

August 7, 2008

Mr. Robert Kennedy
ENSR
2 Technology Park Drive
Westford, MA 01886

Re: Tronox Phase B Investigation Project #04020-023-4312
Submission # R2844650

Dear Mr. Kennedy:

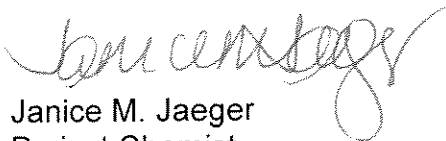
Enclosed is the analytical data report for the above referenced facility. A total of twenty nine samples were received by our laboratory on June 25-28, 2008.

Any problems encountered with this project are addressed in a case narrative section which is presented later in this report.

This report consists of two (2) packages: the sample data package and the sample data summary package. All data presented in this package has been reviewed prior to report submission. If you should have any questions or concerns, please contact me at (585) 288-5380.

Thank you for your continued use of our services.

Sincerely,
COLUMBIA ANALYTICAL SERVICES



Janice M. Jaeger
Project Chemist

Enc.




1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Lab Submission # : R2844650
Project Manager : Janice Jaeger
Reported : 07/29/08

Report Contains a total of 2047 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. 

SDG NARRATIVE

CASE NARRATIVE

COMPANY: ENSR
Tronox Phase B Investigation Project #04030-023-4312
SUBMISSION #: R2844650

ENSR samples were collected on 06/24-27/08 and received at CAS on 06/25-28/08 in good condition. All Hexavalent Chromium samples were filtered in the field and then placed in sample bottles preserved with Ammonium sulfate and Sodium hydroxide.

INORGANICS

Nineteen water samples were analyzed for a site specific list of inorganics. Please see attached data pages for method numbers.

Site specific QC was performed on M-7BB as requested. All MS and Blank spike recoveries were within limits. All RPD's were within limits.

Due to a laboratory error, Specific Conductivity M-44B, M-49AB, FB062408GRAREA1, MC-45B, MC-53B, M-23B, MC-97B, MC-94B, MW-16B, M-5AB, EB062608GW3, M-61B and M-88BB were analyzed outside the recommended holding time of 28 days. The samples were analyzed within 56 days.

Surfactants for M-5AB and M-61B were originally analyzed within 48 hours, but the result was just outside the linear range of the instrument. The samples were repeated outside the recommended holding time of 48 hours at a dilution to confirm the original result. Both sets of data have been reported out.

VOLATILE ORGANICS

Twenty nine water samples were analyzed for a site specific list of Volatiles by Methods 5030/8260B from SW-846.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within QC limits.

Site specific QC was performed on M-77B as requested. All MS/MSD recoveries were within limits except Chloromethane and Dichlorofluoromethane and have been flagged with an "**". All Reference spike recoveries were within Tronox limits except Dichlorodifluoromethane was outside limits high on the 07/01/08, 07/02/08 and 07/03/08 LCS', Acetone and Di-isopropyl ether were outside limits high on the 07/09/08 LCS and 2-Hexanone was outside limits low on the 07/10/08 LCS and have been flagged with an "**". The outliers were within 60-140%.

The Laboratory blanks associated with these samples were free of contamination except the 07/01/08 and 07/02/08 blanks contained a low level hit for Acetone, the 07/02/08, 07/03/08 and 07/09/08 blanks contained a low level hit for tert-butyl alcohol. All affected data has been flagged with a "B".

0003

Various compounds for MW-16B, M-61B, M-88BB, M-67B, M-95B and M-68B have been flagged with an “E” as being outside the calibration range of the instrument. The samples were repeated at dilutions and both sets of data have been reported out.

All samples were analyzed within required holding times.

No other analytical or QC problems were encountered.

SEMIVOLATILE ORGANICS

Nineteen water samples were analyzed for a site specific list of Semivolatiles by method 8270C low level from SW-846.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits except M-23B, MC-94B and M-57AB. The samples were repeated and again the internal standards were outside limits. All outlying internal standards have been flagged with an “*”.

All surrogate standard recoveries were within limits.

Site specific QC was performed on M-77B as requested. Various MS/MSD recoveries were outside limits. Various Blank spike/Blank spike duplicate recoveries were outside limits. At least one of the recoveries was within 10-150% except for Butyl benzyl phthalate and Di-n-butyl phthalate on the 06/30/08 LCS/LCSD. MC-53B is possibly biased high for Butyl benzyl phthalate and MC-97B is possibly biased high for Di-n-butylphthalate. All RPD's were within limits except the Di-n-butylphthalate RPD for the MS/MSD and the Pyridine RPD for the LCS/LCSD's. All outlying QC has been flagged with an “*”.

The Laboratory Blanks associated with these analyses were free of contamination except the 06/30/08 blank contained low level hits for Butyl benzyl phthalate, Di-n-butylphthalate, Diethylphthalate, bis(2-ethylhexyl)phthalate and Naphthalene. All affected data has been flagged with a “B”.

All samples were extracted and analyzed within holding times.

No other analytical or QC problems were encountered.

PESTICIDES

Nineteen water samples were analyzed for a site specific list of Pesticides by method 8081 from SW-846.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within Tronox limits except EB062608GW3H-48B and the 06/25/08 Method blank and have been flagged with an “*”. The samples were within CAS limits. All surrogates were diluted out for MC-45BBDL.

Site specific QC was performed on M-7BB as requested. All MS/MSD recoveries were within limits. All Blank spike/Blank spike duplicate recoveries were within limits. All RPD's were within limits.

0004

Various compounds for MC-45B, MC-53B, MC-97B, MC-94B, MW-16B, M-5AB have been flagged with an “E” as being outside the calibration range of the instrument. The samples were repeated at dilutions and both sets of data have been reported out.

The Laboratory Blanks associated with these analyses were free of contamination.

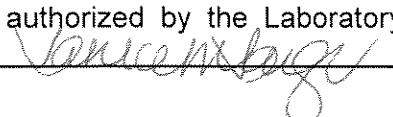
All samples were extracted and analyzed within required holding times

No other analytical or QC problems were encountered.

PERCHLORATE, CHLORATE & METALS

Water samples were subcontracted to CAS-Kelso for Chlorate, Perchlorate and Metals analysis. Their complete data package has been included.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package have by authorized by the Laboratory Manager or his designee, as verified by the following signature. _____



CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG#: M-44B
 SUBMISSION R2844650
 CLIENT: ENSR International
 CLIENT REP: Janice Jaeger
 PROJECT: TRONOX PHASE B INVESTIGATION

BATCH COMPLETE: yes
 DISKETTE REQUESTED: Y X N
 DATE: 6/30/08
 CUSTODY SEAL: PRESENT/ABSENT:
 CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
 DATE DUE: 7/17/08
 PROTOCOL SW846
 SHIPPING No.:

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS
1112065	M-44B	WATER	8260, 8270, 8081, WET, PH	6/24/2008	6/25/2008			
1112066	M-49AB H-49AB	WATER	8260, 8270, 8081, WET, PH	6/24/2008	6/25/2008			
1112067	FB062408GWAREA1	WATER	8260, 8270, 8081, WET, PH	6/24/2008	6/25/2008			
1112069	TRIP BLANK	WATER	8260	6/24/2008	6/25/2008			
1112070	TRIP BLANK	WATER	8260	6/24/2008	6/25/2008			
1112486	MC-45B	WATER	8260, 8270, 8081, WET, PH	6/25/2008	6/26/2008			
1112487	MC-53B	WATER	8260, 8270, 8081, WET, PH	6/25/2008	6/26/2008			
1112488	M-23B	WATER	8260, 8270, 8081, WET, PH	6/25/2008	6/26/2008			
1112489	MC-97B	WATER	8260, 8270, 8081, WET, PH	6/25/2008	6/26/2008			
1112490	TRIP BLANK	WATER	8260	6/25/2008	6/26/2008			
1112491	TRIP BLANK	WATER	8260	6/25/2008	6/26/2008			
1112809	MC-94B	WATER	8260, 8270, 8081, WET, PH	6/25/2008	6/27/2008			
1112810	MW-16B	WATER	8260, 8270, 8081, WET, PH	6/26/2008	6/27/2008			
1112811	M-5AB	WATER	8260, 8270, 8081, WET, PH	6/26/2008	6/27/2008			
1112812	EB062608GW3	WATER	8260, 8270, 8081, WET, PH	6/26/2008	6/27/2008			
1112813	TRIP BLANK	WATER	8260	6/25/2008	6/27/2008			
1112871	M-61B	WATER	8260, 8270, 8081, WET, PH	6/26/2008	6/27/2008			
1112872	M-88BB	WATER	8260, 8270, 8081, WET, PH	6/26/2008	6/27/2008			
1112874QC	M-7BB	WATER	8260, 8270, 8081, WET, PH	6/26/2008	6/27/2008			
1112876	TRIP BLANK	WATER	8260	6/26/2008	6/27/2008			
1112877	TRIP BLANK	WATER	8260	6/26/2008	6/27/2008			
1113426	M-67B	WATER	8260, 8270, 8081, WET, PH	6/27/2008	6/28/2008			
1113427	M-6AB	WATER	8260, 8270, 8081, WET, PH	6/27/2008	6/28/2008			
1113428	M-57AB	WATER	8260, 8270, 8081, WET, PH	6/27/2008	6/28/2008			
1113429	M-95B	WATER	8260, 8270, 8081, WET, PH	6/27/2008	6/28/2008			
1113430	M-68B	WATER	8260, 8270, 8081, WET, PH	6/27/2008	6/28/2008			
1113431	TRIP BLANK	WATER	8260	6/27/2008	6/28/2008			
1113432	TB062708GW3	WATER	8260	6/27/2008	6/28/2008			
1113433	TRIP BLANK	WATER	8260	6/27/2008	6/28/2008			





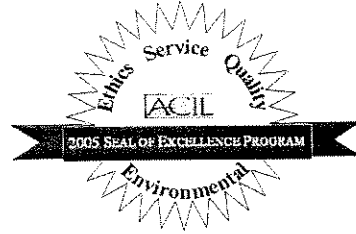
ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL. This flag is also used for DoD instead of "P" as indicated below.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 40% (25% for CLP) difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P" ("J" for DoD).
- Q - for DoD only – indicates a pesticide/Aroclor target is not confirmed. This flag is used when there is $\geq 100\%$ difference for the detected concentrations between the two GC columns.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292



INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). This qualifier may also be used to indicate that there was contamination above the reporting limit in the associated blank. See Narrative for details.
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because the serial dilution did not meet criteria.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "AF" for Automated Cold Vapor Atomic Fluorescence Spectrometry
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

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NELAP Accredited
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Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID # 68-786
Rhode Island ID # 158
West Virginia ID # 292

CHAINS OF CUSTODY

INTERNAL CHAINS



Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140 Project Manager Robert Kennedy Phone: 978-589-3324 Fax: 978-589-3100 Email Address for Result Reporting: rkennedy@ensr.aecom.com		Project Name Tronox Phase B Investigation Project Number: 04020-023-432 P.O. # / Billing Information		Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		CAS Project No.					
Analysis Method and/or Analytes		Preservative Code		Preservative Key							
(216) Hexavalent Chromium	TPH - diesel-range organics/oil-range Organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH	Remarks		
8	0	1	5	0	0	0	0	0	0		
Sampler (Print & Sign) <i>Robert Pinks RLPK</i>		Date Collected		Time Collected		Matrix		Number of Containers			
Client Sample ID		Laboratory ID Number		Date Collected		Time Collected		Matrix		Number of Containers	
M-44B				6/24/08	0910	W		3			
M-44B				6/24/08	0910	W		1			
M-44B				6/24/08	0910	W	X	1			
M-44B				6/24/08	0910	W	X	1			Alky (total CO ₂ Heos)
M-44B				6/24/08	0910	W	X	1			
M-44B				6/24/08	0910	W	X	1			
M-44B				6/24/08	0910	W	X	1			
M-44B				6/24/08	0910	W	X	1			
M-44B				6/24/08	0910	W	X	1			
M-44B				6/24/08	0910	W	X	3			
Report Tier Levels - please select Tier I (Results/Default if not specified) _____ Tier II (Results + QC) _____ Tier III (Data Validation Package) 10% Surcharge _____ Tier V (client specified) <input checked="" type="checkbox"/>											
Relinquished by: (Signature) <i>Robert Pinks</i>		Date: 6/24/08		Time: 1600		Received by: (Signature) <i>Janice Jaeger</i>		Date: 6/25/08		Time: 145	
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:	
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:	
Project Requirements (MRLs, QAPP) (See Contractual Specifications) Chain of Custody Number: 062408962-1 Cooler / Blank / Ice / No Ice Temperature 0-1 °C											



Water & Soil - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Rochester, NY

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes										Preservative Key	Remarks														
ENSR 2 Technology Park Drive Westford, MA 01886-3140		Tronox Phase B Investigation		Project Number <u>4312</u>		TPH - diesel-range organics/oil-range organics (8015B)		VOCs (8260)		Wet Chemistry (Except chlorate & perchlorate)		Organochlorine Pesticides (OCs)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		0 None									
Project Manager Robert Kennedy		P.O. # / Billing Information		Date Collected		Time Collected		Matrix		Number of Containers		Hexavalent Chromium (218.9)		TPH - diesel-range organics/oil-range organics (8015B)		VOCs (8260)		Wet Chemistry (Except chlorate & perchlorate)		Organochlorine Pesticides (OCs)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		1 HCL	
Phone 978-589-3324		Fax 978-589-3100		Date Collected		Time Collected		Matrix		Number of Containers		Hexavalent Chromium (218.9)		TPH - diesel-range organics/oil-range organics (8015B)		VOCs (8260)		Wet Chemistry (Except chlorate & perchlorate)		Organochlorine Pesticides (OCs)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		2 HNO ₃	
Email Address for Result Reporting rkennedy@ensr.aecom.com		Sampler (Print & Sign) <i>GAREN COOPER/RS</i>		Date Collected		Time Collected		Matrix		Number of Containers		Hexavalent Chromium (218.9)		TPH - diesel-range organics/oil-range organics (8015B)		VOCs (8260)		Wet Chemistry (Except chlorate & perchlorate)		Organochlorine Pesticides (OCs)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		3 H ₂ SO ₄	
Client Sample ID		Laboratory ID Number		Date Collected		Time Collected		Matrix		Number of Containers		Hexavalent Chromium (218.9)		TPH - diesel-range organics/oil-range organics (8015B)		VOCs (8260)		Wet Chemistry (Except chlorate & perchlorate)		Organochlorine Pesticides (OCs)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		4 NaOH	
FB0624086warsen		FB0624086warsen		6/24/08		1200		W		3		X		X		X		X		X		X		X		X		5 various	TDC/H ₂ SO ₄
FB0624086warsen		FB0624086warsen		6/24/08		1200		W		2		X		X		X		X		X		X		X		X		6 Asc Acid	
FB0624086warsen		FB0624086warsen		6/24/08		1200		W		2		X		X		X		X		X		X		X		X		7 Other buffer + NaOH	
FB0624086warsen		FB0624086warsen		6/24/08		1200		W		1		X		X		X		X		X		X		X		X		8	
FB0624086warsen		FB0624086warsen		6/24/08		1200		W		1		X		X		X		X		X		X		X		X			PH/ICE
FB0624086warsen		FB0624086warsen		6/24/08		1200		W		1		X		X		X		X		X		X		X		X			TSS/ICE
FB0624086warsen		FB0624086warsen		6/24/08		1200		W		1		X		X		X		X		X		X		X		X			ALKY/ICE
FB0624086warsen		FB0624086warsen		6/24/08		1200		W		1		X		X		X		X		X		X		X		X			SURFACTANT/ICE
FB0624086warsen		FB0624086warsen		6/24/08		1700		W		1		X		X		X		X		X		X		X		X			TPOY/NH ₃ /ICE
FB0624086warsen		FB0624086warsen		6/24/08		1200		W		1		X		X		X		X		X		X		X		X			CN/NaOH
FB0624086warsen		FB0624086warsen		6/24/08		1200		W		1		X		X		X		X		X		X		X		X			C ₂ NH ₃ TPY/ICE

Project Requirements (MRLs, QAPP)

Report Tier Levels - please select
 Tier I - (Results/Default if not specified) _____ MRL required: Yes
 Tier II (Results + QC) _____ MDL / PQL / J required: Yes
 Tier III (Data Validation Package) 10% Surcharge _____ EDD required: Yes
 Tier V (client specified) _____ Type: ENSR-specific

Chain of Custody Number: 0624086w1-1

Relinquished by: (Signature) *[Signature]* Date: 6/24/08 Time: 1400

Relinquished by: (Signature) *[Signature]* Date: 6/25/08 Time: 9:45

Relinquished by: (Signature) _____ Date: _____ Time: _____

Cooler / Blank / Ice / No Ice

Temperature 0-1 °C



Water & Soil - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Rochester, NY

CAS Project No. _____

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes										CAS Project No.	CAS Contact:					
ENSR 2 Technology Park Drive Westford, MA 01886-3140		Tronox Phase B Investigation Project Number: <u>04020-023-4312</u> P.O. # / Billing Information		Preservative Code											Janice Jaeger					
Project Manager		Sampler (Print & Sign)		Hexavalent Chromium (218)		TPH - diesel-range organics/oil-range organics (8015B)		VOCs (8260)		Wet Chemistry (Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		Preservative Key
Robert Kennedy		<u>GALEN COOPER / SE</u>		(18)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		0 None
Phone		Date Collected		(19)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		1 HCL
978-589-3324		6/24/08 0900		(20)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		2 HNO3
978-589-3100		6/20/09 1335		(21)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		3 H2SO4
Email Address for Result Reporting		Time Collected		(22)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		4 NaOH
rkennedy@ensr.aecom.com		6/24/08 1200		(23)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		5 various
Laboratory ID Number		Matrix		(24)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		6 Asc Acid
17-49A13		GW		(25)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		7 Other
TRIP BLANK		W		(26)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		8 buffer + NaOH
FB06240801		W		(27)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		Remarks
				(28)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(29)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(30)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(31)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(32)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(33)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(34)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(35)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(36)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(37)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(38)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(39)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(40)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(41)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(42)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(43)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(44)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(45)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(46)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(47)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(48)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(49)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(50)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(51)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(52)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(53)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(54)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(55)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(56)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(57)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(58)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(59)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(60)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(61)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(62)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(63)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		
				(64)		(8015B)		(8260)		(Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		

Cooler Receipt And Preservation Check Form

Project/Client ENSR Submission Number RA-44656

Cooler received on 6/25/08 by: Altt COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
 2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
 3. Did all bottles arrive in good condition (unbroken)? YES NO
 4. Did any VOA vials have significant* air bubbles? YES NO N/A
 5. Were **Ice** or **Ice packs** present? YES NO
 6. Where did the bottles originate? CAS/ROC, CLIENT
 7. Temperature of cooler(s) upon receipt: 1° 1° 0° _____
- Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
- If No, Explain Below No No No No No

Date/Time Temperatures Taken: 6/25/08 9:48

Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: JMS 6/25/08

Cooler Breakdown: Date: 6/25/08 by: Altt

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
 2. Did all bottle labels and tags agree with custody papers? YES NO
 3. Were correct containers used for the tests indicated? YES NO
 4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A
- Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH	✓		WC85072G	11/10				
≤2	HNO ₃								
≤2	H ₂ SO ₄	✓		WC85132D	4/09				
Residual Chlorine (-)	For TCN and Phenol	-		If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*	7647-01-0	4/09				

Yes = All samples OK
 No = Samples were preserved at lab as listed
 PM OK to Adjust: _____

Bottle lot numbers: 8-116-002, 031199, 050508-2, 042808-2, 050508-1

Other Comments: _____

PC Secondary Review: JMS 6/26/08

*significant air bubbles are greater than 5-6 mm



Water & Soil - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Rochester, NY

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes										Preservative Key	Remarks												
ENSR 2 Technology Park Drive Westford, MA 01886-3140		Tronox Phase B Investigation Project Number: 04020-023-4312		Project Number: 04020-023-4312		P.O. # / Billing Information		Project Number: 04020-023-4312		P.O. # / Billing Information		TPH - diesel-range organics/oil-range Organics (8015B)		VOCs (8260)		Wet Chemistry (Except chlorate & perchlorate)		Organochlorine Pesticides (OCPs) (8081A)		Semi-Volatile Organics (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH	
Project Manager Robert Kennedy		Phone 978-589-3324		Fax 978-589-3100		Sampler (Print & Sign) ROBERT PINKS Robert P. P.		Laboratory ID Number		Date Collected		Time Collected		Matrix		Number of Containers											
Email Address for Result Reporting rkennedy@ensr.aecom.com																											
MC-45B			6/25/08	1300	W																						
MC-45B			6/25/08	1300	W																						
MC-45B			6/25/08	1300	W																						
MC-45B			6/25/08	1300	W																						
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MC-45B			6/25/08	1300	W																						

Cooler Receipt And Preservation Check Form

Project/Client ENSR Submission Number 22844650

Cooler received on 6/26/08 by: CMC COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
 2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
 3. Did all bottles arrive in good condition (unbroken)? YES NO
 4. Did any VOA vials have significant* air bubbles? YES NO N/A
 5. Were Ice or Ice packs present? YES NO
 6. Where did the bottles originate? CAS/ROC CLIENT
 7. Temperature of cooler(s) upon receipt: 30C 30C 30C 30C 30C
- Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
No No No No No

If No, Explain Below

Date/Time Temperatures Taken: 6/26/08 1015

Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: JMS 6/26/08

Cooler Breakdown: Date: 6/26/08 by: HP

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

pH	Reagent	YES		NO		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH	<input checked="" type="checkbox"/>				<u>WLS011C</u>	<u>11/09</u>				
≤2	HNO ₃										
≤2	H ₂ SO ₄	<input checked="" type="checkbox"/>				<u>WC83132D</u>	<u>04/09</u>				
Residual Chlorine (-)	For TCN and Phenol					If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-								
	Zn Aceta	-	-								
	HCl	*	*			<u>7647-01-0</u>	<u>05/09</u>				

Yes = All samples OK
 No = Samples were preserved at lab as listed
 PM OK to Adjust: _____

*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet

Bottle lot numbers: 030360, BDB216840, 051908-2, 050508-1
 Other Comments: _____

PC Secondary Review: JMS 6/30/08

*significant air bubbles are greater than 5-6 mm



Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No. _____

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes										CAS Project No.						
ENSR 2 Technology Park Drive Westford, MA 01886-3140		Tronox Phase B Investigation												Janice Jaeger						
Project Manager Robert Kennedy		Project Number: 04020-023-4213												Preservative Key						
Phone 978-589-3324		P.O. # / Billing Information												Preservative Key						
Fax 978-589-3100		Sampler (Print & Sign)												Preservative Key						
Email Address for Result Reporting rkennedy@ensr.aecom.com		Date Collected		Time Collected		Matrix		Number of Containers												Remarks
		09/25/08		1431		water		3												
		09/25/08		1431		water		2												
		09/25/08		1431		water		1												0 PKI (tot CO2, HCO3)
		09/25/08		1431		water		2												buffer + NaOH
		09/25/08		1431		water		1												3 HNO3 / TPO4
		09/25/08		1431		water		1												4 tot CN
		09/25/08		1431		water		1												0 TSS
		09/25/08		1431		water		3												3 TOC
		09/25/08		1431		water		1												0 PH

Report Tier Levels - please select
 Tier I - (Results/Default if not specified) _____
 Tier II (Results + QC) _____
 Tier III (Data Validation Package) 10% Surcharge _____
 Tier V (client specified) X

MRL required: Yes
 MDL / PQL / J required: Yes

EDD required: Yes
 Type: ENSR-specific

Chain of Custody Number:
 062508GW3-1

Cooler / Blank / Ice / No Ice
 Temperature 2-5 °C

Relinquished by: (Signature) _____ Date: 6/24/08 Time: 1600

Relinquished by: (Signature) _____ Date: _____ Time: _____

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Date: 6/27/08 Time: 8:25

Received by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Date: _____ Time: _____



Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

Company Name & Address (Reporting Information)
 ENSR
 2 Technology Park Drive
 Westford, MA 01886-3140

Project Name
 Tronox Phase B Investigation

Project Number: 04020-023-4213

P.O. # / Billing Information

Project Manager
 Robert Kennedy

Phone
 978-589-3324

Fax
 978-589-3100

Email Address for Result Reporting
 rkennedy@ensr.aecom.com

Sampler (Print & Sign)

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Hexavalent Chromium (218)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate) (8081A)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	Remarks
MN-16B		6/26/08	14:05	WATER	2				X					
MN-16B		6/26/08	14:05	WATER	1									
MN-16B		6/26/08	14:05	WATER	2				X					0 ALK (HOT, GELATINOUS)
MN-16B		6/26/08	14:05	WATER	1	X								BUFF + NaOH
MN-16B		6/26/08	14:05	WATER	1			X						3 HNO3 / TFC
MN-16B		6/26/08	14:05	WATER	1			X						4 PT ON
MN-16B		6/26/08	14:05	WATER	1			X						0 TSS
MN-16B		6/26/08	14:05	WATER	1			X						0 PH
MN-16B		6/26/08	14:05	WATER	1			X						0 CATIONS, NOISE, etc.
MN-16B		6/26/08	14:05	WATER	1			X						0 MSA / (GUF EXTRACT)

Analysis Method and/or Analytes

Preservative Code

Preservative Key

0 None
 1 HCL
 2 HNO3
 3 H2SO4
 4 NaOH
 5 various
 6 Asc Acid
 7 Other
 8 buffer + NaOH

CAS Contact: Janice Jaeger

Remarks

Project Requirements (MRLs, QAPP)

(See Contractual Specifications)

Chain of Custody Number: 062008GNS-1

Cooler / Blank / Ice / No Ice

Temperature 2-5 °C

Report Tier Levels - please select

Tier I - (Results/Default if not specified) _____

Tier II (Results + QC) _____

Tier III (Data Validation Package) 10% Surcharge _____

Tier V (client specified) X

MRL required: Yes _____

MDL / PQL / J required: Yes _____

EDD required: Yes _____

ENSR-specific Type: _____

Relinquished by: (Signature) [Signature] Date: 6/26/08 Time: 8:25

Relinquished by: (Signature) [Signature] Date: _____ Time: _____

Relinquished by: (Signature) _____ Date: _____ Time: _____

Cooler Receipt And Preservation Check Form

Project/Client ENSR Submission Number 208-44650

Cooler received on 6-27-08 by: KE COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant* air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 5° 2° _____

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
 If No, Explain Below No No No No No

Date/Time Temperatures Taken: 6-27-08 @ 8:37

Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: JMS 6/27/08

Cooler Breakdown: Date: 6/27/08 by: UM

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

pH	Reagent			Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
		YES	NO						
≥12	NaOH	<u>X</u>		<u>W080706</u> <u>W080711C</u>	<u>1110</u> <u>1109</u>				
≤2	HNO ₃								
≤2	H ₂ SO ₄	<u>X</u>		<u>W080732D</u>	<u>05/09</u>				
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-						
	Zn Aceta	-	-						
	HCl	*	*	<u>C08A13</u>	<u>05/09</u>				

Yes = All samples OK
 No = Samples were preserved at lab as listed
 PM OK to Adjust: _____

*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet

Bottle lot numbers: 050508-1, 050508-2, 042898-2, 031199
 Other Comments: 8-037-002

PC Secondary Review: JMS 6/30/08

*significant air bubbles are greater than 5-6 mm



Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140 Project Manager Robert Kennedy Phone 978-589-3324 Fax 978-589-3100 Email Address for Result Reporting rkennedy@ensr.aecom.com		Project Name Tronox Phase B Investigation Project Number: <u>04020-023-4312</u> P.O. # / Billing Information		Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		CAS Project No.
Sampler (Print & Sign) <u>ROBERT PWD Robert PWB</u>		Analysis Method and/or Analytes Preservative Code 8 0 1 5 0 0 0 0 0 0		CAS Contact: Janice Jaeger		Preservative Key 0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH
Laboratory ID Number Client Sample ID Date Collected Time Collected Matrix Number of Containers		Hexavalent Chromium (218.9) TPH - diesel-range organics/oil-range organics (8015B) VOCs (8260) Wet Chemistry (Except chlorate & perchlorate) Organochlorine Pesticides (OCPs) (8081A) Semi-Volatile Organics (8270C) Formaldehyde (8315A) TPH - gasoline-range organics (8015B)		Remarks MS/MSD Preservative Key 1 0 0 0 0 0 3 3 4 0 3		
Report Tier Levels - please select Tier I - (Results/Default if not specified) _____ Tier II (Results + QC) _____ Tier III (Data Validation Package) 10% Surcharge _____ Tier V (client specified) <u>X</u>		MRL required: Yes _____ MDL / PQL / J required: Yes _____ EDD required: Yes _____ Type: ENSR-specific		Project Requirements (MRLs, QAPP)		
Relinquished by: (Signature) <u>Robert Kennedy</u>		Received by: (Signature) <u>Robert Kennedy</u>		Chain of Custody Number: <u>02608962-1</u>		
Relinquished by: (Signature)		Received by: (Signature)		Cooler / Blank / Ice / No Ice		
Relinquished by: (Signature)		Received by: (Signature)		Temperature <u>1-5</u> °C		



Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

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 Phone (585) 288-5380

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No. _____

Company Name & Address (Reporting Information)
 ENSR
 2 Technology Park Drive
 Westford, MA 01886-3140

Project Name
 Tronox Phase B Investigation

Project Manager
 Robert Kennedy

Phone
 978-589-3324

Fax
 978-589-3100

Email Address for Result Reporting
 rkennedy@ensr.aecom.com

Sampler (Print & Sign)
 Robert Pius Bart Pih

P.O. # / Billing Information

Project Number:
 04020-023-432

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Preservative Code								Remarks
						8	0	1	5	0	0	0	0	
M-7BB		6/26/03	0920	W	3	Hexavalent Chromium (218)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	PH
M-7BB		6/26/03	0920	W	3				X					SI, NO 3, NH 2, SO 4, P, TDS
M-7BB		6/26/03	0920	W	3				X					MBA
TRIP BLANK		6/25/03	1400	W	3			X						

Report Tier Levels - please select
 Tier I - (Results/Default if not specified) _____
 Tier II (Results + QC) _____
 Tier III (Data Validation Package) 10% Surcharge _____
 Tier V (client specified) X

MRL required: Yes _____
 MDL / PQL / J required: Yes _____
 EDD required: Yes _____
 Type: ENSR-specific

Relinquished by: (Signature)
 Robert Pius Bart Pih

Relinquished by: (Signature)
 Robert Pius Bart Pih

Relinquished by: (Signature)
 Robert Pius Bart Pih

Received by: (Signature)
 Robert Pius Bart Pih

Received by: (Signature)
 Robert Pius Bart Pih

Received by: (Signature)
 Robert Pius Bart Pih

Date: 6/26/03
Time: 1500

Date: 6/27/03
Time: 9:30

Date: _____
Time: _____

Date: _____
Time: _____

Chain of Custody Number:
 062608GW2-1

Project Requirements (MRLs, QAPP)

(See Contractual Specifications)

Cooler / Blank / Ice / No Ice

Temperature 15 °C



Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140 Project Manager Robert Kennedy Phone: 978-589-3324 Fax: 978-589-3100 Email Address for Result Reporting: rkennedy@ensr.aecom.com		Project Name Tronox Phase B Investigation Project Number: 04020-023-4213 P.O. # / Billing Information		Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		CAS Project No.
Analysis Method and/or Analytes				CAS Contact: Janice Jaeger		Preservative Key 0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH
Project Number: 04020-023-4213		P.O. # / Billing Information		CAS Project No.		
Project Name: Tronox Phase B Investigation		P.O. # / Billing Information		CAS Contact: Janice Jaeger		
Project Number: 04020-023-4213		P.O. # / Billing Information		CAS Project No.		
Project Name: Tronox Phase B Investigation		P.O. # / Billing Information		CAS Contact: Janice Jaeger		
Project Number: 04020-023-4213		P.O. # / Billing Information		CAS Project No.		
Project Name: Tronox Phase B Investigation		P.O. # / Billing Information		CAS Contact: Janice Jaeger		
Project Number: 04020-023-4213		P.O. # / Billing Information		CAS Project No.		
Project Name: Tronox Phase B Investigation		P.O. # / Billing Information		CAS Contact: Janice Jaeger		
Project Number: 04020-023-4213		P.O. # / Billing Information		CAS Project No.		

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Preservative Code								Remarks										
						Hexavalent Chromium (218.6)	TPH - diesel-range organics/oil-range Organics (6015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate) (8081A)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)											
M-88B3		6/26/08	0800	GW	3			X																
TRAP BLANK		6/25/08	1400	W	3																			
M-88B3		6/28/08	0800	GW	2				X															
M-88B3		6/26/08	0800	GW	2					X														
M-88B3		6/18/08	0800	GW	1																			
M-88B3		6/28/08	0800	GW	3																			
M-88B3		6/28/08	0800	GW	1				X															
M-88B3		6/28/08	0800	GW	1				X															
M-88B3		6/28/08	0800	GW	1				X															
M-88B3		6/28/08	0800	GW	1				X															

Project Requirements (MRLs, QAPP)
 (See Contractual Specifications)
 Chain of Custody Number: 0626086w1-1
 Cooler / Blank / Ice / No Ice
 Temperature 1-5 °C

Report Tier Levels - please select
 Tier I - (Results/Default if not specified) _____
 Tier II (Results + QC) _____
 Tier III (Data Validation Package) 10% Surcharge _____
 Tier V (client specified) X _____

MRL required: Yes
 MDL / PQL / J required: Yes
 EDD required: Yes
 Type: ENSR-specific

Relinquished by: (Signature) _____ Date: 6/26/08 Time: 1330
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____



Water & Soil - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Rochester, NY

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes										Preservative Key	Remarks															
ENSR 2 Technology Park Drive Westford, MA 01886-3140		Tronox Phase B Investigation Project Number: 04020-023-432		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information								
Project Manager Robert Kennedy		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information						
Phone 978-589-3324		Fax 978-589-3100		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information				
Email Address for Result Reporting rkennedy@ensr.aecom.com		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432		P.O. # / Billing Information		Project Number: 04020-023-432				
Laboratory ID Number		Date Collected		Time Collected		Matrix		Number of Containers		Hexavalent Chromium (216)		TPH - diesel-range organics/oil-range organics (8015B)		VOCs (8260)		Wet Chemistry (Except chlorate & perchlorate) (8081A)		Organochlorine Pesticides (OCPs) (8270C)		Formaldehyde (8315A)		TPH - gasoline-range organics (8015B)		Preservative Key		Remarks				
M-788		6/24/08	0920	W	3																									
M-788		6/24/08	0920	W	3																									
M-788		6/24/08	0920	W	3																									
TRIP BLANK		6/25/08	1400	W	3																									

CAS Contact:
Janice Jaeger

Project Requirements (MRLs, QAPP)
 (See Contractual Specifications)
 Chain of Custody Number:
 062608622-1
 Cooler / Blank / Ice / No Ice
 Temperature 1-5 °C

Report Tier Levels - please select
 Tier I - (Results/Default if not specified) _____
 Tier II (Results + QC) _____
 Tier III (Data Validation Package) 10% Surcharge _____
 Tier V (client specified) X _____
 MRL required: Yes _____
 MDL / PQL / J required: Yes _____
 EDD required: Yes _____
 Type: ENSR-specific _____

Relinquished by: (Signature) <i>Robert Kennedy</i>	Date: 6/24/08	Time: 1500	Received by: (Signature) <i>Janice Jaeger</i>	Date: 6/27/08	Time: 0930
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Water & Soil - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Rochester, NY

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

CAS Contact:
 Janice Jaeger

Project Name
 Tronox Phase B Investigation

Project Number:
 04020-023-4312

P.O. # / Billing Information

Sampler (Print & Sign)
 ROBERT PINDO Robert Pindo

Laboratory ID Number

Date Collected

Time Collected

Matrix

Number of Containers

Client Sample ID

Hexavalent Chromium (218B)

TPH - diesel-range organics/oil-range organics (8015B)

VOCs (8260)

Wet Chemistry (Except chlorate & perchlorate) (8081A)

Organochlorine Pesticides (OCPs)

Semi-Volatile Organics (8270C)

Formaldehyde (8315A)

TPH - gasoline-range organics (8015B)

Preservative Code

Preservative Key

Remarks

Report Tier Levels - please select

Tier I - (Results/Default if not specified)

Tier II (Results + QC)

Tier III (Data Validation Package) 10% Surcharge

Tier V (client specified) X

Company Name & Address (Reporting Information)

ENSUR

2 Technology Park Drive
 Westford, MA 01886-3140

Project Manager
 Robert Kennedy

Phone
 978-589-3324

Fax
 978-589-3100

Email Address for Result Reporting
 rkennedy@ensur.aecom.com

Laboratory ID Number

Date Collected

Time Collected

Matrix

Number of Containers

Client Sample ID

Hexavalent Chromium (218B)

TPH - diesel-range organics/oil-range organics (8015B)

VOCs (8260)

Wet Chemistry (Except chlorate & perchlorate) (8081A)

Organochlorine Pesticides (OCPs)

Semi-Volatile Organics (8270C)

Formaldehyde (8315A)

TPH - gasoline-range organics (8015B)

Preservative Code

Preservative Key

Remarks

Report Tier Levels - please select

Tier I - (Results/Default if not specified)

Tier II (Results + QC)

Tier III (Data Validation Package) 10% Surcharge

Tier V (client specified) X

Company Name & Address (Reporting Information)

ENSUR

2 Technology Park Drive
 Westford, MA 01886-3140

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 rkennedy@ensur.aecom.com

Laboratory ID Number

Date Collected

Time Collected

Matrix

Number of Containers

Client Sample ID

Hexavalent Chromium (218B)

TPH - diesel-range organics/oil-range organics (8015B)

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Preservative Code

Preservative Key

Remarks

Report Tier Levels - please select

Tier I - (Results/Default if not specified)

Tier II (Results + QC)

Tier III (Data Validation Package) 10% Surcharge

Tier V (client specified) X

Company Name & Address (Reporting Information)

ENSUR

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 Westford, MA 01886-3140

Project Manager
 Robert Kennedy

Phone
 978-589-3324

Fax
 978-589-3100

Email Address for Result Reporting
 rkennedy@ensur.aecom.com

Laboratory ID Number

Date Collected

Time Collected

Matrix

Number of Containers

Client Sample ID

Hexavalent Chromium (218B)

TPH - diesel-range organics/oil-range organics (8015B)

VOCs (8260)

Wet Chemistry (Except chlorate & perchlorate) (8081A)

Organochlorine Pesticides (OCPs)

Semi-Volatile Organics (8270C)

Formaldehyde (8315A)

TPH - gasoline-range organics (8015B)

Preservative Code

Preservative Key

Remarks

Report Tier Levels - please select

Tier I - (Results/Default if not specified)

Tier II (Results + QC)

Tier III (Data Validation Package) 10% Surcharge

Tier V (client specified) X

Company Name & Address (Reporting Information)

ENSUR

2 Technology Park Drive
 Westford, MA 01886-3140

Project Manager
 Robert Kennedy

Phone
 978-589-3324

Fax
 978-589-3100

Email Address for Result Reporting
 rkennedy@ensur.aecom.com

Laboratory ID Number

Date Collected

Time Collected

Matrix

Number of Containers

Client Sample ID

Hexavalent Chromium (218B)

TPH - diesel-range organics/oil-range organics (8015B)

VOCs (8260)

Wet Chemistry (Except chlorate & perchlorate) (8081A)

Organochlorine Pesticides (OCPs)

Semi-Volatile Organics (8270C)

Formaldehyde (8315A)

TPH - gasoline-range organics (8015B)

Preservative Code

Preservative Key

Remarks

Report Tier Levels - please select

Tier I - (Results/Default if not specified)

Tier II (Results + QC)

Tier III (Data Validation Package) 10% Surcharge

Tier V (client specified) X

Company Name & Address (Reporting Information)

ENSUR

2 Technology Park Drive
 Westford, MA 01886-3140

Project Manager
 Robert Kennedy

Phone
 978-589-3324

Fax
 978-589-3100

Email Address for Result Reporting
 rkennedy@ensur.aecom.com

Laboratory ID Number

Date Collected

Time Collected

Matrix

Number of Containers

Client Sample ID

Hexavalent Chromium (218B)

TPH - diesel-range organics/oil-range organics (8015B)

VOCs (8260)

Wet Chemistry (Except chlorate & perchlorate) (8081A)

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Semi-Volatile Organics (8270C)

Formaldehyde (8315A)

TPH - gasoline-range organics (8015B)

Preservative Code

Preservative Key

Remarks

Report Tier Levels - please select

Tier I - (Results/Default if not specified)

Tier II (Results + QC)

Tier III (Data Validation Package) 10% Surcharge

Tier V (client specified) X

Company Name & Address (Reporting Information)

ENSUR

2 Technology Park Drive
 Westford, MA 01886-3140

Project Manager
 Robert Kennedy

Phone
 978-589-3324

Fax
 978-589-3100

Email Address for Result Reporting
 rkennedy@ensur.aecom.com

Laboratory ID Number

Date Collected

Time Collected

Matrix

Number of Containers

Client Sample ID

Hexavalent Chromium (218B)

TPH - diesel-range organics/oil-range organics (8015B)

VOCs (8260)

Wet Chemistry (Except chlorate & perchlorate) (8081A)

Organochlorine Pesticides (OCPs)

Semi-Volatile Organics (8270C)

Formaldehyde (8315A)

TPH - gasoline-range organics (8015B)

Preservative Code

Preservative Key

Remarks

Report Tier Levels - please select

Tier I - (Results/Default if not specified)

Tier II (Results + QC)

Tier III (Data Validation Package) 10% Surcharge

Tier V (client specified) X

Company Name & Address (Reporting Information)

ENSUR

2 Technology Park Drive
 Westford, MA 01886-3140

Project Manager
 Robert Kennedy

Phone
 978-589-3324

Fax
 978-589-3100

Email Address for Result Reporting
 rkennedy@ensur.aecom.com

Laboratory ID Number

Date Collected

Time Collected

Matrix

Number of Containers

Client Sample ID

Hexavalent Chromium (218B)

TPH - diesel-range organics/oil-range organics (8015B)

VOCs (8260)

Wet Chemistry (Except chlorate & perchlorate) (8081A)

Organochlorine Pesticides (OCPs)

Semi-Volatile Organics (8270C)

Formaldehyde (8315A)

TPH - gasoline-range organics (8015B)

Preservative Code

Preservative Key

Remarks

Report Tier Levels - please select

Tier I - (Results/Default if not specified)

Tier II (Results + QC)

Tier III (Data Validation Package) 10% Surcharge

Tier V (client specified) X

Company Name & Address (Reporting Information)

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Date Collected

Time Collected

Matrix

Number of Containers

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Formaldehyde (8315A)

TPH - gasoline-range organics (8015B)

Preservative Code

Preservative Key

Remarks

Report Tier Levels - please select

Tier I - (Results/Default if not specified)

Tier II (Results + QC)

Tier III (Data Validation Package) 10% Surcharge

Tier V (client specified) X

Company Name & Address (Reporting Information)

ENSUR

2 Technology Park Drive
 Westford, MA 01886-3140

Project Manager
 Robert Kennedy

Phone
 978-589-3324

Fax
 978-589-3100

Email Address for Result Reporting
 rkennedy@ensur.aecom.com

Laboratory ID Number

Date Collected

Cooler Receipt And Preservation Check Form

Project/Client ENSR Submission Number 208-44650

Cooler received on 6/27/08 by: IP COURIER: CAS UPS ~~FEDEX~~ VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES ~~NO~~ ONLY A FEW
 2. Were custody papers properly filled out (ink, signed, etc.)? ~~YES~~ NO
 3. Did all bottles arrive in good condition (unbroken)? ~~YES~~ NO
 4. Did any VOA vials have significant* air bubbles? YES ~~NO~~ N/A
 5. Were Ice or Ice packs present? ~~YES~~ NO
 6. Where did the bottles originate? ~~CAS/ROC~~ CLIENT
 7. Temperature of cooler(s) upon receipt: 5° SB 4° TB 5° TB 1° SB 5° SB 6° TB 4° TB
- Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes Yes Yes
- If No, Explain Below: No No No No No No No

Date/Time Temperatures Taken: 6/27/08 9:35
 Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: SMJ 6/26/08

Cooler Breakdown: Date: 6/27/08 by: SMJ

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
 2. Did all bottle labels and tags agree with custody papers? YES NO
 3. Were correct containers used for the tests indicated? YES NO
 4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A
- Explain any discrepancies: _____

pH	Reagent	YES		NO		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH	<input checked="" type="checkbox"/>				<u>W2507AG</u> <u>W25011C</u>	<u>11/0</u> <u>11/0</u>				
≤2	HNO ₃										
≤2	H ₂ SO ₄	<input checked="" type="checkbox"/>				<u>W25032D</u>	<u>04/09</u>				
Residual Chlorine (-)	For TCN and Phenol					If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-					*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-								
	HCl	*	*			<u>CO2A13</u>	<u>05/07</u>				

Yes = All samples OK
 No = Samples were preserved at lab as listed
 PM OK to Adjust: _____

Bottle lot numbers: 050508-1, 050508-2, 042898-2, 031199
 Other Comments: 8-037-002

PC Secondary Review: SMJ 6/26/08

*significant air bubbles are greater than 5-6 mm



Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140		Project Name Tronox Phase B Investigation Project Number: 04020-023- <u>4312</u>		CAS Project No. 	
Project Manager Robert Kennedy Phone: <u>978-589-3324</u> Fax: <u>978-589-3100</u>		P.O. # / Billing Information 		CAS Contact: Janice Jaeger	
Email Address for Result Reporting rkennedy@ensr.aecom.com		Sampler (Print & Sign) <u>GAVEN WOOTER</u>		Analysis Method and/or Analytes Preservative Code 8 0 1 5 0 0 0 0	
Client Sample ID M-67B M-67B TRIP BLANK M-67B M-67B M-67B M-67B M-67B M-67B M-67B	Laboratory ID Number 	Date Collected 6/27/08 0700 6/27/08 0700 6/27/08 1900 6/27/08 0700 6/27/08 0700 6/27/08 0700 6/27/08 0700 6/27/08 0700 6/27/08 0700 6/27/08 0700	Time Collected 	Matrix GW GW W GW GW GW GW GW GW GW	Number of Containers 3 2 3 2 1 3 1 1 1 1
Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		Preservative Key 0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH		Remarks TOC/HASD4 ALKY/ICE TSS/ICE Ph/ICE N3A/ICE CYANIDE/NADH	
Report Tier Levels - please select Tier I - (Results/Default if not specified) _____ Tier II (Results + QC) _____ Tier III (Data Validation Package) 10% Surcharge _____ Tier V (client specified) <u>X</u>		MRL required: Yes _____ MDL / PQL / J required: Yes _____		EDD required: Yes _____ Type: ENSR-specific	
Relinquished by: (Signature) <u>[Signature]</u>		Received by: (Signature) <u>[Signature]</u>		Chain of Custody Number: <u>062708621-1</u>	
Relinquished by: (Signature)		Received by: (Signature)		Cooler / Blank / Ice / No Ice Temperature <u>0-4</u> °C	
Relinquished by: (Signature)		Received by: (Signature)		Project Requirements (MRLs, QAPP) (See Contractual Specifications)	



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 Rochester, NY 14609
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Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No. _____

CAS Contact: Janice Jaeger

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes										Preservative Key		Remarks
ENSR 2 Technology Park Drive Westford, MA 01886-3140		Tronox Phase B Investigation												0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH		
Project Manager Robert Kennedy		Project Number: <u>04020-023-4312</u>		Preservative Code												
Phone 978-589-3324		P.O. # / Billing Information														
Fax 978-589-3100		Sampler (Print & Sign) <u>GAVEN COOPER / [Signature]</u>														
Email Address for Result Reporting <u>rkennedy@ensr.aecom.com</u>		Number of Containers														
Laboratory ID Number		Matrix														
Date Collected		Time Collected														
Client Sample ID		Date														
<u>M-67B</u>		<u>6/27/08 0700</u>														<u>NH3, TR04 / H2SO4</u>
<u>M-67B</u>		<u>6/27/08 0700</u>														<u>LN02, NH3, SO4, TDS, BR / TCE</u>
<u>M-68B</u>		<u>6/27/08 1000</u>														

Report Tier Levels - please select

Tier I - (Results/Default if not specified) _____

Tier II (Results + QC) _____

Tier III (Data Validation Package) 10% Surcharge _____

Tier V (client specified) X

MRL required: Yes _____

MDL / PQL / J required: Yes _____

EDD required: Yes _____

Type: ENSR-specific _____

Chain of Custody Number: 0627086W1-1

Cooler / Blank / Ice / No Ice _____

Temperature 10.4 °C

Relinquished by: (Signature) [Signature] Date: 6/27/08 Time: 12:15

Relinquished by: (Signature) [Signature] Date: 6/28/08 Time: 11:15

Relinquished by: (Signature) _____ Date: _____ Time: _____



Water & Soil - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Rochester, NY

CAS Project No. _____

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Contact: Janice Jaeger

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Preservative Code								Preservative Key	Remarks		
						TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	Hexavalent Chromium (218.8)				
Bob2108GN3		6/27/08	0750	WATER	3												
M-6AB		6/27/08	0750	WATER	3	X											
M-6AB		6/27/08	0750	WATER	2			X									
M-6AB		6/27/08	0750	WATER	1			X									
M-6AB		6/27/08	0750	WATER	2				X								
M-6AB		6/27/08	0750	WATER	1	X											
M-6AB		6/27/08	0750	WATER	1			X									
M-6AB		6/27/08	0750	WATER	1			X									
M-6AB		6/27/08	0750	WATER	3			X									
M-6AB		6/27/08	0750	WATER	1			X									

Report Tier Levels - please select
 Tier I - (Results/Default if not specified) _____
 Tier II (Results + QC) _____
 Tier III (Data Validation Package) 10% Surcharge _____
 Tier V (client specified) _____

MRL required: Yes _____
 EDD required: Yes _____
 Type: ENSR-specific _____

Relinquished by: (Signature) _____ Date: 6/27/08 Time: 1510
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) *Janice Jaeger* Date: 6/28/08 Time: 11:15
 Received by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____

Chain of Custody Number: 062708GN3-1
 Cooler / Blank / Ice / No Ice
 Temperature 1-4 °C

Project Name: Tronox Phase B Investigation

Project Number: 04020-023-4312

P.O. # / Billing Information

Sampler (Print & Sign): SARA WANG/SWJ

Lab Address for Result Reporting: rkennedy@ensr.aecom.com

Phone: 978-589-3324

Fax: 978-589-3100

Project Manager: Robert Kennedy

Client Address for Result Reporting: _____



Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140		Project Name Tronox Phase B Investigation Project Number: 04020-023-4322		Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		CAS Project No.					
Project Manager Robert Kennedy Phone 978-589-3324 Fax 978-589-3100		P.O. # / Billing Information		Analysis Method and/or Analytes		CAS Contact: Janice Jaeger					
Email Address for Result Reporting rkennedy@ensr.aecom.com		Sampler (Print & Sign) Robert Aves Rite Pk		Preservative Code		Preservative Key 0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH					
Client Sample ID		Laboratory ID Number		Date Collected		Matrix		Number of Containers		Remarks	
M-95B		6/27/08	0830	W	3						
M-95B		6/27/08	0830	W	1						
M-95B		6/27/08	0830	W	1						
M-95B		6/27/08	0830	W	1						ALKY (CO ₂ , HCO ₃)
M-95B		6/27/08	0830	W	1						
M-95B		6/27/08	0830	W	1						
M-95B		6/27/08	0830	W	1						
M-95B		6/27/08	0830	W	1						
M-95B		6/27/08	0830	W	1						
M-95B		6/27/08	0830	W	3						

Report Tier Levels - please select Tier I - (Results/Default if not specified) _____ Tier II (Results + QC) _____ Tier III (Data Validation Package) 10% Surcharge _____ Tier V (client specified) <input checked="" type="checkbox"/>		MRL required: Yes _____ MDL / PQL / J required: Yes _____ EDD required: Yes _____ Type: ENSR-specific	
Relinquished by: (Signature) Robert Aves		Relinquished by: (Signature) Amy Heath	
Date: 6/27/08 Time: 1500		Date: 6/28/08 Time: 1115	
Relinquished by: (Signature) Robert Aves		Relinquished by: (Signature) Amy Heath	
Date: 6/27/08 Time: 1500		Date: 6/28/08 Time: 1115	
Relinquished by: (Signature) Robert Aves		Relinquished by: (Signature) Amy Heath	
Date: 6/27/08 Time: 1500		Date: 6/28/08 Time: 1115	

Chain of Custody Number:
 062708G42-1
Cooler / Blank / Ice / No Ice
 Cooler
Temperature 4 °C



Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 288-5380

Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140		Project Name Tronox Phase B Investigation Project Number: 04020-023-4312 P.O. # / Billing Information		Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		CAS Project No.	
Project Manager Robert Kennedy Phone: 978-589-3324 Fax: 978-589-3100 Email Address for Result Reporting: rkennedy@ensr.aecom.com		Sampler (Print & Sign) ROBERT ANES Robert Anes		Analysis Method and/or Analytes Preservative Code 8 0 1 5 0 0 0 0 0 0 0		CAS Contact: Janice Jaeger	
Client Sample ID M-95B M-95B M-95B TRIP BLANK M-57AB		Laboratory ID Number 		Date Collected 6/27/08 6/27/08 6/27/08 6/25/08 6/27/08		Time Collected 0830 0830 0830 1400 1130	
Matrix W W W W W		Number of Containers 1 1 1 3 3		TPH - diesel-range organics/oil-range organics (8015B) VOCs (8260) Wet Chemistry (Except chlorate & perchlorate) (8081A) Organochlorine Pesticides (OCPs) (8081A) Semi-Volatile Organics (8270C) Formaldehyde (8315A) TPH - gasoline-range organics (8015B)		Preservative Key 0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH	
Remarks PH CI, NO ₃ , NO ₂ SO ₄ , Ba, TDS MGA		Hexavalent Chromium (218) [Handwritten mark]		TPH - diesel-range organics/oil-range organics (8015B) VOCs (8260) Wet Chemistry (Except chlorate & perchlorate) (8081A) Organochlorine Pesticides (OCPs) (8081A) Semi-Volatile Organics (8270C) Formaldehyde (8315A) TPH - gasoline-range organics (8015B)		Remarks 	
Relinquished by: (Signature) Robert Anes		Date: 6/27/08 Time: 1500		Received by: (Signature) Amy Hester		Date: 6/27/08 Time: 11:15	
Relinquished by: (Signature) Robert Anes		Date: Time:		Received by: (Signature)		Date: Time:	
Relinquished by: (Signature)		Date: Time:		Received by: (Signature)		Date: Time:	
Report Tier Levels - please select Tier I - (Results/Default if not specified) _____ Tier II (Results + QC) _____ Tier III (Data Validation Package) 10% Surcharge _____ Tier V (client specified) X _____				MRL required: Yes MDL / PQL / J required: Yes		EDD required: Yes Type: ENSR-specific	
Project Requirements (MRLs, QAPP)				Chain of Custody Number: 062708Gwz-1		Cooler / Blank / Ice / No Ice Temperature 0-4 °C	

Cooler Receipt And Preservation Check Form

Project/Client ENSR Submission Number R2844650

Cooler received on 6/28/08 by: AMH COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES YES NO NO
 2. Were custody papers properly filled out (ink, signed, etc.)? YES YES NO NO*
 3. Did all bottles arrive in good condition (unbroken)? YES YES NO NO*
 4. Did any VOA vials have significant* air bubbles? YES YES NO NO N/A
 5. Were Ice or Ice packs present? YES YES NO NO
 6. Where did the bottles originate? CAS/ROC, CLIENT
 7. Temperature of cooler(s) upon receipt: 2° 1° 0° 4° 2°
- Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
 If No, Explain Below No No No No No

Date/Time Temperatures Taken: 6/28/08 11:20

Thermometer ID: 161 / IR GUN#2 IR GUN#3 Reading From: Temp Blank X Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: AMH 6/30/08

Cooler Breakdown: Date: 6/30/08 by: IP

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES YES NO
2. Did all bottle labels and tags agree with custody papers? YES YES NO
3. Were correct containers used for the tests indicated? YES YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

pH	Reagent			Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
		YES	NO						
≥12	NaOH	<input checked="" type="checkbox"/>		WC85072G	11/10				
≤2	HNO ₃								
≤2	H ₂ SO ₄	<input checked="" type="checkbox"/>		WC85132D	04/09				
Residual Chlorine (-)	For TCN and Phenol	<input checked="" type="checkbox"/>		If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*	CO8A13	05/09				

Yes = All samples OK
 No = Samples were preserved at lab as listed
 PM OK to Adjust: _____

Bottle lot numbers: 050508-2, BDB26846, 116567-1, 031457, 0303160

Other Comments: * 1 Lamber for M-68B broken

PC Secondary Review: AMH 6/30/08 *significant air bubbles are greater than 5-6 mm

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112065 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/25/2008

Container: 11120651

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:06	rjones	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/30/08 16:12	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
06/30/08 16:48	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 111206510

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:04	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/26/08 7:41	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111206511

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:04	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111206512

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:04	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/25/08 14:06	dmurphy	Organic Extractions	Analyst	Analysis	<input type="checkbox"/>

Container: 111206513

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111206514

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 11120652

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:45	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11120653

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120654

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 17:45	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120655

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 9:53	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 17:15	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:41	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120656

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 9:27	bbowe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 15:46	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:41	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11120657

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 11:16	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120658

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 8:00	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 11:03	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120659

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 10:36	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 18:13	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112066 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/25/2008

Container: 11120661

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:06	rjones	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/30/08 16:12	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
06/30/08 16:48	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 111206610

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 8:00	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 11:03	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111206611

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111206612

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:04	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/25/08 14:06	dmurphy	Organic Extractions	Analyst	Analysis	<input type="checkbox"/>

Container: 111206613

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/26/08 7:41	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111206614

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:05	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/22/08 19:05	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11120662

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120663

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:08	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120664

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 17:45	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:07	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120665

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 9:53	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 17:15	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:41	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11120666

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 9:27	bbowe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 15:46	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:41	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120667

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 11:16	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120668

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11120669

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 10:36	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 18:13	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112067 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/25/2008

Container: 11120671

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:04	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111206710

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 10:36	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 18:13	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111206711

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:08	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 8:00	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 11:03	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111206712

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/26/08 7:41	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111206713

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111206714

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:05	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11120672

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:04	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/25/08 14:06	dmurphy	Organic Extractions	Analyst	Analysis	<input type="checkbox"/>

Container: 11120673

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/30/08 16:12	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
06/30/08 16:48	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 11120674

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120675

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:08	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120676

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 11:16	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120677

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 9:27	bbowe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 15:46	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:41	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11120678

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:08	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 9:53	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 17:15	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11120679

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:08	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 17:45	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Lab ID: 1112069 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/25/2008

Container: 11120691

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/30/08 16:12	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
06/30/08 16:48	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Lab ID: 1112070 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/25/2008

Container: 11120701

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 14:07	rjones	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/30/08 16:12	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
06/30/08 16:48	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112486 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/26/2008

Container: 11124861

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111248610

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 8:43	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111248611

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111248612

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:08	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 14:37	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111248613

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:42	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111248614

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11124862

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/30/08 16:12	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
06/30/08 16:48	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11124863

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 15:23	rpawl	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 17:02	rpawl	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124864

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 9:39	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:32	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124865

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:05	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 11124866

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 10:37	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 18:13	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11124867

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 14:03	hpundt	Sample Management	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 14:16	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124868

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 11:16	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:07	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124869

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 6:01	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112487 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/26/2008

Container: 11124871

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111248710

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 10:37	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 18:13	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111248711

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111248712

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111248713

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 8:43	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111248714

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:42	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11124872

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/30/08 16:12	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
06/30/08 16:48	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11124873

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 14:03	hpundt	Sample Management	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 14:16	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:07	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124874

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 15:23	rpawl	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 17:02	rpawl	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124875

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 6:01	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:07	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124876

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 9:39	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:32	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:03	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124877

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:08	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 14:38	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11124878

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 14:26	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:07	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124879

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>



Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112488 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/26/2008

Container: 11124881

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111248810

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 10:37	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 18:13	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111248811

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111248812

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:42	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111248813

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 8:43	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111248814

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 8:43	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11124882

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/30/08 16:12	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
06/30/08 16:48	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 Client: ENSR International

Container: 11124883

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 6:01	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124884

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 9:39	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:32	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:03	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124885

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:08	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 14:38	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124886

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 15:23	rpawl	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 17:02	rpawl	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124887

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 14:03	hpundt	Sample Management	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 14:16	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:07	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11124888

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 11124889

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:51	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 14:26	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:07	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112489 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/26/2008

Container: 11124891

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/30/08 16:12	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
06/30/08 16:48	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 111248910

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>

Container: 111248911

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:42	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111248912

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 8:43	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111248913

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111248914

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:58	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11124892

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124893

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 6:01	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11124894

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 9:39	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:32	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:03	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124895

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:08	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 14:38	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124896

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>

Container: 11124897

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:51	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 14:26	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11124898

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 14:03	hpundt	Sample Management	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 14:16	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 15:24	rpawl	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 17:02	rpawl	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11124899

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:57	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 10:37	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 18:13	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Lab ID: 1112490 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/26/2008

Container: 11124901

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/30/08 16:12	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
06/30/08 16:48	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Lab ID: 1112491 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/26/2008

Container: 11124911

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 13:56	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/30/08 16:12	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
06/30/08 16:49	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112809 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/27/2008

Container: 11128091

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 12:40	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111280910

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 8:53	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:06	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111280911

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111280912

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 17:26	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/25/08 8:05	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111280913

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/02/08 16:21	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/02/08 16:53	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 Client: ENSR International

Container: 111280914

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:22	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:30	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128092

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128093

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:42	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11128094

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128095

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128096

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 14:16	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 9:40	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128097

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:41	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11128098

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:51	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 14:26	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:11	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128099

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 9:39	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:32	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112810 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/27/2008

Container: 11128101

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:42	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111281010

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 9:39	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:33	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111281011

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:05	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111281012

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:22	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:30	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111281013

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 17:26	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/25/08 8:05	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 111281014

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/02/08 16:21	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/02/08 16:53	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 11128102

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128103

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 12:40	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11128104

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128105

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 14:17	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 9:40	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128106

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11128107

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:51	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 14:26	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128108

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 8:53	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:06	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128109

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:41	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 Client: ENSR International

Lab ID: 1112811 Matrix WATER

Received into CAS-Rochester Custody: 6/27/2008

Container: 11128111

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:30	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:54	gesmeria	Wet Chemistry	Dumpster	Disposal	<input checked="" type="checkbox"/>

Container: 111281110

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 8:54	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:06	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:23	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 16:21	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111281111

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:51	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 14:26	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111281112

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 9:39	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:33	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 111281113

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:41	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:04	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111281114

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111281112

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 17:26	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/25/08 8:05	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111281113

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/02/08 16:22	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/02/08 16:54	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 111281114

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:42	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111281115

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111281116

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 12:40	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11128117

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128118

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 14:16	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 9:40	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128119

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>



Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112812 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/27/2008

Container: 11128121

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:22	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:30	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111281210

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:42	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:07	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111281211

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 9:39	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:33	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111281212

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:51	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 14:26	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 111281213

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 14:16	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 9:40	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111281214

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128122

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 17:26	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/25/08 8:05	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128123

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/02/08 16:22	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/02/08 16:54	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 11128124

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 11128125

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 12:40	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11128126

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:42	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11128127

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128128

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128129

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 8:54	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:06	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Lab ID: 1112813 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/27/2008

Container: 11128131

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/02/08 16:22	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/02/08 16:54	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112871 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/27/2008

Container: 11128711

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 17:26	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/25/08 8:05	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287110

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 14:16	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 9:40	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287111

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287112

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111287113

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 8:54	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:06	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:23	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 16:21	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 111287114

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/02/08 16:22	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/02/08 16:54	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 11128712

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:22	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:30	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128713

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 12:40	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11128714

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128715

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:25	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:42	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11128716

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:24	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 9:39	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:33	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 9:58	rpawl	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11128717

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:42	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:07	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128718

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:51	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 14:26	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128719

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112872 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/27/2008

Container: 11128721

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/02/08 16:22	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/02/08 16:53	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 111287210

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 17:26	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/25/08 8:05	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287211

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:05	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111287212

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 8:49	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 14:26	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287213

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 14:16	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 9:40	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 111287214

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128722

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 12:40	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11128723

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:22	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:30	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128724

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:43	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11128725

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128726

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128727

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 8:54	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:06	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11128728

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:32	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:42	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:06	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128729

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:24	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 9:39	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:33	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 9:58	rpawl	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112874 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/27/2008

Container: 11128741

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 12:40	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111287410

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111287411

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111287412

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:43	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111287413

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:24	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 9:58	rpawl	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287414

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 9:39	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:33	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287415

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 111287416

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 17:26	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/25/08 8:05	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287417

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 17:26	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/25/08 8:05	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287418

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 17:26	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/25/08 8:05	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287419

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128742

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 12:40	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111287420

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 111287421

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287422

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/02/08 16:22	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/02/08 16:53	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 111287423

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 14:16	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 9:40	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287424

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:30	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287425

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 14:16	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 9:40	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287426

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 14:16	dbond	Metals	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 9:40	dbond	Metals	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 111287427

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 8:54	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:06	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287428

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287429

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 8:54	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:06	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11128743

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:42	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111287430

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:41	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287431

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:41	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:11	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 111287432

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287433

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111287434

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287435

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:51	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 14:26	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287436

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287437

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111287438

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:12	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11128744

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128745

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 12:40	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11128746

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128747

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128748

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11128749

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:26	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 7:42	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Lab ID: 1112876 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/27/2008

Container: 11128761

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/02/08 16:22	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/02/08 16:53	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1112877 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/27/2008

Container: 11128771

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/27/08 12:31	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/02/08 16:22	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/02/08 16:53	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1113426 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/28/2008

Container: 11134261

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>
07/09/08 13:56	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/09/08 16:56	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 111342610

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111342611

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
07/01/08 11:17	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111342612

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111342613

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 12:00	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111342614

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11134262

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134263

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 8:29	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 16:44	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134264

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/02/08 8:04	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/02/08 13:08	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/09/08 9:18	rpawl	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/09/08 14:50	rpawl	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134265

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:47	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134266

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:42	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:29	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134267

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 15:08	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:33	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11134268

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 8:48	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 17:36	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134269

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>



Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1113427 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/28/2008

Container: 11134271

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:22	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:45	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111342710

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 15:07	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111342711

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111342712

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
07/01/08 11:17	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111342713

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111342714

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 12:00	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11134272

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11134273

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:47	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134274

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:47	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134275

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:42	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:29	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134276

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134277

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 8:29	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 16:44	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:47	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134278

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/02/08 8:04	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/02/08 13:08	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11134279

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 8:48	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 17:36	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1113428 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/28/2008

Container: 11134281

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 111342810

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:47	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111342811

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111342812

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111342813

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 12:00	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111342814

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:19	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
07/01/08 11:17	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11134282

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11134283

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/02/08 8:04	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/02/08 13:08	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134284

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 15:07	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:33	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 11134285

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 8:48	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 17:36	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134286

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 8:29	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 16:44	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134287

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:42	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:29	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134288

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:47	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11134289

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1113429 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/28/2008

Container: 11134291

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>
07/09/08 13:56	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/09/08 16:56	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 111342910

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111342911

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 12:00	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111342912

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
07/01/08 11:17	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111342913

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111342914

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11134292

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:44	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134293

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134294

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/02/08 8:04	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/02/08 13:08	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134295

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 15:07	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 11134296

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:42	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:28	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/25/08 8:05	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134297

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 8:29	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 16:44	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11134298

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 8:48	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 17:36	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134299

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:47	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1113430 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/28/2008

Container: 11134301

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 16:21	cschrade	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 17:29	cschrade	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:45	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111343010

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 8:48	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 17:36	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111343011

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111343012

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/30/08 12:00	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111343013

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
07/01/08 11:17	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Chain of Custody

Submission: R2844650 Client: ENSR International

Container: 11134302

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>
07/09/08 13:56	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/09/08 16:56	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>
07/10/08 14:10	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/10/08 14:34	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Container: 11134303

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 7:42	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 14:29	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/24/08 8:13	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134304

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/02/08 8:04	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/02/08 13:08	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:38	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134305

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:47	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134306

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 15:08	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:33	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Container: 11134307

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 8:29	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 16:44	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:47	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134308

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11134309

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:18	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:06	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 18:49	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/29/08 7:46	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Lab ID: 1113431 **Matrix** WATER

Received into CAS-Rochester Custody: 6/28/2008

Container: 11134311

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Lab ID: 1113432 **Matrix** WATER

Received into CAS-Rochester Custody: 6/28/2008

Container: 11134321

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844650 **Client:** ENSR International

Lab ID: 1113433 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/28/2008

Container: 11134331

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/30/08 11:17	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
07/03/08 16:28	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	<input type="checkbox"/>
07/03/08 17:05	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	<input type="checkbox"/>

VOLATILE ORGANICS

QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 1112874 ENSR International

Client ID: M-7BB

Test: 8260B.DOD

Analytical Units: UG/L

Run Number : 164307

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.			QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
ACETONE	50.0	1.40	61.0	119	67.0	131	9	30	50 - 150
BENZENE	50.0	0	57.0	114	56.0	112	2	30	70 - 130
BROMOBENZENE	50.0	0	50.0	100	49.0	98	2	30	70 - 130
BROMOCHLOROMETHANE	50.0	0	54.0	108	53.0	106	2	30	70 - 130
BROMODICHLOROMETHANE	50.0	0	53.0	106	51.0	102	4	30	70 - 130
BROMOFORM	50.0	0	50.0	100	48.0	96	4	30	70 - 130
BROMOMETHANE	50.0	0	56.0	112	54.0	108	4	30	50 - 150
2-BUTANONE (MEK)	50.0	0	61.0	122	58.0	116	5	30	50 - 150
TERT-BUTYL ALCOHOL	1000	4.60	1200	120	1200	120	0	30	50 - 150
METHYL-TERT-BUTYL ETHER	50.0	0	61.0	122	59.0	118	3	30	70 - 130
ETHYL-TERT-BUTYL ETHER	50.0	0	65.0	130	64.0	128	2	30	50 - 150
TERT-BUTYLBENZENE	50.0	0	55.0	110	55.0	110	0	30	70 - 130
SEC-BUTYLBENZENE	50.0	0	55.0	110	55.0	110	0	30	70 - 130
N-BUTYLBENZENE	50.0	0	57.0	114	56.0	112	2	30	70 - 130
CARBON TETRACHLORIDE	50.0	0	52.0	104	50.0	100	4	30	70 - 130
CHLOROBENZENE	50.0	0	52.0	104	51.0	102	2	30	70 - 130
CHLOROETHANE	50.0	0	65.0	130	64.0	128	2	30	70 - 130
CHLOROFORM	50.0	2.10	61.0	118	59.0	114	3	30	70 - 130
CHLOROMETHANE	50.0	0	73.0	146*	72.0	144*	1	30	70 - 130
1,2-DIBROMO-3-CHLOROPROPAN	50.0	0	47.0	94	47.0	94	0	30	50 - 150
2-CHLOROTOLUENE	50.0	0	54.0	108	54.0	108	0	30	70 - 130
4-CHLOROTOLUENE	50.0	0	55.0	110	54.0	108	2	30	70 - 130
DIBROMOCHLOROMETHANE	50.0	0	52.0	104	50.0	100	4	30	70 - 130
1,2-DIBROMOETHANE	50.0	0	52.0	104	50.0	100	4	30	70 - 130
DIBROMOMETHANE	50.0	0	53.0	106	51.0	102	4	30	70 - 130
1,2-DICHLOROBENZENE	50.0	0	51.0	102	50.0	100	2	30	70 - 130
1,4-DICHLOROBENZENE	50.0	0	50.0	100	50.0	100	0	30	70 - 130
1,3-DICHLOROBENZENE	50.0	0	50.0	100	50.0	100	0	30	70 - 130
DICHLORODIFLUOROMETHANE	50.0	0	75.0	150*	72.0	144*	4	30	70 - 130
1,1-DICHLOROETHANE	50.0	2.50	63.0	121	61.0	117	3	30	70 - 130
1,2-DICHLOROETHANE	50.0	1.80	53.0	102	51.0	98	4	30	70 - 130
1,1-DICHLOROETHENE	50.0	0	63.0	126	61.0	122	3	30	70 - 130
TRANS-1,2-DICHLOROETHENE	50.0	0	59.0	118	58.0	116	2	30	70 - 130

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 1112874 ENSR International

Client ID: M-7BB

Test: 8260B.DOD

Analytical Units: UG/L

Run Number : 164307

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
CIS-1,2-DICHLOROETHENE	50.0	0	59.0	118	57.0	114	3	30	70 - 130
2,2-DICHLOROPROPANE	50.0	0	46.0	92	44.0	88	4	30	70 - 130
1,2-DICHLOROPROPANE	50.0	0	61.0	122	60.0	120	2	30	70 - 130
1,3-DICHLOROPROPANE	50.0	0	55.0	110	53.0	106	4	30	70 - 130
1,1-DICHLOROPROPENE	50.0	0	59.0	118	58.0	116	2	30	70 - 130
TRANS-1,3-DICHLOROPROPENE	50.0	0	56.0	112	54.0	108	4	30	70 - 130
CIS-1,3-DICHLOROPROPENE	50.0	0	57.0	114	56.0	112	2	30	70 - 130
ETHYLBENZENE	50.0	0	55.0	110	54.0	108	2	30	70 - 130
HEXACHLOROBUTADIENE	50.0	0	43.0	86	43.0	86	0	30	70 - 130
2-HEXANONE	50.0	0	58.0	116	56.0	112	4	30	70 - 130
DI-ISOPROPYL ETHER	50.0	0	71.0	142	68.0	136	4	30	50 - 150
ISOPROPYLBENZENE	50.0	0	58.0	116	57.0	114	2	30	70 - 130
P-ISOPROPYLTOLUENE	50.0	0	54.0	108	54.0	108	0	30	70 - 130
TERT-AMYL-METHYL ETHER	50.0	0	62.0	124	62.0	124	0	30	50 - 150
METHYLENE CHLORIDE	50.0	0.250	55.0	110	53.0	106	4	30	70 - 130
NAPHTHALENE	50.0	0	51.0	102	49.0	98	4	30	50 - 150
4-METHYL-2-PENTANONE	50.0	0	62.0	124	60.0	120	3	30	70 - 130
N-PROPYLBENZENE	50.0	0	56.0	112	56.0	112	0	30	70 - 130
STYRENE	50.0	0	51.0	102	47.0	94	8	30	70 - 130
1,1,1,2-TETRACHLOROETHANE	50.0	0	51.0	102	50.0	100	2	30	70 - 130
1,1,2,2-TETRACHLOROETHANE	50.0	0	58.0	116	55.0	110	5	30	70 - 130
TETRACHLOROETHENE	50.0	0.210	50.0	100	49.0	98	2	30	70 - 130
TOLUENE	50.0	0	55.0	110	54.0	108	2	30	70 - 130
1,2,4-TRICHLOROBENZENE	50.0	0	50.0	100	50.0	100	0	30	70 - 130
1,2,3-TRICHLOROBENZENE	50.0	0	50.0	100	50.0	100	0	30	70 - 130
1,1,1-TRICHLOROETHANE	50.0	0	56.0	112	54.0	108	4	30	70 - 130
1,1,2-TRICHLOROETHANE	50.0	0	54.0	108	53.0	106	2	30	70 - 130
TRICHLOROETHENE	50.0	0	52.0	104	52.0	104	0	30	70 - 130
TRICHLOROFLUOROMETHANE	50.0	0	58.0	116	55.0	110	5	30	70 - 130
1,2,3-TRICHLOROPROPANE	50.0	0	50.0	100	49.0	98	2	30	70 - 130
1,3,5-TRIMETHYLBENZENE	50.0	0	55.0	110	54.0	108	2	30	70 - 130
1,2,4-TRIMETHYLBENZENE	50.0	0	55.0	110	55.0	110	0	30	70 - 130
VINYL CHLORIDE	50.0	0	70.0	140*	67.0	134*	4	30	70 - 130

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 1112874 ENSR International

Client ID: M-7BB

Test: 8260B.DOD

Analytical Units: UG/L

Run Number : 164307

ANALYTE	SPIKE		MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS	
	ADDED	CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.	
										SAMPLE
M+P-XYLENE	100	0	110	110	110	110	0	30	70 - 130	
O-XYLENE	50.0	0	57.0	114	56.0	112	2	30	70 - 130	

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B.DODLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1119375

ANALYTICAL RUN #: 164283

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.0		
ACETONE	20.0	121	75 - 125
BENZENE	20.0	105	75 - 125
BROMOBENZENE	20.0	102	75 - 125
BROMOCHLOROMETHANE	20.0	104	75 - 125
BROMODICHLOROMETHANE	20.0	101	75 - 125
BROMOFORM	20.0	101	75 - 125
BROMOMETHANE	20.0	104	75 - 125
2-BUTANONE (MEK)	20.0	116	75 - 125
TERT-BUTYL ALCOHOL	400	120	75 - 125
METHYL-TERT-BUTYL ETHER	20.0	117	75 - 125
ETHYL-TERT-BUTYL ETHER	20.0	122	75 - 125
TERT-BUTYLBENZENE	20.0	106	75 - 125
SEC-BUTYLBENZENE	20.0	106	75 - 125
N-BUTYLBENZENE	20.0	107	75 - 125
CARBON TETRACHLORIDE	20.0	95	75 - 125
CHLOROBENZENE	20.0	101	75 - 125
CHLOROETHANE	20.0	107	75 - 125
CHLOROFORM	20.0	105	75 - 125
CHLOROMETHANE	20.0	117	75 - 125
1,2-DIBROMO-3-CHLOROPROPANE	20.0	100	75 - 125
2-CHLOROTOLUENE	20.0	105	75 - 125
4-CHLOROTOLUENE	20.0	107	75 - 125
DIBROMOCHLOROMETHANE	20.0	106	75 - 125
1,2-DIBROMOETHANE	20.0	107	75 - 125
DIBROMOMETHANE	20.0	104	75 - 125
1,2-DICHLOROBENZENE	20.0	104	75 - 125
1,4-DICHLOROBENZENE	20.0	100	75 - 125
1,3-DICHLOROBENZENE	20.0	101	75 - 125
DICHLORODIFLUOROMETHANE	20.0	128 *	75 - 125
1,1-DICHLOROETHANE	20.0	107	75 - 125
1,2-DICHLOROETHANE	20.0	102	75 - 125
1,1-DICHLOROETHENE	20.0	111	75 - 125
TRANS-1,2-DICHLOROETHENE	20.0	103	75 - 125
CIS-1,2-DICHLOROETHENE	20.0	106	75 - 125
2,2-DICHLOROPROPANE	20.0	76	75 - 125
1,2-DICHLOROPROPANE	20.0	113	75 - 125
1,3-DICHLOROPROPANE	20.0	108	75 - 125
1,1-DICHLOROPROPENE	20.0	107	75 - 125
TRANS-1,3-DICHLOROPROPENE	20.0	103	75 - 125
CIS-1,3-DICHLOROPROPENE	20.0	107	75 - 125
ETHYLBENZENE	20.0	104	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1119375

ANALYTICAL RUN #: 164283

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.0		
HEXACHLOROBUTADIENE	20.0	96	75 - 125
2-HEXANONE	20.0	105	75 - 125
DI-ISOPROPYL ETHER	20.0	121	75 - 125
ISOPROPYLBENZENE	20.0	108	75 - 125
P-ISOPROPYLTOLUENE	20.0	105	75 - 125
TERT-AMYL-METHYL ETHER	20.0	117	75 - 125
METHYLENE CHLORIDE	20.0	102	75 - 125
NAPHTHALENE	20.0	106	75 - 125
4-METHYL-2-PENTANONE	20.0	114	75 - 125
N-PROPYLBENZENE	20.0	106	75 - 125
STYRENE	20.0	110	75 - 125
1,1,1,2-TETRACHLOROETHANE	20.0	99	75 - 125
1,1,2,2-TETRACHLOROETHANE	20.0	116	75 - 125
TETRACHLOROETHENE	20.0	97	75 - 125
TOLUENE	20.0	103	75 - 125
1,2,4-TRICHLOROBENZENE	20.0	109	75 - 125
1,2,3-TRICHLOROBENZENE	20.0	108	75 - 125
1,1,1-TRICHLOROETHANE	20.0	99	75 - 125
1,1,2-TRICHLOROETHANE	20.0	108	75 - 125
TRICHLOROETHENE	20.0	101	75 - 125
TRICHLOROFLUOROMETHANE	20.0	98	75 - 125
1,2,3-TRICHLOROPROPANE	20.0	105	75 - 125
1,3,5-TRIMETHYLBENZENE	20.0	107	75 - 125
1,2,4-TRIMETHYLBENZENE	20.0	108	75 - 125
VINYL CHLORIDE	20.0	113	75 - 125
M+P-XYLENE	40.0	108	75 - 125
O-XYLENE	20.0	110	75 - 125

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B.DODLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1119456

ANALYTICAL RUN #: 164297

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.0		
ACETONE	20.0	122	75 - 125
BENZENE	20.0	103	75 - 125
BROMOBENZENE	20.0	99	75 - 125
BROMOCHLOROMETHANE	20.0	99	75 - 125
BROMODICHLOROMETHANE	20.0	96	75 - 125
BROMOFORM	20.0	89	75 - 125
BROMOMETHANE	20.0	101	75 - 125
2-BUTANONE (MEK)	20.0	101	75 - 125
TERT-BUTYL ALCOHOL	400	94	75 - 125
METHYL-TERT-BUTYL ETHER	20.0	104	75 - 125
ETHYL-TERT-BUTYL ETHER	20.0	114	75 - 125
TERT-BUTYLBENZENE	20.0	104	75 - 125
SEC-BUTYLBENZENE	20.0	107	75 - 125
N-BUTYLBENZENE	20.0	110	75 - 125
CARBON TETRACHLORIDE	20.0	92	75 - 125
CHLOROBENZENE	20.0	98	75 - 125
CHLOROETHANE	20.0	107	75 - 125
CHLOROFORM	20.0	104	75 - 125
CHLOROMETHANE	20.0	116	75 - 125
1,2-DIBROMO-3-CHLOROPROPANE	20.0	83	75 - 125
2-CHLOROTOLUENE	20.0	102	75 - 125
4-CHLOROTOLUENE	20.0	105	75 - 125
DIBROMOCHLOROMETHANE	20.0	94	75 - 125
1,2-DIBROMOETHANE	20.0	96	75 - 125
DIBROMOMETHANE	20.0	96	75 - 125
1,2-DICHLOROBENZENE	20.0	98	75 - 125
1,4-DICHLOROBENZENE	20.0	99	75 - 125
1,3-DICHLOROBENZENE	20.0	99	75 - 125
DICHLORODIFLUOROMETHANE	20.0	127 *	75 - 125
1,1-DICHLOROETHANE	20.0	106	75 - 125
1,2-DICHLOROETHANE	20.0	94	75 - 125
1,1-DICHLOROETHENE	20.0	110	75 - 125
TRANS-1,2-DICHLOROETHENE	20.0	104	75 - 125
CIS-1,2-DICHLOROETHENE	20.0	104	75 - 125
2,2-DICHLOROPROPANE	20.0	104	75 - 125
1,2-DICHLOROPROPANE	20.0	109	75 - 125
1,3-DICHLOROPROPANE	20.0	99	75 - 125
1,1-DICHLOROPROPENE	20.0	104	75 - 125
TRANS-1,3-DICHLOROPROPENE	20.0	99	75 - 125
CIS-1,3-DICHLOROPROPENE	20.0	105	75 - 125
ETHYLBENZENE	20.0	102	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1119456

ANALYTICAL RUN #: 164297

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.0		
HEXACHLOROBUTADIENE	20.0	101	75 - 125
2-HEXANONE	20.0	88	75 - 125
DI-ISOPROPYL ETHER	20.0	121	75 - 125
ISOPROPYLBENZENE	20.0	105	75 - 125
P-ISOPROPYLTOLUENE	20.0	105	75 - 125
TERT-AMYL-METHYL ETHER	20.0	107	75 - 125
METHYLENE CHLORIDE	20.0	99	75 - 125
NAPHTHALENE	20.0	92	75 - 125
4-METHYL-2-PENTANONE	20.0	95	75 - 125
N-PROPYLBENZENE	20.0	106	75 - 125
STYRENE	20.0	106	75 - 125
1,1,1,2-TETRACHLOROETHANE	20.0	96	75 - 125
1,1,2,2-TETRACHLOROETHANE	20.0	104	75 - 125
TETRACHLOROETHENE	20.0	96	75 - 125
TOLUENE	20.0	101	75 - 125
1,2,4-TRICHLOROBENZENE	20.0	102	75 - 125
1,2,3-TRICHLOROBENZENE	20.0	99	75 - 125
1,1,1-TRICHLOROETHANE	20.0	98	75 - 125
1,1,2-TRICHLOROETHANE	20.0	98	75 - 125
TRICHLOROETHENE	20.0	98	75 - 125
TRICHLOROFLUOROMETHANE	20.0	97	75 - 125
1,2,3-TRICHLOROPROPANE	20.0	89	75 - 125
1,3,5-TRIMETHYLBENZENE	20.0	105	75 - 125
1,2,4-TRIMETHYLBENZENE	20.0	106	75 - 125
VINYL CHLORIDE	20.0	108	75 - 125
M+P-XYLENE	40.0	105	75 - 125
O-XYLENE	20.0	106	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1119493

ANALYTICAL RUN #: 164307

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.0		
ACETONE	20.0	113	75 - 125
BENZENE	20.0	101	75 - 125
BROMOBENZENE	20.0	95	75 - 125
BROMOCHLOROMETHANE	20.0	98	75 - 125
BROMODICHLOROMETHANE	20.0	95	75 - 125
BROMOFORM	20.0	89	75 - 125
BROMOMETHANE	20.0	101	75 - 125
2-BUTANONE (MEK)	20.0	106	75 - 125
TERT-BUTYL ALCOHOL	400	99	75 - 125
METHYL-TERT-BUTYL ETHER	20.0	107	75 - 125
ETHYL-TERT-BUTYL ETHER	20.0	113	75 - 125
TERT-BUTYLBENZENE	20.0	100	75 - 125
SEC-BUTYLBENZENE	20.0	102	75 - 125
N-BUTYLBENZENE	20.0	107	75 - 125
CARBON TETRACHLORIDE	20.0	88	75 - 125
CHLOROBENZENE	20.0	95	75 - 125
CHLOROETHANE	20.0	111	75 - 125
CHLOROFORM	20.0	103	75 - 125
CHLOROMETHANE	20.0	121	75 - 125
1,2-DIBROMO-3-CHLOROPROPANE	20.0	83	75 - 125
2-CHLOROTOLUENE	20.0	100	75 - 125
4-CHLOROTOLUENE	20.0	102	75 - 125
DIBROMOCHLOROMETHANE	20.0	95	75 - 125
1,2-DIBROMOETHANE	20.0	95	75 - 125
DIBROMOMETHANE	20.0	97	75 - 125
1,2-DICHLOROBENZENE	20.0	97	75 - 125
1,4-DICHLOROBENZENE	20.0	95	75 - 125
1,3-DICHLOROBENZENE	20.0	95	75 - 125
DICHLORODIFLUOROMETHANE	20.0	126 *	75 - 125
1,1-DICHLOROETHANE	20.0	105	75 - 125
1,2-DICHLOROETHANE	20.0	94	75 - 125
1,1-DICHLOROETHENE	20.0	108	75 - 125
TRANS-1,2-DICHLOROETHENE	20.0	103	75 - 125
CIS-1,2-DICHLOROETHENE	20.0	103	75 - 125
2,2-DICHLOROPROPANE	20.0	102	75 - 125
1,2-DICHLOROPROPANE	20.0	107	75 - 125
1,3-DICHLOROPROPANE	20.0	98	75 - 125
1,1-DICHLOROPROPENE	20.0	103	75 - 125
TRANS-1,3-DICHLOROPROPENE	20.0	100	75 - 125
CIS-1,3-DICHLOROPROPENE	20.0	105	75 - 125
ETHYLBENZENE	20.0	99	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1119493

ANALYTICAL RUN #: 164307

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.0		
HEXACHLOROBUTADIENE	20.0	94	75 - 125
2-HEXANONE	20.0	87	75 - 125
DI-ISOPROPYL ETHER	20.0	121	75 - 125
ISOPROPYLBENZENE	20.0	101	75 - 125
P-ISOPROPYLTOLUENE	20.0	100	75 - 125
TERT-AMYL-METHYL ETHER	20.0	107	75 - 125
METHYLENE CHLORIDE	20.0	100	75 - 125
NAPHTHALENE	20.0	92	75 - 125
4-METHYL-2-PENTANONE	20.0	97	75 - 125
N-PROPYLBENZENE	20.0	104	75 - 125
STYRENE	20.0	103	75 - 125
1,1,1,2-TETRACHLOROETHANE	20.0	93	75 - 125
1,1,2,2-TETRACHLOROETHANE	20.0	107	75 - 125
TETRACHLOROETHENE	20.0	91	75 - 125
TOLUENE	20.0	98	75 - 125
1,2,4-TRICHLOROBENZENE	20.0	99	75 - 125
1,2,3-TRICHLOROBENZENE	20.0	97	75 - 125
1,1,1-TRICHLOROETHANE	20.0	95	75 - 125
1,1,2-TRICHLOROETHANE	20.0	100	75 - 125
TRICHLOROETHENE	20.0	93	75 - 125
TRICHLOROFLUOROMETHANE	20.0	96	75 - 125
1,2,3-TRICHLOROPROPANE	20.0	94	75 - 125
1,3,5-TRIMETHYLBENZENE	20.0	102	75 - 125
1,2,4-TRIMETHYLBENZENE	20.0	103	75 - 125
VINYL CHLORIDE	20.0	111	75 - 125
M+P-XYLENE	40.0	101	75 - 125
O-XYLENE	20.0	102	75 - 125

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B.DODLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1119513

ANALYTICAL RUN #: 164307

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/09/08		
ANALYTICAL DILUTION:	1.0		
ACETONE	20.0	134 *	75 - 125
BENZENE	20.0	98	75 - 125
BROMOBENZENE	20.0	89	75 - 125
BROMOCHLOROMETHANE	20.0	102	75 - 125
BROMODICHLOROMETHANE	20.0	93	75 - 125
BROMOFORM	20.0	88	75 - 125
BROMOMETHANE	20.0	99	75 - 125
2-BUTANONE (MEK)	20.0	114	75 - 125
TERT-BUTYL ALCOHOL	400	99	75 - 125
METHYL-TERT-BUTYL ETHER	20.0	106	75 - 125
ETHYL-TERT-BUTYL ETHER	20.0	118	75 - 125
TERT-BUTYLBENZENE	20.0	91	75 - 125
SEC-BUTYLBENZENE	20.0	95	75 - 125
N-BUTYLBENZENE	20.0	99	75 - 125
CARBON TETRACHLORIDE	20.0	83	75 - 125
CHLOROBENZENE	20.0	92	75 - 125
CHLOROETHANE	20.0	108	75 - 125
CHLOROFORM	20.0	103	75 - 125
CHLOROMETHANE	20.0	118	75 - 125
1,2-DIBROMO-3-CHLOROPROPANE	20.0	79	75 - 125
2-CHLOROTOLUENE	20.0	93	75 - 125
4-CHLOROTOLUENE	20.0	94	75 - 125
DIBROMOCHLOROMETHANE	20.0	91	75 - 125
1,2-DIBROMOETHANE	20.0	93	75 - 125
DIBROMOMETHANE	20.0	96	75 - 125
1,2-DICHLOROBENZENE	20.0	92	75 - 125
1,4-DICHLOROBENZENE	20.0	90	75 - 125
1,3-DICHLOROBENZENE	20.0	90	75 - 125
DICHLORODIFLUOROMETHANE	20.0	119	75 - 125
1,1-DICHLOROETHANE	20.0	104	75 - 125
1,2-DICHLOROETHANE	20.0	93	75 - 125
1,1-DICHLOROETHENE	20.0	103	75 - 125
TRANS-1,2-DICHLOROETHENE	20.0	101	75 - 125
CIS-1,2-DICHLOROETHENE	20.0	103	75 - 125
2,2-DICHLOROPROPANE	20.0	101	75 - 125
1,2-DICHLOROPROPANE	20.0	109	75 - 125
1,3-DICHLOROPROPANE	20.0	96	75 - 125
1,1-DICHLOROPROPENE	20.0	94	75 - 125
TRANS-1,3-DICHLOROPROPENE	20.0	99	75 - 125
CIS-1,3-DICHLOROPROPENE	20.0	103	75 - 125
ETHYLBENZENE	20.0	92	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1119513

ANALYTICAL RUN #: 164307

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/09/08		
ANALYTICAL DILUTION:	1.0		
HEXACHLOROBUTADIENE	20.0	93	75 - 125
2-HEXANONE	20.0	90	75 - 125
DI-ISOPROPYL ETHER	20.0	128 *	75 - 125
ISOPROPYLBENZENE	20.0	94	75 - 125
P-ISOPROPYLTOLUENE	20.0	92	75 - 125
TERT-AMYL-METHYL ETHER	20.0	110	75 - 125
METHYLENE CHLORIDE	20.0	102	75 - 125
NAPHTHALENE	20.0	86	75 - 125
4-METHYL-2-PENTANONE	20.0	99	75 - 125
N-PROPYLBENZENE	20.0	94	75 - 125
STYRENE	20.0	99	75 - 125
1,1,1,2-TETRACHLOROETHANE	20.0	89	75 - 125
1,1,2,2-TETRACHLOROETHANE	20.0	103	75 - 125
TETRACHLOROETHENE	20.0	83	75 - 125
TOLUENE	20.0	94	75 - 125
1,2,4-TRICHLOROBENZENE	20.0	93	75 - 125
1,2,3-TRICHLOROBENZENE	20.0	92	75 - 125
1,1,1-TRICHLOROETHANE	20.0	92	75 - 125
1,1,2-TRICHLOROETHANE	20.0	99	75 - 125
TRICHLOROETHENE	20.0	89	75 - 125
TRICHLOROFLUOROMETHANE	20.0	93	75 - 125
1,2,3-TRICHLOROPROPANE	20.0	91	75 - 125
1,3,5-TRIMETHYLBENZENE	20.0	93	75 - 125
1,2,4-TRIMETHYLBENZENE	20.0	94	75 - 125
VINYL CHLORIDE	20.0	110	75 - 125
M+P-XYLENE	40.0	95	75 - 125
O-XYLENE	20.0	97	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1119771

ANALYTICAL RUN #: 164307

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/10/08		
ANALYTICAL DILUTION:	1.0		
ACETONE	20.0	101	75 - 125
BENZENE	20.0	93	75 - 125
BROMOBENZENE	20.0	90	75 - 125
BROMOCHLOROMETHANE	20.0	98	75 - 125
BROMODICHLOROMETHANE	20.0	85	75 - 125
BROMOFORM	20.0	85	75 - 125
BROMOMETHANE	20.0	90	75 - 125
2-BUTANONE (MEK)	20.0	82	75 - 125
TERT-BUTYL ALCOHOL	400	90	75 - 125
METHYL-TERT-BUTYL ETHER	20.0	101	75 - 125
ETHYL-TERT-BUTYL ETHER	20.0	114	75 - 125
TERT-BUTYLBENZENE	20.0	90	75 - 125
SEC-BUTYLBENZENE	20.0	93	75 - 125
N-BUTYLBENZENE	20.0	95	75 - 125
CARBON TETRACHLORIDE	20.0	77	75 - 125
CHLOROBENZENE	20.0	89	75 - 125
CHLOROETHANE	20.0	90	75 - 125
CHLOROFORM	20.0	95	75 - 125
CHLOROMETHANE	20.0	90	75 - 125
1,2-DIBROMO-3-CHLOROPROPANE	20.0	82	75 - 125
2-CHLOROTOLUENE	20.0	90	75 - 125
4-CHLOROTOLUENE	20.0	91	75 - 125
DIBROMOCHLOROMETHANE	20.0	88	75 - 125
1,2-DIBROMOETHANE	20.0	92	75 - 125
DIBROMOMETHANE	20.0	91	75 - 125
1,2-DICHLOROBENZENE	20.0	90	75 - 125
1,4-DICHLOROBENZENE	20.0	88	75 - 125
1,3-DICHLOROBENZENE	20.0	88	75 - 125
DICHLORODIFLUOROMETHANE	20.0	105	75 - 125
1,1-DICHLOROETHANE	20.0	91	75 - 125
1,2-DICHLOROETHANE	20.0	80	75 - 125
1,1-DICHLOROETHENE	20.0	100	75 - 125
TRANS-1,2-DICHLOROETHENE	20.0	97	75 - 125
CIS-1,2-DICHLOROETHENE	20.0	101	75 - 125
2,2-DICHLOROPROPANE	20.0	92	75 - 125
1,2-DICHLOROPROPANE	20.0	98	75 - 125
1,3-DICHLOROPROPANE	20.0	91	75 - 125
1,1-DICHLOROPROPENE	20.0	89	75 - 125
TRANS-1,3-DICHLOROPROPENE	20.0	94	75 - 125
CIS-1,3-DICHLOROPROPENE	20.0	97	75 - 125
ETHYLBENZENE	20.0	90	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1119771

ANALYTICAL RUN # : 164307

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/10/08		
ANALYTICAL DILUTION:	1.0		
HEXACHLOROBUTADIENE	20.0	93	75 - 125
2-HEXANONE	20.0	71 *	75 - 125
DI-ISOPROPYL ETHER	20.0	104	75 - 125
ISOPROPYLBENZENE	20.0	91	75 - 125
P-ISOPROPYLTOLUENE	20.0	91	75 - 125
TERT-AMYL-METHYL ETHER	20.0	114	75 - 125
METHYLENE CHLORIDE	20.0	96	75 - 125
NAPHTHALENE	20.0	86	75 - 125
4-METHYL-2-PENTANONE	20.0	76	75 - 125
N-PROPYLBENZENE	20.0	90	75 - 125
STYRENE	20.0	94	75 - 125
1,1,1,2-TETRACHLOROETHANE	20.0	86	75 - 125
1,1,2,2-TETRACHLOROETHANE	20.0	100	75 - 125
TETRACHLOROETHENE	20.0	83	75 - 125
TOLUENE	20.0	91	75 - 125
1,2,4-TRICHLOROBENZENE	20.0	93	75 - 125
1,2,3-TRICHLOROBENZENE	20.0	92	75 - 125
1,1,1-TRICHLOROETHANE	20.0	84	75 - 125
1,1,2-TRICHLOROETHANE	20.0	97	75 - 125
TRICHLOROETHENE	20.0	89	75 - 125
TRICHLOROFLUOROMETHANE	20.0	79	75 - 125
1,2,3-TRICHLOROPROPANE	20.0	84	75 - 125
1,3,5-TRIMETHYLBENZENE	20.0	90	75 - 125
1,2,4-TRIMETHYLBENZENE	20.0	91	75 - 125
VINYL CHLORIDE	20.0	89	75 - 125
M+P-XYLENE	40.0	92	75 - 125
O-XYLENE	20.0	94	75 - 125

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

INST BLANK

Lab Name: CASIROCH Contract: ENSR INT
Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
Lab File ID: B0769.D Lab Sample ID: INST BLANK
Date Analyzed: 6/26/2008 Time Analyzed: 12:11
GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N
Instrument ID: MSVOA10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	0.5 STD	0.5 PPB STD	B0770.D	13:21
02	1.0 STD	1.0 PPB STD	B0771.D	13:51
03	2.0 STD	2.0 PPB STD	B0772.D	14:21
04	5.0 STD	5.0 PPB STD	B0773.D	14:50
05	10 STD	10 PPB STD	B0774.D	15:22
06	50 STD	50 PPB STD	B0775.D	15:52
07	100 STD	100 PPB STD	B0776.D	16:49
08	150 STD	150 PPB STD	B0777.D	17:19
09	200 STD	200 PPB STD	B0778.D	17:49

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

MET BLK 1

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: B0836.D Lab Sample ID: 1119374 1.0
 Date Analyzed: 7/1/2008 Time Analyzed: 3:23
 GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOA10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS 1	1119375 1.0	B0834.D	2:23
02	M-44B	1112065 1.0	B0837.D	3:53
03	M-49AB	1112066 1.0	B0838.D	4:22
04	FB062408GWAREA	1112067 1.0	B0839.D	4:52
05	TRIP BLANK	1112069 1.0	B0840.D	5:22
06	TRIP BLANK	1112070 1.0	B0841.D	5:52
07	MC-45B	1112486 1.0	B0842.D	6:22
08	MC-53B	1112487 1.0	B0843.D	6:52
09	M-23B	1112488 1.0	B0844.D	7:21
10	MC-97B	1112489 1.0	B0845.D	7:51
11	TRIP BLANK	1112490 1.0	B0846.D	8:21
12	TRIP BLANK	1112491 1.0	B0847.D	8:51

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MET BLK 2

Lab Name: CAS\ROCH Contract: ENSR INT
Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
Lab File ID: B0881.D Lab Sample ID: 1119455 1.0
Date Analyzed: 7/2/2008 Time Analyzed: 15:38
GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N
Instrument ID: MSVOA10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS 2	1119456 1.0	B0879.D	14:29
02	MC-94B	1112809 1.0	B0888.D	19:19
03	MW-16B	1112810 1.0	B0889.D	19:49
04	M-5AB	1112811 25.0	B0890.D	20:19
05	EB062608GW3	1112812 1.0	B0891.D	20:49
06	TRIP BLANK	1112813 1.0	B0892.D	21:19
07	M-61B	1112871 1.0	B0893.D	21:48
08	M-88BB	1112872 1.0	B0894.D	22:18

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

MET BLK 3

Lab Name: CAS\ROCH Contract: ENSR INT

Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B

Lab File ID: B0903.D Lab Sample ID: 1119492 1.0

Date Analyzed: 7/3/2008 Time Analyzed: 13:13

GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS 3	1119493 1.0	B0901.D	12:00
02	MW-16B DL	1112810 2.0	B0905.D	14:27
03	M-61B DL	1112871 2.0	B0906.D	14:57
04	M-88BB DL	1112872 5.0	B0907.D	15:27
05	M-7BB	1112874 1.0	B0908.D	15:56
06	TRIP BLANK	1112876 1.0	B0909.D	16:26
07	TRIP BLANK	1112877 1.0	B0910.D	16:56
08	M-67B	1113426 1.0	B0911.D	17:26
09	M-6AB	1113427 1.0	B0912.D	17:56
10	M-57AB	1113428 1.0	B0913.D	18:26
11	M-95B	1113429 1.0	B0914.D	18:55
12	M-68B	1113430 1.0	B0915.D	19:25
13	TRIP BLANK	1113431 1.0	B0916.D	19:55
14	TB062708GW3	1113432 1.0	B0917.D	20:25
15	TRIP BLANK	1113433 1.0	B0918.D	20:54
16	M-7BB MS	1119494 1.0	B0919.D	21:24
17	M-7BB MSD	1119495 1.0	B0920.D	21:54

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

MET BLK 4

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: B0998.D Lab Sample ID: 1119512 1.0
 Date Analyzed: 7/9/2008 Time Analyzed: 12:39
 GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOA10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS 4	1119513 1.0	B0999.D	13:32
02	M-67B DL	1113426 5.0	B1013.D	20:43
03	M-95B DL	1113429 2.5	B1014.D	21:13

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

MET BLK 5

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: B1026.D Lab Sample ID: 1119770 1.0
 Date Analyzed: 7/10/2008 Time Analyzed: 14:41
 GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOA10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS 5	1119771 1.0	B1024.D	13:30
02	M-68B DL	1113430 2.0	B1041.D	22:09

COMMENTS:

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: B0768.D BFB Injection Date: 6/26/2008
 Instrument ID: MSVOA10 BFB Injection Time: 11:33
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.6
75	30.0 - 66.0% of mass 95	44.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (0.9)1
174	50.0 - 120.0% of mass 95	94.6
175	4.0 - 9.0% of mass 174	6.7 (7.1)1
176	93.0 - 101.0% of mass 174	89.9 (95.1)1
177	5.0 - 9.0% of mass 176	6.9 (7.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

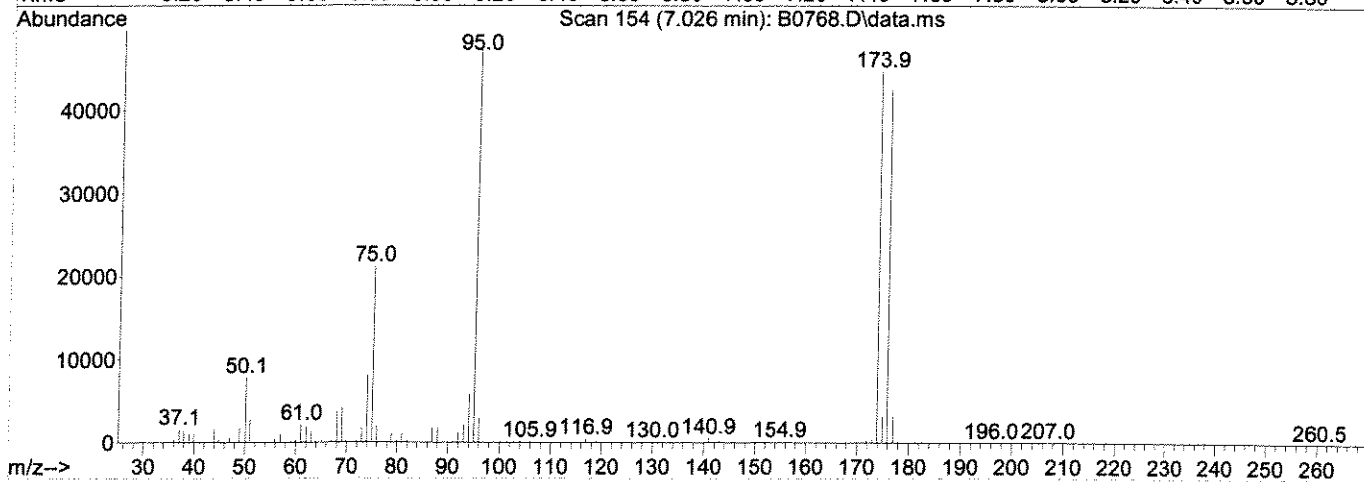
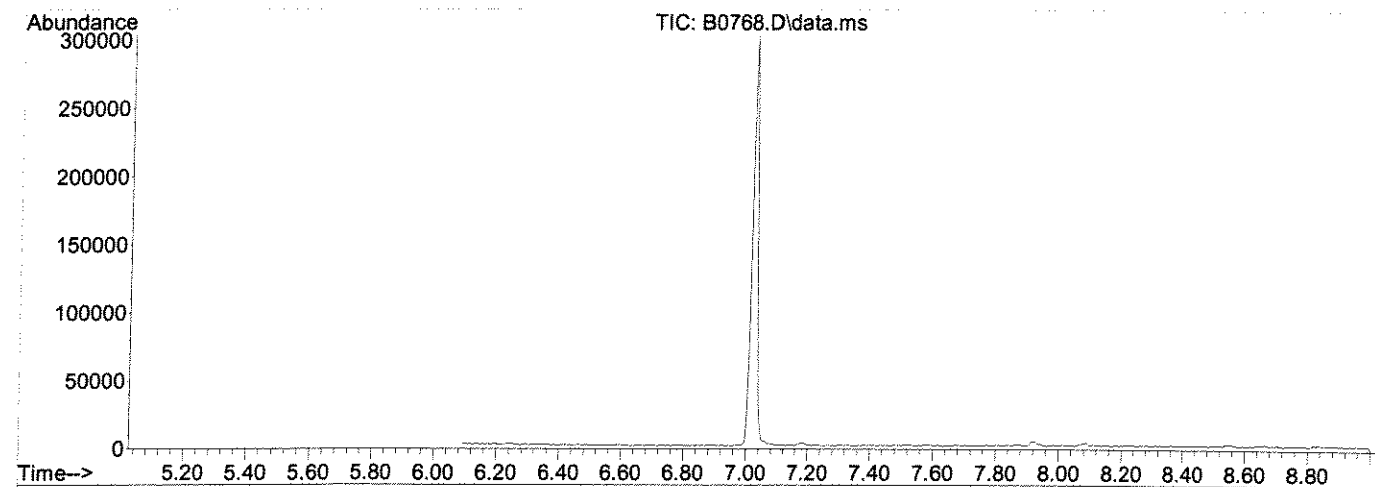
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INST BLANK	INST BLANK	B0769.D	6/26/2008	12:11
02	0.5 STD	0.5 PPB STD	B0770.D	6/26/2008	13:21
03	1.0 STD	1.0 PPB STD	B0771.D	6/26/2008	13:51
04	2.0 STD	2.0 PPB STD	B0772.D	6/26/2008	14:21
05	5.0 STD	5.0 PPB STD	B0773.D	6/26/2008	14:50
06	10 STD	10 PPB STD	B0774.D	6/26/2008	15:22
07	50 STD	50 PPB STD	B0775.D	6/26/2008	15:52
08	100 STD	100 PPB STD	B0776.D	6/26/2008	16:49
09	150 STD	150 PPB STD	B0777.D	6/26/2008	17:19
10	200 STD	200 PPB STD	B0778.D	6/26/2008	17:49

FN
6/26/08

Data Path : J:\ACQUDATA\msvoa10\data\062608\
 Data File : B0768.D
 Acq On : 26 Jun 2008 11:33 am
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 154

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	7842	PASS
75	95	30	60	44.9	21232	PASS
95	95	100	100	100.0	47328	PASS
96	95	5	9	6.3	2996	PASS
173	174	0.00	2	0.9	388	PASS
174	95	50	120	94.6	44768	PASS
175	174	5	9	7.1	3163	PASS
176	174	95	101	95.1	42552	PASS
177	176	5	9	7.6	3247	PASS

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: B0832.D BFB Injection Date: 7/1/2008
 Instrument ID: MSVOA10 BFB Injection Time: 1:28
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.5
75	30.0 - 66.0% of mass 95	46.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	50.0 - 120.0% of mass 95	73.6
175	4.0 - 9.0% of mass 174	5.1 (7.0)1
176	93.0 - 101.0% of mass 174	70.8 (96.2)1
177	5.0 - 9.0% of mass 176	4.3 (6.0)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

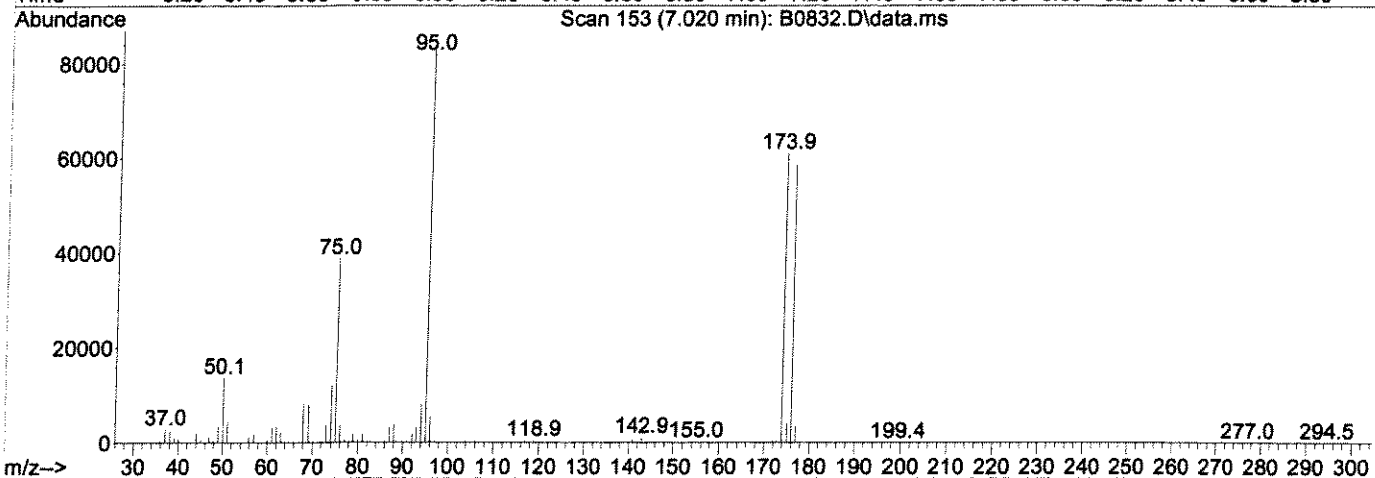
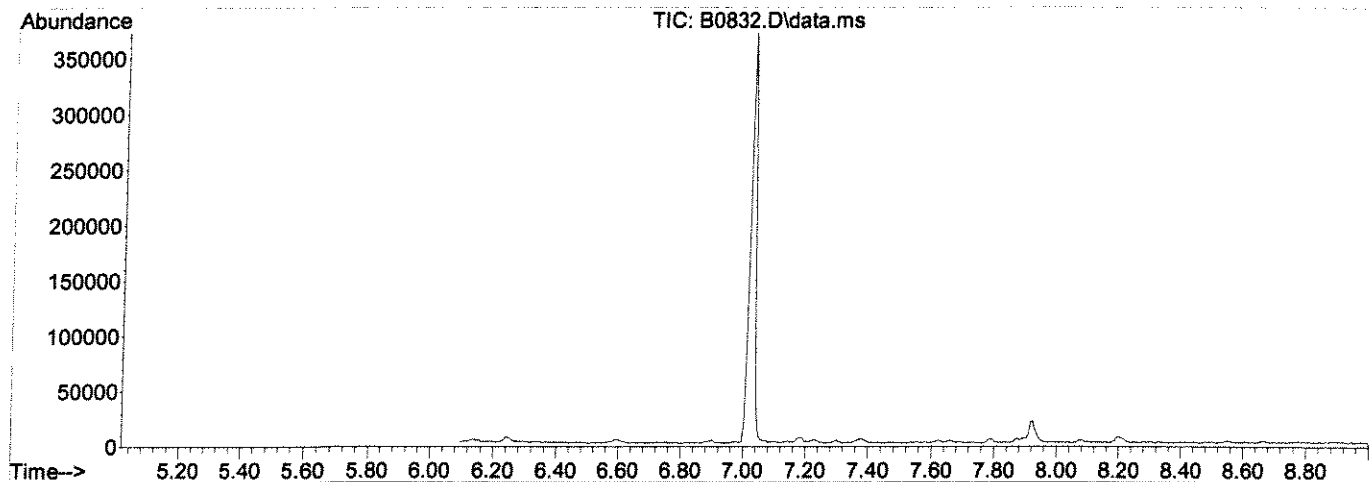
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD 1	VSTD 1	B0833.D	7/1/2008	1:53
02	LCS 1	1119375 1.0	B0834.D	7/1/2008	2:23
03	MET BLK 1	1119374 1.0	B0836.D	7/1/2008	3:23
04	M-44B	1112065 1.0	B0837.D	7/1/2008	3:53
05	M-49AB	1112066 1.0	B0838.D	7/1/2008	4:22
06	FB062408GWAREA\	1112067 1.0	B0839.D	7/1/2008	4:52
07	TRIP BLANK	1112069 1.0	B0840.D	7/1/2008	5:22
08	TRIP BLANK	1112070 1.0	B0841.D	7/1/2008	5:52
09	MC-45B	1112486 1.0	B0842.D	7/1/2008	6:22
10	MC-53B	1112487 1.0	B0843.D	7/1/2008	6:52
11	M-23B	1112488 1.0	B0844.D	7/1/2008	7:21
12	MC-97B	1112489 1.0	B0845.D	7/1/2008	7:51
13	TRIP BLANK	1112490 1.0	B0846.D	7/1/2008	8:21
14	TRIP BLANK	1112491 1.0	B0847.D	7/1/2008	8:51

Data Path : J:\ACQUDATA\msvoa10\data\063008\
 Data File : B0832.D
 Acq On : 1 Jul 2008 1:28 am
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

FN
7/2/08

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 153

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.5	13689	PASS
75	95	30	60	46.7	38776	PASS
95	95	100	100	100.0	82968	PASS
96	95	5	9	6.6	5483	PASS
173	174	0.00	2	0.7	446	PASS
174	95	50	120	73.6	61072	PASS
175	174	5	9	7.0	4263	PASS
176	174	95	101	96.2	58736	PASS
177	176	5	9	6.0	3542	PASS

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CASI\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: B0876.D BFB Injection Date: 7/2/2008
 Instrument ID: MSVOA10 BFB Injection Time: 11:32
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.4
75	30.0 - 66.0% of mass 95	50.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.6 (0.9)1
174	50.0 - 120.0% of mass 95	63.6
175	4.0 - 9.0% of mass 174	5.0 (7.8)1
176	93.0 - 101.0% of mass 174	61.4 (96.6)1
177	5.0 - 9.0% of mass 176	3.9 (6.3)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

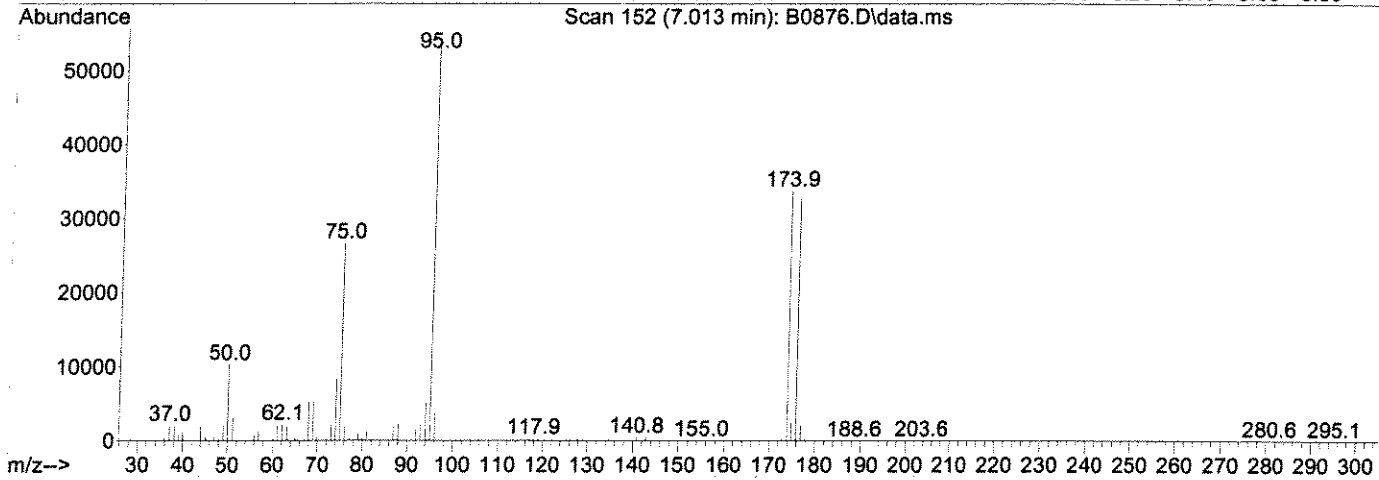
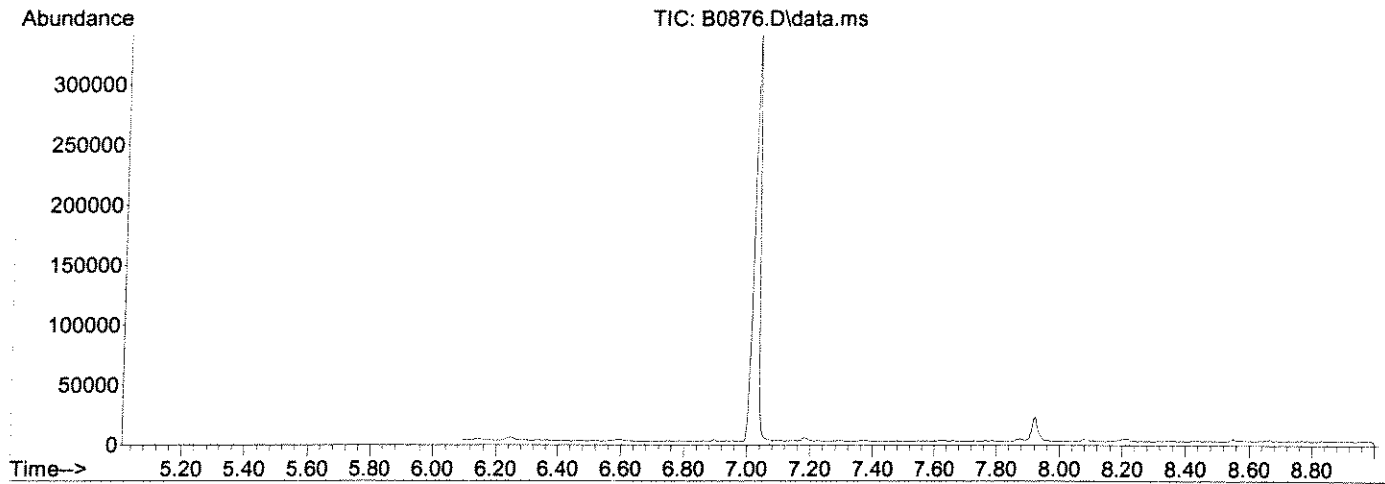
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD 2	VSTD 2	B0877.D	7/2/2008	12:12
02	LCS 2	1119456 1.0	B0879.D	7/2/2008	14:29
03	MET BLK 2	1119455 1.0	B0881.D	7/2/2008	15:38
04	MC-94B	1112809 1.0	B0888.D	7/2/2008	19:19
05	MW-16B	1112810 1.0	B0889.D	7/2/2008	19:49
06	M-5AB	1112811 25.0	B0890.D	7/2/2008	20:19
07	EB062608GW3	1112812 1.0	B0891.D	7/2/2008	20:49
08	TRIP BLANK	1112813 1.0	B0892.D	7/2/2008	21:19
09	M-61B	1112871 1.0	B0893.D	7/2/2008	21:48
10	M-88BB	1112872 1.0	B0894.D	7/2/2008	22:18

Data Path : J:\ACQUDATA\msvoa10\data\070208\
 Data File : B0876.D
 Acq On : 2 Jul 2008 11:32 am
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

FU
7/7/08

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 152

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	10310	PASS
75	95	30	60	50.2	26624	PASS
95	95	100	100	100.0	53048	PASS
96	95	5	9	7.3	3858	PASS
173	174	0.00	2	0.9	313	PASS
174	95	50	120	63.6	33720	PASS
175	174	5	9	7.8	2635	PASS
176	174	95	101	96.6	32584	PASS
177	176	5	9	6.3	2062	PASS

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: B0899.D BFB Injection Date: 7/3/2008
 Instrument ID: MSVOA10 BFB Injection Time: 10:30
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.1
75	30.0 - 66.0% of mass 95	47.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.6 (0.8)1
174	50.0 - 120.0% of mass 95	71.7
175	4.0 - 9.0% of mass 174	5.1 (7.1)1
176	93.0 - 101.0% of mass 174	71.0 (99.1)1
177	5.0 - 9.0% of mass 176	4.9 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

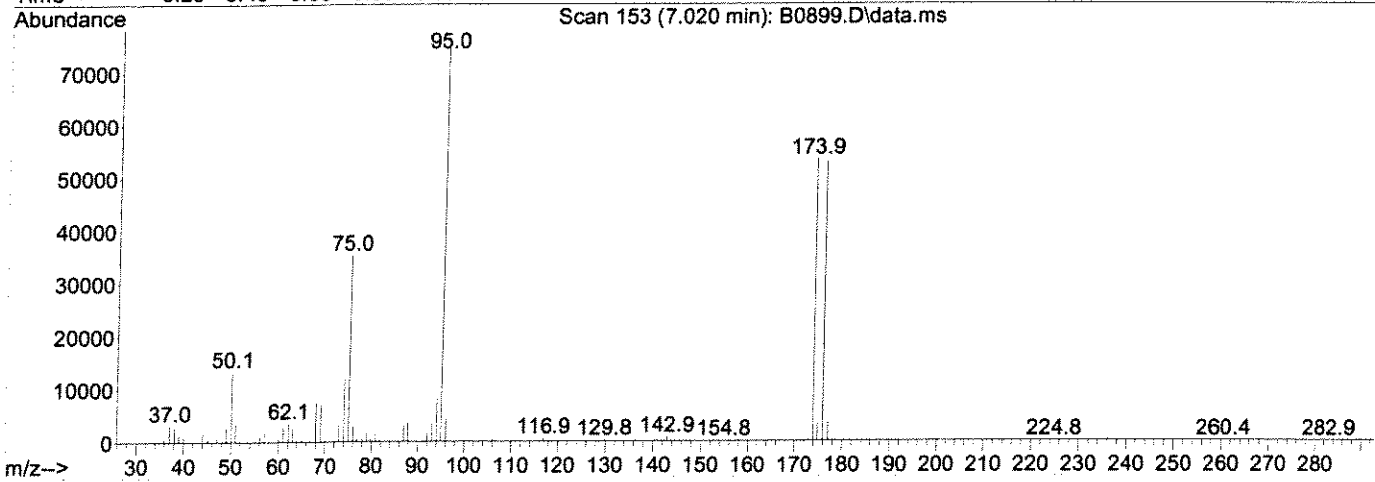
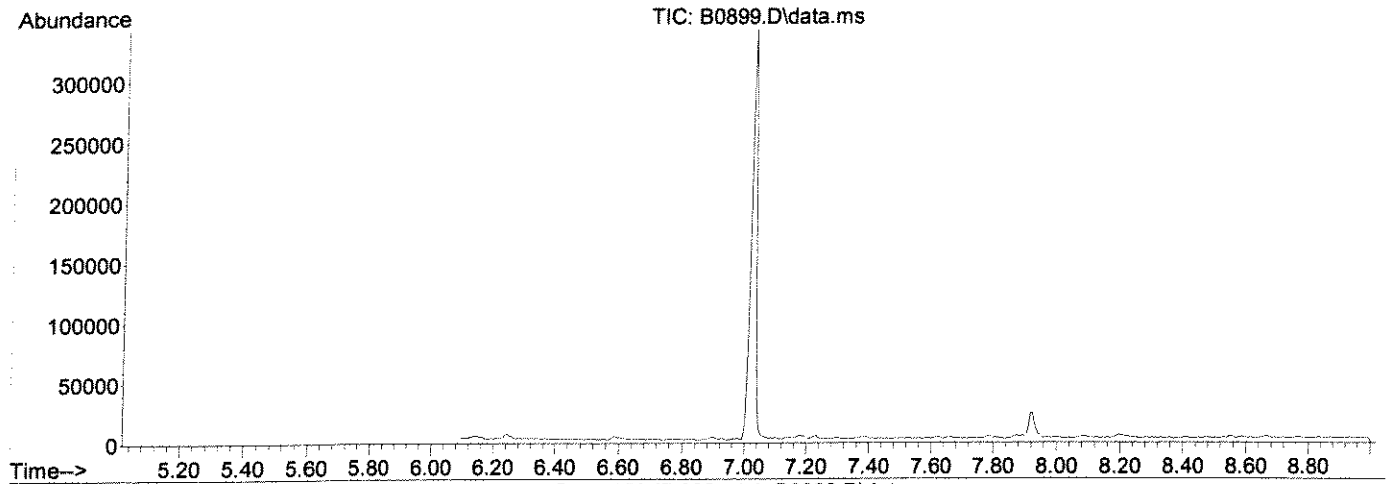
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD 3	VSTD 3	B0900.D	7/3/2008	11:07
02	LCS 3	1119493 1.0	B0901.D	7/3/2008	12:00
03	MET BLK 3	1119492 1.0	B0903.D	7/3/2008	13:13
04	MW-16B DL	1112810 2.0	B0905.D	7/3/2008	14:27
05	M-61B DL	1112871 2.0	B0906.D	7/3/2008	14:57
06	M-88BB DL	1112872 5.0	B0907.D	7/3/2008	15:27
07	M-7BB	1112874 1.0	B0908.D	7/3/2008	15:56
08	TRIP BLANK	1112876 1.0	B0909.D	7/3/2008	16:26
09	TRIP BLANK	1112877 1.0	B0910.D	7/3/2008	16:56
10	M-67B	1113426 1.0	B0911.D	7/3/2008	17:26
11	M-6AB	1113427 1.0	B0912.D	7/3/2008	17:56
12	M-57AB	1113428 1.0	B0913.D	7/3/2008	18:26
13	M-95B	1113429 1.0	B0914.D	7/3/2008	18:55
14	M-68B	1113430 1.0	B0915.D	7/3/2008	19:25
15	TRIP BLANK	1113431 1.0	B0916.D	7/3/2008	19:55
16	TB062708GW3	1113432 1.0	B0917.D	7/3/2008	20:25
17	TRIP BLANK	1113433 1.0	B0918.D	7/3/2008	20:54
18	M-7BB MS	1119494 1.0	B0919.D	7/3/2008	21:24
19	M-7BB MSD	1119495 1.0	B0920.D	7/3/2008	21:54

Data Path : J:\ACQUDATA\msvoa10\data\070308\
 Data File : B0899.D
 Acq On : 3 Jul 2008 10:30 am
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006

FU
7/31/08



Spectrum Information: Scan 153

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	13491	PASS
75	95	30	60	47.4	35336	PASS
95	95	100	100	100.0	74608	PASS
96	95	5	9	5.8	4346	PASS
173	174	0.00	2	0.8	443	PASS
174	95	50	120	71.7	53464	PASS
175	174	5	9	7.1	3778	PASS
176	174	95	101	99.1	52992	PASS
177	176	5	9	6.9	3642	PASS

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: B0994.D BFB Injection Date: 7/9/2008
 Instrument ID: MSVOA10 BFB Injection Time: 9:24
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.0
75	30.0 - 66.0% of mass 95	46.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.6 (0.7)1
174	50.0 - 120.0% of mass 95	78.1
175	4.0 - 9.0% of mass 174	4.8 (6.1)1
176	93.0 - 101.0% of mass 174	74.7 (95.6)1
177	5.0 - 9.0% of mass 176	5.5 (7.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

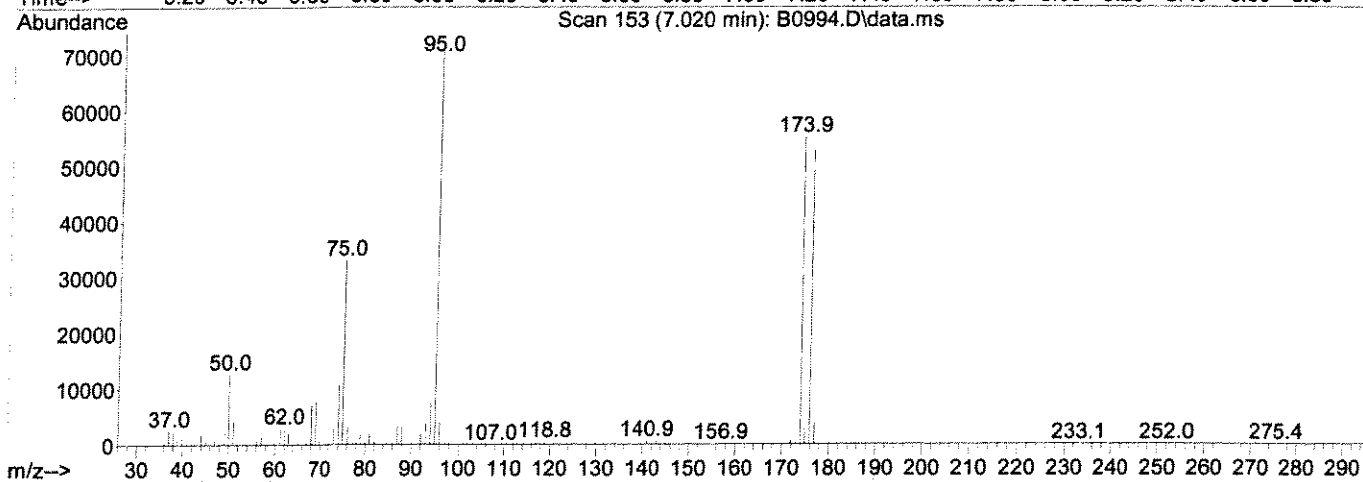
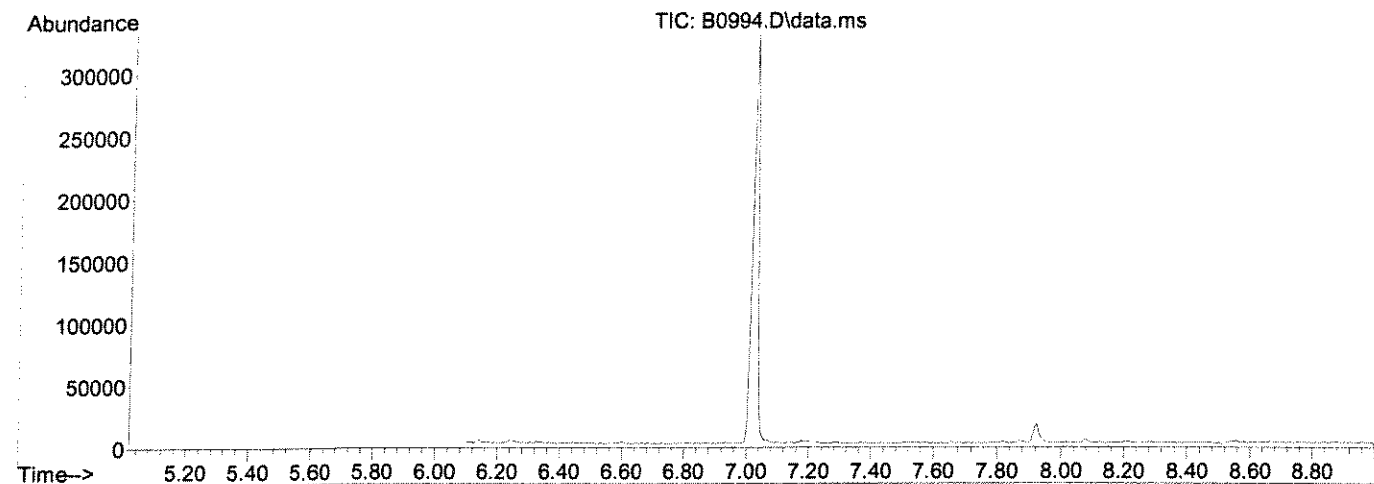
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD 4	VSTD 4	B0996.D	7/9/2008	11:13
02	MET BLK 4	1119512 1.0	B0998.D	7/9/2008	12:39
03	LCS 4	1119513 1.0	B0999.D	7/9/2008	13:32
04	M-67B DL	1113426 5.0	B1013.D	7/9/2008	20:43
05	M-95B DL	1113429 2.5	B1014.D	7/9/2008	21:13

Data Path : J:\ACQUDATA\msvoa10\data\070908\
 Data File : B0994.D
 Acq On : 9 Jul 2008 9:24 am
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

FW 7/31/08

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 153

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	12753	PASS
75	95	30	60	46.8	33120	PASS
95	95	100	100	100.0	70728	PASS
96	95	5	9	5.9	4165	PASS
173	174	0.00	2	0.7	395	PASS
174	95	50	120	78.1	55240	PASS
175	174	5	9	6.1	3392	PASS
176	174	95	101	95.6	52800	PASS
177	176	5	9	7.4	3917	PASS

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CASI\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: B1022.D BFB Injection Date: 7/10/2008
 Instrument ID: MSVOA10 BFB Injection Time: 12:33
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.5
75	30.0 - 66.0% of mass 95	44.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.4 (0.6)1
174	50.0 - 120.0% of mass 95	66.6
175	4.0 - 9.0% of mass 174	5.1 (7.7)1
176	93.0 - 101.0% of mass 174	63.6 (95.4)1
177	5.0 - 9.0% of mass 176	4.4 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

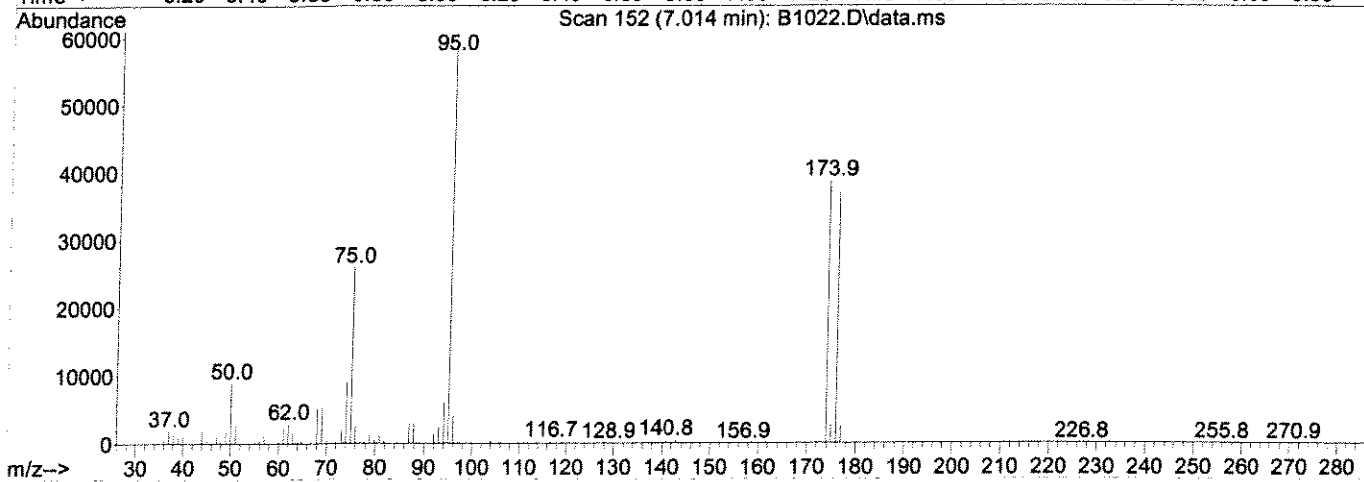
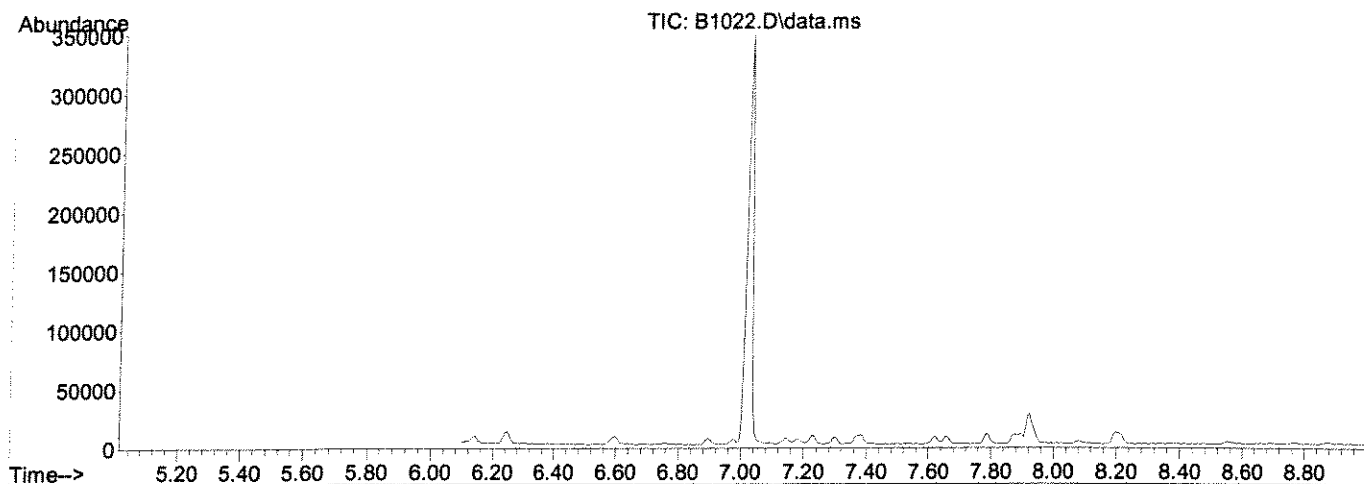
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD 5	VSTD 5	B1023.D	7/10/2008	12:58
02	LCS 5	1119771 1.0	B1024.D	7/10/2008	13:30
03	MET BLK 5	1119770 1.0	B1026.D	7/10/2008	14:41
04	M-68B DL	1113430 2.0	B1041.D	7/10/2008	22:09

Data Path : J:\ACQUDATA\MSVOA10\DATA\071008\Snapshot\
 Data File : B1022.D
 Acq On : 10 Jul 2008 12:33 pm
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

FN
7/16/08

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Title : MS#10 - 8260B WATERS 10mL Purge
 Last Update : Mon Jun 30 10:06:04 2008



Spectrum Information: Scan 152

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	9002	PASS
75	95	30	60	44.7	26016	PASS
95	95	100	100	100.0	58192	PASS
96	95	5	9	7.5	4371	PASS
173	174	0.00	2	0.6	240	PASS
174	95	50	120	66.6	38776	PASS
175	174	5	9	7.7	2983	PASS
176	174	95	101	95.4	36992	PASS
177	176	5	9	6.9	2540	PASS

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASIROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): B0833.D Date Analyzed: 7/1/2008
 Instrument ID: MSVOA10 Time Analyzed: 1:53
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): Y/N

	IS1		IS2		IS3		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1441579	4.44	2278521	5.64	2074889	8.86	
UPPER LIMIT	2883158	4.94	4557042	6.14	4149778	9.36	
LOWER LIMIT	720790	3.94	1139261	5.14	1037445	8.36	
EPA SAMPLE NO.							
01	LCS 1	1475000	4.43	2296977	5.64	2089369	8.86
02	MET BLK 1	1422356	4.44	2242894	5.64	2032429	8.86
03	M-44B	1401876	4.43	2186666	5.64	2008690	8.86
04	M-49AB	1403719	4.43	2210017	5.64	2006076	8.86
05	FB062408GWARZAI	1384290	4.44	2195531	5.64	2000623	8.86
06	TRIP BLANK	1375664	4.44	2194149	5.64	1989057	8.85
07	TRIP BLANK	1373932	4.44	2180085	5.64	1988675	8.86
08	MC-45B	1351914	4.43	2163481	5.64	1975973	8.86
09	MC-53B	1354259	4.43	2169131	5.64	1965654	8.86
10	M-23B	1337078	4.43	2155629	5.64	1978096	8.85
11	MC-97B	1337307	4.43	2160696	5.64	1974874	8.86
12	TRIP BLANK	1329941	4.43	2144439	5.64	1966939	8.86
13	TRIP BLANK	1317189	4.43	2132474	5.64	1957305	8.85

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenzene
 IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): B0833.D Date Analyzed: 07/01/08
 Instrument ID: MSVOA10 Time Analyzed: 01:53
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): N

IS4							
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1148817	10.85					
UPPER LIMIT	2297634	10.35					
LOWER LIMIT	574409	11.35					
EPA SAMPLE NO.							
01	LCS 1	1155046	10.85				
02	MET BLK 1	1093047	10.85				
03	M-44B	1084253	10.85				
04	M-49AB	1092208	10.85				
05	FB062408GW	1071834	10.85				
06	TRIP BLANK	1064554	10.85				
07	TRIP BLANK	1067372	10.85				
08	MC-45B	1073348	10.85				
09	MC-53B	1079060	10.85				
10	M-23B	1071020	10.85				
11	MC-97B	1056209	10.85				
12	TRIP BLANK	1054478	10.85				
13	TRIP BLANK	1040798	10.85				

- IS1 = Pentafluorobenzene
- IS2 = 1,4-Difluorobenzene
- IS3 = d5-Chlorobenzene
- IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASI/ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): B0877.D Date Analyzed: 7/2/2008
 Instrument ID: MSVOA10 Time Analyzed: 12:12
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): N

	IS1		IS2		IS3	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1392839	4.43	2218333	5.63	2036296	8.85
UPPER LIMIT	2785678	4.93	4436666	6.13	4072592	9.35
LOWER LIMIT	696420	3.93	1109167	5.13	1018148	8.35
EPA SAMPLE NO.						
01	LCS 2	1462751	4.43	2318141	5.64	2123290 8.85
02	MET BLK 2	1400876	4.43	2235162	5.64	2035015 8.85
03	MC-94B	1323482	4.44	2159676	5.64	1978877 8.86
04	MW-16B	1321864	4.44	2157278	5.64	1971888 8.86
05	M-5AB	1317080	4.43	2148297	5.64	1982242 8.86
06	EB062608GW3	1317491	4.44	2140882	5.64	1966475 8.86
07	TRIP BLANK	1312398	4.44	2130924	5.64	1955720 8.86
08	M-61B	1305899	4.43	2119053	5.64	1954289 8.86
09	M-88BB	1304435	4.44	2106211	5.64	1951119 8.86

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenzene
 IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): B0877.D Date Analyzed: 07/02/08
 Instrument ID: MSVOA10 Time Analyzed: 12:12
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): YN

IS4							
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1143845	10.85					
UPPER LIMIT	2287690	10.35					
LOWER LIMIT	571923	11.35					
EPA SAMPLE NO.							
01	LCS 2	1155315	10.85				
02	MET BLK 2	1091017	10.85				
03	MC-94B	1065704	10.85				
04	MW-16B	1068266	10.85				
05	M-5AB	1060095	10.85				
06	EB062608GW	1048240	10.85				
07	TRIP BLANK	1049029	10.85				
08	M-61B	1047735	10.85				
09	M-88BB	1051231	10.85				

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenzene
 IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): B0900.D Date Analyzed: 7/3/2008
 Instrument ID: MSVOA10 Time Analyzed: 11:07
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): N

	IS1		IS2		IS3		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1385353	4.43	2255758	5.63	2081989	8.86	
UPPER LIMIT	2770706	4.93	4511516	6.13	4163978	9.36	
LOWER LIMIT	692677	3.93	1127879	5.13	1040995	8.36	
EPA SAMPLE NO.							
01	LCS 3	1441700	4.43	2310521	5.64	2134737	8.85
02	MET BLK 3	1384840	4.43	2245574	5.64	2061636	8.85
03	MW-16B DL	1415027	4.44	2287103	5.64	2095511	8.86
04	M-61B DL	1391943	4.43	2254173	5.64	2076576	8.86
05	M-88BB DL	1373681	4.43	2227102	5.64	2058484	8.86
06	M-7BB	1351291	4.43	2203798	5.64	2030616	8.86
07	TRIP BLANK	1338553	4.43	2195529	5.64	2023508	8.86
08	TRIP BLANK	1328250	4.43	2165086	5.64	2004428	8.86
09	M-67B	1360363	4.43	2200749	5.64	2027846	8.86
10	M-6AB	1314334	4.44	2154085	5.64	1990521	8.86
11	M-57AB	1315589	4.43	2156442	5.64	2000011	8.85
12	M-95B	1336977	4.43	2165746	5.64	2008165	8.86
13	M-68B	1326408	4.43	2154305	5.64	1990381	8.86
14	TRIP BLANK	1286831	4.43	2148255	5.64	1977003	8.85
15	TB062708GW3	1292997	4.44	2140979	5.64	1980166	8.86
16	TRIP BLANK	1294200	4.43	2145868	5.64	1987896	8.86
17	M-7BB MS	1356689	4.43	2229498	5.64	2086457	8.86
18	M-7BB MSD	1426292	4.43	2320424	5.64	2162012	8.85

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenzene
 IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASIROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): B0900.D Date Analyzed: 07/03/08
 Instrument ID: MSVOA10 Time Analyzed: 11:07
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): YN

		IS4					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		1161731	10.85				
UPPER LIMIT		2323462	10.35				
LOWER LIMIT		580866	11.35				
EPA SAMPLE NO.							
01	LCS 3	1159305	10.85				
02	MET BLK 3	1101343	10.85				
03	MW-16B DL	1133494	10.85				
04	M-61B DL	1105797	10.85				
05	M-88BB DL	1095235	10.85				
06	M-7BB	1087787	10.85				
07	TRIP BLANK	1079581	10.85				
08	TRIP BLANK	1076508	10.85				
09	M-67B	1083431	10.85				
10	M-6AB	1069834	10.85				
11	M-57AB	1066258	10.85				
12	M-95B	1076009	10.85				
13	M-68B	1071808	10.85				
14	TRIP BLANK	1062168	10.85				
15	TB062708GW	1046561	10.85				
16	TRIP BLANK	1056349	10.85				
17	M-7BB MS	1170118	10.85				
18	M-7BB MSD	1198940	10.85				

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenzene
 IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): B0996.D Date Analyzed: 7/9/2008
 Instrument ID: MSVOA10 Time Analyzed: 11:13
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): N

	IS1		IS2		IS3	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1443677	4.43	2343165	5.63	2212633	8.86
UPPER LIMIT	2887354	4.93	4686330	6.13	4425266	9.36
LOWER LIMIT	721839	3.93	1171583	5.13	1106317	8.36
EPA SAMPLE NO.						
01	MET BLK 4	1365928	4.43	2236322	5.64	2101967 8.86
02	LCS 4	1397908	4.43	2301777	5.64	2145931 8.86
03	M-67B DL	1352459	4.43	2233690	5.64	2105965 8.86
04	M-95B DL	1317486	4.43	2182106	5.64	2076091 8.85

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenzene
 IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASI\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): B0996.D Date Analyzed: 07/09/08
 Instrument ID: MSVOA10 Time Analyzed: 11:13
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): YN

IS4							
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1234783	10.85					
UPPER LIMIT	2469566	10.35					
LOWER LIMIT	617392	11.35					
EPA SAMPLE NO.							
01	MET BLK 4	1124564	10.85				
02	LCS 4	1189137	10.85				
03	M-67B DL	1115504	10.85				
04	M-95B DL	1101520	10.85				

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenzene
 IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): B1023.D Date Analyzed: 7/10/2008
 Instrument ID: MSVOA10 Time Analyzed: 12:58
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): N

	IS1		IS2		IS3		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1445520	4.43	2339781	5.64	2222826	8.86	
UPPER LIMIT	2891040	4.93	4679562	6.14	4445652	9.36	
LOWER LIMIT	722760	3.93	1169891	5.14	1111413	8.36	
EPA SAMPLE NO.							
01	LCS 5	1472263	4.43	2387297	5.64	2252572	8.86
02	MET BLK 5	1417516	4.43	2299055	5.64	2171582	8.86
03	M-68B DL	1379458	4.44	2250755	5.64	2134136	8.86

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenzene
 IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: ENSR INT
 Lab Code: 10145 Case No.: R8-44650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): B1023.D Date Analyzed: 07/10/08
 Instrument ID: MSVOA10 Time Analyzed: 12:58
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): YN

IS4							
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1234687	10.85					
UPPER LIMIT	2469374	10.35					
LOWER LIMIT	617344	11.35					
EPA SAMPLE NO.							
01	LCS 5	1229542	10.85				
02	MET BLK 5	1171369	10.85				
03	M-68B DL	1147721	10.85				

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenzene
 IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

Columbia Analytical Services

MDL Study Report

Analytical Method: 82.60B
Extraction Method: EPA 5035/5030B
Matrix: LIQUID
Instrument: MSVOA10

MDL Study ID: MDL_278

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
1,1,1,2-Tetrachloroethane	0.300	0.276	0.0151	3.143	0.048	ug/L	5	92	Valid MDL Data
1,1,1-Trichloroethane (TCA)	0.500	0.444	0.0237	3.143	0.075	ug/L	5	89	Valid MDL Data
1,1,2,2-Tetrachloroethane	0.300	0.299	0.0234	3.143	0.074	ug/L	8	100	Valid MDL Data
1,1,2-Trichloroethane	0.300	0.300	0.0238	3.143	0.075	ug/L	8	100	Valid MDL Data
1,1-Dichloroethane	0.300	0.289	0.0324	3.143	0.10	ug/L	11	96	Valid MDL Data
1,1-Dichloroethene	0.300	0.287	0.0450	3.143	0.14	ug/L	16	96	Valid MDL Data
1,1-Dichloropropene	0.300	0.309	0.0422	3.143	0.13	ug/L	14	103	Valid MDL Data
1,2,3-Trichlorobenzene	0.300	0.331	0.0389	3.143	0.12	ug/L	12	110	Valid MDL Data
1,2,3-Trichloropropane	0.300	0.277	0.0309	3.143	0.097	ug/L	11	92	Valid MDL Data
1,2,4-Trichlorobenzene	0.300	0.346	0.0299	3.143	0.094	ug/L	9	115	Valid MDL Data
1,2,4-Trimethylbenzene	0.300	0.250	0.0277	3.143	0.087	ug/L	11	83	Valid MDL Data
1,2-Dibromo-3-chloropropane (DBCP)	0.300	0.310	0.0294	3.143	0.093	ug/L	9	103	Valid MDL Data
1,2-Dibromoethane (EDB)	0.300	0.284	0.0237	3.143	0.075	ug/L	8	95	Valid MDL Data
1,2-Dichloro-1,1,2-trifluoroethane (C	0.300	0.296	0.0387	3.143	0.12	ug/L	13	99	Valid MDL Data
1,2-Dichlorobenzene	0.300	0.317	0.0315	3.143	0.099	ug/L	10	106	Valid MDL Data
1,2-Dichloroethane (EDC)	0.300	0.297	0.0269	3.143	0.085	ug/L	9	99	Valid MDL Data
1,2-Dichloropropane	0.300	0.310	0.0327	3.143	0.10	ug/L	11	103	Valid MDL Data
1,3,5-Trimethylbenzene	0.300	0.254	0.0310	3.143	0.097	ug/L	12	85	Valid MDL Data
1,3-Dichlorobenzene	0.300	0.309	0.0418	3.143	0.13	ug/L	14	103	Valid MDL Data
1,3-Dichloropropane	0.300	0.293	0.0198	3.143	0.062	ug/L	7	98	Valid MDL Data
1,4-Dichlorobenzene	0.300	0.337	0.0304	3.143	0.096	ug/L	9	112	Valid MDL Data
1,4-Dioxane	10.0	6.75	2.26	3.143	7.1	ug/L	34	67	Valid MDL Data
2,2-Dichloro-1,1,1-trifluoroethane (C	0.300	0.280	0.0351	3.143	0.11	ug/L	13	93	Valid MDL Data
2,2-Dichloropropane	0.500	0.313	0.0325	3.143	0.10	ug/L	10	63	Valid MDL Data
2-Butanone (MEK)	0.500	0.590	0.0469	3.143	0.15	ug/L	8	118	Valid MDL Data
2-Chloro-1,3-butadiene	0.300	0.273	0.0395	3.143	0.12	ug/L	14	91	Valid MDL Data
2-Chloroethyl Vinyl Ether	0.500	0.266	0.0640	3.143	0.20	ug/L	24	53	Valid MDL Data
2-Chlorotoluene	0.300	0.287	0.0330	3.143	0.10	ug/L	12	96	Valid MDL Data
2-Hexanone	0.500	0.361	0.0339	3.143	0.11	ug/L	9	72	Valid MDL Data
2-Propanol	6.00	5.63	0.695	3.143	2.2	ug/L	12	94	Valid MDL Data
4-Chlorotoluene	0.300	0.287	0.0330	3.143	0.10	ug/L	12	96	Valid MDL Data

Supervisor Approval: _____

QA/QC Approval: _____

Columbia Analytical Services

MDL Study Report

Analytical Method: 8260B
 Extraction Method: EPA 5035/5030B
 Matrix: LIQUID
 Instrument: MSVOA10

MDL Study ID: MDL278

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
4-Isopropyltoluene	0.500	0.406	0.0207	3.143	0.065	ug/L	5	81	Valid MDL Data
4-Methyl-2-pentanone (MIBK)	0.500	0.393	0.0475	3.143	0.15	ug/L	12	79	Valid MDL Data
Acetone	0.500	1.78	0.306	3.143	0.96	ug/L	17	357	Spike level too low (MDL>Spike)
Acetonitrile	2.50	4.01	0.994	3.143	3.1	ug/L	25	161	Spike level too low (MDL>Spike)
Acrolein	2.50	2.34	0.343	3.143	1.1	ug/L	15	94	Valid MDL Data
Acrylonitrile	1.50	1.51	0.0856	3.143	0.27	ug/L	6	101	Valid MDL Data
Allyl Chloride	0.300	0.276	0.0305	3.143	0.096	ug/L	11	92	Valid MDL Data
Benzene	0.300	0.304	0.0282	3.143	0.089	ug/L	9	101	Valid MDL Data
Bromobenzene	0.300	0.320	0.0238	3.143	0.075	ug/L	7	107	Valid MDL Data
Bromochloromethane	0.300	0.344	0.0215	3.143	0.068	ug/L	6	115	Valid MDL Data
Bromodichloromethane	0.300	0.280	0.0283	3.143	0.089	ug/L	10	93	Valid MDL Data
Bromoform	0.300	0.289	0.0426	3.143	0.13	ug/L	15	96	Valid MDL Data
Bromomethane	0.300	0.320	0.0396	3.143	0.12	ug/L	12	107	Valid MDL Data
Carbon Disulfide	0.300	0.334	0.0382	3.143	0.12	ug/L	11	111	Valid MDL Data
Carbon Tetrachloride	0.300	0.260	0.0337	3.143	0.11	ug/L	13	87	Valid MDL Data
Chlorobenzene	0.300	0.304	0.0230	3.143	0.072	ug/L	8	101	Valid MDL Data
Chloroethane	0.300	0.303	0.0395	3.143	0.12	ug/L	13	101	Valid MDL Data
Chloroform	0.300	0.293	0.0293	3.143	0.092	ug/L	10	98	Valid MDL Data
Chloromethane	0.300	0.321	0.0348	3.143	0.11	ug/L	11	107	Valid MDL Data
cis-1,2-Dichloroethene	0.300	0.299	0.0344	3.143	0.11	ug/L	12	100	Valid MDL Data
cis-1,3-Dichloropropene	0.300	0.244	0.0151	3.143	0.048	ug/L	6	81	Valid MDL Data
Cyclohexane	0.300	0.299	0.0261	3.143	0.082	ug/L	9	100	Valid MDL Data
Cyclohexanone	6.00	4.37	0.553	3.143	1.7	ug/L	13	73	Valid MDL Data
Dibromochloromethane	0.300	0.266	0.0223	3.143	0.070	ug/L	8	89	Valid MDL Data
Dibromomethane	0.300	0.309	0.0313	3.143	0.098	ug/L	10	103	Valid MDL Data
Dichlorodifluoromethane	0.500	0.333	0.0538	3.143	0.17	ug/L	16	67	Valid MDL Data
Dichlorofluoromethane (CFC 21)	0.300	0.291	0.0285	3.143	0.090	ug/L	10	97	Valid MDL Data
Diethyl Ether	0.300	0.290	0.0245	3.143	0.077	ug/L	8	97	Valid MDL Data
Diisopropyl Ether	0.300	0.291	0.0212	3.143	0.066	ug/L	7	97	Valid MDL Data
DTBE	0.300	0.271	0.0241	3.143	0.076	ug/L	9	90	Valid MDL Data
Ethyl Methacrylate	0.300	1.74	0.0195	3.143	0.061	ug/L	1	580	Valid MDL Data

Supervisor Approval: _____

QA/QC Approval: _____

Columbia Analytical Services

MDL Study Report

MDL Study ID: MDL278

Analytical Method: 8260B
 Extraction Method: EPA 5035/5030B
 Matrix: LIQUID
 Instrument: MSVOA10

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
Ethylbenzene	0.300	0.281	0.0279	3.143	0.088	ug/L	10	94	Valid MDL Data
Hexachlorobutadiene	0.300	0.339	0.0363	3.143	0.11	ug/L	11	113	Valid MDL Data
Iodomethane (Methyl Iodide)	0.300	0.243	0.0256	3.143	0.081	ug/L	11	81	Valid MDL Data
Isobutyl Alcohol	10.0	69.8	0.646	3.143	2.0	ug/L	1	698	Valid MDL Data
Isopropylbenzene	0.300	0.250	0.0332	3.143	0.10	ug/L	13	83	Valid MDL Data
m,p-Xylenes	0.600	0.551	0.0644	3.143	0.20	ug/L	12	92	Valid MDL Data
Methacrylonitrile	0.500	0.476	0.0346	3.143	0.11	ug/L	7	95	Valid MDL Data
Methyl Acetate	0.300	0.379	0.0372	3.143	0.12	ug/L	10	126	Valid MDL Data
Methyl Methacrylate	0.300	1.69	0.0198	3.143	0.062	ug/L	1	562	Valid MDL Data
Methyl tert-Butyl Ether	0.300	0.279	0.0195	3.143	0.061	ug/L	7	93	Valid MDL Data
Methylcyclohexane	0.300	0.284	0.0479	3.143	0.15	ug/L	17	95	Valid MDL Data
Methylene Chloride	0.300	0.420	0.0351	3.143	0.11	ug/L	8	140	Valid MDL Data
Naphthalene	0.300	0.769	0.0254	3.143	0.080	ug/L	3	256	Valid MDL Data
n-Butylbenzene	0.300	0.273	0.0359	3.143	0.11	ug/L	13	91	Valid MDL Data
n-Heptane	0.300	0.299	0.0339	3.143	0.11	ug/L	11	100	Valid MDL Data
n-Propylbenzene	0.300	0.280	0.0342	3.143	0.11	ug/L	12	93	Valid MDL Data
o-Xylene	0.300	0.271	0.0353	3.143	0.11	ug/L	13	90	Valid MDL Data
Propionitrile	1.50	1.42	0.163	3.143	0.51	ug/L	11	95	Valid MDL Data
sec-Butylbenzene	0.500	0.399	0.0212	3.143	0.066	ug/L	5	80	Valid MDL Data
Styrene	0.300	0.241	0.0219	3.143	0.069	ug/L	9	80	Valid MDL Data
TAME	0.300	0.269	0.0261	3.143	0.082	ug/L	10	90	Valid MDL Data
tert-Butyl Alcohol	6.00	6.76	0.556	3.143	1.7	ug/L	8	113	Valid MDL Data
tert-Butylbenzene	0.500	0.400	0.0283	3.143	0.089	ug/L	7	80	Valid MDL Data
Tetrachloroethene (PCE)	0.300	0.299	0.0426	3.143	0.13	ug/L	14	100	Valid MDL Data
Tetrahydrofuran	0.300	0.719	0.0537	3.143	0.17	ug/L	7	240	Valid MDL Data
Toluene	0.300	0.301	0.0248	3.143	0.078	ug/L	8	100	Valid MDL Data
trans-1,2-Dichloroethene	0.300	0.296	0.0294	3.143	0.092	ug/L	10	99	Valid MDL Data
trans-1,3-Dichloropropene	0.300	0.240	0.0173	3.143	0.054	ug/L	7	80	Valid MDL Data
trans-1,4-Dichloro-2-butene	0.300	0.283	0.0642	3.143	0.20	ug/L	23	94	Valid MDL Data
Trichloroethene (TCE)	0.300	0.324	0.0399	3.143	0.13	ug/L	12	108	Valid MDL Data
Trichlorofluoromethane	0.300	0.274	0.0310	3.143	0.097	ug/L	11	91	Valid MDL Data

QA/QC Approval:

Supervisor Approval:

Columbia Analytical Services

MDL Study Report

Analytical Method: 8260B
 Extraction Method: EPA 5035/5030B
 Matrix: LIQUID
 Instrument: MSVOA10
 Column: MS
 MDL Study ID: MDL278

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
Trichlorotrifluoroethane	0.300	0.290	0.0396	3.143	0.12	ug/L	14	97	Valid MDL Data
Vinyl Acetate	0.500	2.62	0.117	3.143	0.37	ug/L	4	523	Valid MDL Data
Vinyl Chloride	0.300	0.286	0.0355	3.143	0.11	ug/L	12	95	Valid MDL Data

00108

Supervisor Approval: _____

QA/QC Approval: _____

VOLATILE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-44B

Date Sampled : 06/24/08 09:10 Order #: 1112065 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.2 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	0.22 J	UG/L
BROMOFORM	1.0	1.0	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	3.6 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	0.31 J	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	2.1	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	34	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	1.1 J	UG/L
1,4-DICHLOROBENZENE	2.0	0.67 J	UG/L
1,3-DICHLOROBENZENE	2.0	0.47 J	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-44B

Date Sampled : 06/24/08 09:10 Order #: 1112065 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	1.0 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	0.99 J	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	0.53 J	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	0.30 J	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Sample : 1112065 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0837.D Vial: 25
 Acq On : 1 Jul 2008 3:53 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 01 04:07:22 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

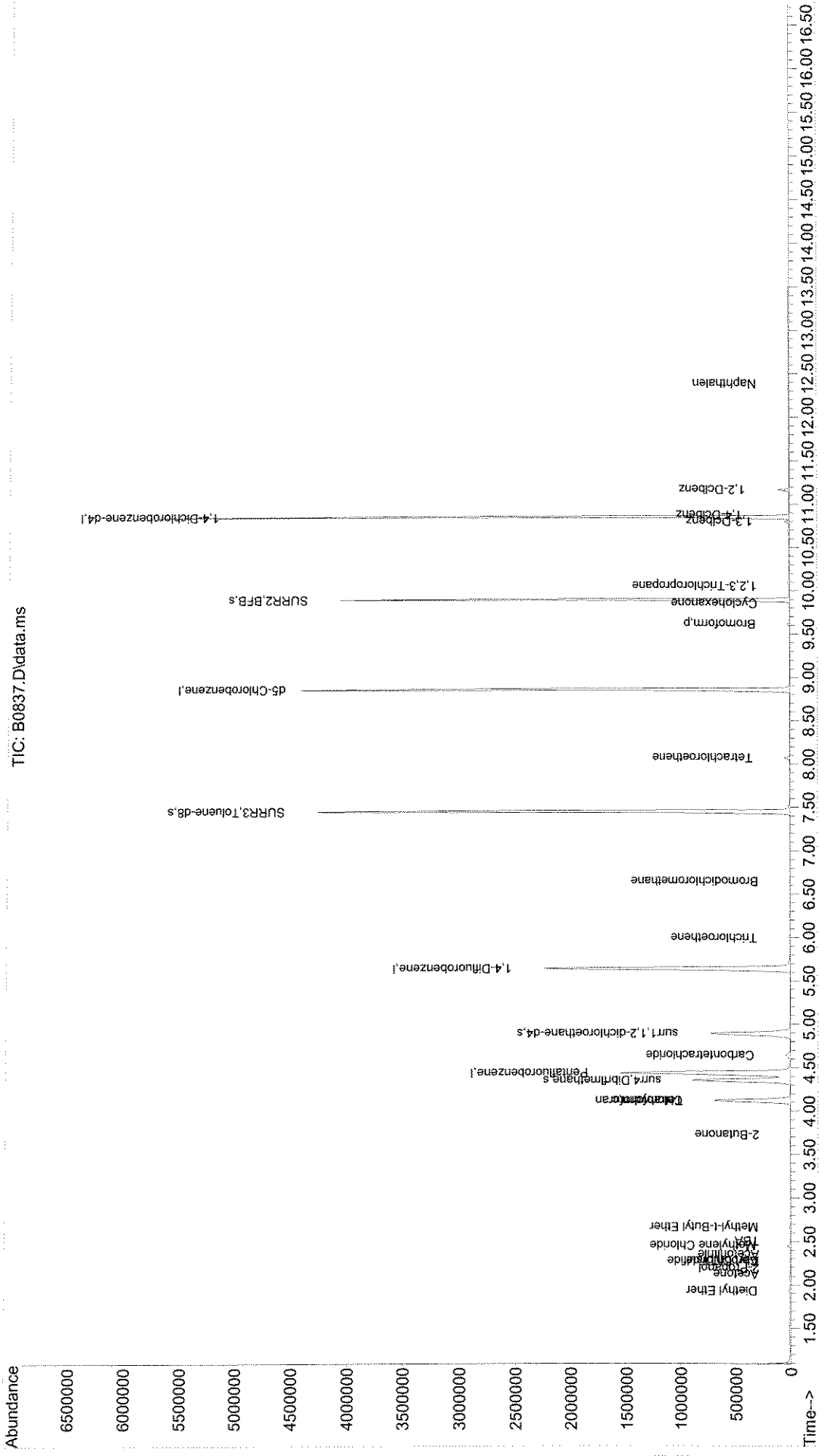
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1401876	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2186666	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2008690	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1084253	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	700840	48.71	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	97.42%		
49) surr1,1,2-dichloroetha...	4.891	65	742842	54.05	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.10%		
65) SURR3,Toluene-d8	7.451	98	2594402	54.50	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.00%		
70) SURR2,BFB	9.896	95	1037794	52.94	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.88%		
Target Compounds							
10) Diethyl Ether	1.934	59	4321	0.68	ug/L		94 NT
16) Acetone	2.123	43	2120	1.23	ug/L		80 JB
17) 2-Propanol	2.190	45	540	1.47	ug/L #		26
19) Carbon Disulfide	2.276	76	7482	0.21	ug/L		97 NT
20) Acetonitrile	2.349	40	1169	4.83	ug/L #		1
21) Allyl Chloride	2.276	76	7384	1.40	ug/L #		1
23) Methylene Chloride	2.452	84	11963	1.02	ug/L		95 J
24) TBA	2.507	59	2071	3.55	ug/L		81 J
26) Methyl-t-Butyl Ether	2.666	73	7541	0.31	ug/L #		95
35) 2-Butanone	3.727	43	631	0.22	ug/L #		63
40) Tetrahydrofuran	4.117	42	2599	1.56	ug/L #		1
41) Chloroform	4.117	83	684551	33.66	ug/L		99
47) Carbontetrachloride	4.641	121	11208	2.07	ug/L		99
54) Trichloroethene	5.994	130	6382	0.53	ug/L		96
60) Bromodichloromethane	6.647	83	3397	0.22	ug/L #		92 J
72) Tetrachloroethene	8.073	164	9875	0.99	ug/L		97
83) Bromoform	9.616	173	7199	1.02	ug/L		90
85) Cyclohexanone	9.853	55	2159	2.37	ug/L #		40
91) 1,2,3-Trichloropropane	10.055	110	894	0.30	ug/L #		52
100) 1,3-Dclbenz	10.798	146	12903	0.47	ug/L		100 J
101) 1,4-Dclbenz	10.872	146	18817	0.67	ug/L		91
104) 1,2-Dclbenz	11.164	146	28960	1.13	ug/L		98
109) Naphthalen	12.383	128	1894	0.58	ug/L #		93 SB < LR

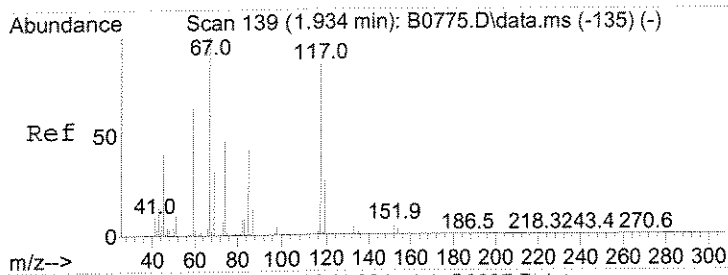
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FN
7/1/08

Sample : 1112065 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0837.D Vial: 25
 Acq On : 1 Jul 2008 3:53 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

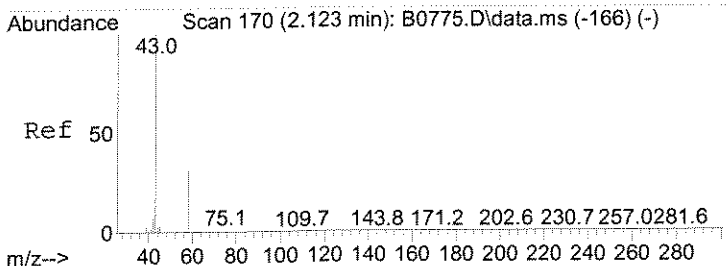
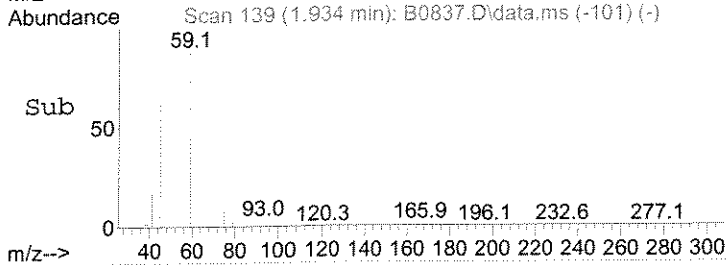
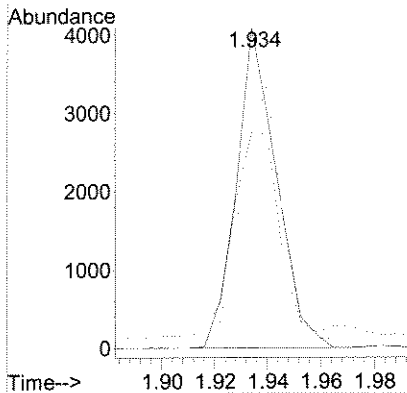
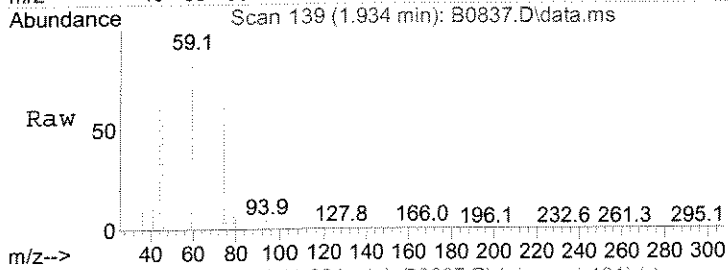
Quant Time: Jul 01 04:07:22 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





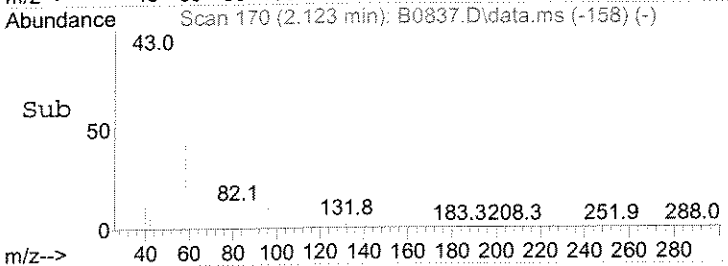
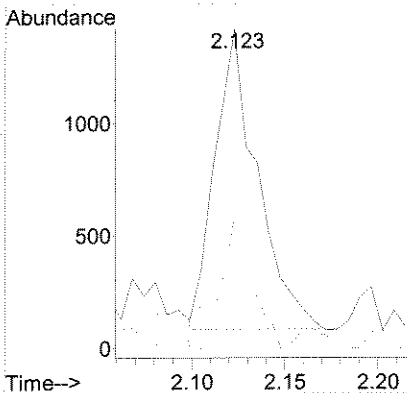
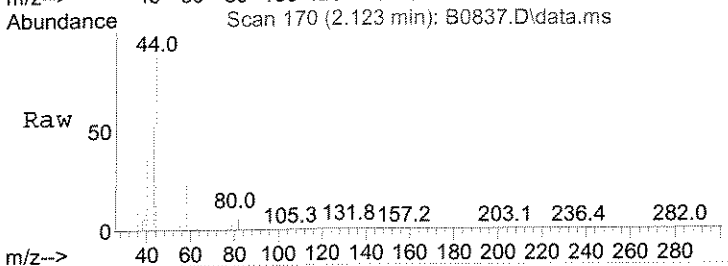
#10
 Diethyl Ether
 Concen: 0.68 ug/L
 RT: 1.934 min Scan# 139
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

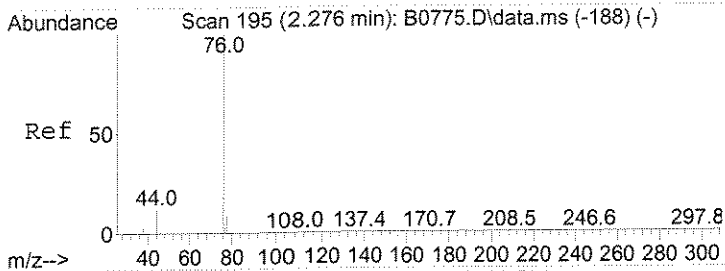
Tgt Ion	Resp	Lower	Upper
59	100		
45	67.4	31.6	94.7
74	67.7	36.7	110.1



#16
 Acetone
 Concen: 1.23 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

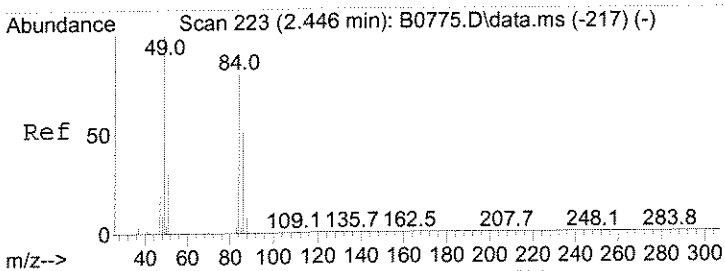
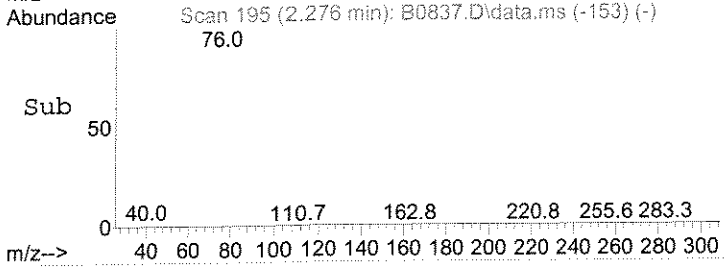
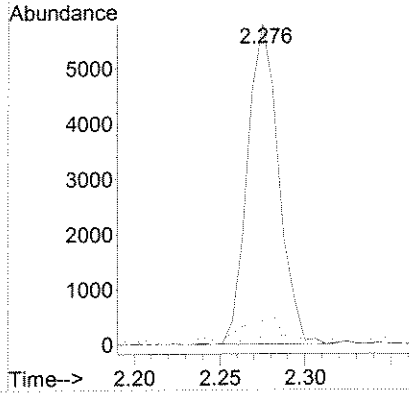
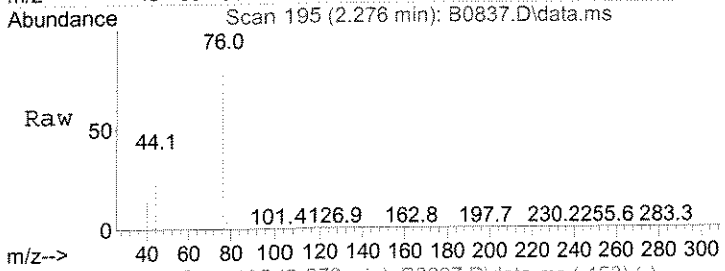
Tgt Ion	Resp	Lower	Upper
43	100		
58	41.6	0.9	60.9
42	14.5	0.0	37.2





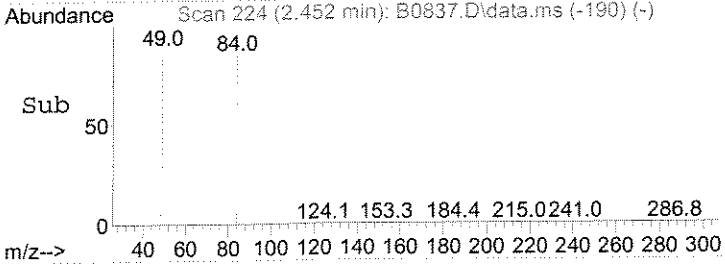
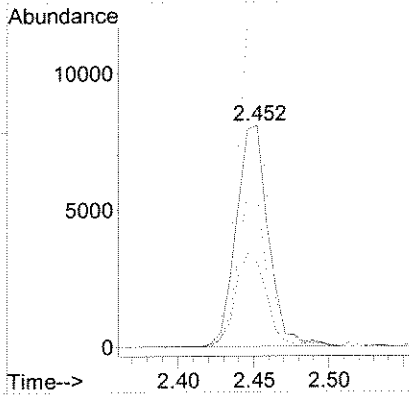
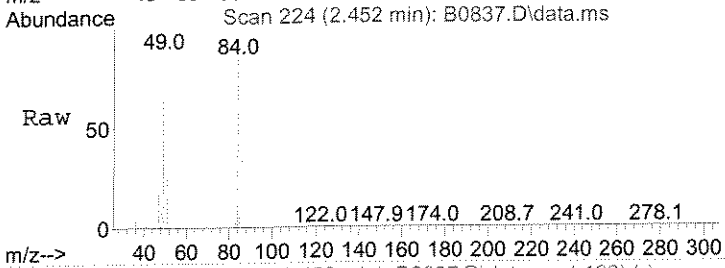
#19
 Carbon Disulfide
 Concen: 0.21 ug/L
 RT: 2.276 min Scan# 195
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

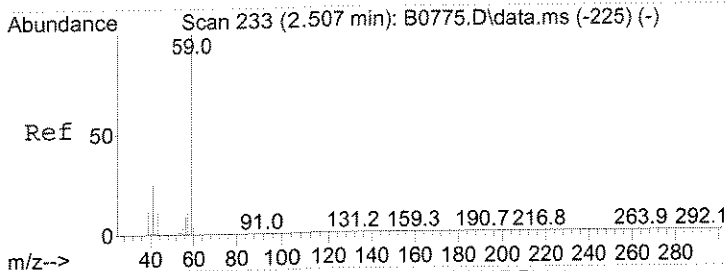
Tgt Ion	Resp	Lower	Upper
76	100		
78	7.5	6.9	10.3
77	2.0	2.0	3.0



#23
 Methylene Chloride
 Concen: 1.02 ug/L
 RT: 2.452 min Scan# 224
 Delta R.T. 0.006 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

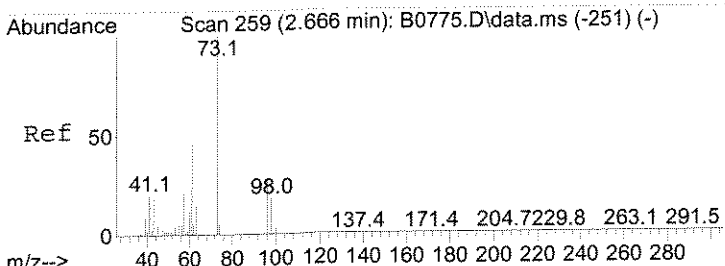
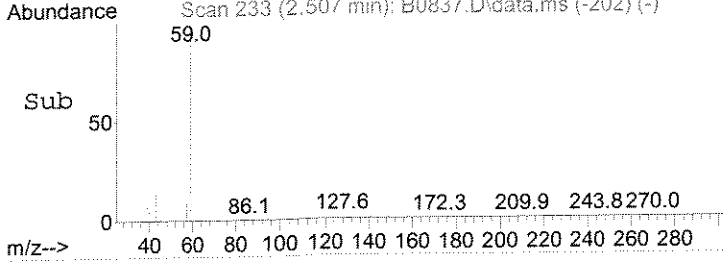
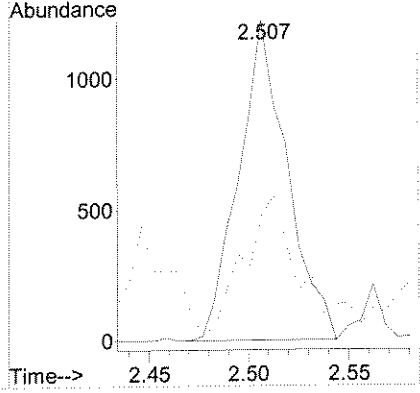
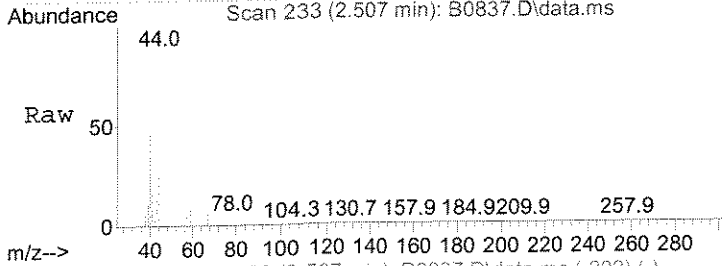
Tgt Ion	Resp	Lower	Upper
84	100		
86	67.2	50.5	75.7
49	117.3	99.5	149.3
51	37.5	31.1	46.7





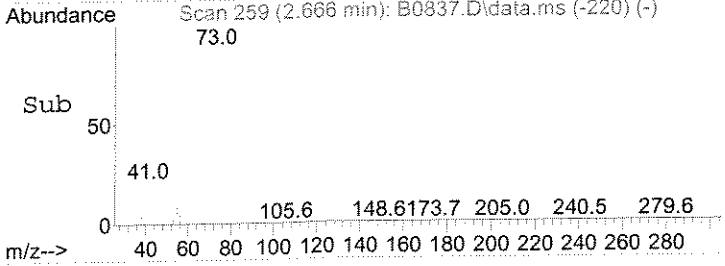
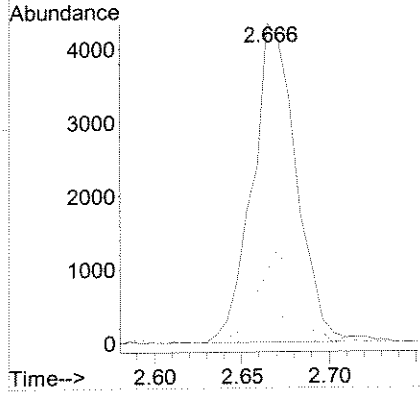
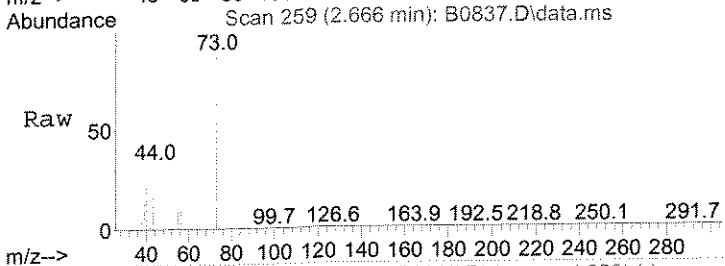
#24
 TBA
 Concen: 3.55 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

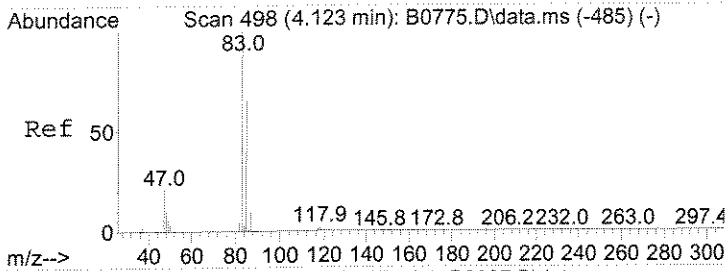
Tgt Ion	Resp	Ion	Ratio	Lower	Upper
59	2071	59	100		
41		41	39.4	14.5	43.6



#26
 Methyl-t-Butyl Ether
 Concen: 0.31 ug/L
 RT: 2.666 min Scan# 259
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

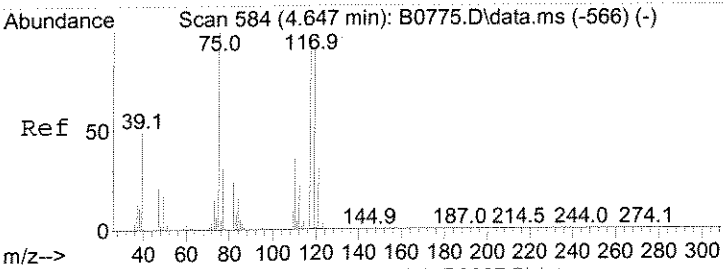
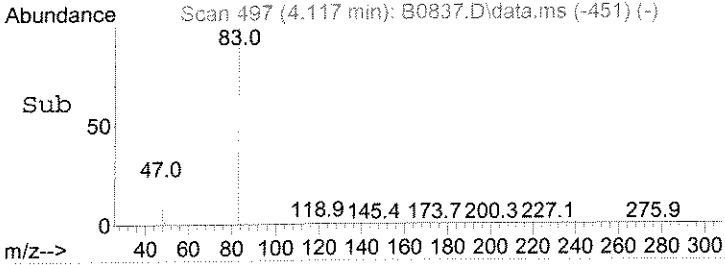
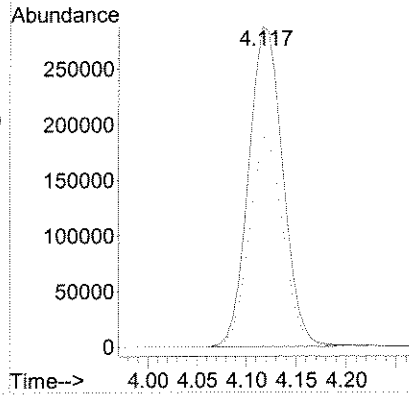
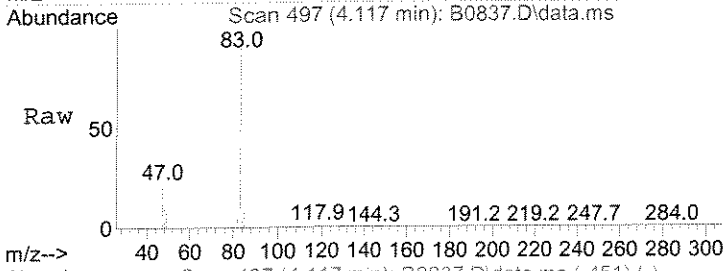
Tgt Ion	Resp	Ion	Ratio	Lower	Upper
73	7541	73	100		
57		57	22.9	17.0	25.6
55		55	9.8	4.2	6.4#





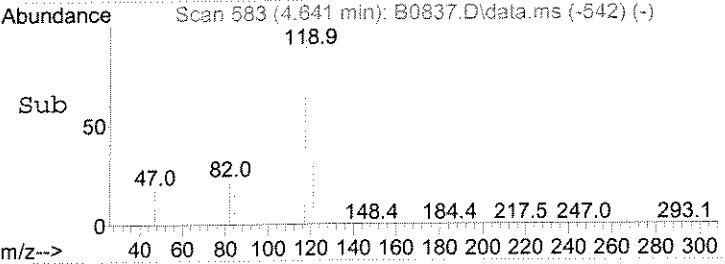
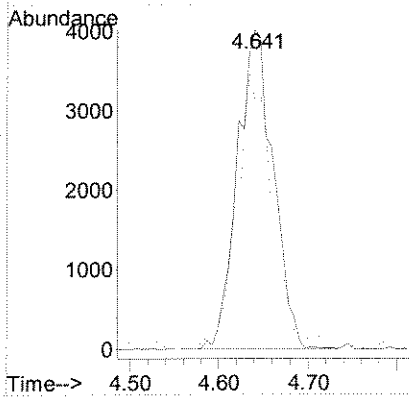
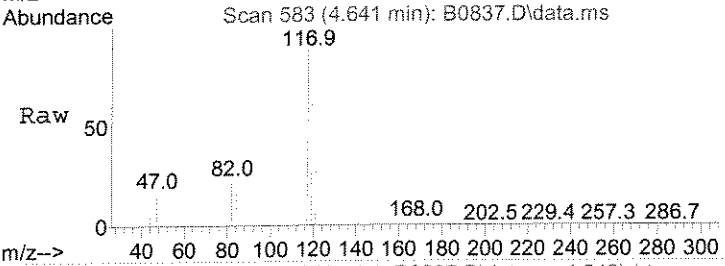
#41
 Chloroform
 Concen: 33.66 ug/L
 RT: 4.117 min Scan# 497
 Delta R.T. -0.006 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

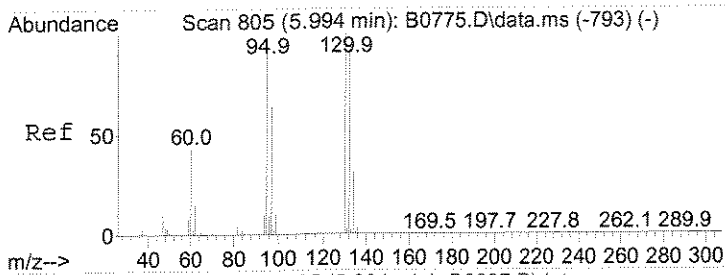
Tgt Ion	Resp	Lower	Upper
83	100		
85	65.3	51.7	77.5
47	21.7	17.1	25.7



#47
 Carbontetrachloride
 Concen: 2.07 ug/L
 RT: 4.641 min Scan# 583
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

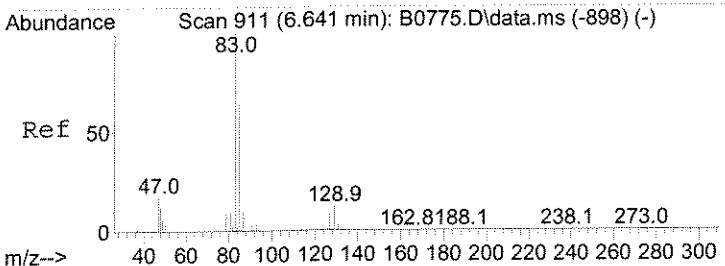
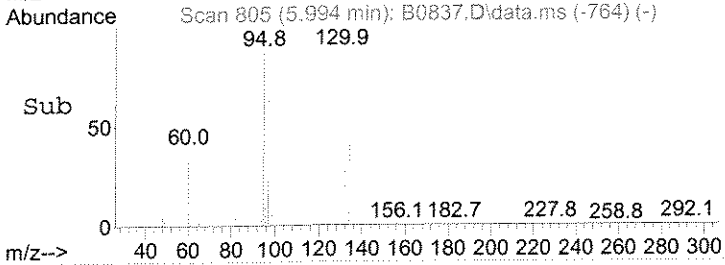
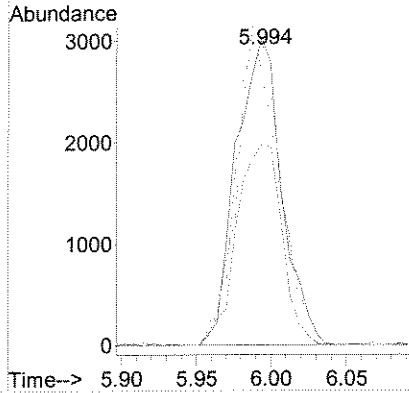
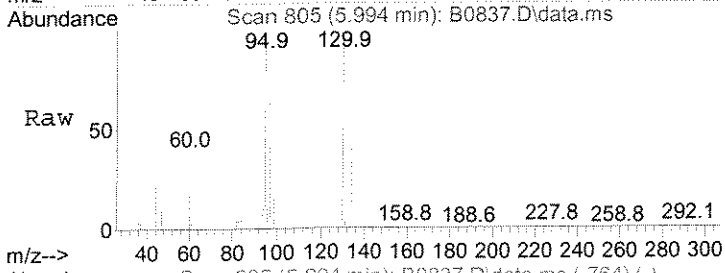
Tgt Ion	Resp	Lower	Upper
121	100		
82	78.2	62.0	93.0





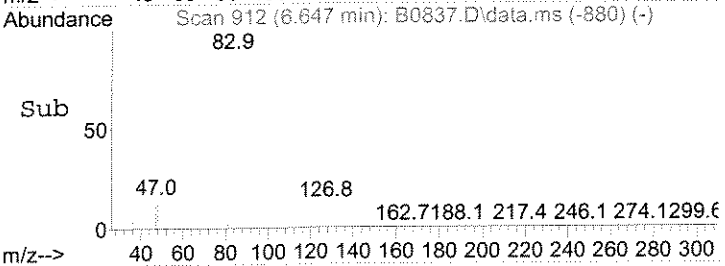
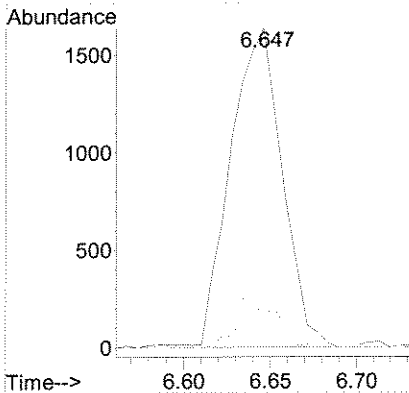
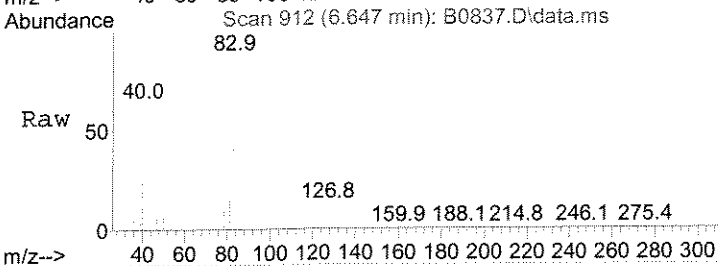
#54
 Trichloroethene
 Concen: 0.53 ug/L
 RT: 5.994 min Scan# 805
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

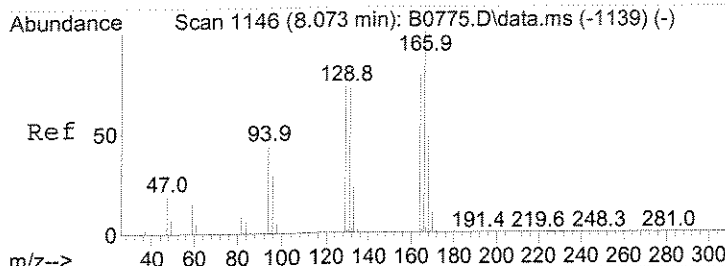
Tgt Ion	Ratio	Lower	Upper
130	100		
132	88.1	77.0	115.4
95	99.3	78.6	118.0
97	65.4	50.9	76.3



#60
 Bromodichloromethane
 Concen: 0.22 ug/L
 RT: 6.647 min Scan# 912
 Delta R.T. 0.006 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

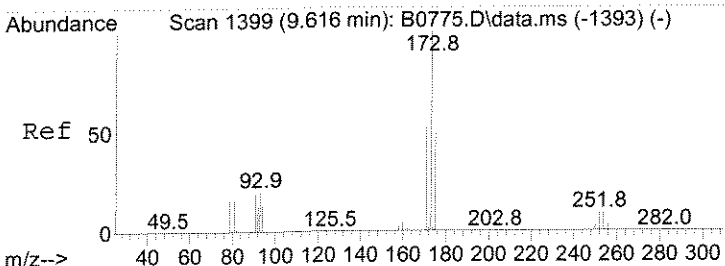
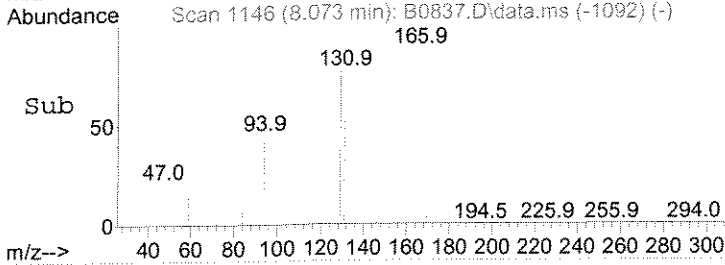
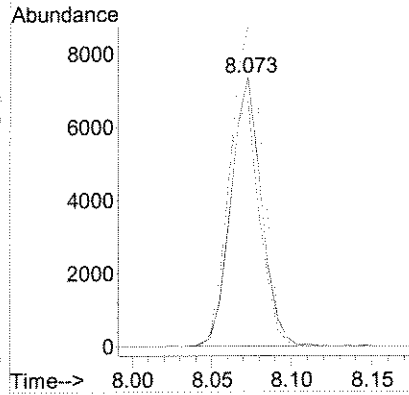
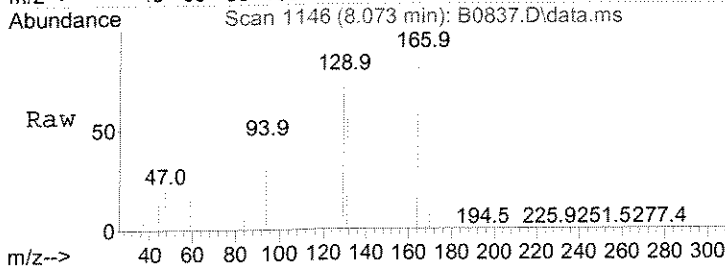
Tgt Ion	Ratio	Lower	Upper
83	100		
129	10.0	9.5	14.3
127	13.2	7.2	10.8#





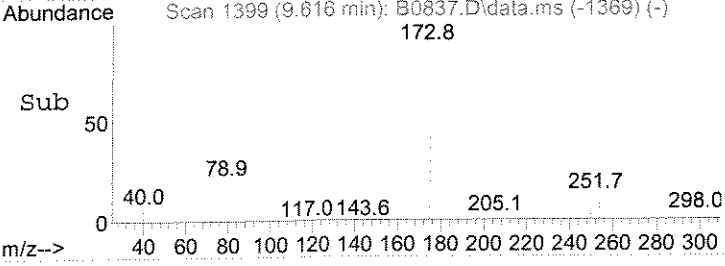
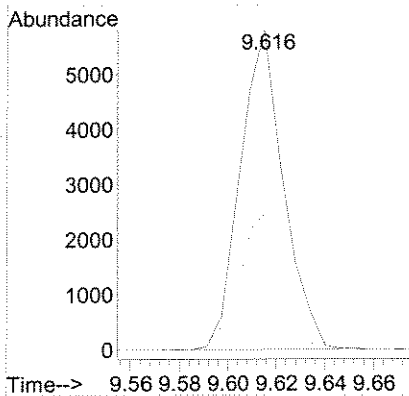
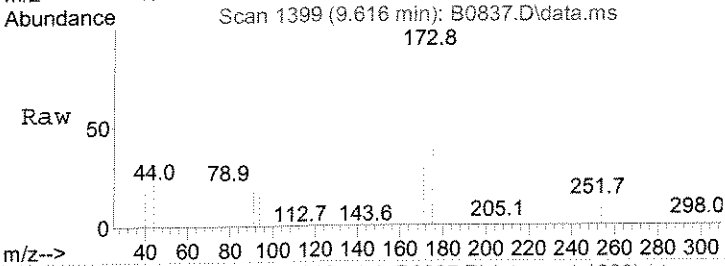
#72
 Tetrachloroethene
 Concen: 0.99 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

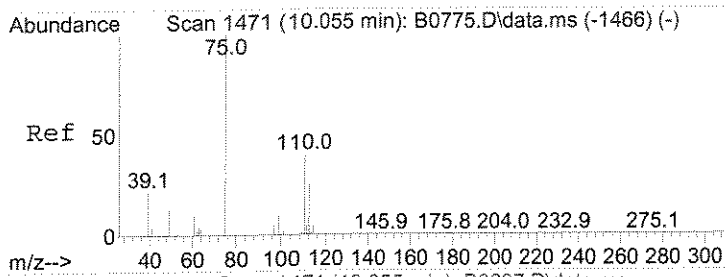
Tgt Ion	Resp	Lower	Upper
164	100		
166	119.2	101.5	152.3
129	91.5	73.8	110.6
131	91.2	72.9	109.3



#83
 Bromoform
 Concen: 1.02 ug/L
 RT: 9.616 min Scan# 1399
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

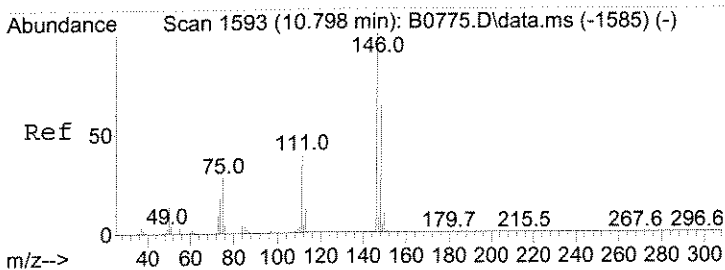
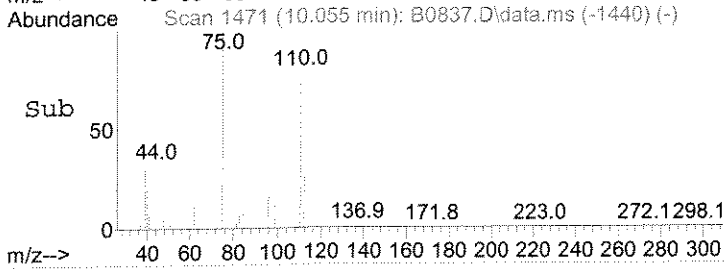
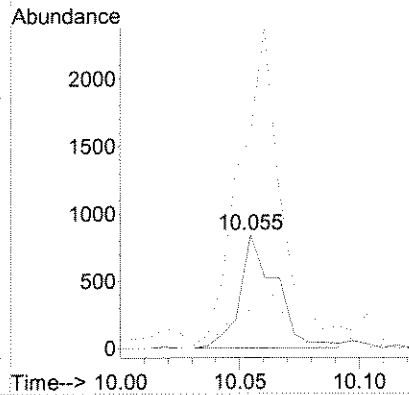
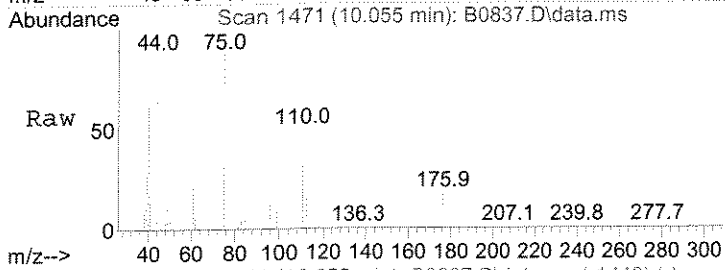
Tgt Ion	Resp	Lower	Upper
173	100		
175	42.6	39.4	59.0





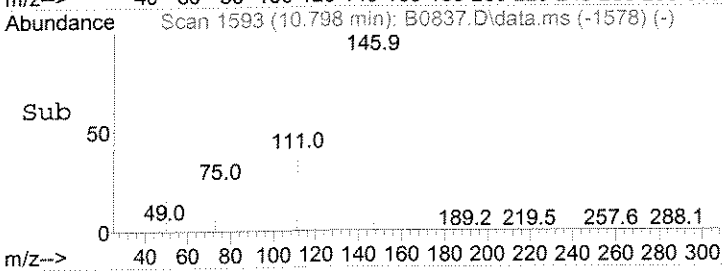
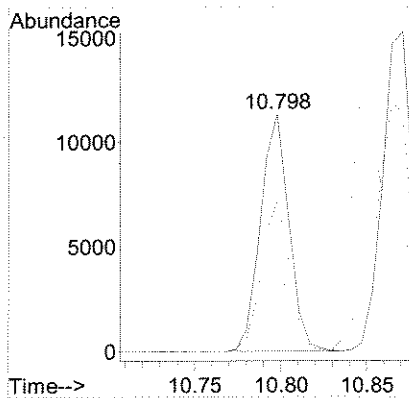
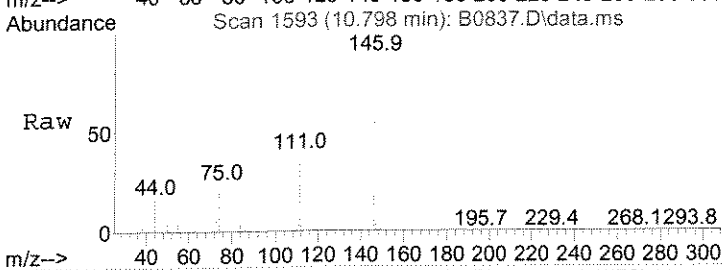
#91
 1,2,3-Trichloropropane
 Concen: 0.30 ug/L
 RT: 10.055 min Scan# 1471
 Delta R.T. -0.006 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

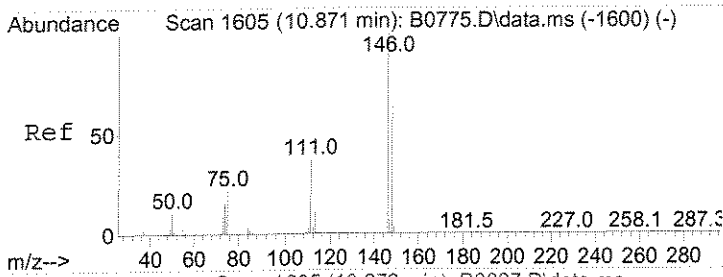
Tgt Ion	Resp	Lower	Upper
110	894		
75	186.0	224.9	337.3#
112	33.6	50.0	75.0#



#100
 1,3-Dclbenz
 Concen: 0.47 ug/L
 RT: 10.798 min Scan# 1593
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

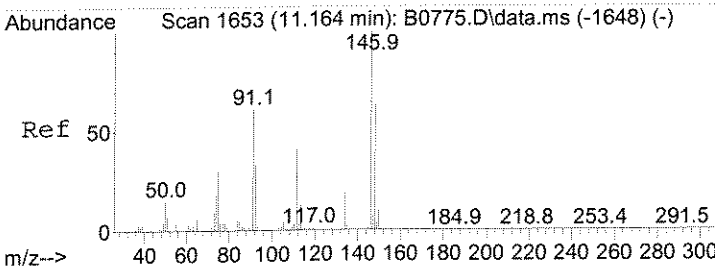
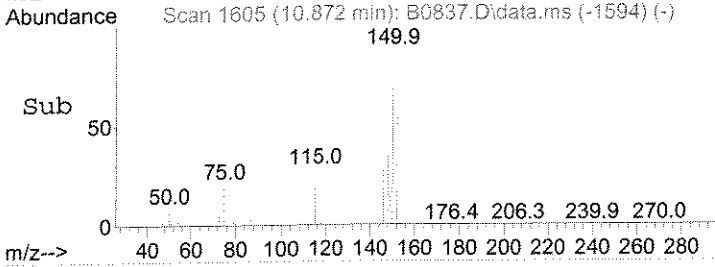
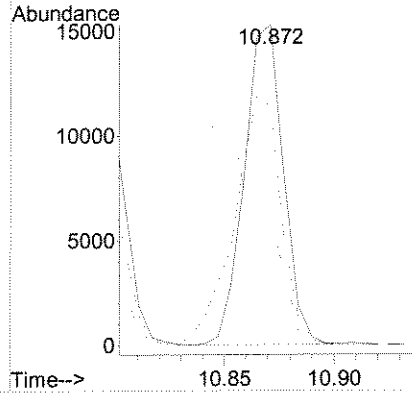
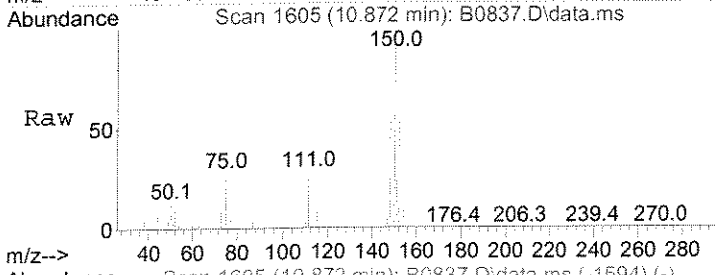
Tgt Ion	Resp	Lower	Upper
146	12903		
148	63.7	51.2	76.8
111	39.5	31.4	47.0





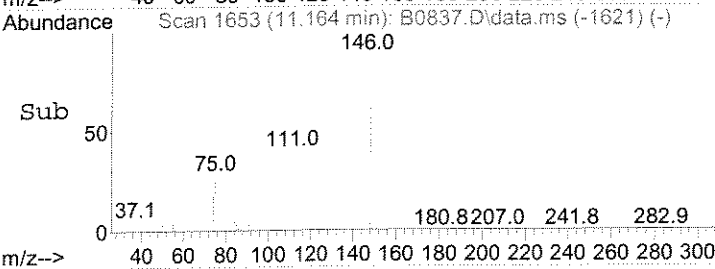
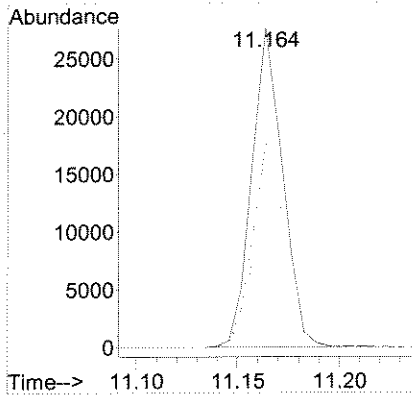
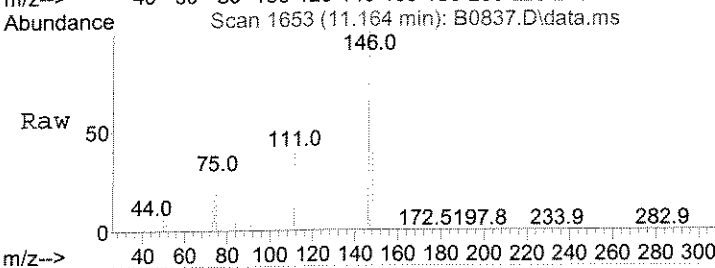
#101
 1,4-DcIbenz
 Concen: 0.67 ug/L
 RT: 10.872 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

Tgt Ion	Ratio	Lower	Upper
146	100		
148	74.5	51.2	76.8
111	38.4	30.0	45.0



#104
 1,2-DcIbenz
 Concen: 1.13 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. -0.000 min
 Lab File: B0837.D
 Acq: 1 Jul 2008 3:53 am

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.3	75.5
111	40.3	33.0	49.4



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : H-49AB

Date Sampled : 06/24/08 09:00 Order #: 1112066 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/01/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	1.1 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	3.5 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	0.28 J	UG/L
CHLOROFORM	1.0	3.0	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	0.43 J	UG/L
1,4-DICHLOROBENZENE	2.0	2.6	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	6.9	UG/L
1,2-DICHLOROETHANE	1.0	0.33 J	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : H-49AB

Date Sampled : 06/24/08 09:00 Order #: 1112066 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.35 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	0.85 J	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	0.62 J	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	0.76 J	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Sample : 1112066 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0838.D Vial: 26
 Acq On : 1 Jul 2008 4:22 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 01 04:37:06 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

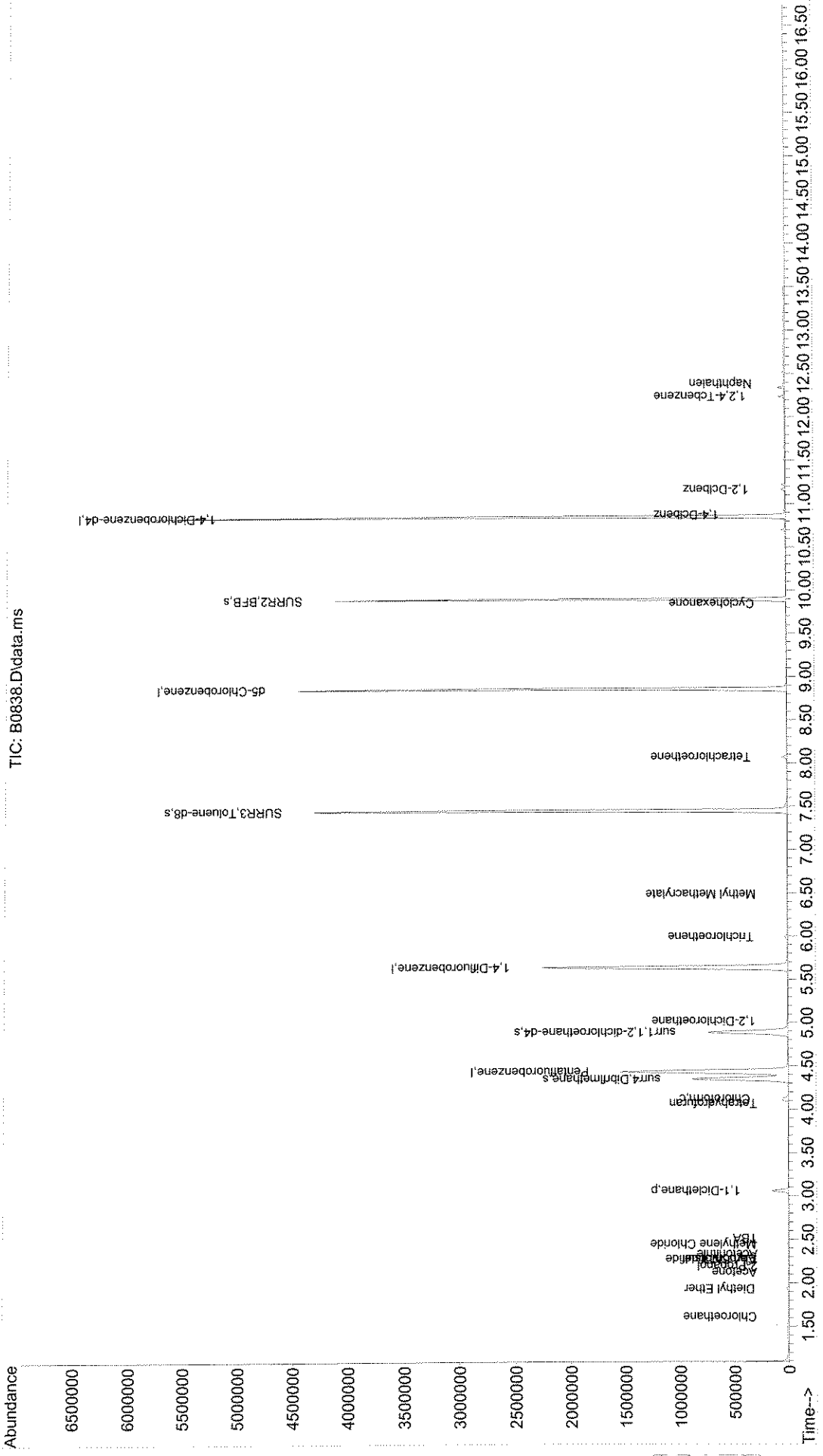
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1403719	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2210017	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2006076	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1092208	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	707973	48.68	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	97.36%		
49) surr1,1,2-dichloroetha...	4.891	65	755216	54.37	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.74%		
65) SURR3,Toluene-d8	7.451	98	2599509	54.04	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.08%		
70) SURR2,BFB	9.896	95	1051873	53.09	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.18%		
Target Compounds							
7) Chloroethane	1.611	64	1686	0.28	ug/L	81	J
10) Diethyl Ether	1.934	59	7283	1.15	ug/L	92	NT
16) Acetone	2.123	43	1937	1.12	ug/L	98	JB
17) 2-Propanol	2.196	45	218	0.59	ug/L #	1	
19) Carbon Disulfide	2.276	76	7649	0.21	ug/L #	92	NT
20) Acetonitrile	2.330	40	630	2.60	ug/L #	1	
21) Allyl Chloride	2.276	76	7249	1.37	ug/L #	1	
23) Methylene Chloride	2.446	84	4147	0.35	ug/L	94	J
24) TBA	2.513	59	2058	3.52	ug/L #	65	
28) 1,1-Dicethane	3.062	63	138094	6.91	ug/L	98	FJ 7/3/08
40) Tetrahydrofuran	4.068	42	525	0.31	ug/L #	36	
41) Chloroform	4.123	83	60063	2.95	ug/L	98	
51) 1,2-Dichloroethane	5.019	62	5049	0.33	ug/L #	90	J
54) Trichloroethene	5.994	130	9350	0.76	ug/L #	91	J
59) Methyl Methacrylate	6.488	69	315	1.51	ug/L #	88	
72) Tetrachloroethene	8.073	164	8497	0.85	ug/L	93	J
85) Cyclohexanone	9.847	55	1259	1.38	ug/L #	28	
101) 1,4-Dclbenz	10.871	146	74843	2.63	ug/L	95	
104) 1,2-Dclbenz	11.164	146	11139	0.43	ug/L	94	
107) 1,2,4-Tcbenzene	12.237	180	10881	0.62	ug/L #	83	J
109) Naphthalen	12.383	128	1884	0.58	ug/L #	77	SB CLR Friedrich

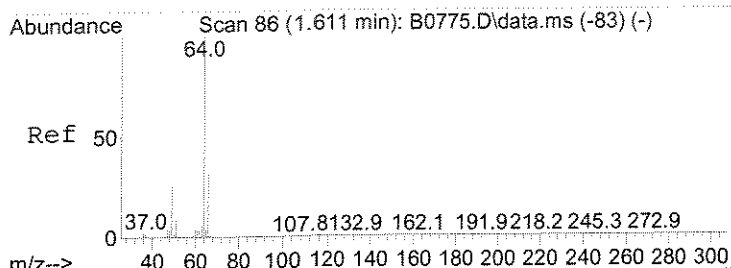
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FJ
7/3/08

Sample : 1112066 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0838.D Vial: 26
 Acq On : 1 Jul 2008 4:22 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

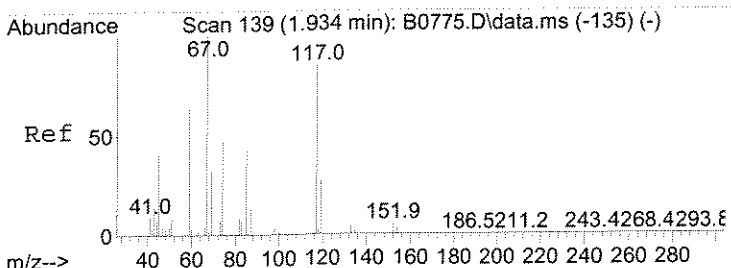
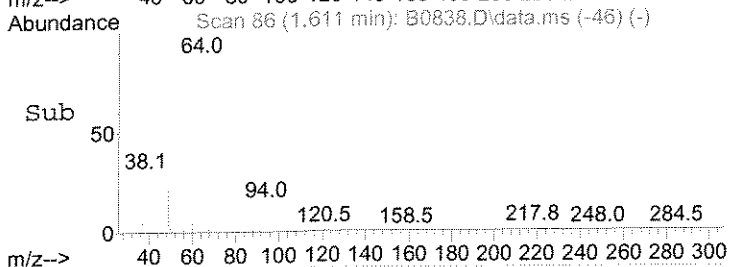
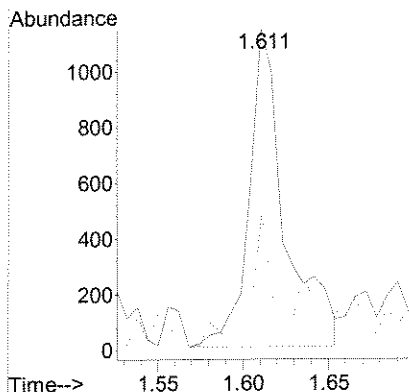
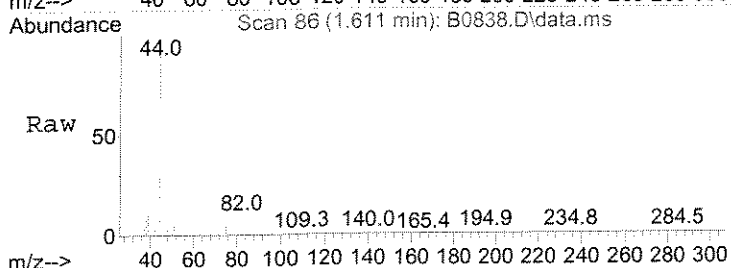
Quant Time: Jul 01 04:37:06 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





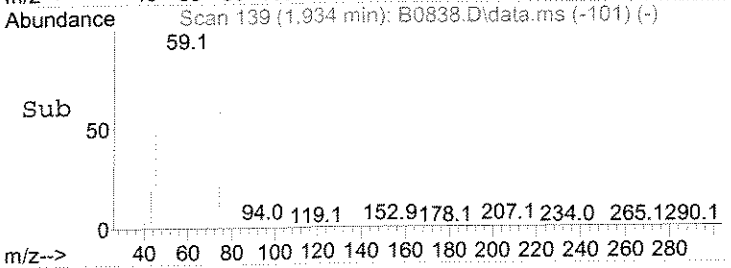
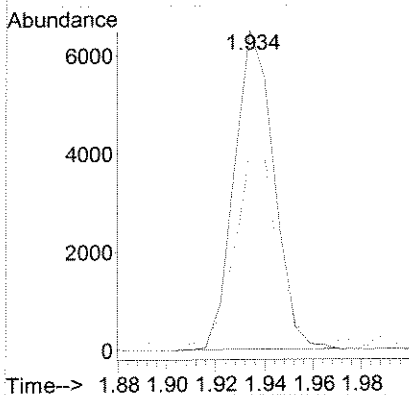
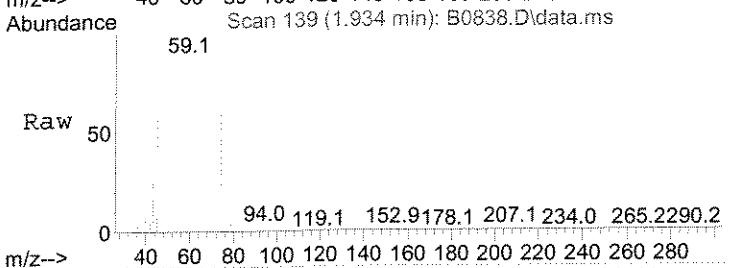
#7
 Chloroethane
 Concen: 0.28 ug/L
 RT: 1.611 min Scan# 86
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

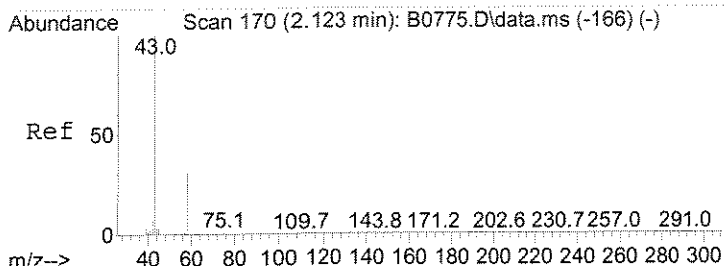
Tgt Ion	Resp	Lower	Upper
64	100		
66	42.8	2.3	62.3



#10
 Diethyl Ether
 Concen: 1.15 ug/L
 RT: 1.934 min Scan# 139
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

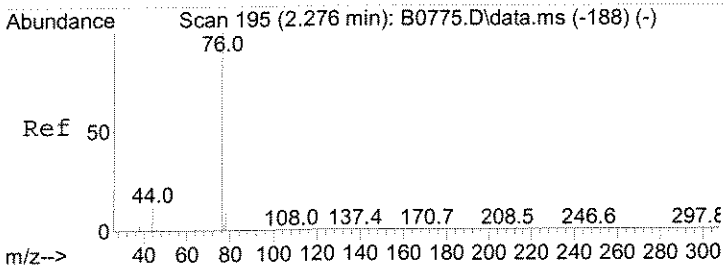
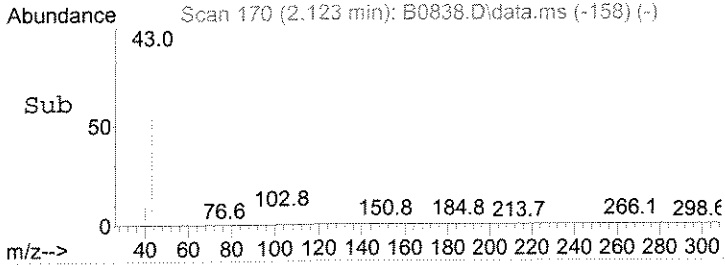
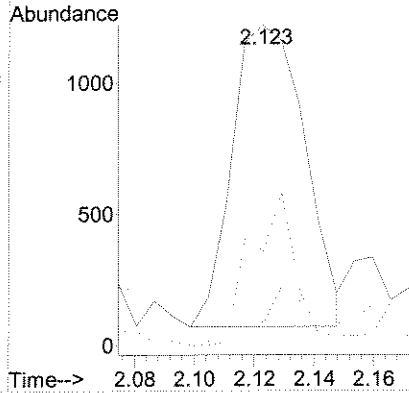
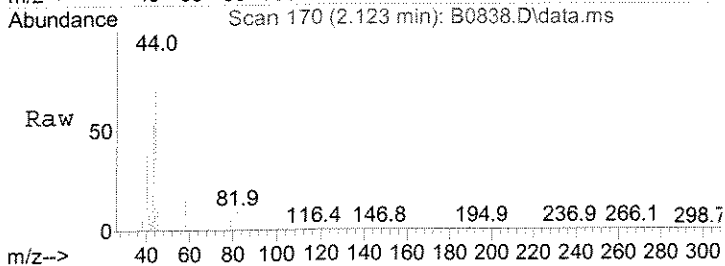
Tgt Ion	Resp	Lower	Upper
59	100		
45	60.2	31.6	94.7
74	64.2	36.7	110.1





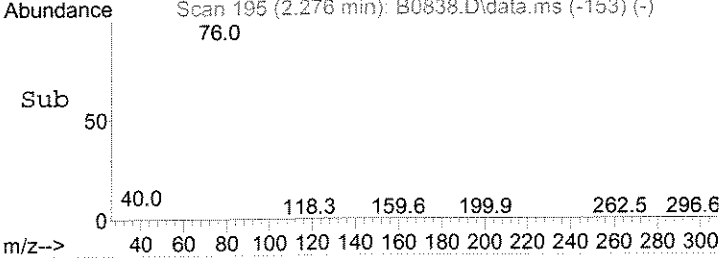
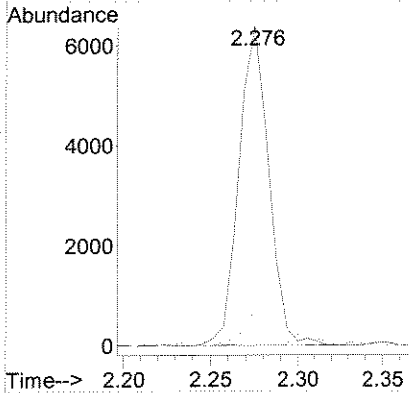
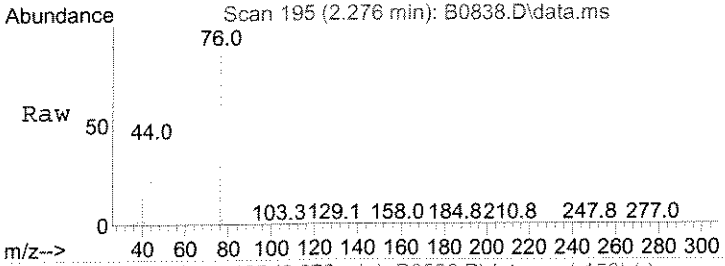
#16
 Acetone
 Concen: 1.12 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

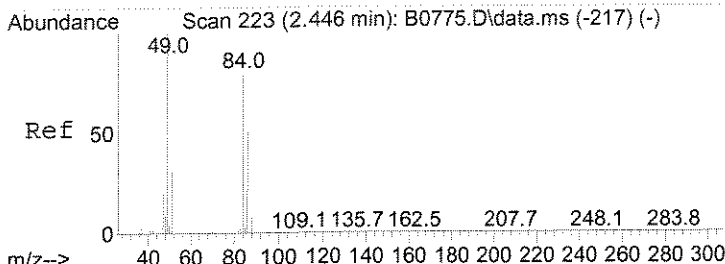
Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.3	0.9	60.9
42	7.1	0.0	37.2



#19
 Carbon Disulfide
 Concen: 0.21 ug/L
 RT: 2.276 min Scan# 195
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

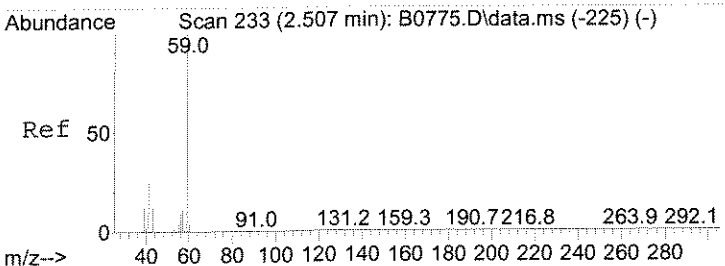
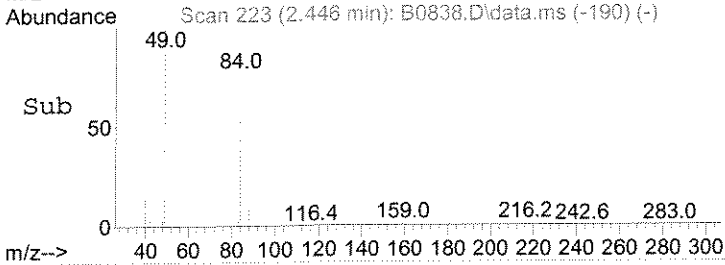
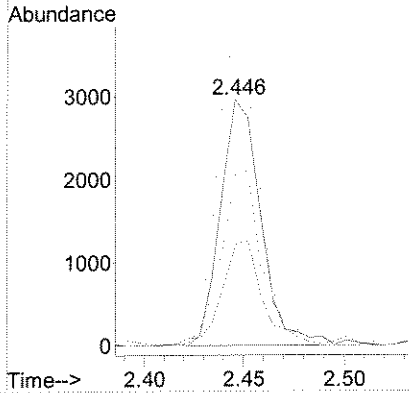
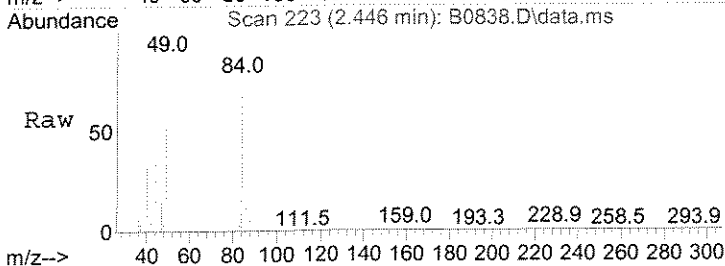
Tgt Ion	Ratio	Lower	Upper
76	100		
78	12.0	6.9	10.3#
77	3.6	2.0	3.0#





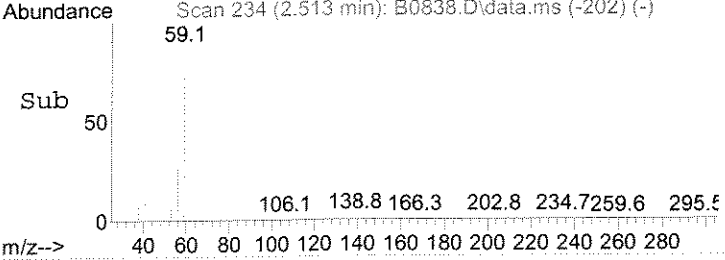
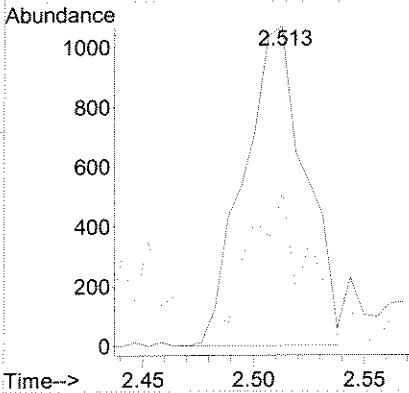
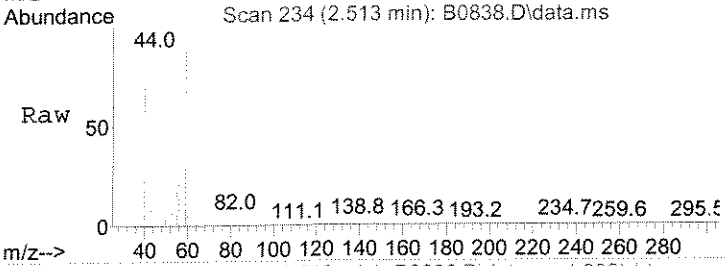
#23
 Methylene Chloride
 Concen: 0.35 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

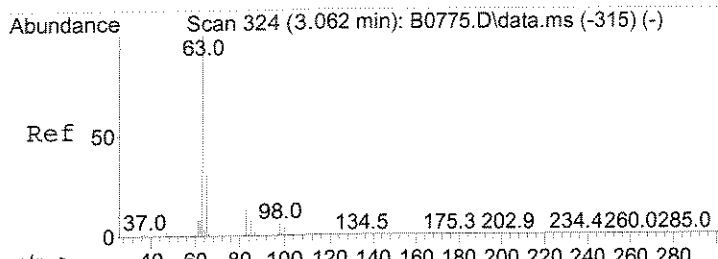
Tgt Ion	Ratio	Lower	Upper
84	100		
86	70.0	50.5	75.7
49	130.0	99.5	149.3
51	41.3	31.1	46.7



#24
 TBA
 Concen: 3.52 ug/L
 RT: 2.513 min Scan# 234
 Delta R.T. 0.006 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

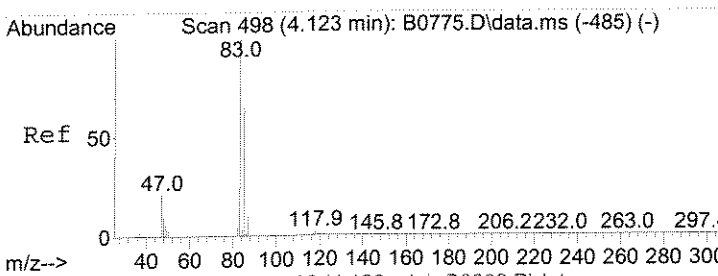
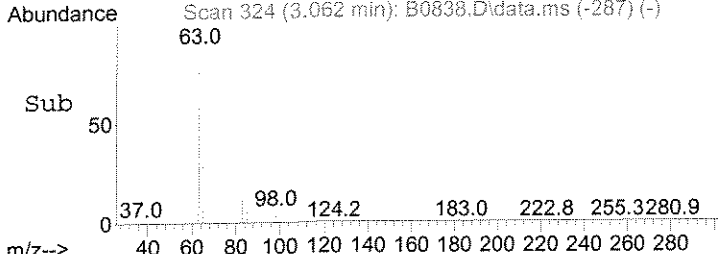
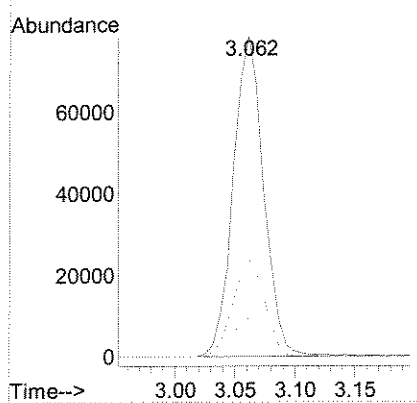
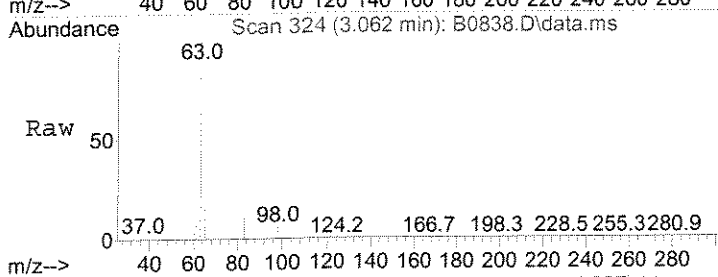
Tgt Ion	Ratio	Lower	Upper
59	100		
41	47.8	14.5	43.6#





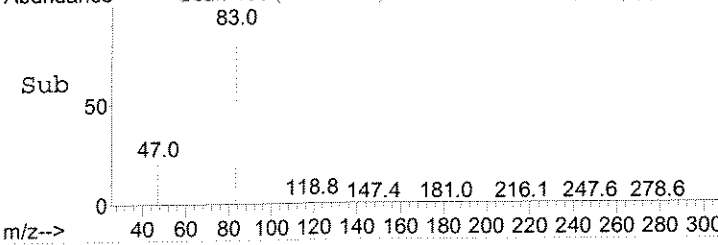
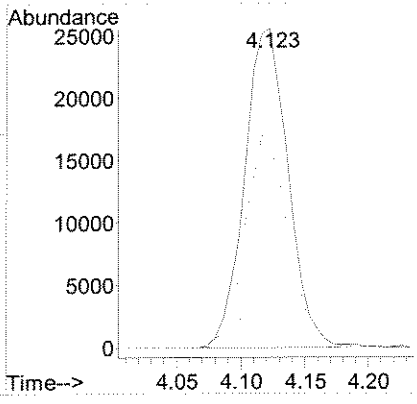
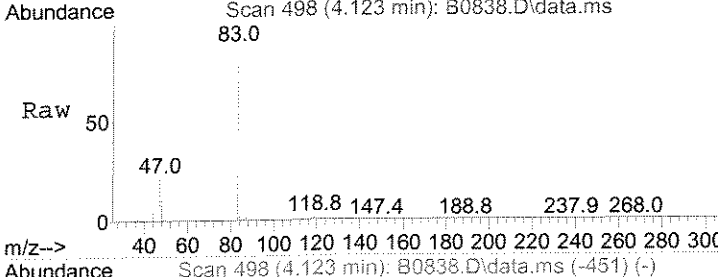
#28
 1,1-Diclcethane
 Concen: 6.91 ug/L
 RT: 3.062 min Scan# 324
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

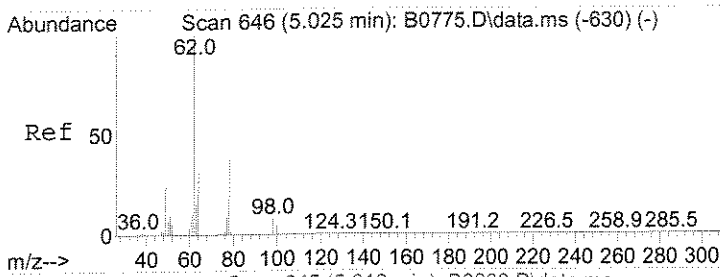
Tgt Ion	Resp	Lower	Upper
63	138094		
63	100		
65	30.0	24.9	37.3
83	12.1	10.5	15.7



#41
 Chloroform
 Concen: 2.95 ug/L
 RT: 4.123 min Scan# 498
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

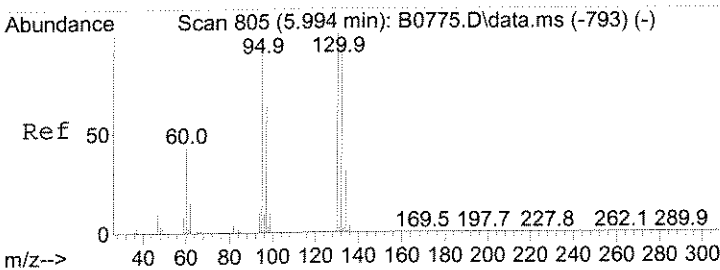
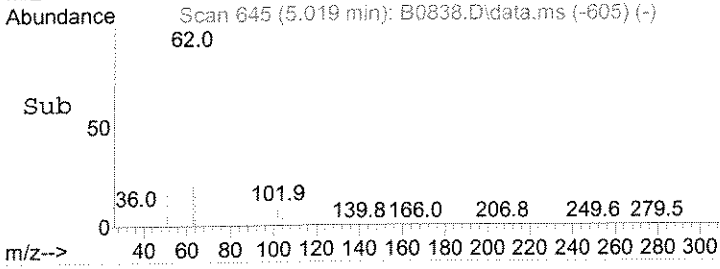
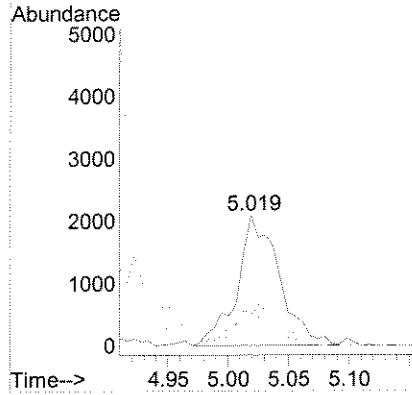
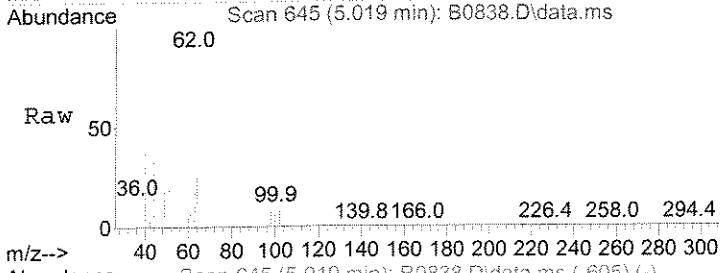
Tgt Ion	Resp	Lower	Upper
83	60063		
83	100		
85	62.9	51.7	77.5
47	21.7	17.1	25.7





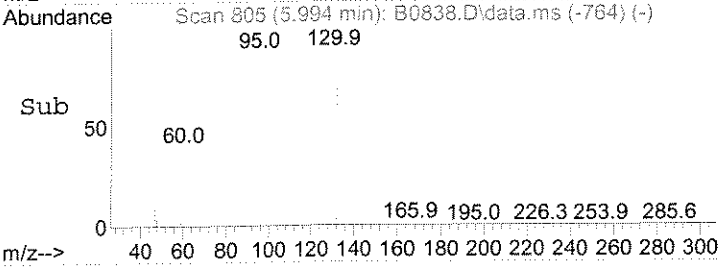
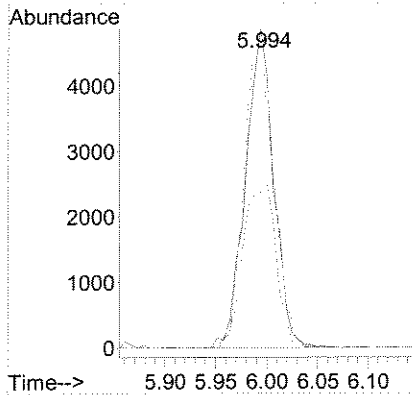
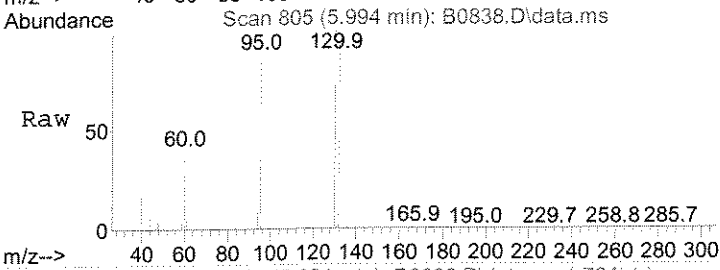
#51
 1,2-Dichloroethane
 Concen: 0.33 ug/L
 RT: 5.019 min Scan# 645
 Delta R.T. -0.006 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

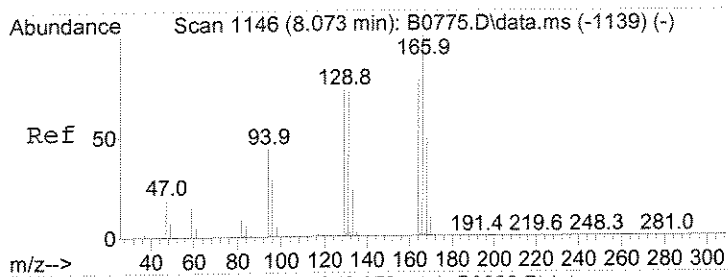
Tgt Ion	Resp	Lower	Upper
62	100		
64	25.2	26.5	39.7#
49	22.6	20.2	30.4



#54
 Trichloroethene
 Concen: 0.76 ug/L
 RT: 5.994 min Scan# 805
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

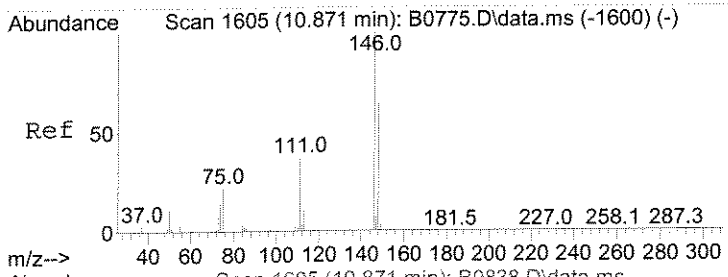
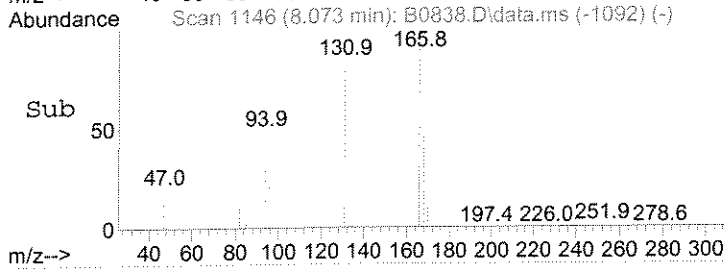
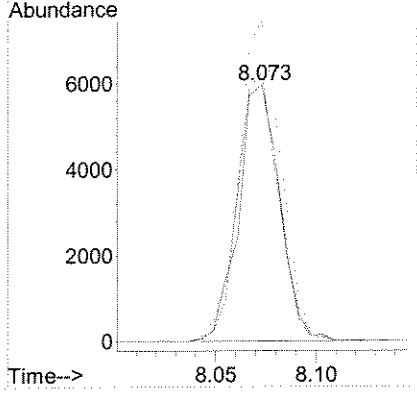
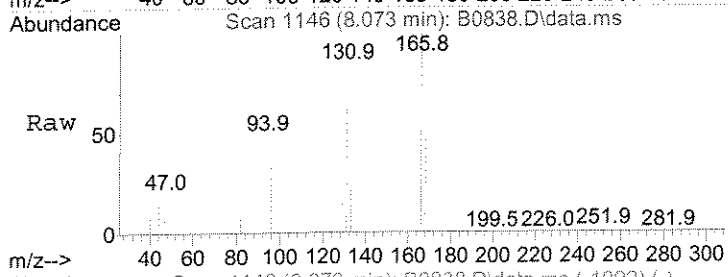
Tgt Ion	Resp	Lower	Upper
130	100		
132	94.8	77.0	115.4
95	88.4	78.6	118.0
97	48.6	50.9	76.3#





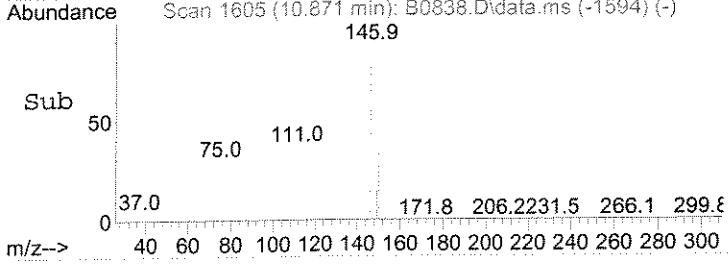
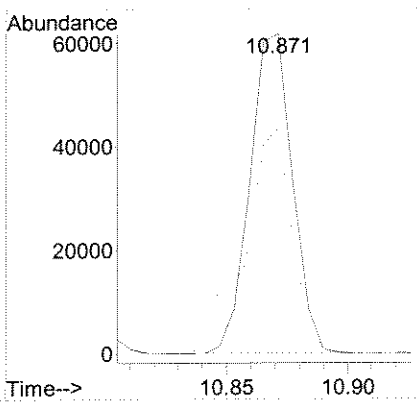
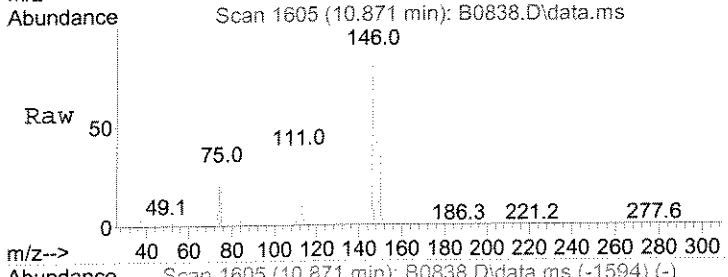
#72
 Tetrachloroethene
 Concen: 0.85 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

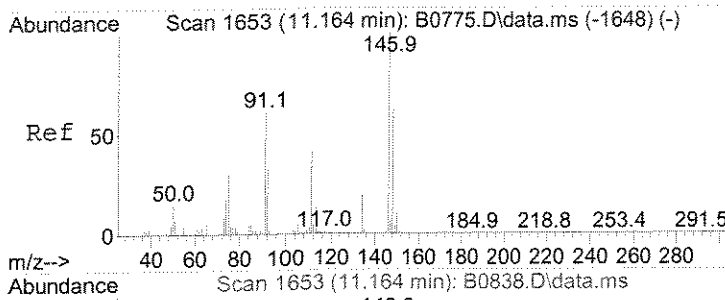
Tgt Ion	164	Resp	8497
Ion Ratio	Lower	Upper	
164	100		
166	125.1	101.5	152.3
129	97.9	73.8	110.6
131	105.0	72.9	109.3



#101
 1,4-DcIbenz
 Concen: 2.63 ug/L
 RT: 10.871 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

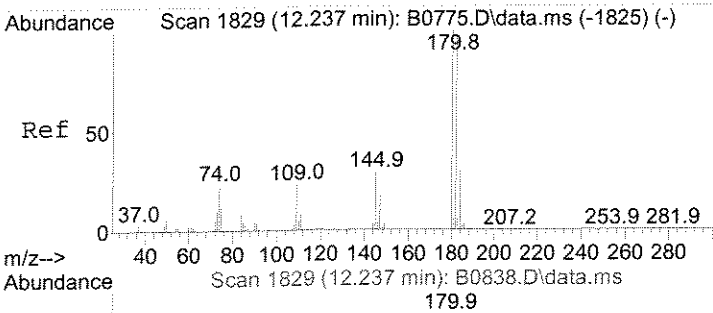
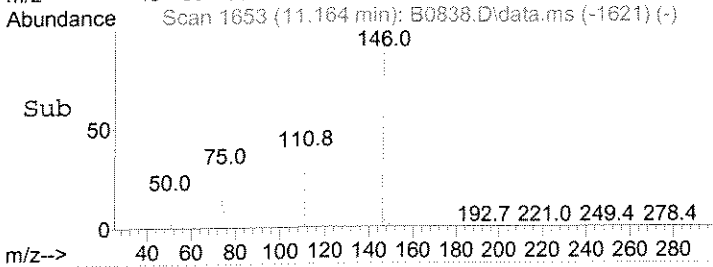
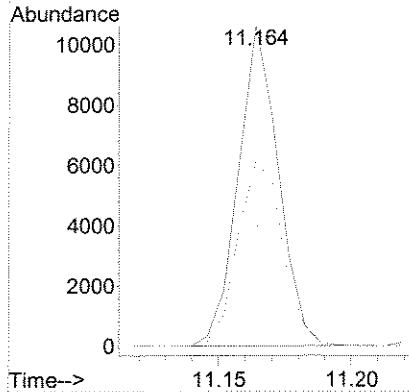
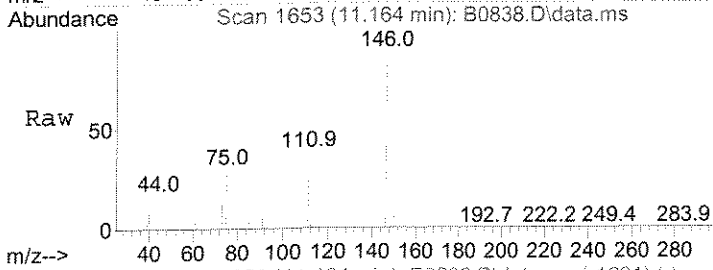
Tgt Ion	146	Resp	74843
Ion Ratio	Lower	Upper	
146	100		
148	70.6	51.2	76.8
111	37.5	30.0	45.0





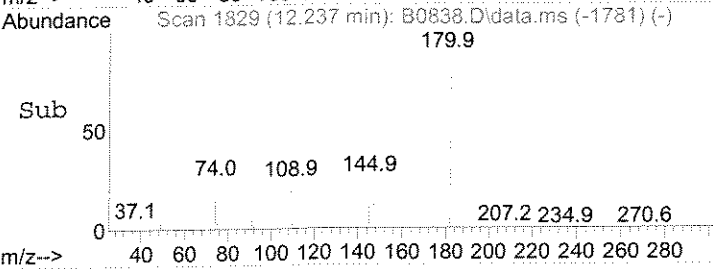
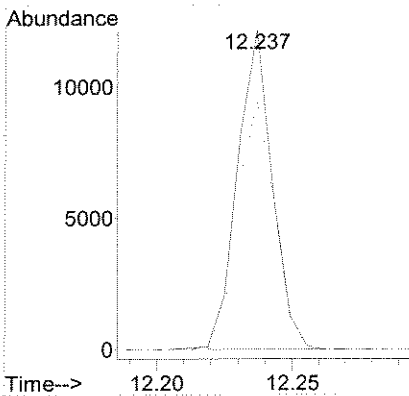
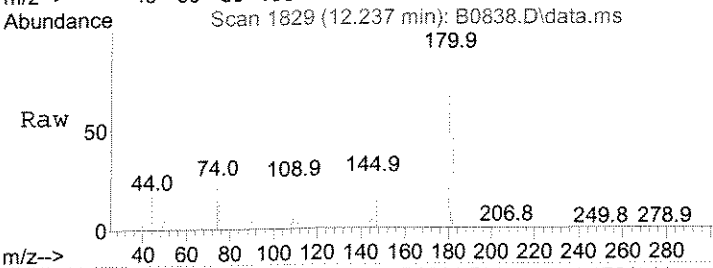
#104
 1,2-Dclbenz
 Concen: 0.43 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

Tgt Ion	Ratio	Lower	Upper
146	100		
148	57.5	50.3	75.5
111	38.2	33.0	49.4



#107
 1,2,4-Tcbenzene
 Concen: 0.62 ug/L
 RT: 12.237 min Scan# 1829
 Delta R.T. -0.000 min
 Lab File: B0838.D
 Acq: 1 Jul 2008 4:22 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	77.6	77.8	116.6#
145	25.6	23.2	34.8



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : FB062408GWAREA1

Date Sampled : 06/24/08 12:00 Order #: 1112067 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	16 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	2.5 J	UG/L
TERT-BUTYL ALCOHOL	100	4.1 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	0.29 J	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.2	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	0.35 J	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : FB062408GWAREAL

Date Sampled : 06/24/08 12:00 Order #: 1112067 Sample Matrix: WATER
Date Received: 06/25/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.25 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.8	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	0.26 J	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	104	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Sample : 1112067 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0839.D Vial: 27
 Acq On : 1 Jul 2008 4:52 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

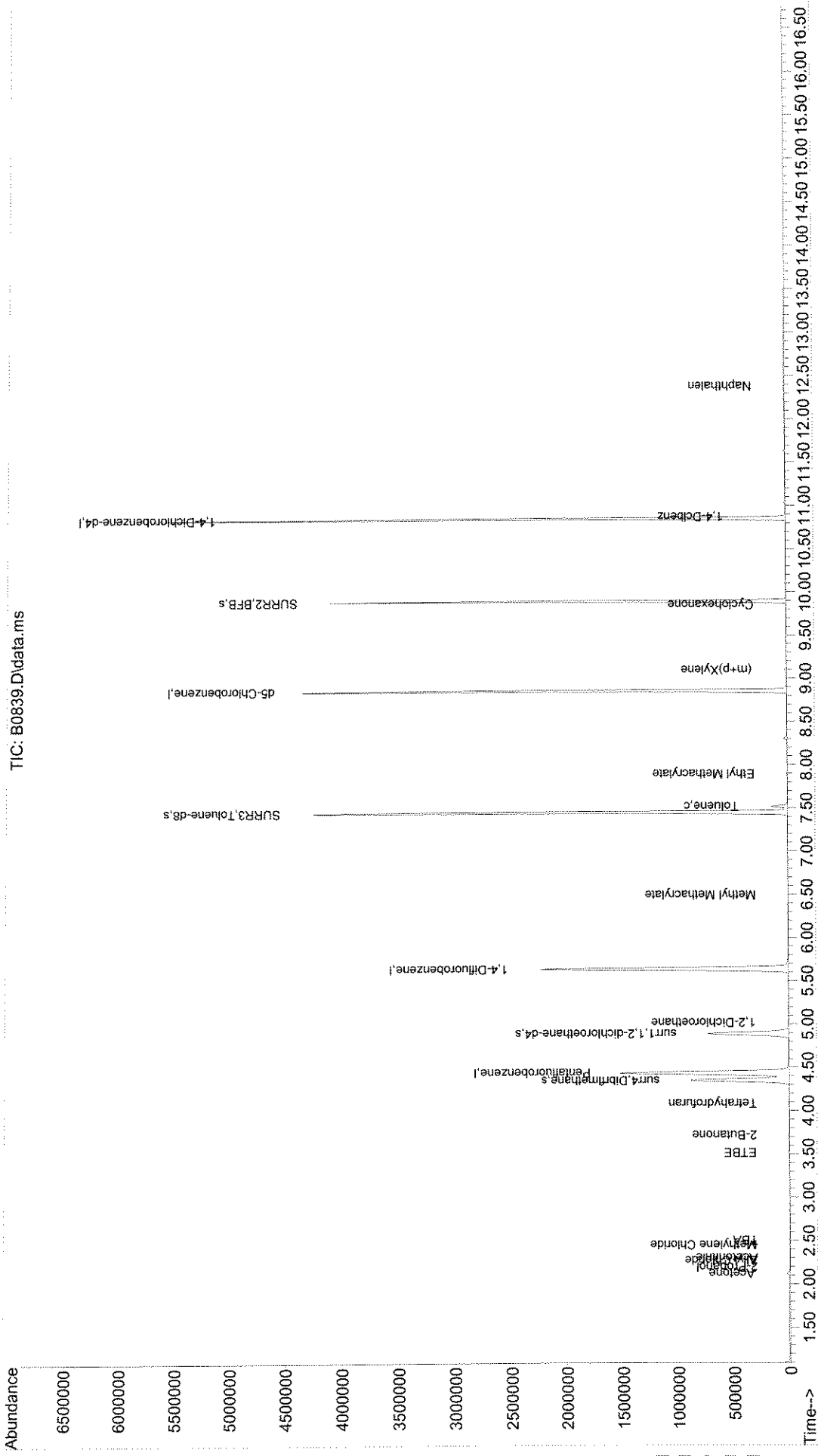
Quant Time: Jul 01 05:07:02 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

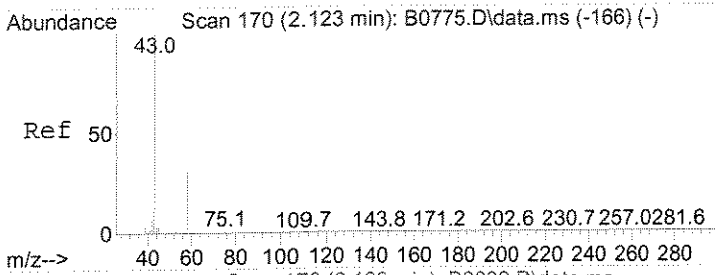
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.440	168	1384290	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2195531	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2000623	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1071834	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4, Dibrflmethane	4.348	113	692016	47.63	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	95.26%		
49) surr1, 1,2-dichloroetha...	4.891	65	728408	52.78	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.56%		
65) SURR3, Toluene-d8	7.451	98	2584998	54.09	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.18%		
70) SURR2, BFB	9.896	95	1025035	52.08	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	104.16%		
Target Compounds							
16) Acetone	2.123	43	27032	15.83	ug/L		96 J
17) 2-Propanol	2.196	45	1075	2.96	ug/L #	1	
20) Acetonitrile	2.306	40	776	3.25	ug/L #	1	
21) Allyl Chloride	2.276	76	3509	0.67	ug/L #	1	
23) Methylene Chloride	2.452	84	2913	0.25	ug/L #	82	
24) TBA	2.507	59	2376	4.12	ug/L #	62	J
32) ETBE	3.519	59	7716	0.29	ug/L #	94	
35) 2-Butanone	3.720	43	7260	2.53	ug/L	93	
40) Tetrahydrofuran	4.086	42	1994	1.21	ug/L #	76	NT
51) 1,2-Dichloroethane	5.019	62	5403	0.35	ug/L #	89	J
59) Methyl Methacrylate	6.494	69	448	1.54	ug/L #	50	
66) Toluene	7.518	91	87773	1.82	ug/L	99	
68) Ethyl Methacrylate	7.896	69	2743	1.81	ug/L	84	NT
80) (m+p)Xylene	9.097	106	5284	0.26	ug/L #	91	J
85) Cyclohexanone	9.853	55	1321	1.45	ug/L #	41	
101) 1,4-Dicbenz	10.871	146	59988	2.15	ug/L	98	
109) Naphthalen	12.377	128	1934	0.58	ug/L #	92	SB CLR FU 7/3/08

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : 1112067 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0839.D Vial: 27
 Acq On : 1 Jul 2008 4:52 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

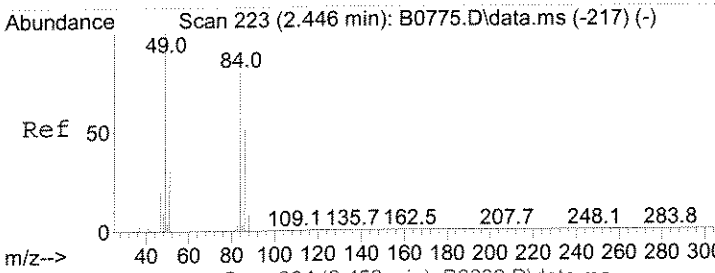
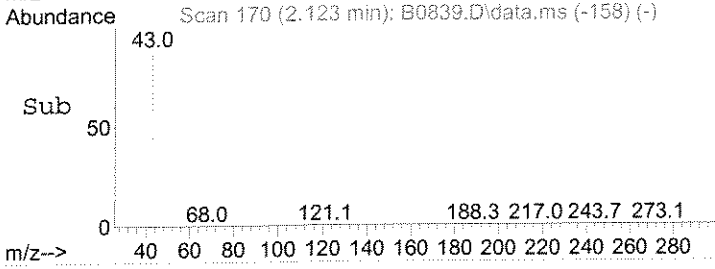
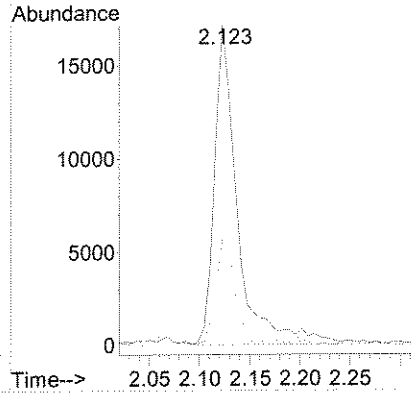
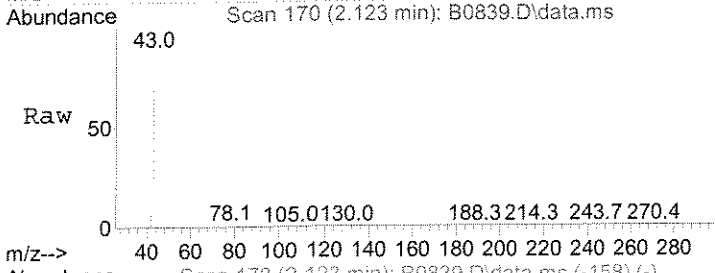
Quant Time: Jul 01 05:07:02 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





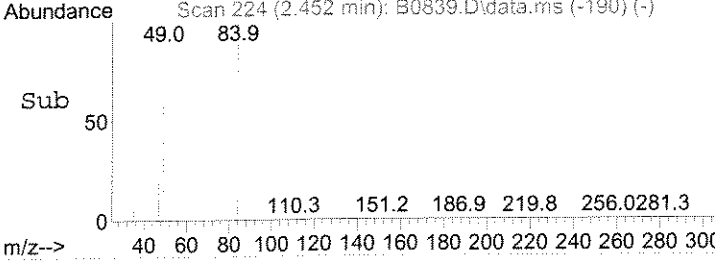
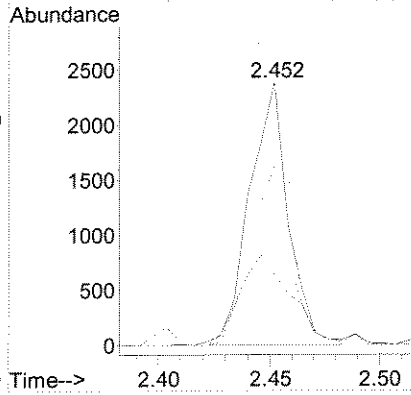
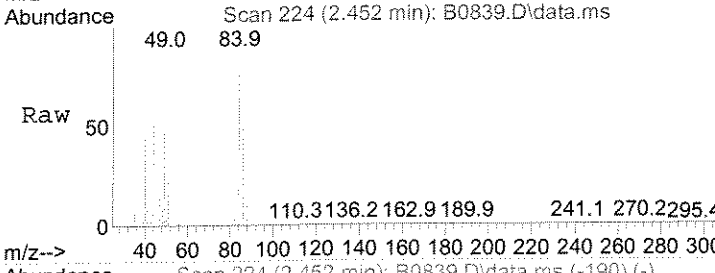
#16
 Acetone
 Concen: 15.83 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0839.D
 Acq: 1 Jul 2008 4:52 am

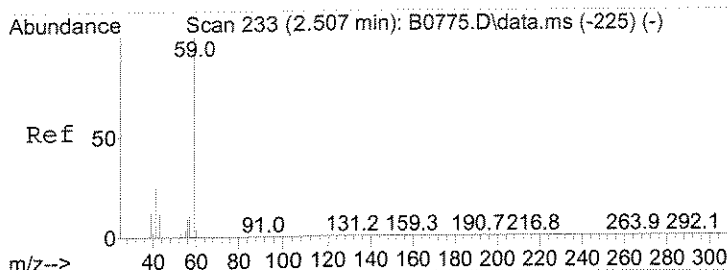
Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.5	0.9	60.9
42	7.5	0.0	37.2



#23
 Methylene Chloride
 Concen: 0.25 ug/L
 RT: 2.452 min Scan# 224
 Delta R.T. 0.006 min
 Lab File: B0839.D
 Acq: 1 Jul 2008 4:52 am

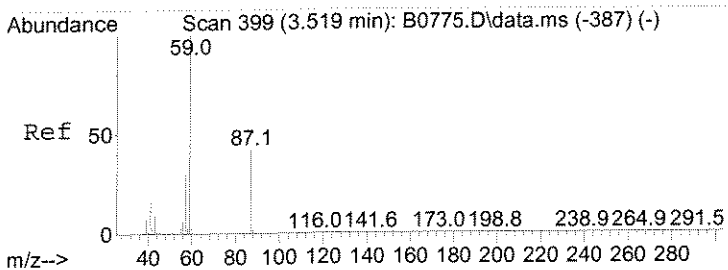
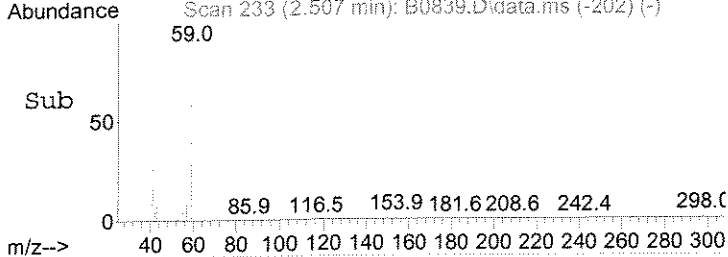
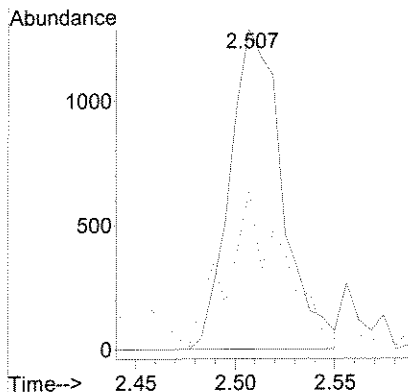
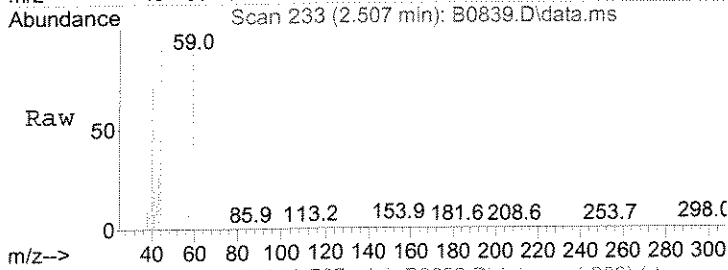
Tgt Ion	Ratio	Lower	Upper
84	100		
86	68.3	50.5	75.7
49	99.1	99.5	149.3#
51	26.5	31.1	46.7#





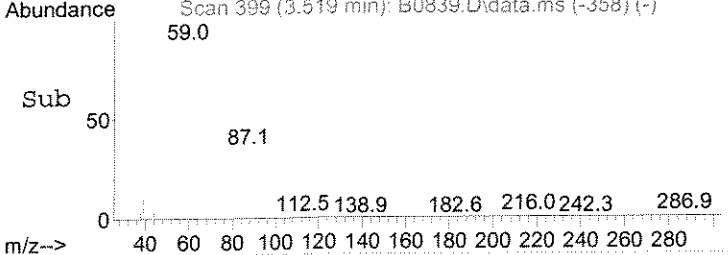
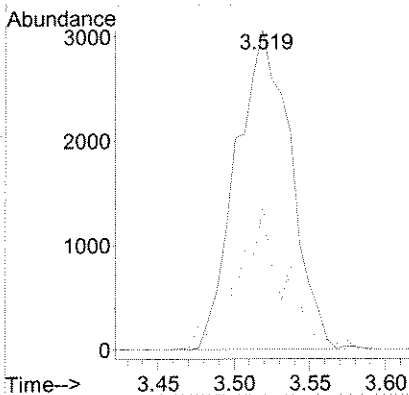
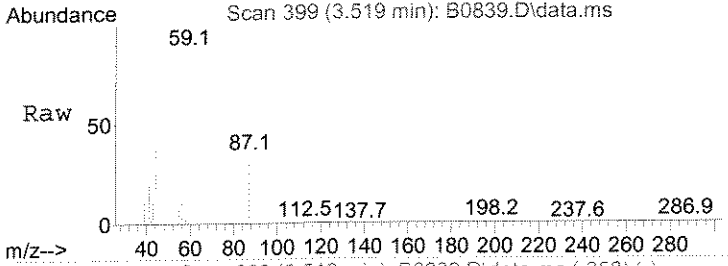
#24
TBA
Concen: 4.12 ug/L
RT: 2.507 min Scan# 233
Delta R.T. -0.000 min
Lab File: B0839.D
Acq: 1 Jul 2008 4:52 am

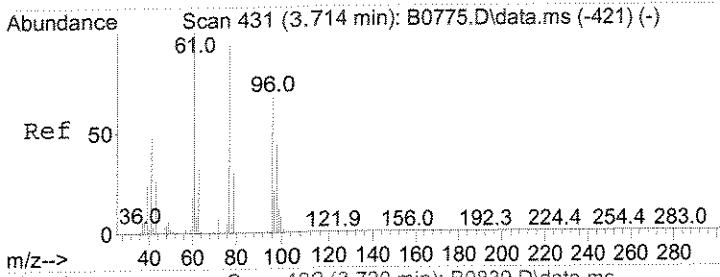
Tgt Ion	Resp	Lower	Upper
59	100		
41	49.5	14.5	43.6#



#32
ETBE
Concen: 0.29 ug/L
RT: 3.519 min Scan# 399
Delta R.T. -0.000 min
Lab File: B0839.D
Acq: 1 Jul 2008 4:52 am

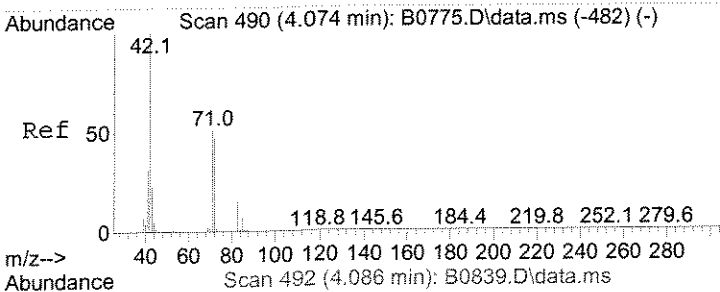
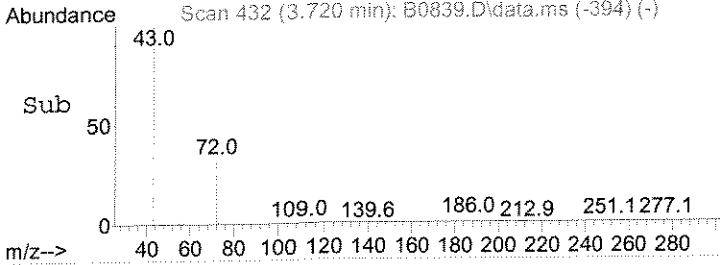
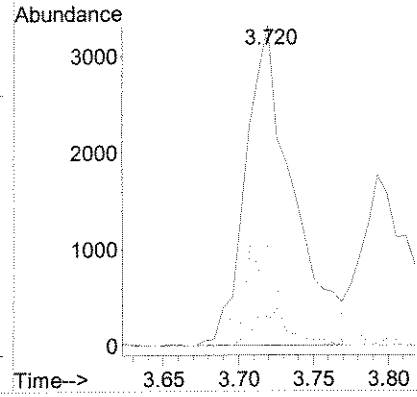
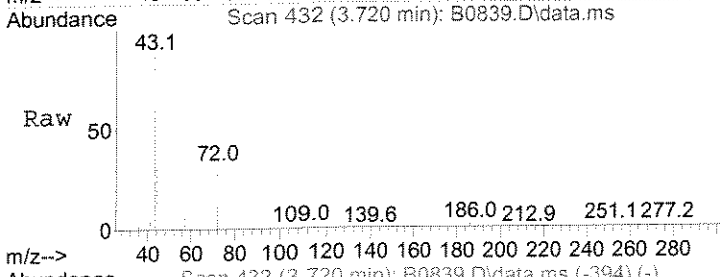
Tgt Ion	Resp	Lower	Upper
59	100		
57	23.3	24.5	36.7#
87	39.8	32.2	48.4





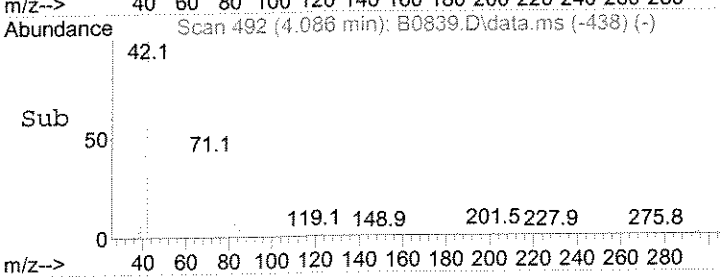
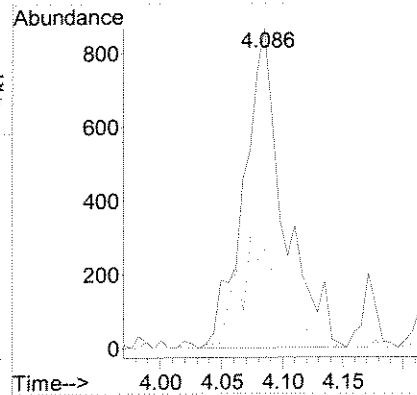
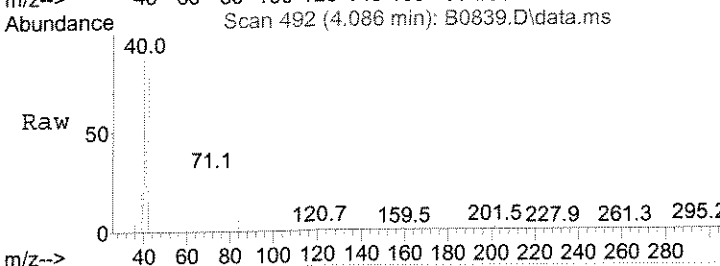
#35
 2-Butanone
 Concen: 2.53 ug/L
 RT: 3.720 min Scan# 432
 Delta R.T. 0.006 min
 Lab File: B0839.D
 Acq: 1 Jul 2008 4:52 am

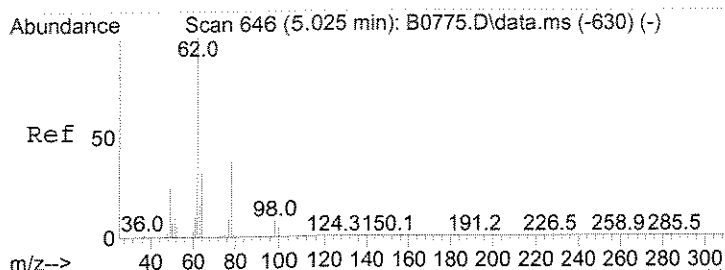
Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.5	7.4	11.0
72	32.1	22.1	33.1



#40
 Tetrahydrofuran
 Concen: 1.21 ug/L
 RT: 4.086 min Scan# 492
 Delta R.T. 0.012 min
 Lab File: B0839.D
 Acq: 1 Jul 2008 4:52 am

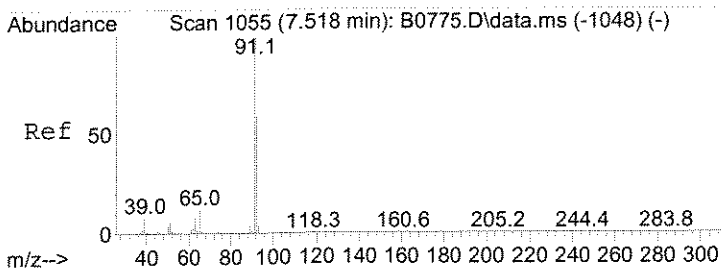
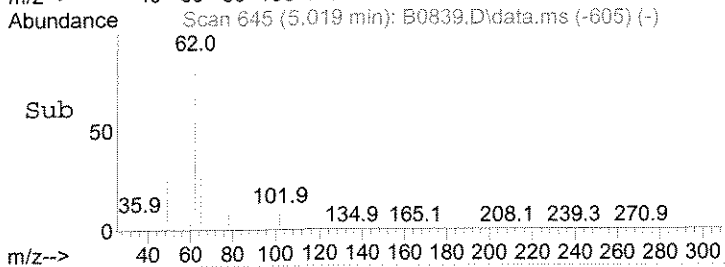
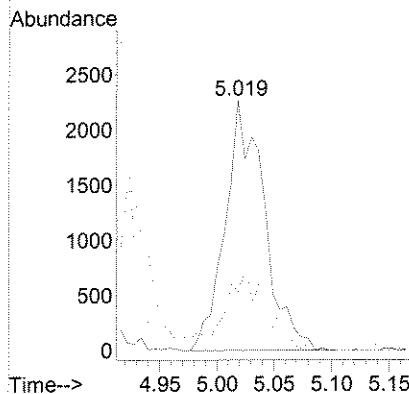
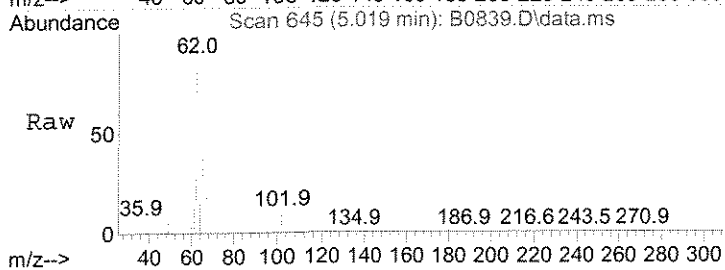
Tgt Ion	Ratio	Lower	Upper
42	100		
72	31.0	37.4	56.2#





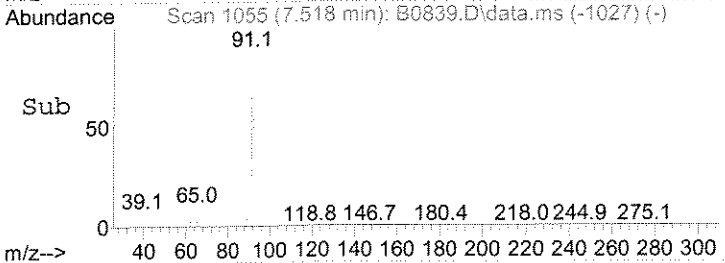
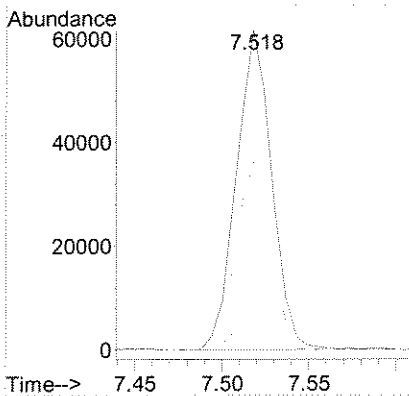
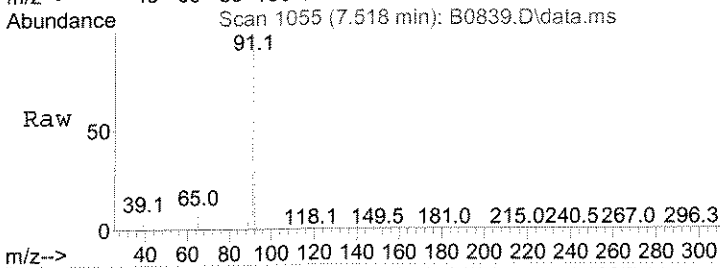
#51
 1,2-Dichloroethane
 Concen: 0.35 ug/L
 RT: 5.019 min Scan# 645
 Delta R.T. -0.006 min
 Lab File: B0839.D
 Acq: 1 Jul 2008 4:52 am

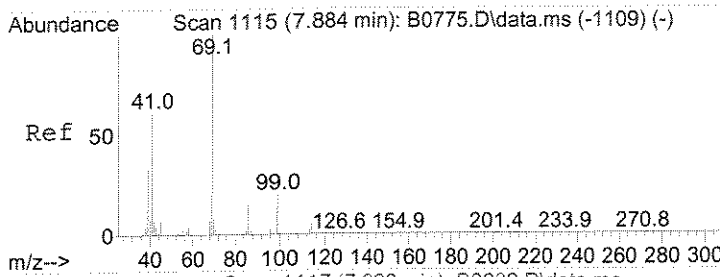
Tgt Ion	Resp	Lower	Upper
62	100		
64	23.1	26.5	39.7#
49	26.5	20.2	30.4



#66
 Toluene
 Concen: 1.82 ug/L
 RT: 7.518 min Scan# 1055
 Delta R.T. -0.000 min
 Lab File: B0839.D
 Acq: 1 Jul 2008 4:52 am

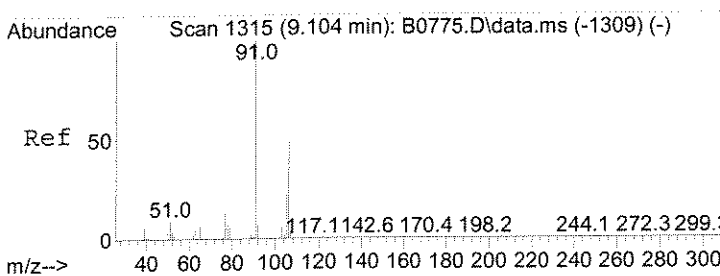
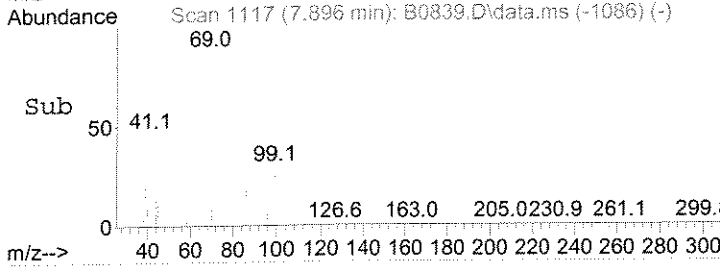
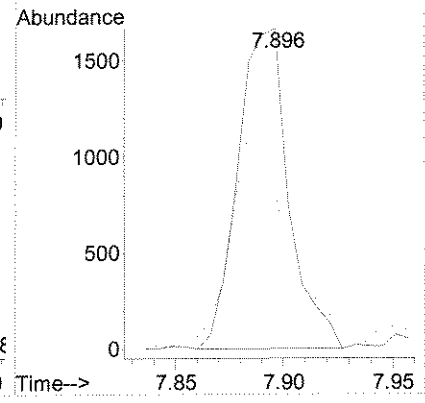
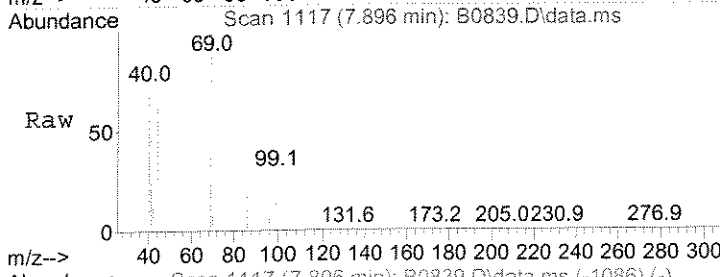
Tgt Ion	Resp	Lower	Upper
91	100		
92	59.2	47.1	70.7
65	9.7	9.3	13.9





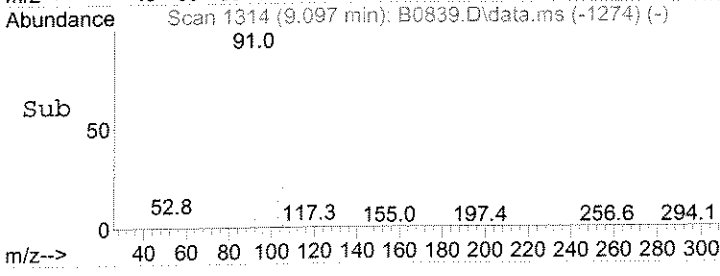
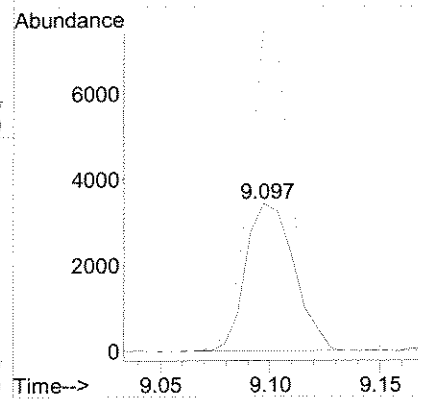
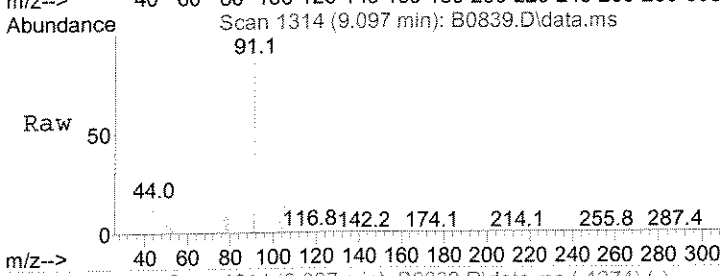
#68
 Ethyl Methacrylate
 Concen: 1.81 ug/L
 RT: 7.896 min Scan# 1117
 Delta R.T. 0.006 min
 Lab File: B0839.D
 Acq: 1 Jul 2008 4:52 am

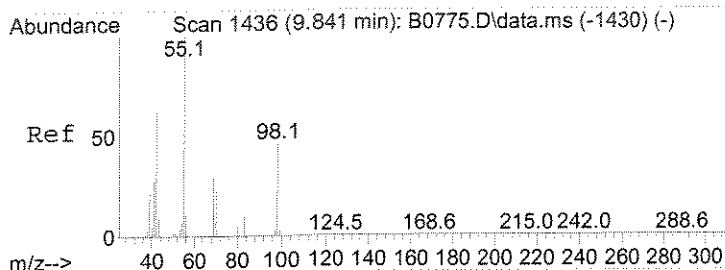
Tgt Ion	Resp	Lower	Upper
69	100		
41	49.3	49.2	73.8



#80
 (m+p)Xylene
 Concen: 0.26 ug/L
 RT: 9.097 min Scan# 1314
 Delta R.T. -0.006 min
 Lab File: B0839.D
 Acq: 1 Jul 2008 4:52 am

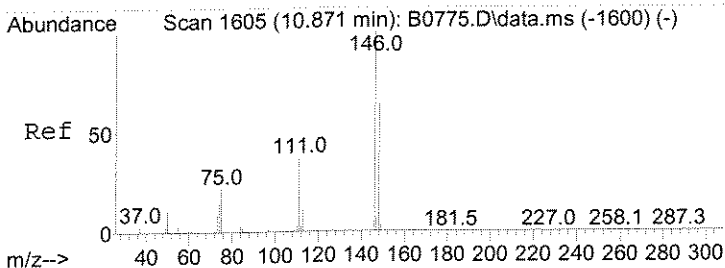
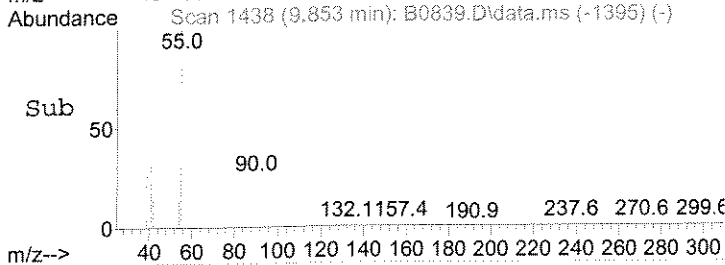
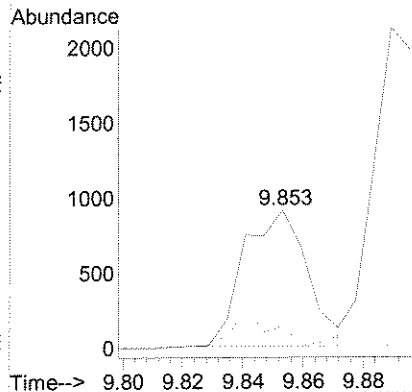
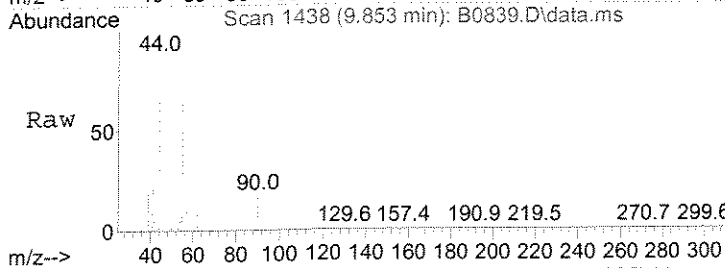
Tgt Ion	Resp	Lower	Upper
106	100		
91	216.5	163.9	245.9
77	34.8	20.6	31.0





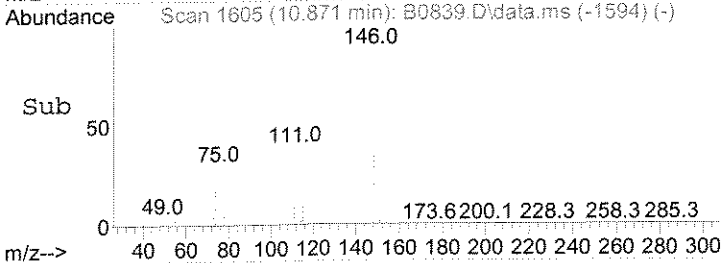
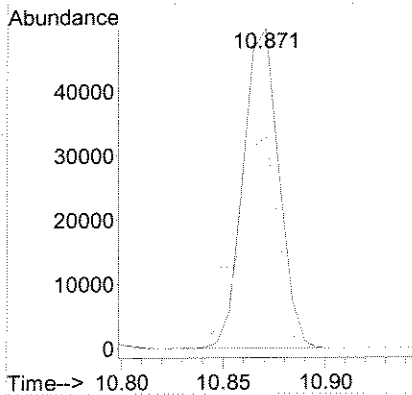
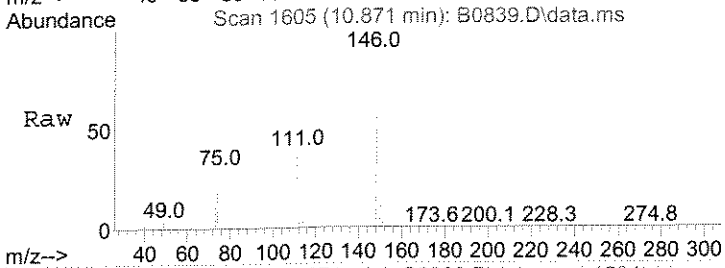
#85
 Cyclohexanone
 Concen: 1.45 ug/L
 RT: 9.853 min Scan# 1438
 Delta R.T. 0.012 min
 Lab File: B0839.D
 Acq: 1 Jul 2008 4:52 am

Tgt Ion: 55 Resp: 1321
 Ion Ratio Lower Upper
 55 100
 42 16.1 49.3 73.9#



#101
 1,4-Dichlorobenzene
 Concen: 2.15 ug/L
 RT: 10.871 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0839.D
 Acq: 1 Jul 2008 4:52 am

Tgt Ion: 146 Resp: 59988
 Ion Ratio Lower Upper
 146 100
 148 66.0 51.2 76.8
 111 38.7 30.0 45.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/24/08 13:35 Order #: 1112069 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.9 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	5.2 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : TRIP BLANK

Date Sampled : 06/24/08 13:35 Order #: 1112069 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	105	%
TOLUENE-D8	(70 - 130 %)	107	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Sample : 1112069 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0840.D Vial: 28
 Acq On : 1 Jul 2008 5:22 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 01 05:36:58 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

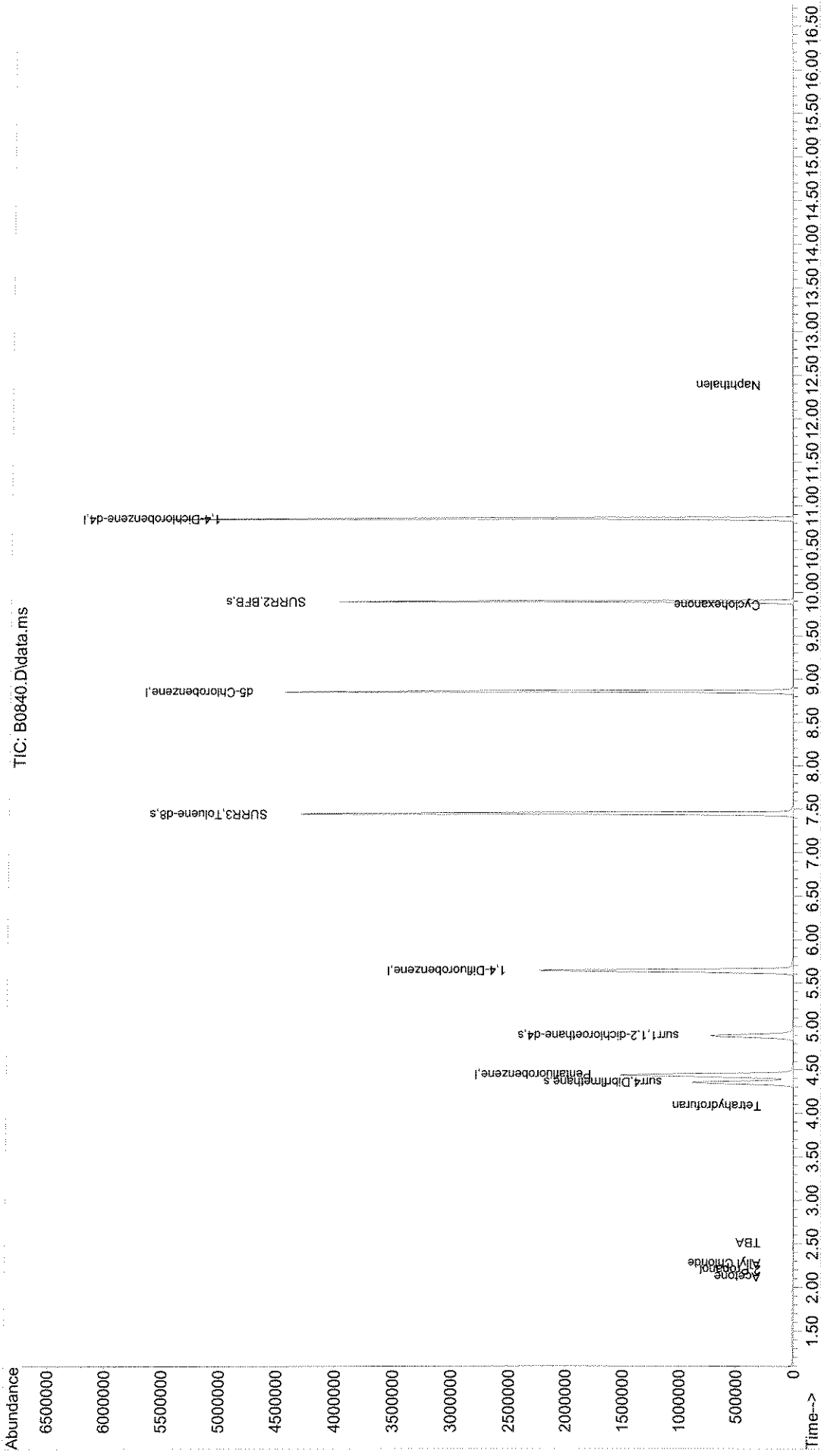
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.440	168	1375664	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2194149	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.854	117	1989057	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1064554	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.355	113	693140	47.78	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	95.56%		
49) surr1,1,2-dichloroetha...	4.891	65	729266	52.88	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.76%		
65) SURR3,Toluene-d8	7.445	98	2563371	53.67	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.34%		
70) SURR2,BFB	9.896	95	1031210	52.43	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	104.86%		
Target Compounds							
16) Acetone	2.123	43	3251	1.92	ug/L		91 JB
17) 2-Propanol	2.203	45	670	1.86	ug/L	#	16
21) Allyl Chloride	2.276	76	2408	0.47	ug/L	#	1
24) TBA	2.514	59	2968	5.18	ug/L		94 J
40) Tetrahydrofuran	4.086	42	470	0.29	ug/L		94 NT
85) Cyclohexanone	9.854	55	2207	2.44	ug/L	#	27
109) Naphthalen	12.384	128	1013	0.56	ug/L	#	89 JB CLR Fu 7/1/08

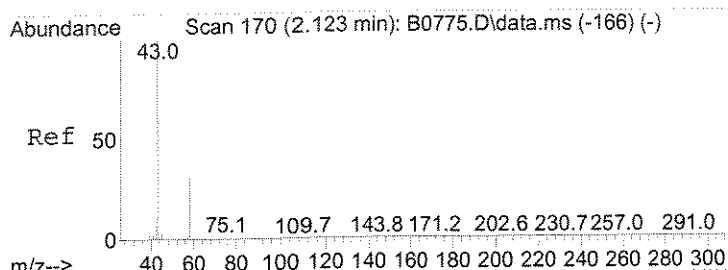
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FN
7/3/08

Sample : 1112069 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0840.D Vial: 28
 Acq On : 1 Jul 2008 5:22 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

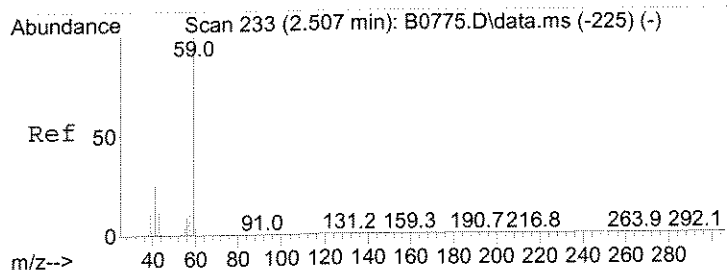
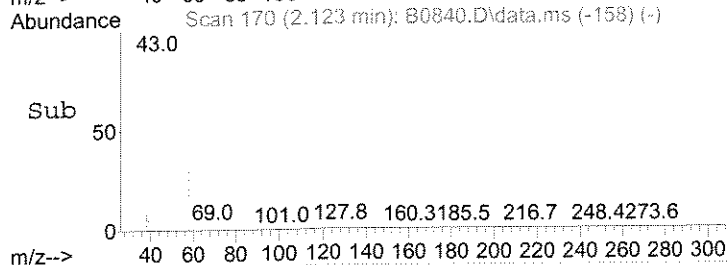
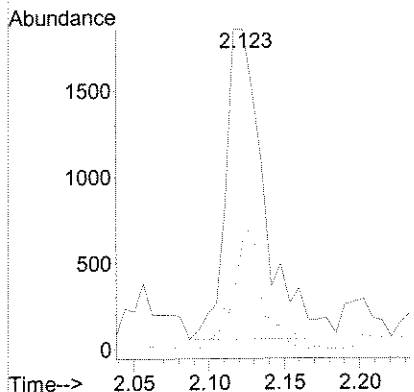
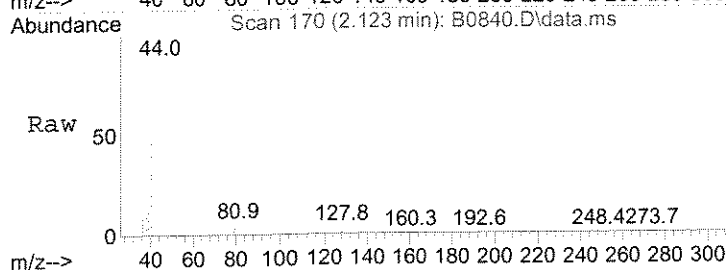
Quant Time: Jul 01 05:36:58 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





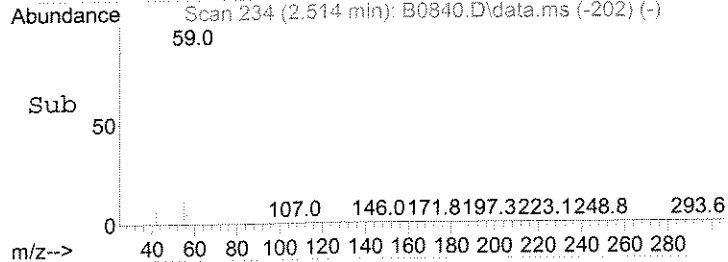
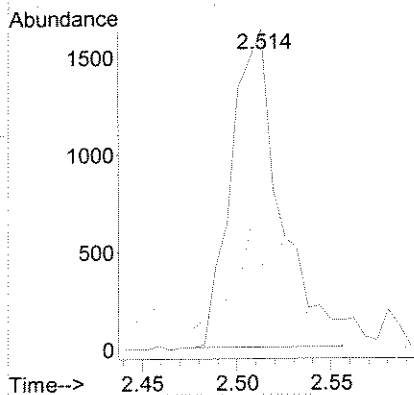
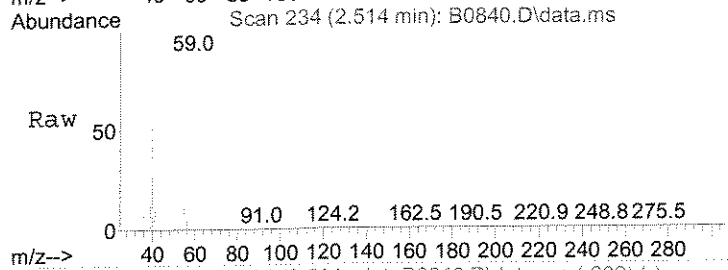
#16
 Acetone
 Concen: 1.92 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. 0.000 min
 Lab File: B0840.D
 Acq: 1 Jul 2008 5:22 am

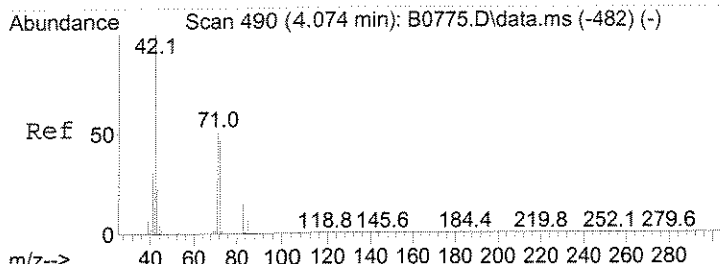
Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.8	0.9	60.9
42	11.2	0.0	37.2



#24
 TBA
 Concen: 5.18 ug/L
 RT: 2.514 min Scan# 234
 Delta R.T. 0.006 min
 Lab File: B0840.D
 Acq: 1 Jul 2008 5:22 am

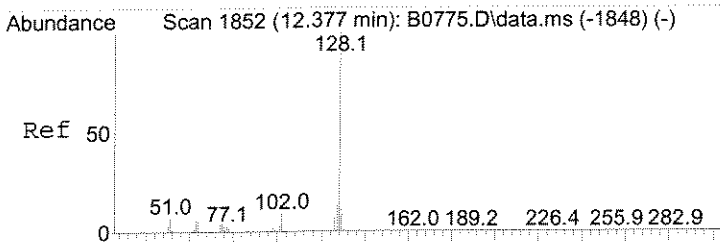
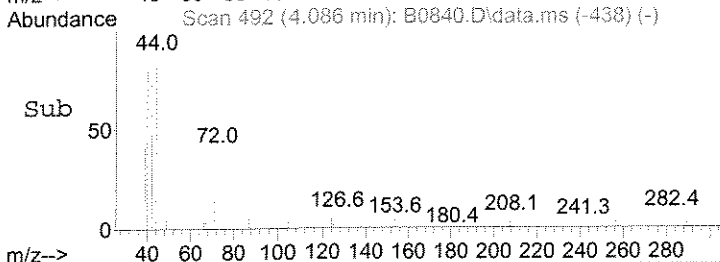
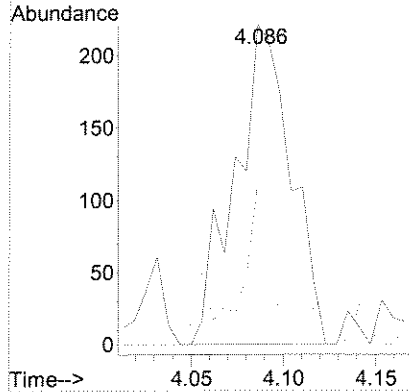
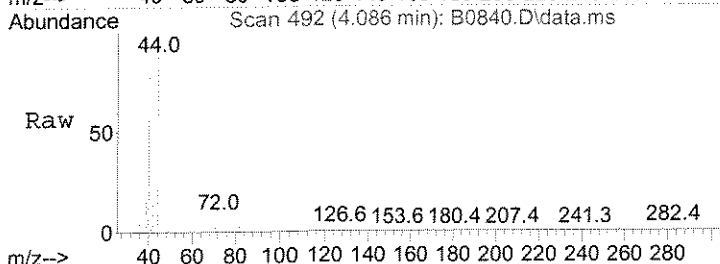
Tgt Ion	Ratio	Lower	Upper
59	100		
41	26.1	14.5	43.6





#40
 Tetrahydrofuran
 Concen: 0.29 ug/L
 RT: 4.086 min Scan# 492
 Delta R.T. 0.012 min
 Lab File: B0840.D
 Acq: 1 Jul 2008 5:22 am

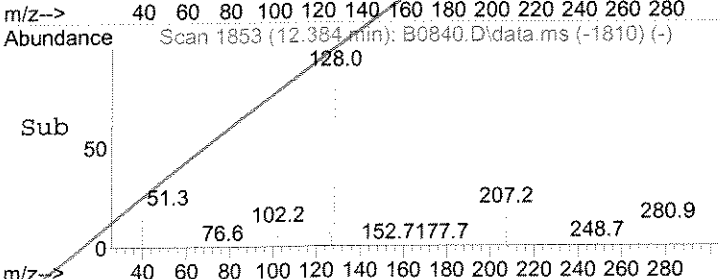
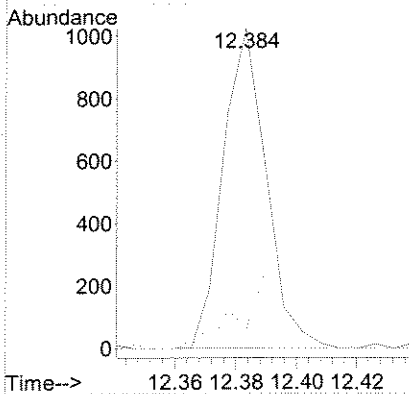
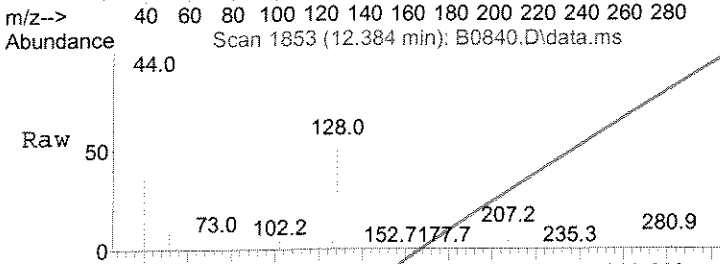
Tgt Ion	Resp	Lower	Upper
42	100		
72	51.1	37.4	56.2



#109
 Naphthalen
 Concen: 0.56 ug/L
 RT: 12.384 min Scan# 1853
 Delta R.T. 0.007 min
 Lab File: B0840.D
 Acq: 1 Jul 2008 5:22 am

Tgt Ion	Resp	Lower	Upper
128	100		
127	6.2	10.0	15.0#
102	9.9	6.9	10.3

fw
 7/21/08



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : TRIP BLANK

Date Sampled : 06/24/08 13:35 Order #: 1112070 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.9 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	5.0 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/24/08 13:35 Order #: 1112070 Sample Matrix: WATER
Date Received: 06/25/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	105	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Sample : 1112070 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0841.D Vial: 29
 Acq On : 1 Jul 2008 5:52 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 01 06:06:47 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

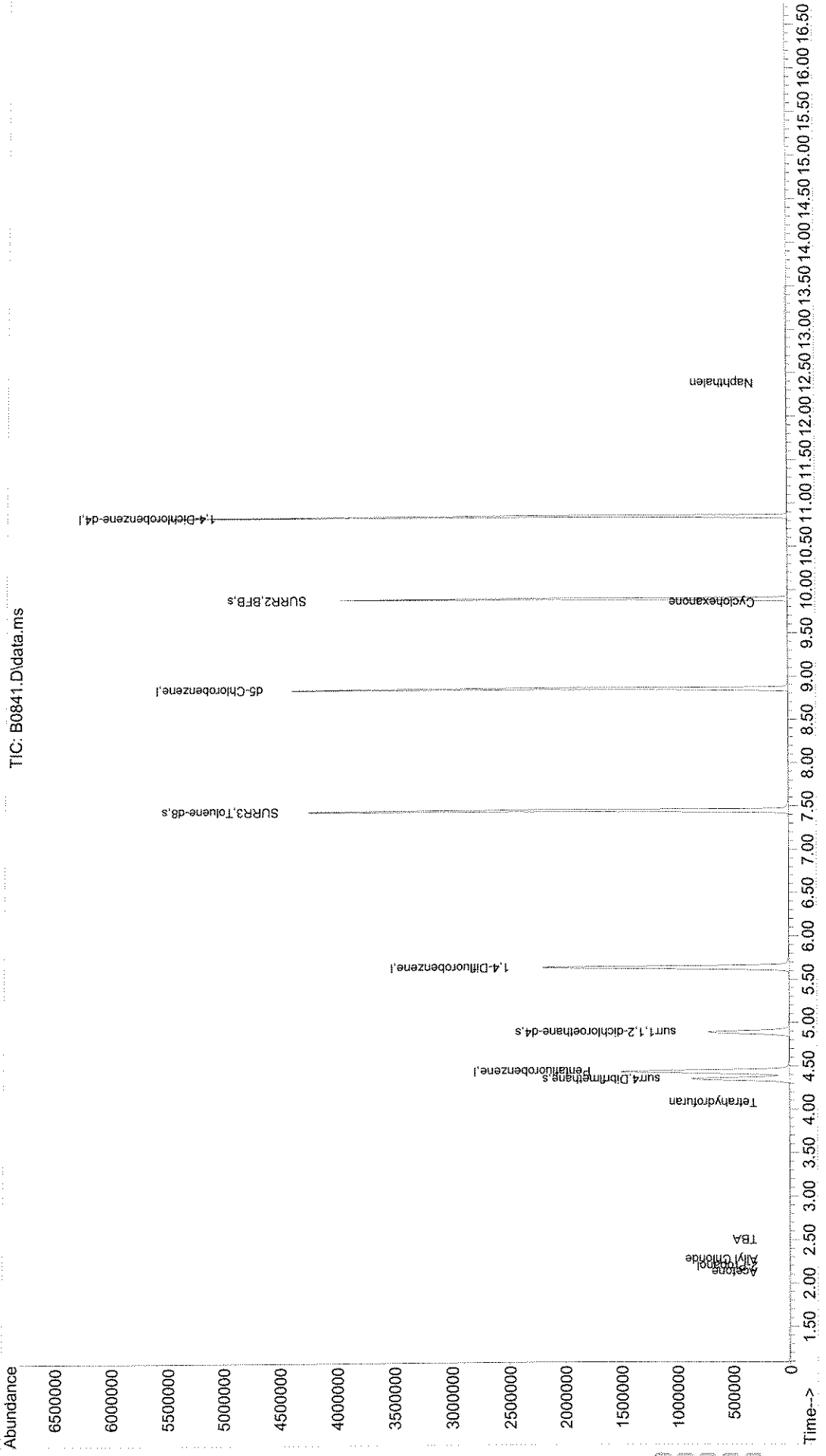
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.440	168	1373932	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2180085	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1988675	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1067372	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.349	113	690613	47.95	ug/L	0.00	
Spiked Amount			Recovery	=	95.90%		
49) surr1,1,2-dichloroetha...	4.891	65	720012	52.54	ug/L	0.00	
Spiked Amount			Recovery	=	105.08%		
65) SURR3,Toluene-d8	7.452	98	2553600	53.81	ug/L	0.00	
Spiked Amount			Recovery	=	107.62%		
70) SURR2,BFB	9.896	95	1027466	52.57	ug/L	0.00	
Spiked Amount			Recovery	=	105.14%		
Target Compounds							
16) Acetone	2.129	43	3283	1.94	ug/L		99 JB
17) 2-Propanol	2.196	45	1125	3.12	ug/L		92 NT
21) Allyl Chloride	2.276	76	2009	0.39	ug/L #		1
24) TBA	2.507	59	2863	5.01	ug/L		87 J
40) Tetrahydrofuran	4.080	42	529	0.32	ug/L #		60
85) Cyclohexanone	9.854	55	486	0.54	ug/L #		24
109) Naphthalen	12.384	128	968	0.56	ug/L #		88 JB < LR

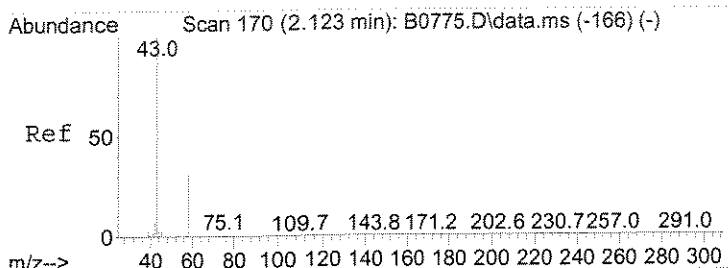
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FU
7/3/08

Sample : 1112070 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0841.D Vial: 29
 Acq On : 1 Jul 2008 5:52 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

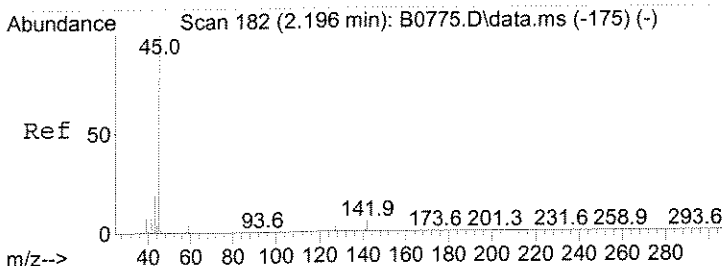
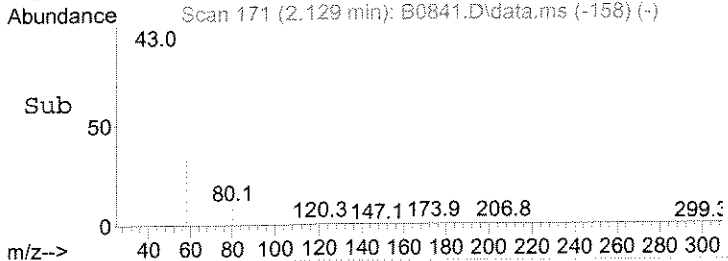
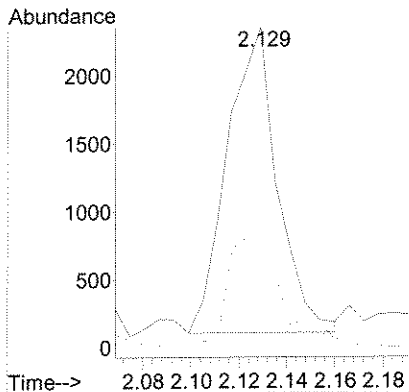
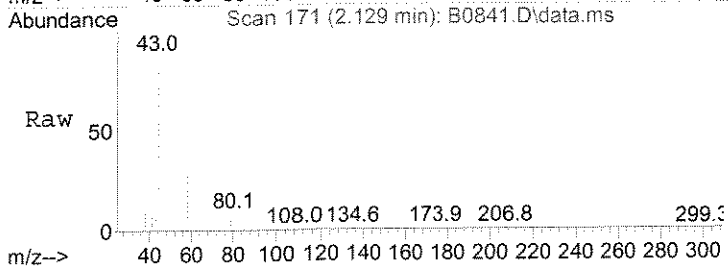
Quant Time: Jul 01 06:06:47 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





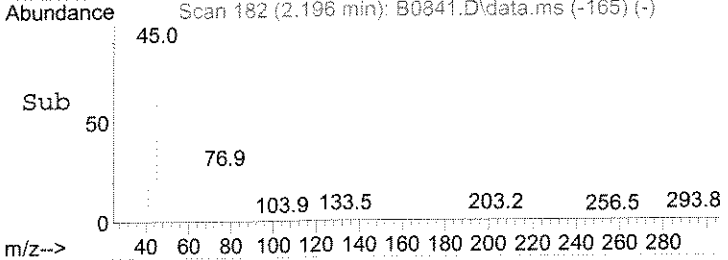
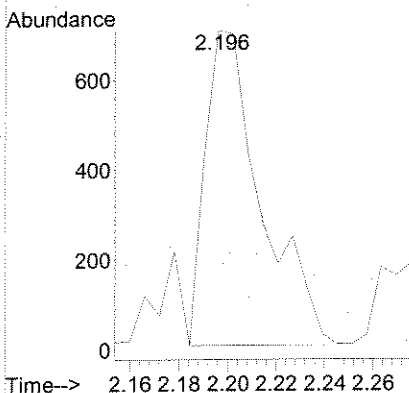
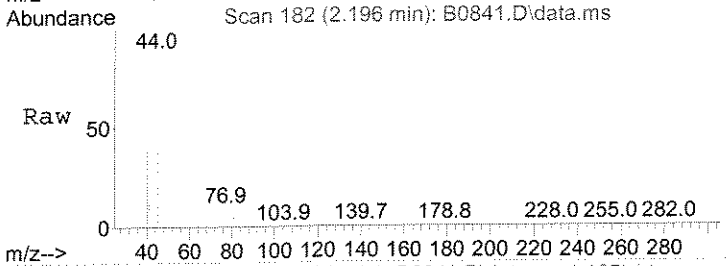
#16
 Acetone
 Concen: 1.94 ug/L
 RT: 2.129 min Scan# 171
 Delta R.T. 0.006 min
 Lab File: B0841.D
 Acq: 1 Jul 2008 5:52 am

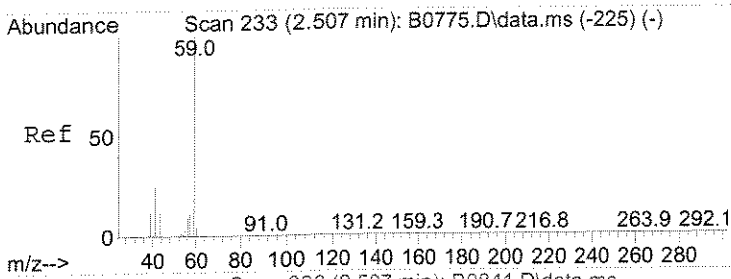
Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.6	0.9	60.9
42	7.6	0.0	37.2



#17
 2-Propanol
 Concen: 3.12 ug/L
 RT: 2.196 min Scan# 182
 Delta R.T. -0.006 min
 Lab File: B0841.D
 Acq: 1 Jul 2008 5:52 am

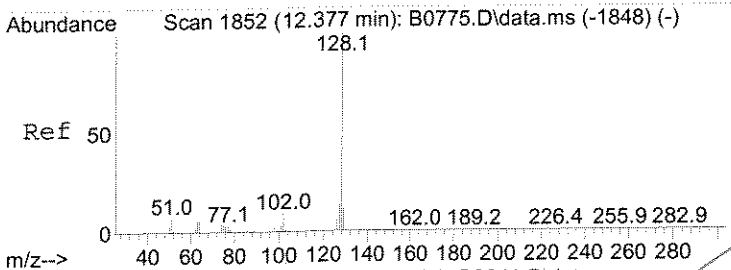
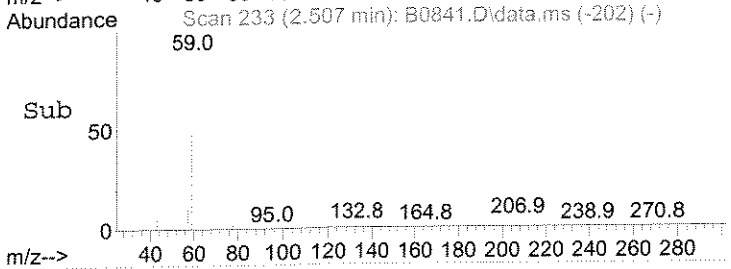
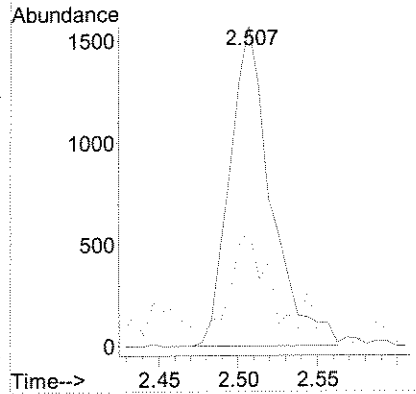
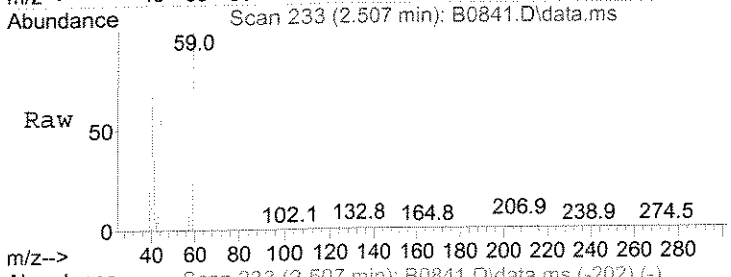
Tgt Ion	Ratio	Lower	Upper
45	100		
43	24.8	17.0	25.4





#24
 TBA
 Concen: 5.01 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. 0.000 min
 Lab File: B0841.D
 Acq: 1 Jul 2008 5:52 am

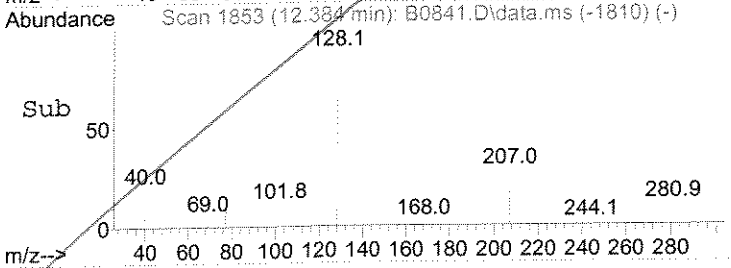
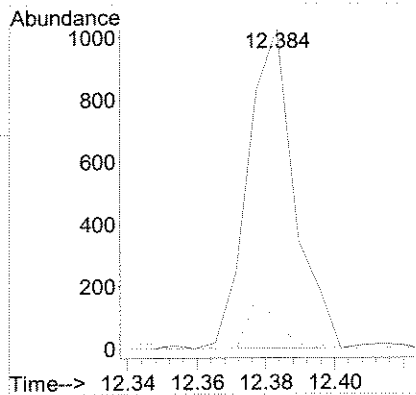
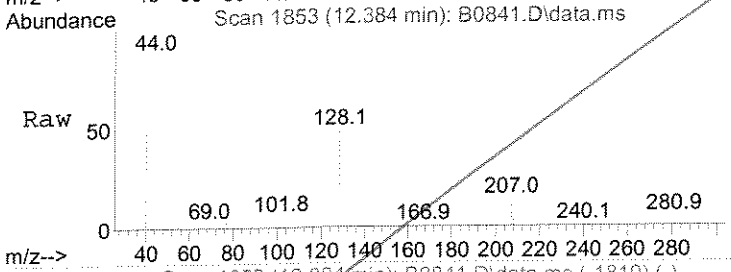
Tgt Ion	Resp	Lower	Upper
59	100		
41	36.0	14.5	43.6



#109
 Naphthalen
 Concen: 0.56 ug/L
 RT: 12.384 min Scan# 1853
 Delta R.T. 0.007 min
 Lab File: B0841.D
 Acq: 1 Jul 2008 5:52 am

Tgt Ion	Resp	Lower	Upper
128	100		
127	7.4	10.0	15.0#
102	12.5	6.9	10.3#

*FW
 7/21/08*



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-45B

Date Sampled : 06/25/08 13:00 Order #: 1112486 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.1 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	3.9 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	0.54 J	UG/L
CHLOROETHANE	2.0	0.30 J	UG/L
CHLOROFORM	1.0	3.0	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	3.8	UG/L
1,4-DICHLOROBENZENE	2.0	5.6	UG/L
1,3-DICHLOROBENZENE	2.0	0.32 J	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	0.22 J	UG/L
1,2-DICHLOROETHANE	1.0	0.29 J	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-45B

Date Sampled : 06/25/08 13:00 Order #: 1112486 Sample Matrix: WATER
Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	0.44 J	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	4.0	UG/L
1,2,3-TRICHLOROBENZENE	2.0	1.0 J	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	105	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Sample : 1112486 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0842.D Vial: 30
 Acq On : 1 Jul 2008 6:22 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 01 06:36:36 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

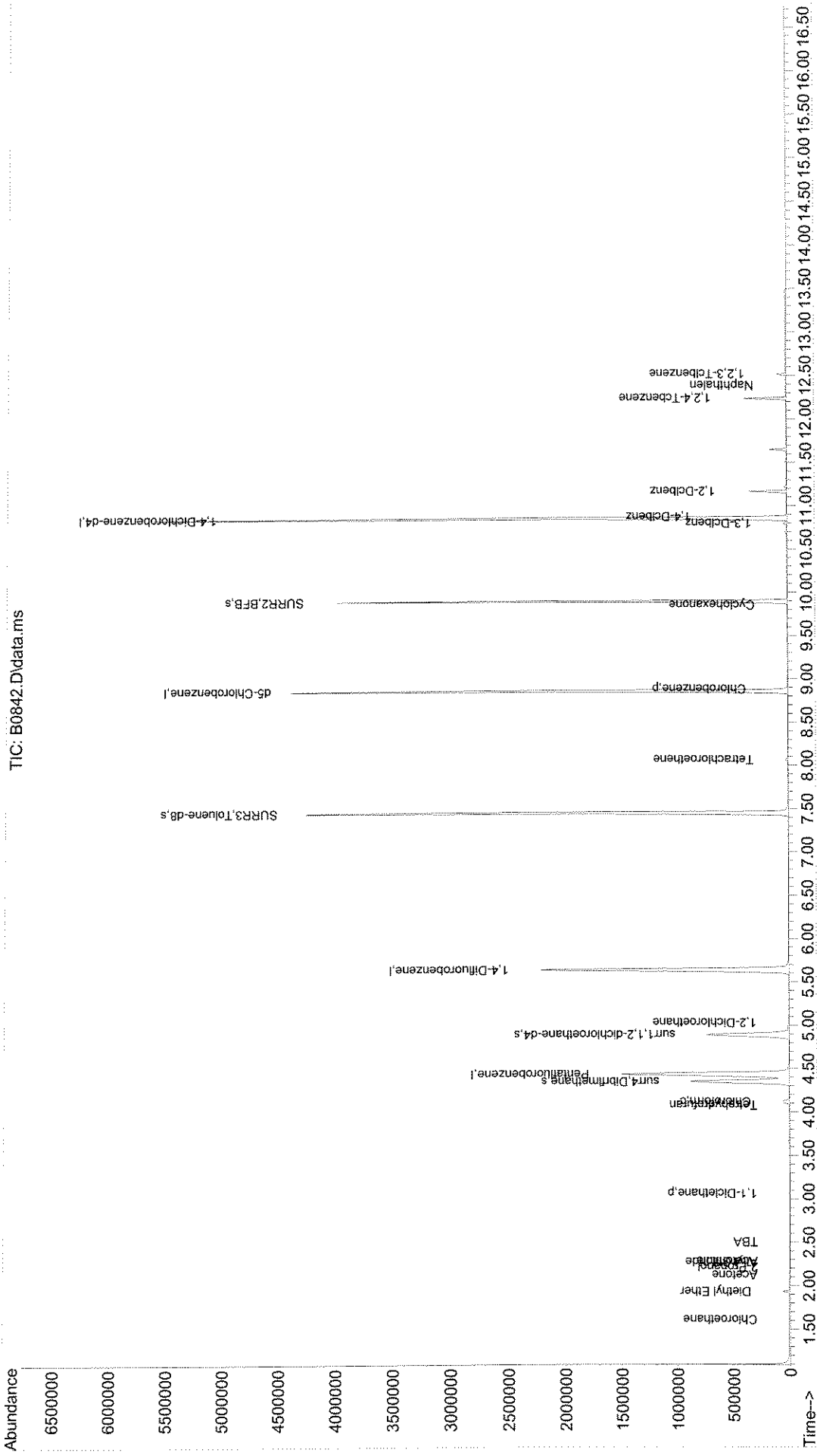
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1351914	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2163481	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1975973	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1073348	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	691506	48.53	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	97.06%		
49) surr1,1,2-dichloroetha...	4.891	65	738975	54.34	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.68%		
65) SURR3,Toluene-d8	7.451	98	2550181	54.15	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.30%		
70) SURR2,BFB	9.896	95	1018582	52.52	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.04%		
Target Compounds							
							Qvalue
7) Chloroethane	1.611	64	1742	0.30	ug/L		95 J
10) Diethyl Ether	1.934	59	21305	3.49	ug/L		94 NT
16) Acetone	2.123	43	1895	1.14	ug/L		82 JB
17) 2-Propanol	2.215	45	174	0.49	ug/L #		55
20) Acetonitrile	2.282	40	576	2.47	ug/L #		1
21) Allyl Chloride	2.276	76	4392	0.86	ug/L #		1
24) TBA	2.507	59	2203	3.91	ug/L		85 JS
28) 1,1-Dicethane	3.062	63	4282	0.22	ug/L		99
40) Tetrahydrofuran	4.080	42	1623	1.01	ug/L		97 NT
41) Chloroform	4.117	83	59210	3.02	ug/L		93
51) 1,2-Dichloroethane	5.031	62	4370	0.29	ug/L #		83
72) Tetrachloroethene	8.067	164	4313	0.44	ug/L #		88 JS
77) Chlorobenzene	8.884	112	17702	0.54	ug/L		92
85) Cyclohexanone	9.853	55	2146	2.39	ug/L #		27
100) 1,3-Dclbenz	10.798	146	8563	0.32	ug/L		97 J
101) 1,4-Dclbenz	10.871	146	155910	5.57	ug/L		100
104) 1,2-Dclbenz	11.164	146	96189	3.78	ug/L		98
107) 1,2,4-Tcbenzene	12.237	180	70135	4.04	ug/L		99
109) Naphthalen	12.383	128	960	0.56	ug/L #		77 <i>LR</i>
110) 1,2,3-Tclbenzene	12.518	180	16116	1.01	ug/L #		95 <i>LR</i>

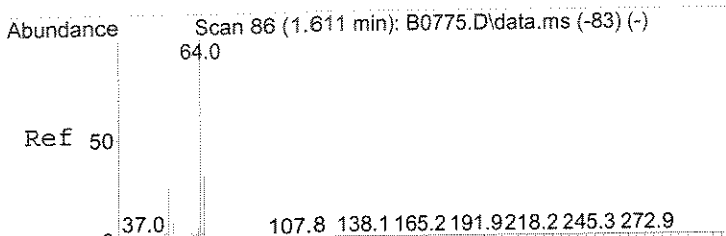
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FU
7/3/08

Sample : 1112486 1.0 Vial: 30
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0842.D
 Acq On : 1 Jul 2008 6:22 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

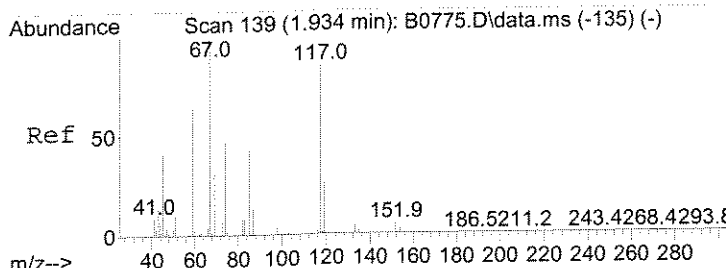
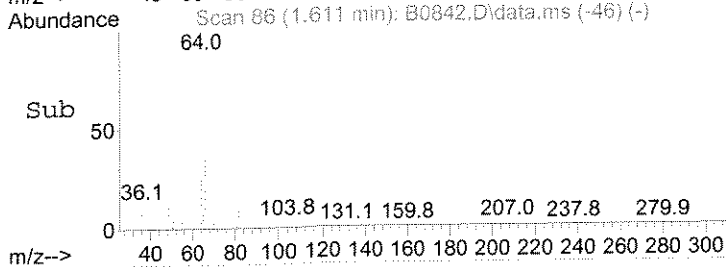
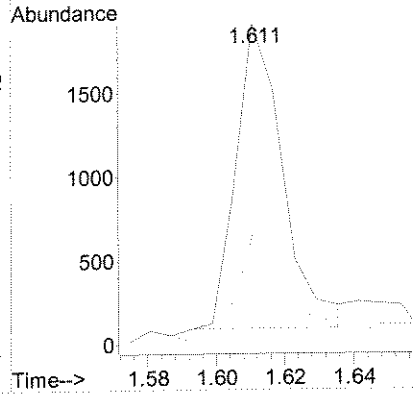
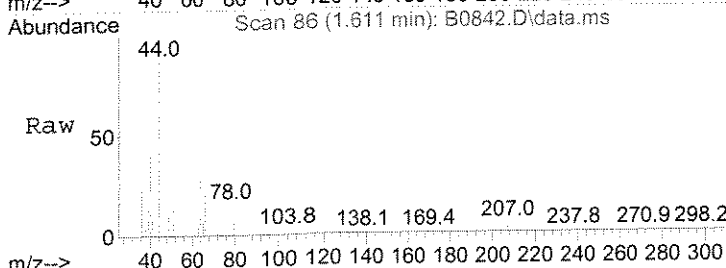
Quant Time: Jul 01 06:36:36 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





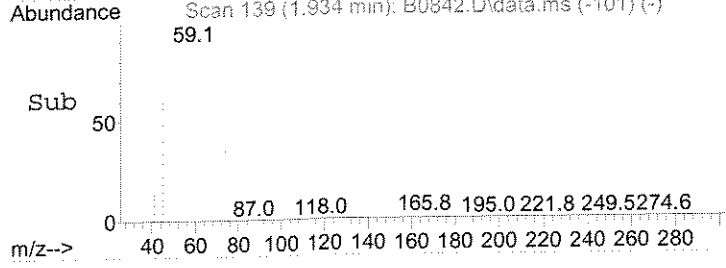
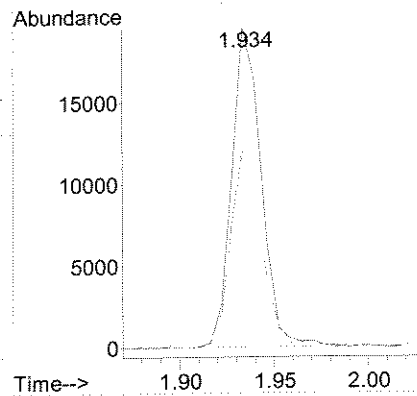
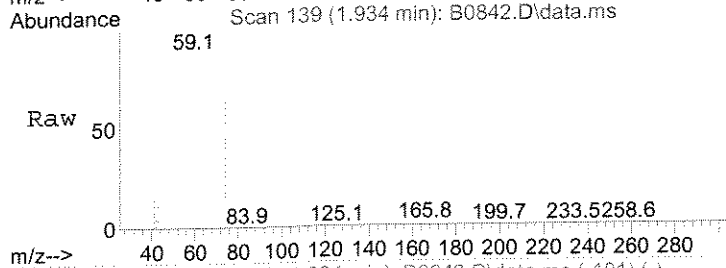
#7
 Chloroethane
 Concen: 0.30 ug/L
 RT: 1.611 min Scan# 86
 Delta R.T. -0.000 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

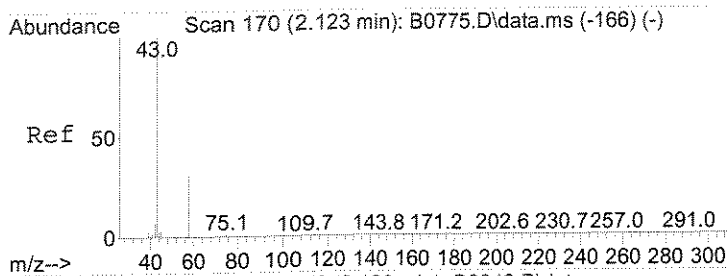
Tgt Ion	Resp	Lower	Upper
64	1742		
66	35.4	2.3	62.3



#10
 Diethyl Ether
 Concen: 3.49 ug/L
 RT: 1.934 min Scan# 139
 Delta R.T. -0.000 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

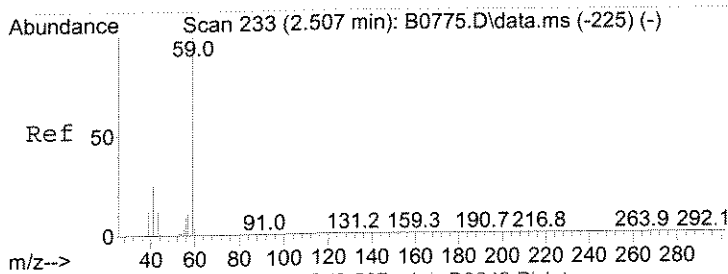
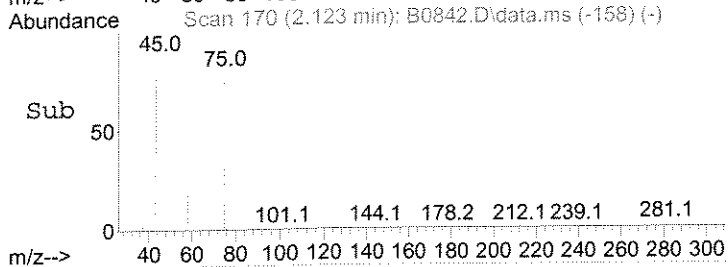
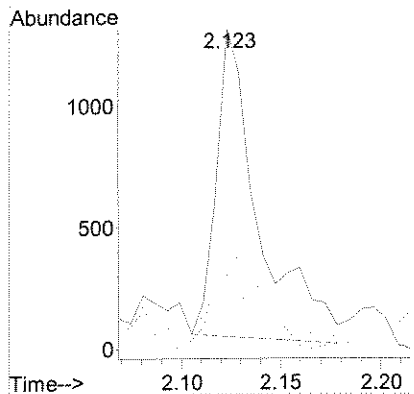
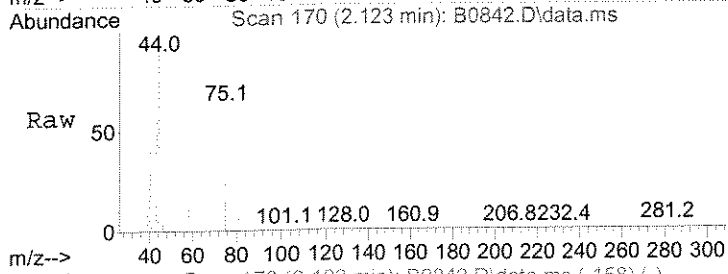
Tgt Ion	Resp	Lower	Upper
59	21305		
45	62.1	31.6	94.7
74	64.2	36.7	110.1





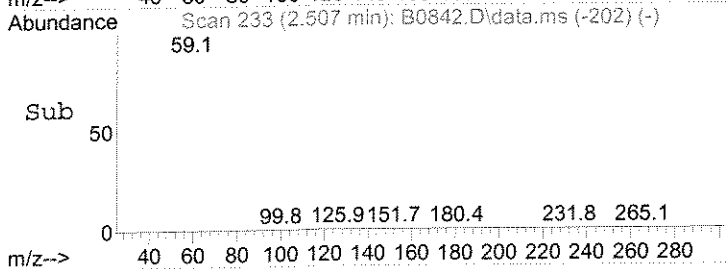
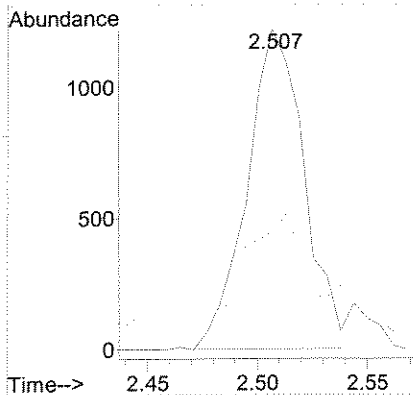
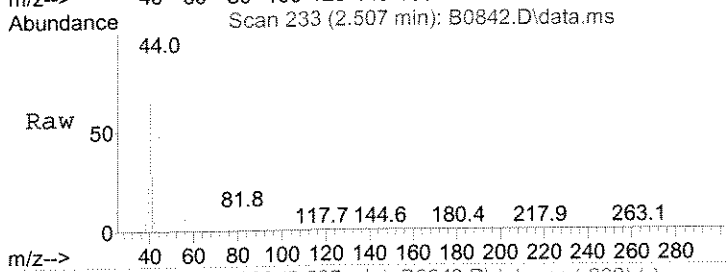
#16
 Acetone
 Concen: 1.14 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

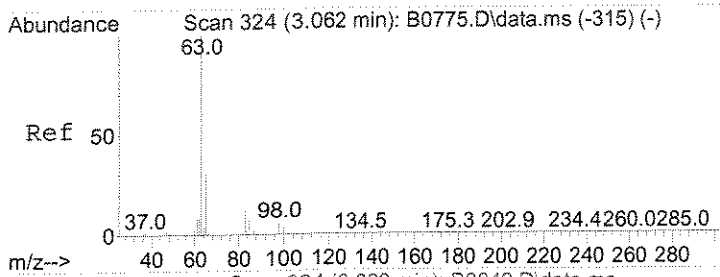
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	1895		
58	23.0		0.9	60.9
42	18.6		0.0	37.2



#24
 TBA
 Concen: 3.91 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

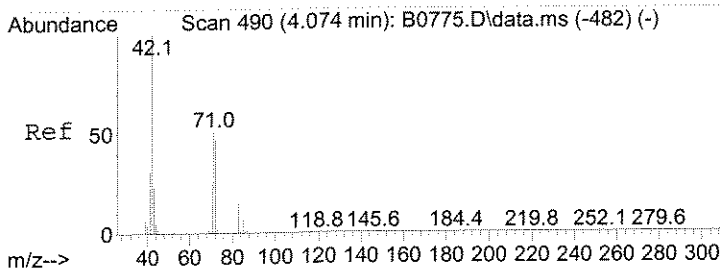
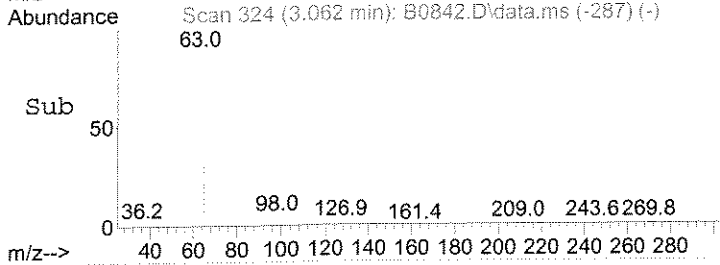
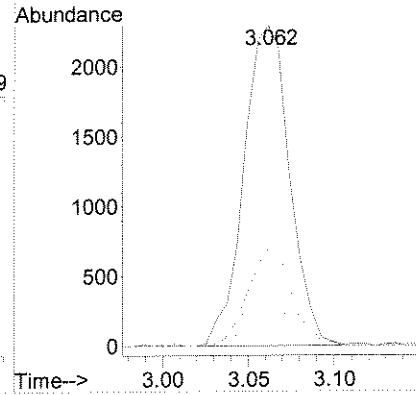
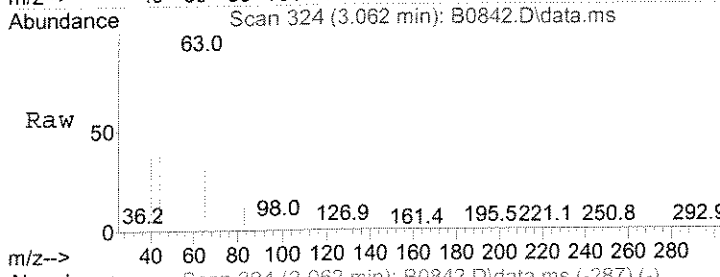
Tgt Ion	Ratio	Resp	Lower	Upper
59	100	2203		
41	36.9		14.5	43.6





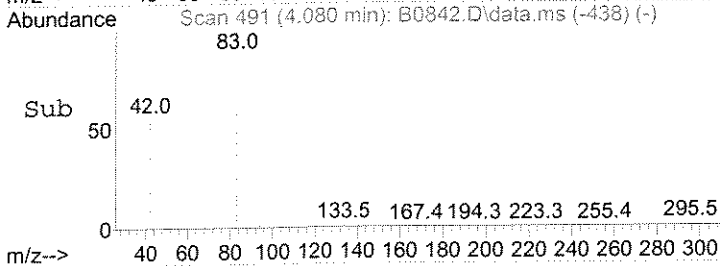
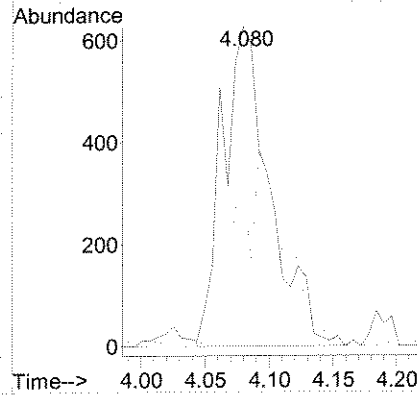
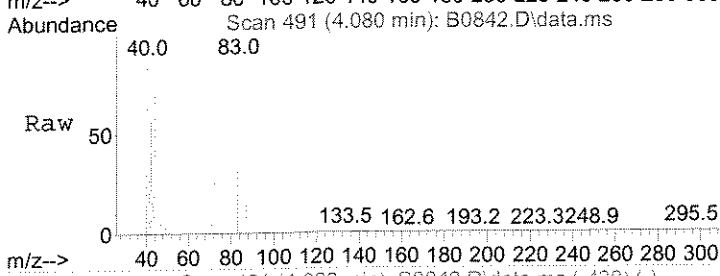
#28
 1,1-Dicylethane
 Concen: 0.22 ug/L
 RT: 3.062 min Scan# 324
 Delta R.T. -0.000 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

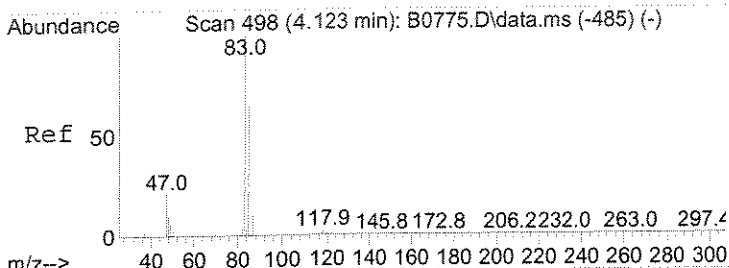
Tgt Ion	Resp	Lower	Upper
63	100		
65	30.8	24.9	37.3
83	12.4	10.5	15.7



#40
 Tetrahydrofuran
 Concen: 1.01 ug/L
 RT: 4.080 min Scan# 491
 Delta R.T. 0.006 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

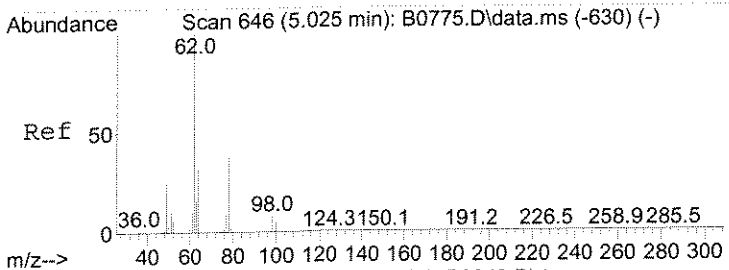
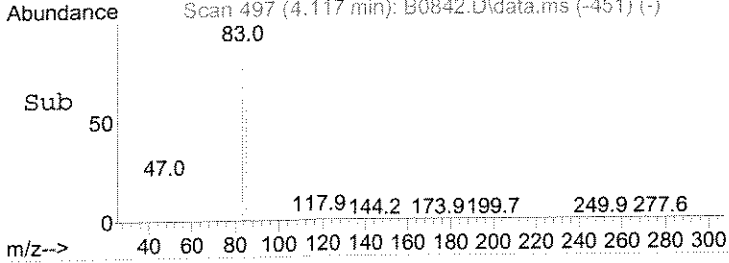
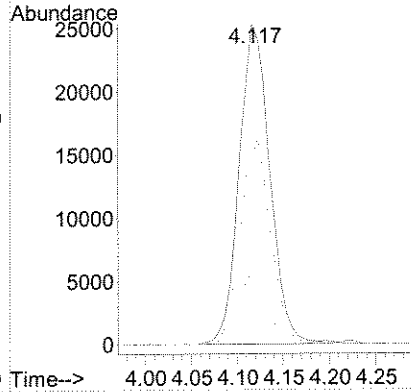
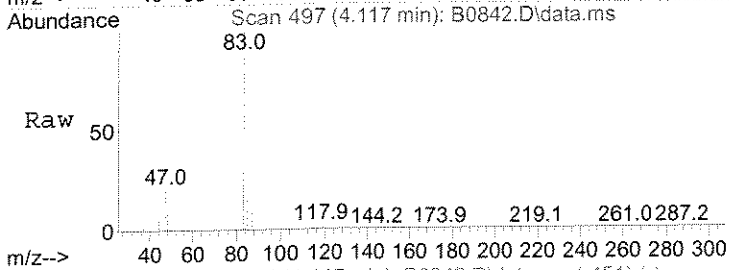
Tgt Ion	Resp	Lower	Upper
42	100		
72	48.5	37.4	56.2





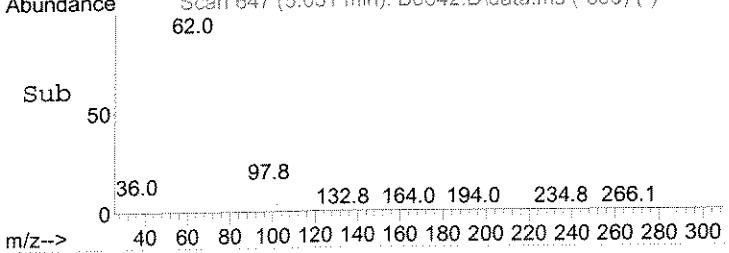
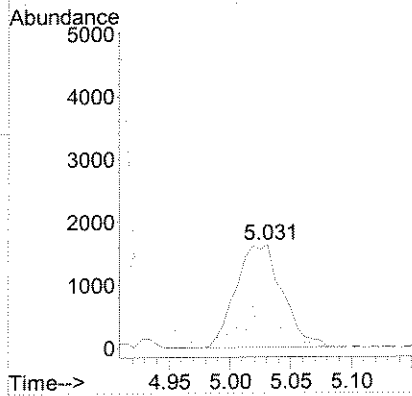
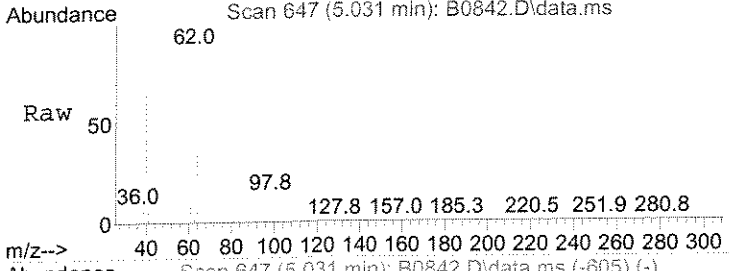
#41
 Chloroform
 Concen: 3.02 ug/L
 RT: 4.117 min Scan# 497
 Delta R.T. -0.006 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

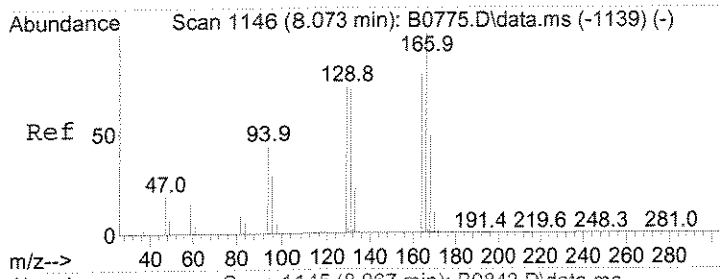
Tgt Ion	Ratio	Lower	Upper
83	100		
85	57.5	51.7	77.5
47	21.1	17.1	25.7



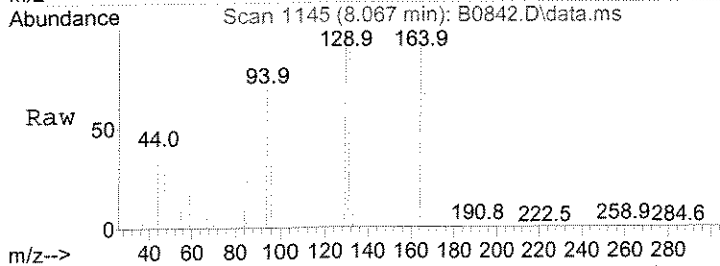
#51
 1,2-Dichloroethane
 Concen: 0.29 ug/L
 RT: 5.031 min Scan# 647
 Delta R.T. 0.006 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

Tgt Ion	Ratio	Lower	Upper
62	100		
64	40.0	26.5	39.7#
49	36.8	20.2	30.4#

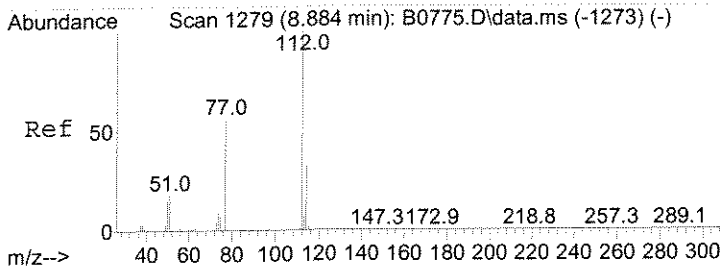
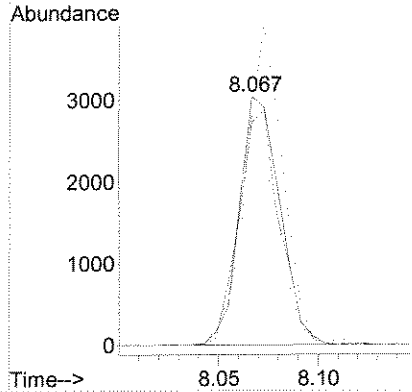
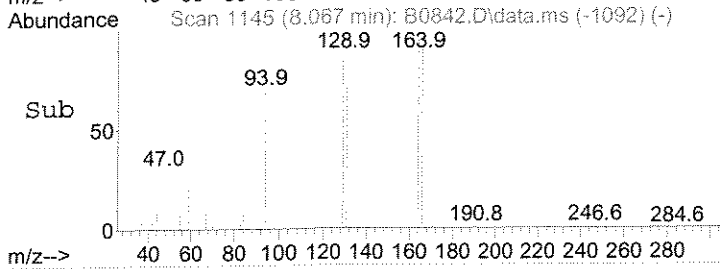




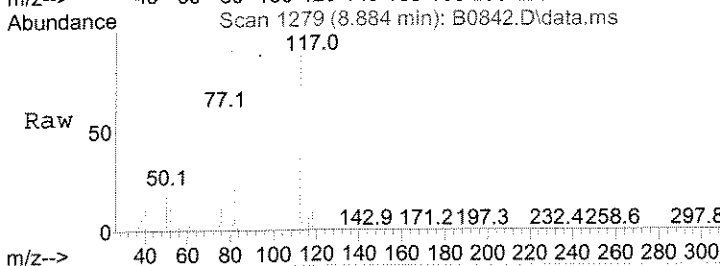
#72
 Tetrachloroethene
 Concen: 0.44 ug/L
 RT: 8.067 min Scan# 1145
 Delta R.T. -0.006 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am



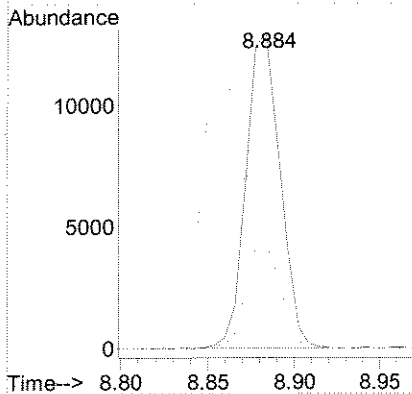
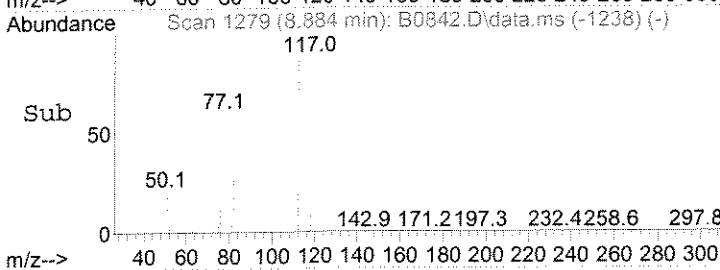
Tgt Ion	Ratio	Resp	Lower	Upper
164	100	4313		
166	94.3	101.5	152.3#	
129	93.0	73.8	110.6	
131	90.0	72.9	109.3	

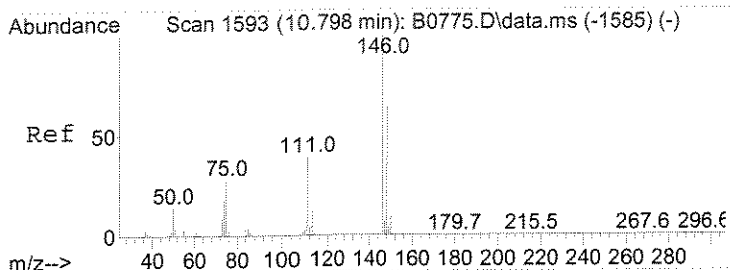


#77
 Chlorobenzene
 Concen: 0.54 ug/L
 RT: 8.884 min Scan# 1279
 Delta R.T. -0.000 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am



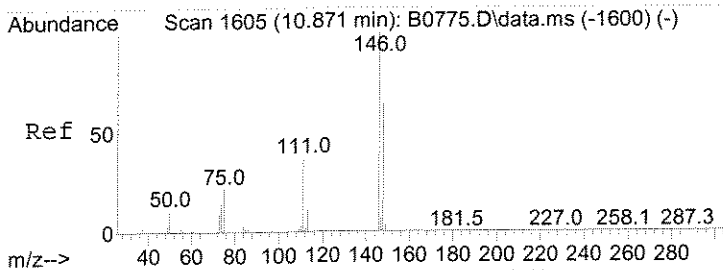
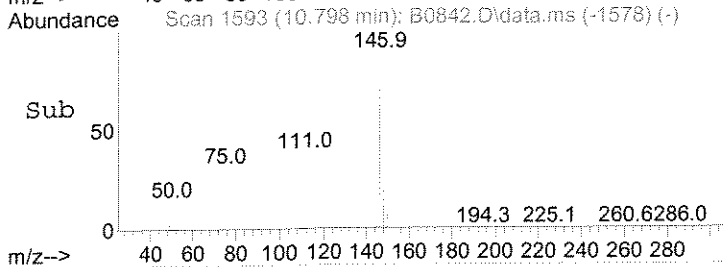
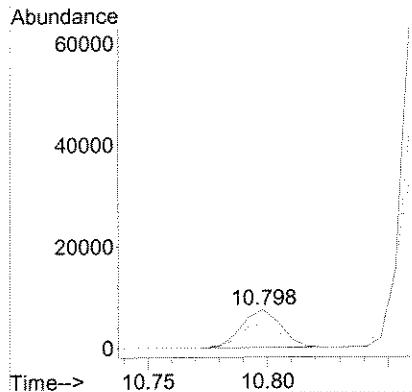
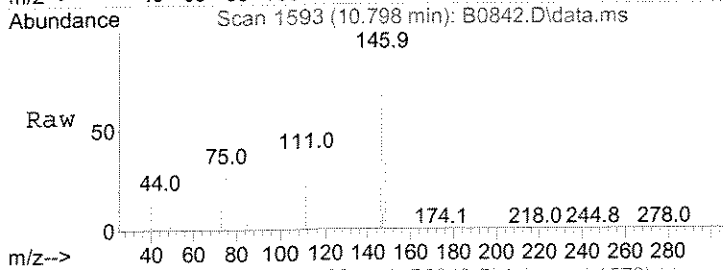
Tgt Ion	Ratio	Resp	Lower	Upper
112	100	17702		
114	32.6	25.8	38.6	
77	65.1	45.0	67.6	





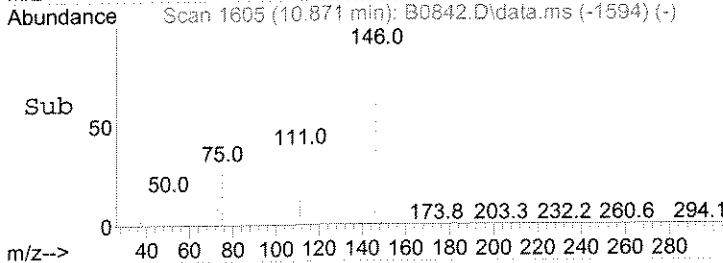
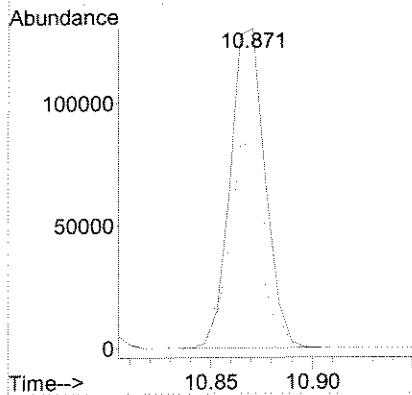
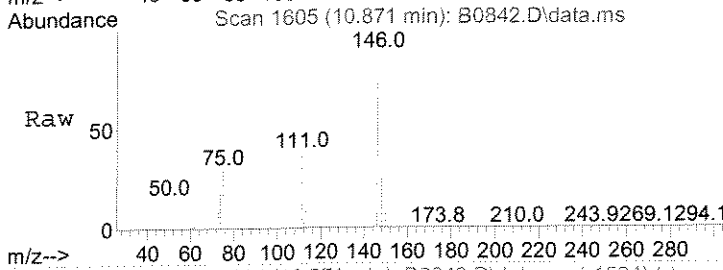
#100
 1,3-DcIbenz
 Concen: 0.32 ug/L
 RT: 10.798 min Scan# 1593
 Delta R.T. -0.000 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

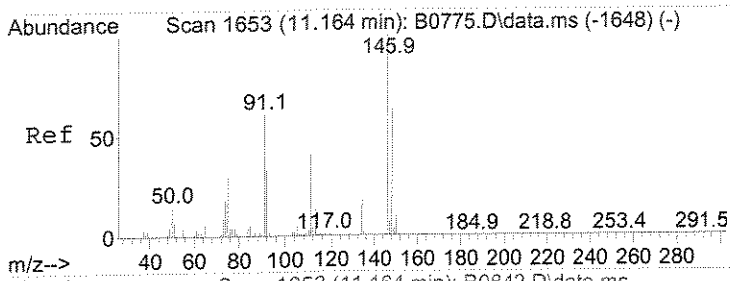
Tgt Ion	Ratio	Lower	Upper
146	100		
148	60.4	51.2	76.8
111	38.3	31.4	47.0



#101
 1,4-DcIbenz
 Concen: 5.57 ug/L
 RT: 10.871 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

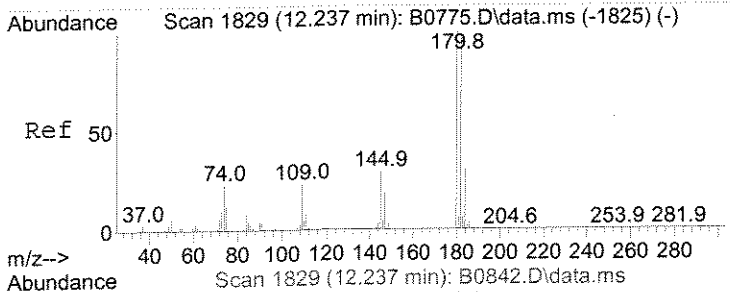
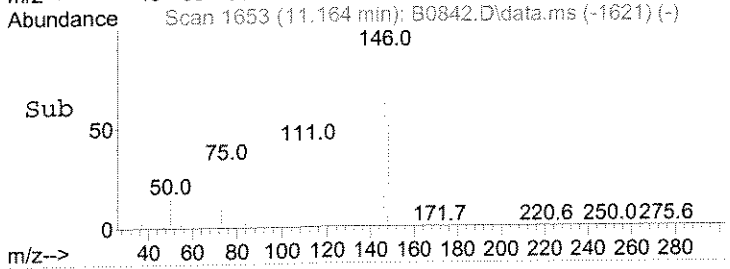
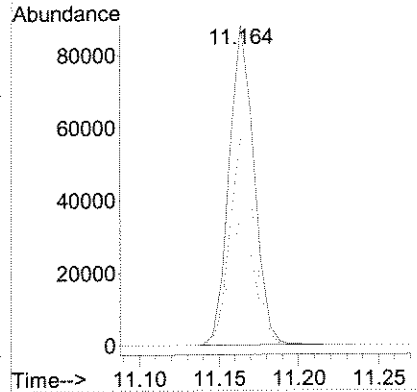
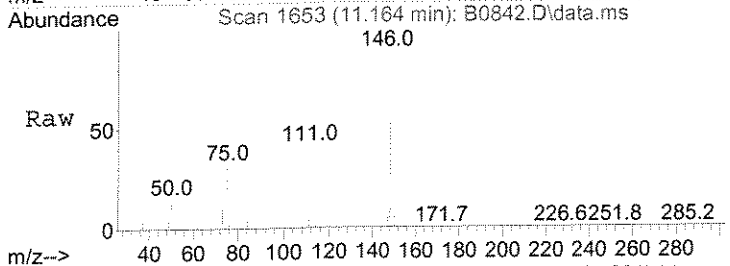
Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
111	37.7	30.0	45.0





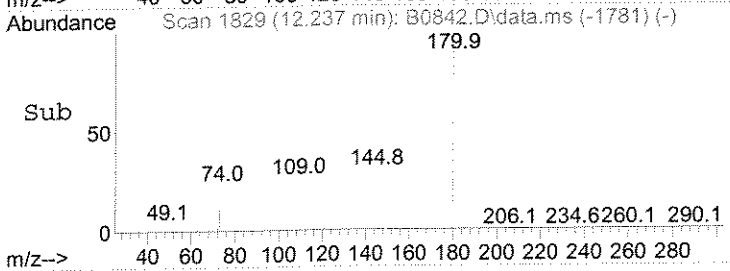
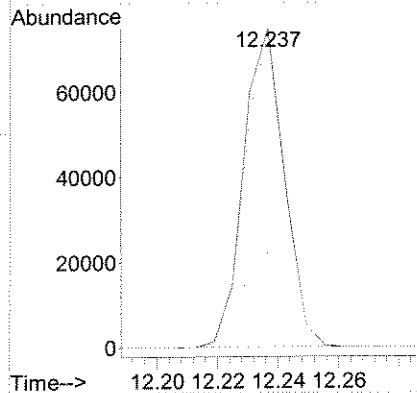
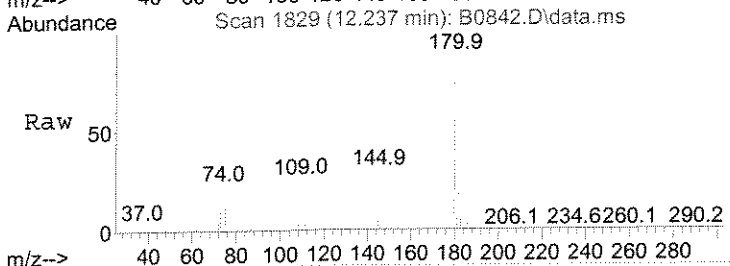
#104
 1,2-Dclbenz
 Concen: 3.78 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. -0.000 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

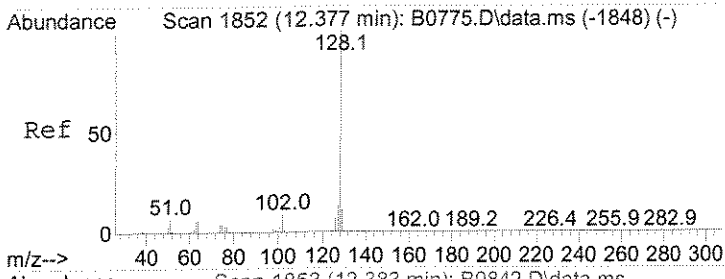
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	96189		
148	65.2	50.3	75.5	
111	41.0	33.0	49.4	



#107
 1,2,4-Tcbenzene
 Concen: 4.04 ug/L
 RT: 12.237 min Scan# 1829
 Delta R.T. -0.000 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	70135		
182	98.2	77.8	116.6	
145	29.8	23.2	34.8	

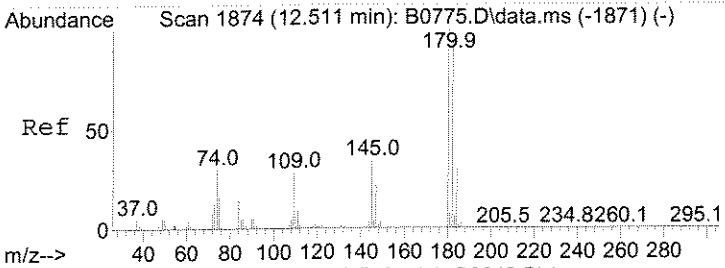
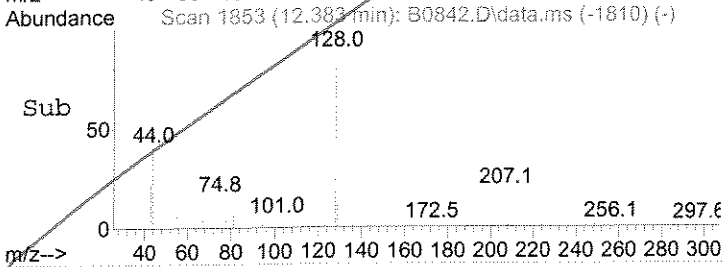
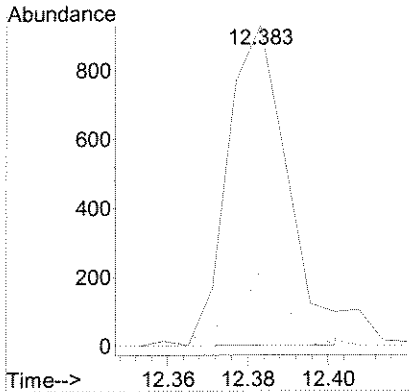
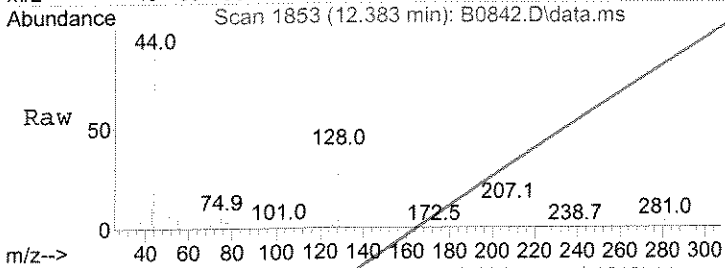




#109
 Naphthalen
 Concen: 0.56 ug/L
 RT: 12.383 min Scan# 1853
 Delta R.T. 0.006 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

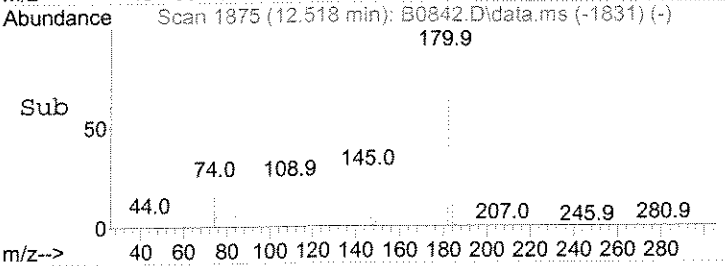
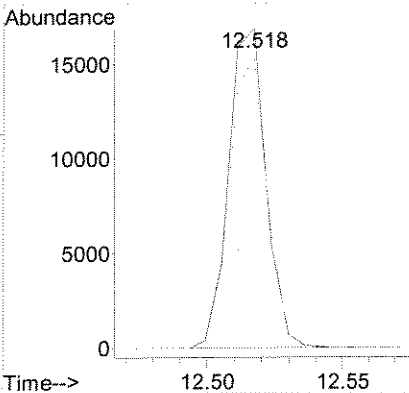
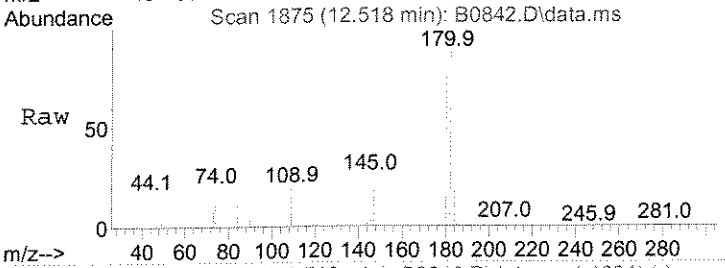
FJ
 7/21/08

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	960		
127	21.2		10.0	15.0#
102	0.0		6.9	10.3#



#110
 1,2,3-Tclbenzene
 Concen: 1.01 ug/L
 RT: 12.518 min Scan# 1875
 Delta R.T. -0.000 min
 Lab File: B0842.D
 Acq: 1 Jul 2008 6:22 am

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	16116		
182	91.2		74.4	111.6
145	26.1		27.2	40.8#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-53B

Date Sampled : 06/25/08 12:00 Order #: 1112487 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.6 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	2.8 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	1.1 J	UG/L
CHLOROFORM	1.0	13	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	1.5 J	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	2.6	UG/L
1,2-DICHLOROETHANE	1.0	1.0	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-53B

Date Sampled : 06/25/08 12:00 Order #: 1112487 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.73 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	2.3	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	0.57 J	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Sample : 1112487 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0843.D Vial: 31
 Acq On : 1 Jul 2008 6:52 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 01 07:06:28 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1354259	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2169131	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1965654	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1079060	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	693351	48.54	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	97.08%		
49) surr1,1,2-dichloroetha...	4.891	65	748620	54.91	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.82%		
65) SURR3,Toluene-d8	7.451	98	2553013	54.07	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.14%		
70) SURR2,BFB	9.896	95	1027429	52.84	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.68%		
Target Compounds							
							Qvalue
7) Chloroethane	1.611	64	6235	1.08	ug/L		99 J
10) Diethyl Ether	1.934	59	28089	4.59	ug/L		94 NT
16) Acetone	2.123	43	2694	1.61	ug/L		88 JB
17) 2-Propanol	2.135	45	9138	25.72	ug/L		92
21) Allyl Chloride	2.276	76	3485	0.68	ug/L #		1
23) Methylene Chloride	2.446	84	8320	0.73	ug/L		90
24) TBA	2.507	59	1554	2.76	ug/L #		71 JS
28) 1,1-Dicethane	3.062	63	49898	2.59	ug/L		99
40) Tetrahydrofuran	4.086	42	2343 1420	1.46	0.88	ug/L #	75 NT
41) Chloroform	4.123	83	249620	12.70	ug/L		99
51) 1,2-Dichloroethane	5.019	62	15861	1.05	ug/L		91
54) Trichloroethene	5.988	130	6793	0.57	ug/L		92 J
59) Methyl Methacrylate	6.494	69	357	1.52	ug/L #		90
72) Tetrachloroethene	8.073	164	22820	2.33	ug/L		93
85) Cyclohexanone	9.847	55	445	0.50	ug/L #		53
101) 1,4-Dclbenz	10.865	146	40992	1.46	ug/L		96 J
109) Naphthalen	12.377	128	913	0.56	ug/L #		78 SB CLR

(#) = qualifier out of range (m) = manual integration (+) = signals summed

FU
7/1/08

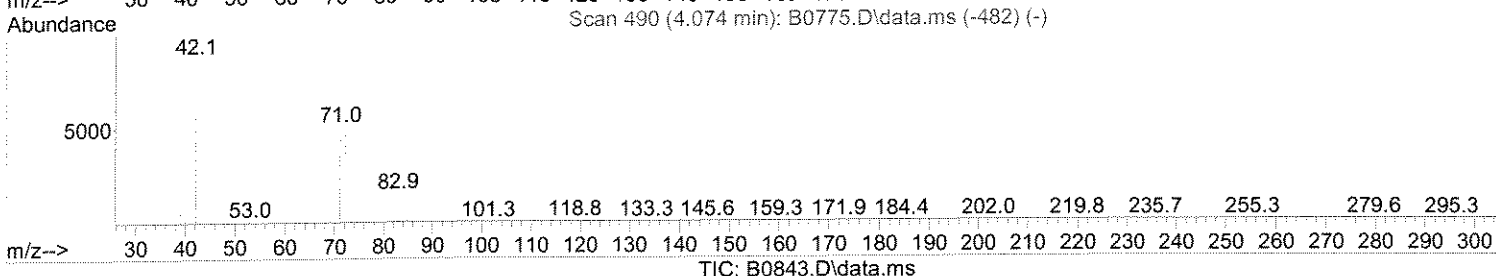
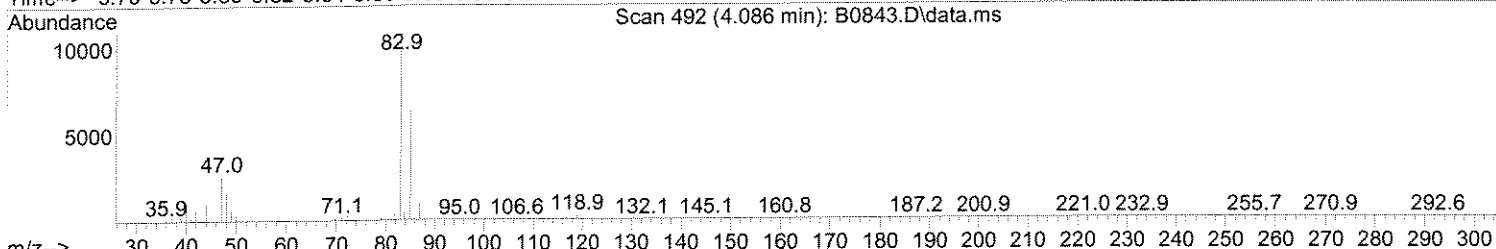
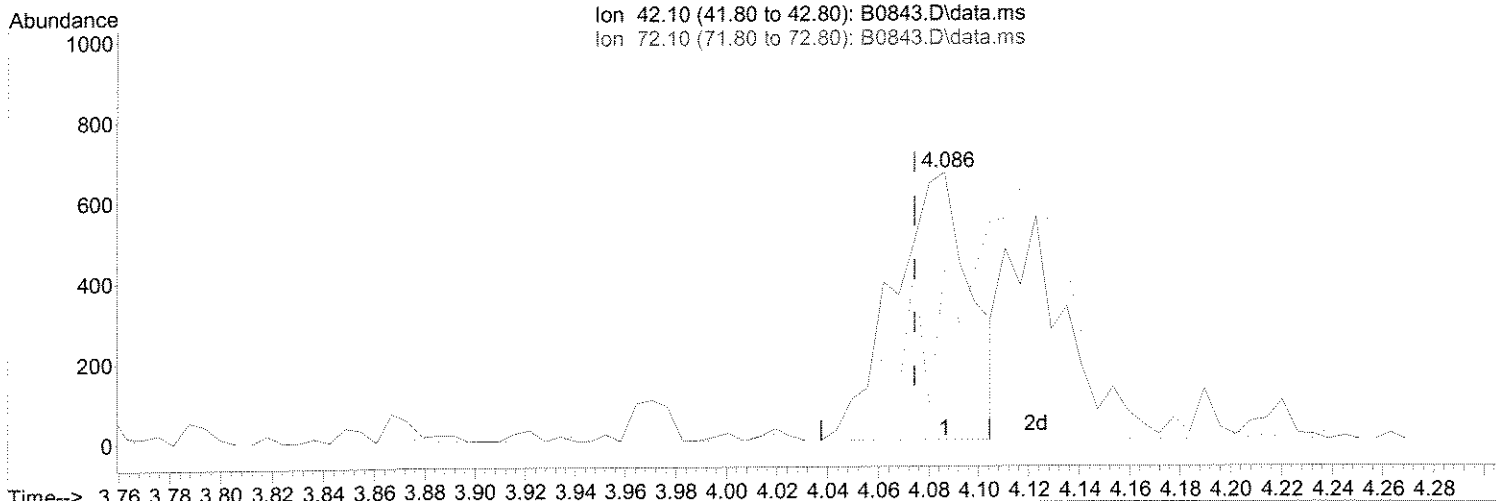
Quantitation Report (Qedit)

Sample : 1112487 1.0
 Data File : J:\ACQUDATA\msvoa10\data\063008\B0843.D Vial: 31
 Acq On : 1 Jul 2008 6:52 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

FU
7/3/08

Quant Time: Jul 01 07:06:28 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

B bad int.



(40) Tetrahydrofuran
 4.086min (+0.012) 0.88 ug/L

response 1420

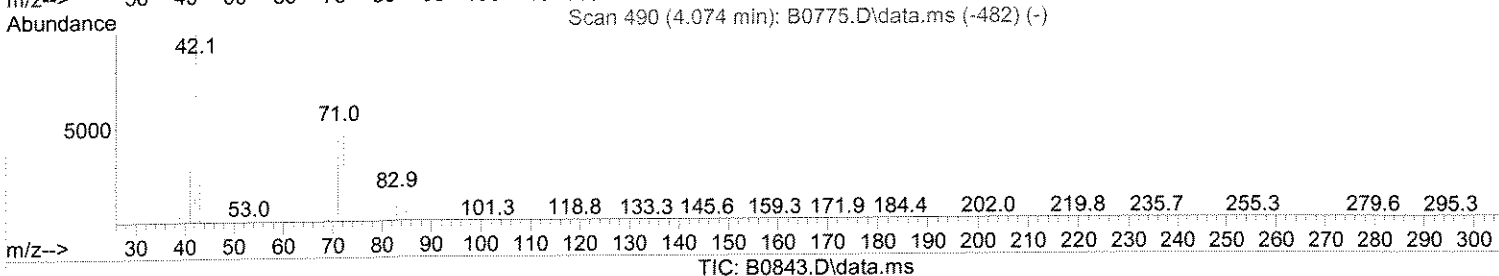
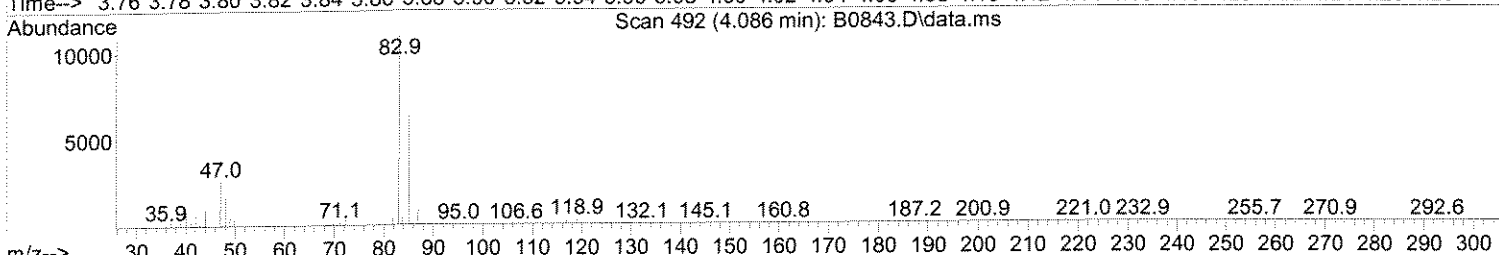
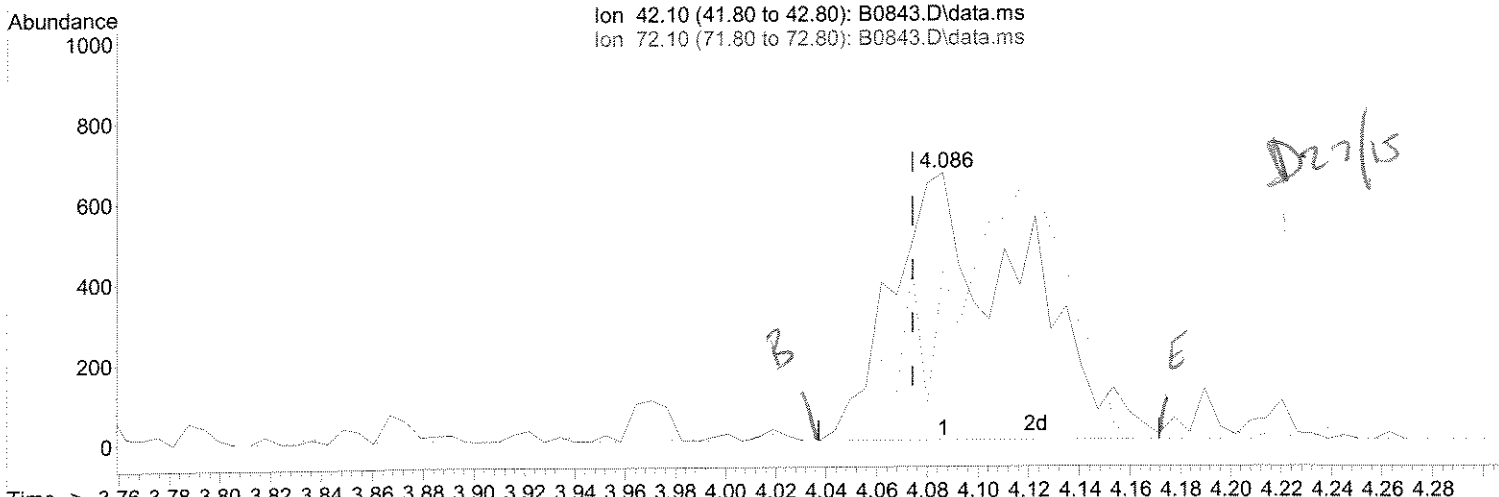
Ion	Exp%	Act%
42.10	100	100
72.10	46.80	63.40#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 1112487 1.0
 Data File : J:\ACQUDATA\msvoa10\data\063008\B0843.D Vial: 31
 Acq On : 1 Jul 2008 6:52 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 01 07:06:28 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

A FW 7/3/08
 D27/15



(40) Tetrahydrofuran

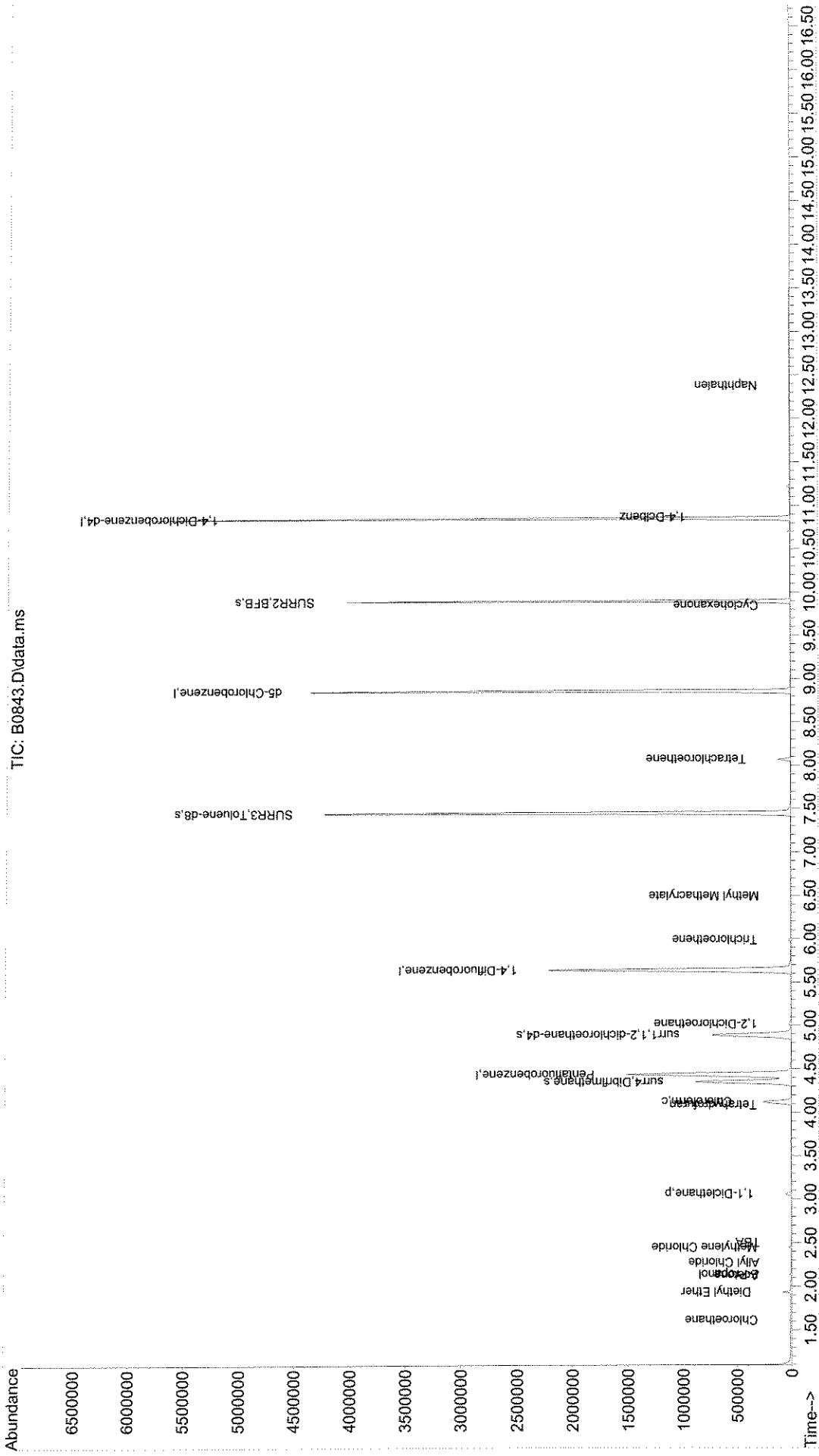
4.086min (+0.012) 1.46 ug/L m

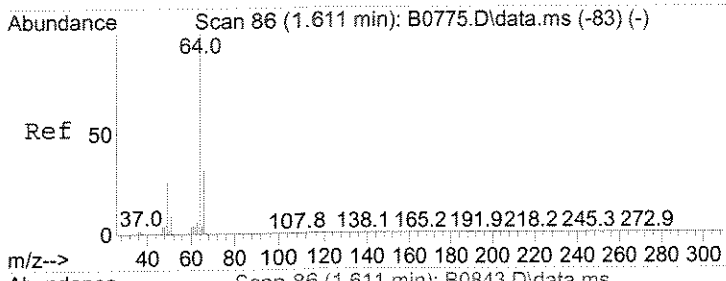
response 2343

Ion	Exp%	Act%
42.10	100	100
72.10	46.80	63.40#
0.00	0.00	0.00
0.00	0.00	0.00

Sample : 1112487 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0843.D Vial: 31
 Acq On : 1 Jul 2008 6:52 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

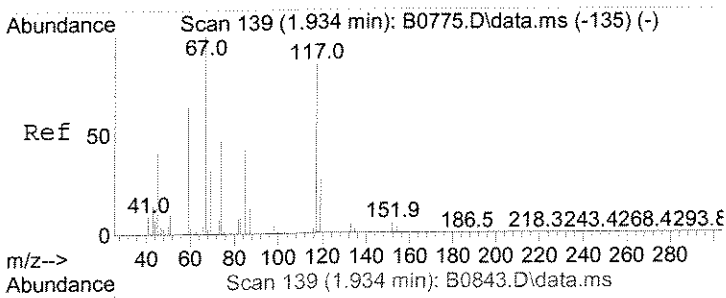
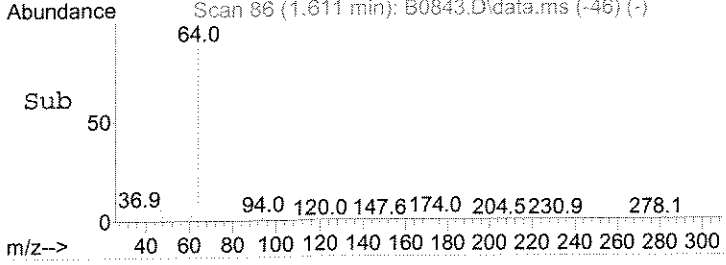
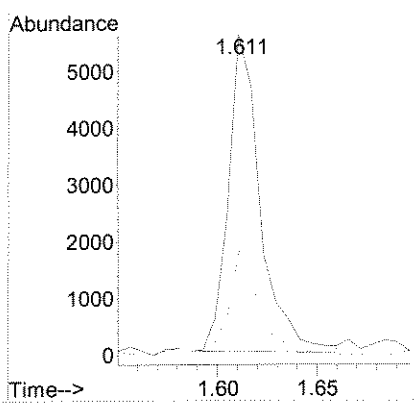
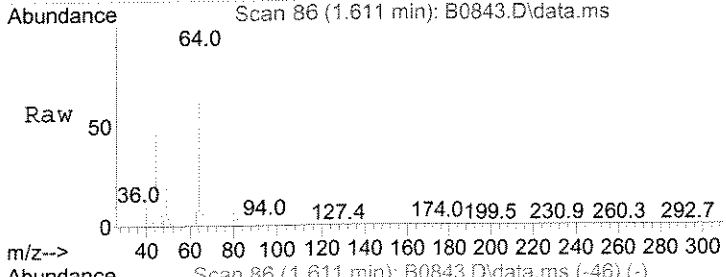
Quant Time: Jul 01 07:06:28 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





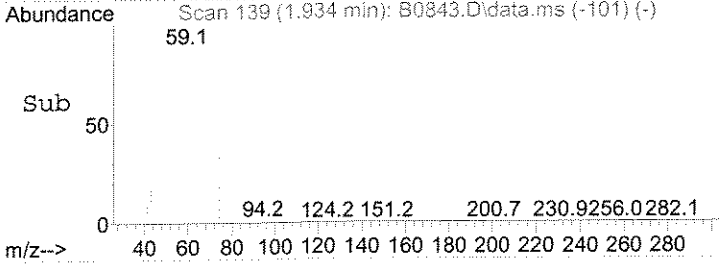
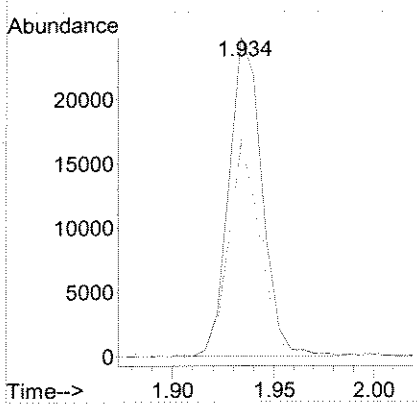
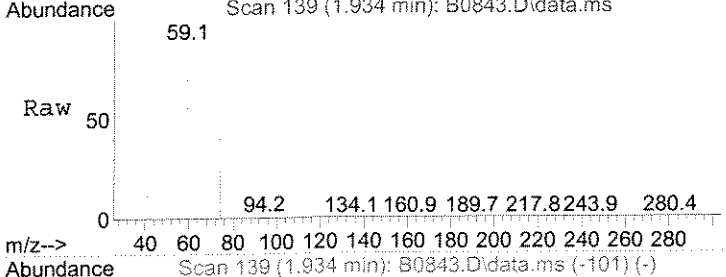
#7
 Chloroethane
 Concen: 1.08 ug/L
 RT: 1.611 min Scan# 86
 Delta R.T. -0.000 min
 Lab File: B0843.D
 Acq: 1 Jul 2008 6:52 am

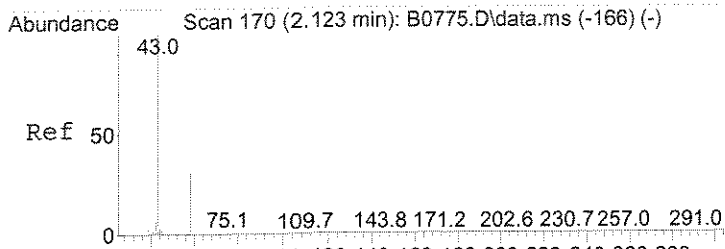
Tgt Ion	Resp	Lower	Upper
64	100		
66	32.8	2.3	62.3



#10
 Diethyl Ether
 Concen: 4.59 ug/L
 RT: 1.934 min Scan# 139
 Delta R.T. -0.000 min
 Lab File: B0843.D
 Acq: 1 Jul 2008 6:52 am

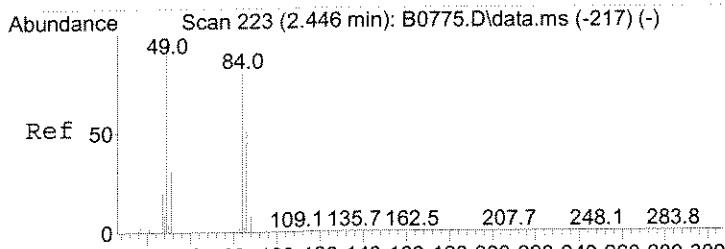
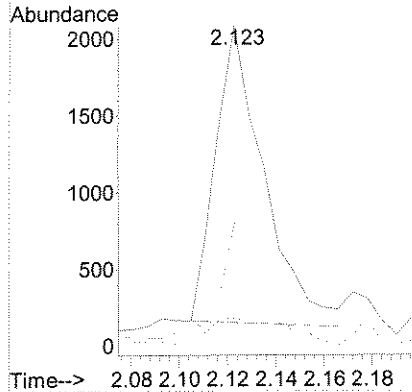
Tgt Ion	Resp	Lower	Upper
59	100		
45	66.8	31.6	94.7
74	67.9	36.7	110.1





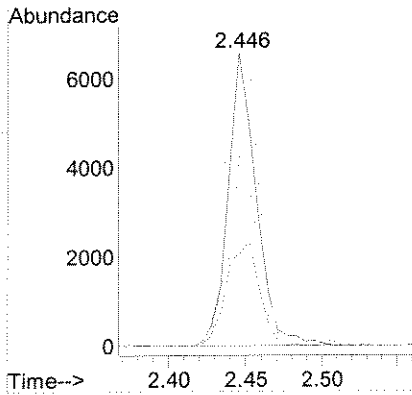
#16
 Acetone
 Concen: 1.61 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0843.D
 Acq: 1 Jul 2008 6:52 am

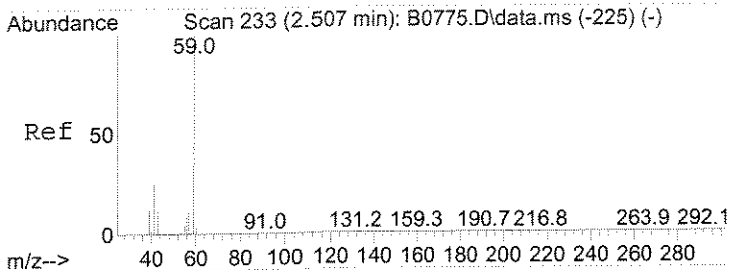
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	2694		
58	38.7	0.9	60.9	
42	8.4	0.0	37.2	



#23
 Methylene Chloride
 Concen: 0.73 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0843.D
 Acq: 1 Jul 2008 6:52 am

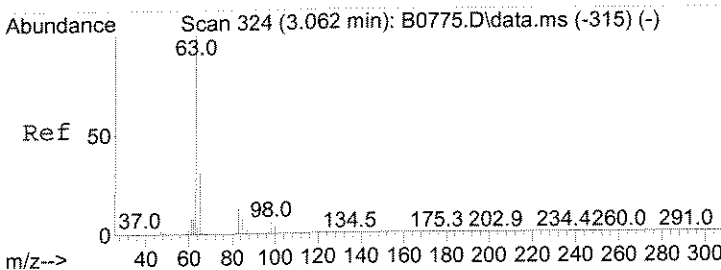
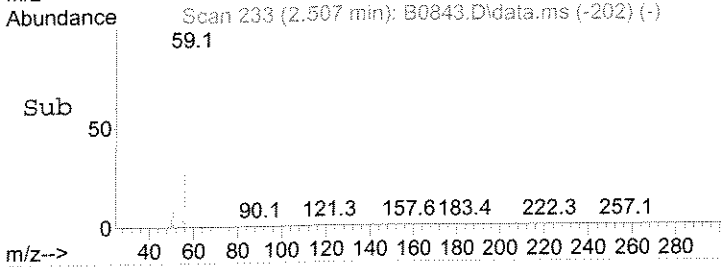
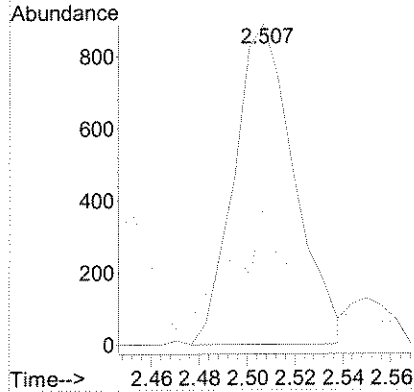
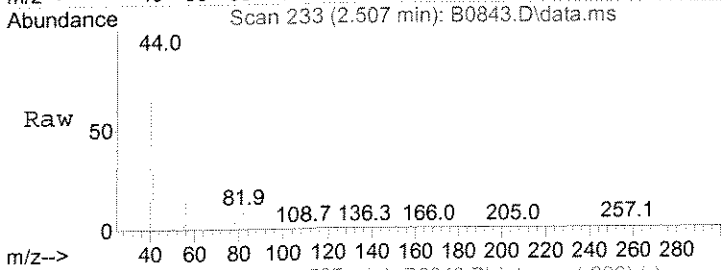
Tgt Ion	Ratio	Resp	Lower	Upper
84	100	8320		
86	64.9	50.5	75.7	
49	108.9	99.5	149.3	
51	31.6	31.1	46.7	





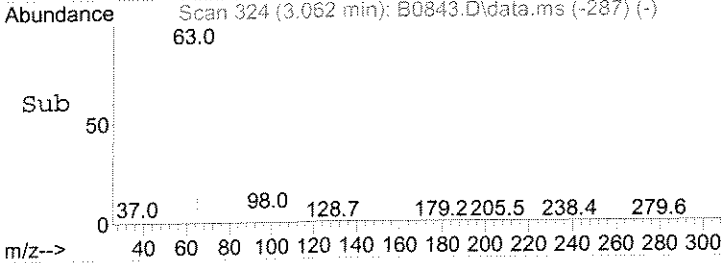
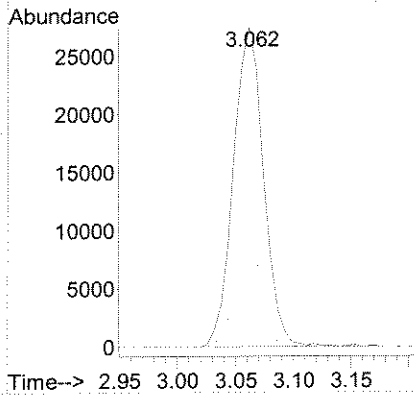
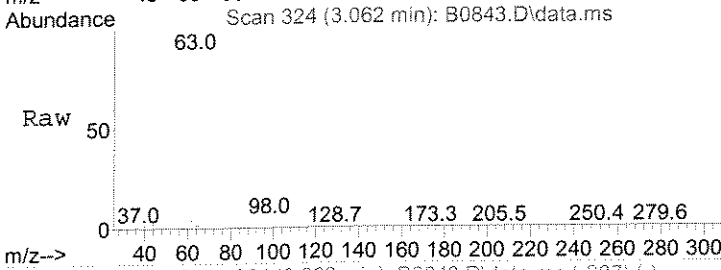
#24
TBA
Concen: 2.76 ug/L
RT: 2.507 min Scan# 233
Delta R.T. -0.000 min
Lab File: B0843.D
Acq: 1 Jul 2008 6:52 am

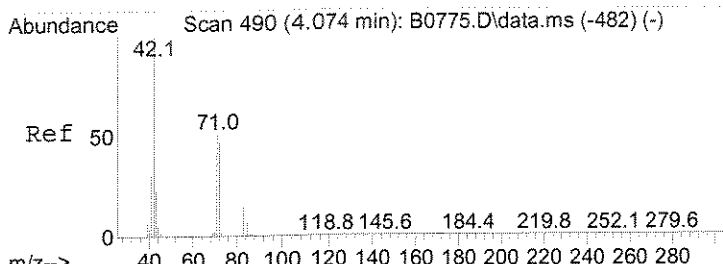
Tgt Ion: 59 Resp: 1554
Ion Ratio Lower Upper
59 100
41 44.4 14.5 43.6#



#28
1,1-Diclcethane
Concen: 2.59 ug/L
RT: 3.062 min Scan# 324
Delta R.T. -0.000 min
Lab File: B0843.D
Acq: 1 Jul 2008 6:52 am

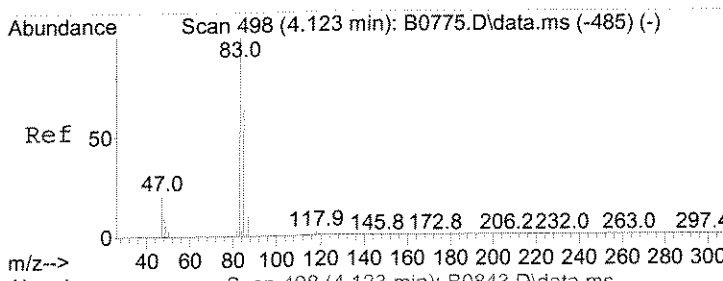
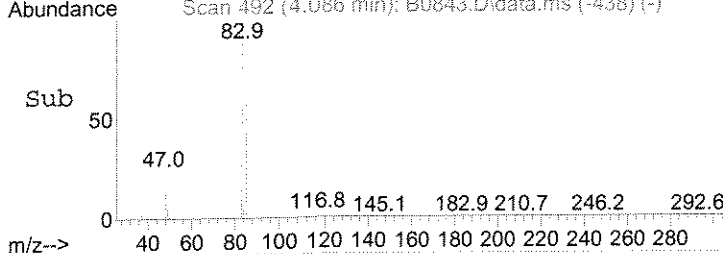
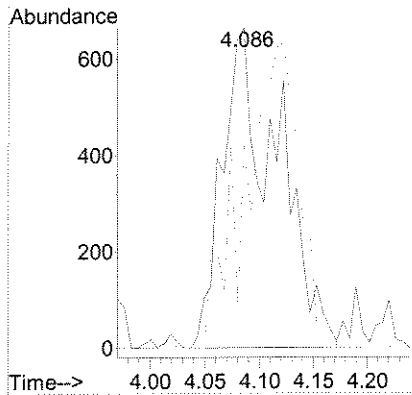
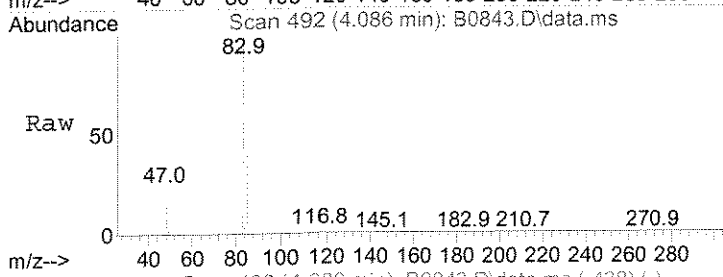
Tgt Ion: 63 Resp: 49898
Ion Ratio Lower Upper
63 100
65 30.7 24.9 37.3
83 13.5 10.5 15.7





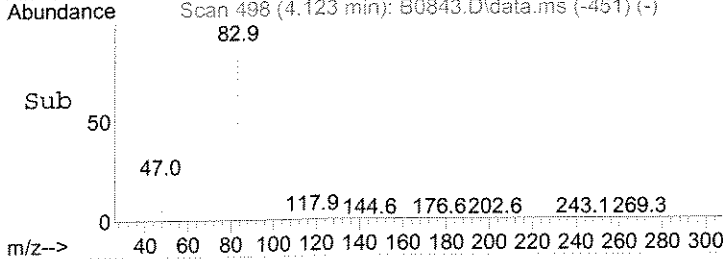
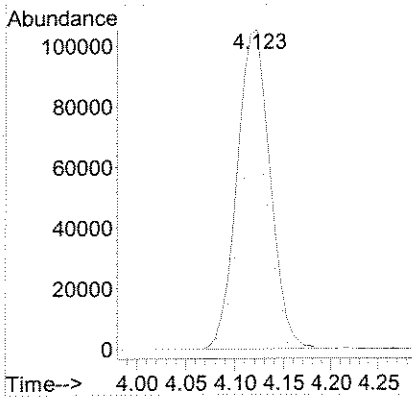
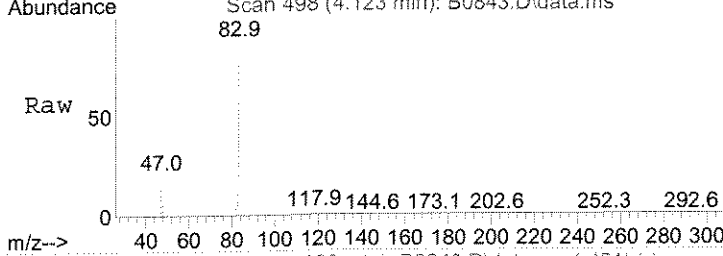
#40
 Tetrahydrofuran
 Concen: 1.46 ug/L m
 RT: 4.086 min Scan# 492
 Delta R.T. 0.012 min
 Lab File: B0843.D
 Acq: 1 Jul 2008 6:52 am

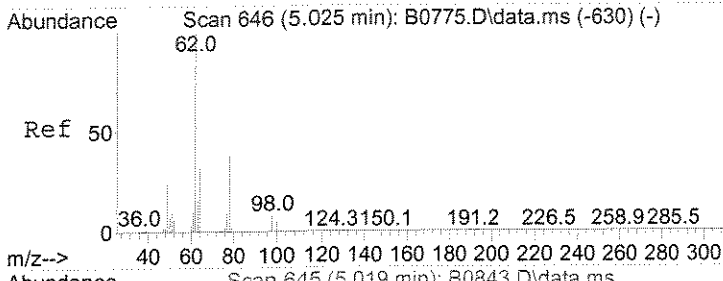
Tgt Ion	Ratio	Lower	Upper
42	100		
72	63.4	37.4	56.2#



#41
 Chloroform
 Concen: 12.70 ug/L
 RT: 4.123 min Scan# 498
 Delta R.T. -0.000 min
 Lab File: B0843.D
 Acq: 1 Jul 2008 6:52 am

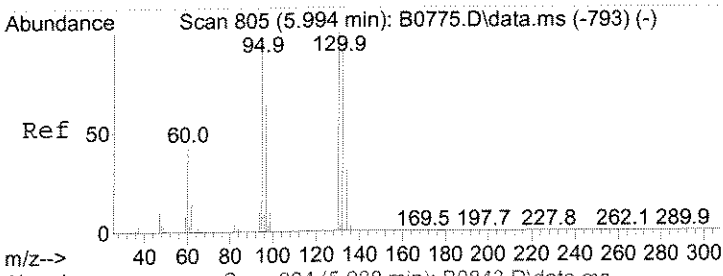
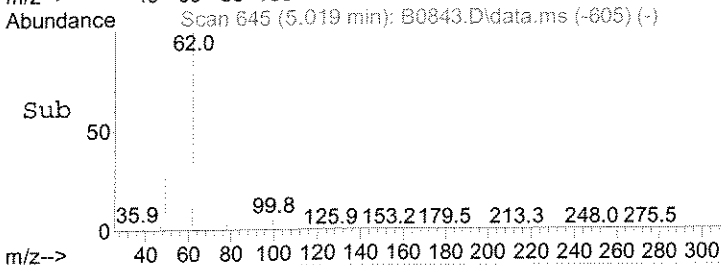
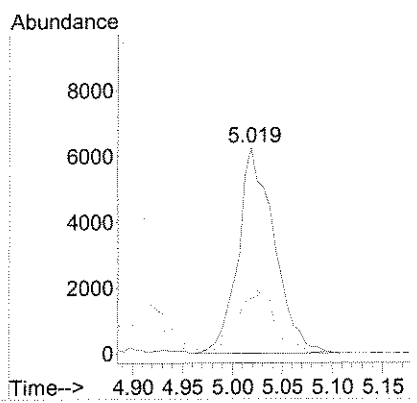
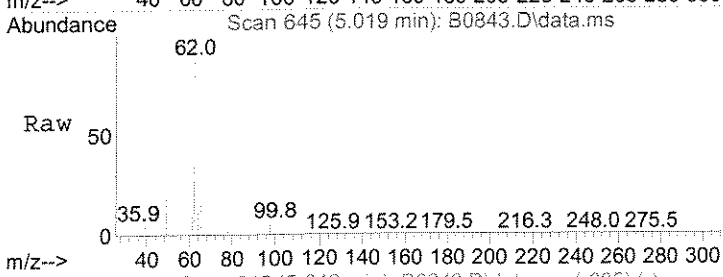
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.7	77.5
47	21.1	17.1	25.7





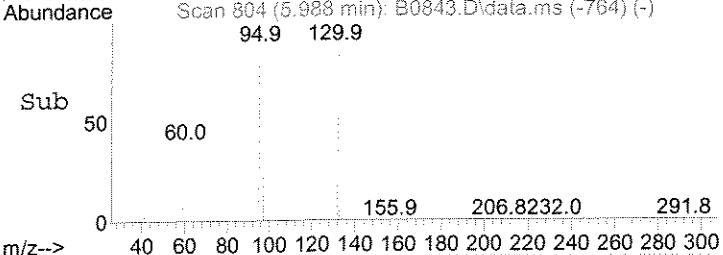
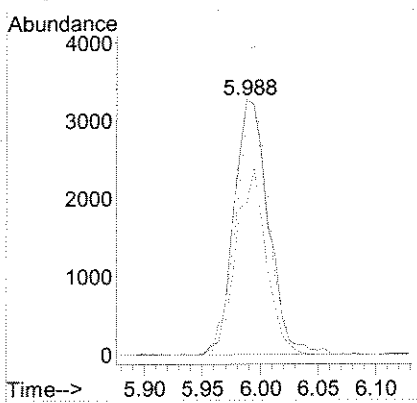
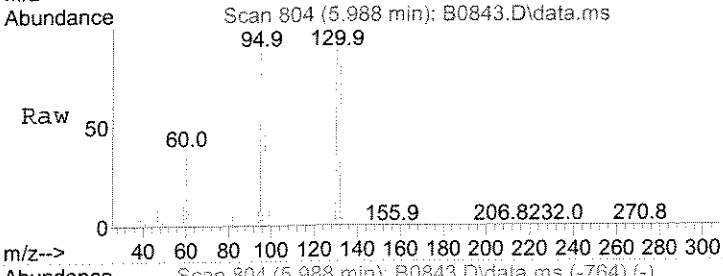
#51
 1,2-Dichloroethane
 Concen: 1.05 ug/L
 RT: 5.019 min Scan# 645
 Delta R.T. -0.006 min
 Lab File: B0843.D
 Acq: 1 Jul 2008 6:52 am

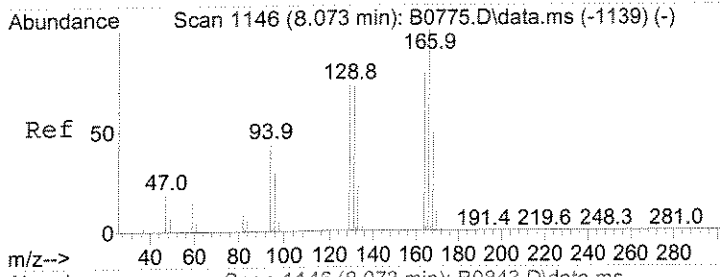
Tgt Ion	Resp	Lower	Upper
62	15861		
62	100		
64	27.0	26.5	39.7
49	28.3	20.2	30.4



#54
 Trichloroethene
 Concen: 0.57 ug/L
 RT: 5.988 min Scan# 804
 Delta R.T. -0.006 min
 Lab File: B0843.D
 Acq: 1 Jul 2008 6:52 am

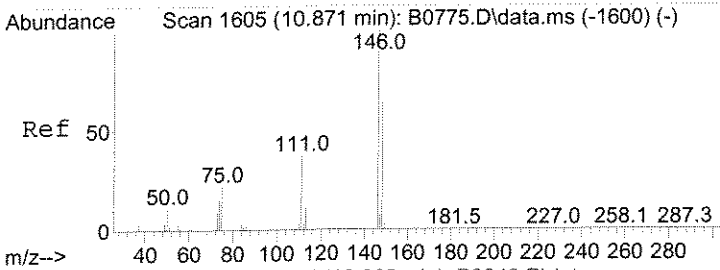
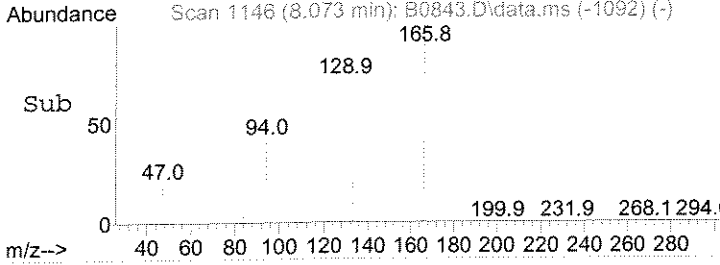
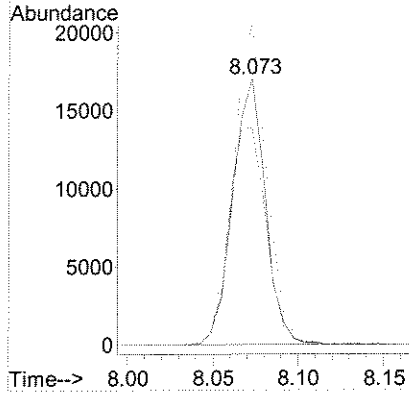
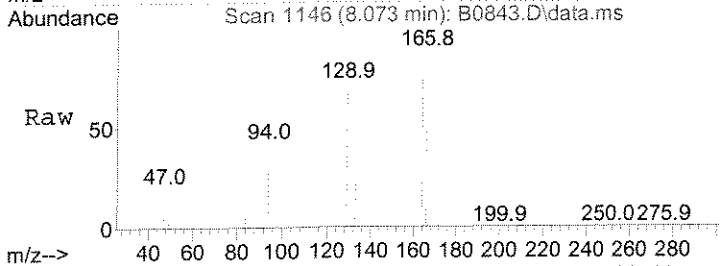
Tgt Ion	Resp	Lower	Upper
130	6793		
130	100		
132	92.8	77.0	115.4
95	111.1	78.6	118.0
97	59.4	50.9	76.3





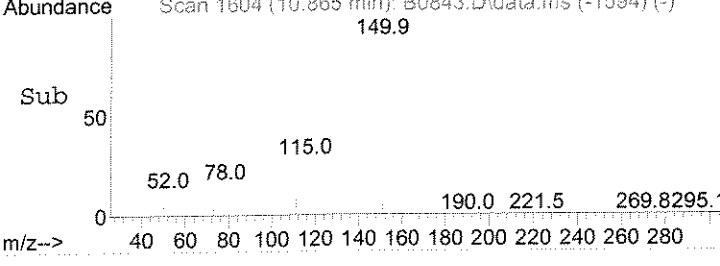
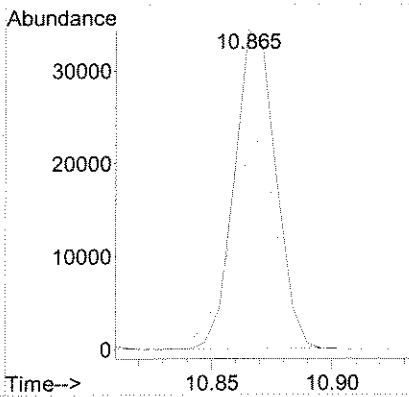
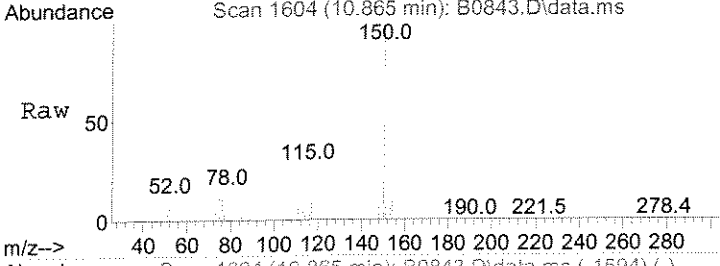
#72
 Tetrachloroethene
 Concen: 2.33 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0843.D
 Acq: 1 Jul 2008 6:52 am

Tgt Ion	Resp	Lower	Upper
164	100		
166	120.4	101.5	152.3
129	86.7	73.8	110.6
131	81.4	72.9	109.3



#101
 1,4-Dclbenz
 Concen: 1.46 ug/L
 RT: 10.865 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: B0843.D
 Acq: 1 Jul 2008 6:52 am

Tgt Ion	Resp	Lower	Upper
146	100		
148	63.9	51.2	76.8
111	44.1	30.0	45.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-23B

Date Sampled : 06/25/08 08:00 Order #: 1112488 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	2.0 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	0.45 J	UG/L
BROMOFORM	1.0	1.2	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	2.5 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	2.9 J	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	130	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	0.25 J	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	1.1 J	UG/L
1,4-DICHLOROBENZENE	2.0	1.7 J	UG/L
1,3-DICHLOROBENZENE	2.0	1.4 J	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-23B

Date Sampled : 06/25/08 08:00 Order #: 1112488 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.23 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	0.44 J	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Sample : 1112488 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0844.D Vial: 32
 Acq On : 1 Jul 2008 7:21 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 01 07:36:12 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

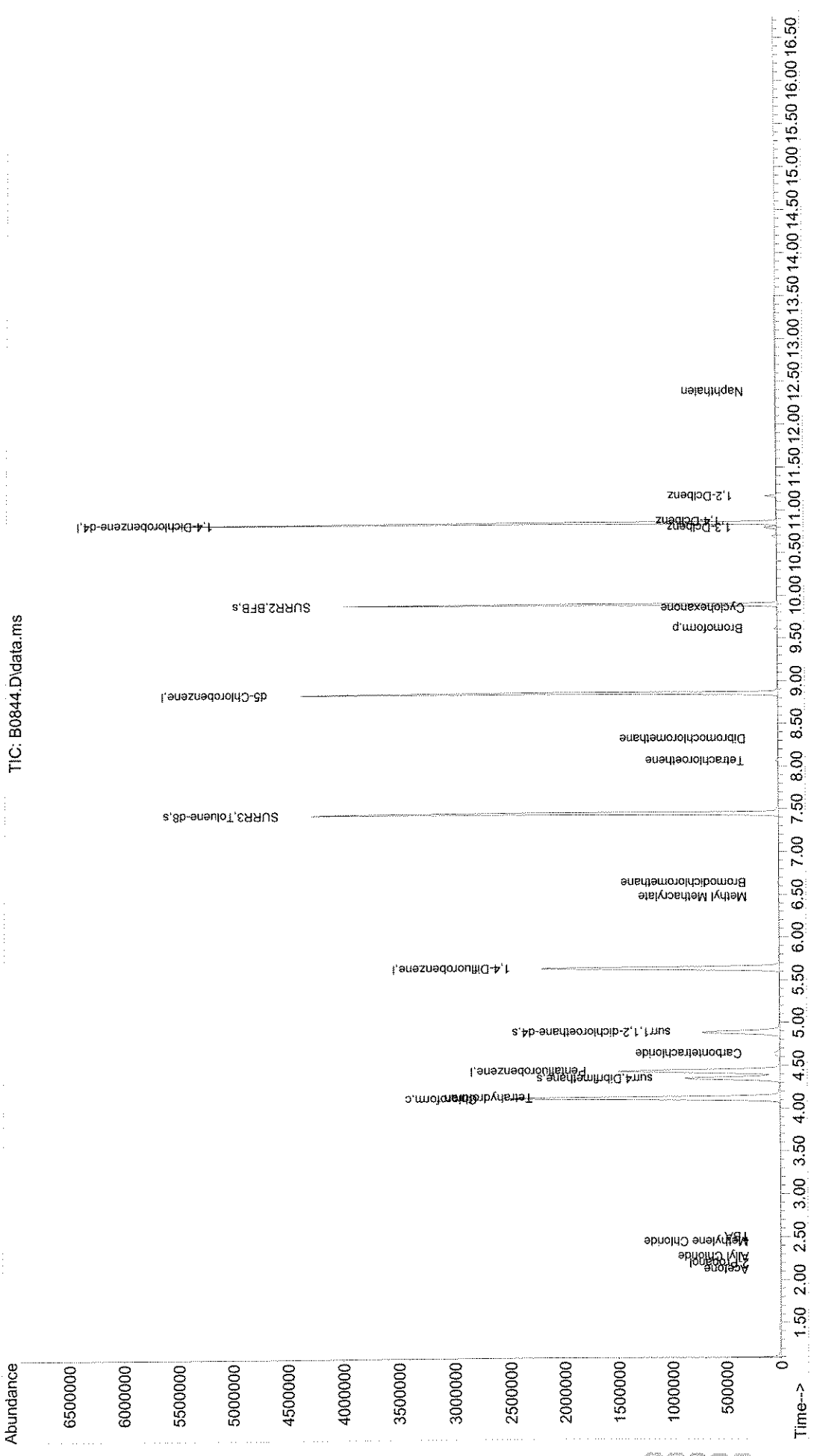
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1337078	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2155629	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.854	117	1978096	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1071020	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	691070	48.73	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	97.46%		
49) surr1,1,2-dichloroetha...	4.891	65	726573	53.62	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.24%		
65) SURR3,Toluene-d8	7.445	98	2545733	54.25	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.50%		
70) SURR2,BFB	9.896	95	1022049	52.89	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.78%		
Target Compounds							
							Qvalue
16) Acetone	2.123	43	3344	2.03	ug/L	95	JB
17) 2-Propanol	2.196	45	417	1.19	ug/L #	16	
21) Allyl Chloride	2.276	76	2538	0.50	ug/L #	1	
23) Methylene Chloride	2.446	84	2592	0.23	ug/L #	88	
24) TBA	2.507	59	1413	2.54	ug/L #	65	J
40) Tetrahydrofuran	4.129	42	5339	3.36	ug/L #	1	
41) Chloroform	4.117	83	2473832	127.52	ug/L	99	
47) Carbontetrachloride	4.641	121	15692	2.94	ug/L	99	J
59) Methyl Methacrylate	6.476	69	265	1.50	ug/L #	64	
60) Bromodichloromethane	6.641	83	7002	0.45	ug/L	97	
72) Tetrachloroethene	8.067	164	4371	0.44	ug/L	88	J
75) Dibromochloromethane	8.323	129	2873	0.25	ug/L	87	
83) Bromoform	9.616	173	7986	1.15	ug/L	98	
85) Cyclohexanone	9.853	55	1027	1.14	ug/L #	24	
100) 1,3-Dclbenz	10.798	146	37208	1.38	ug/L	97	
101) 1,4-Dclbenz	10.871	146	47604	1.71	ug/L	96	J
104) 1,2-Dclbenz	11.164	146	28243	1.11	ug/L	96	
109) Naphthalen	12.383	128	749	0.55	ug/L #	93	JB FW 7/1/08 CLR

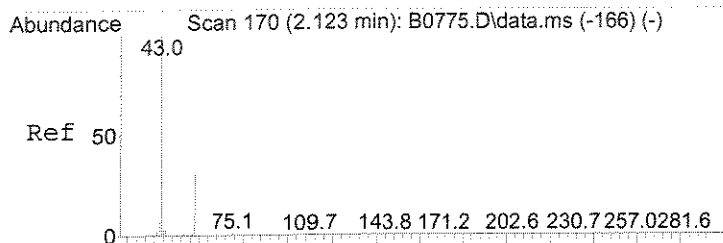
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FW
7/3/08

Sample : 1112488 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0844.D
 Vial: 32
 Acq On : 1 Jul 2008 7:21 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

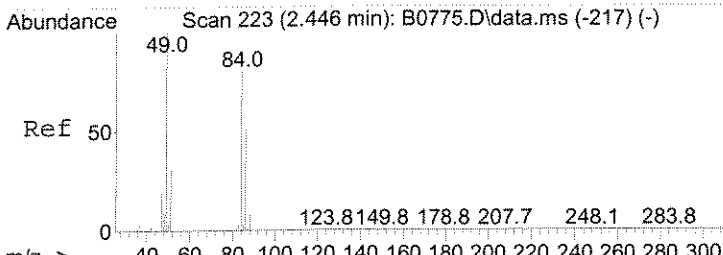
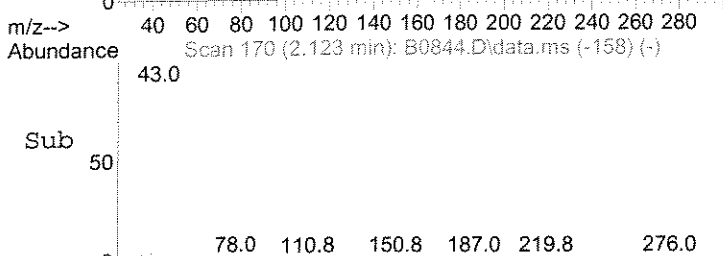
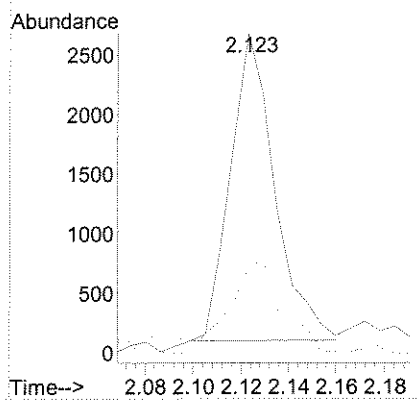
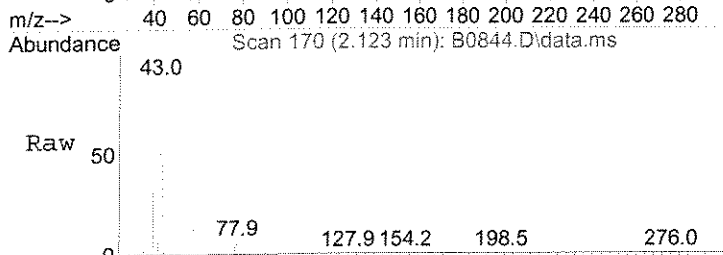
Quant Time: Jul 01 07:36:12 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





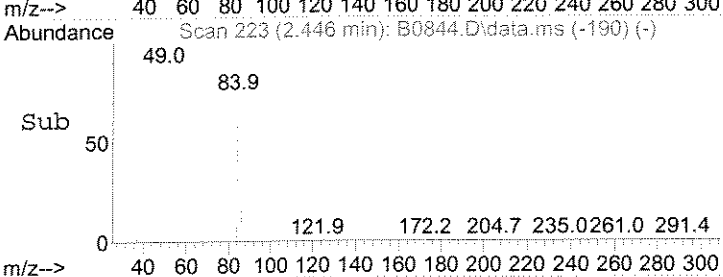
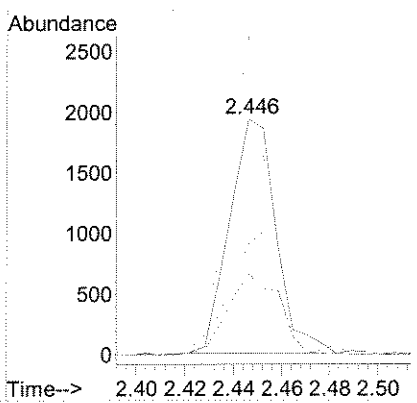
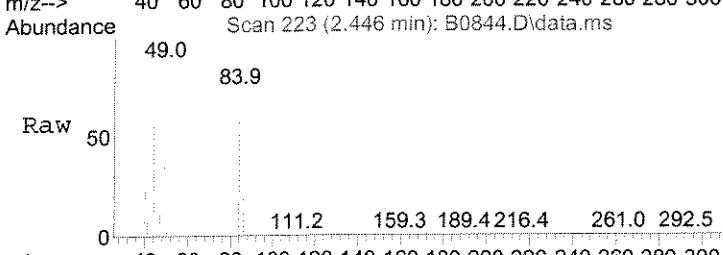
#16
 Acetone
 Concen: 2.03 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0844.D
 Acq: 1 Jul 2008 7:21 am

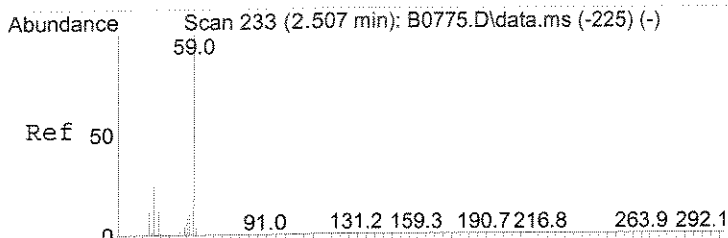
Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.3	0.9	60.9
42	7.1	0.0	37.2



#23
 Methylene Chloride
 Concen: 0.23 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0844.D
 Acq: 1 Jul 2008 7:21 am

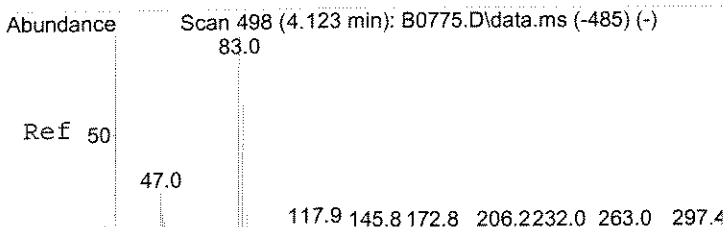
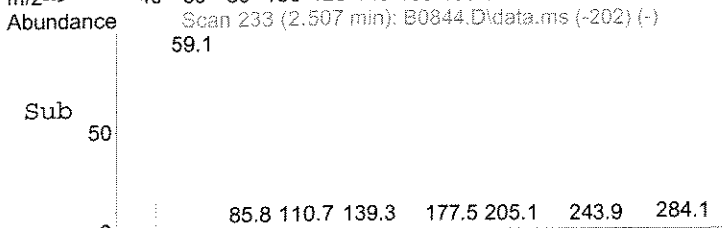
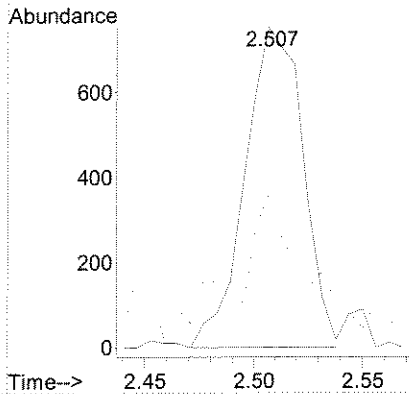
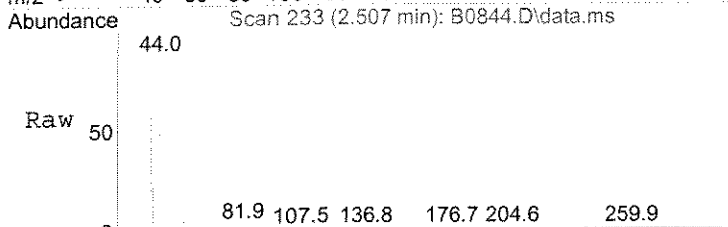
Tgt Ion	Ratio	Lower	Upper
84	100		
86	46.9	50.5	75.7#
49	135.3	99.5	149.3
51	34.4	31.1	46.7





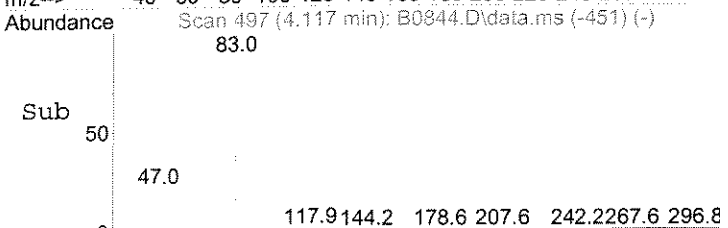
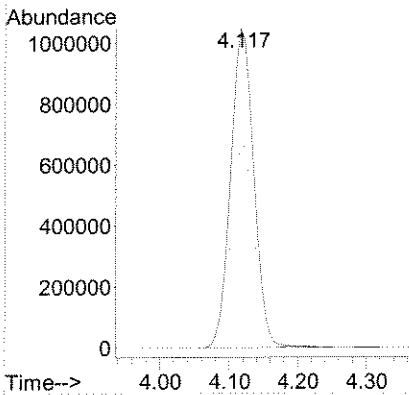
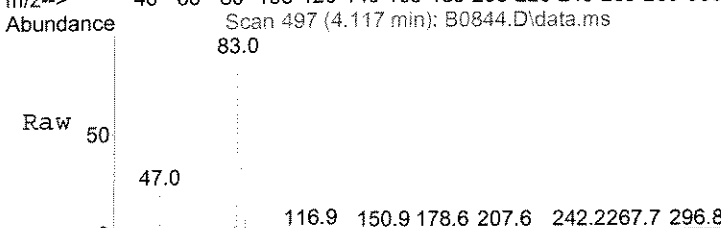
#24
TBA
Concen: 2.54 ug/L
RT: 2.507 min Scan# 233
Delta R.T. -0.000 min
Lab File: B0844.D
Acq: 1 Jul 2008 7:21 am

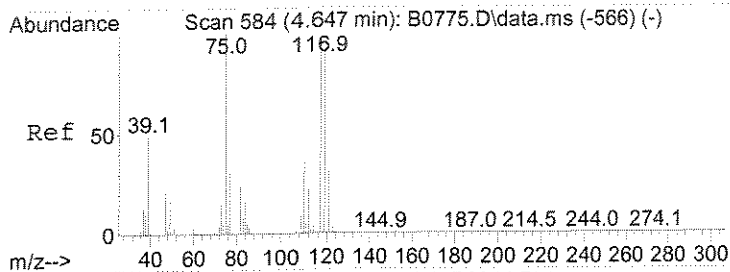
Tgt Ion	Resp	Lower	Upper
59	100		
41	47.9	14.5	43.6#



#41
Chloroform
Concen: 127.52 ug/L
RT: 4.117 min Scan# 497
Delta R.T. -0.006 min
Lab File: B0844.D
Acq: 1 Jul 2008 7:21 am

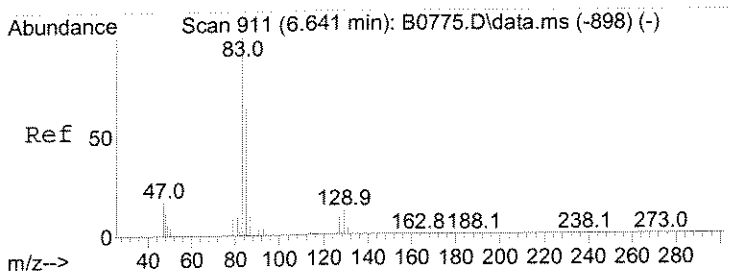
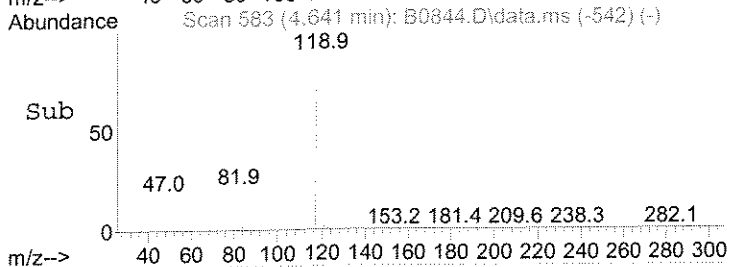
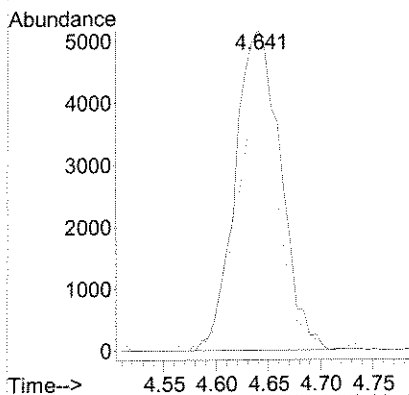
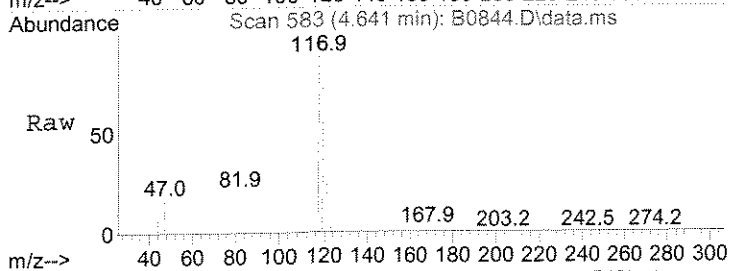
Tgt Ion	Resp	Lower	Upper
83	100		
85	64.3	51.7	77.5
47	22.2	17.1	25.7





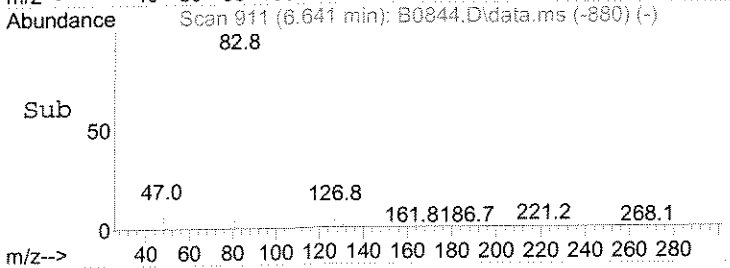
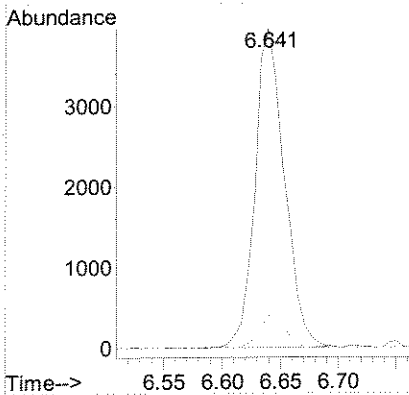
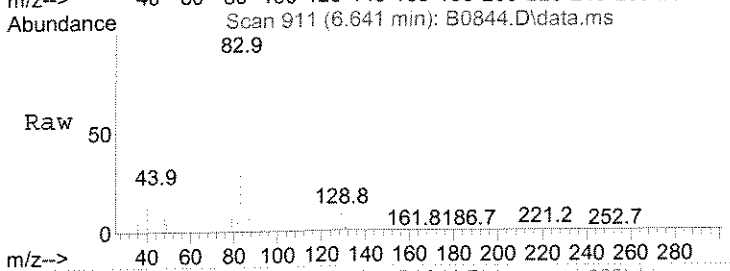
#47
 Carbontetrachloride
 Concen: 2.94 ug/L
 RT: 4.641 min Scan# 583
 Delta R.T. -0.000 min
 Lab File: B0844.D
 Acq: 1 Jul 2008 7:21 am

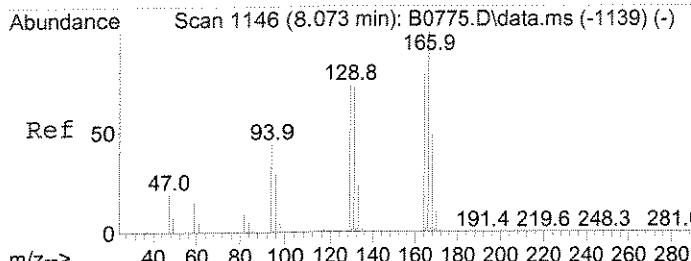
Tgt Ion	Ratio	Lower	Upper
121	100		
82	76.4	62.0	93.0



#60
 Bromodichloromethane
 Concen: 0.45 ug/L
 RT: 6.641 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: B0844.D
 Acq: 1 Jul 2008 7:21 am

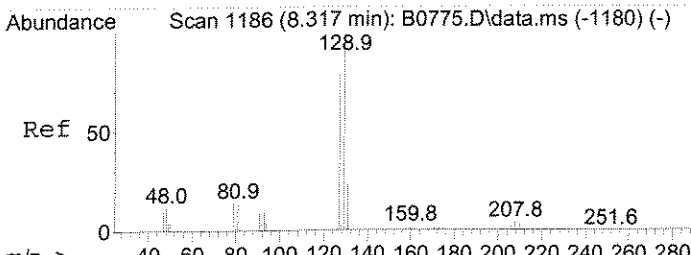
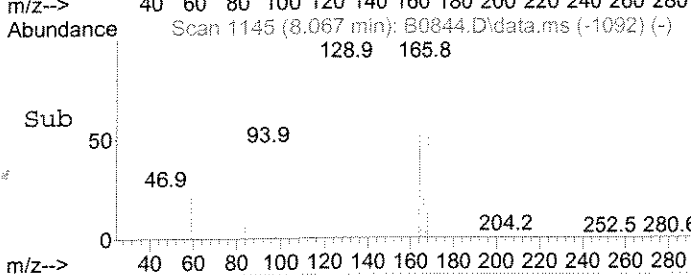
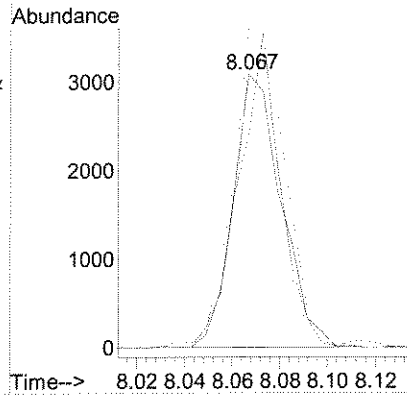
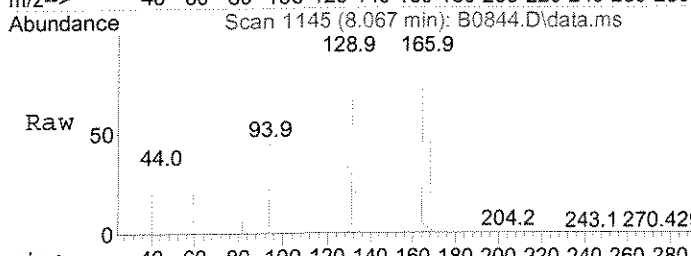
Tgt Ion	Ratio	Lower	Upper
83	100		
129	11.0	9.5	14.3
127	10.4	7.2	10.8





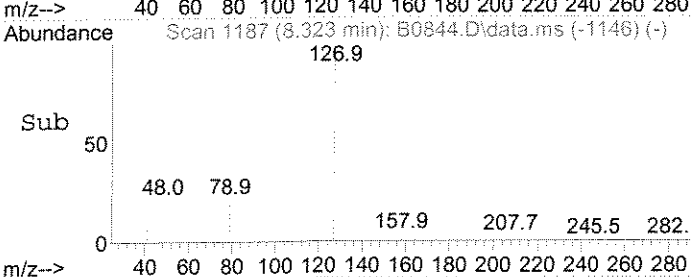
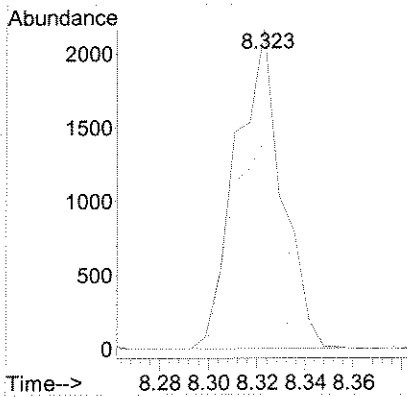
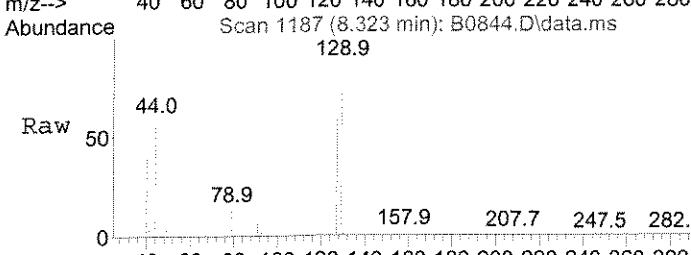
#72
 Tetrachloroethene
 Concen: 0.44 ug/L
 RT: 8.067 min Scan# 1145
 Delta R.T. -0.006 min
 Lab File: B0844.D
 Acq: 1 Jul 2008 7:21 am

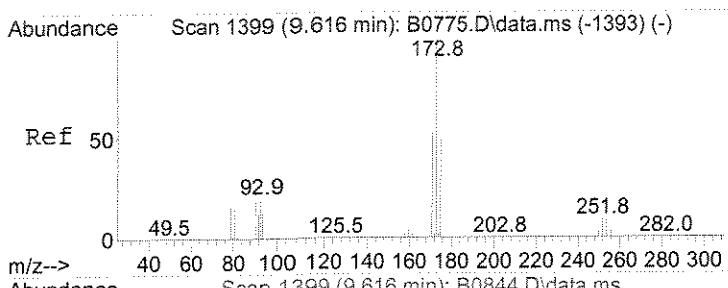
Tgt Ion	Ratio	Lower	Upper
164	100		
166	117.2	101.5	152.3
129	106.4	73.8	110.6
131	78.2	72.9	109.3



#75
 Dibromochloromethane
 Concen: 0.25 ug/L
 RT: 8.323 min Scan# 1187
 Delta R.T. -0.000 min
 Lab File: B0844.D
 Acq: 1 Jul 2008 7:21 am

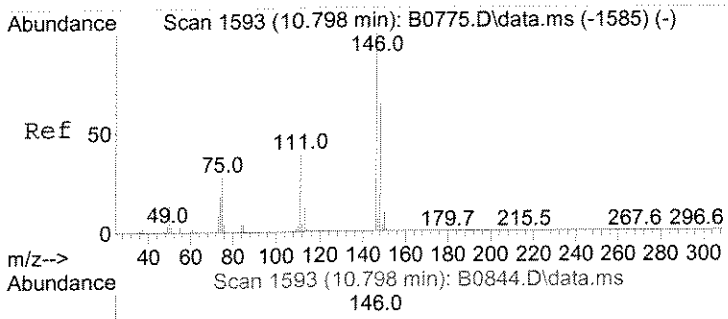
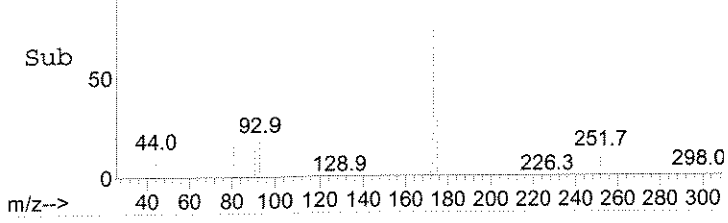
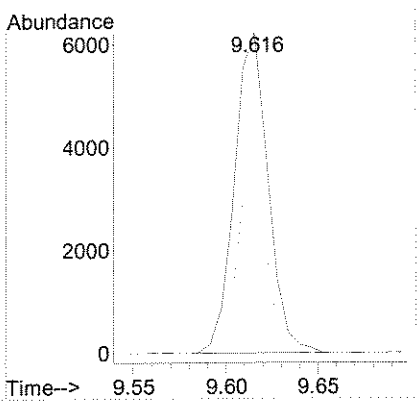
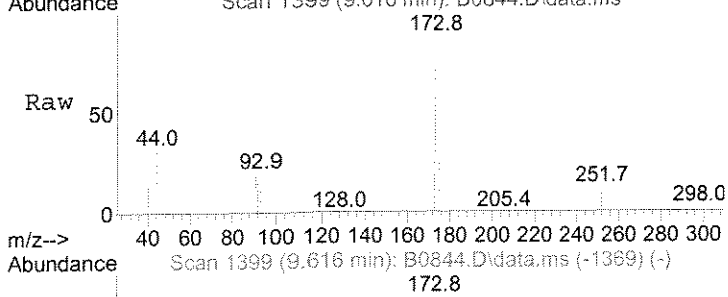
Tgt Ion	Ratio	Lower	Upper
129	100		
127	65.5	63.2	94.8
131	21.5	18.8	28.2





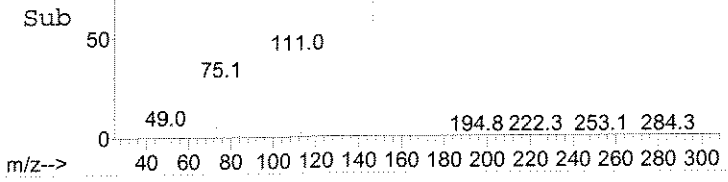
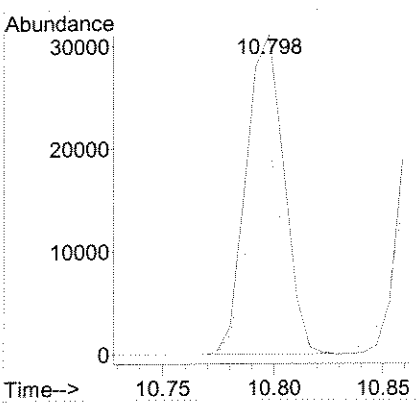
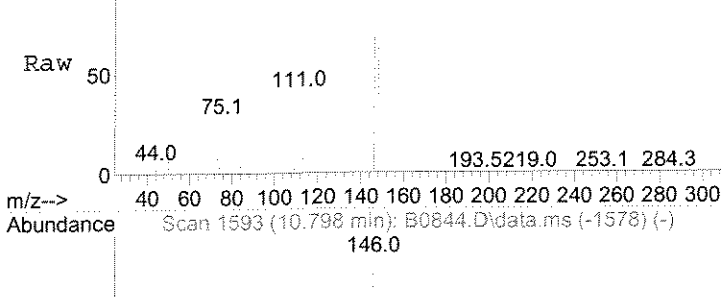
#83
 Bromoform
 Concen: 1.15 ug/L
 RT: 9.616 min Scan# 1399
 Delta R.T. -0.000 min
 Lab File: B0844.D
 Acq: 1 Jul 2008 7:21 am

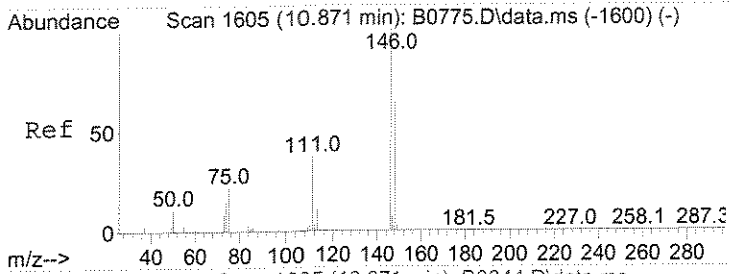
Tgt Ion	Ratio	Resp	Lower	Upper
173	100	7986		
175	48.0		39.4	59.0



#100
 1,3-Diclbz
 Concen: 1.38 ug/L
 RT: 10.798 min Scan# 1593
 Delta R.T. -0.000 min
 Lab File: B0844.D
 Acq: 1 Jul 2008 7:21 am

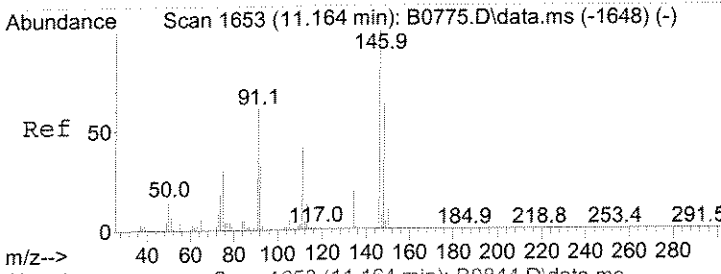
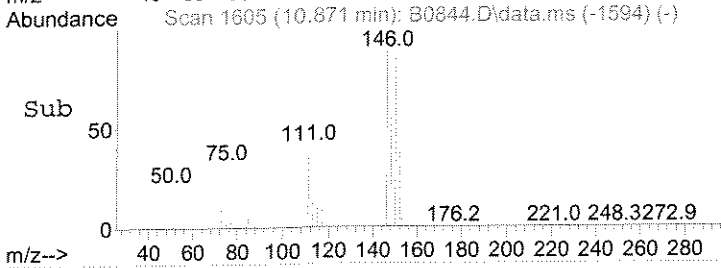
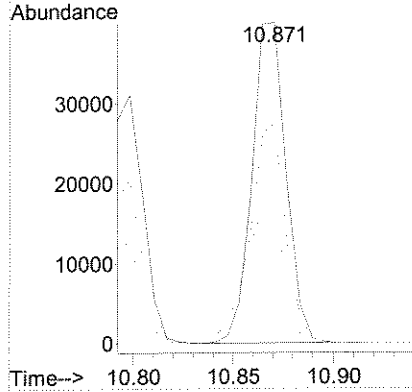
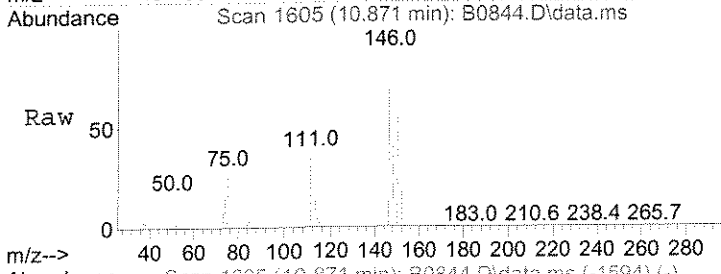
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	37208		
148	66.0		51.2	76.8
111	41.5		31.4	47.0





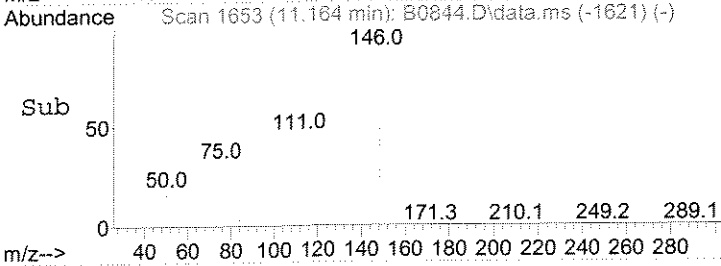
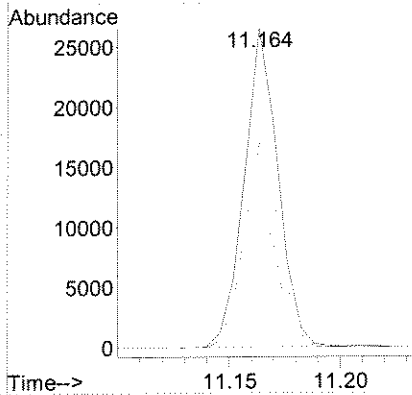
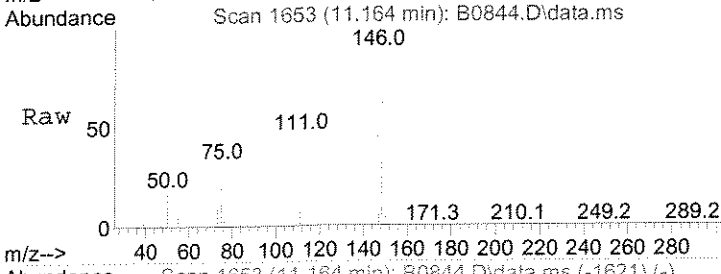
#101
 1,4-Dclbenz
 Concen: 1.71 ug/L
 RT: 10.871 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0844.D
 Acq: 1 Jul 2008 7:21 am

Tgt Ion	Ratio	Lower	Upper
146	100		
148	68.7	51.2	76.8
111	38.3	30.0	45.0



#104
 1,2-Dclbenz
 Concen: 1.11 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. -0.000 min
 Lab File: B0844.D
 Acq: 1 Jul 2008 7:21 am

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.3	75.5
111	45.6	33.0	49.4



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-97B

Date Sampled : 06/25/08 09:30 Order #: 1112489 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.1 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	3.5 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	0.35 J	UG/L
CHLOROFORM	1.0	3.8	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	0.20 J	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	0.92 J	UG/L
1,2-DICHLOROETHANE	1.0	0.45 J	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-97B

Date Sampled : 06/25/08 09:30 Order #: 1112489 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.35 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.2	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	0.22 J	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

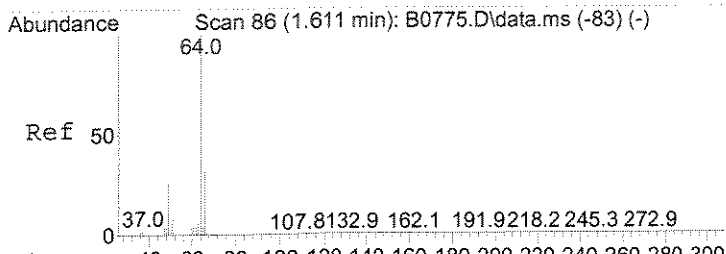
Sample : 1112489 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0845.D Vial: 33
 Acq On : 1 Jul 2008 7:51 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 01 08:05:58 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1337307	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2160696	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1974874	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1056209	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	690742	48.54	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	97.08%		
49) surr1,1,2-dichloroetha...	4.891	65	742394	54.66	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.32%		
65) SURR3,Toluene-d8	7.451	98	2536737	53.93	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.86%		
70) SURR2,BFB	9.896	95	1032595	53.31	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.62%		
Target Compounds							
7) Chloroethane	1.611	64	1993	0.35	ug/L	92	J
10) Diethyl Ether	1.934	59	15472	2.56	ug/L	96	NT
16) Acetone	2.123	43	1815	1.10	ug/L	87	JB
17) 2-Propanol	2.202	45	541	1.54	ug/L #	87	
21) Allyl Chloride	2.276	76	3980	0.79	ug/L #	1	
23) Methylene Chloride	2.446	84	3968	0.35	ug/L	94	
24) TBA	2.507	59	1958	3.52	ug/L	76	J
28) 1,1-Dicethane	3.062	63	17585	0.92	ug/L #	93	
40) Tetrahydrofuran	4.098	42	1288	0.81	ug/L	86	NT
41) Chloroform	4.123	83	73621	3.79	ug/L	99	
51) 1,2-Dichloroethane	5.025	62	6733	0.45	ug/L #	84	J
54) Trichloroethene	5.994	130	2665	0.22	ug/L #	84	
72) Tetrachloroethene	8.067	164	11771	1.20	ug/L	91	
85) Cyclohexanone	9.847	55	1198	1.34	ug/L #	23	
101) 1,4-Dclbenz	10.872	146	5577	0.20	ug/L #	89	J
109) Naphthalen	12.383	128	1003	0.56	ug/L #	80	JB CLR

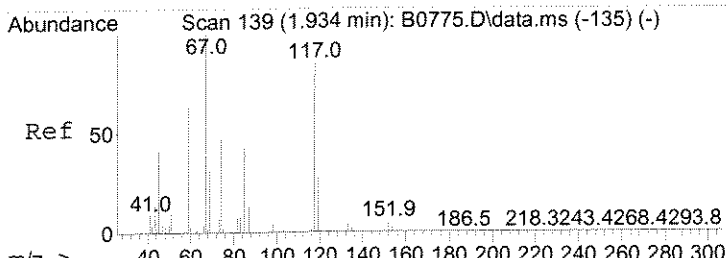
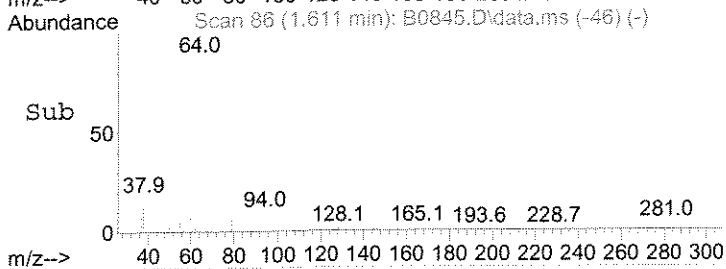
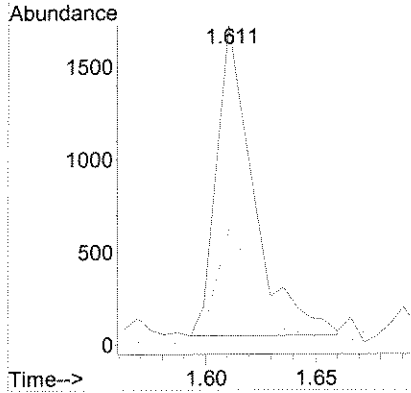
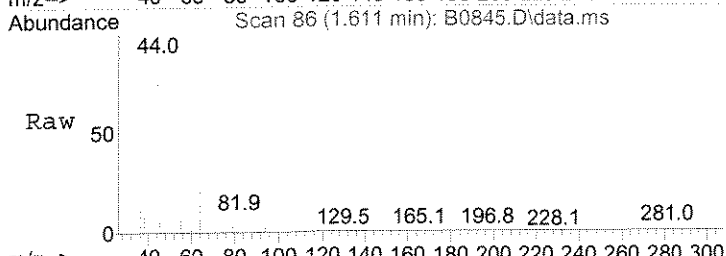
(#) = qualifier out of range (m) = manual integration (+) = signals summed

fix 7/1/08
 FW
 7/3/08



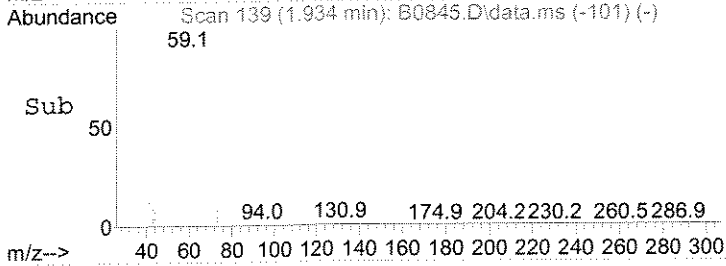
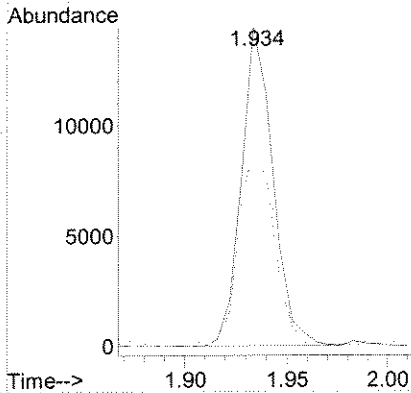
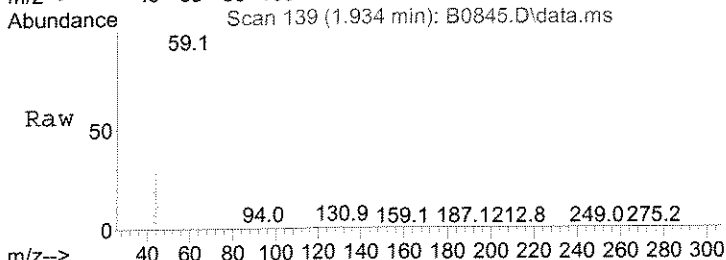
#7
 Chloroethane
 Concen: 0.35 ug/L
 RT: 1.611 min Scan# 86
 Delta R.T. -0.000 min
 Lab File: B0845.D
 Acq: 1 Jul 2008 7:51 am

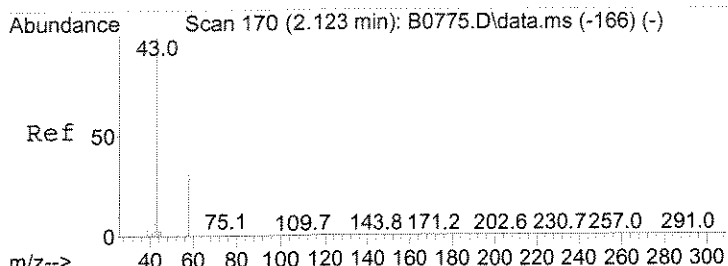
Tgt Ion	Resp	Lower	Upper
64	1993		
66	36.9	2.3	62.3



#10
 Diethyl Ether
 Concen: 2.56 ug/L
 RT: 1.934 min Scan# 139
 Delta R.T. -0.000 min
 Lab File: B0845.D
 Acq: 1 Jul 2008 7:51 am

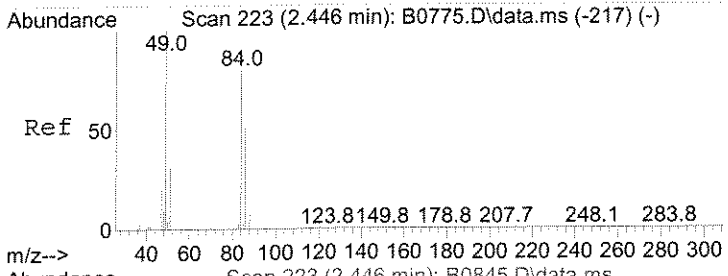
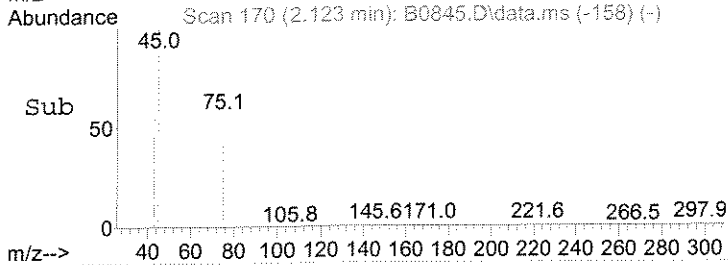
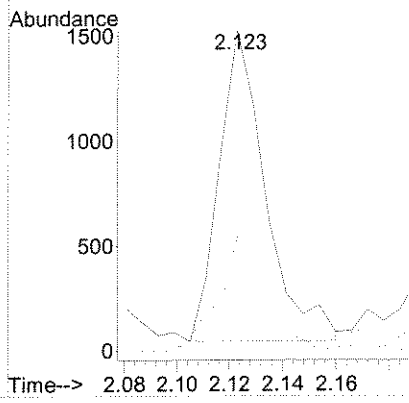
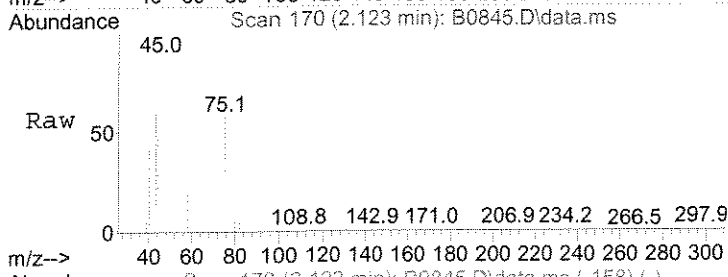
Tgt Ion	Resp	Lower	Upper
59	15472		
45	60.7	31.6	94.7
74	68.8	36.7	110.1





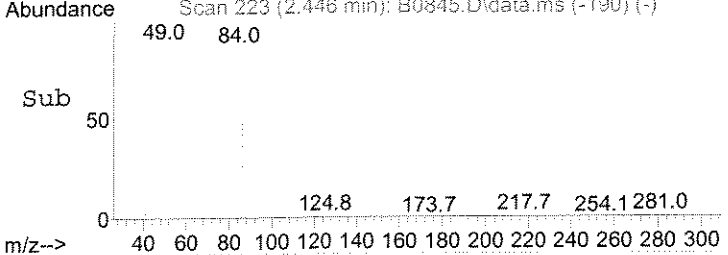
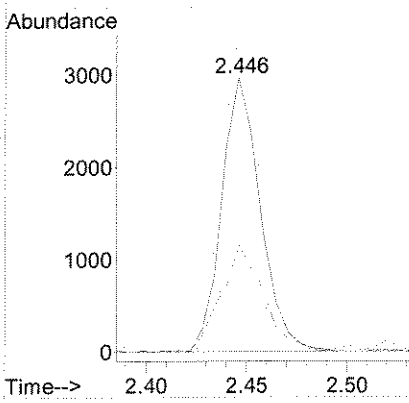
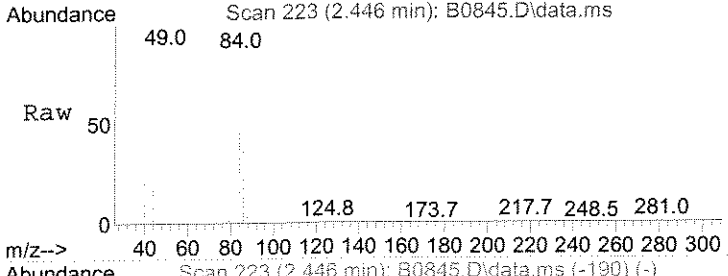
#16
 Acetone
 Concen: 1.10 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0845.D
 Acq: 1 Jul 2008 7:51 am

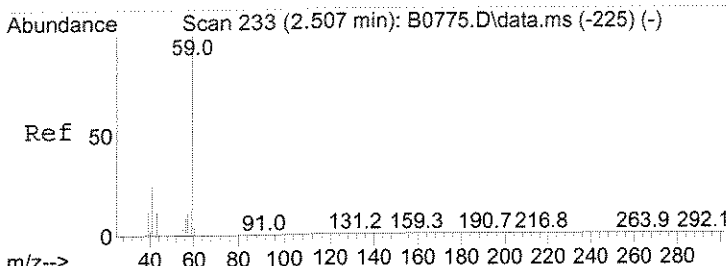
Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.3	0.9	60.9
42	15.6	0.0	37.2



#23
 Methylene Chloride
 Concen: 0.35 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0845.D
 Acq: 1 Jul 2008 7:51 am

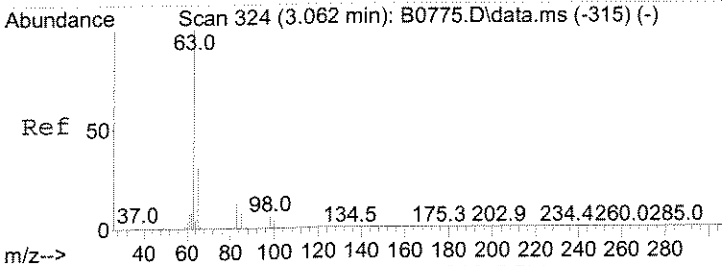
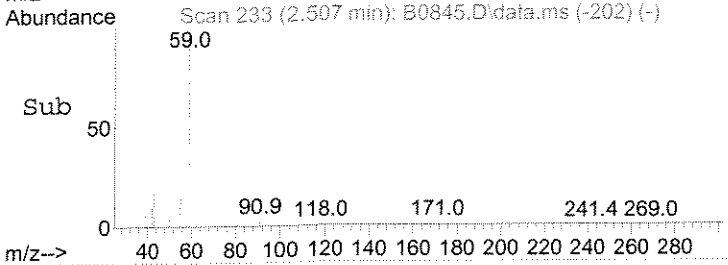
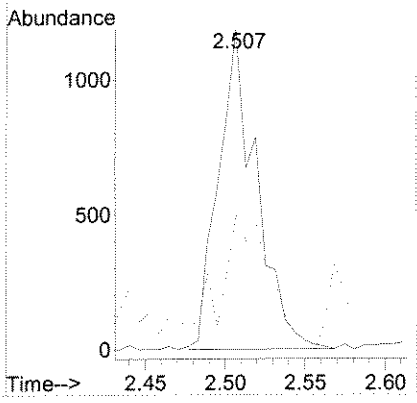
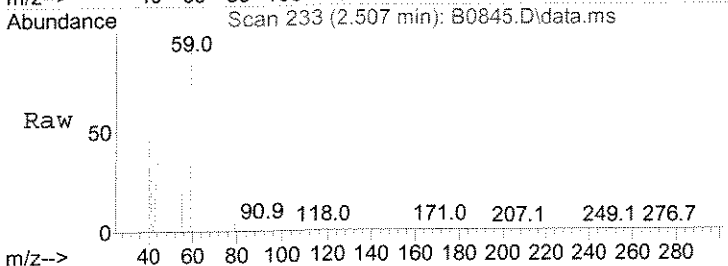
Tgt Ion	Ratio	Lower	Upper
84	100		
86	57.8	50.5	75.7
49	116.6	99.5	149.3
51	38.8	31.1	46.7





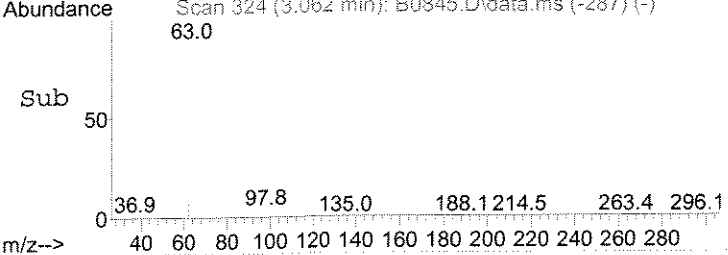
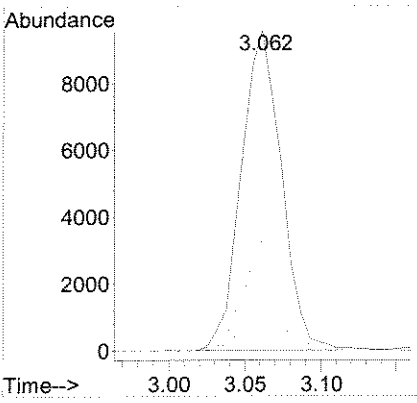
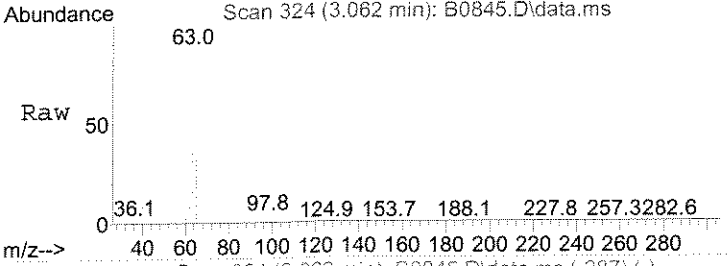
#24
TBA
Concen: 3.52 ug/L
RT: 2.507 min Scan# 233
Delta R.T. -0.000 min
Lab File: B0845.D
Acq: 1 Jul 2008 7:51 am

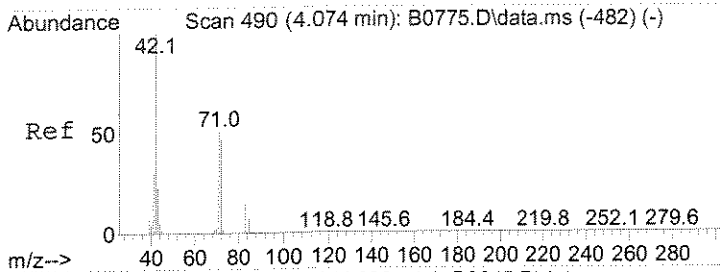
Tgt Ion	Resp	Lower	Upper
59	1958		
41	42.0	14.5	43.6



#28
1,1-Dicethane
Concen: 0.92 ug/L
RT: 3.062 min Scan# 324
Delta R.T. -0.000 min
Lab File: B0845.D
Acq: 1 Jul 2008 7:51 am

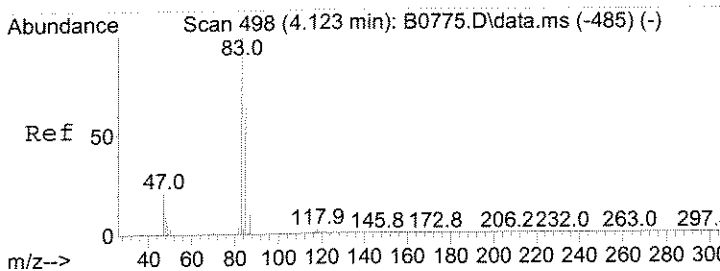
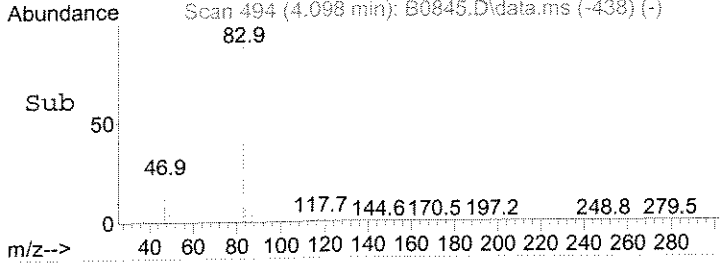
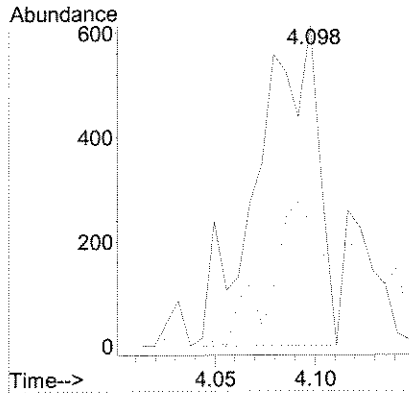
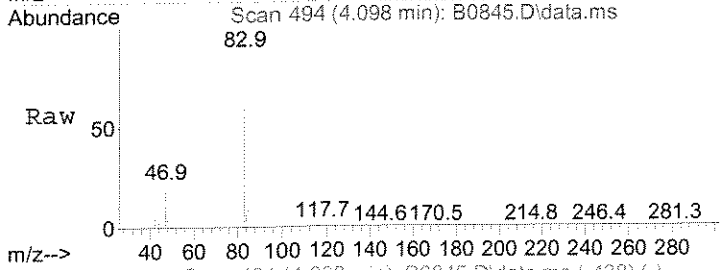
Tgt Ion	Resp	Lower	Upper
63	17585		
65	35.0	24.9	37.3
83	16.3	10.5	15.7#





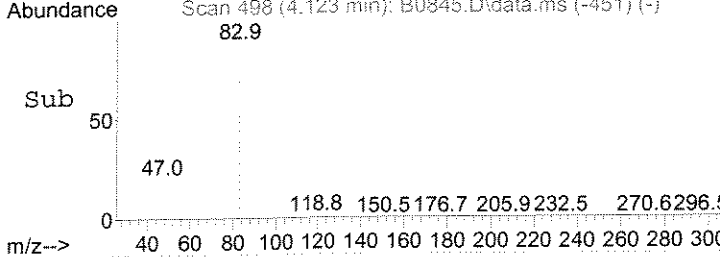
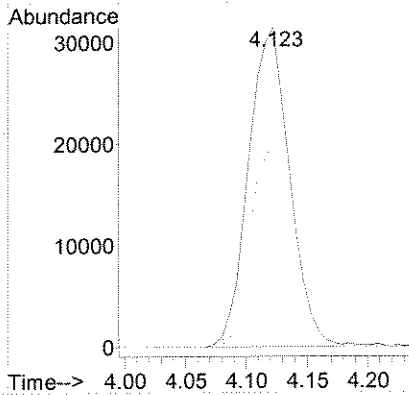
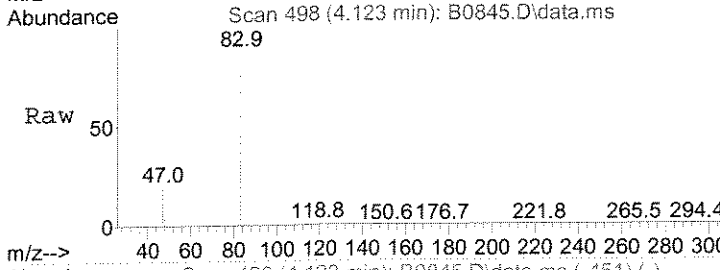
#40
 Tetrahydrofuran
 Concen: 0.81 ug/L
 RT: 4.098 min Scan# 494
 Delta R.T. 0.024 min
 Lab File: B0845.D
 Acq: 1 Jul 2008 7:51 am

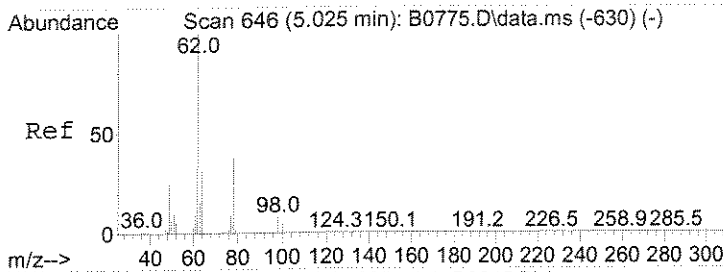
Tgt Ion	Resp	Lower	Upper
42	1288		
42	100		
72	37.5	37.4	56.2



#41
 Chloroform
 Concen: 3.79 ug/L
 RT: 4.123 min Scan# 498
 Delta R.T. -0.000 min
 Lab File: B0845.D
 Acq: 1 Jul 2008 7:51 am

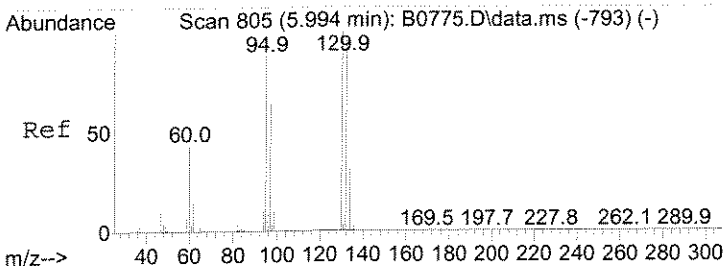
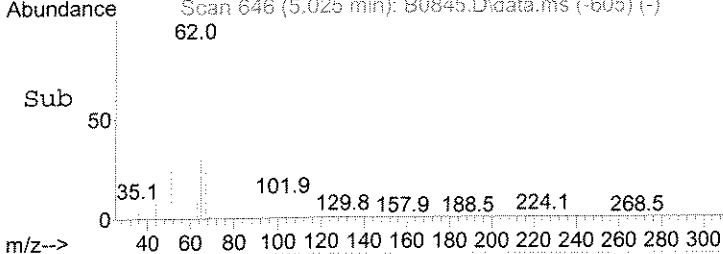
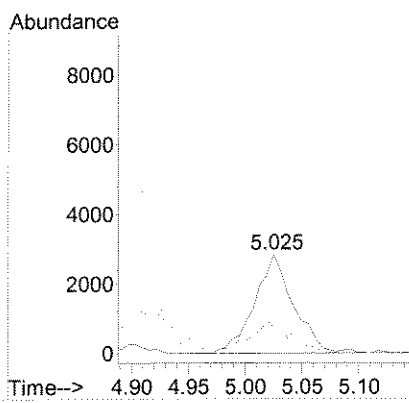
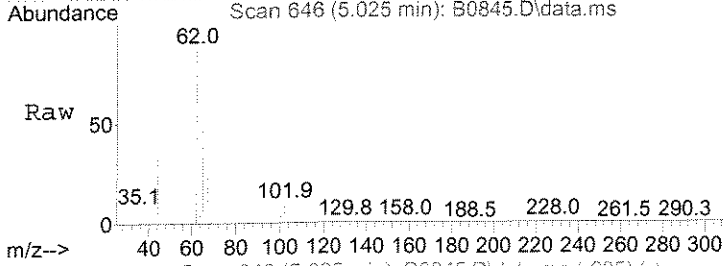
Tgt Ion	Resp	Lower	Upper
83	73621		
83	100		
85	64.5	51.7	77.5
47	20.4	17.1	25.7





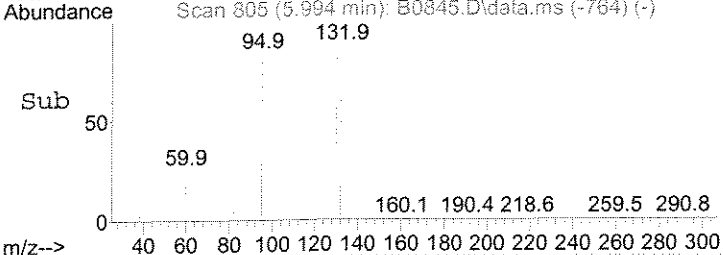
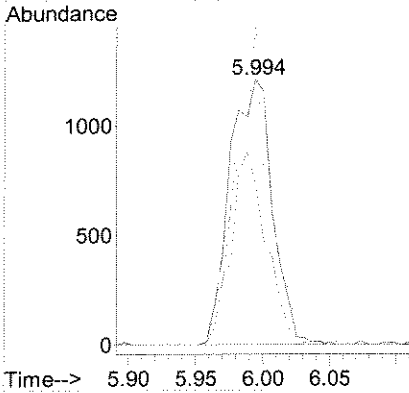
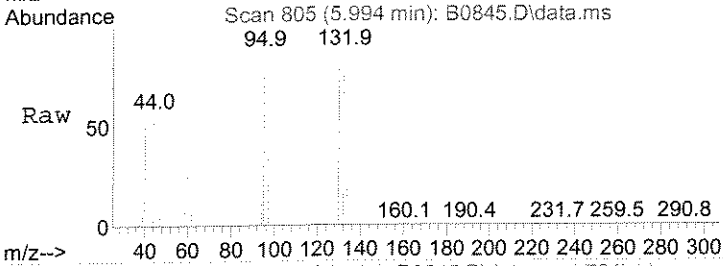
#51
 1,2-Dichloroethane
 Concen: 0.45 ug/L
 RT: 5.025 min Scan# 646
 Delta R.T. -0.000 min
 Lab File: B0845.D
 Acq: 1 Jul 2008 7:51 am

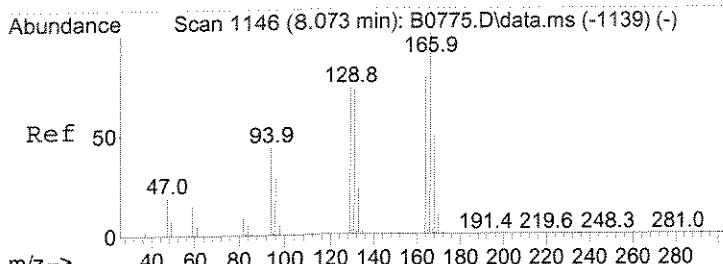
Tgt Ion	Resp	Lower	Upper
62	100		
64	25.5	26.5	39.7#
49	34.6	20.2	30.4#



#54
 Trichloroethene
 Concen: 0.22 ug/L
 RT: 5.994 min Scan# 805
 Delta R.T. -0.000 min
 Lab File: B0845.D
 Acq: 1 Jul 2008 7:51 am

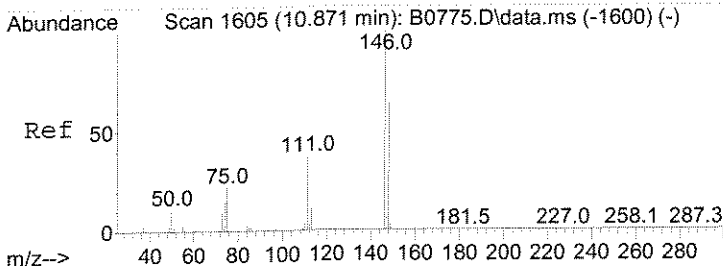
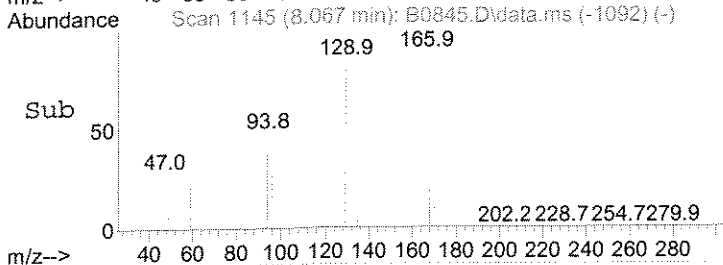
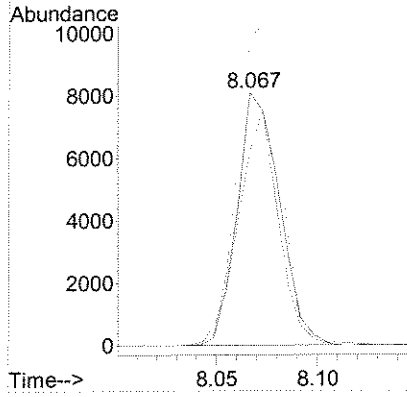
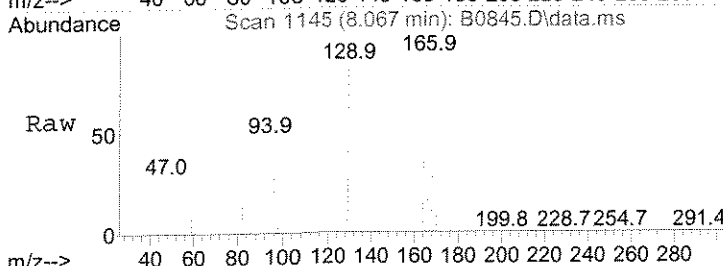
Tgt Ion	Resp	Lower	Upper
130	100		
132	120.5	77.0	115.4#
95	112.7	78.6	118.0
97	60.8	50.9	76.3





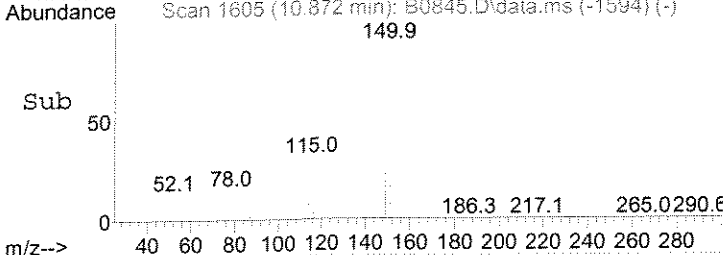
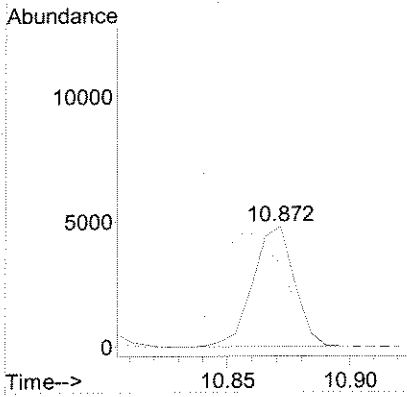
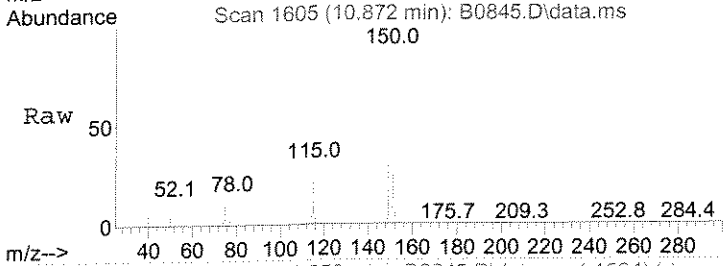
#72
 Tetrachloroethene
 Concen: 1.20 ug/L
 RT: 8.067 min Scan# 1145
 Delta R.T. -0.006 min
 Lab File: B0845.D
 Acq: 1 Jul 2008 7:51 am

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.4	101.5	152.3
129	101.6	73.8	110.6
131	76.9	72.9	109.3



#101
 1,4-Dichlorobenz
 Concen: 0.20 ug/L
 RT: 10.872 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0845.D
 Acq: 1 Jul 2008 7:51 am

Tgt Ion	Ratio	Lower	Upper
146	100		
148	69.2	51.2	76.8
111	27.2	30.0	45.0#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/25/08 Order #: 1112490 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	2.8 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	1.4 J	UG/L
TERT-BUTYL ALCOHOL	100	2.0 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	11	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	0.31 J	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/25/08 Order #: 1112490 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.26 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	0.68 J	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Sample : 1112490 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0846.D Vial: 34
 Acq On : 1 Jul 2008 8:21 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 01 08:35:44 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

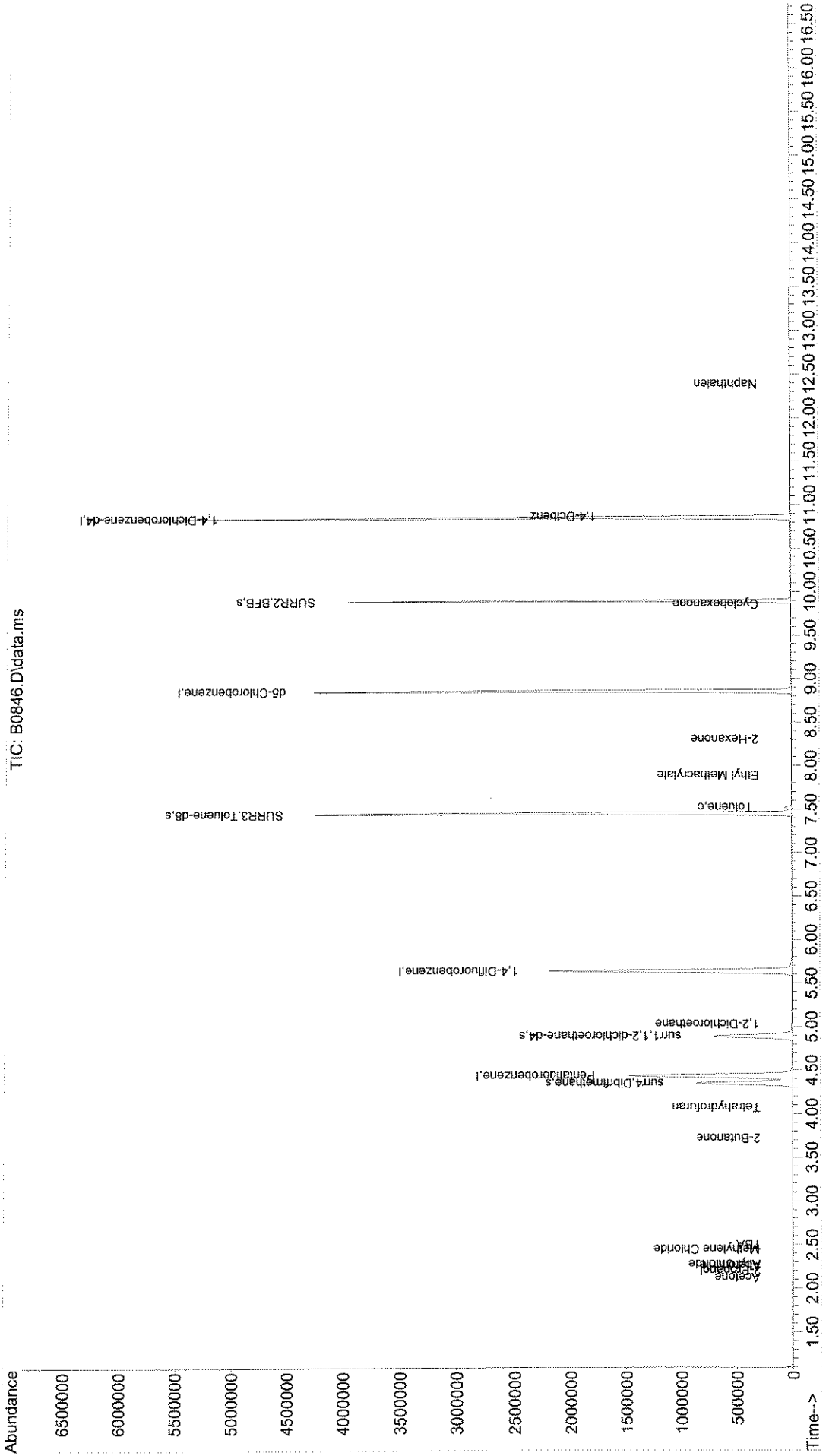
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1329941	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2144439	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1966939	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1054478	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	673041	47.36	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	94.72%		
49) surr1,1,2-dichloroetha...	4.891	65	724692	53.76	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.52%		
65) SURR3,Toluene-d8	7.445	98	2531699	54.23	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.46%		
70) SURR2,BFB	9.896	95	1016904	52.90	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.80%		
Target Compounds							
							Qvalue
16) Acetone	2.123	43	4538	2.77	ug/L	97	JB
17) 2-Propanol	2.203	45	1238	3.55	ug/L #	16	
20) Acetonitrile	2.264	40	674	2.94	ug/L #	1	
21) Allyl Chloride	2.276	76	1829	0.37	ug/L #	1	
23) Methylene Chloride	2.446	84	2849	0.26	ug/L	90	
24) TBA	2.501	59	1126	2.03	ug/L	75	J
35) 2-Butanone	3.721	43	3747	1.36	ug/L #	83	
40) Tetrahydrofuran	4.074	42	1712	1.08	ug/L #	76	NT
51) 1,2-Dichloroethane	5.031	62	4560	0.31	ug/L #	84	J
66) Toluene	7.519	91	32152	0.68	ug/L	99	
68) Ethyl Methacrylate	7.890	69	1588	1.71	ug/L	99	NT
73) 2-Hexanone	8.305	43	981	0.23	ug/L #	36	
85) Cyclohexanone	9.860	55	680	0.76	ug/L #	29	
101) 1,4-Dclbenz	10.865	146	299950	10.92	ug/L	98	
109) Naphthalen	12.383	128	860	0.56	ug/L #	82	JB CLR

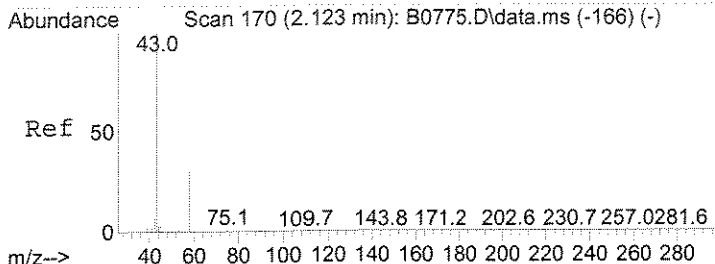
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Fin 7/21/08
 FU
 7/3/08

Sample : 1112490 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0846.D Vial: 34
 Acq On : 1 Jul 2008 8:21 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

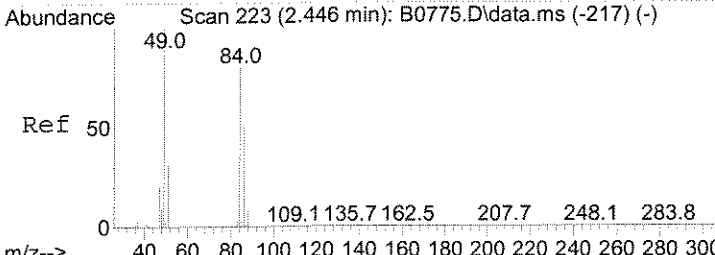
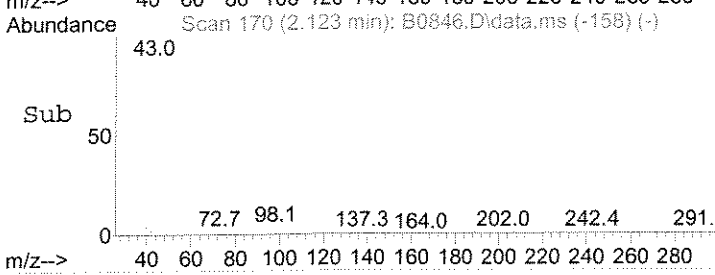
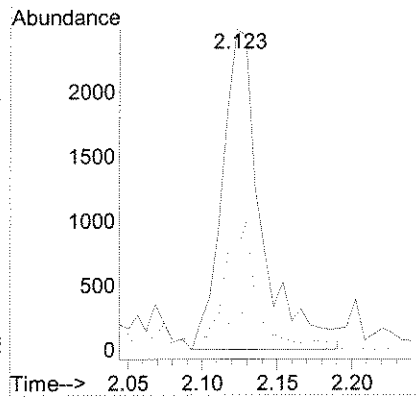
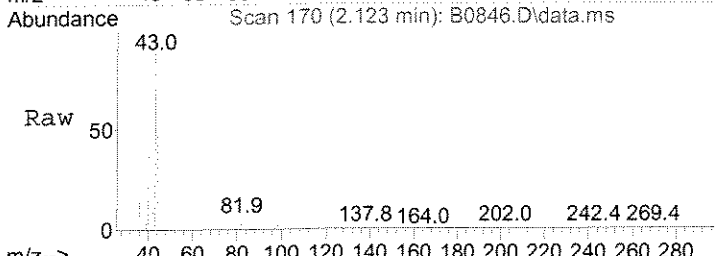
Quant Time: Jul 01 08:35:44 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





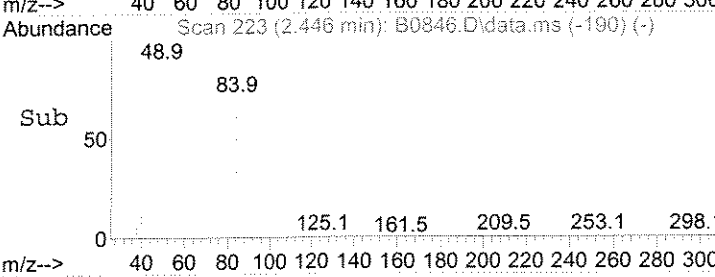
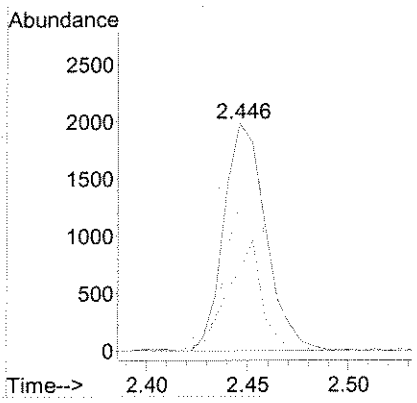
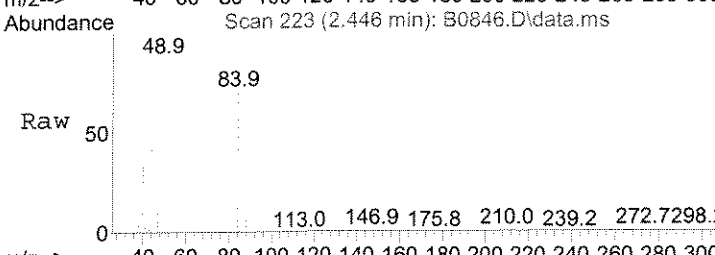
#16
 Acetone
 Concen: 2.77 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0846.D
 Acq: 1 Jul 2008 8:21 am

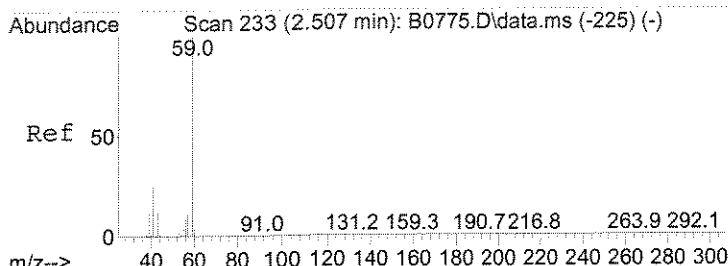
Tgt Ion	Resp	Lower	Upper
43	4538		
58	30.3	0.9	60.9
42	11.0	0.0	37.2



#23
 Methylene Chloride
 Concen: 0.26 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0846.D
 Acq: 1 Jul 2008 8:21 am

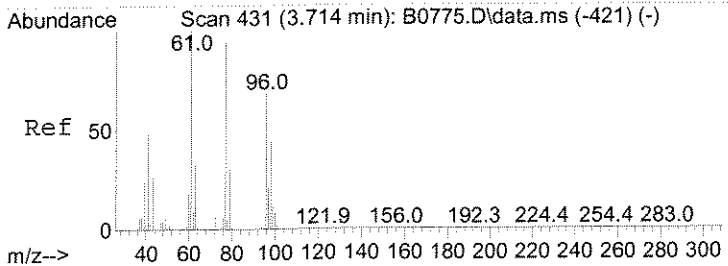
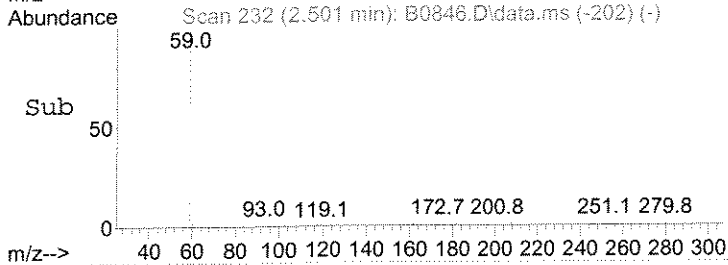
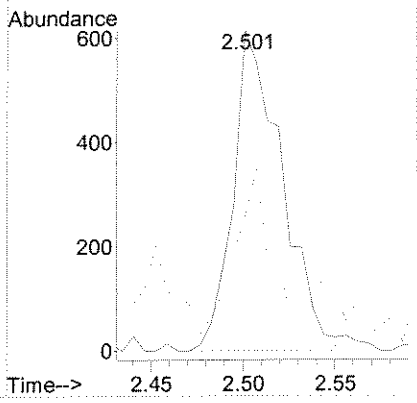
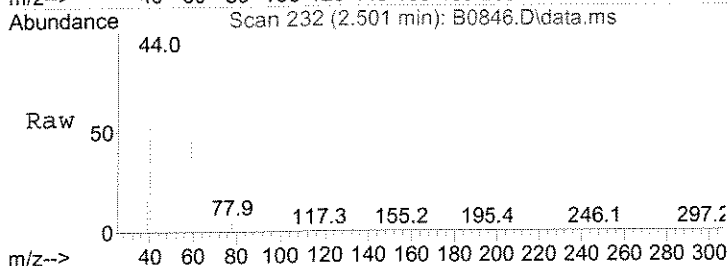
Tgt Ion	Resp	Lower	Upper
84	2849		
86	65.6	50.5	75.7
49	140.4	99.5	149.3
51	35.5	31.1	46.7





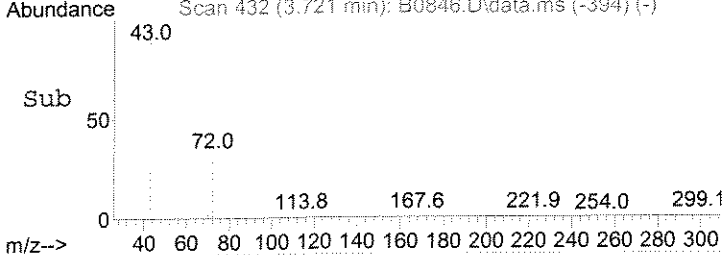
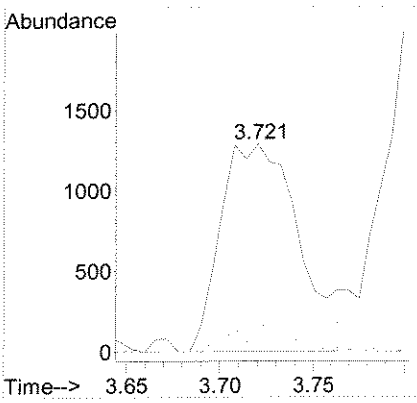
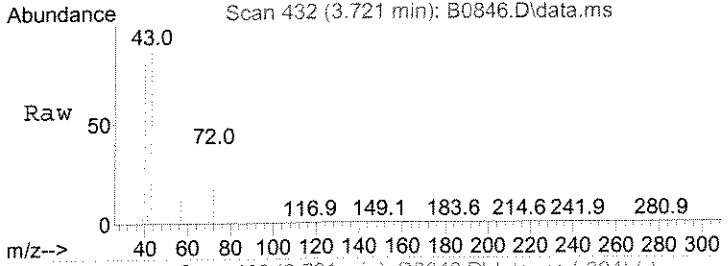
#24
TBA
Concen: 2.03 ug/L
RT: 2.501 min Scan# 232
Delta R.T. -0.006 min
Lab File: B0846.D
Acq: 1 Jul 2008 8:21 am

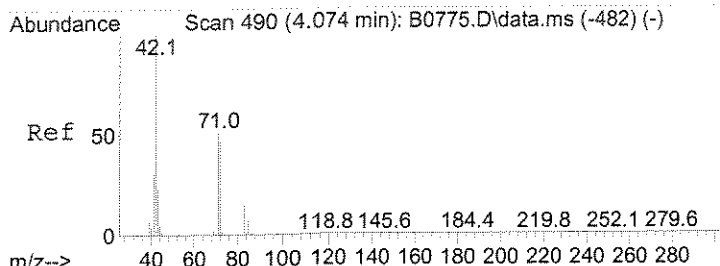
Tgt Ion	Resp	Lower	Upper
59	1126		
41	42.4	14.5	43.6



#35
2-Butanone
Concen: 1.36 ug/L
RT: 3.721 min Scan# 432
Delta R.T. 0.006 min
Lab File: B0846.D
Acq: 1 Jul 2008 8:21 am

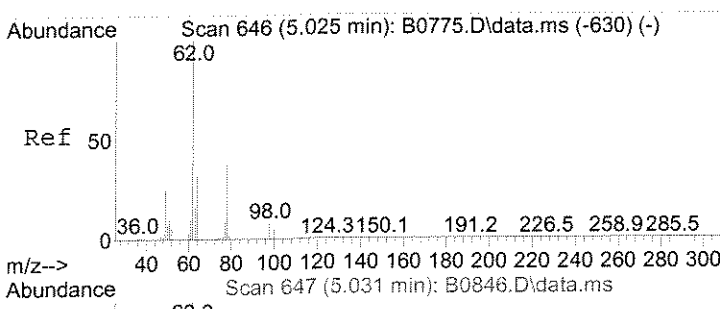
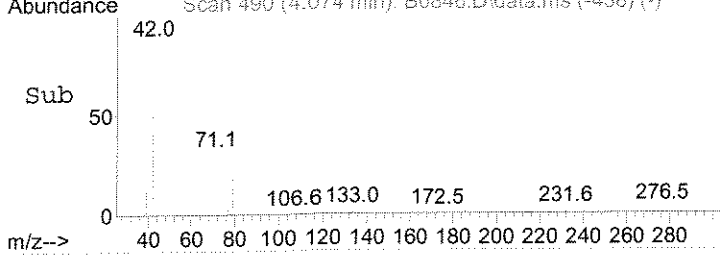
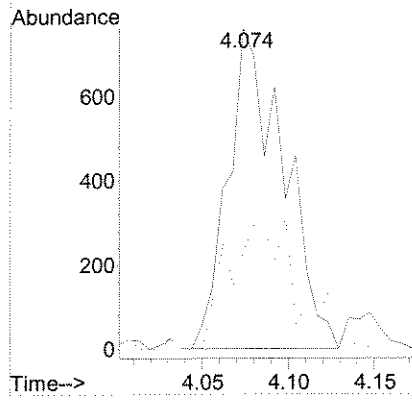
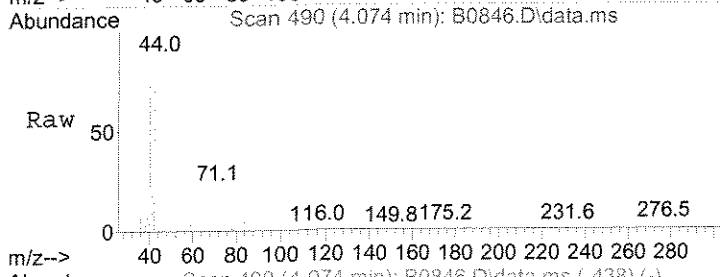
Tgt Ion	Resp	Lower	Upper
43	3747		
57	12.6	7.4	11.0#
72	38.1	22.1	33.1#





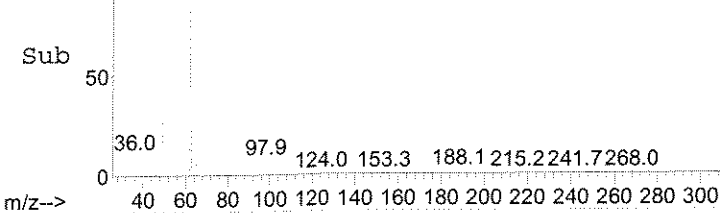
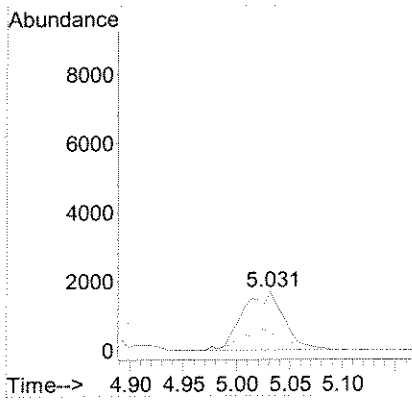
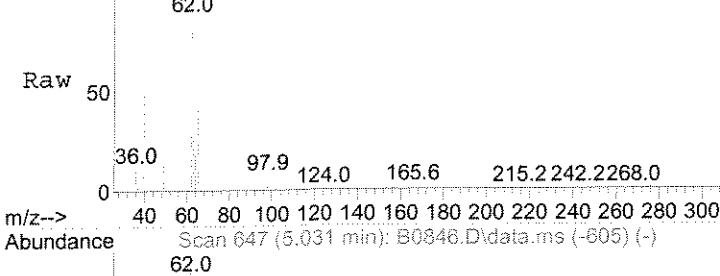
#40
 Tetrahydrofuran
 Concen: 1.08 ug/L
 RT: 4.074 min Scan# 490
 Delta R.T. -0.000 min
 Lab File: B0846.D
 Acq: 1 Jul 2008 8:21 am

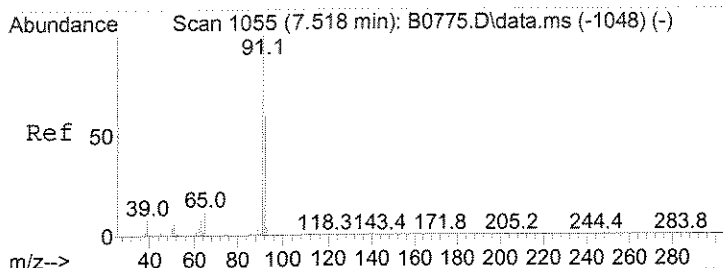
Tgt Ion:	42	72	Resp:	1712
Ion Ratio	100	30.6	Lower	Upper
			37.4	56.2#



#51
 1,2-Dichloroethane
 Concen: 0.31 ug/L
 RT: 5.031 min Scan# 647
 Delta R.T. 0.006 min
 Lab File: B0846.D
 Acq: 1 Jul 2008 8:21 am

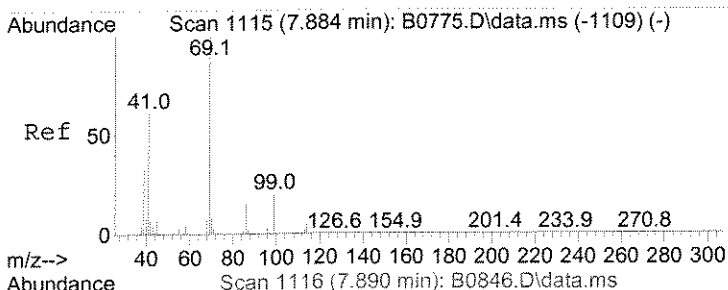
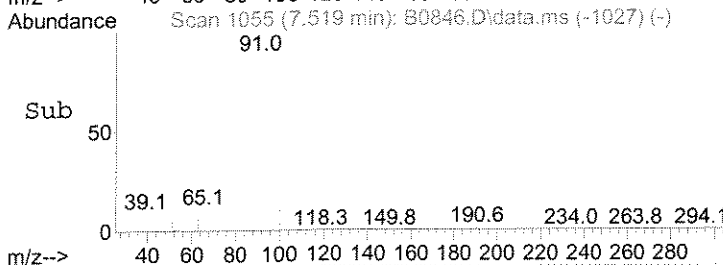
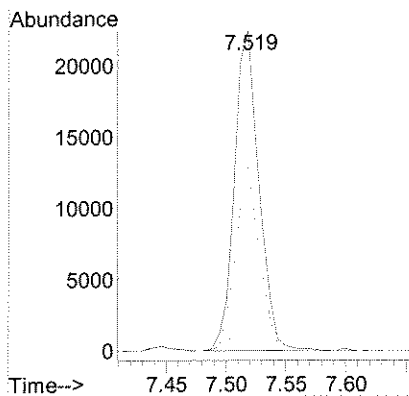
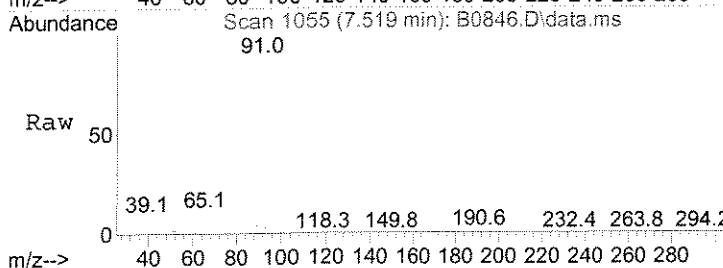
Tgt Ion:	62	64	49	Resp:	4560
Ion Ratio	100	21.5	30.9	Lower	Upper
		26.5	20.2	39.7#	30.4#





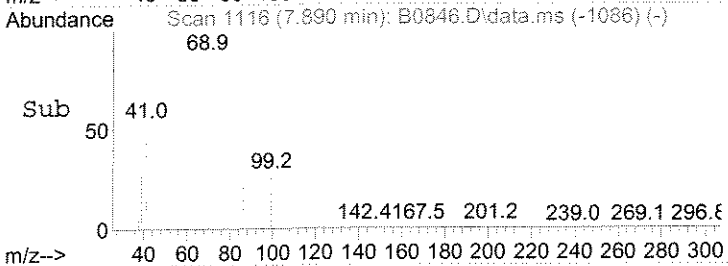
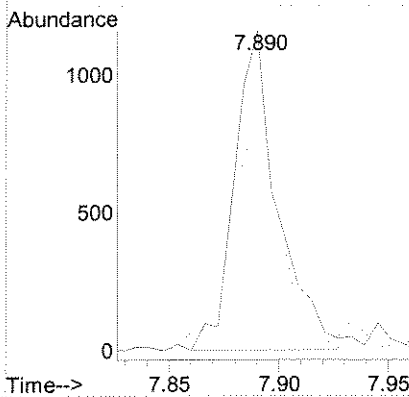
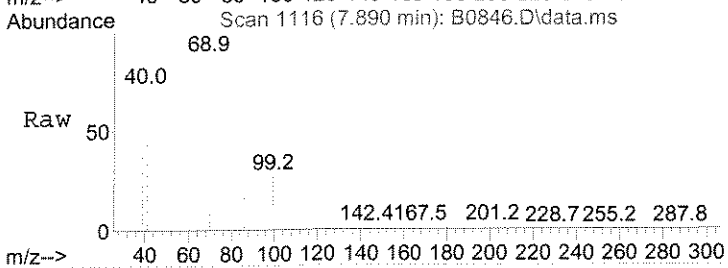
#66
 Toluene
 Concen: 0.68 ug/L
 RT: 7.519 min Scan# 1055
 Delta R.T. -0.000 min
 Lab File: B0846.D
 Acq: 1 Jul 2008 8:21 am

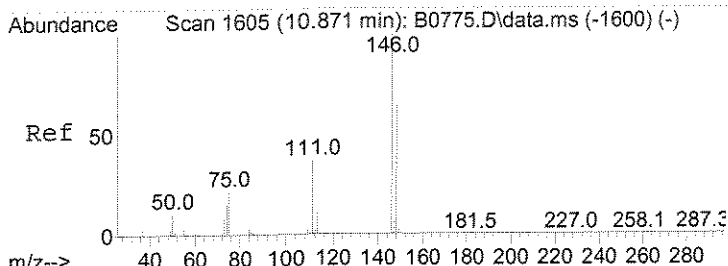
Tgt Ion	Resp	Lower	Upper
91	32152		
92	58.0	47.1	70.7
65	11.0	9.3	13.9



#68
 Ethyl Methacrylate
 Concen: 1.71 ug/L
 RT: 7.890 min Scan# 1116
 Delta R.T. 0.000 min
 Lab File: B0846.D
 Acq: 1 Jul 2008 8:21 am

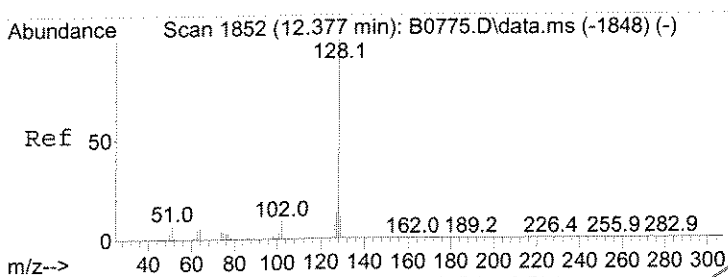
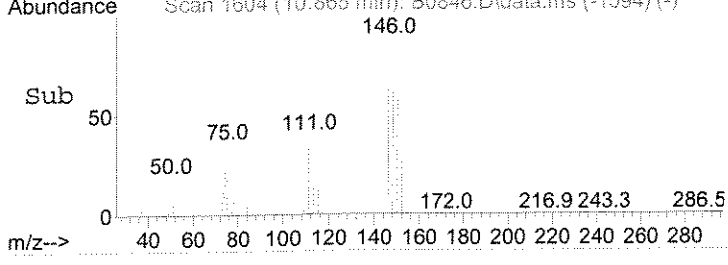
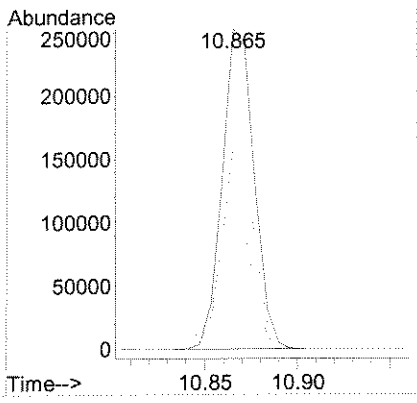
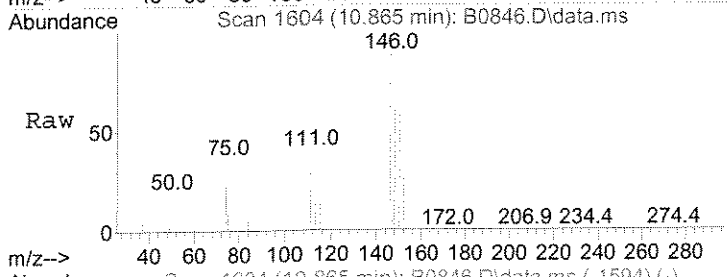
Tgt Ion	Resp	Lower	Upper
69	1588		
41	60.6	49.2	73.8





#101
 1,4-Dclbenz
 Concen: 10.92 ug/L
 RT: 10.865 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: B0846.D
 Acq: 1 Jul 2008 8:21 am

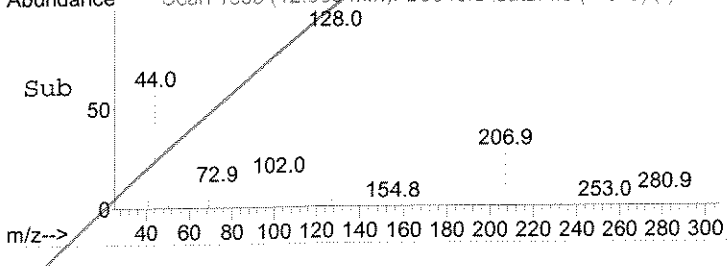
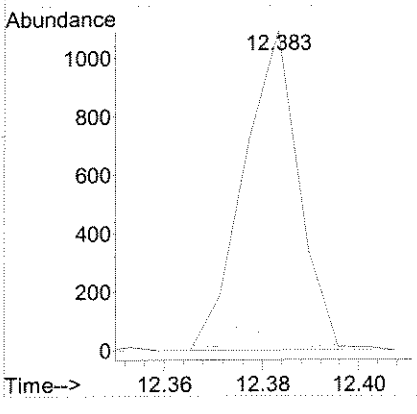
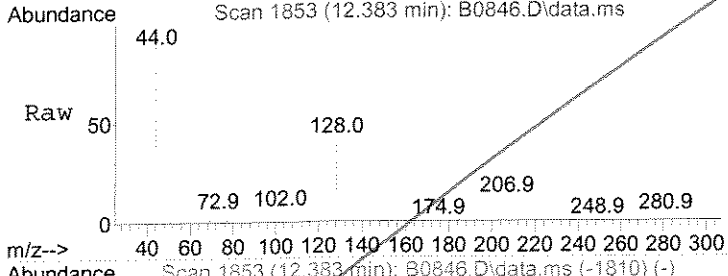
Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.2	76.8
111	40.0	30.0	45.0



#109
 Naphthalen
 Concen: 0.56 ug/L
 RT: 12.383 min Scan# 1853
 Delta R.T. 0.006 min
 Lab File: B0846.D
 Acq: 1 Jul 2008 8:21 am

Tgt Ion	Ratio	Lower	Upper
128	100		
127	5.4	10.0	15.0#
102	14.7	6.9	10.3#

FW 7/21/08



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : TRIP BLANK

Date Sampled : 06/25/08 14:00 Order #: 1112491 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	3.6 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	0.92 J	UG/L
TERT-BUTYL ALCOHOL	100	3.1 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	0.26 J	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/25/08 14:00 Order #: 1112491 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.29 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Sample : 1112491 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0847.D Vial: 35
 Acq On : 1 Jul 2008 8:51 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 01 09:05:37 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

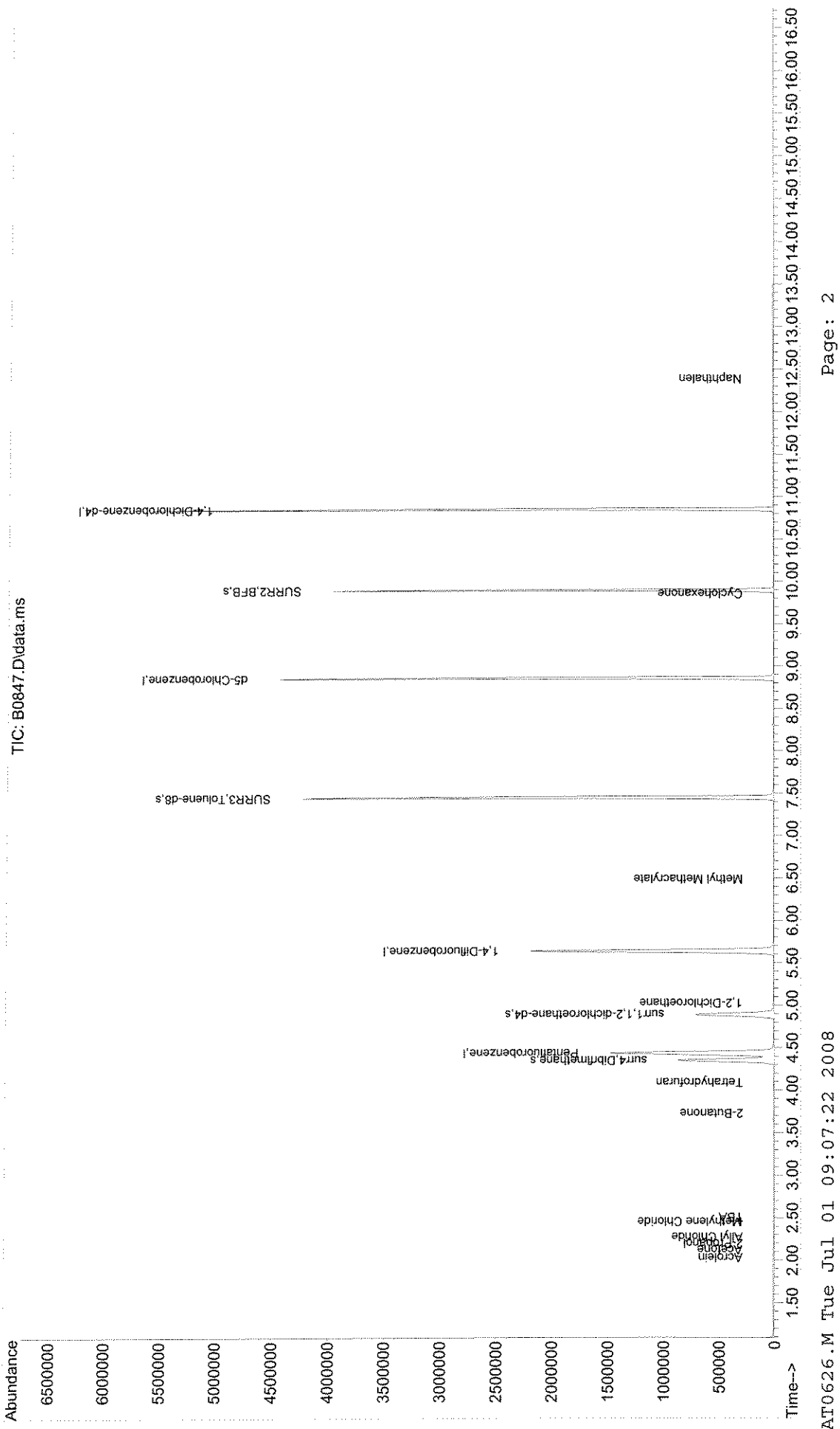
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1317189	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	2132474	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.854	117	1957305	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1040798	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	677244	48.12	ug/L	0.00
Spiked Amount	50.000		Recovery	=	96.24%	
49) surr1,1,2-dichloroetha...	4.891	65	721533	53.83	ug/L	0.00
Spiked Amount	50.000		Recovery	=	107.66%	
65) SURR3,Toluene-d8	7.445	98	2513187	54.14	ug/L	0.00
Spiked Amount	50.000		Recovery	=	108.28%	
70) SURR2,BFB	9.896	95	1021457	53.43	ug/L	0.00
Spiked Amount	50.000		Recovery	=	106.86%	
Target Compounds						
						Qvalue
13) Acrolein	2.032	56	418	0.53	ug/L	86
16) Acetone	2.123	43	5884	3.62	ug/L	94 JB
17) 2-Propanol	2.196	45	730	2.11	ug/L #	25
21) Allyl Chloride	2.276	76	3446	0.70	ug/L #	1
23) Methylene Chloride	2.452	84	3168	0.29	ug/L #	91
24) TBA	2.507	59	1686	3.07	ug/L #	48
35) 2-Butanone	3.727	43	2506	0.92	ug/L #	87
40) Tetrahydrofuran	4.092	42	1718	1.10	ug/L #	71 NT
51) 1,2-Dichloroethane	5.025	62	3877	0.26	ug/L	94 J
59) Methyl Methacrylate	6.488	69	584	1.57	ug/L #	86 NT
85) Cyclohexanone	9.853	55	697	0.78	ug/L #	49
109) Naphthalen	12.383	128	911	0.56	ug/L #	90 JB Fu 7/2/08

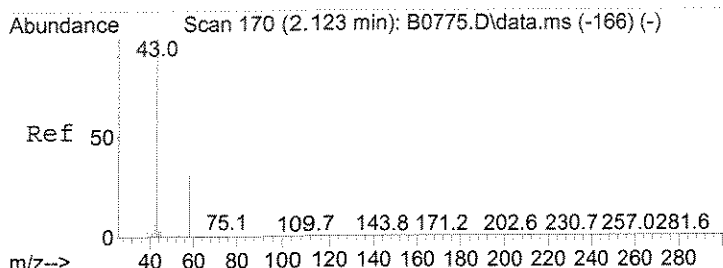
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FU
7/2/08

Sample : 1112491 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0847.D Vial: 35
 Acq On : 1 Jul 2008 8:51 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

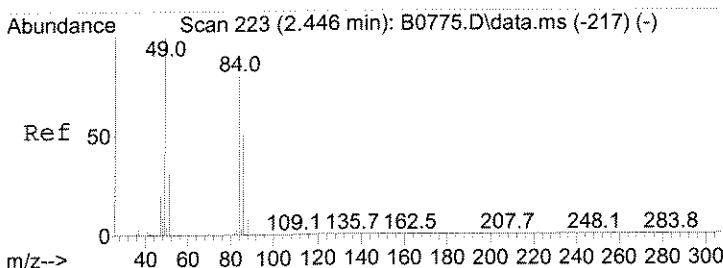
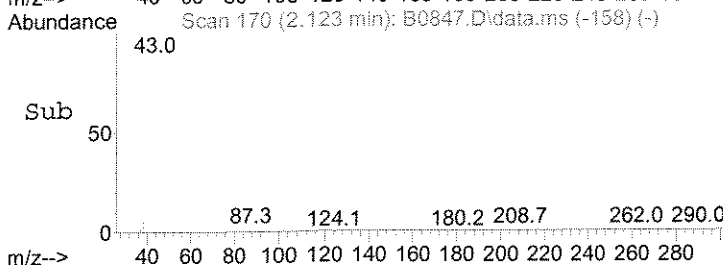
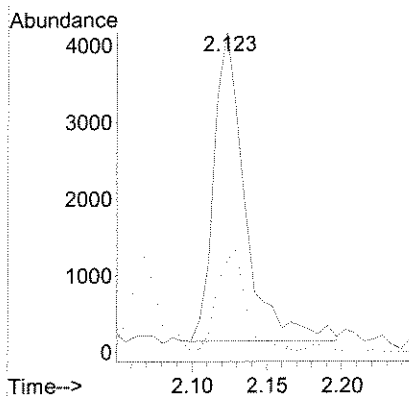
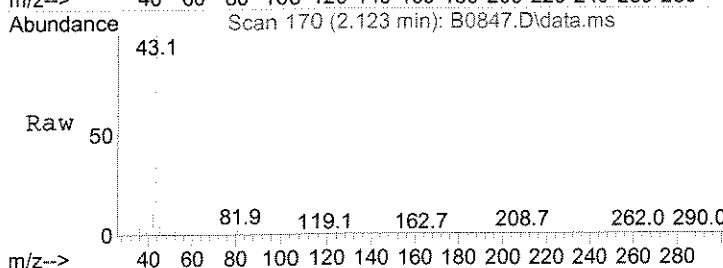
Quant Time: Jul 01 09:05:37 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





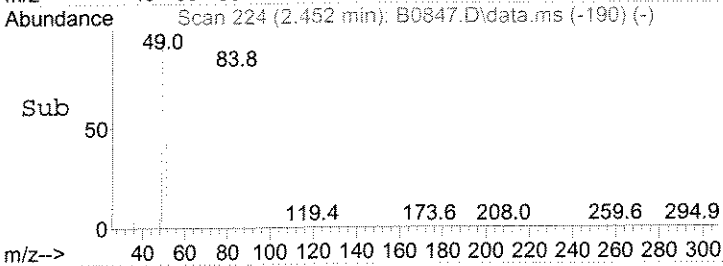
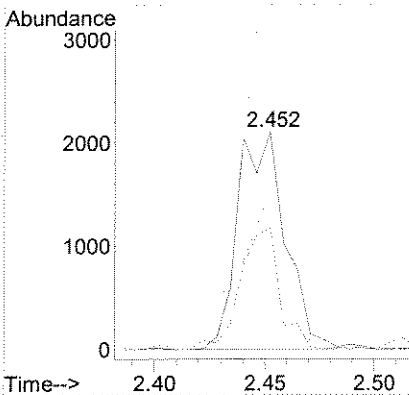
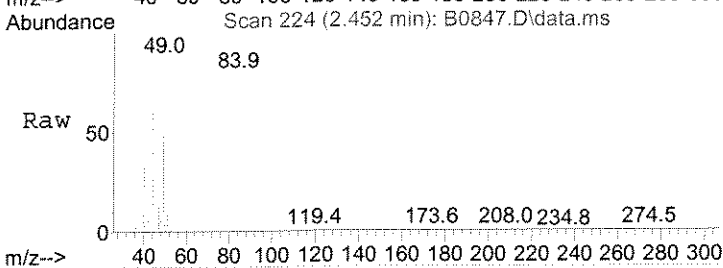
#16
 Acetone
 Concen: 3.62 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0847.D
 Acq: 1 Jul 2008 8:51 am

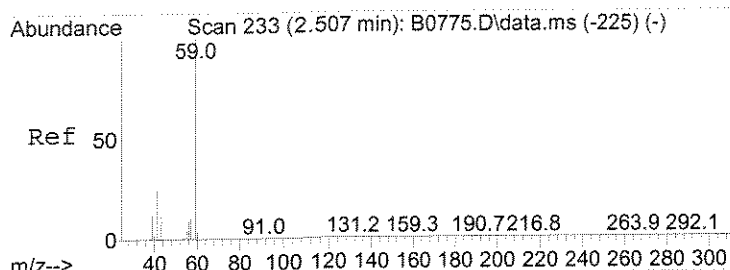
Tgt Ion	Resp	Lower	Upper
43	100		
58	28.6	0.9	60.9
42	11.2	0.0	37.2



#23
 Methylene Chloride
 Concen: 0.29 ug/L
 RT: 2.452 min Scan# 224
 Delta R.T. 0.006 min
 Lab File: B0847.D
 Acq: 1 Jul 2008 8:51 am

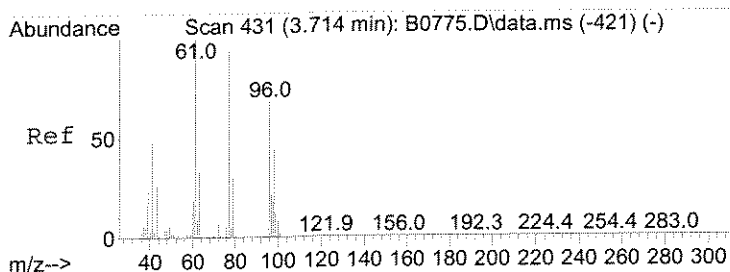
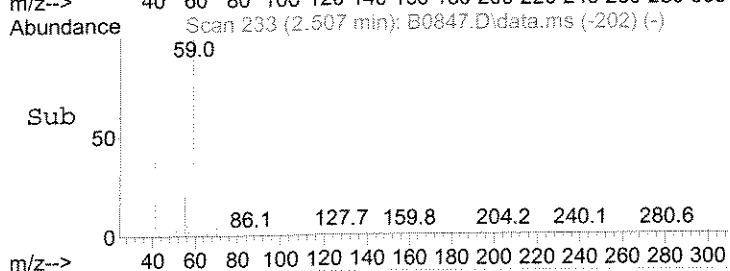
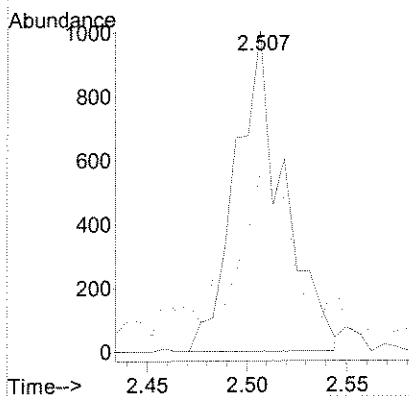
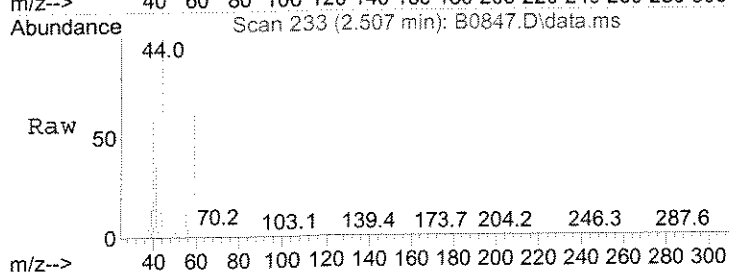
Tgt Ion	Resp	Lower	Upper
84	100		
86	72.9	50.5	75.7
49	125.3	99.5	149.3
51	55.7	31.1	46.7#





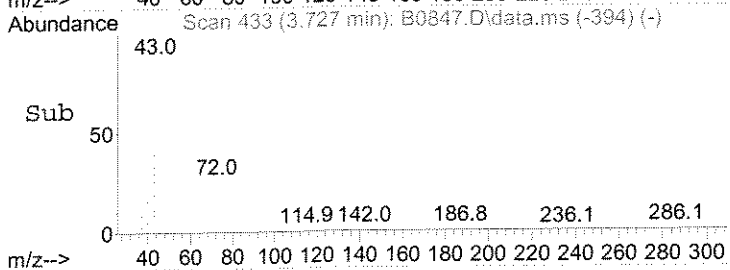
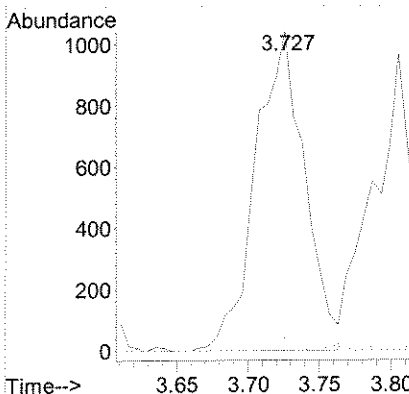
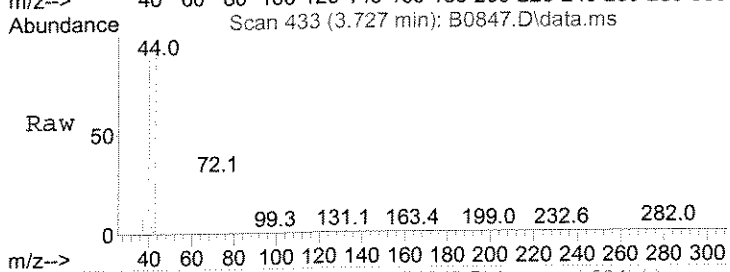
#24
 TBA
 Concen: 3.07 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0847.D
 Acq: 1 Jul 2008 8:51 am

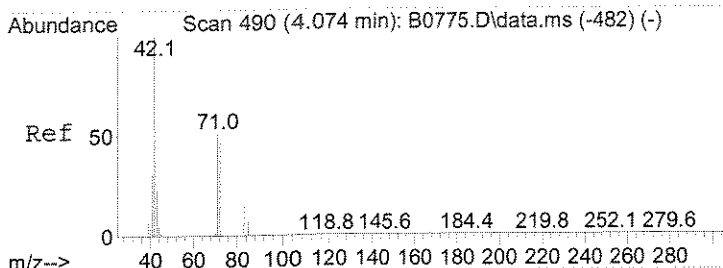
Tgt Ion: 59 Resp: 1686
 Ion Ratio Lower Upper
 59 100
 41 56.7 14.5 43.6#



#35
 2-Butanone
 Concen: 0.92 ug/L
 RT: 3.727 min Scan# 433
 Delta R.T. 0.012 min
 Lab File: B0847.D
 Acq: 1 Jul 2008 8:51 am

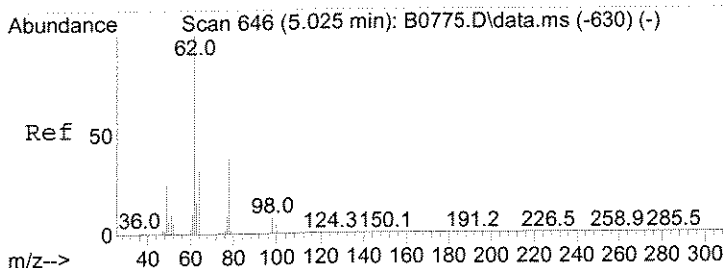
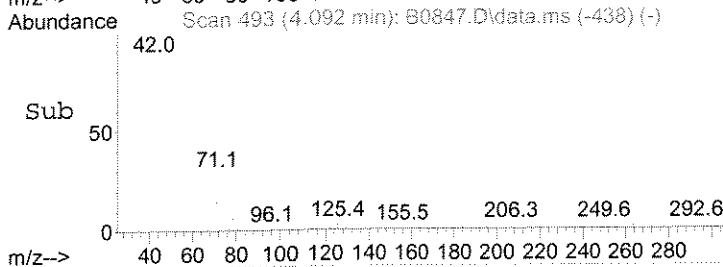
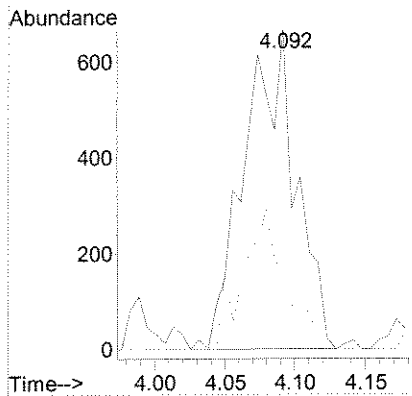
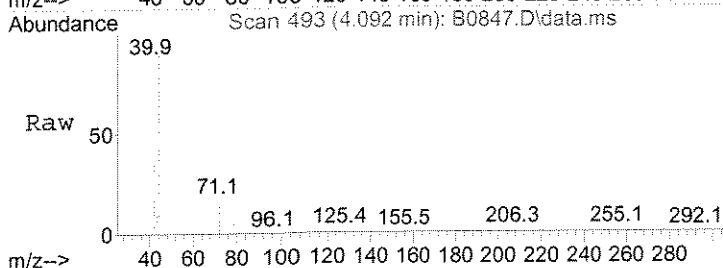
Tgt Ion: 43 Resp: 2506
 Ion Ratio Lower Upper
 43 100
 57 4.4 7.4 11.0#
 72 34.0 22.1 33.1#





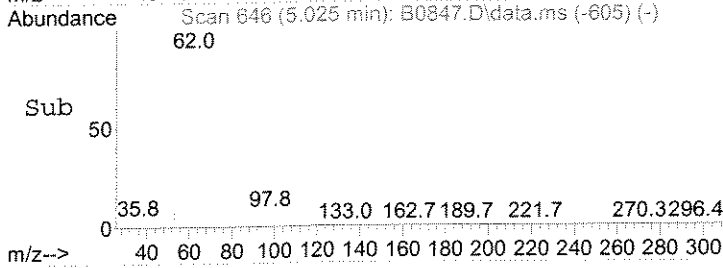
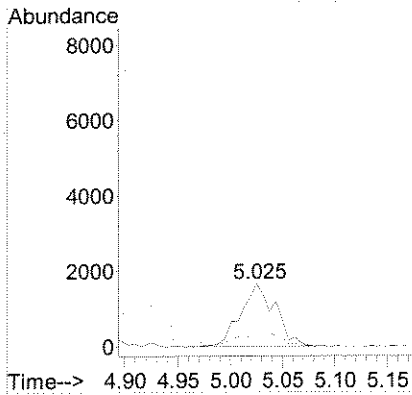
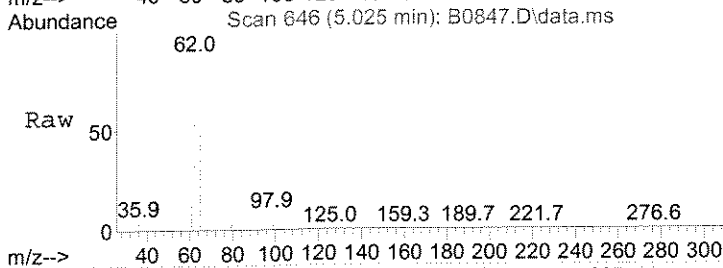
#40
 Tetrahydrofuran
 Concen: 1.10 ug/L
 RT: 4.092 min Scan# 493
 Delta R.T. 0.018 min
 Lab File: B0847.D
 Acq: 1 Jul 2008 8:51 am

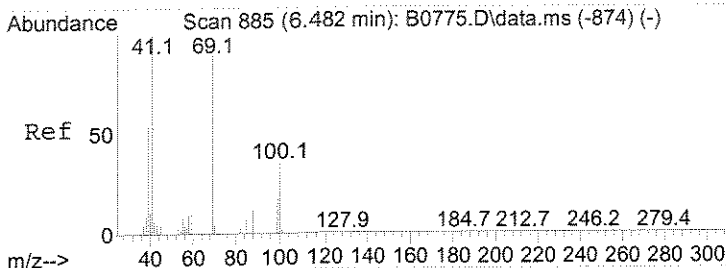
Tgt Ion:	42	Resp:	1718
Ion Ratio	Lower	Upper	
42	100		
72	27.2	37.4	56.2#



#51
 1,2-Dichloroethane
 Concen: 0.26 ug/L
 RT: 5.025 min Scan# 646
 Delta R.T. -0.000 min
 Lab File: B0847.D
 Acq: 1 Jul 2008 8:51 am

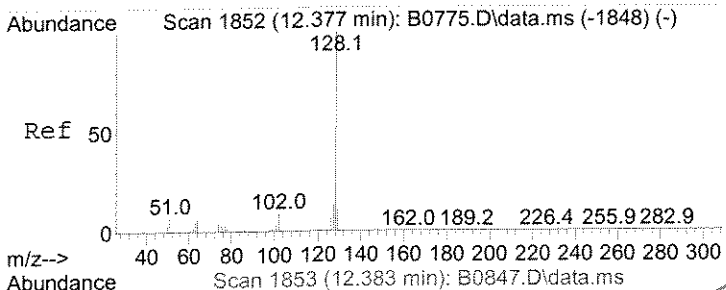
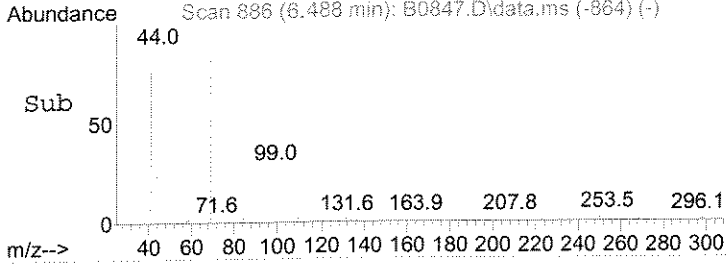
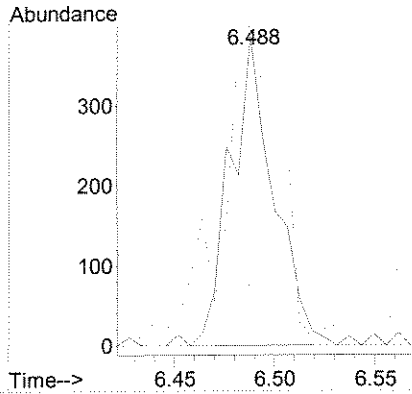
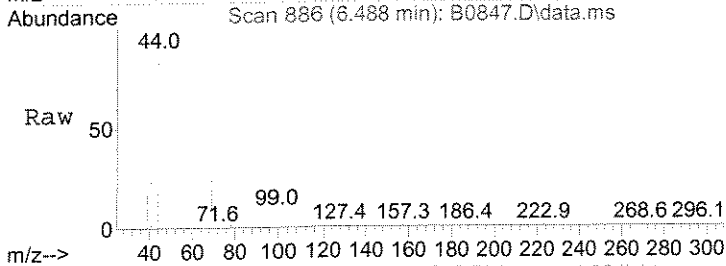
Tgt Ion:	62	Resp:	3877
Ion Ratio	Lower	Upper	
62	100		
64	36.1	26.5	39.7
49	22.1	20.2	30.4





#59
Methyl Methacrylate
Concen: 1.57 ug/L
RT: 6.488 min Scan# 886
Delta R.T. 0.006 min
Lab File: B0847.D
Acq: 1 Jul 2008 8:51 am

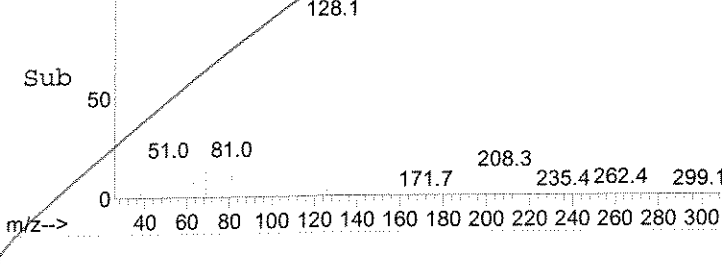
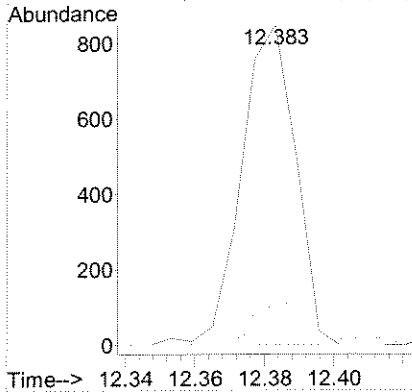
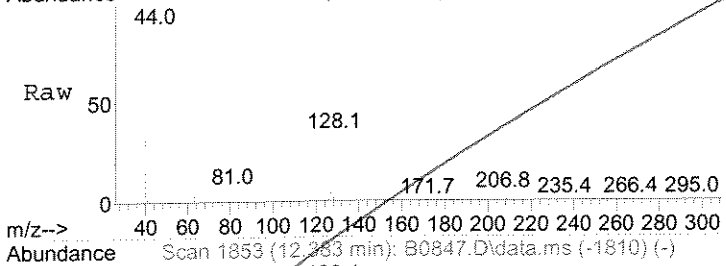
Tgt Ion	Ratio	Lower	Upper
69	100		
41	103.6	90.3	135.5
100	21.2	31.9	47.9#



#109
Naphthalen
Concen: 0.56 ug/L
RT: 12.383 min Scan# 1853
Delta R.T. 0.006 min
Lab File: B0847.D
Acq: 1 Jul 2008 8:51 am

Tgt Ion	Ratio	Lower	Upper
128	100		
127	16.3	10.0	15.0#
102	12.4	6.9	10.3#

FJ
7/21/08



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : MC-94B

Date Sampled : 06/25/08 14:31 Order #: 1112809 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.2 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	3.4 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	0.80 J	UG/L
CHLOROFORM	1.0	7.8	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.4	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	0.94 J	UG/L
1,2-DICHLOROETHANE	1.0	0.64 J	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : MC-94B

Date Sampled : 06/25/08 14:31 Order #: 1112809 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.58 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.1	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	0.32 J	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	98	%

Sample : 1112809 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070208\B0888.D Vial: 9
 Acq On : 2 Jul 2008 7:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 02 19:33:40 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.440	168	1323482	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2159676	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1978877	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1065704	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	695305	49.00	ug/L	0.00	
Spiked Amount			Recovery	=	98.00%		
49) surr1,1,2-dichloroetha...	4.891	65	738237	54.38	ug/L	0.00	
Spiked Amount			Recovery	=	108.76%		
65) SURR3,Toluene-d8	7.445	98	2551134	54.27	ug/L	0.00	
Spiked Amount			Recovery	=	108.54%		
70) SURR2,BFB	9.896	95	1033219	53.37	ug/L	0.00	
Spiked Amount			Recovery	=	106.74%		
Target Compounds							
7) Chloroethane	1.611	64	4497	0.80	ug/L	99	J
10) Diethyl Ether	1.934	59	21476	3.59	ug/L	94	>NT
15) Freon 113	2.093	101	2217	0.23	ug/L	79	
16) Acetone	2.123	43	1886	1.15	ug/L	89	JB
17) 2-Propanol	2.196	45	275	0.79	ug/L #	1	
21) Allyl Chloride	2.276	76	6557	1.32	ug/L #	1	
23) Methylene Chloride	2.446	84	6462	0.58	ug/L	86	J
24) TBA	2.507	59	1875 1532 340	2.78	ug/L #	70	JB
28) 1,1-Diclcethane	3.062	63	17623	0.94	ug/L #	90	J
40) Tetrahydrofuran	4.080	42	1154	0.73	ug/L #	69	
41) Chloroform	4.123	83	149840	7.80	ug/L	100	
51) 1,2-Dichloroethane	5.025	62	9565	0.64	ug/L	97	
54) Trichloroethene	5.988	130	3843	0.32	ug/L #	84	J
72) Tetrachloroethene	8.073	164	10434	1.06	ug/L	96	
85) Cyclohexanone	9.847	55	694	0.77	ug/L #	30	
101) 1,4-Dclbenz	10.865	146	66167	2.38	ug/L	98	
109) Naphthalen	12.383	128	791	0.55	ug/L #	91	CLR

(#) = qualifier out of range (m) = manual integration (+) = signals summed

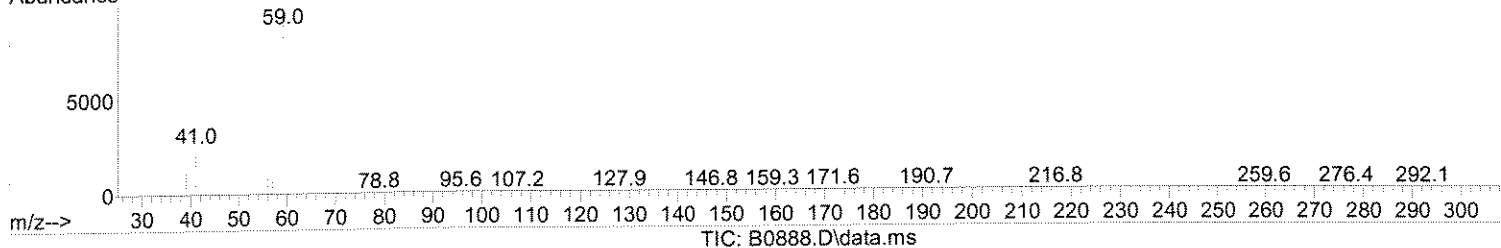
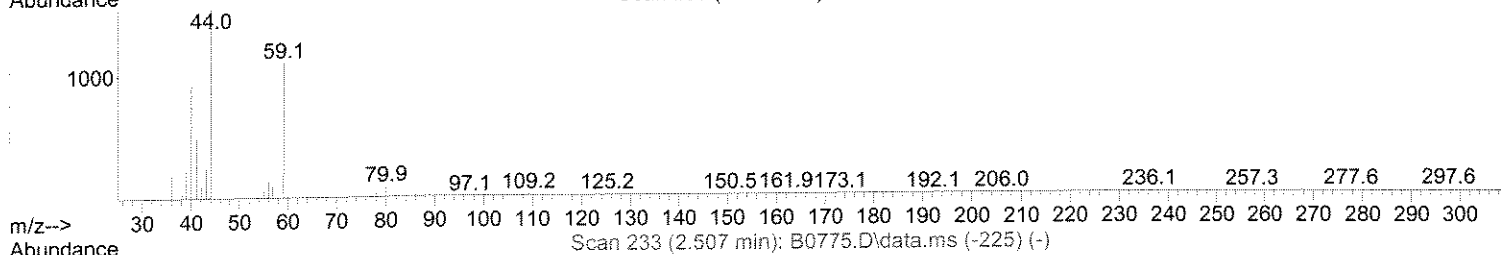
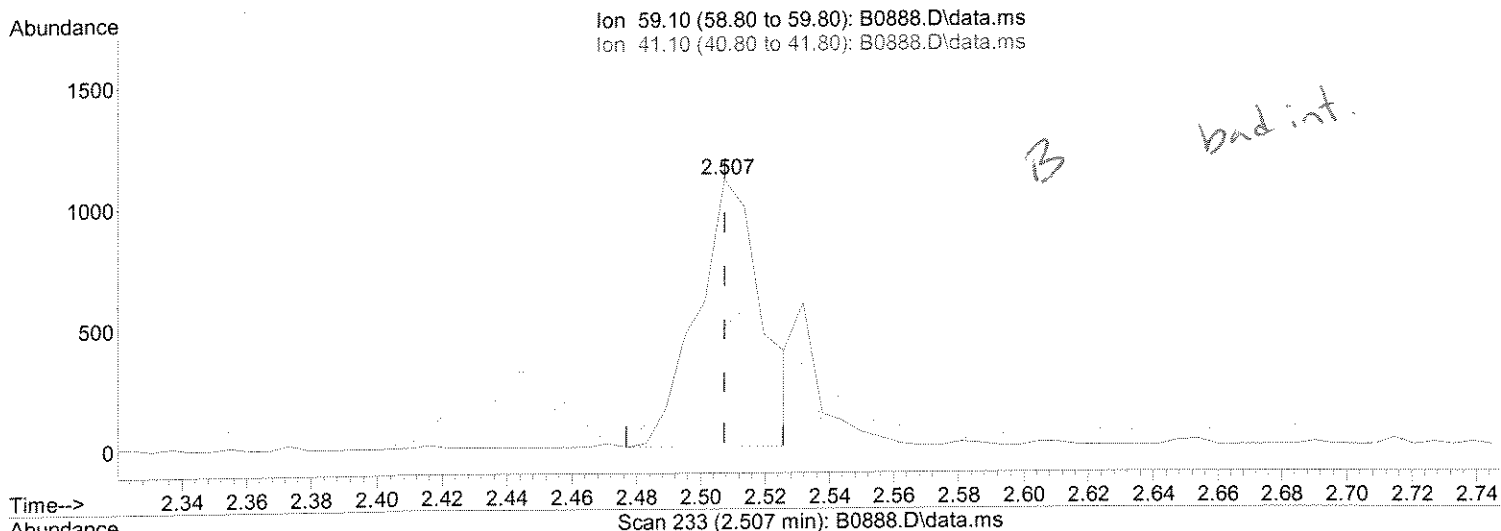
FN
7/8/08

Quantitation Report (Qedit)

Sample : 1112809 1.0
Data File : J:\ACQUDATA\msvoa10\data\070208\B0888.D Vial: 9
Acq On : 2 Jul 2008 7:19 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 02 19:33:40 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

*FW
7/8/08*



(24) TBA

2.507min (-0.000) 2.78 ug/L

response 1532

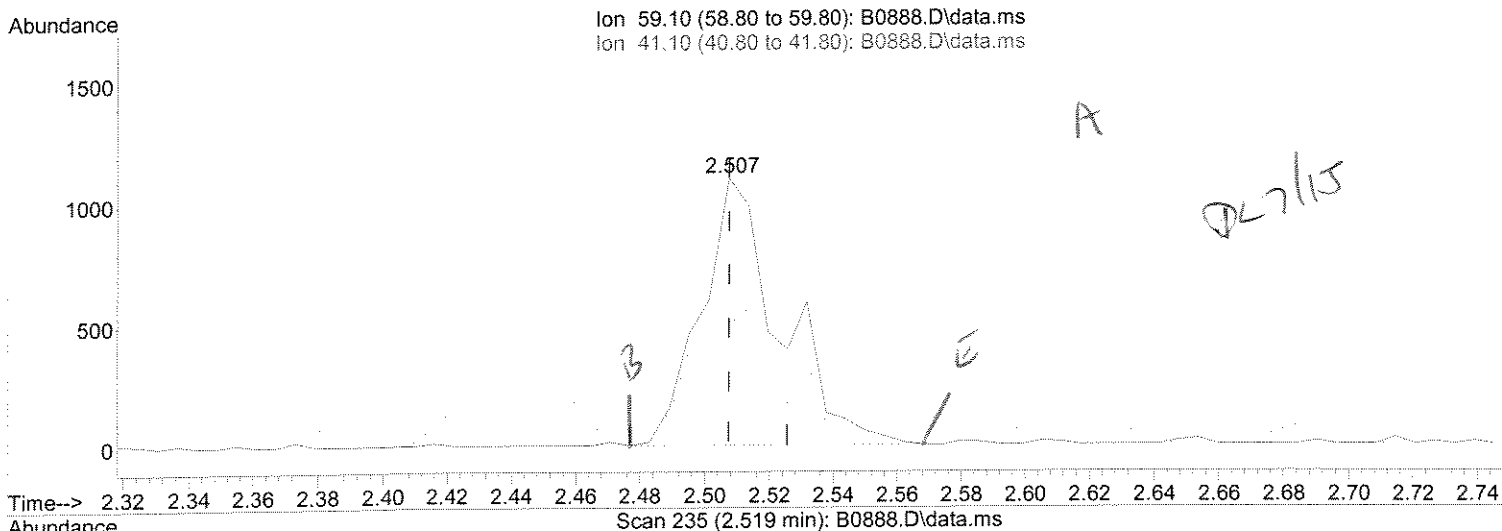
Ion	Exp%	Act%
59.10	100	100
41.10	29.10	45.06#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

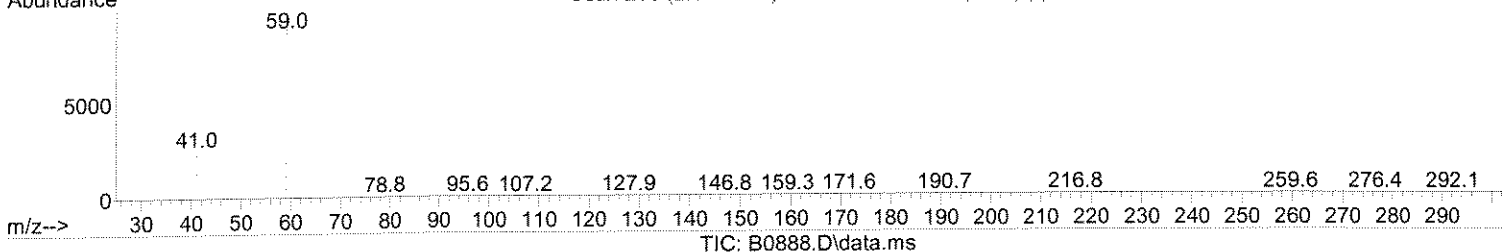
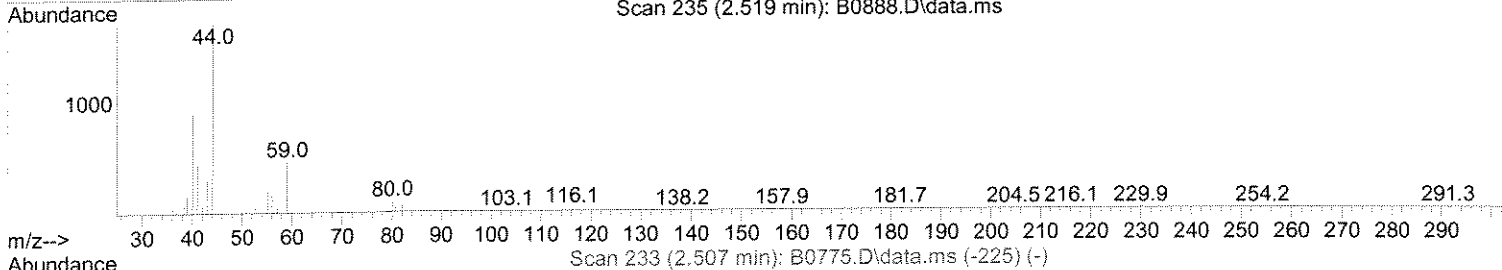
Sample : 1112809 1.0
 Data File : J:\ACQUDATA\msvoa10\data\070208\B0888.D Vial: 9
 Acq On : 2 Jul 2008 7:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 02 19:33:40 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FJ 7/2/08



DL 7/15



(24) TBA

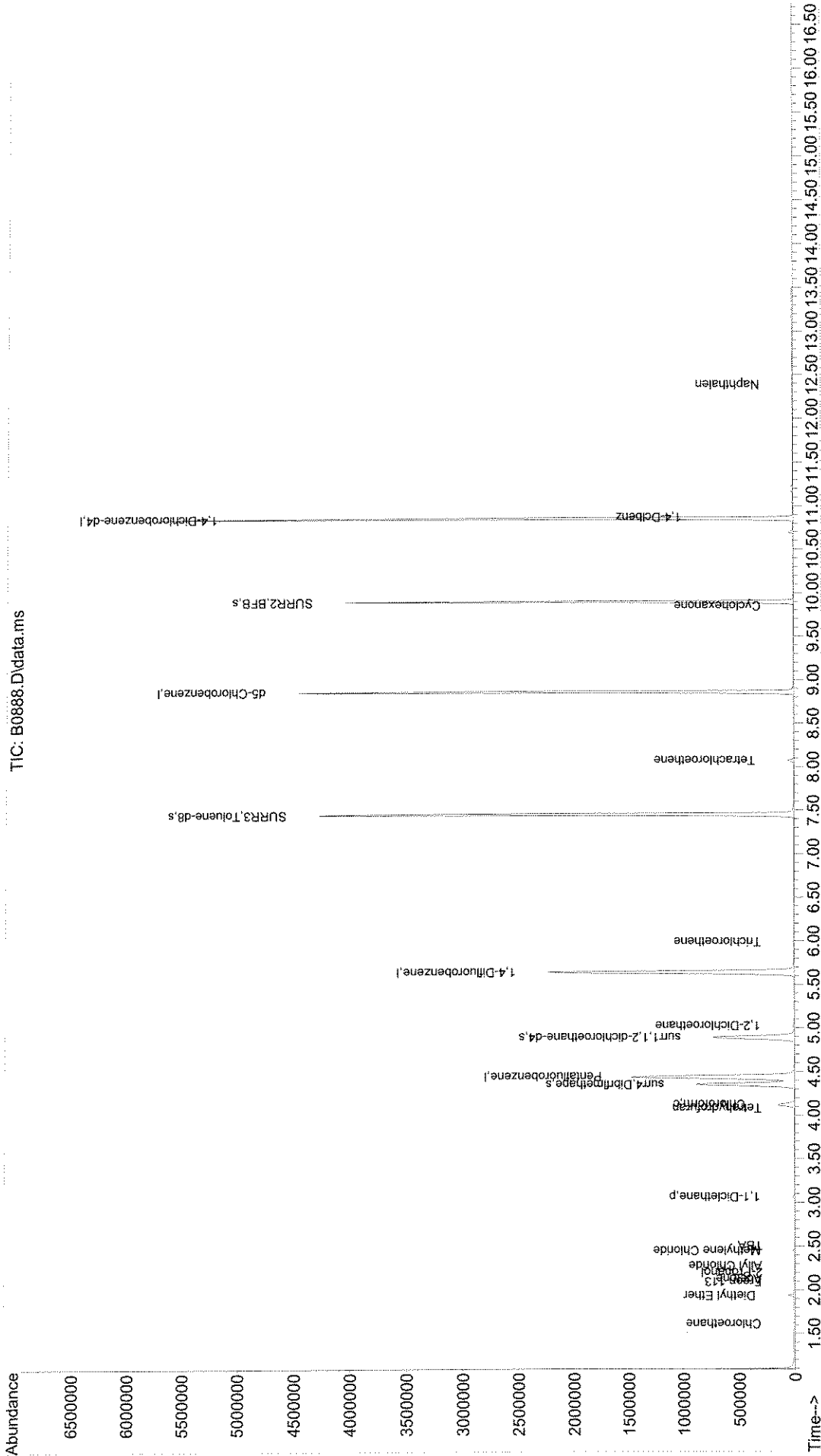
2.507min (-0.000) 3.40 ug/L m

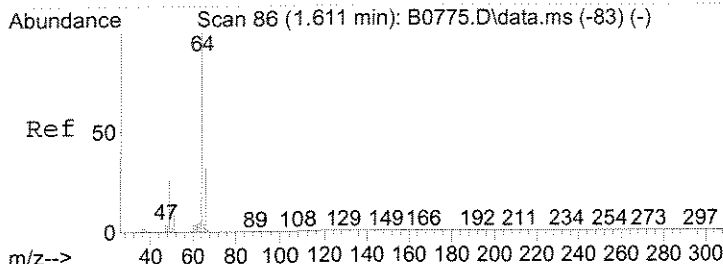
response 1875

Ion	Exp%	Act%
59.10	100	100
41.10	29.10	45.06#
0.00	0.00	0.00
0.00	0.00	0.00

Sample : 1112809 1.0 Vial: 9
 Data File : J:\ACQDATA\MSVOA10\DATA\070208\B0888.D
 Acq On : 2 Jul 2008 7:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

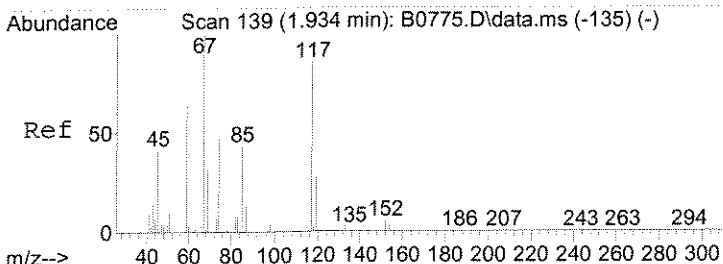
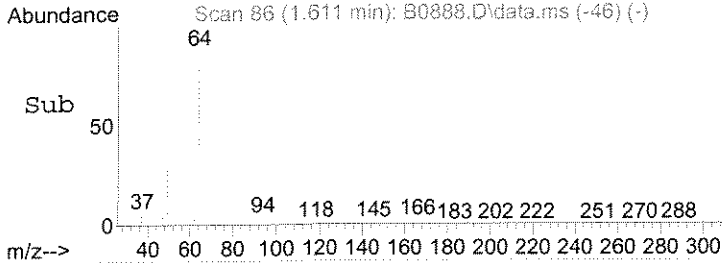
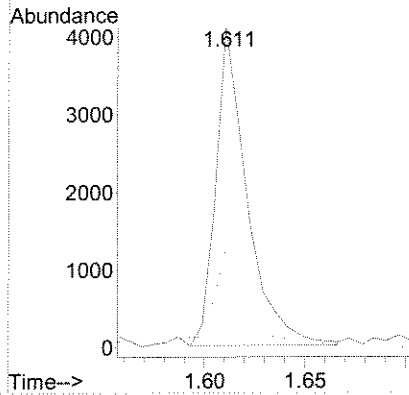
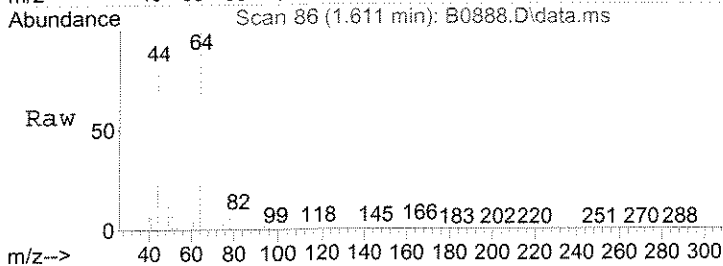
Quant Time: Jul 02 19:33:40 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





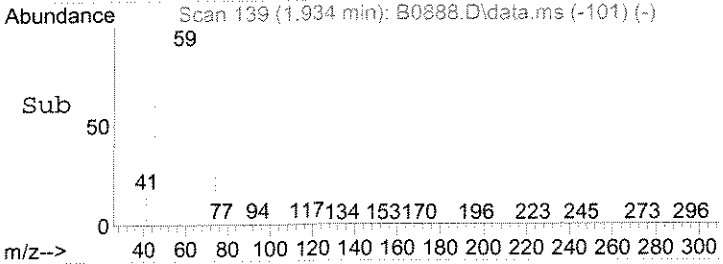
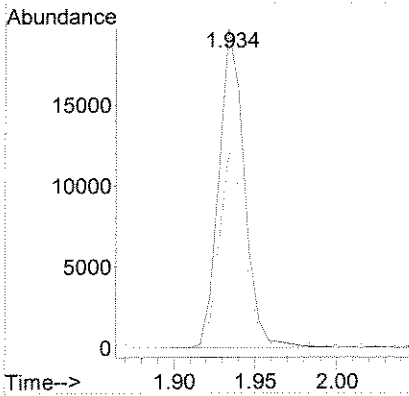
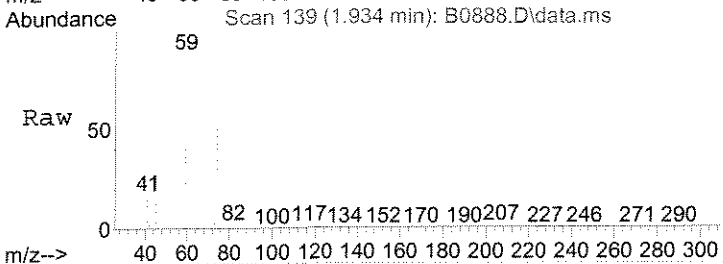
#7
 Chloroethane
 Concen: 0.80 ug/L
 RT: 1.611 min Scan# 86
 Delta R.T. -0.000 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

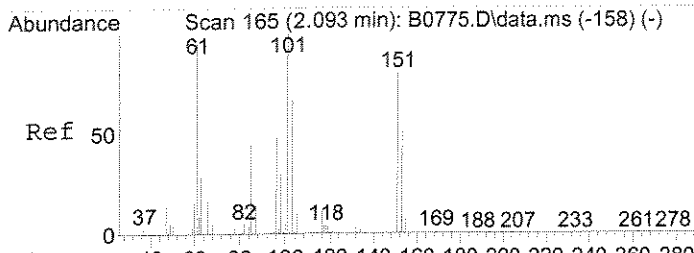
Tgt Ion	Resp	Lower	Upper
64	100		
66	31.5	2.3	62.3



#10
 Diethyl Ether
 Concen: 3.59 ug/L
 RT: 1.934 min Scan# 139
 Delta R.T. -0.000 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

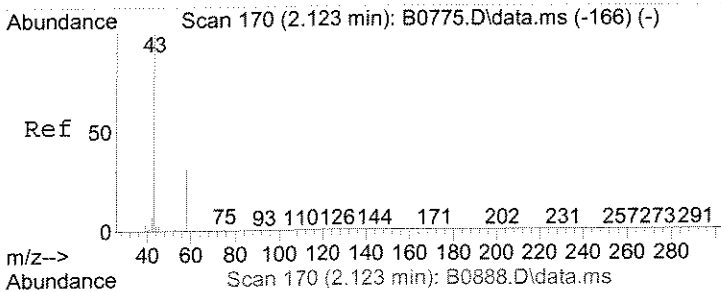
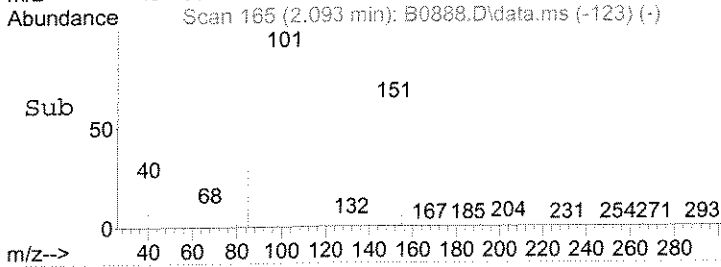
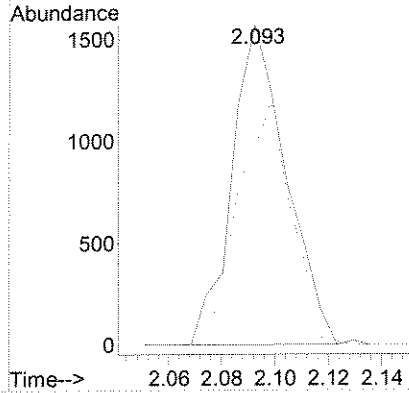
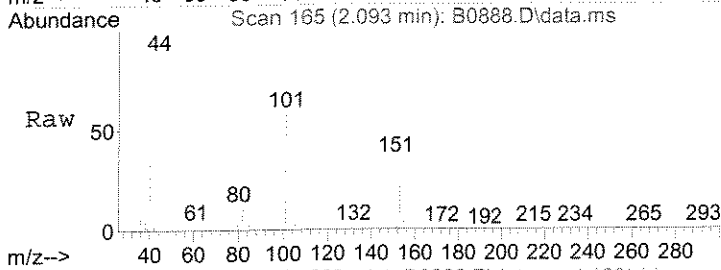
Tgt Ion	Resp	Lower	Upper
59	100		
45	61.5	31.6	94.7
74	65.2	36.7	110.1





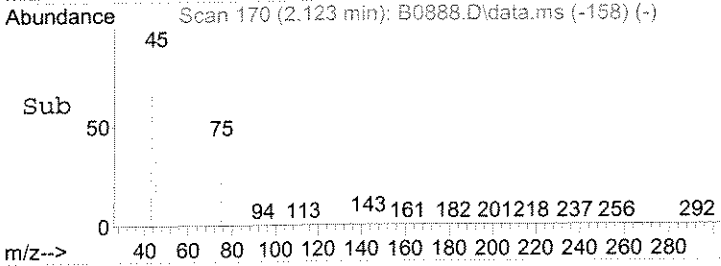
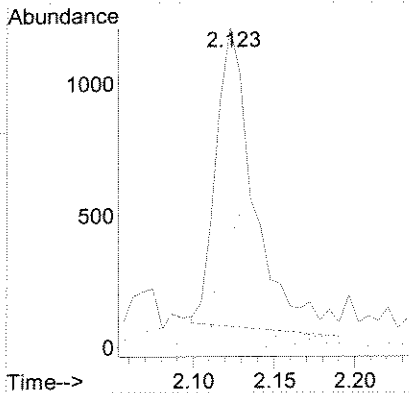
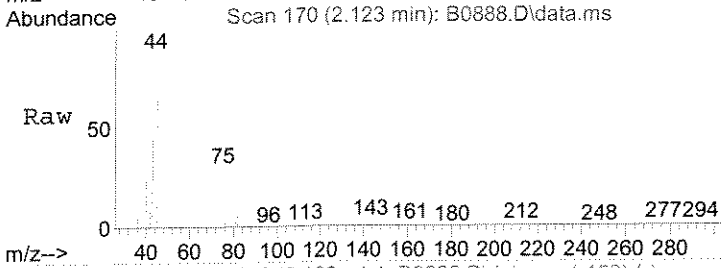
#15
 Freon 113
 Concen: 0.23 ug/L
 RT: 2.093 min Scan# 165
 Delta R.T. -0.000 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

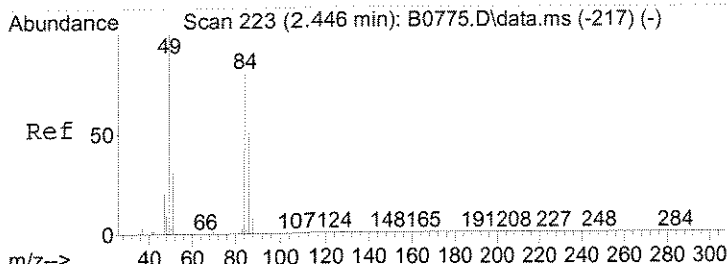
Tgt Ion	Resp	Lower	Upper
101	2217		
101	100		
151	61.5	40.0	119.9



#16
 Acetone
 Concen: 1.15 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

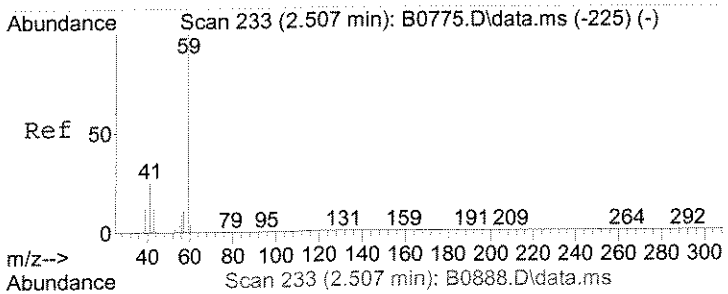
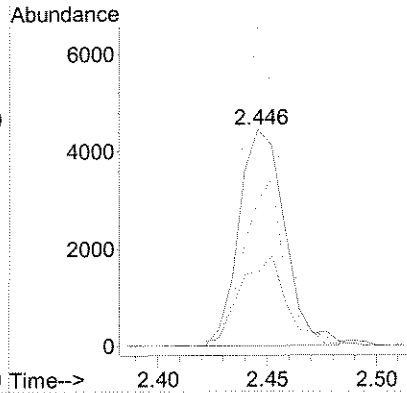
Tgt Ion	Resp	Lower	Upper
43	1886		
43	100		
58	34.2	0.9	60.9
42	19.4	0.0	37.2





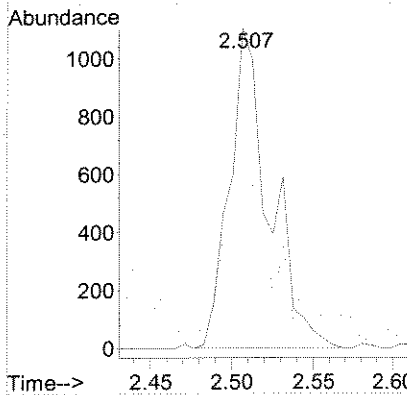
#23
 Methylene Chloride
 Concen: 0.58 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

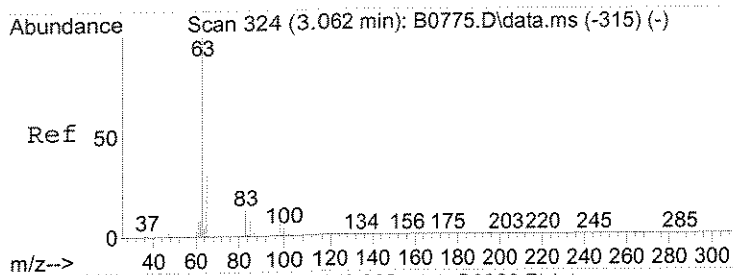
Tgt Ion	Resp	Lower	Upper
84	6462		
84	100		
86	67.1	50.5	75.7
49	148.0	99.5	149.3
51	34.2	31.1	46.7



#24
 TBA
 Concen: 3.40 ug/L m
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

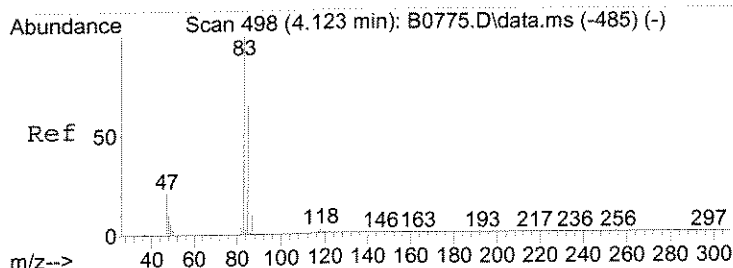
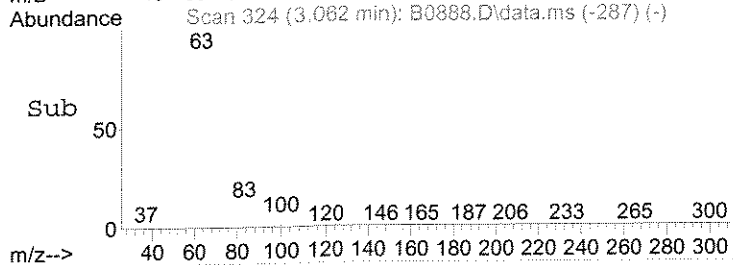
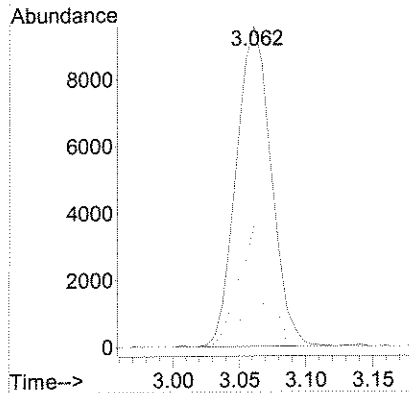
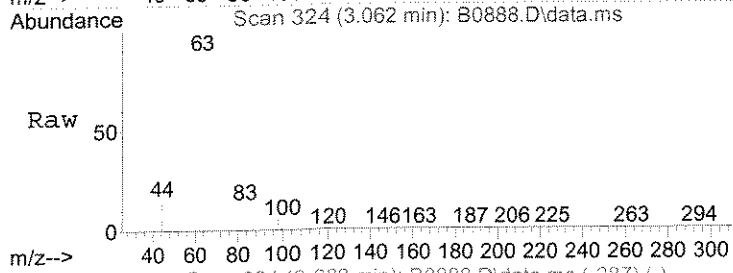
Tgt Ion	Resp	Lower	Upper
59	1875		
59	100		
41	45.1	14.5	43.6#





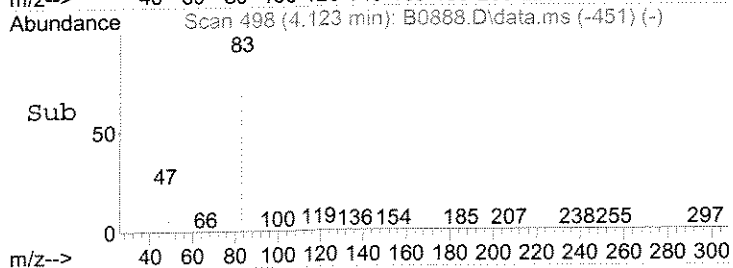
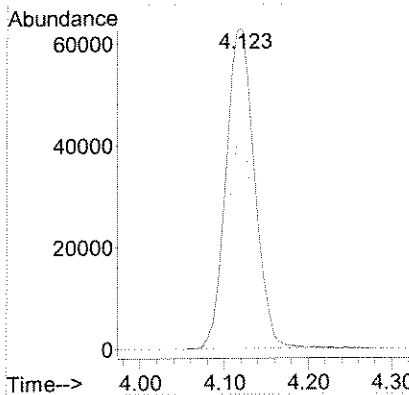
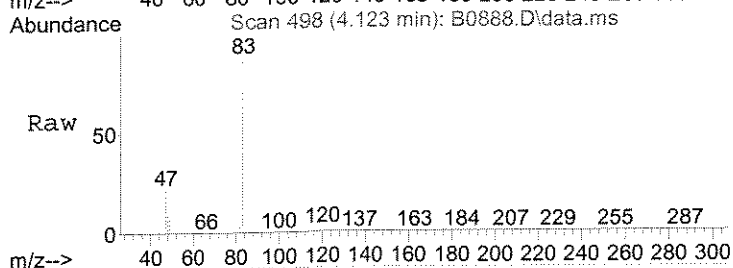
#28
 1,1-Dicloroethane
 Concen: 0.94 ug/L
 RT: 3.062 min Scan# 324
 Delta R.T. -0.000 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

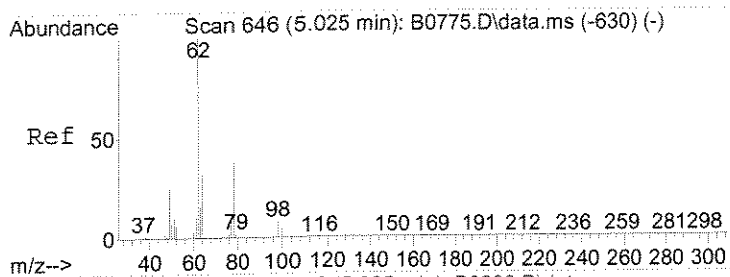
Tgt Ion	Resp	Lower	Upper
63	17623		
65	38.8	24.9	37.3#
83	13.3	10.5	15.7



#41
 Chloroform
 Concen: 7.80 ug/L
 RT: 4.123 min Scan# 498
 Delta R.T. -0.000 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

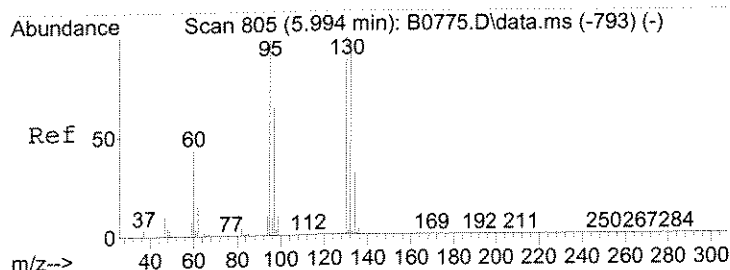
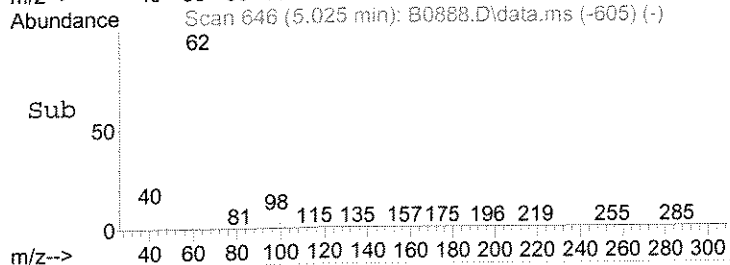
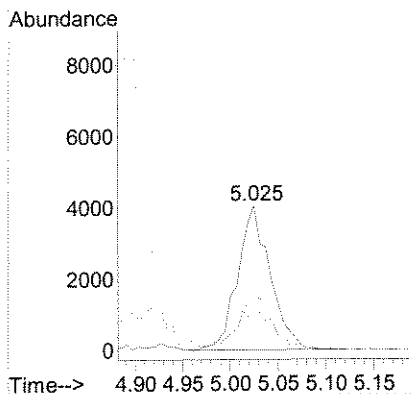
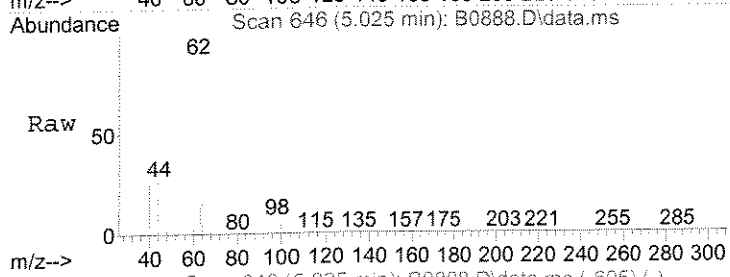
Tgt Ion	Resp	Lower	Upper
83	149840		
85	64.7	51.7	77.5
47	21.8	17.1	25.7





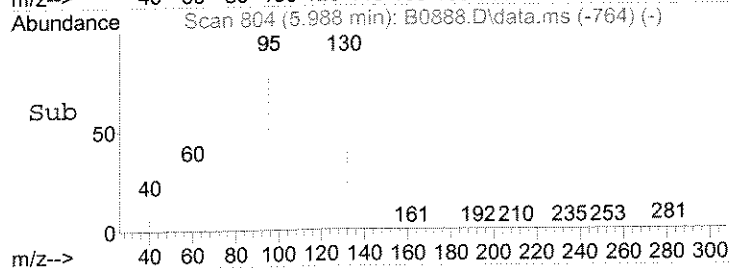
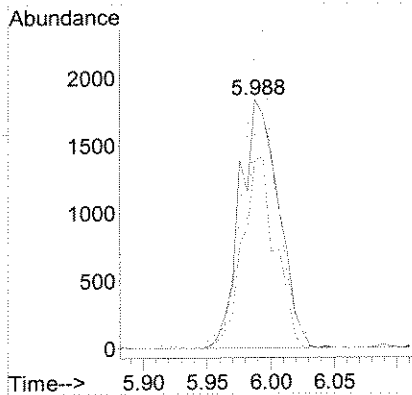
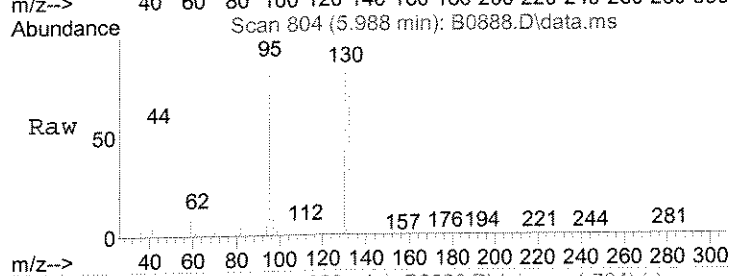
#51
 1,2-Dichloroethane
 Concen: 0.64 ug/L
 RT: 5.025 min Scan# 646
 Delta R.T. -0.000 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

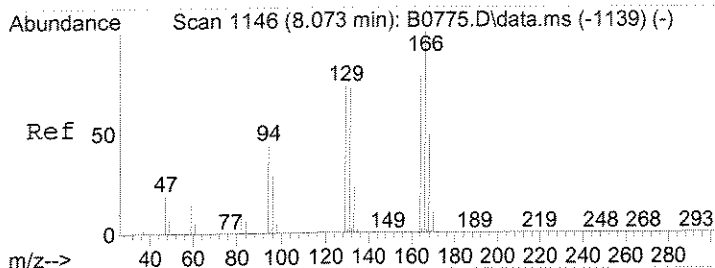
Tgt Ion	Resp	Lower	Upper
62	100		
64	33.0	26.5	39.7
49	28.5	20.2	30.4



#54
 Trichloroethene
 Concen: 0.32 ug/L
 RT: 5.988 min Scan# 804
 Delta R.T. -0.006 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

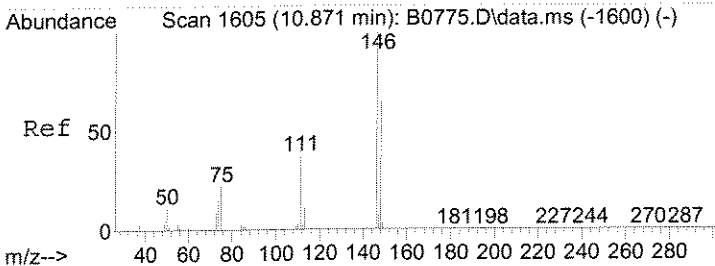
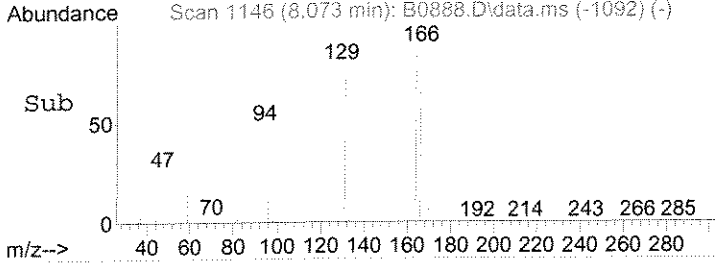
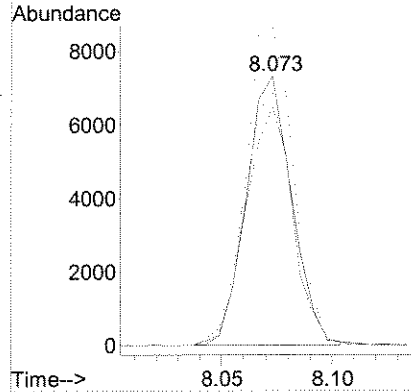
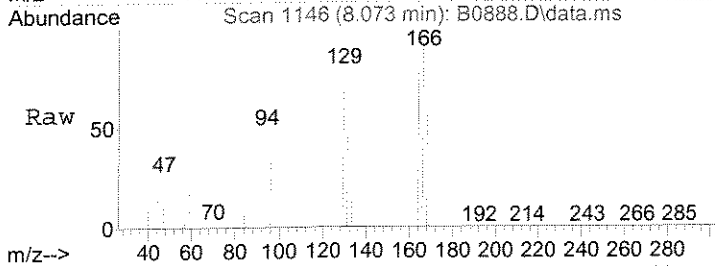
Tgt Ion	Resp	Lower	Upper
130	100		
132	86.5	77.0	115.4
95	119.5	78.6	118.0#
97	75.7	50.9	76.3





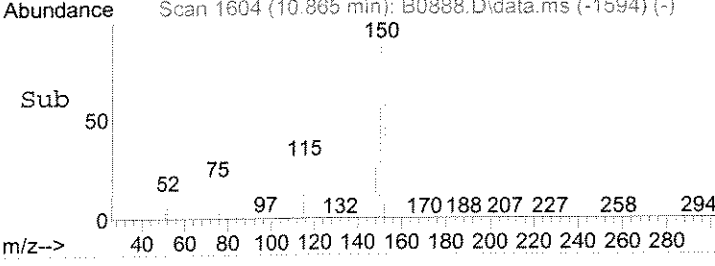
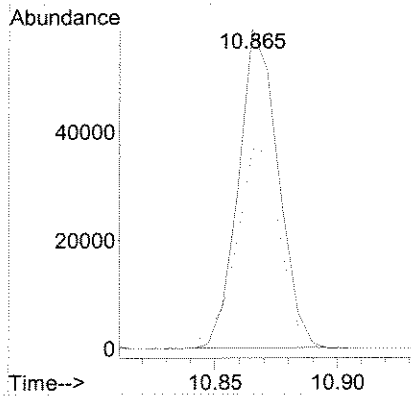
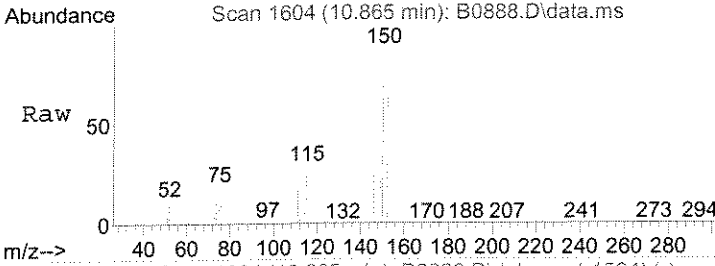
#72
 Tetrachloroethene
 Concen: 1.06 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

Tgt Ion	Resp	Lower	Upper
164	10434		
166	118.8	101.5	152.3
129	94.1	73.8	110.6
131	88.5	72.9	109.3



#101
 1,4-Diclbz
 Concen: 2.38 ug/L
 RT: 10.865 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: B0888.D
 Acq: 2 Jul 2008 7:19 pm

Tgt Ion	Resp	Lower	Upper
146	66167		
148	62.5	51.2	76.8
111	39.3	30.0	45.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : MW-16B

Date Sampled : 06/26/08 14:05 Order #: 1112810 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.4 JB	UG/L
BENZENE	1.0	74	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	2.7 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	230 E	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.7	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	29	UG/L
1,4-DICHLOROBENZENE	2.0	36	UG/L
1,3-DICHLOROBENZENE	2.0	1.6 J	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	3.7	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : MW-16B

Date Sampled : 06/26/08 14:05 Order #: 1112810 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.36 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	0.52 J	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Sample : 1112810 1.0
 Data File : J:\ACQUATA\MSVOA10\DATA\070208\B0889.D Vial: 10
 Acq On : 2 Jul 2008 7:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 02 20:03:36 2008
 Quant Method : J:\ACQUATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.440	168	1321864	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2157278	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1971888	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1068266	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.354	113	685520	48.15	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	96.30%		
49) surr1,1,2-dichloroetha...	4.891	65	735336	54.23	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.46%		
65) SURR3,Toluene-d8	7.451	98	2550507	54.31	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.62%		
70) SURR2,BFB	9.896	95	1031845	53.36	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.72%		
Target Compounds							
							Qvalue
10) Diethyl Ether	1.934	59	174736	29.25	ug/L	97	NT
13) Acrolein	2.026	56	266	0.34	ug/L #	54	
16) Acetone	2.129	43	2216	1.36	ug/L	87	SB
17) 2-Propanol	2.257	45	316	0.91	ug/L	98	
20) Acetonitrile	2.275	40	687	3.01	ug/L #	1	
21) Allyl Chloride	2.275	76	2950	0.59	ug/L #	1	
23) Methylene Chloride	2.446	84	3962	0.36	ug/L	96	J
24) TBA	2.495	59	1492	2.71	ug/L	93	SB
28) 1,1-Dicethane	3.062	63	69675	3.70	ug/L	99	
40) Tetrahydrofuran	4.080	42	599	0.38	ug/L #	45	
41) Chloroform	4.123	83	32112	1.67	ug/L #	92	
50) Benzene	4.988	78	3224209	74.18	ug/L	99	
51) 1,2-Dichloroethane	5.019	62	57570	3.84	ug/L #	57	
62) 2-Chloroethylvinyl Ether	7.079	63	381	Below Cal	#	50	
72) Tetrachloroethene	8.073	164	5095	0.52	ug/L	96	J
77) Chlorobenzene	8.884	112	7451560	227.17	ug/L	98	E
85) Cyclohexanone	9.853	55	485	0.54	ug/L #	82	NT
100) 1,3-Dclbenz	10.798	146	43982	1.63	ug/L	95	J
101) 1,4-Dclbenz	10.871	146	1004890	36.10	ug/L	100	
104) 1,2-Dclbenz	11.164	146	724800	28.61	ug/L	99	
109) Naphthalen	12.383	128	808	0.55	ug/L #	73	CLR

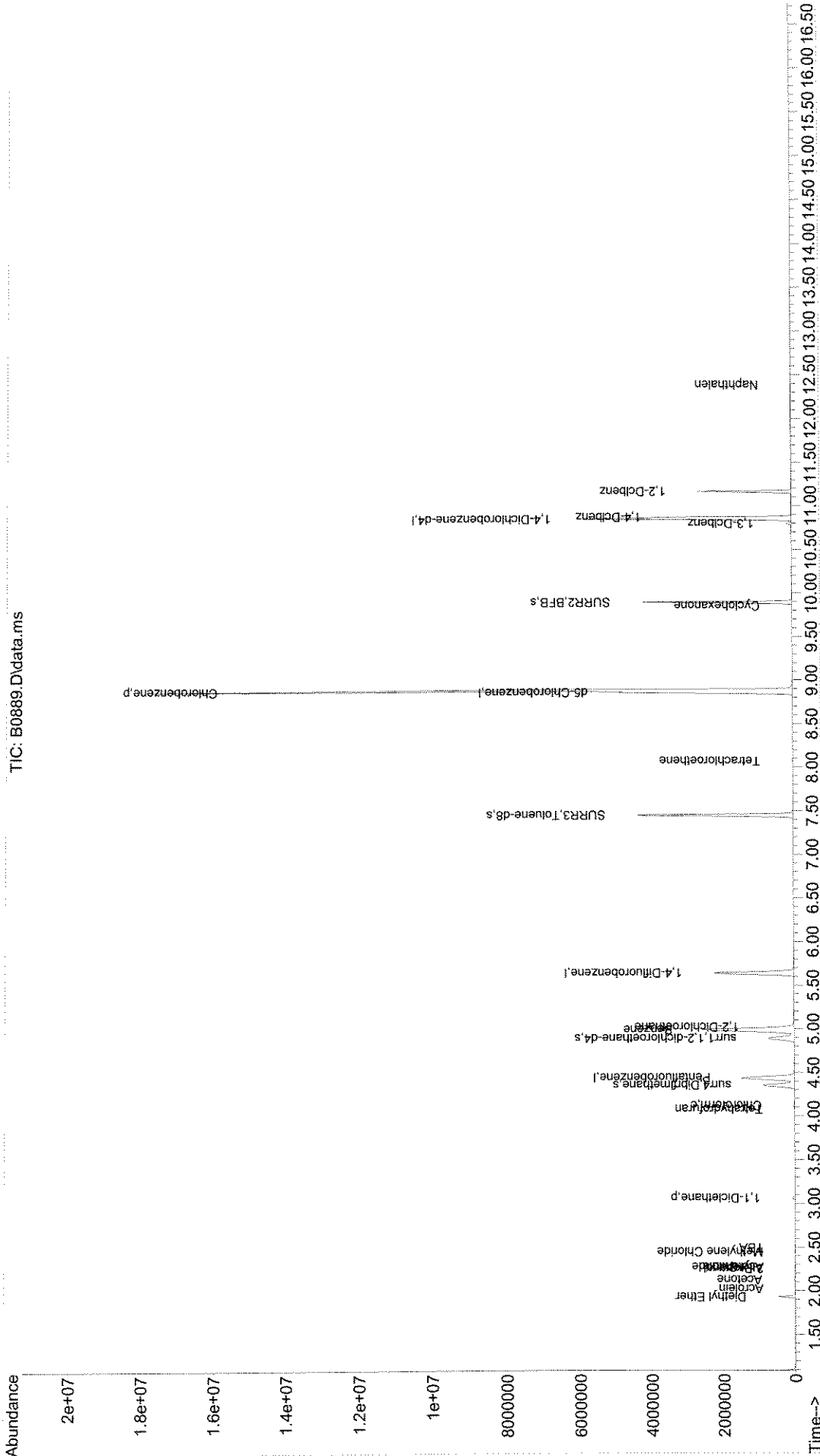
(#) = qualifier out of range (m) = manual integration (+) = signals summed

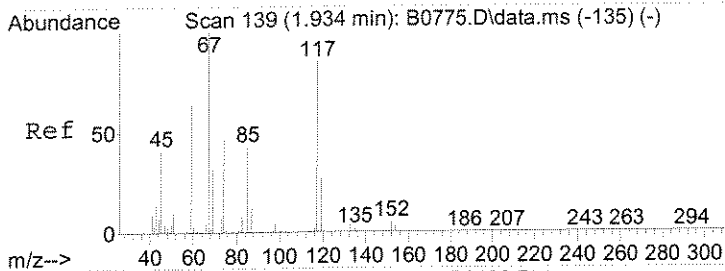
RPT 1/2

FN
7/8/08

Sample : 1112810 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070208\B0889.D Vial: 10
 Acq On : 2 Jul 2008 7:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

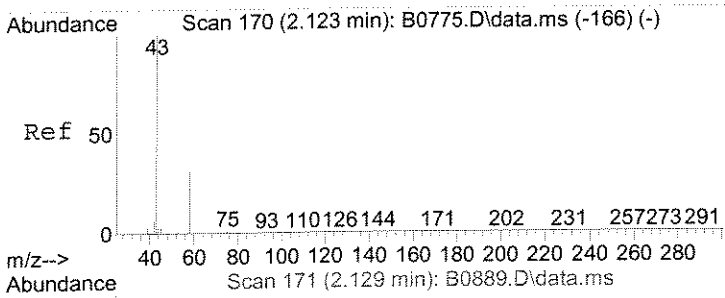
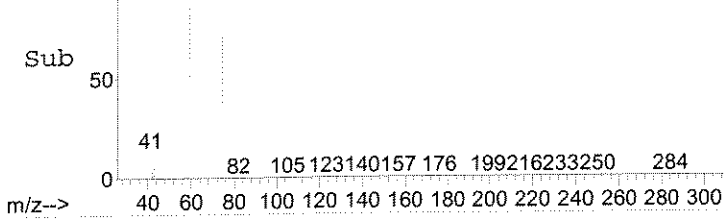
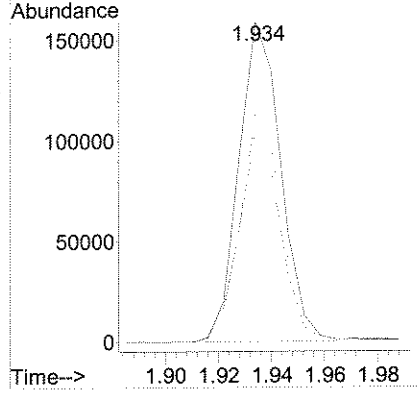
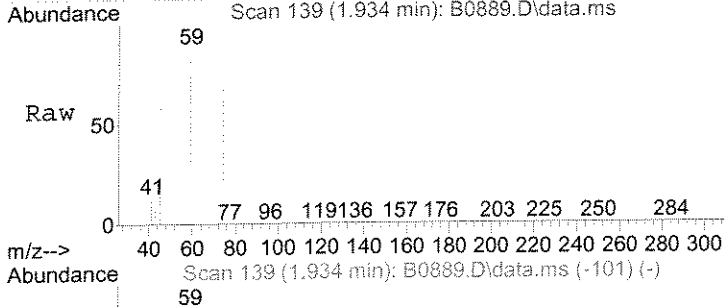
Quant Time: Jul 02 20:03:36 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





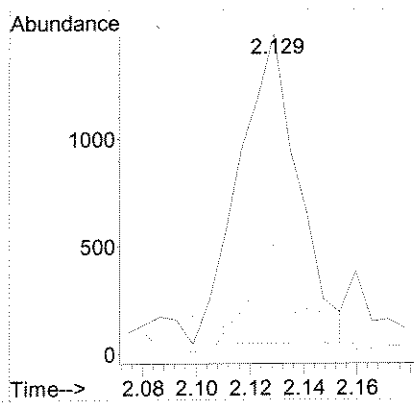
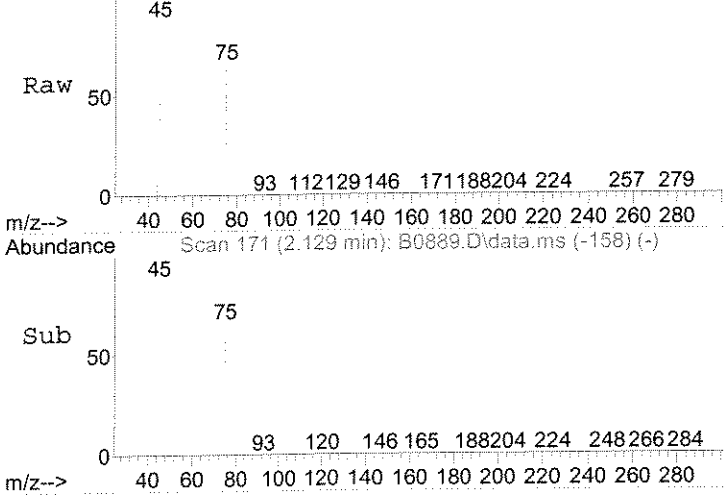
#10
 Diethyl Ether
 Concen: 29.25 ug/L
 RT: 1.934 min Scan# 139
 Delta R.T. -0.000 min
 Lab File: B0889.D
 Acq: 2 Jul 2008 7:49 pm

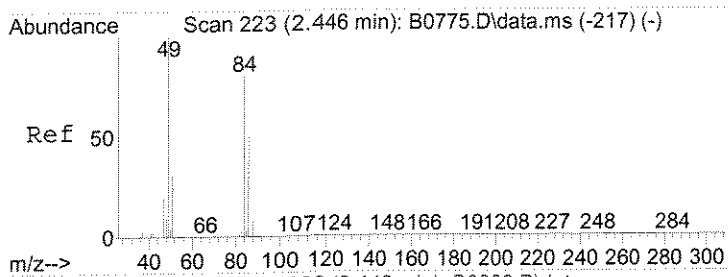
Tgt Ion	Ratio	Lower	Upper
59	100		
45	65.9	31.6	94.7
74	71.4	36.7	110.1



#16
 Acetone
 Concen: 1.36 ug/L
 RT: 2.129 min Scan# 171
 Delta R.T. 0.006 min
 Lab File: B0889.D
 Acq: 2 Jul 2008 7:49 pm

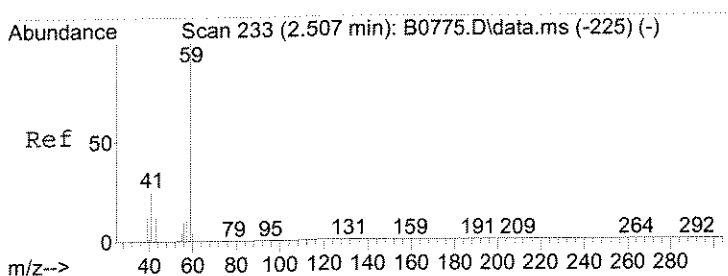
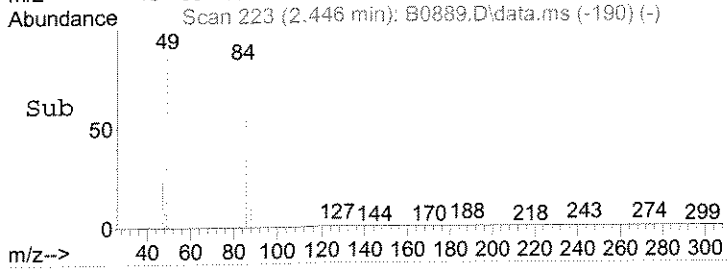
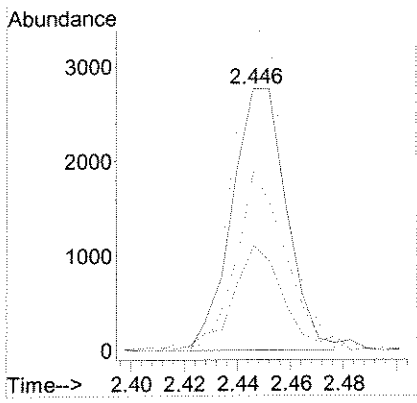
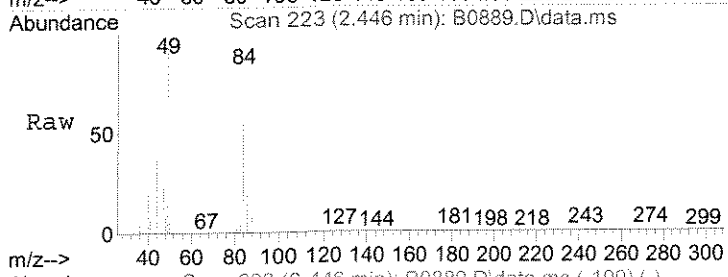
Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.4	0.9	60.9
42	18.2	0.0	37.2





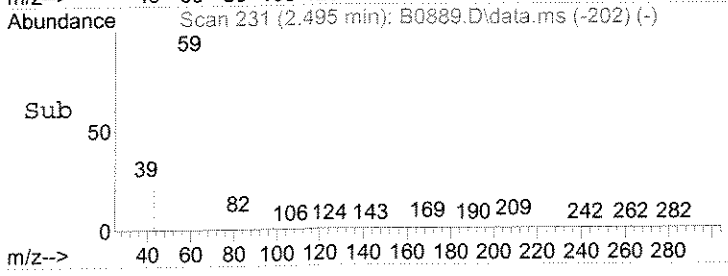
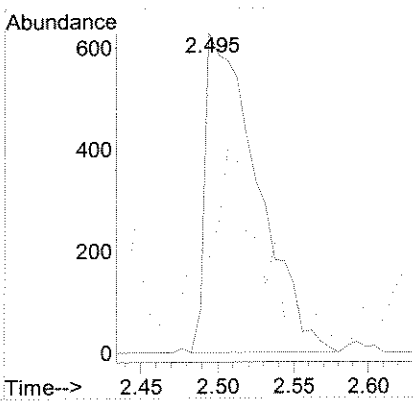
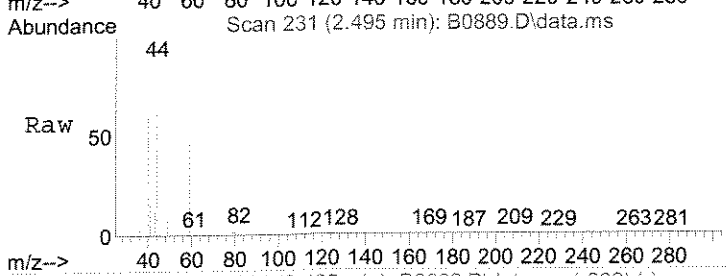
#23
 Methylene Chloride
 Concen: 0.36 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0889.D
 Acq: 2 Jul 2008 7:49 pm

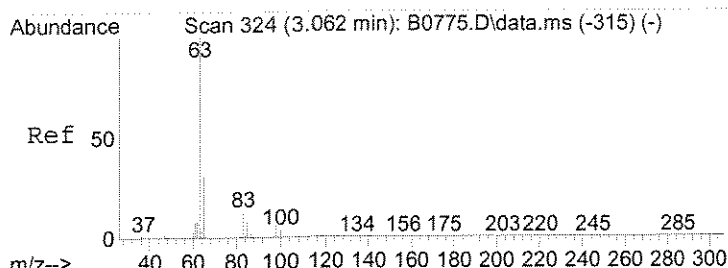
Tgt Ion	Ratio	Resp	Lower	Upper
84	100	3962		
86	68.4		50.5	75.7
49	121.7		99.5	149.3
51	40.2		31.1	46.7



#24
 TBA
 Concen: 2.71 ug/L
 RT: 2.495 min Scan# 231
 Delta R.T. -0.012 min
 Lab File: B0889.D
 Acq: 2 Jul 2008 7:49 pm

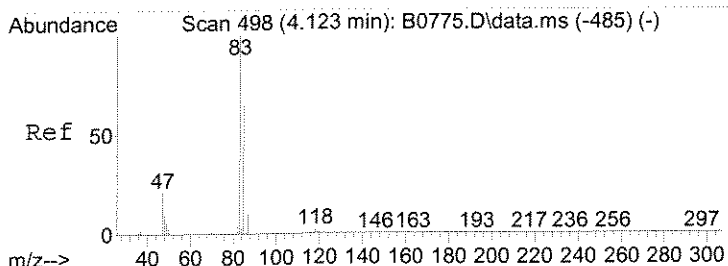
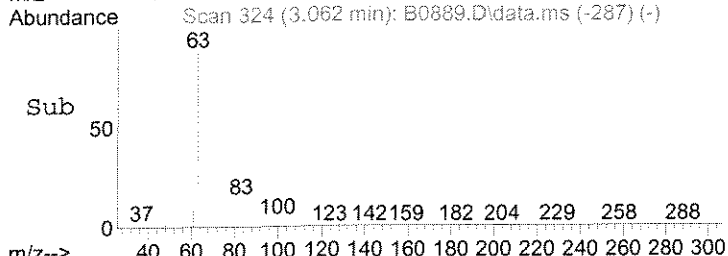
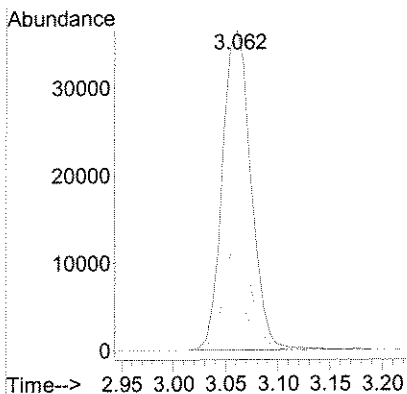
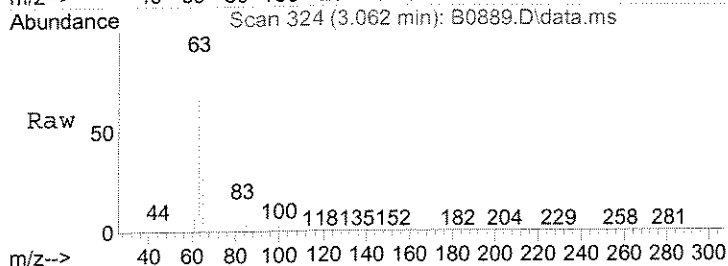
Tgt Ion	Ratio	Resp	Lower	Upper
59	100	1492		
41	33.0		14.5	43.6





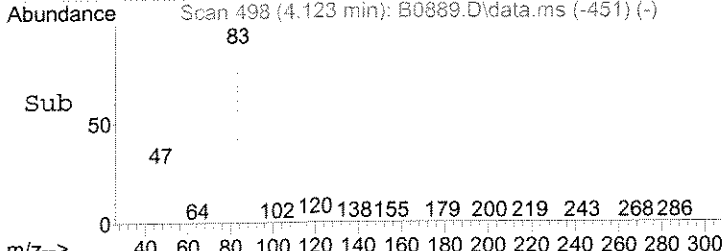
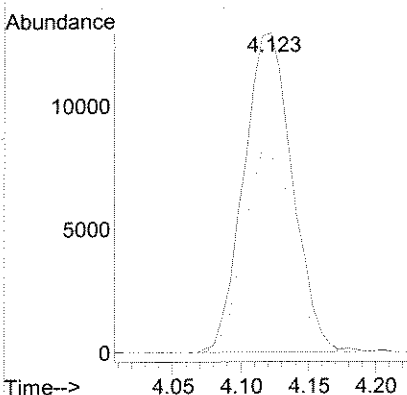
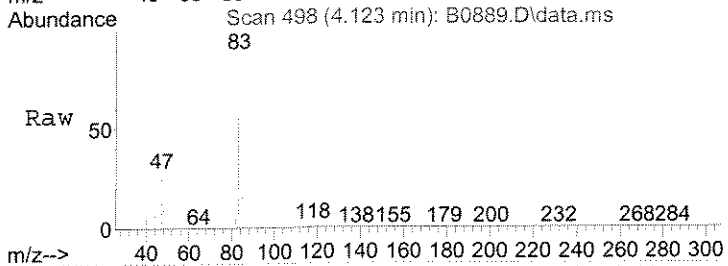
#28
 1,1-Diclcethane
 Concen: 3.70 ug/L
 RT: 3.062 min Scan# 324
 Delta R.T. -0.000 min
 Lab File: B0889.D
 Acq: 2 Jul 2008 7:49 pm

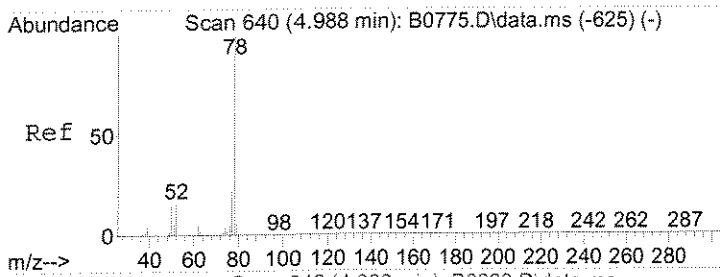
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.9	37.3
83	13.7	10.5	15.7



#41
 Chloroform
 Concen: 1.67 ug/L
 RT: 4.123 min Scan# 498
 Delta R.T. -0.000 min
 Lab File: B0889.D
 Acq: 2 Jul 2008 7:49 pm

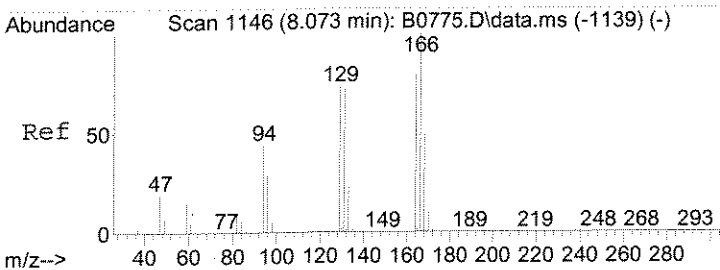
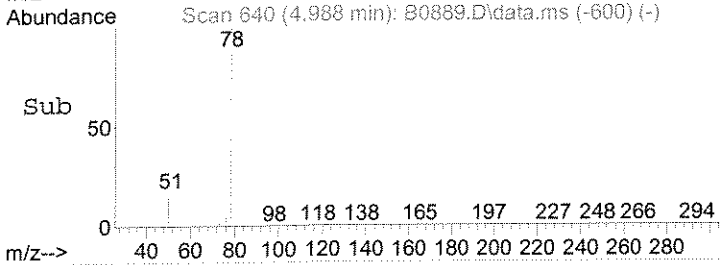
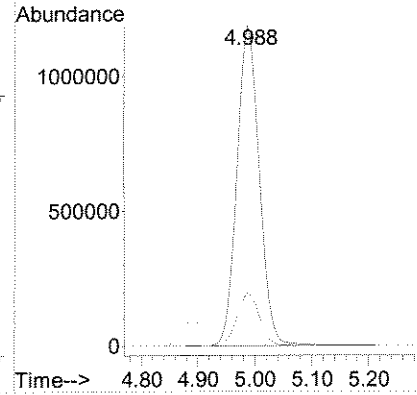
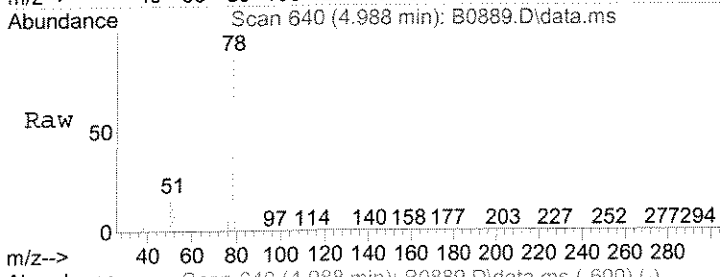
Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.2	51.7	77.5
47	28.1	17.1	25.7#





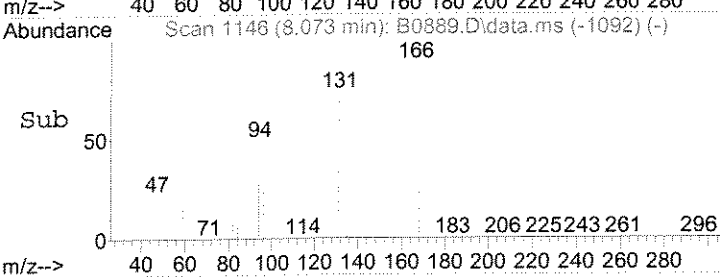
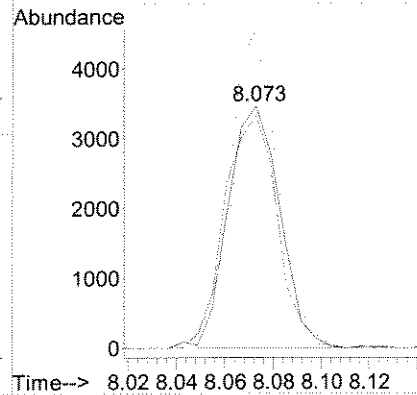
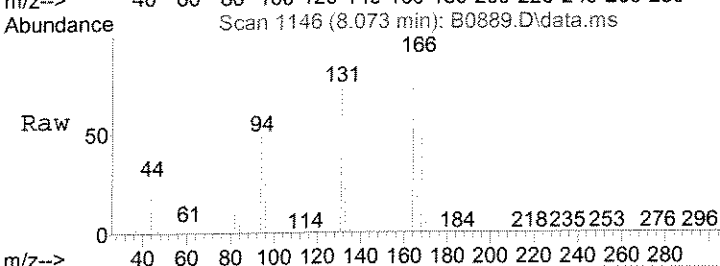
#50
Benzene
Concen: 74.18 ug/L
RT: 4.988 min Scan# 640
Delta R.T. -0.000 min
Lab File: B0889.D
Acq: 2 Jul 2008 7:49 pm

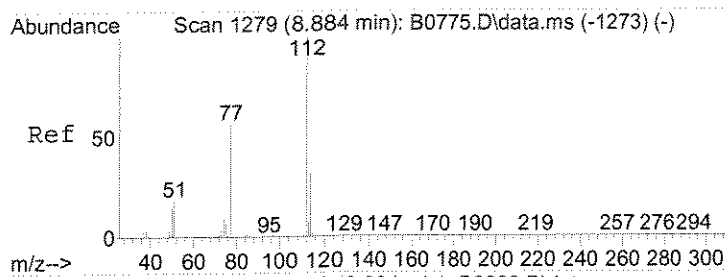
Tgt Ion	Ratio	Lower	Upper
78	100		
51	16.7	13.4	20.2
52	16.2	12.6	18.8



#72
Tetrachloroethene
Concen: 0.52 ug/L
RT: 8.073 min Scan# 1146
Delta R.T. -0.000 min
Lab File: B0889.D
Acq: 2 Jul 2008 7:49 pm

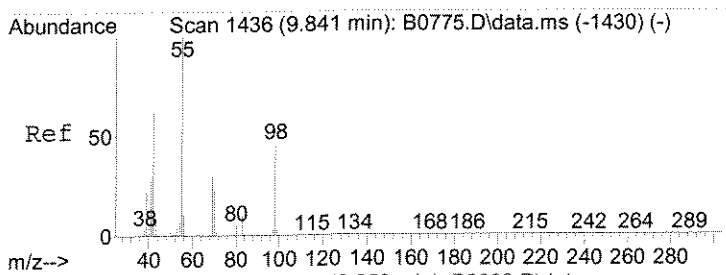
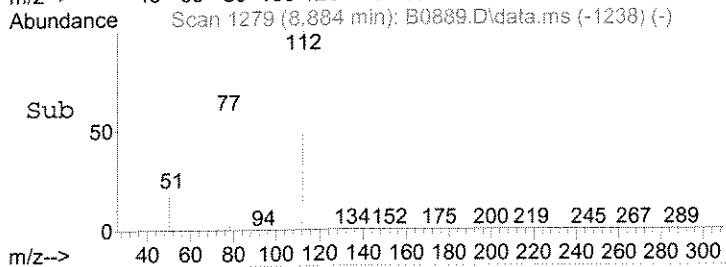
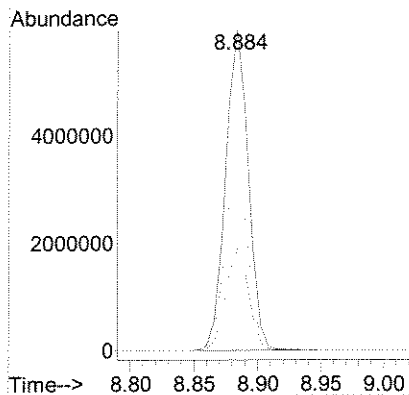
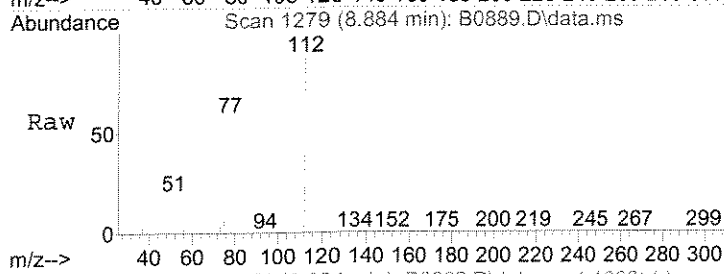
Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.9	101.5	152.3
129	94.0	73.8	110.6
131	96.1	72.9	109.3





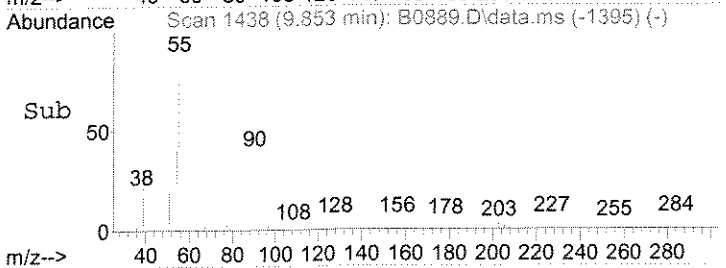
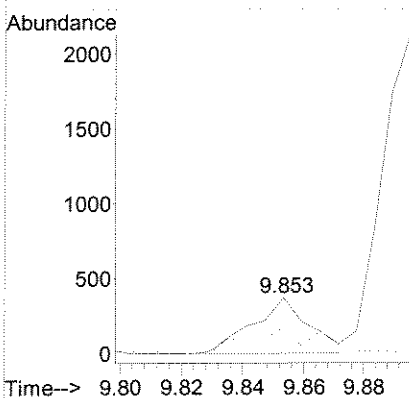
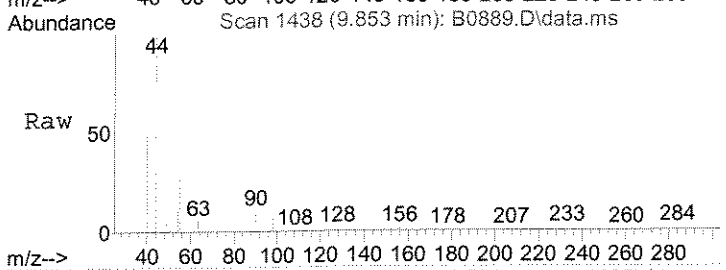
#77
 Chlorobenzene
 Concen: 227.17 ug/L
 RT: 8.884 min Scan# 1279
 Delta R.T. -0.000 min
 Lab File: B0889.D
 Acq: 2 Jul 2008 7:49 pm

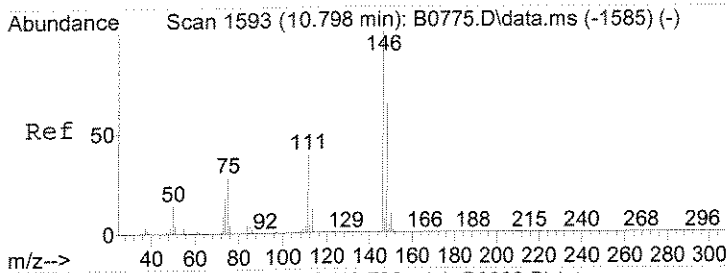
Tgt Ion	Resp	Lower	Upper
112	100		
114	31.9	25.8	38.6
77	57.9	45.0	67.6



#85
 Cyclohexanone
 Concen: 0.54 ug/L
 RT: 9.853 min Scan# 1438
 Delta R.T. 0.012 min
 Lab File: B0889.D
 Acq: 2 Jul 2008 7:49 pm

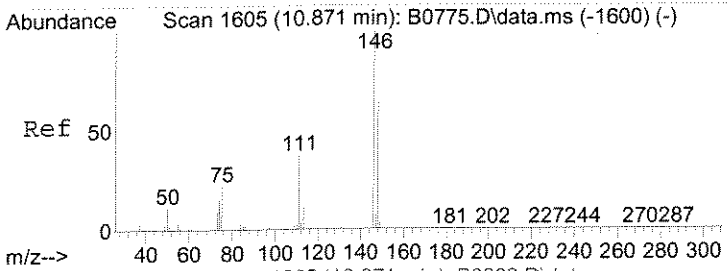
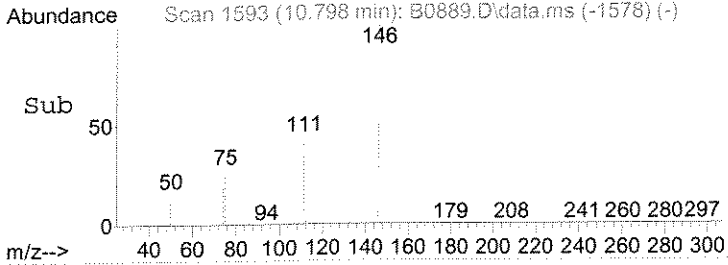
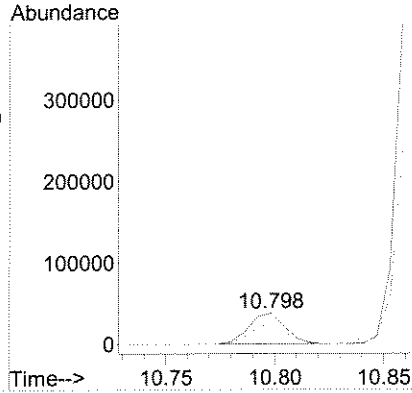
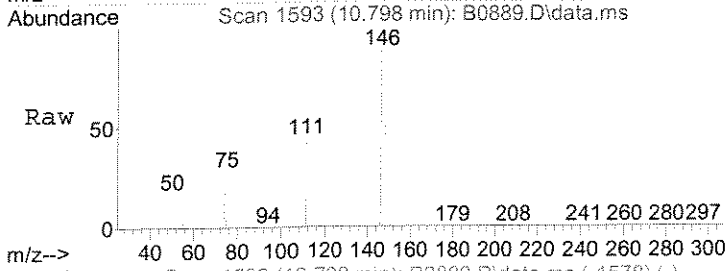
Tgt Ion	Resp	Lower	Upper
55	100		
42	47.7	49.3	73.9#





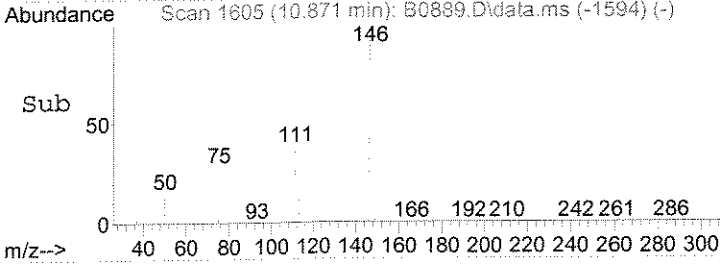
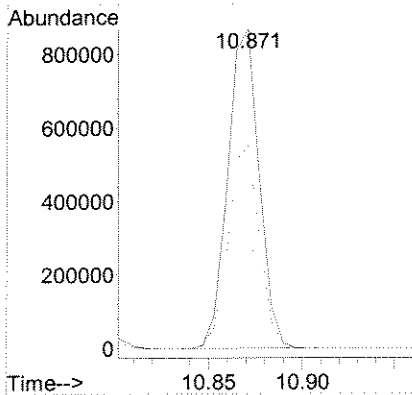
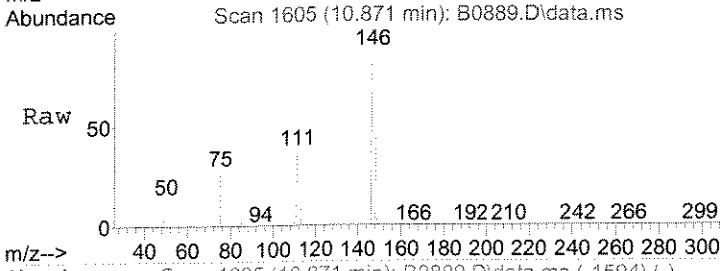
#100
 1,3-Dclbenz
 Concen: 1.63 ug/L
 RT: 10.798 min Scan# 1593
 Delta R.T. -0.000 min
 Lab File: B0889.D
 Acq: 2 Jul 2008 7:49 pm

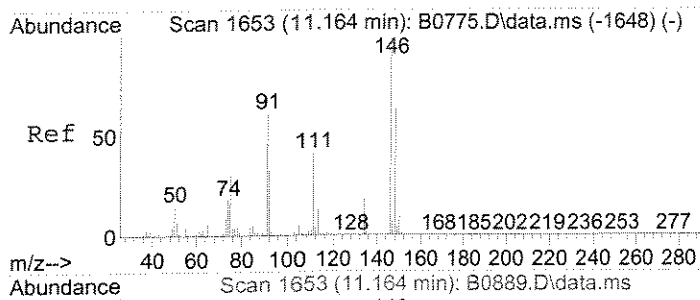
Tgt Ion	Ratio	Lower	Upper
146	100		
148	66.2	51.2	76.8
111	43.8	31.4	47.0



#101
 1,4-Dclbenz
 Concen: 36.10 ug/L
 RT: 10.871 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0889.D
 Acq: 2 Jul 2008 7:49 pm

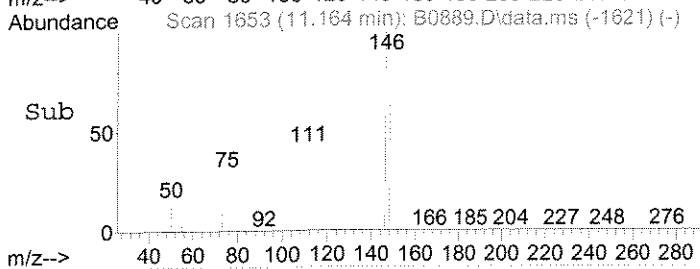
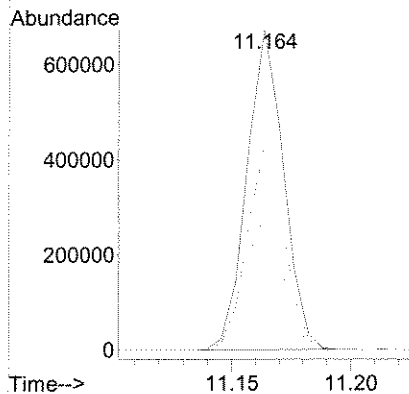
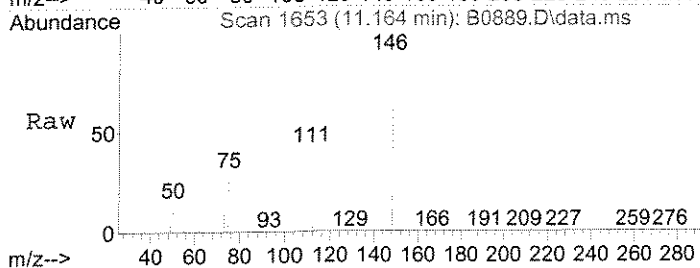
Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.2	76.8
111	37.7	30.0	45.0





#104
 1,2-Dclbenz
 Concen: 28.61 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. -0.000 min
 Lab File: B0889.D
 Acq: 2 Jul 2008 7:49 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.3	75.5
111	42.2	33.0	49.4



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
 Client Sample ID : MW-16B

Date Sampled : 06/26/08 14:05 Order #: 1112810 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	2.00		
ACETONE	20	5.0 JD	UG/L
BENZENE	1.0	70 D	UG/L
BROMOBENZENE	2.0	4.0 U	UG/L
BROMOCHLOROMETHANE	2.0	4.0 U	UG/L
BROMODICHLOROMETHANE	1.0	2.0 U	UG/L
BROMOFORM	1.0	2.0 U	UG/L
BROMOMETHANE	2.0	4.0 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
TERT-BUTYL ALCOHOL	100	17 JDB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	2.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	2.0 U	UG/L
TERT-BUTYLBENZENE	2.0	4.0 U	UG/L
SEC-BUTYLBENZENE	2.0	4.0 U	UG/L
N-BUTYLBENZENE	5.0	10 U	UG/L
CARBON TETRACHLORIDE	1.0	2.0 U	UG/L
CHLOROBENZENE	1.0	190 D	UG/L
CHLOROETHANE	2.0	4.0 U	UG/L
CHLOROFORM	1.0	2.8 D	UG/L
CHLOROMETHANE	2.0	4.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	0.44 JD	UG/L
2-CHLOROTOLUENE	5.0	10 U	UG/L
4-CHLOROTOLUENE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	1.0	2.0 U	UG/L
1,2-DIBROMOETHANE	1.0	2.0 U	UG/L
DIBROMOMETHANE	1.0	2.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	22 D	UG/L
1,4-DICHLOROBENZENE	2.0	29 D	UG/L
1,3-DICHLOROBENZENE	2.0	1.6 JD	UG/L
DICHLORODIFLUOROMETHANE	1.0	2.0 U	UG/L
1,1-DICHLOROETHANE	1.0	4.5 D	UG/L
1,2-DICHLOROETHANE	1.0	2.2 D	UG/L
1,1-DICHLOROETHENE	1.0	2.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	2.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	2.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	4.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	2.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	4.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	4.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	2.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	2.0 U	UG/L
ETHYLBENZENE	1.0	2.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	1.3 JD	UG/L
2-HEXANONE	10	20 U	UG/L
DI-ISOPROPYL ETHER	1.0	2.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : MW-16B

Date Sampled : 06/26/08 14:05 Order #: 1112810 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	2.00		
ISOPROPYLBENZENE	2.0	4.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	4.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	2.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.62 JD	UG/L
NAPHTHALENE	2.0	4.0 U	UG/L
4-METHYL-2-PENTANONE	10	20 U	UG/L
N-PROPYLBENZENE	2.0	4.0 U	UG/L
STYRENE	1.0	2.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	2.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	2.0 U	UG/L
TETRACHLOROETHENE	1.0	0.70 JD	UG/L
TOLUENE	1.0	2.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	0.56 JD	UG/L
1,2,3-TRICHLOROBENZENE	2.0	0.64 JD	UG/L
1,1,1-TRICHLOROETHANE	1.0	2.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	2.0 U	UG/L
TRICHLOROETHENE	1.0	2.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	2.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	4.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	4.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	4.0 U	UG/L
VINYL CHLORIDE	1.0	2.0 U	UG/L
M+P-XYLENE	2.0	4.0 U	UG/L
O-XYLENE	1.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Sample : 1112810 2.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0905.D Vial: 4
 Acq On : 3 Jul 2008 2:27 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

DL

Quant Time: Jul 03 14:41:38 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.440	168	1415027	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	2287103	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	2095511	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1133494	50.00	ug/L	0.00

System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	723767	47.89	ug/L	0.00
Spiked Amount	50.000		Recovery	=	95.78%	
49) surr1,1,2-dichloroetha...	4.891	65	753420	52.41	ug/L	0.00
Spiked Amount	50.000		Recovery	=	104.82%	
65) SURR3,Toluene-d8	7.452	98	2700634	54.25	ug/L	0.00
Spiked Amount	50.000		Recovery	=	108.50%	
70) SURR2,BFB	9.896	95	1091335	53.23	ug/L	0.00
Spiked Amount	50.000		Recovery	=	106.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue	Notes
10) Diethyl Ether	1.934	59	84929	13.28	ug/L	96	NT
13) Acrolein	2.026	56	250	0.30	ug/L	66	
15) Freon 113	2.093	101	2528	0.25	ug/L	96	NT
16) Acetone	2.123	43	4368	2.50	ug/L	91	JD
17) 2-Propanol	2.203	45	3410	9.18	ug/L #	84	NT
20) Acetonitrile	2.324	40	641	2.62	ug/L #	2	
21) Allyl Chloride	2.276	76	4108	0.77	ug/L #	1	
23) Methylene Chloride	2.446	84	3648	0.31	ug/L #	90	JD
24) TBA	2.507	59	4908	8.33	ug/L	79	JD
25) Acrylonitrile	2.641	53	941	0.39	ug/L	72	NT
28) 1,1-Diclcethane	3.062	63	45367	2.25	ug/L	97	D
37) Propionitrile	3.800	54	437	0.48	ug/L #	78	
40) Tetrahydrofuran	4.068	42	1720	1.02	ug/L #	70	NT
41) Chloroform	4.123	83	28654	1.40	ug/L	95	
50) Benzene	4.989	78	1616093	35.07	ug/L	99	JD
51) 1,2-Dichloroethane	5.019	62	175030040	1.89	ug/L #	69	
53) n-Heptane	5.476	43	2873	0.30	ug/L #	79	
58) 1,4-Dioxane	6.482	88	987	10.77	ug/L	92	NT
59) Methyl Methacrylate	6.494	69	251	1.50	ug/L #	70	
68) Ethyl Methacrylate	7.890	69	298	1.58	ug/L	93	NT
72) Tetrachloroethene	8.073	164	3704	0.35	ug/L #	81	JD
77) Chlorobenzene	8.884	112	3281543	94.14	ug/L	100	D
85) Cyclohexanone	9.847	55	2973	3.13	ug/L	98	NT
100) 1,3-Dclbenz	10.792	146	23177	0.81	ug/L	98	JD
101) 1,4-Dclbenz	10.872	146	422706	14.31	ug/L	100	
104) 1,2-Dclbenz	11.164	146	301450	11.21	ug/L	98	JD
105) 1,2-Dibromo-3-chloropr...	11.719	157	492	0.22	ug/L #	62	
107) 1,2,4-Tcbenzene	12.237	180	5169	0.28	ug/L #	96	JD
108) Hexachlorobt	12.335	225	4656	0.63	ug/L	89	
109) Naphthalen	12.377	128	9713	0.77	ug/L #	94	
110) 1,2,3-Tclbenzene	12.512	180	5385	0.32	ug/L	92	JD

} Probable carry-over

(#) = qualifier out of range (m) = manual integration (+) = signals summed

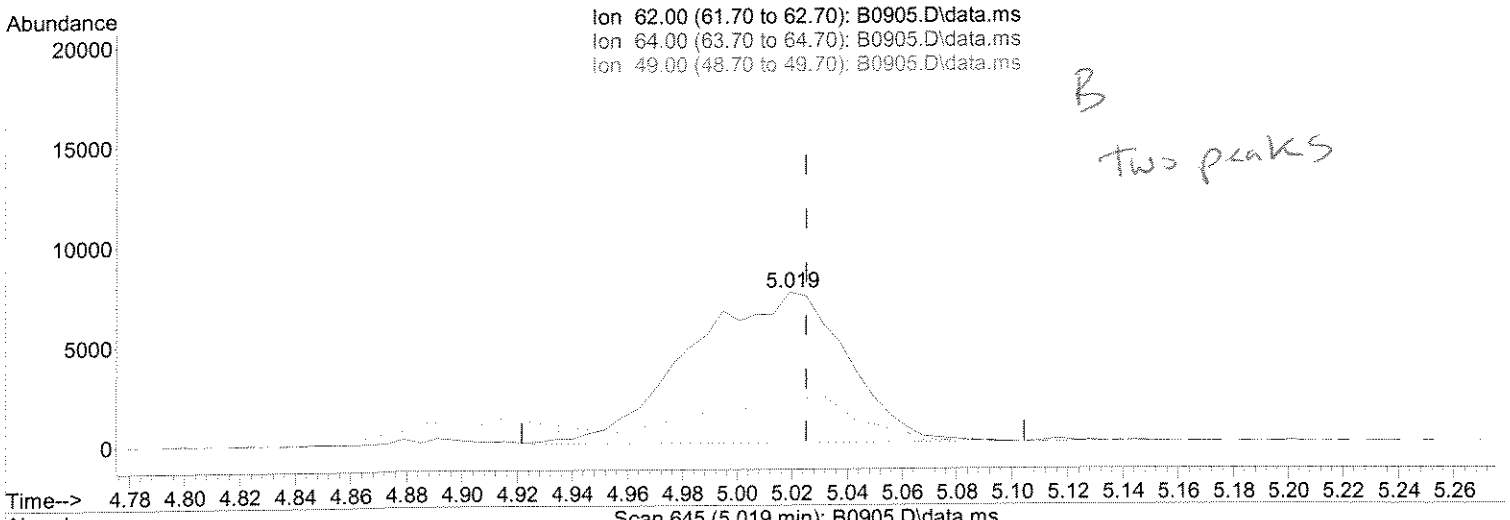
FN 7/11/08

Quantitation Report (Qedit)

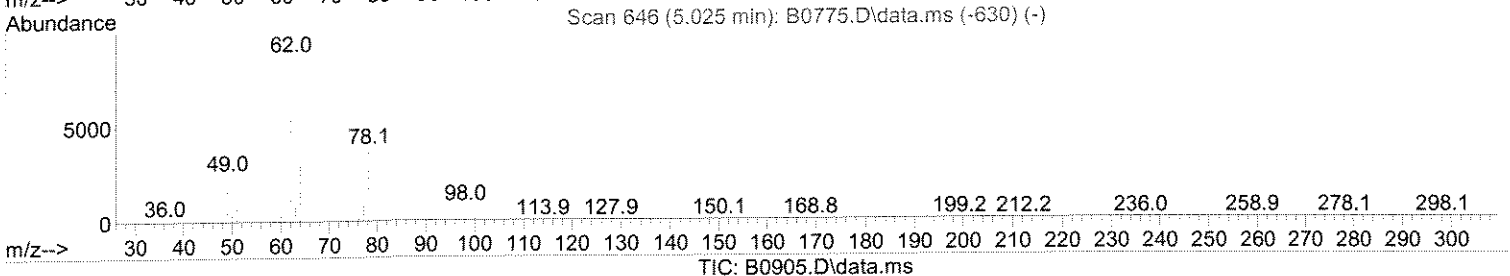
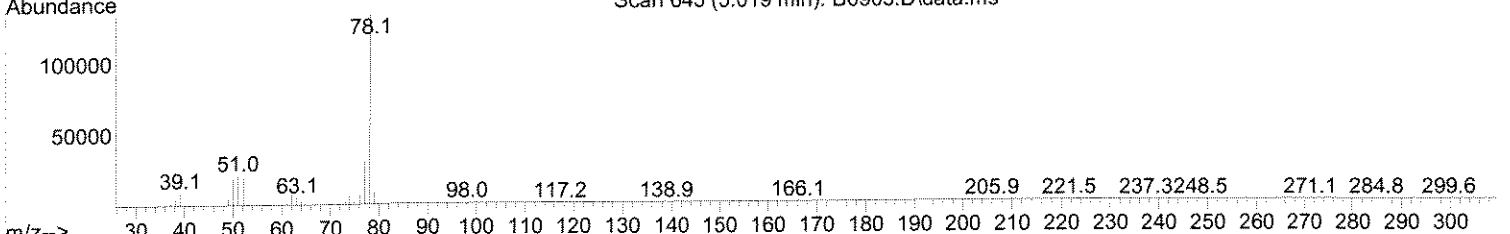
Sample : 1112810 2.0
 Data File : J:\ACQUDATA\msvoa10\data\070308\B0905.D Vial: 4
 Acq On : 3 Jul 2008 2:27 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 11 16:05:52 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FW 7/17/08



B
Two peaks



(51) 1,2-Dichloroethane
 5.019min (-0.006) 1.89 ug/L
 response 30040

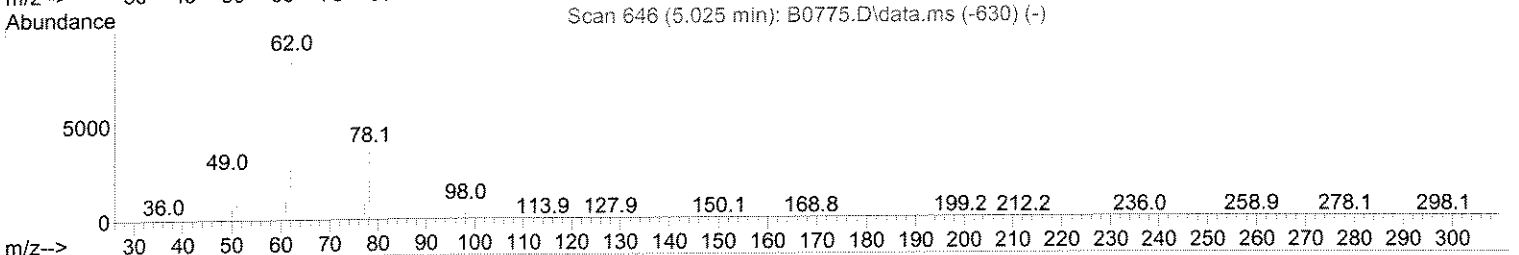
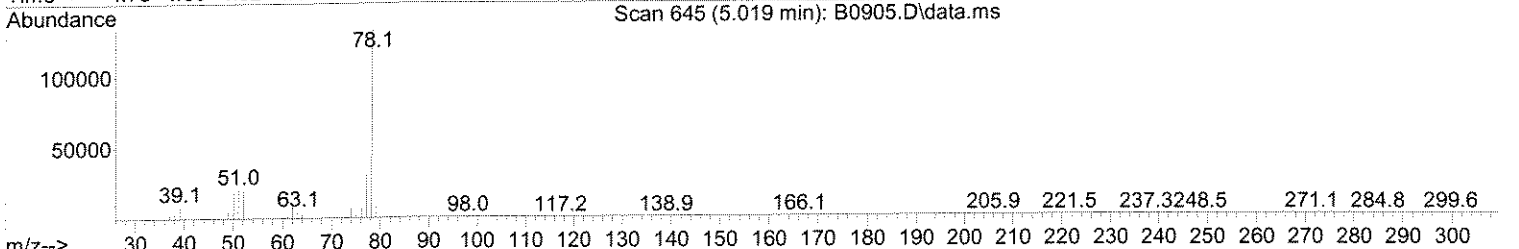
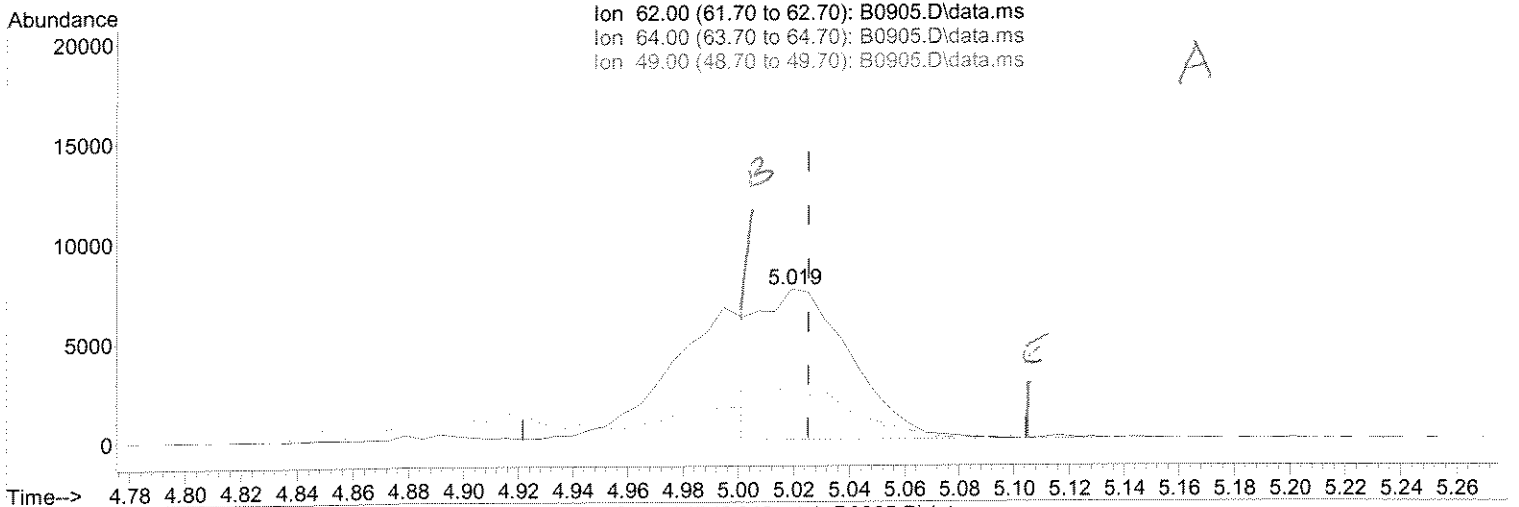
Ion	Exp%	Act%
62.00	100	100
64.00	33.10	35.34
49.00	25.30	58.68#
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 1112810 2.0
 Data File : J:\ACQUDATA\msvoa10\data\070308\B0905.D Vial: 4
 Acq On : 3 Jul 2008 2:27 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 11 16:05:52 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FW 7/17/08

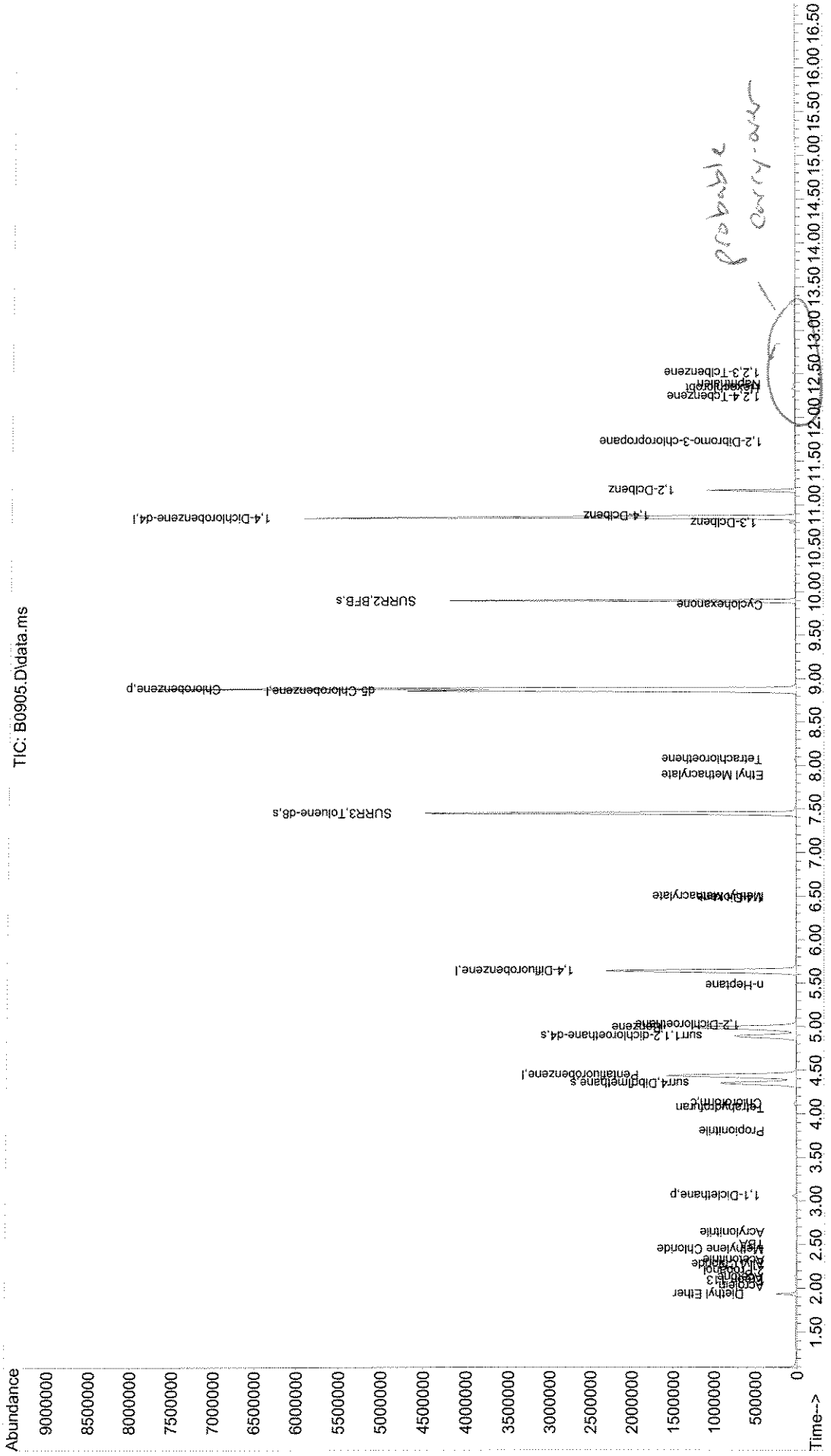


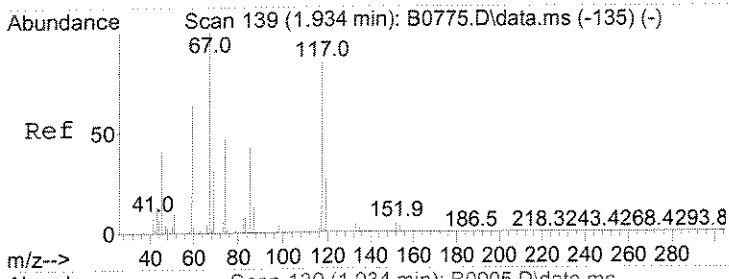
(51) 1,2-Dichloroethane
 5.019min (-0.006) 1.09 ug/L m
 response 17390

Ion	Exp%	Act%
62.00	100	100
64.00	33.10	35.34
49.00	25.30	58.68#
0.00	0.00	0.00

Sample : 1112810 2.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0905.D Vial: 4
 Acq On : 3 Jul 2008 2:27 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

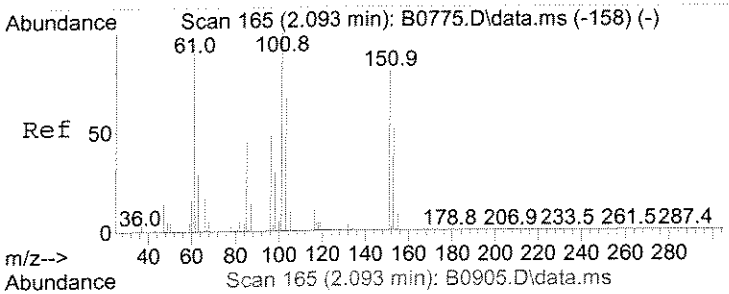
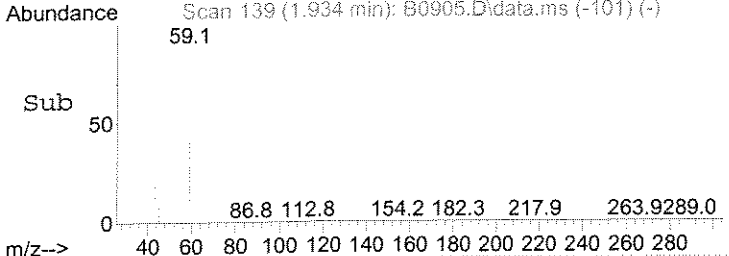
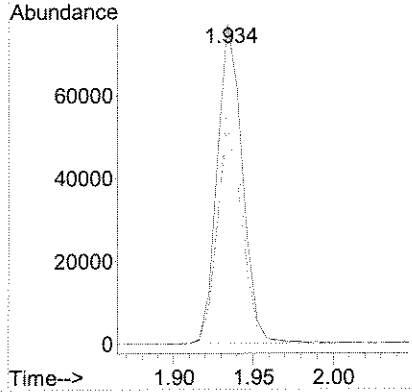
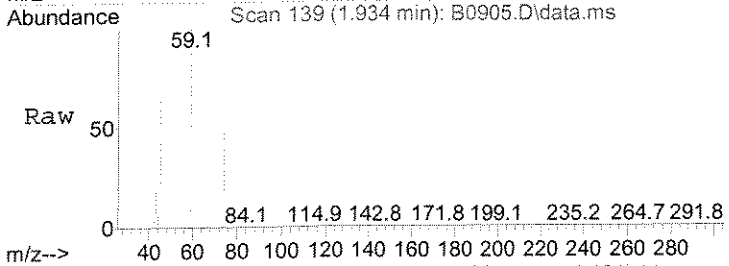
Quant Time: Jul 03 14:41:38 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





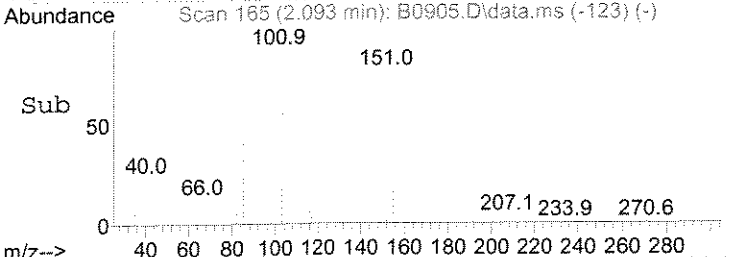
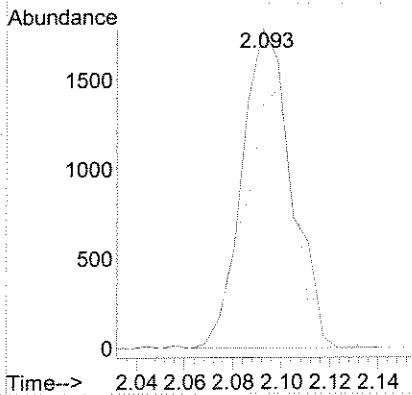
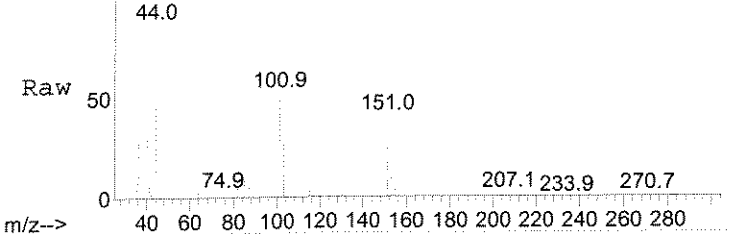
#10
 Diethyl Ether
 Concen: 13.28 ug/L
 RT: 1.934 min Scan# 139
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

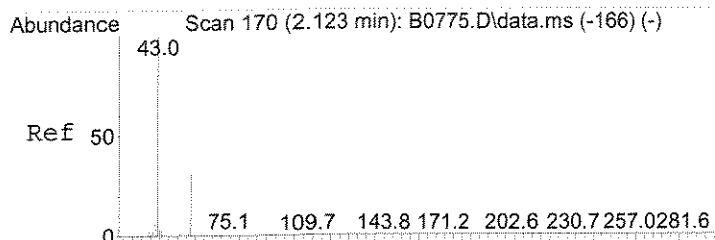
Tgt Ion	Resp	Lower	Upper
59	100		
45	68.0	31.6	94.7
74	75.3	36.7	110.1



#15
 Freon 113
 Concen: 0.25 ug/L
 RT: 2.093 min Scan# 165
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

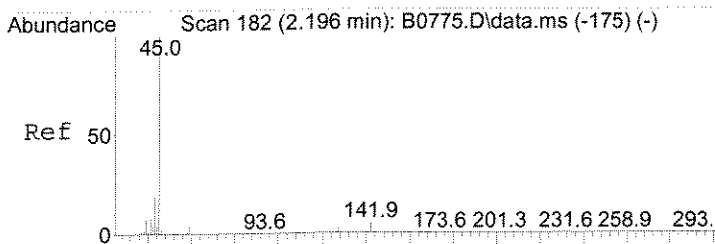
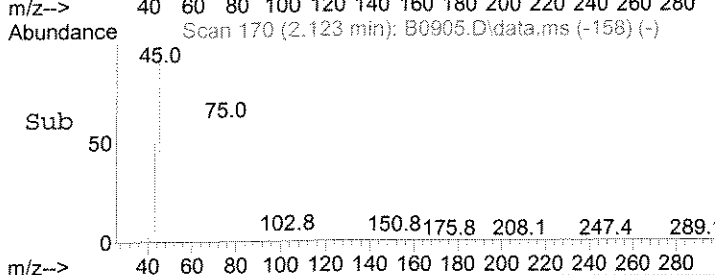
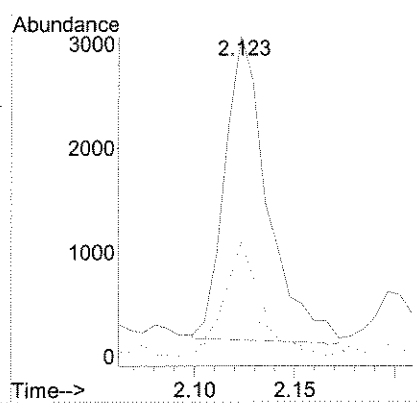
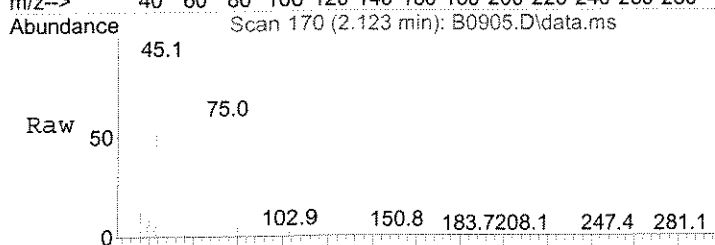
Tgt Ion	Resp	Lower	Upper
101	100		
151	76.2	40.0	119.9





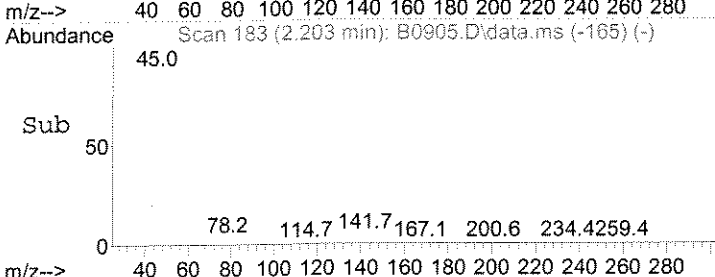
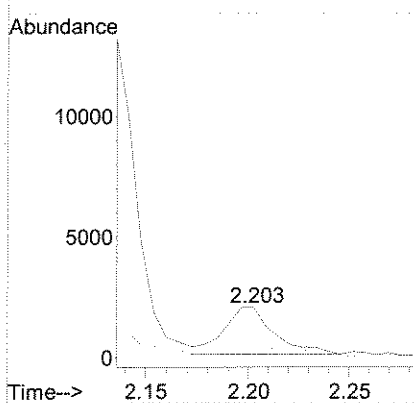
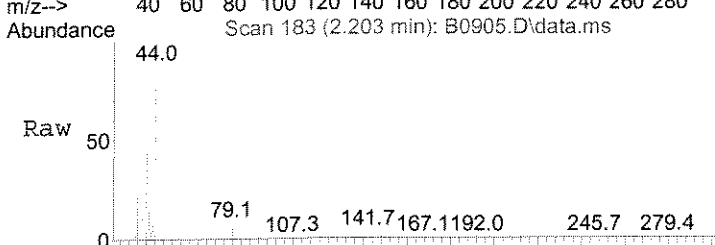
#16
 Acetone
 Concen: 2.50 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

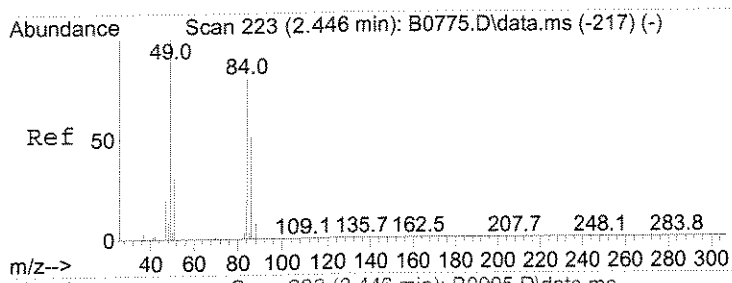
Tgt Ion	Resp	Lower	Upper
43	4368		
43	100		
58	35.9	0.9	60.9
42	10.6	0.0	37.2



#17
 2-Propanol
 Concen: 9.18 ug/L
 RT: 2.203 min Scan# 183
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

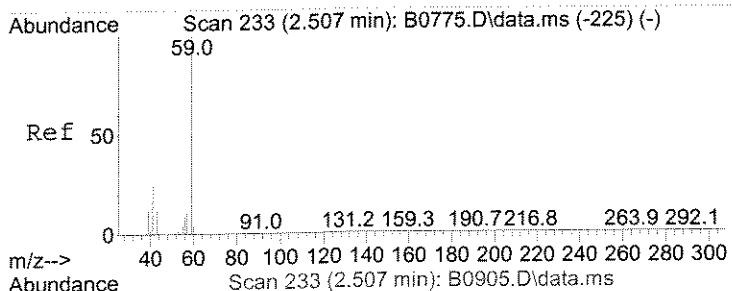
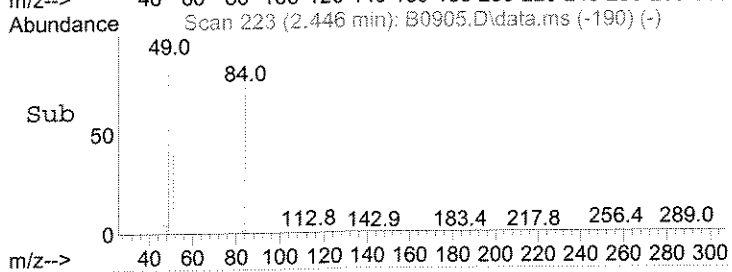
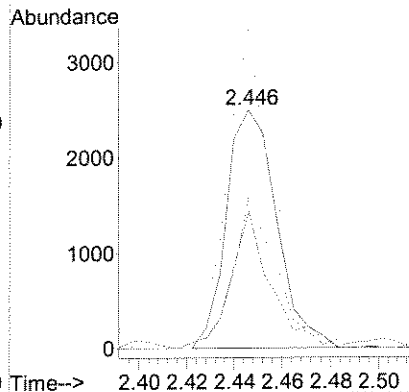
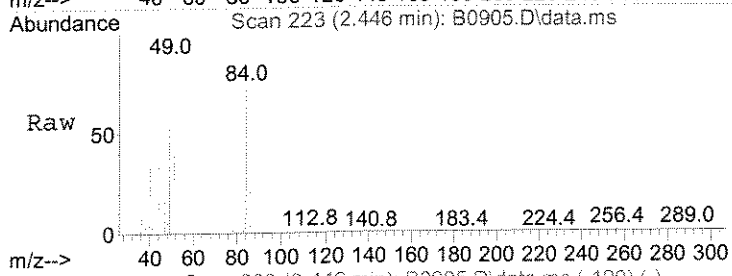
Tgt Ion	Resp	Lower	Upper
45	3410		
45	100		
43	28.6	17.0	25.4#





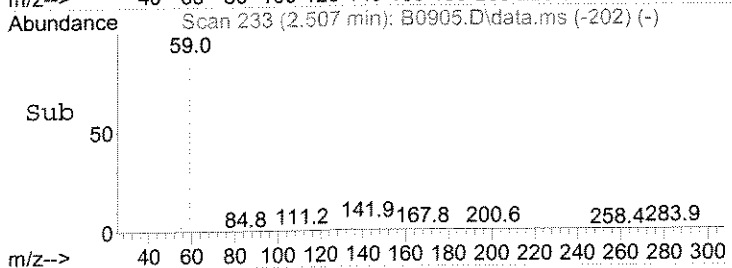
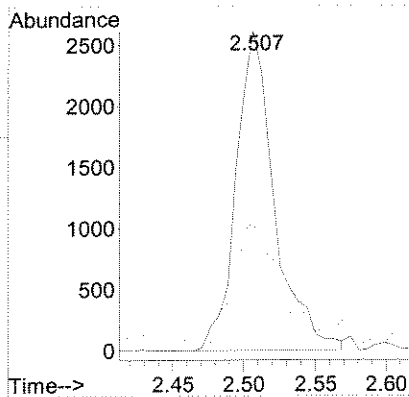
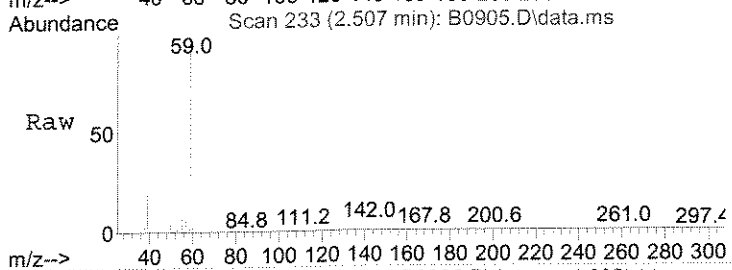
#23
 Methylene Chloride
 Concen: 0.31 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

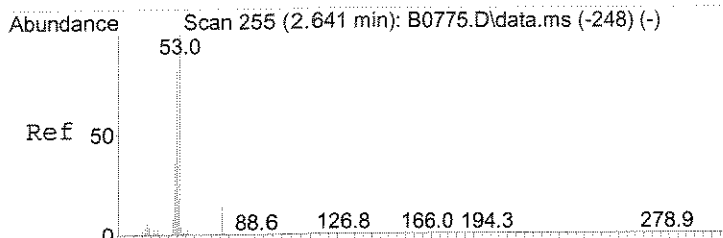
Tgt Ion	Ratio	Lower	Upper
84	100		
86	63.6	50.5	75.7
49	134.2	99.5	149.3
51	57.5	31.1	46.7#



#24
 TBA
 Concen: 8.33 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

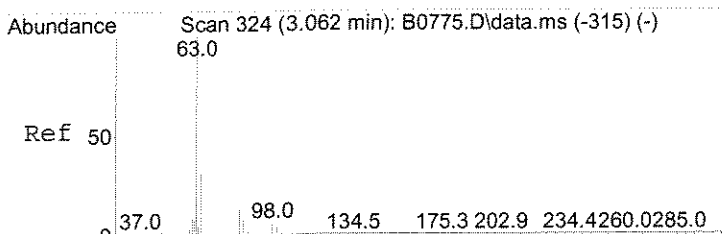
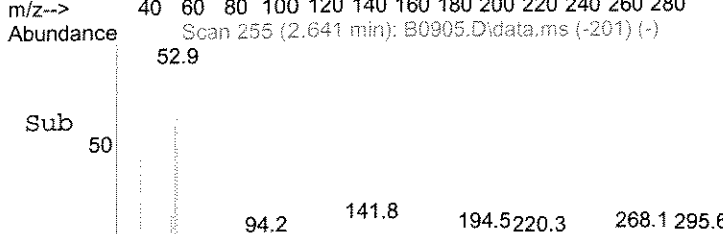
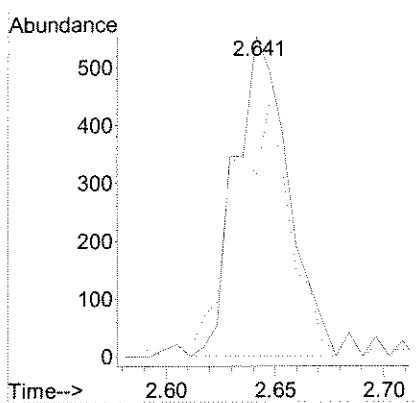
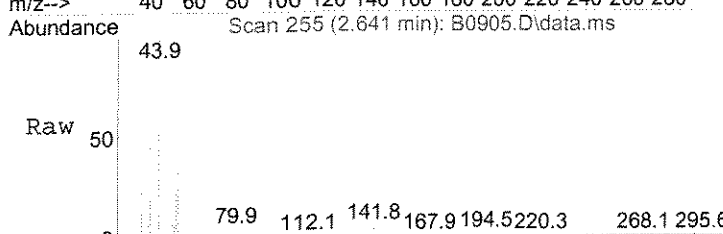
Tgt Ion	Ratio	Lower	Upper
59	100		
41	40.3	14.5	43.6





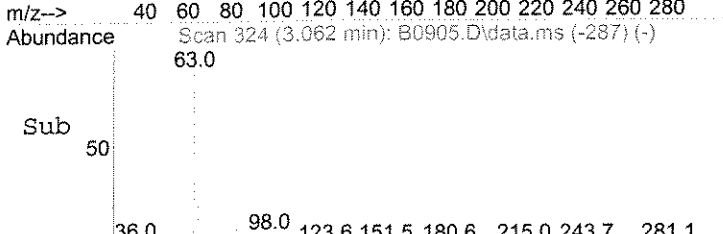
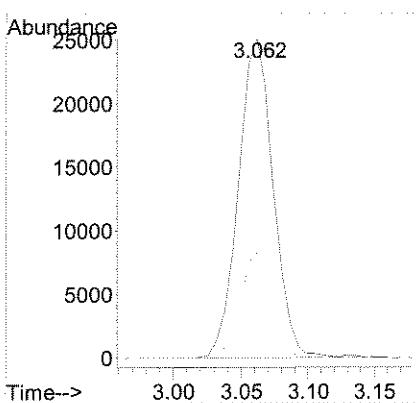
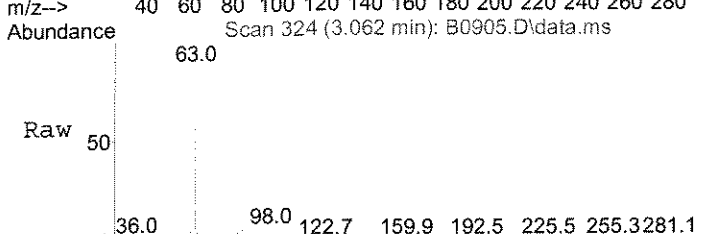
#25
 Acrylonitrile
 Concen: 0.39 ug/L
 RT: 2.641 min Scan# 255
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

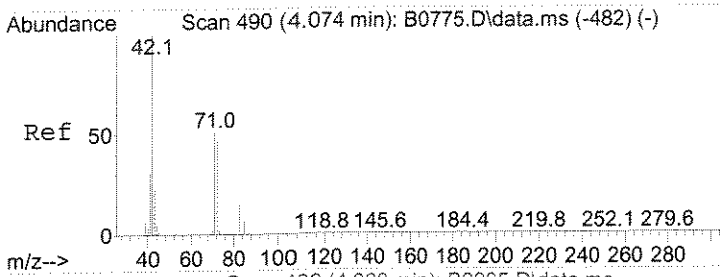
Tgt Ion	Resp	Lower	Upper
53	100		
52	56.8	41.0	123.0



#28
 1,1-Dicloroethane
 Concen: 2.25 ug/L
 RT: 3.062 min Scan# 324
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

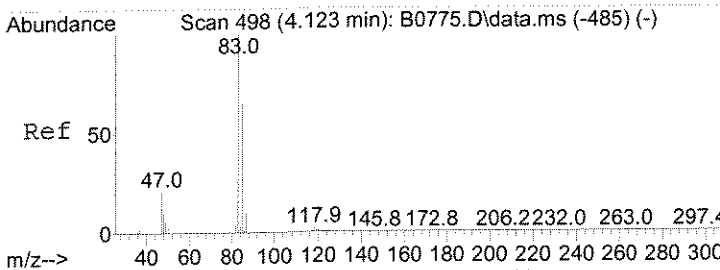
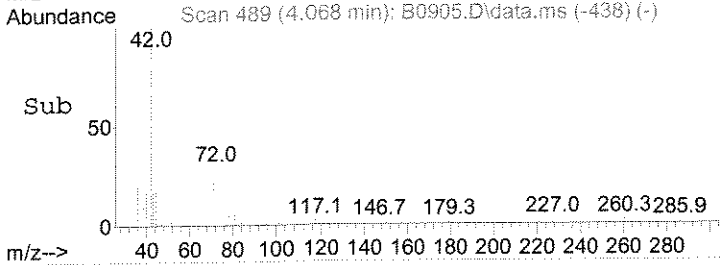
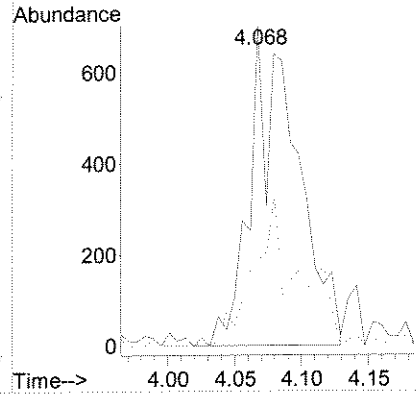
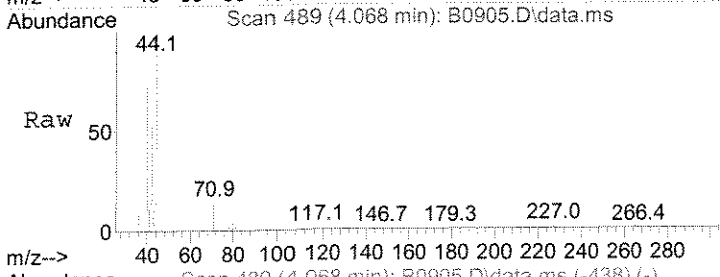
Tgt Ion	Resp	Lower	Upper
63	100		
65	33.2	24.9	37.3
83	12.5	10.5	15.7





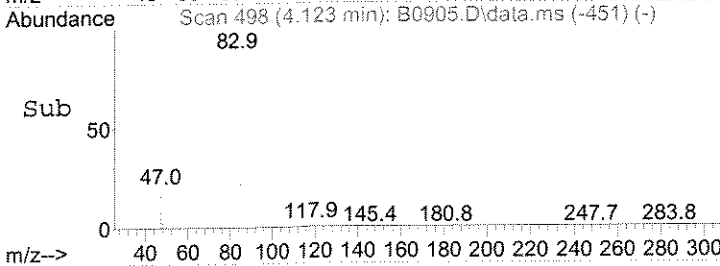
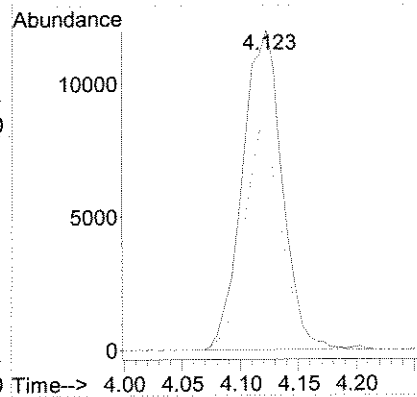
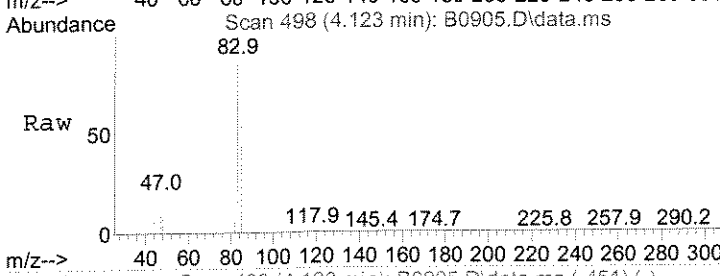
#40
 Tetrahydrofuran
 Concen: 1.02 ug/L
 RT: 4.068 min Scan# 489
 Delta R.T. -0.006 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

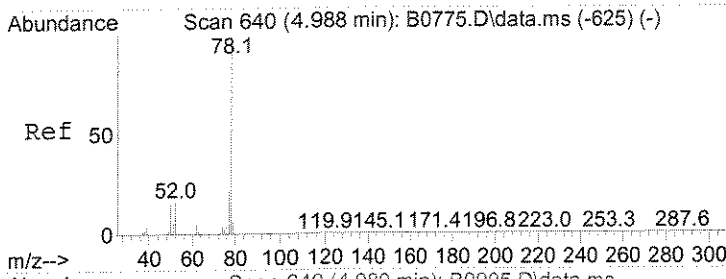
Tgt Ion	Resp	Lower	Upper
42	1720		
Ion Ratio			
42	100		
72	27.0	37.4	56.2#



#41
 Chloroform
 Concen: 1.40 ug/L
 RT: 4.123 min Scan# 498
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

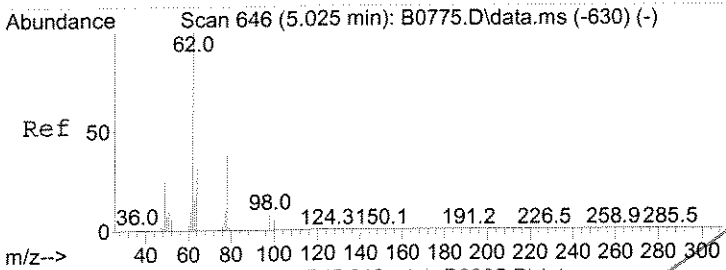
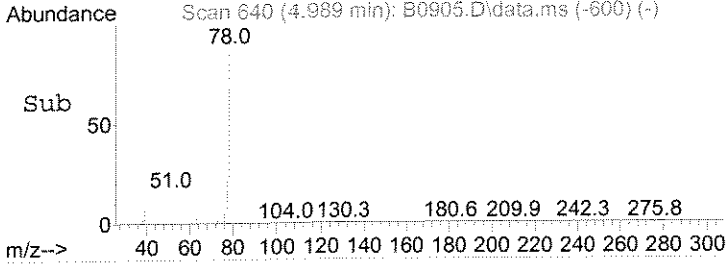
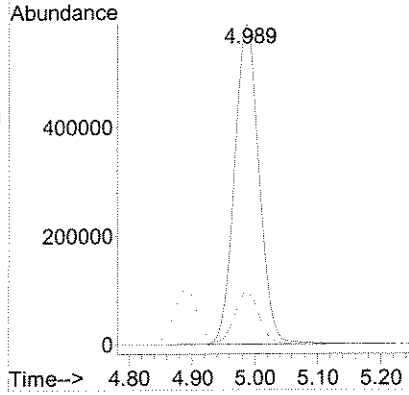
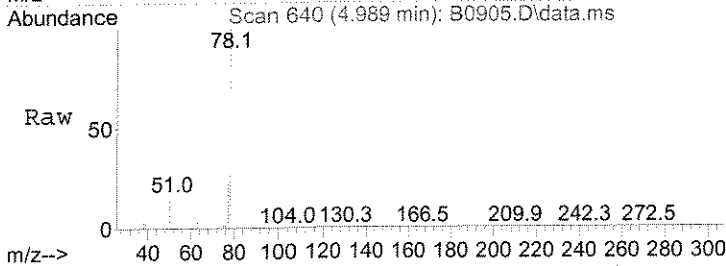
Tgt Ion	Resp	Lower	Upper
83	28654		
Ion Ratio			
83	100		
85	69.2	51.7	77.5
47	19.6	17.1	25.7





#50
Benzene
Concen: 35.07 ug/L
RT: 4.989 min Scan# 640
Delta R.T. -0.000 min
Lab File: B0905.D
Acq: 3 Jul 2008 2:27 pm

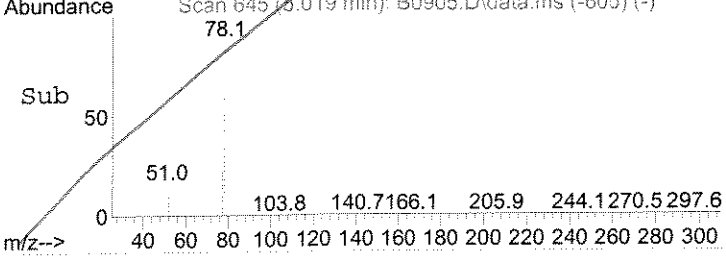
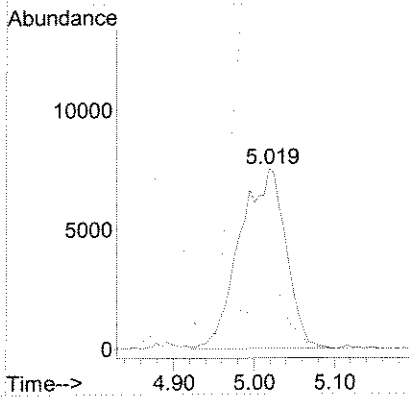
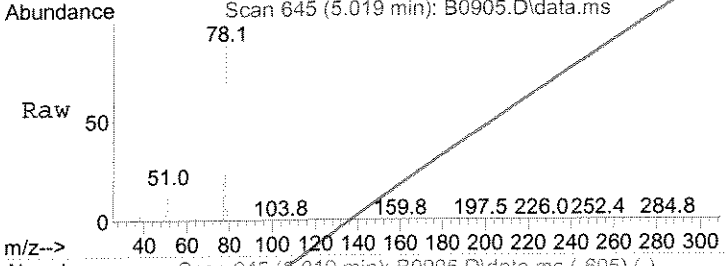
Tgt Ion	Ratio	Lower	Upper
78	100		
51	16.3	13.4	20.2
52	16.0	12.6	18.8

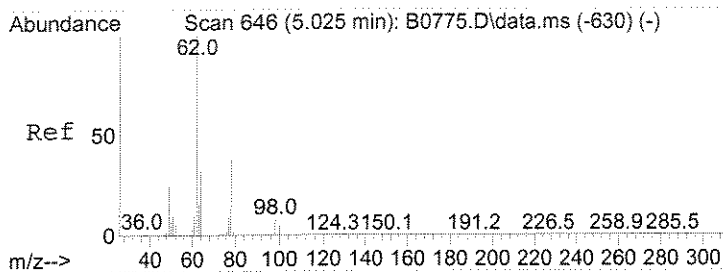


#51
1,2-Dichloroethane
Concen: 1.89 ug/L
RT: 5.019 min Scan# 645
Delta R.T. -0.006 min
Lab File: B0905.D
Acq: 3 Jul 2008 2:27 pm

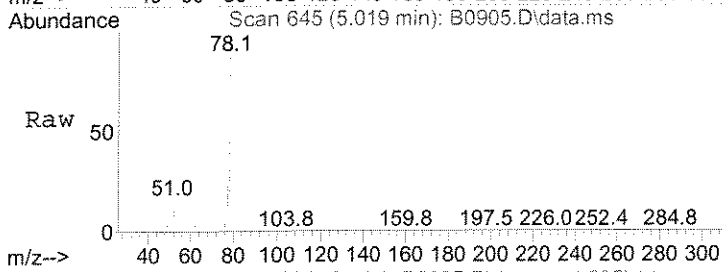
Tgt Ion	Ratio	Lower	Upper
62	100		
64	35.3	26.5	39.7
49	58.7	20.2	30.4#

Reintegrated
See next page.
FW 7/17/08

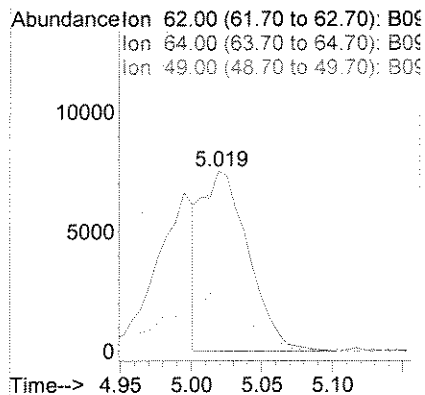
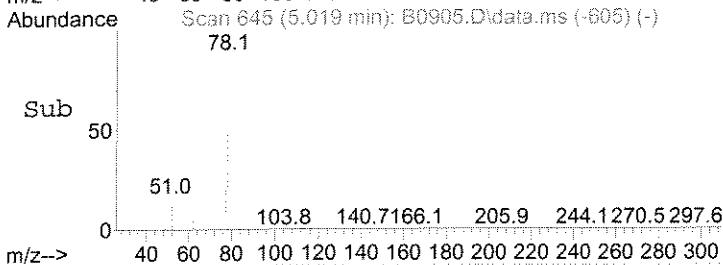


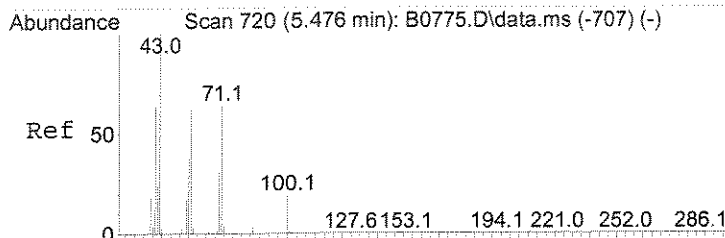


#51
 1,2-Dichloroethane
 Concen: 1.09 ug/L m
 RT: 5.019 min Scan# 645
 Delta R.T. -0.006 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm



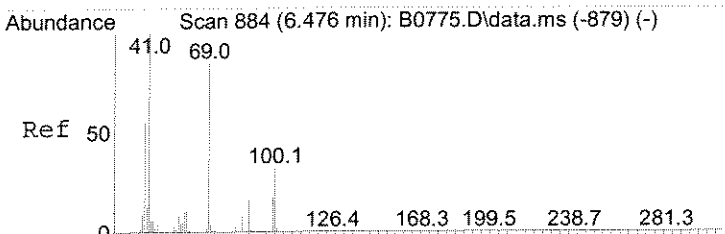
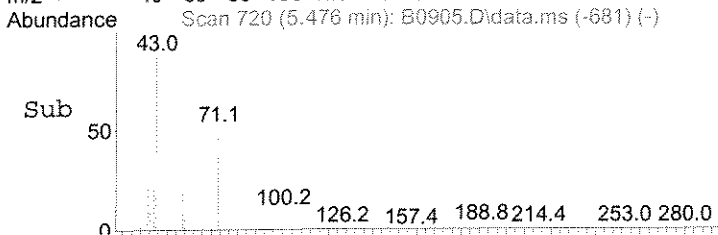
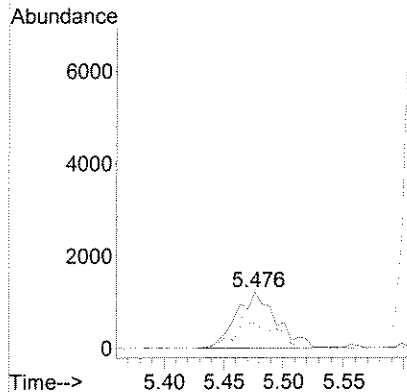
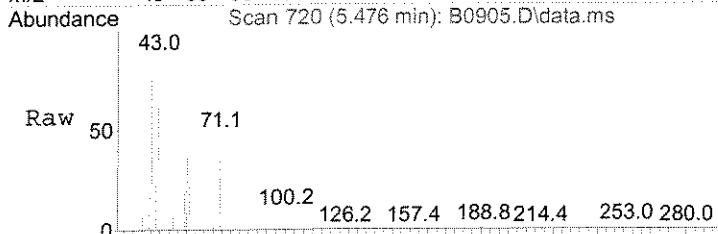
Tgt Ion	Resp	Lower	Upper
62	17390		
62	100		
64	35.3	26.5	39.7
49	58.7	20.2	30.4#





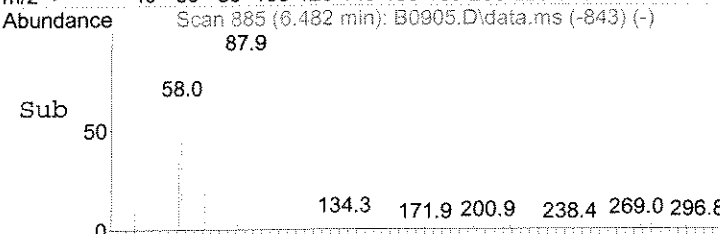
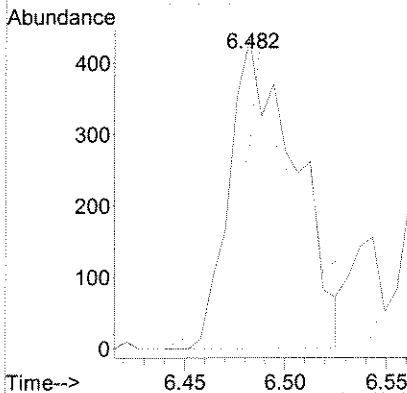
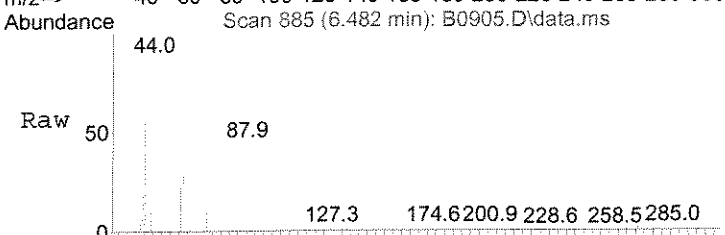
#53
 n-Heptane
 Concen: 0.30 ug/L
 RT: 5.476 min Scan# 720
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

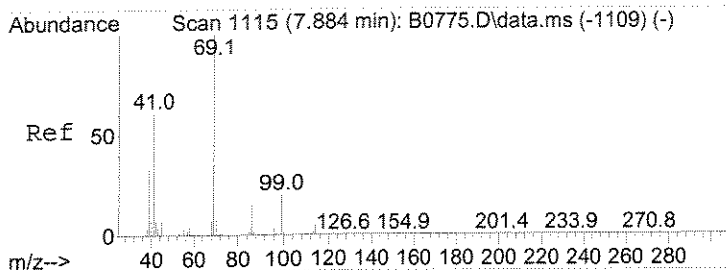
Tgt Ion	Ratio	Lower	Upper
43	100		
57	44.6	49.1	73.7#
71	49.0	51.2	76.8#



#58
 1,4-Dioxane
 Concen: 10.77 ug/L
 RT: 6.482 min Scan# 885
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

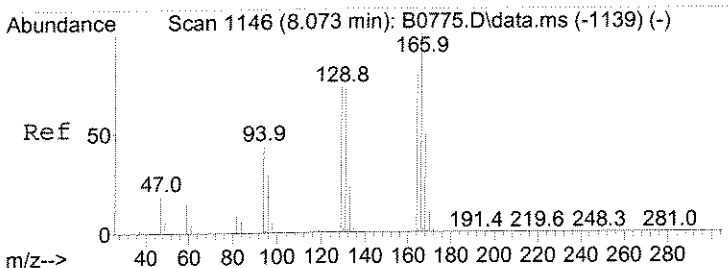
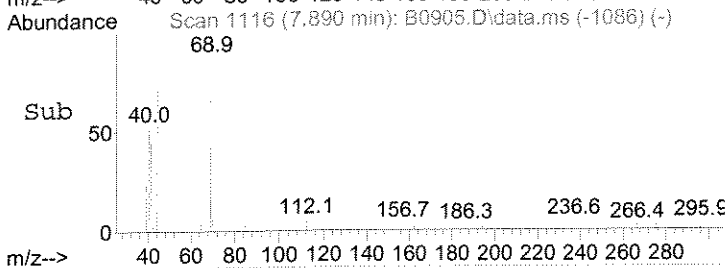
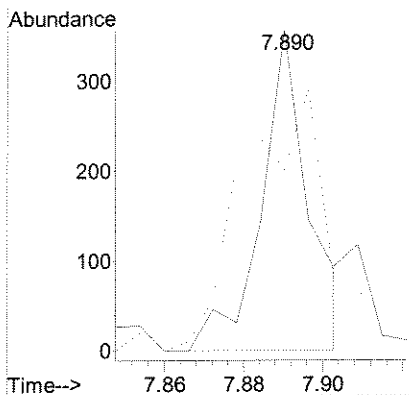
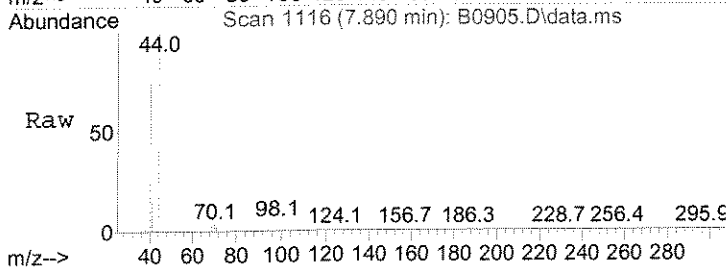
Tgt Ion	Ratio	Lower	Upper
88	100		
58	65.0	57.4	86.2





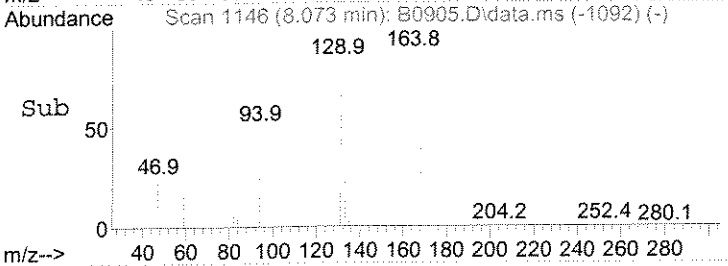
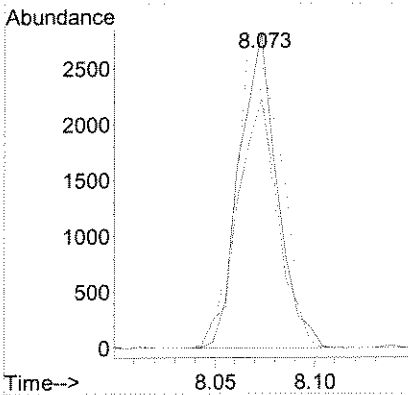
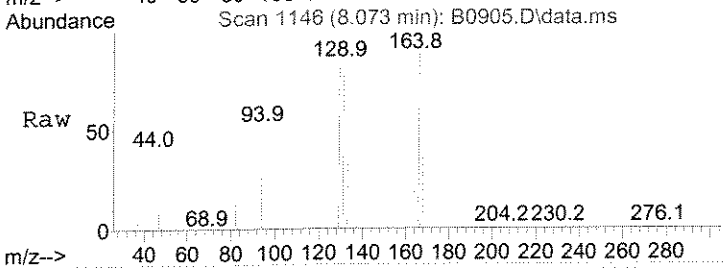
#68
 Ethyl Methacrylate
 Concen: 1.58 ug/L
 RT: 7.890 min Scan# 1116
 Delta R.T. 0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

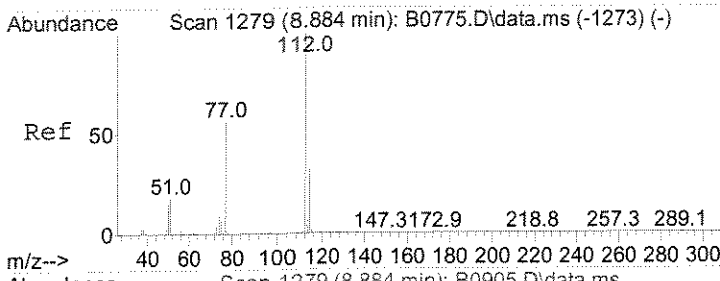
Tgt Ion: 69 Resp: 298
 Ion Ratio Lower Upper
 69 100
 41 56.5 49.2 73.8



#72
 Tetrachloroethene
 Concen: 0.35 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

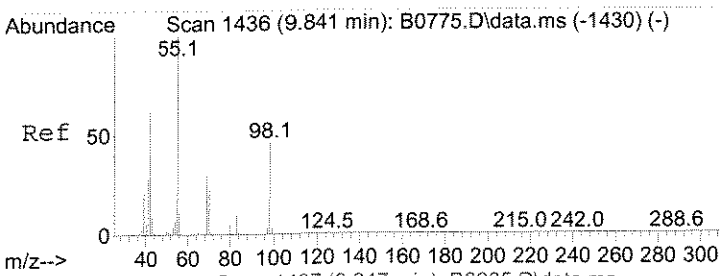
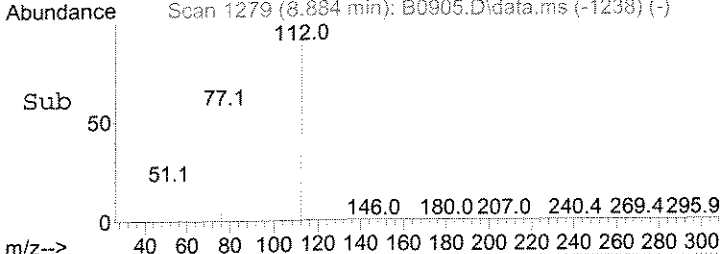
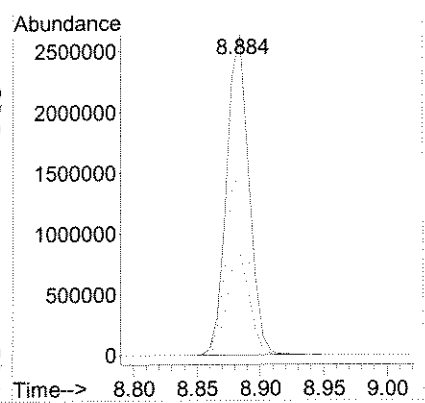
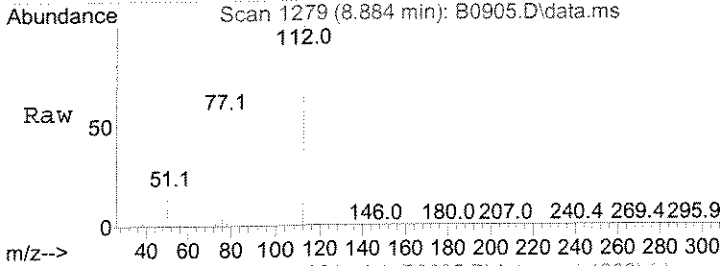
Tgt Ion: 164 Resp: 3704
 Ion Ratio Lower Upper
 164 100
 166 92.0 101.5 152.3#
 129 83.6 73.8 110.6
 131 79.1 72.9 109.3





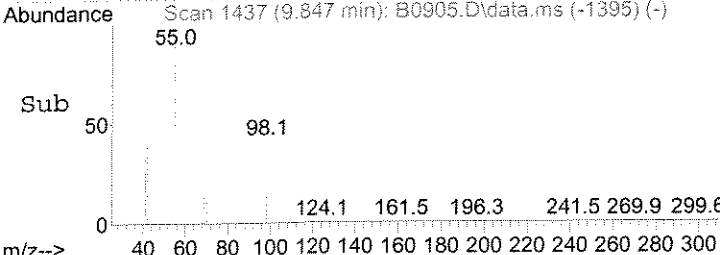
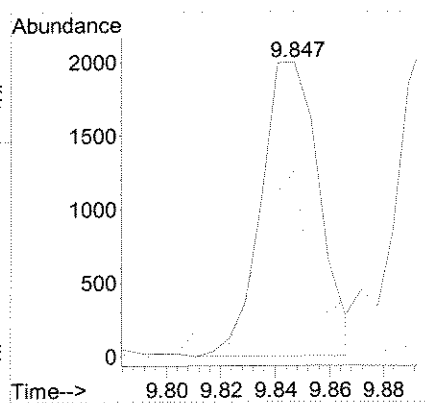
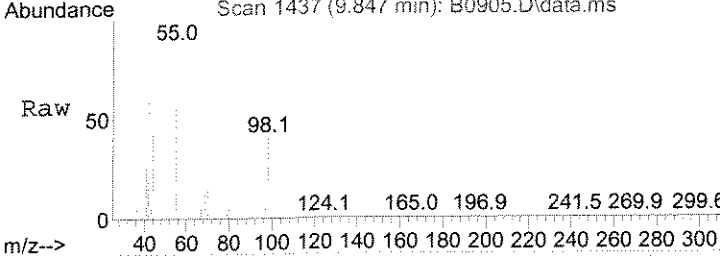
#77
 Chlorobenzene
 Concen: 94.14 ug/L
 RT: 8.884 min Scan# 1279
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

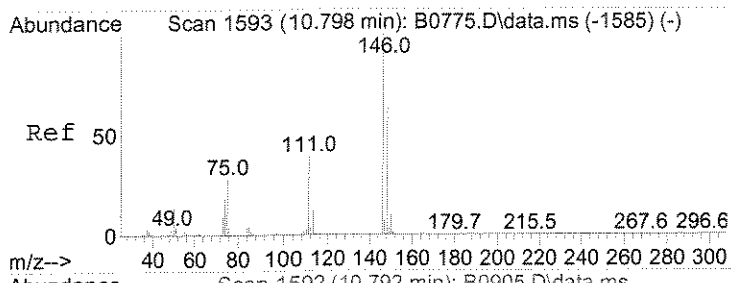
Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.8	38.6
77	56.1	45.0	67.6



#85
 Cyclohexanone
 Concen: 3.13 ug/L
 RT: 9.847 min Scan# 1437
 Delta R.T. 0.006 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

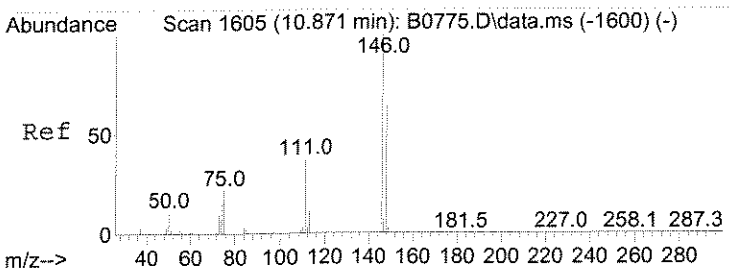
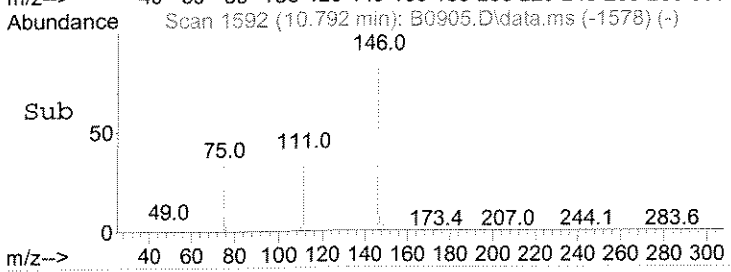
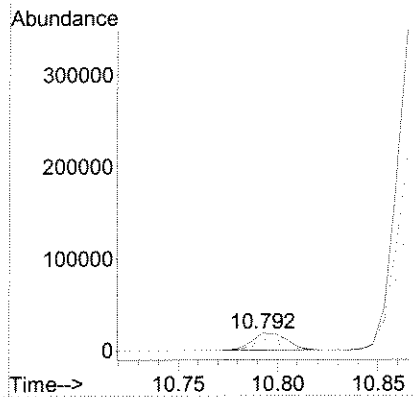
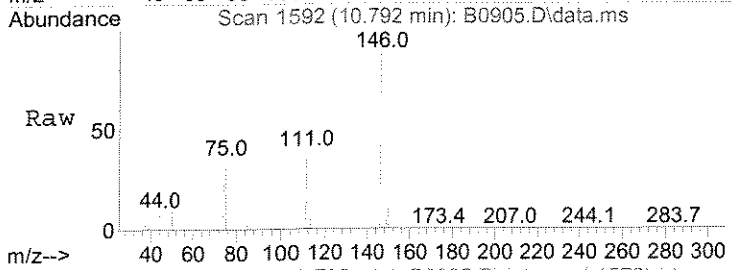
Tgt Ion	Ratio	Lower	Upper
55	100		
42	63.2	49.3	73.9





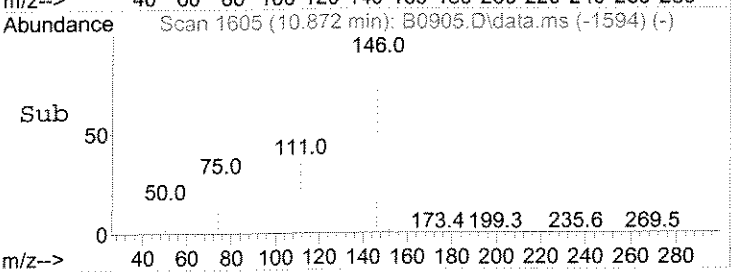
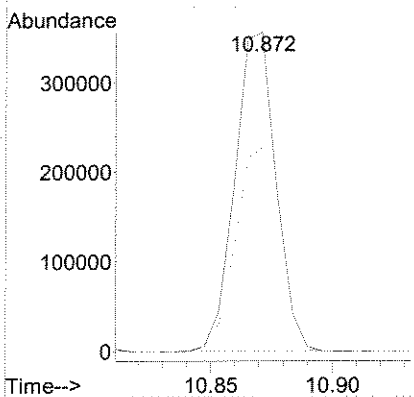
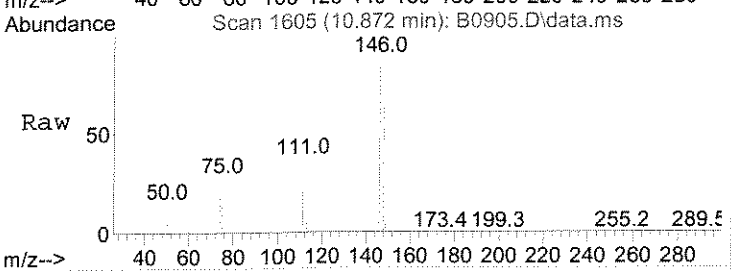
#100
 1,3-Dclbenz
 Concen: 0.81 ug/L
 RT: 10.792 min Scan# 1592
 Delta R.T. -0.006 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

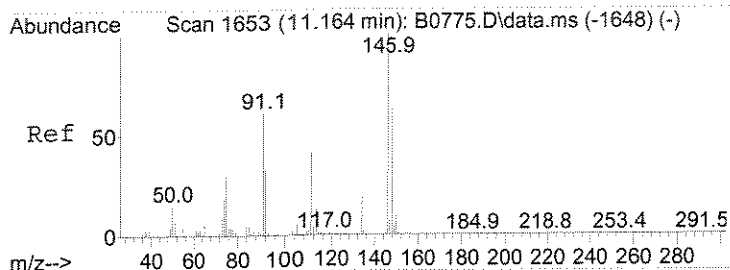
Tgt Ion	Ratio	Lower	Upper
146	100		
148	61.3	51.2	76.8
111	39.1	31.4	47.0



#101
 1,4-Dclbenz
 Concen: 14.31 ug/L
 RT: 10.872 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

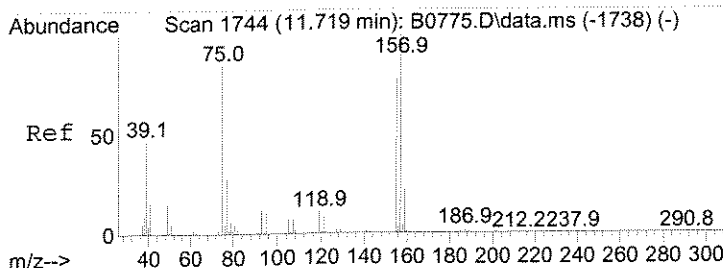
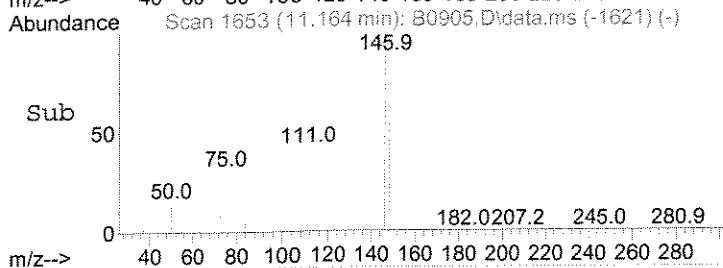
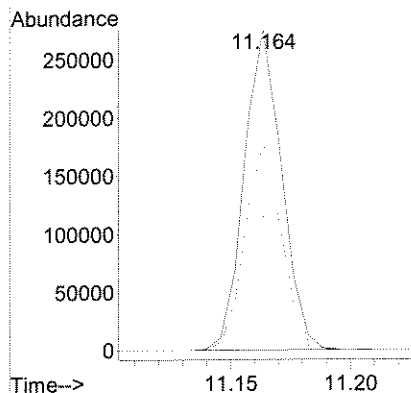
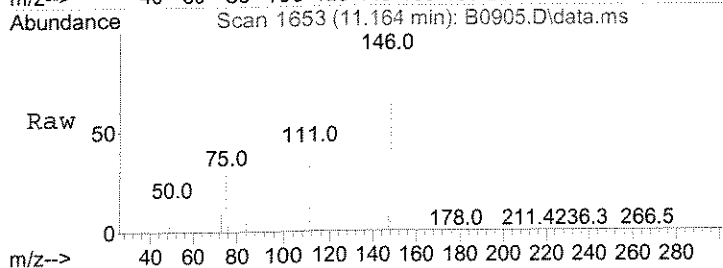
Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
111	36.9	30.0	45.0





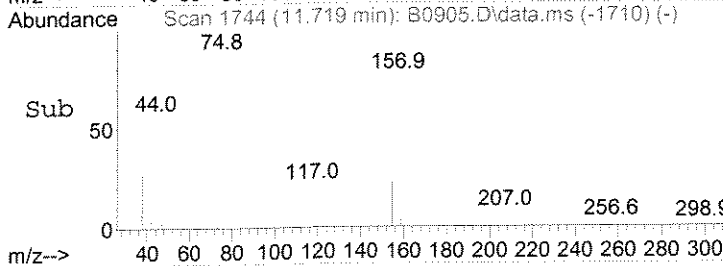
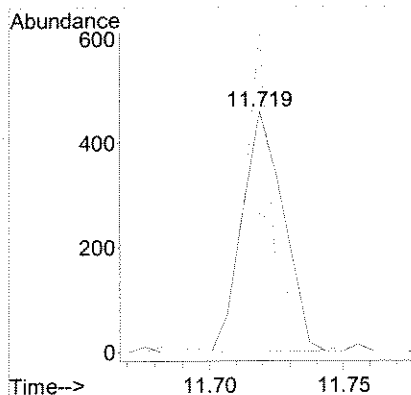
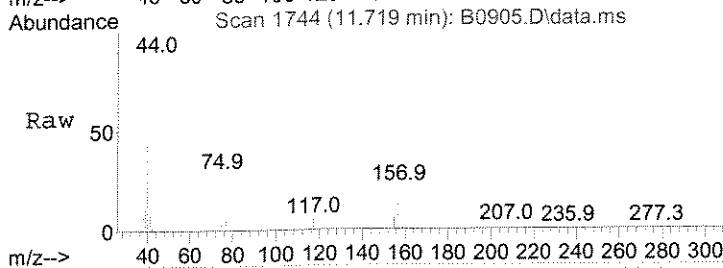
#104
 1,2-Diclbz
 Concen: 11.21 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

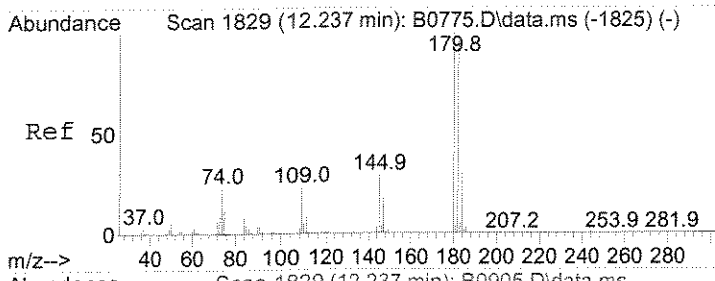
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	301450		
148	65.2	50.3	75.5	
111	42.2	33.0	49.4	



#105
 1,2-Dibromo-3-chloropropane
 Concen: 0.22 ug/L
 RT: 11.719 min Scan# 1744
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

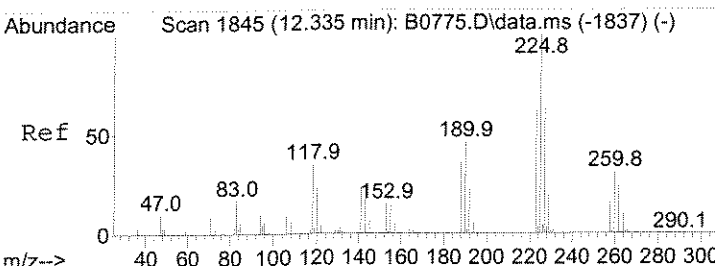
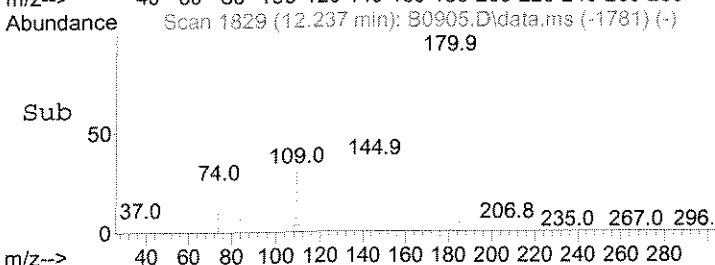
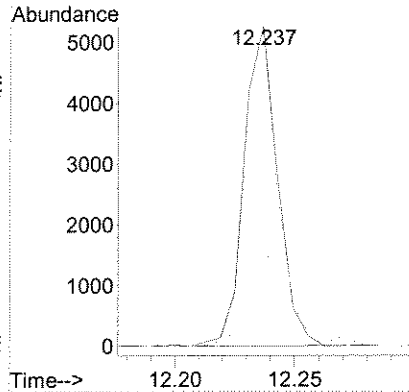
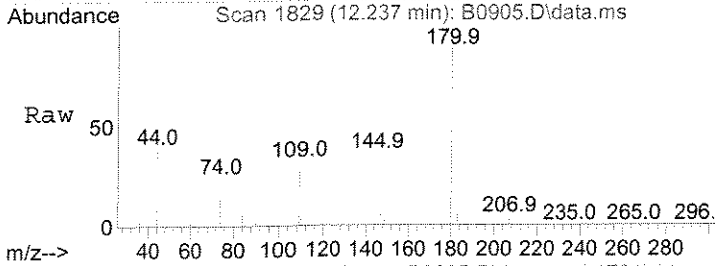
Tgt Ion	Ratio	Resp	Lower	Upper
157	100	492		
75	133.0	68.0	102.0#	
155	57.6	62.0	93.0#	





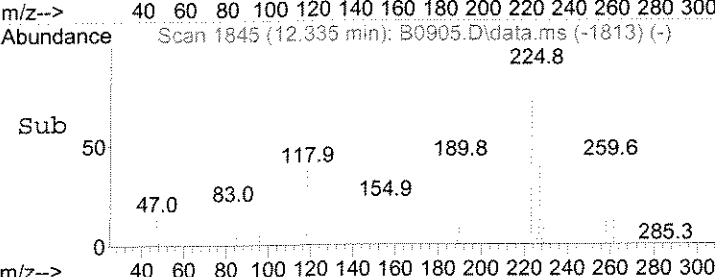
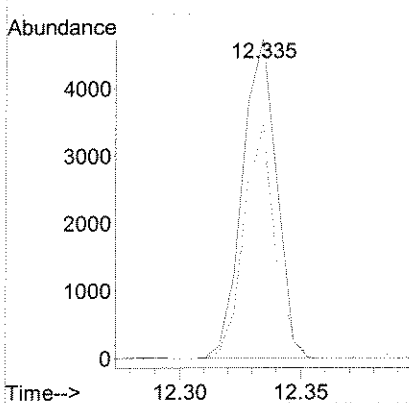
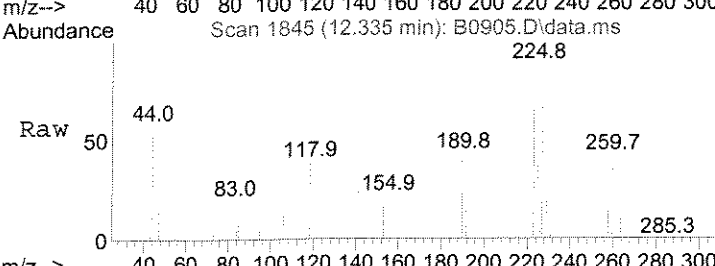
#107
 1,2,4-Tcbenzene
 Concen: 0.28 ug/L
 RT: 12.237 min Scan# 1829
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

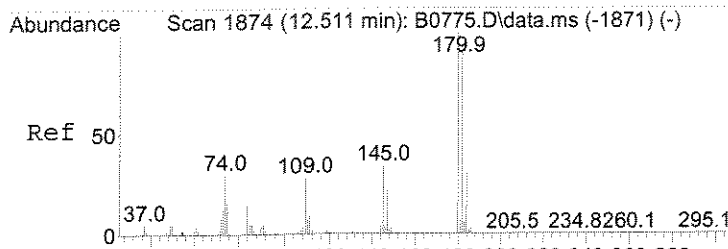
Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.2	77.8	116.6
145	35.5	23.2	34.8#



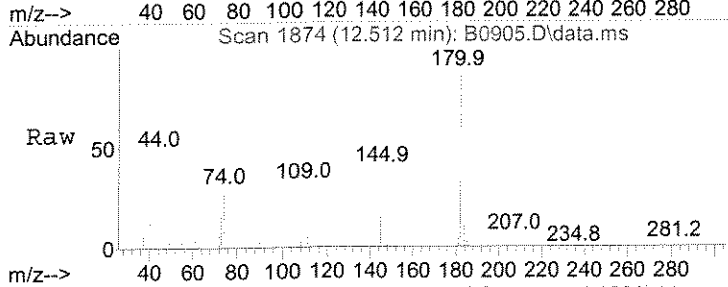
#108
 Hexachlorobt
 Concen: 0.63 ug/L
 RT: 12.335 min Scan# 1845
 Delta R.T. -0.000 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm

Tgt Ion	Ratio	Lower	Upper
225	100		
223	73.3	49.7	74.5
227	67.9	50.1	75.1

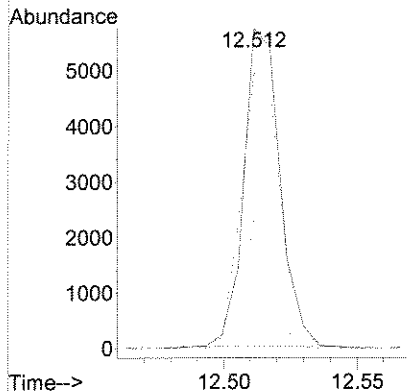
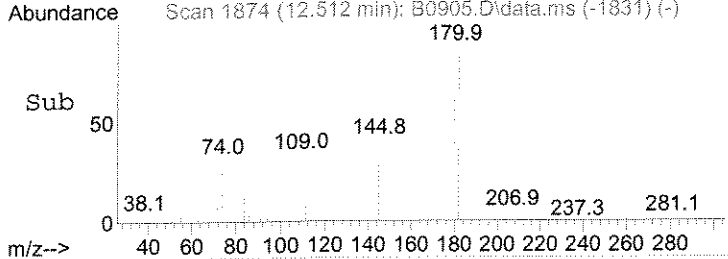




#110
 1,2,3-Tclbenzene
 Concen: 0.32 ug/L
 RT: 12.512 min Scan# 1874
 Delta R.T. -0.006 min
 Lab File: B0905.D
 Acq: 3 Jul 2008 2:27 pm



Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.1	74.4	111.6
145	40.4	27.2	40.8



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-5AB

Date Sampled : 06/26/08 09:10 Order #: 1112811 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	25.00		
ACETONE	20	80 JB	UG/L
BENZENE	1.0	30	UG/L
BROMOBENZENE	2.0	50 U	UG/L
BROMOCHLOROMETHANE	2.0	50 U	UG/L
BROMODICHLOROMETHANE	1.0	25 U	UG/L
BROMOFORM	1.0	25 U	UG/L
BROMOMETHANE	2.0	50 U	UG/L
2-BUTANONE (MEK)	10	250 U	UG/L
TERT-BUTYL ALCOHOL	100	58 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	25 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	25 U	UG/L
TERT-BUTYLBENZENE	2.0	50 U	UG/L
SEC-BUTYLBENZENE	2.0	50 U	UG/L
N-BUTYLBENZENE	5.0	130 U	UG/L
CARBON TETRACHLORIDE	1.0	25 U	UG/L
CHLOROBENZENE	1.0	3900	UG/L
CHLOROETHANE	2.0	50 U	UG/L
CHLOROFORM	1.0	25 U	UG/L
CHLOROMETHANE	2.0	50 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	130 U	UG/L
2-CHLOROTOLUENE	5.0	130 U	UG/L
4-CHLOROTOLUENE	5.0	130 U	UG/L
DIBROMOCHLOROMETHANE	1.0	25 U	UG/L
1,2-DIBROMOETHANE	1.0	25 U	UG/L
DIBROMOMETHANE	1.0	25 U	UG/L
1,2-DICHLOROBENZENE	2.0	26 J	UG/L
1,4-DICHLOROBENZENE	2.0	36 J	UG/L
1,3-DICHLOROBENZENE	2.0	50 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	25 U	UG/L
1,1-DICHLOROETHANE	1.0	48	UG/L
1,2-DICHLOROETHANE	1.0	32	UG/L
1,1-DICHLOROETHENE	1.0	25 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	25 U	UG/L
2,2-DICHLOROPROPANE	2.0	50 U	UG/L
1,2-DICHLOROPROPANE	1.0	25 U	UG/L
1,3-DICHLOROPROPANE	2.0	50 U	UG/L
1,1-DICHLOROPROPENE	2.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	25 U	UG/L
ETHYLBENZENE	1.0	25 U	UG/L
HEXACHLOROBUTADIENE	5.0	130 U	UG/L
2-HEXANONE	10	250 U	UG/L
DI-ISOPROPYL ETHER	1.0	25 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
 Client Sample ID : M-5AB

Date Sampled : 06/26/08 09:10 Order #: 1112811 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	25.00		
ISOPROPYLBENZENE	2.0	50 U	UG/L
P-ISOPROPYLTOLUENE	2.0	50 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	25 U	UG/L
METHYLENE CHLORIDE	2.0	50 U	UG/L
NAPHTHALENE	2.0	50 U	UG/L
4-METHYL-2-PENTANONE	10	250 U	UG/L
N-PROPYLBENZENE	2.0	50 U	UG/L
STYRENE	1.0	25 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	25 U	UG/L
TETRACHLOROETHENE	1.0	25 U	UG/L
TOLUENE	1.0	25 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	50 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	25 U	UG/L
TRICHLOROETHENE	1.0	25 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	25 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	50 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	50 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	50 U	UG/L
VINYL CHLORIDE	1.0	25 U	UG/L
M+P-XYLENE	2.0	50 U	UG/L
O-XYLENE	1.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	98	%

Sample : 1112811 25.0
 Data File : J:\ACQU\DATA\MSVOA10\DATA\070208\B0890.D Vial: 11
 Acq On : 2 Jul 2008 8:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 02 20:33:35 2008
 Quant Method : J:\ACQU\DATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1317080	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2148297	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1982242	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1060095	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.355	113	690505	48.90	ug/L	0.00	
Spiked Amount	50.000		Recovery =	97.80%			
49) surr1,1,2-dichloroetha...	4.891	65	730152	54.07	ug/L	0.00	
Spiked Amount	50.000		Recovery =	108.14%			
65) SURR3,Toluene-d8	7.452	98	2539736	54.31	ug/L	0.00	
Spiked Amount	50.000		Recovery =	108.62%			
70) SURR2,BFB	9.890	95	1028938	53.43	ug/L	0.00	
Spiked Amount	50.000		Recovery =	106.86%			
Target Compounds							
10) Diethyl Ether	1.934	59	199494	33.52	ug/L	98	NT
16) Acetone	2.129	43	5219	3.21	ug/L	93	JB
17) 2-Propanol	2.184	45	180	0.52	ug/L #	1	
20) Acetonitrile	2.337	40	573	2.52	ug/L #	1	
21) Allyl Chloride	2.276	76	2141	0.43	ug/L #	1	
24) TBA	2.501	59	1278976	2.33	1.78	ug/L #	60 718 59 JB
28) 1,1-Diclcethane	3.062	63	36208	1.93	ug/L	97	
40) Tetrahydrofuran	4.080	42	2213	1.41	ug/L	100	NT
50) Benzene	4.995	78	52470	1.21	ug/L	95	
51) 1,2-Dichloroethane	5.025	62	18887	1.26	ug/L	95	
62) 2-Chloroethylvinyl Ether	7.086	63	376	Below	Cal #	50	
77) Chlorobenzene	8.884	112	5127312	155.49	ug/L	100	
85) Cyclohexanone	9.890	55	2393	2.66	ug/L #	20	
101) 1,4-Dclbenz	10.872	146	39503	1.43	ug/L	98	> J
104) 1,2-Dclbenz	11.164	146	25626	1.02	ug/L	97	
109) Naphthalen	12.390	128	615	0.55	ug/L #	91	< LR

(#) = qualifier out of range (m) = manual integration (+) = signals summed

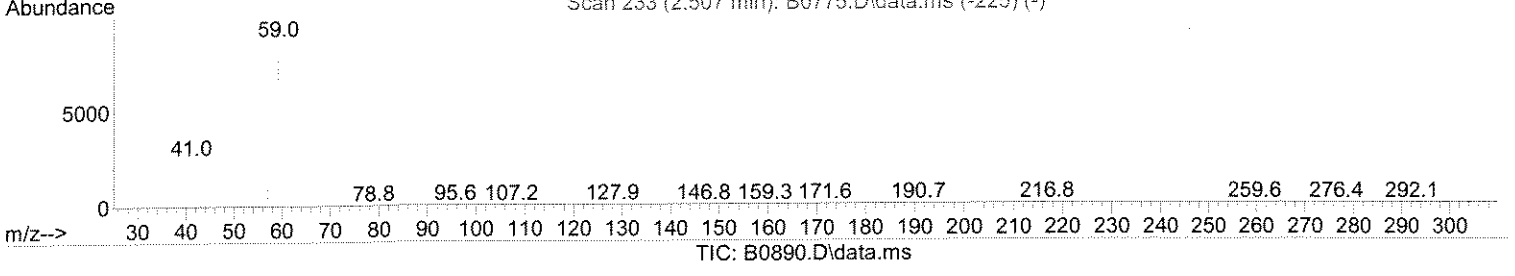
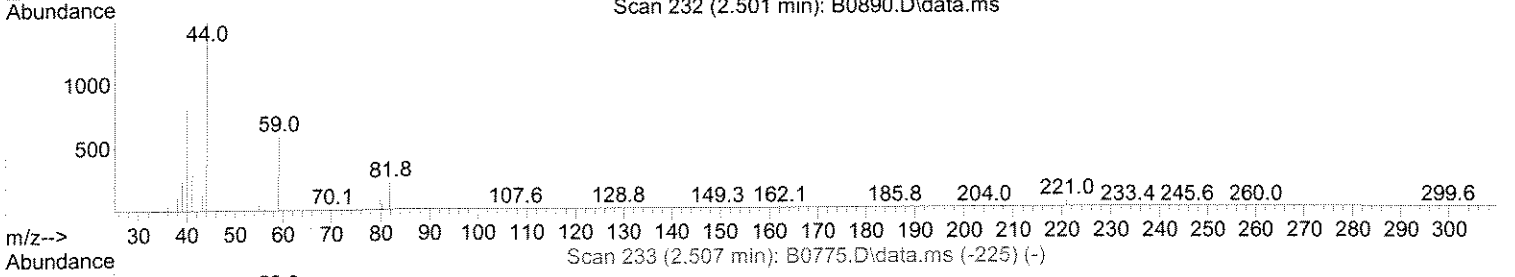
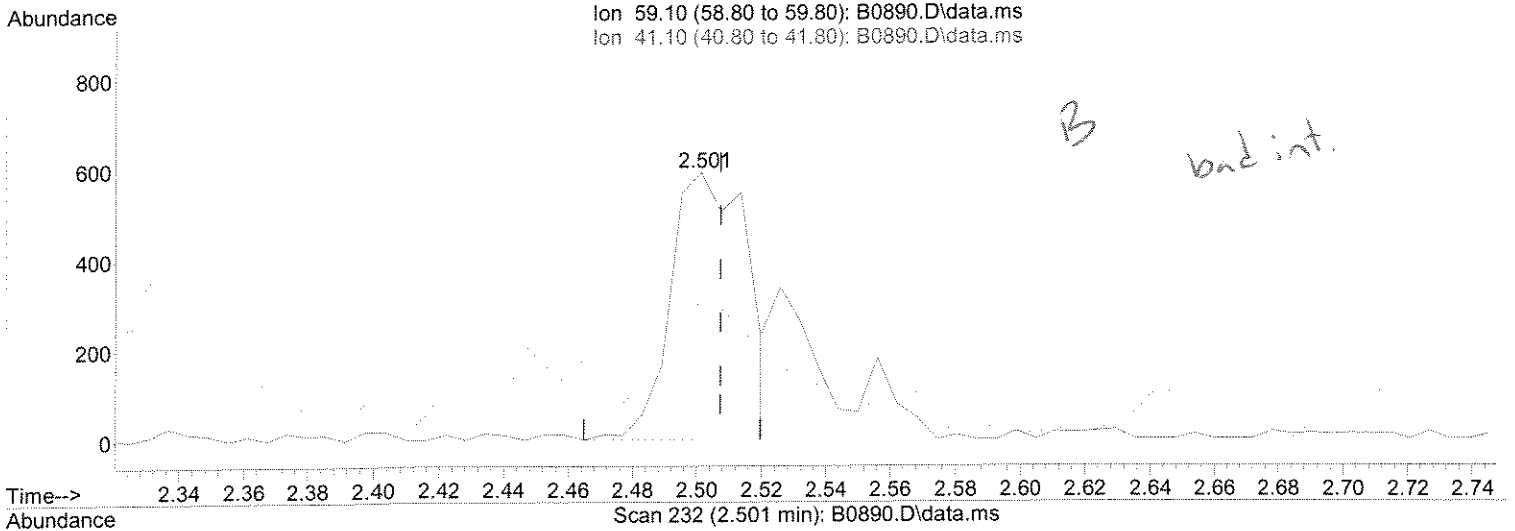
FN
7/8/08

Quantitation Report (Qedit)

Sample : 1112811 25.0
 Data File : J:\ACQUDATA\msvoa10\data\070208\B0890.D Vial: 11
 Acq On : 2 Jul 2008 8:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 02 20:33:35 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FW 7/8/08



(24) TBA

2.501min (-0.006) 1.78 ug/L

response 976

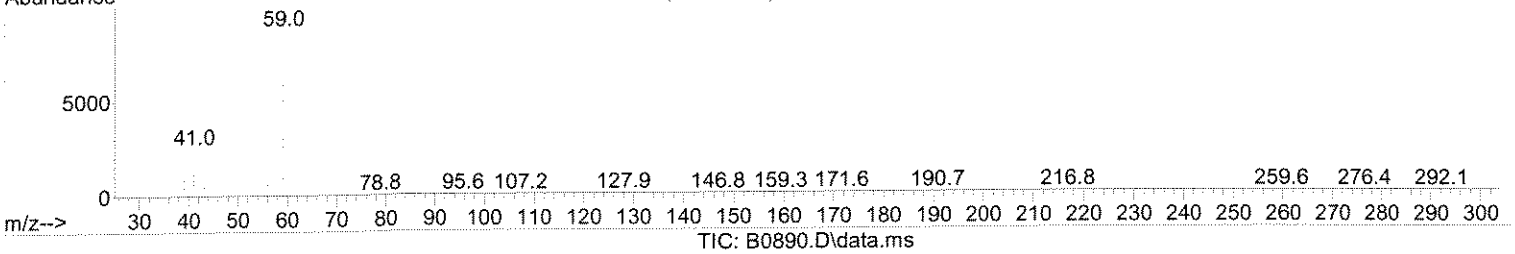
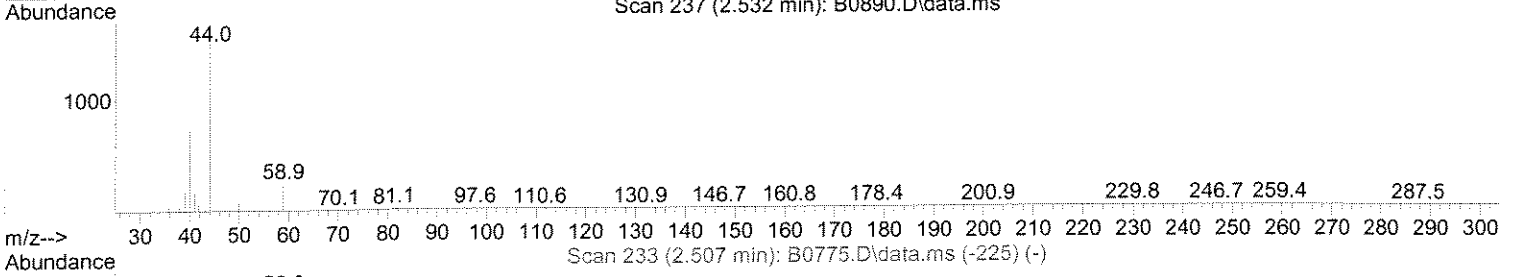
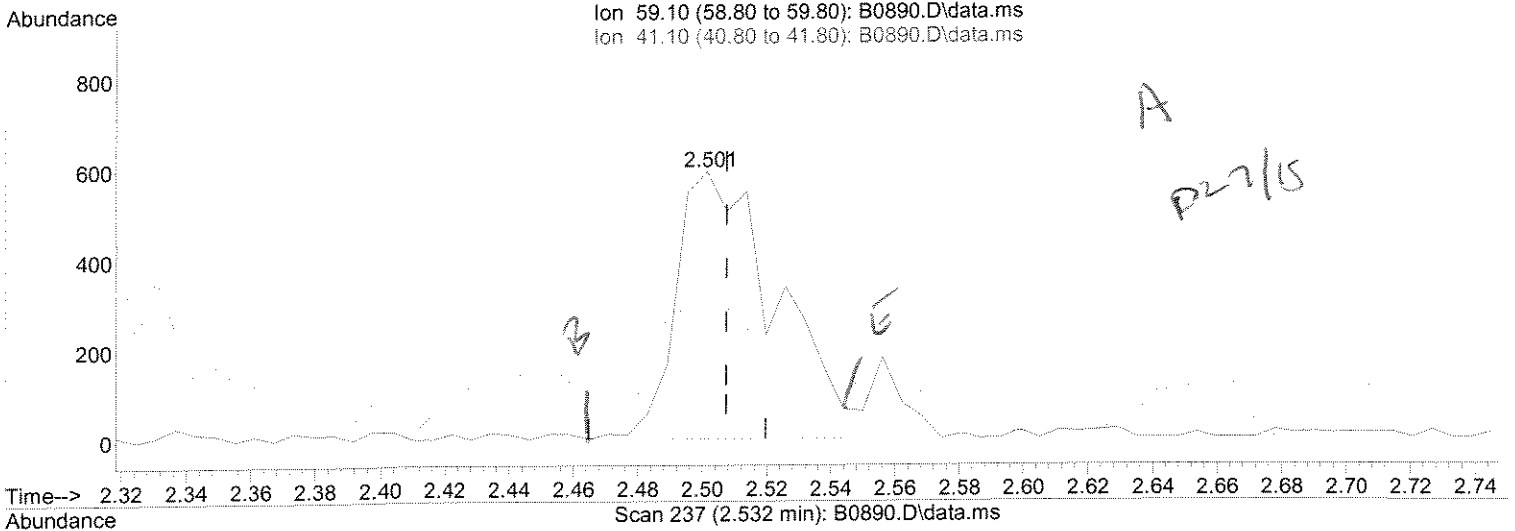
Ion	Exp%	Act%
59.10	100	100
41.10	29.10	51.18#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 1112811 25.0
 Data File : J:\ACQUDATA\msvoa10\data\070208\B0890.D Vial: 11
 Acq On : 2 Jul 2008 8:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 02 20:33:35 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FD 7/5/08



(24) TBA

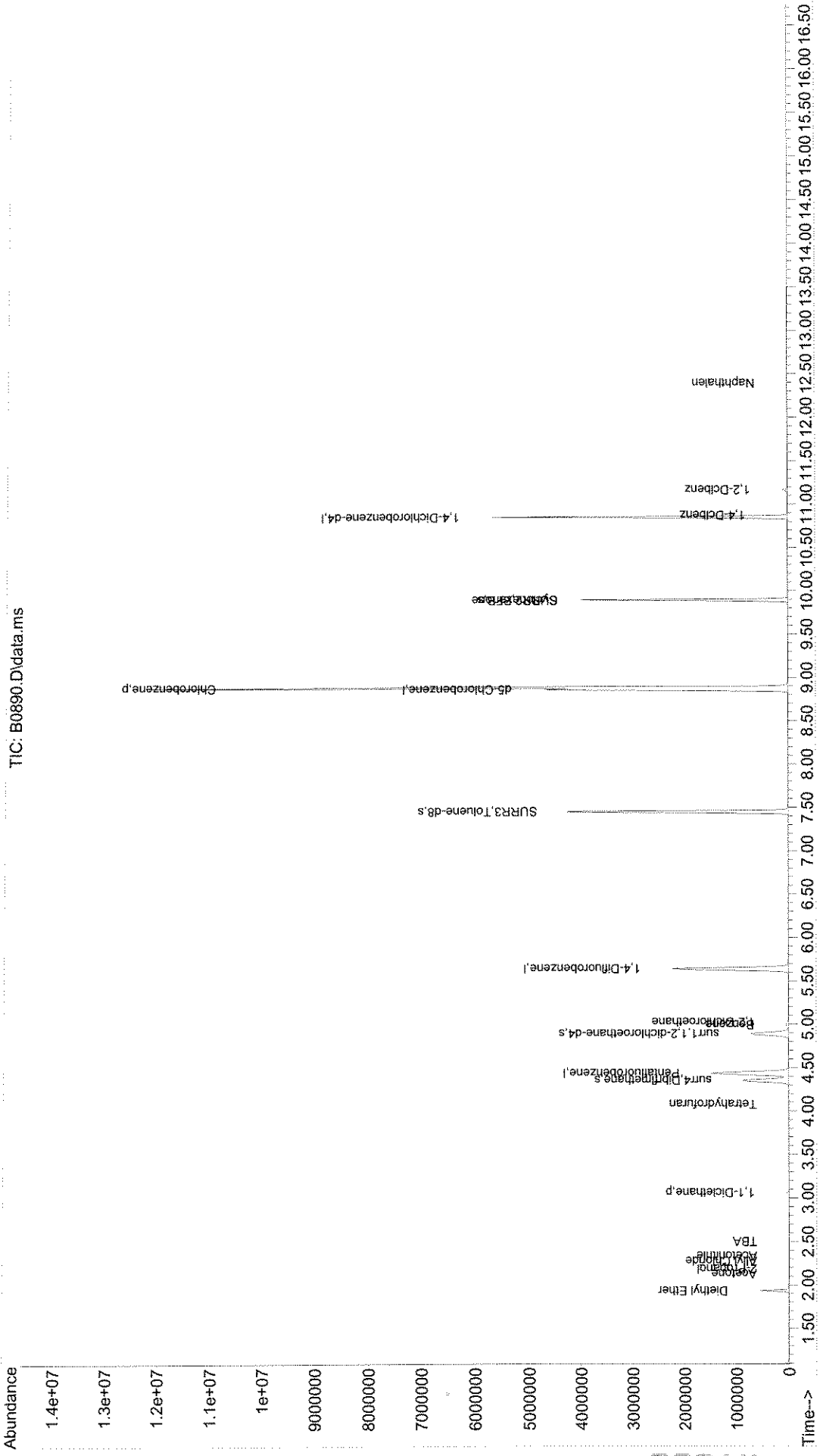
2.501min (-0.006) 2.33 ug/L m

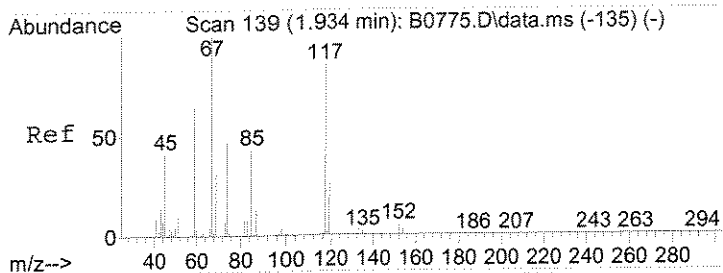
response 1278

Ion	Exp%	Act%
59.10	100	100
41.10	29.10	51.18#
0.00	0.00	0.00
0.00	0.00	0.00

Sample : 1112811 25.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070208\B0890.D Vial: 11
 Acq On : 2 Jul 2008 8:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

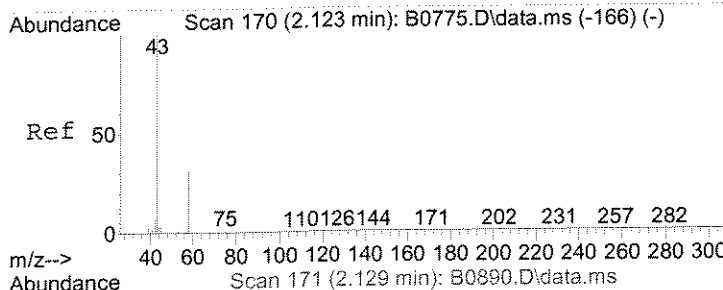
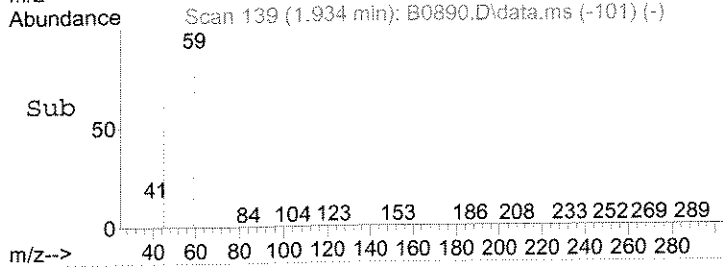
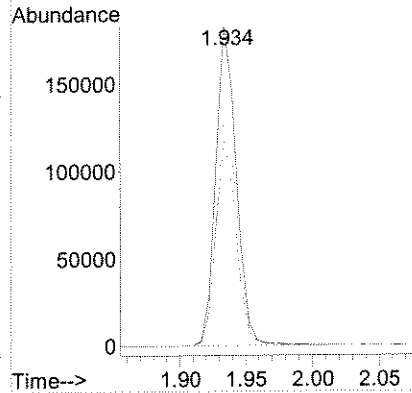
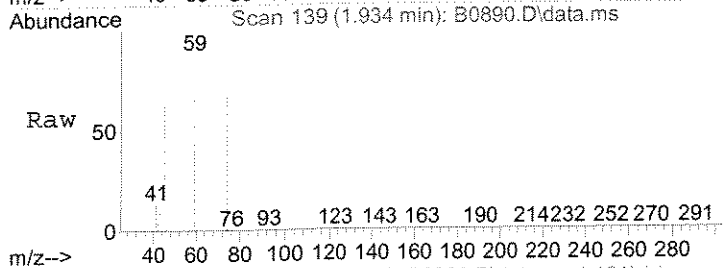
Quant Time: Jul 02 20:33:35 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





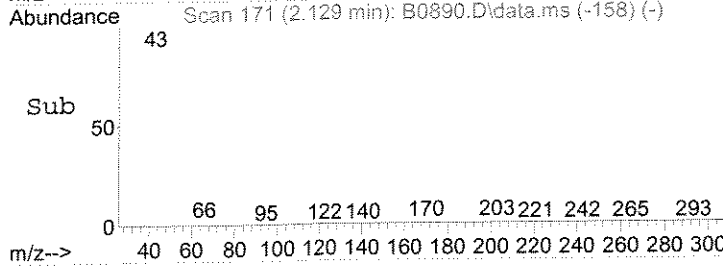
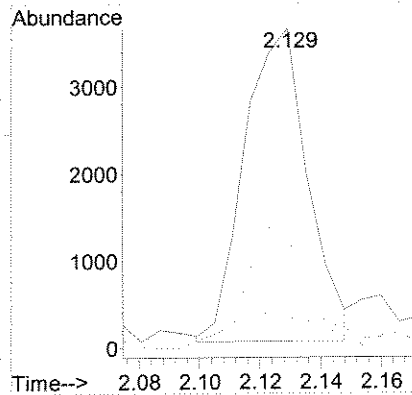
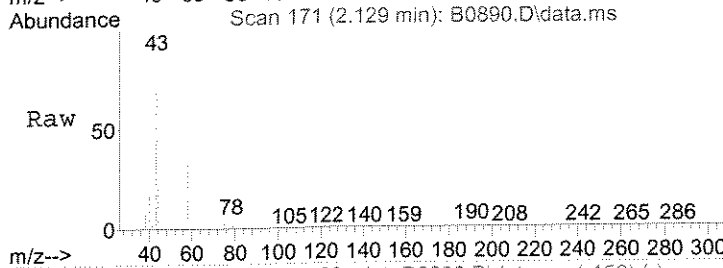
#10
 Diethyl Ether
 Concen: 33.52 ug/L
 RT: 1.934 min Scan# 139
 Delta R.T. 0.000 min
 Lab File: B0890.D
 Acq: 2 Jul 2008 8:19 pm

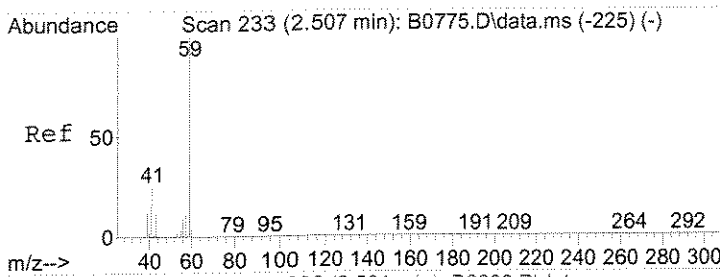
Tgt Ion	Resp	Lower	Upper
59	199494		
59	100		
45	64.3	31.6	94.7
74	71.4	36.7	110.1



#16
 Acetone
 Concen: 3.21 ug/L
 RT: 2.129 min Scan# 171
 Delta R.T. 0.006 min
 Lab File: B0890.D
 Acq: 2 Jul 2008 8:19 pm

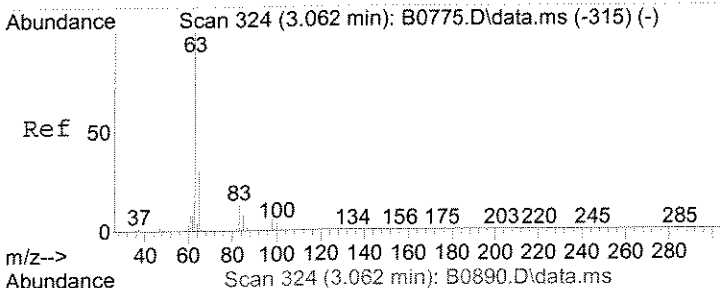
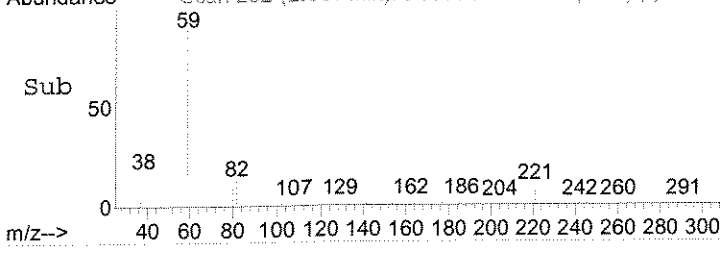
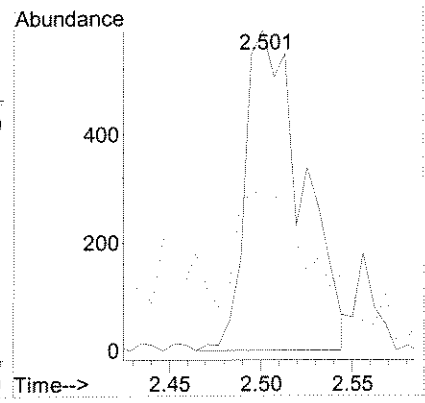
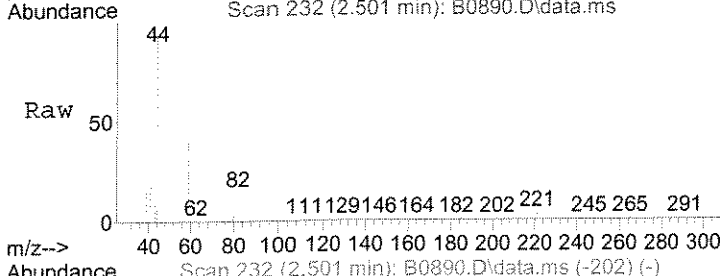
Tgt Ion	Resp	Lower	Upper
43	5219		
43	100		
58	34.5	0.9	60.9
42	9.5	0.0	37.2





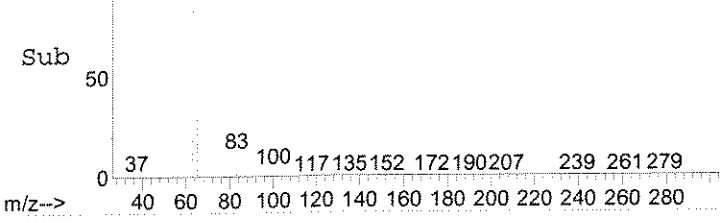
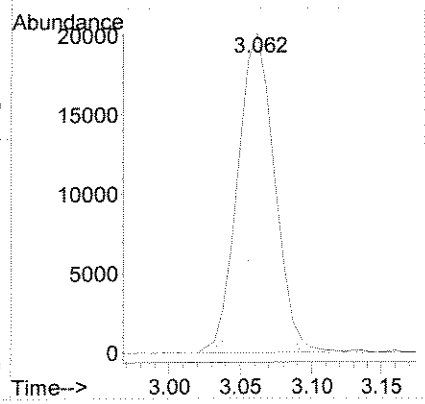
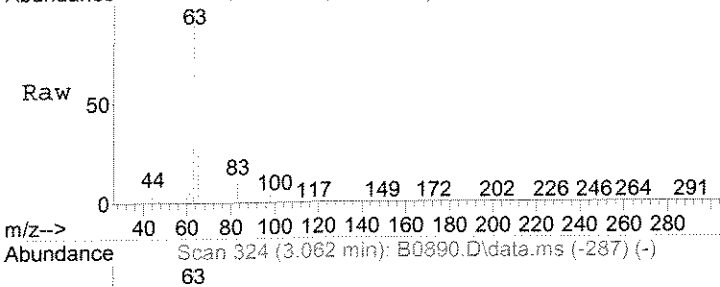
#24
 TBA
 Concen: 2.33 ug/L m
 RT: 2.501 min Scan# 232
 Delta R.T. -0.006 min
 Lab File: B0890.D
 Acq: 2 Jul 2008 8:19 pm

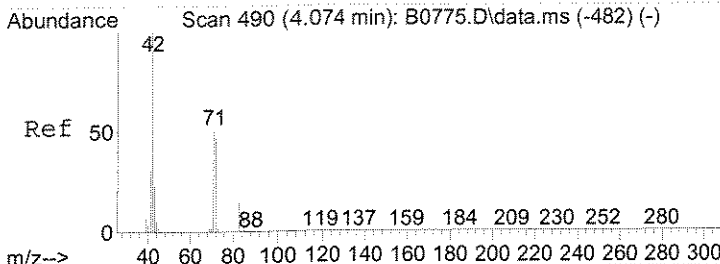
Tgt Ion	Resp	Ion Ratio	Lower	Upper
59	1278	100		
41		51.2	14.5	43.6#



#28
 1,1-Dicethane
 Concen: 1.93 ug/L
 RT: 3.062 min Scan# 324
 Delta R.T. 0.000 min
 Lab File: B0890.D
 Acq: 2 Jul 2008 8:19 pm

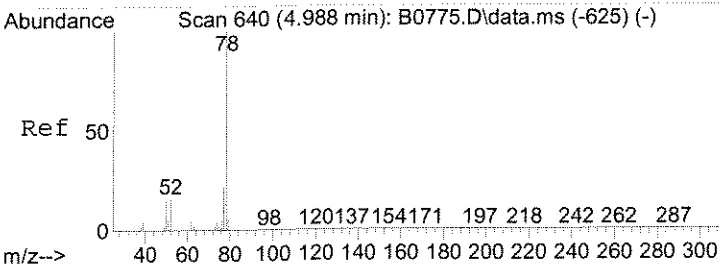
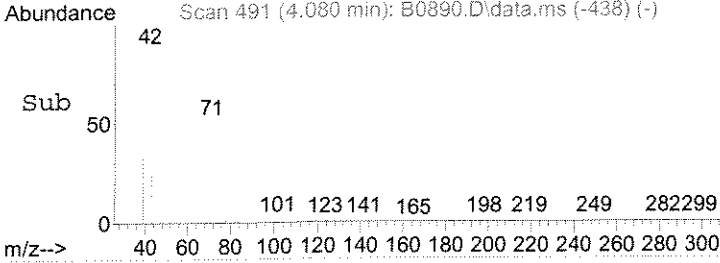
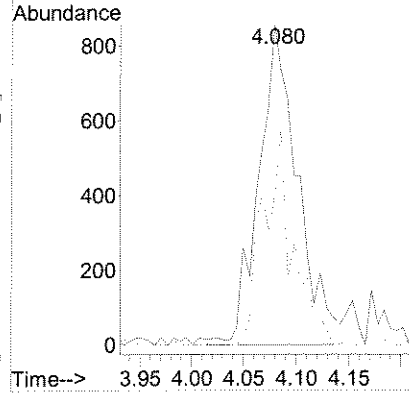
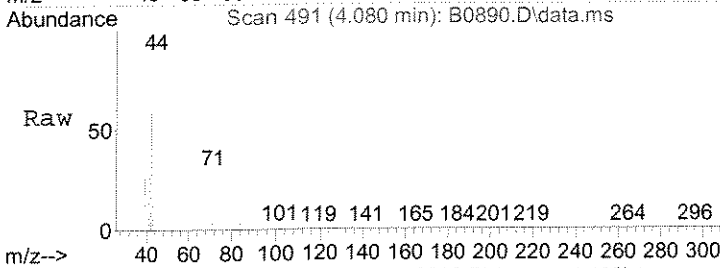
Tgt Ion	Resp	Ion Ratio	Lower	Upper
63	36208	100		
65		30.0	24.9	37.3
83		11.6	10.5	15.7





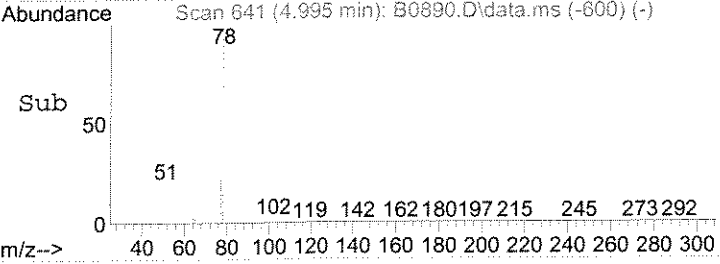
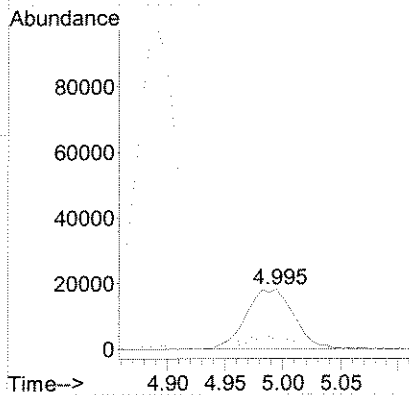
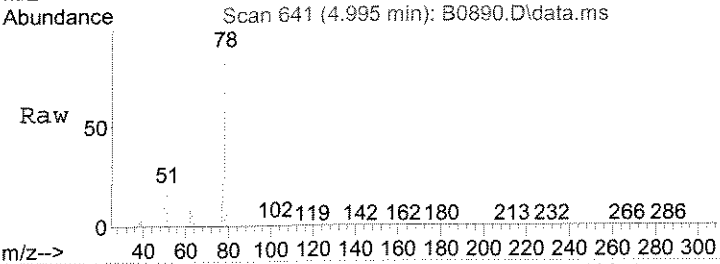
#40
 Tetrahydrofuran
 Concen: 1.41 ug/L
 RT: 4.080 min Scan# 491
 Delta R.T. 0.006 min
 Lab File: B0890.D
 Acq: 2 Jul 2008 8:19 pm

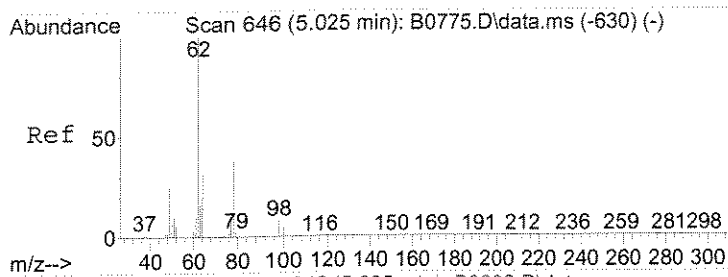
Tgt Ion	Resp	Lower	Upper
42	100		
72	47.0	37.4	56.2



#50
 Benzene
 Concen: 1.21 ug/L
 RT: 4.995 min Scan# 641
 Delta R.T. 0.006 min
 Lab File: B0890.D
 Acq: 2 Jul 2008 8:19 pm

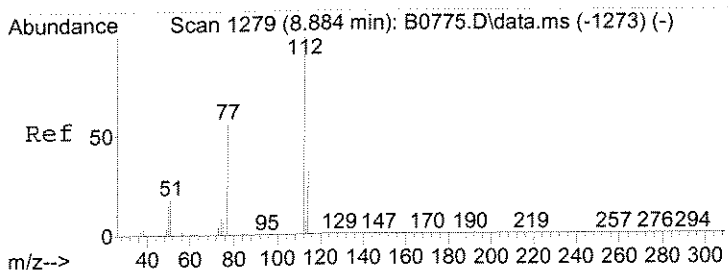
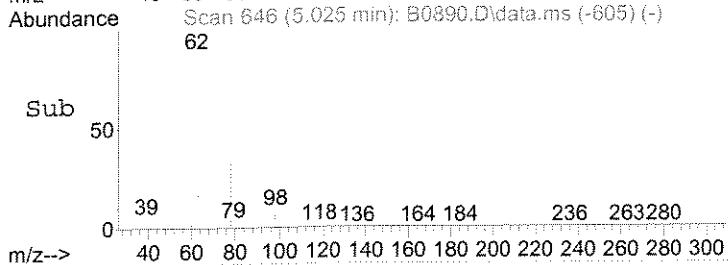
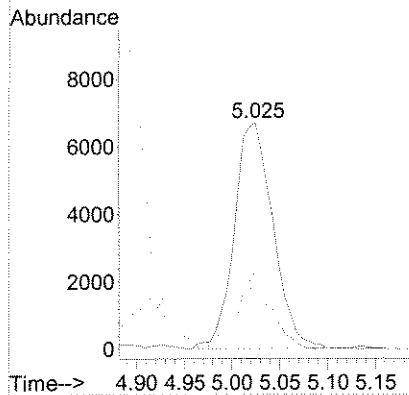
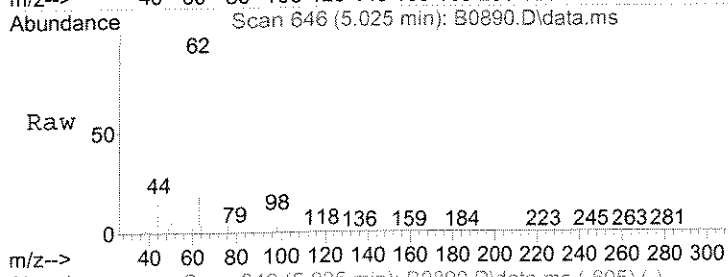
Tgt Ion	Resp	Lower	Upper
78	100		
51	19.7	13.4	20.2
52	16.9	12.6	18.8





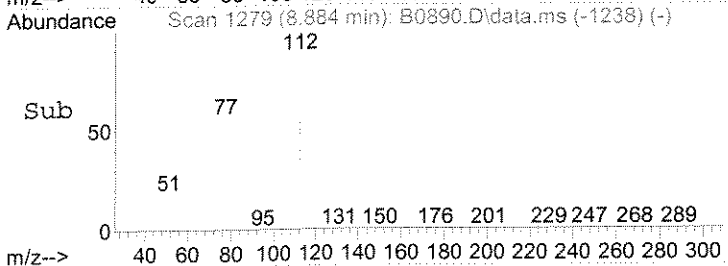
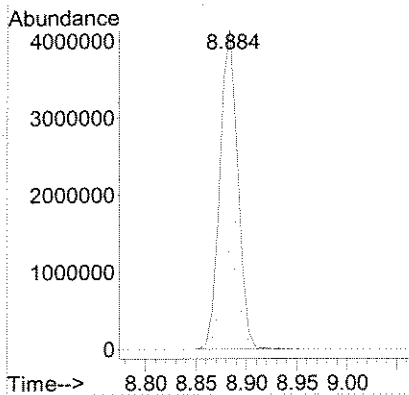
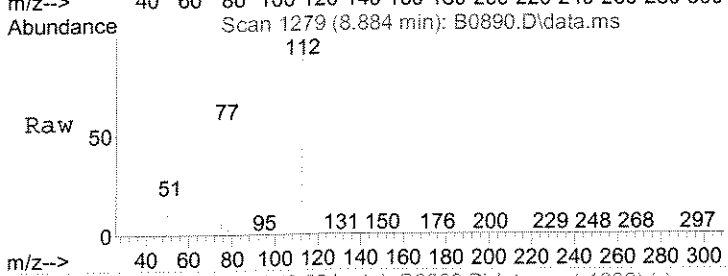
#51
 1,2-Dichloroethane
 Concen: 1.26 ug/L
 RT: 5.025 min Scan# 646
 Delta R.T. 0.000 min
 Lab File: B0890.D
 Acq: 2 Jul 2008 8:19 pm

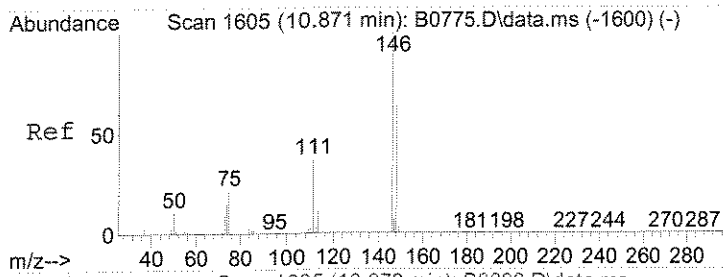
Tgt Ion	Resp	Lower	Upper
62	18887		
64	34.8	26.5	39.7
49	28.7	20.2	30.4



#77
 Chlorobenzene
 Concen: 155.49 ug/L
 RT: 8.884 min Scan# 1279
 Delta R.T. 0.000 min
 Lab File: B0890.D
 Acq: 2 Jul 2008 8:19 pm

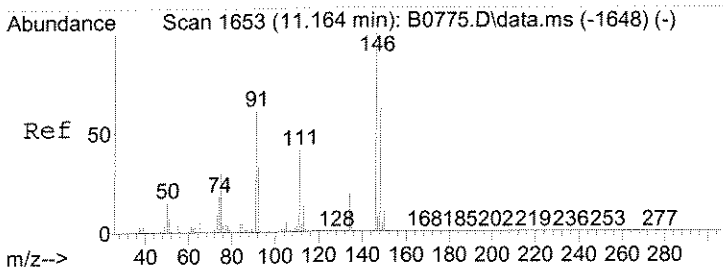
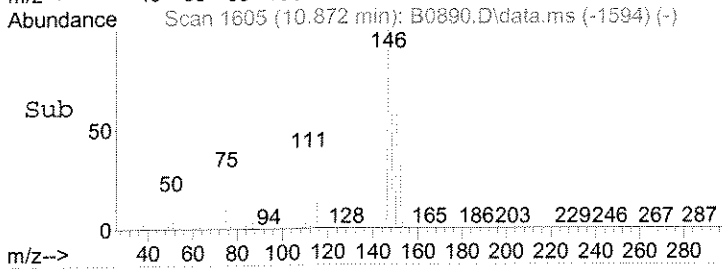
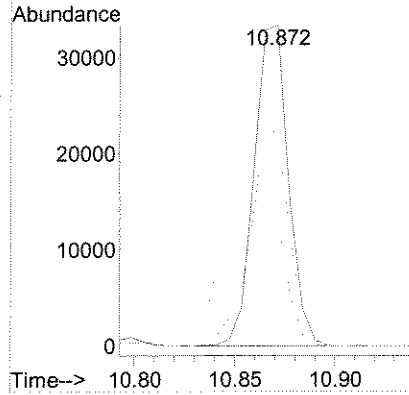
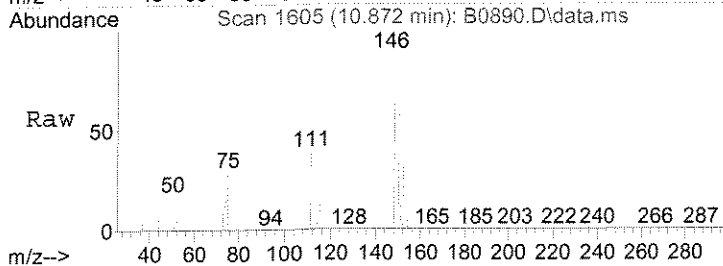
Tgt Ion	Resp	Lower	Upper
112	5127312		
114	32.0	25.8	38.6
77	56.3	45.0	67.6





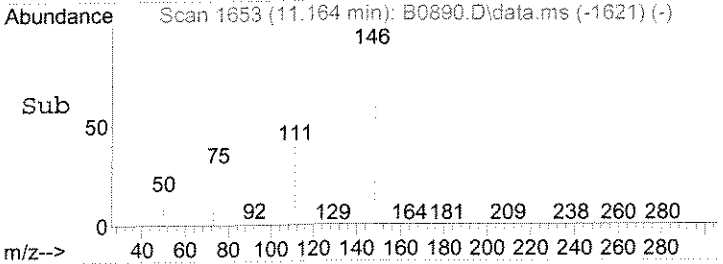
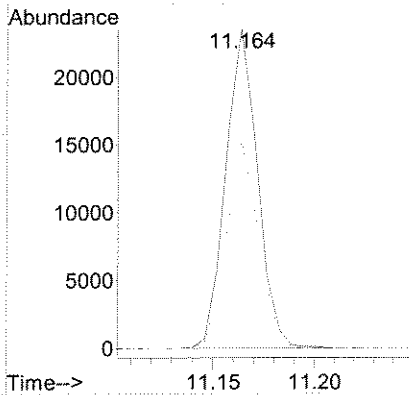
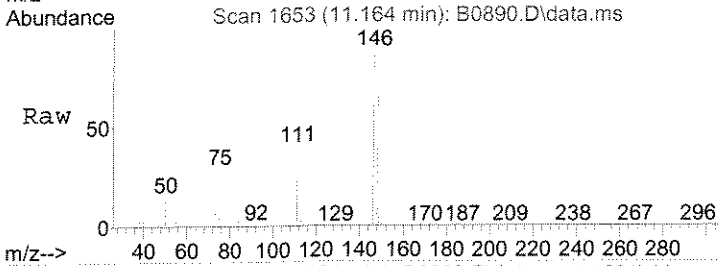
#101
 1,4-DcIbenz
 Concen: 1.43 ug/L
 RT: 10.872 min Scan# 1605
 Delta R.T. 0.000 min
 Lab File: B0890.D
 Acq: 2 Jul 2008 8:19 pm

Tgt Ion	Resp	Lower	Upper
146	100		
148	65.6	51.2	76.8
111	38.6	30.0	45.0



#104
 1,2-DcIbenz
 Concen: 1.02 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. 0.000 min
 Lab File: B0890.D
 Acq: 2 Jul 2008 8:19 pm

Tgt Ion	Resp	Lower	Upper
146	100		
148	65.0	50.3	75.5
111	39.7	33.0	49.4



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : EB062608GW3

Date Sampled : 06/26/08 14:00 Order #: 1112812 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	3.3 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	1.2 J	UG/L
TERT-BUTYL ALCOHOL	100	3.1 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	0.29 J	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	11	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	0.24 J	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : EB062608GW3

Date Sampled : 06/26/08 14:00 Order #: 1112812 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.25 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	0.48 J	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	105	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Sample : 1112812 1.0
 Data File : J:\ACQUADATA\MSVOA10\DATA\070208\B0891.D Vial: 12
 Acq On : 2 Jul 2008 8:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 02 21:03:27 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

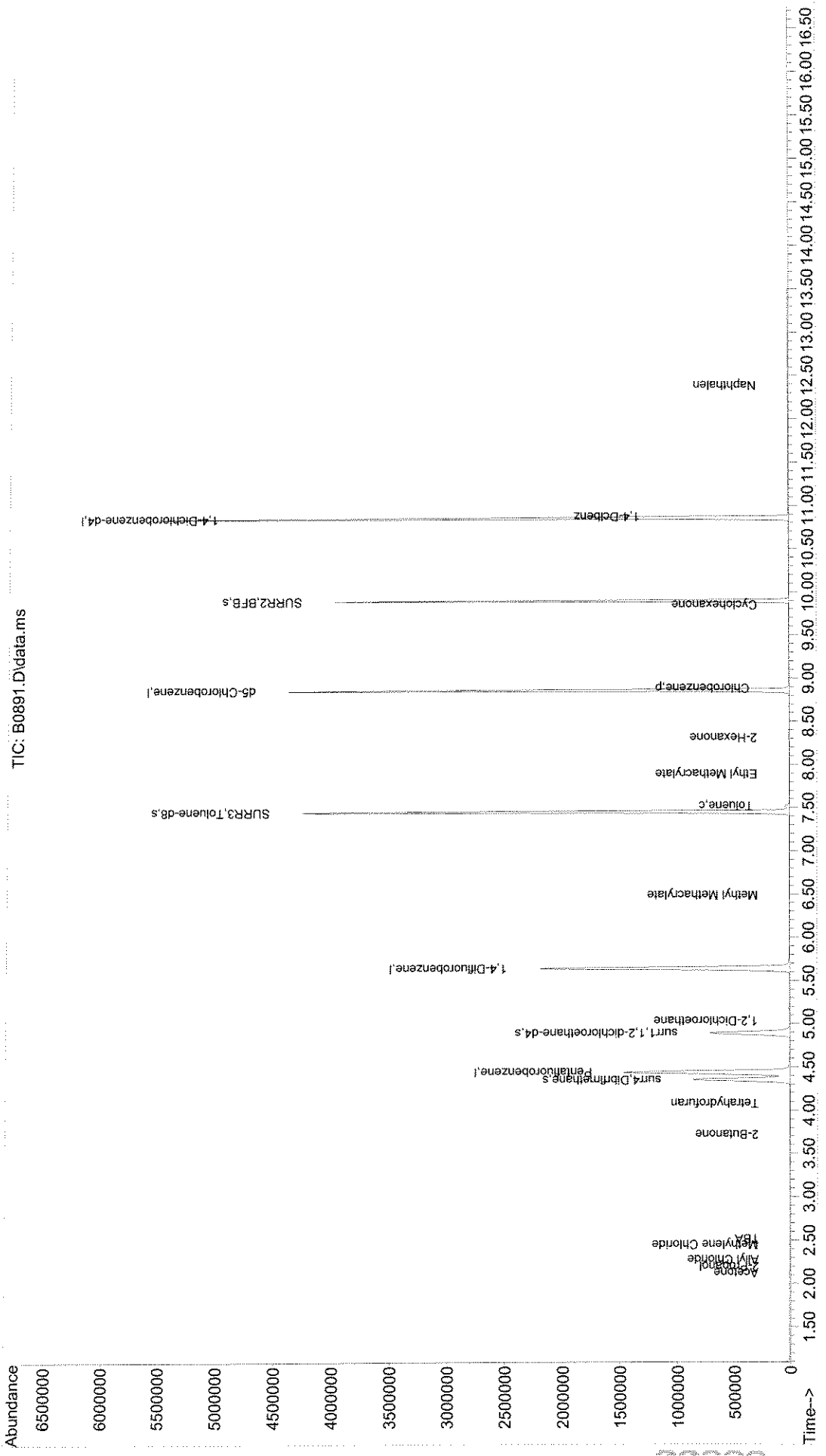
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.440	168	1317491	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2140882	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1966475	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1048240	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	683781	48.48	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	96.96%		
49) surr1,1,2-dichloroetha...	4.891	65	718621	53.40	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.80%		
65) SURR3,Toluene-d8	7.451	98	2534325	54.38	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.76%		
70) SURR2,BFB	9.896	95	1011837	52.72	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.44%		
Target Compounds							
							Qvalue
16) Acetone	2.123	43	5355	3.29	ug/L		97 JB
17) 2-Propanol	2.196	45	1131	3.27	ug/L #		90 NT
21) Allyl Chloride	2.275	76	1626	0.33	ug/L #		1
23) Methylene Chloride	2.446	84	2745	0.25	ug/L #		92 J
24) TBA	2.513	59	1697	3.09	ug/L		94 JB
35) 2-Butanone	3.720	43	3279	1.20	ug/L #		97 J
40) Tetrahydrofuran	4.080	42	2013	1.29	ug/L #		58 NT
51) 1,2-Dichloroethane	5.031	62	3623	0.24	ug/L		93 J
59) Methyl Methacrylate	6.488	69	264	1.50	ug/L #		56 NT
66) Toluene	7.518	91	22655	0.48	ug/L #		97 J
68) Ethyl Methacrylate	7.890	69	2400	1.79	ug/L		90 NT
73) 2-Hexanone	8.311	43	1090	0.25	ug/L #		39
77) Chlorobenzene	8.884	112	9407	0.29	ug/L		92 J
85) Cyclohexanone	9.847	55	297	0.33	ug/L #		28
101) 1,4-Dclbenz	10.871	146	303242	11.10	ug/L		99
109) Naphthalen	12.383	128	818	0.55	ug/L #		92 CLR

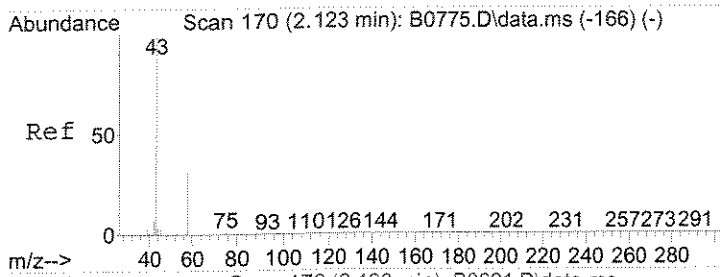
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FN
7/8/08

Sample : 1112812 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070208\B0891.D Vial: 12
 Acq On : 2 Jul 2008 8:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

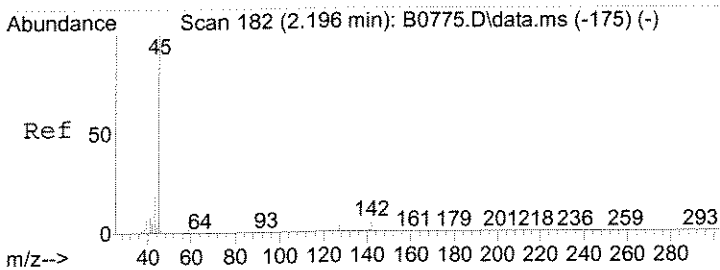
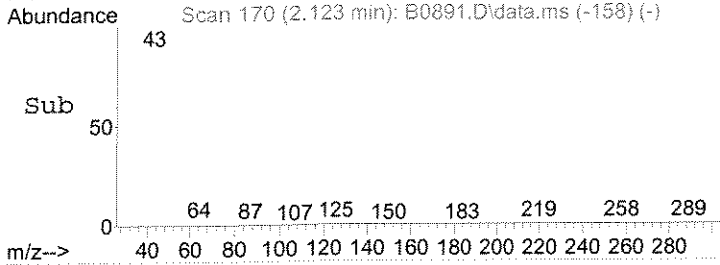
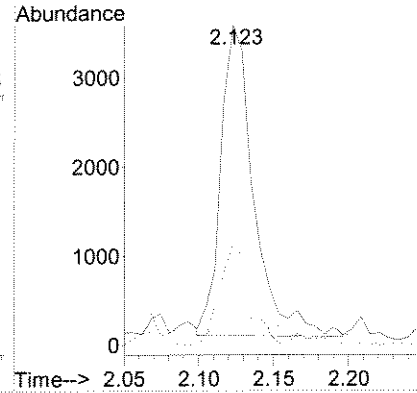
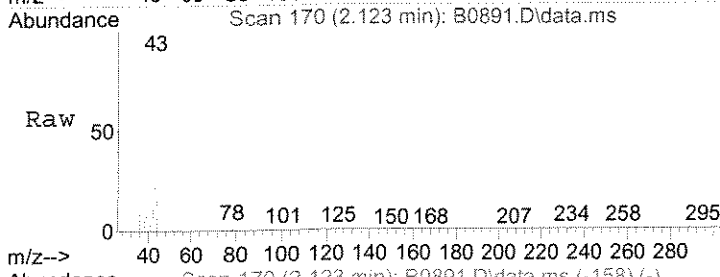
Quant Time: Jul 02 21:03:27 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





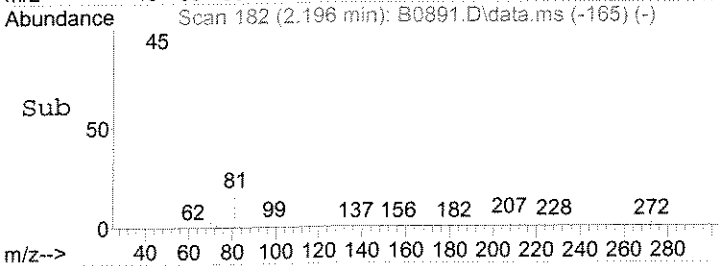
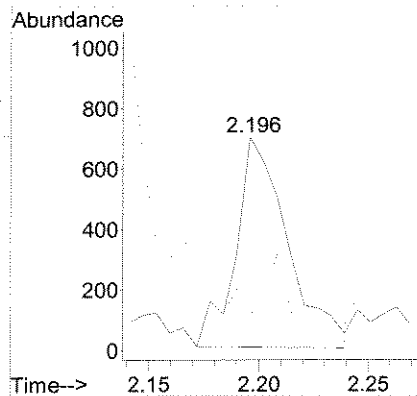
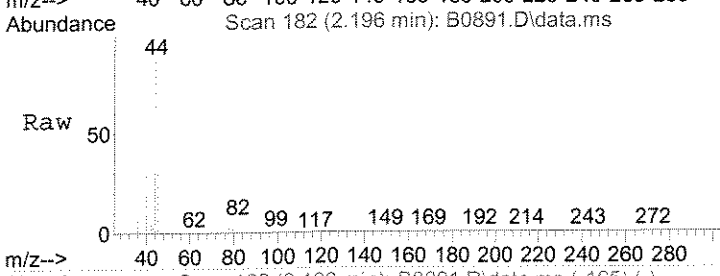
#16
 Acetone
 Concen: 3.29 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

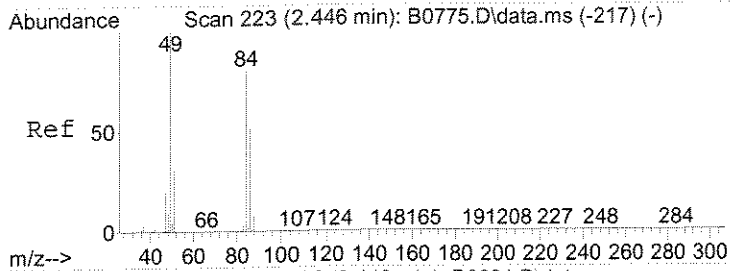
Tgt Ion	Resp	Lower	Upper
43	5355		
58	31.6	0.9	60.9
42	11.1	0.0	37.2



#17
 2-Propanol
 Concen: 3.27 ug/L
 RT: 2.196 min Scan# 182
 Delta R.T. -0.006 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

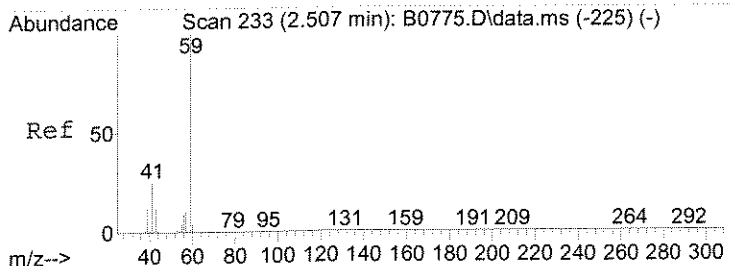
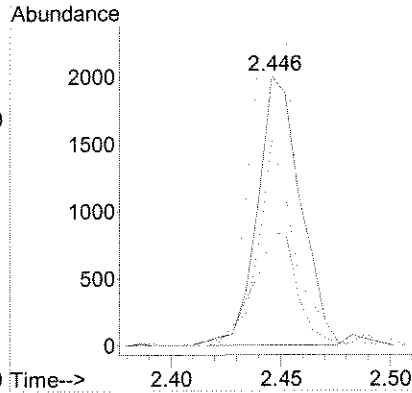
Tgt Ion	Resp	Lower	Upper
45	1131		
43	16.3	17.0	25.4#





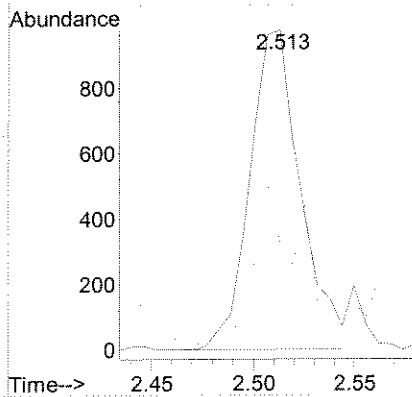
#23
 Methylene Chloride
 Concen: 0.25 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

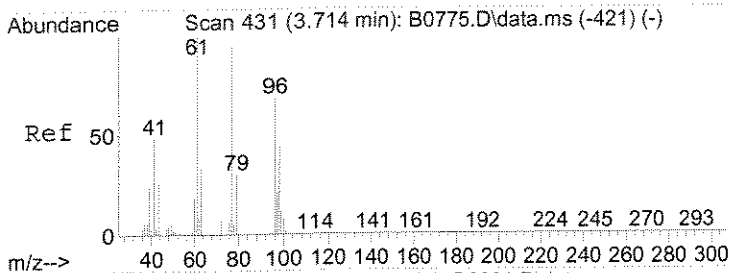
Tgt Ion	Ratio	Lower	Upper
84	100		
86	76.1	50.5	75.7#
49	118.0	99.5	149.3
51	41.3	31.1	46.7



#24
 TBA
 Concen: 3.09 ug/L
 RT: 2.513 min Scan# 234
 Delta R.T. 0.006 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

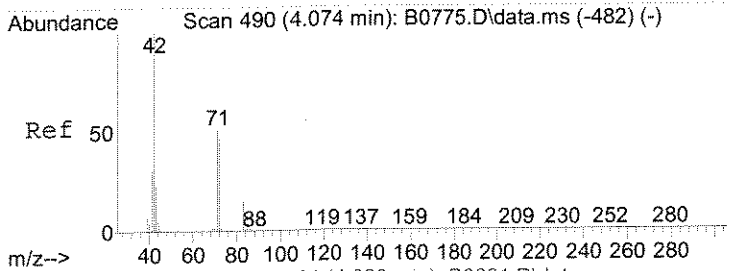
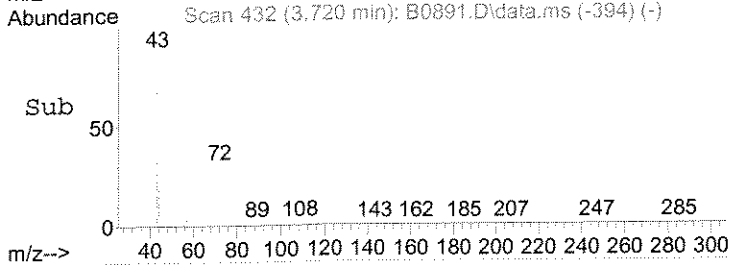
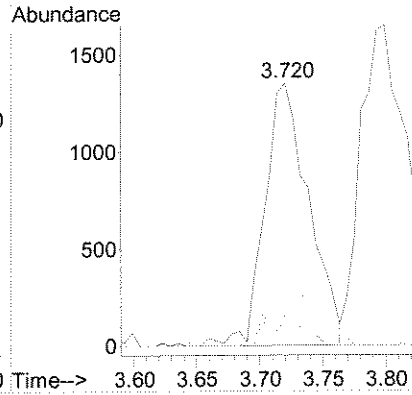
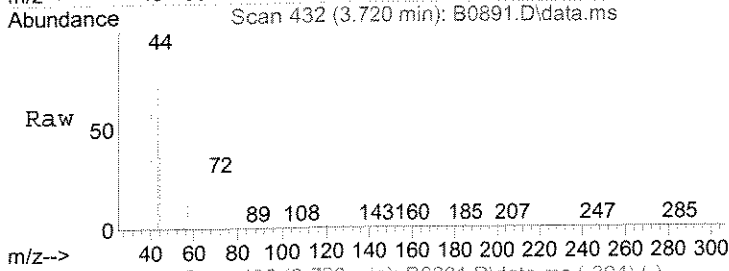
Tgt Ion	Ratio	Lower	Upper
59	100		
41	32.5	14.5	43.6





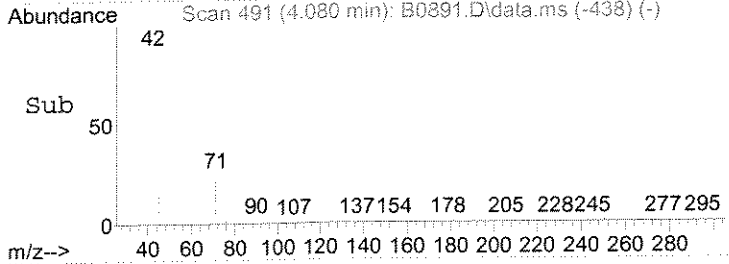
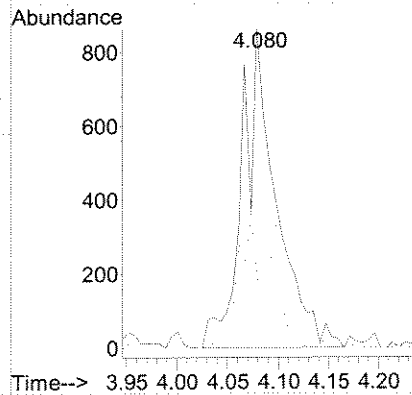
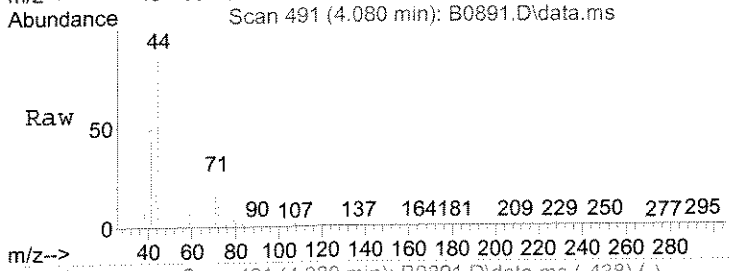
#35
 2-Butanone
 Concen: 1.20 ug/L
 RT: 3.720 min Scan# 432
 Delta R.T. 0.006 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

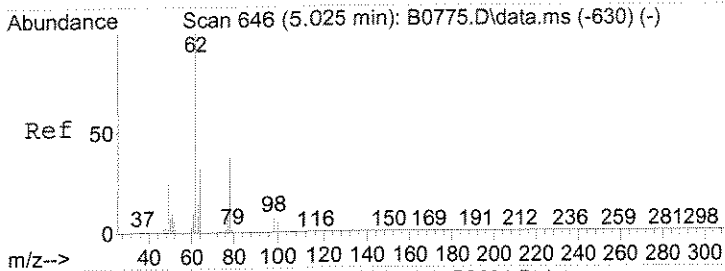
Tgt Ion	Ratio	Lower	Upper
43	100		
57	12.6	7.4	11.0#
72	28.1	22.1	33.1



#40
 Tetrahydrofuran
 Concen: 1.29 ug/L
 RT: 4.080 min Scan# 491
 Delta R.T. 0.006 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

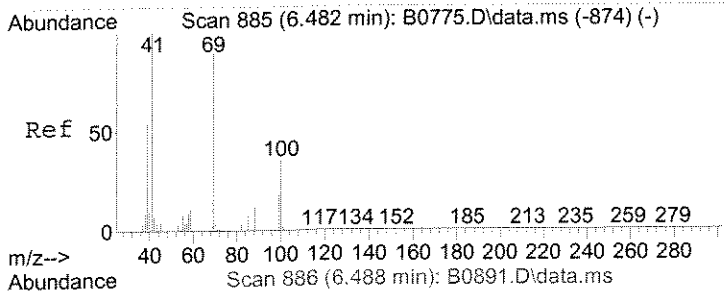
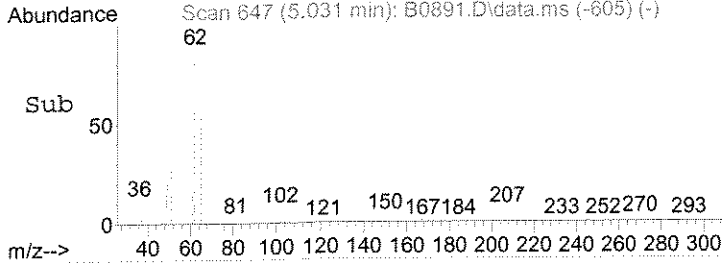
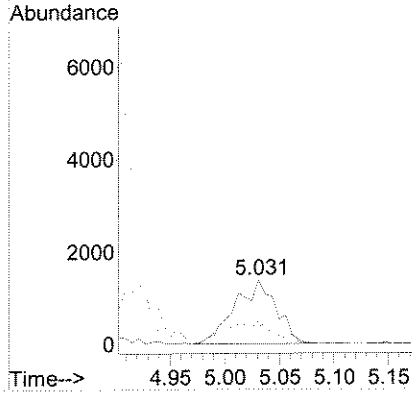
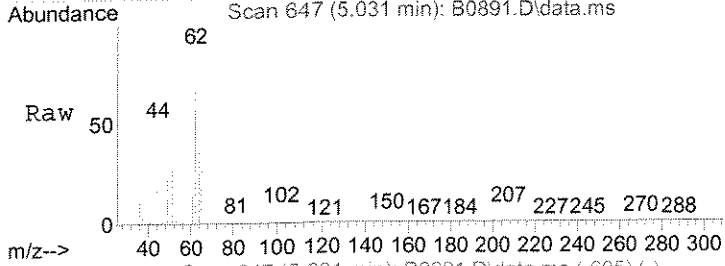
Tgt Ion	Ratio	Lower	Upper
42	100		
72	19.1	37.4	56.2#





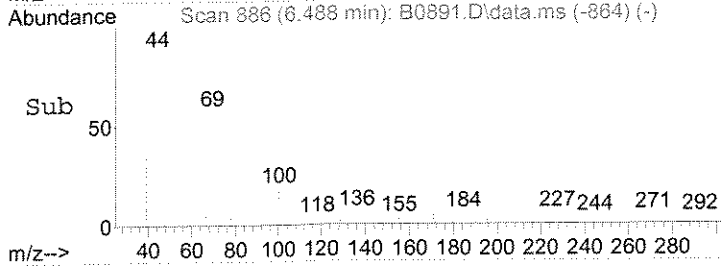
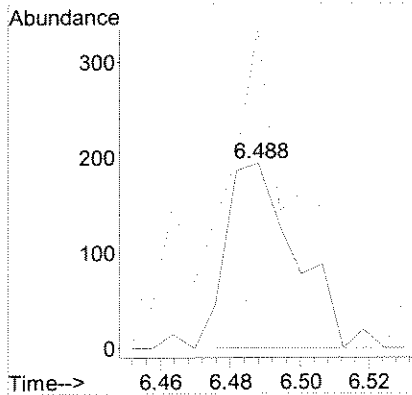
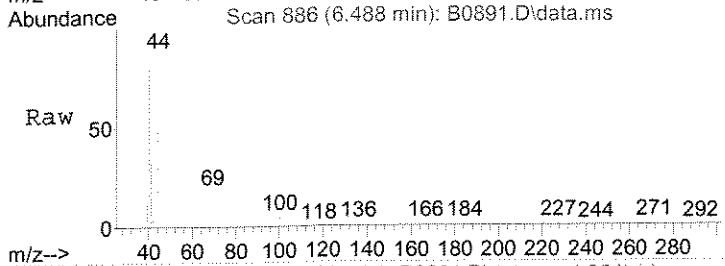
#51
 1,2-Dichloroethane
 Concen: 0.24 ug/L
 RT: 5.031 min Scan# 647
 Delta R.T. 0.006 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

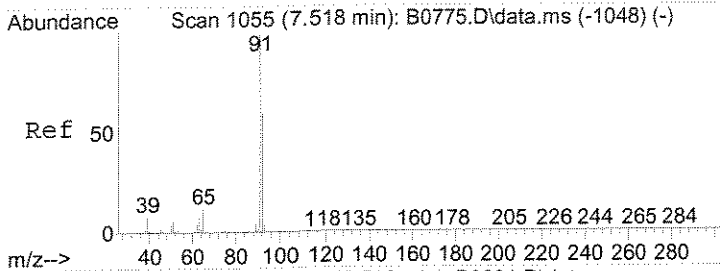
Tgt Ion	Resp	Lower	Upper
62	3623		
64	36.5	26.5	39.7
49	29.2	20.2	30.4



#59
 Methyl Methacrylate
 Concen: 1.50 ug/L
 RT: 6.488 min Scan# 886
 Delta R.T. 0.006 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

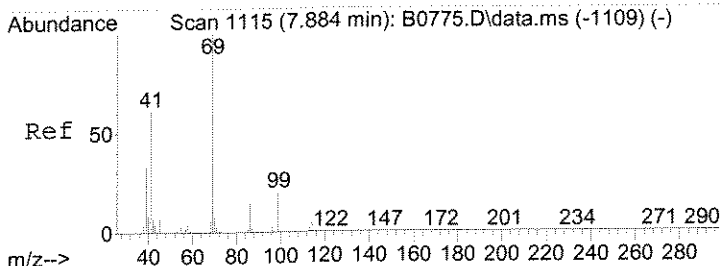
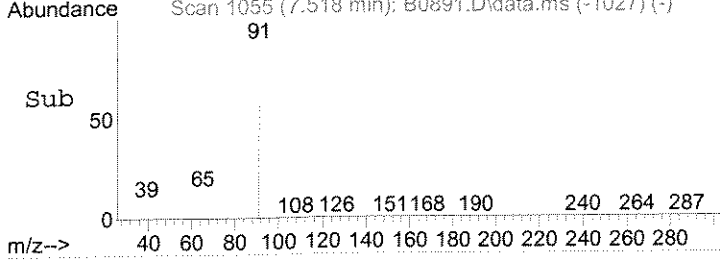
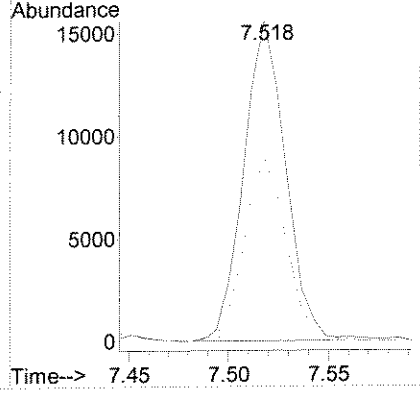
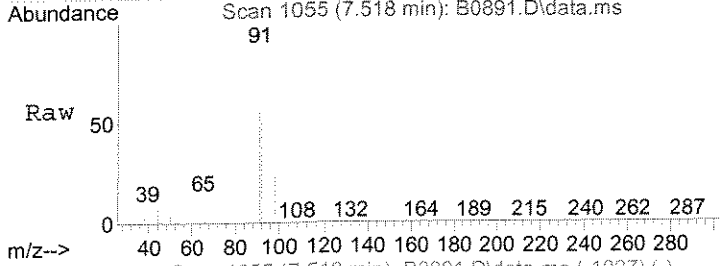
Tgt Ion	Resp	Lower	Upper
69	264		
41	172.7	90.3	135.5#
100	33.0	31.9	47.9





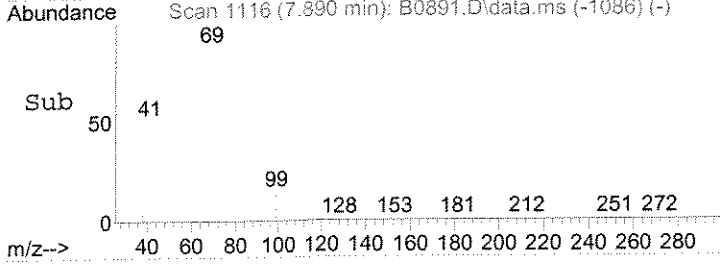
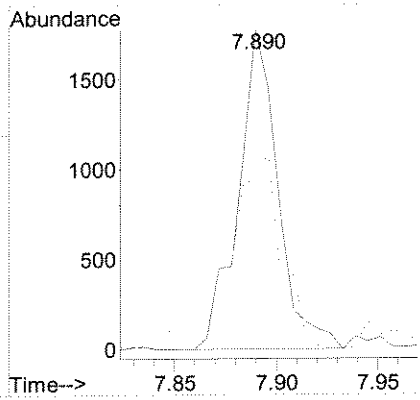
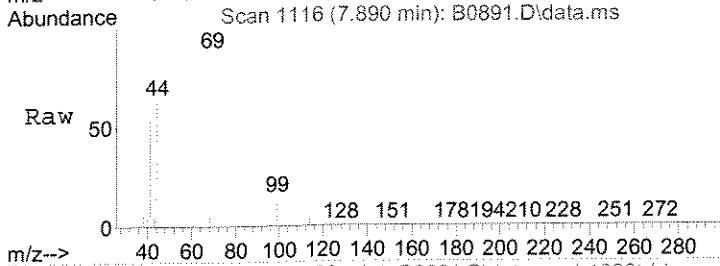
#66
 Toluene
 Concen: 0.48 ug/L
 RT: 7.518 min Scan# 1055
 Delta R.T. -0.000 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

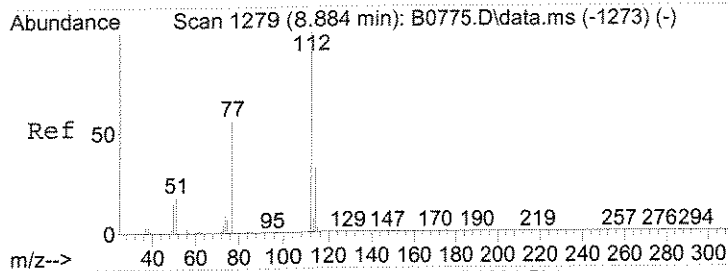
Tgt Ion	Resp	Lower	Upper
91	100		
92	57.2	47.1	70.7
65	14.5	9.3	13.9#



#68
 Ethyl Methacrylate
 Concen: 1.79 ug/L
 RT: 7.890 min Scan# 1116
 Delta R.T. 0.000 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

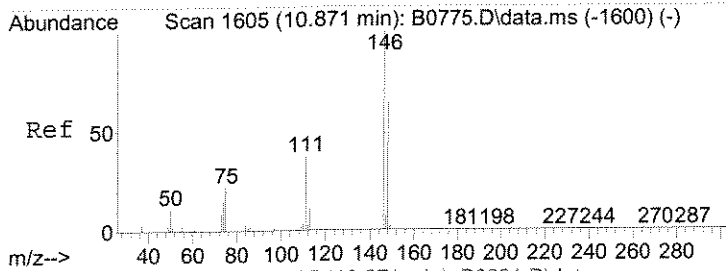
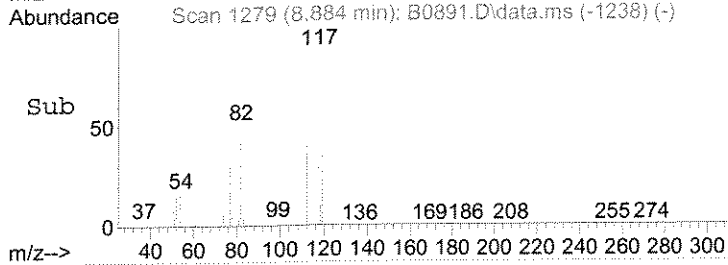
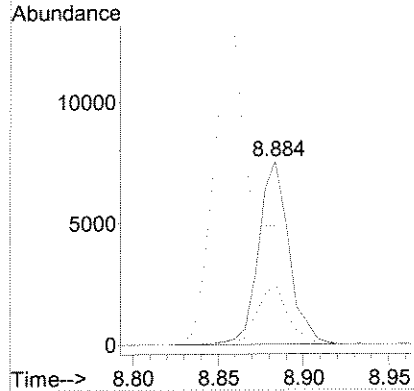
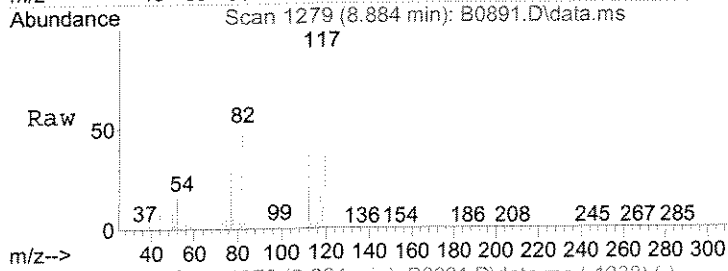
Tgt Ion	Resp	Lower	Upper
69	100		
41	53.6	49.2	73.8





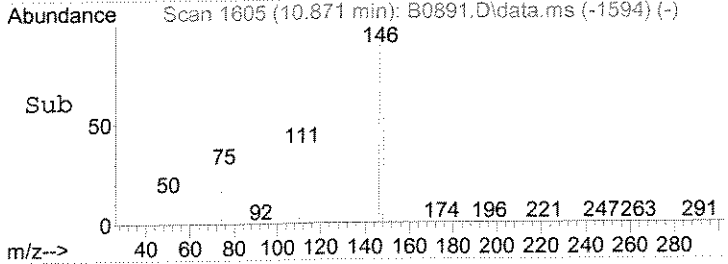
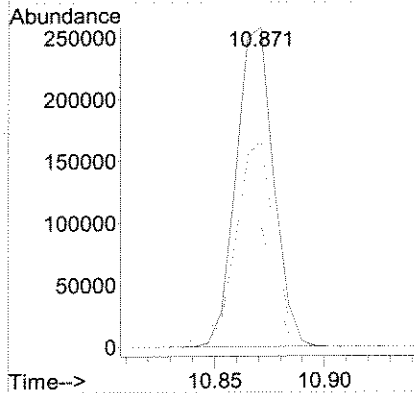
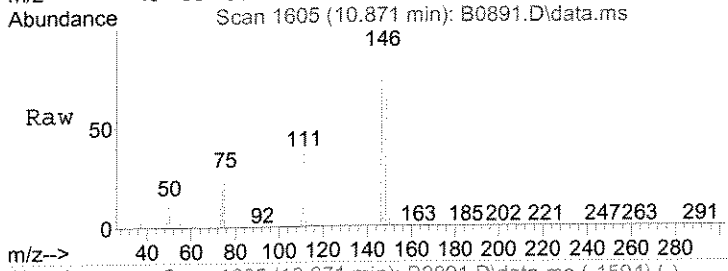
#77
 Chlorobenzene
 Concen: 0.29 ug/L
 RT: 8.884 min Scan# 1279
 Delta R.T. -0.000 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	9407		
114	33.1		25.8	38.6
77	64.9		45.0	67.6



#101
 1,4-Dclbenz
 Concen: 11.10 ug/L
 RT: 10.871 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0891.D
 Acq: 2 Jul 2008 8:49 pm

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	303242		
148	64.6		51.2	76.8
111	37.6		30.0	45.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
 Client Sample ID : TRIP BLANK

Date Sampled : 06/25/08 Order #: 1112813 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.8 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	4.9 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : TRIP BLANK

Date Sampled : 06/25/08 Order #: 1112813 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Sample : 1112813 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070208\B0892.D Vial: 13
 Acq On : 2 Jul 2008 9:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 02 21:33:23 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

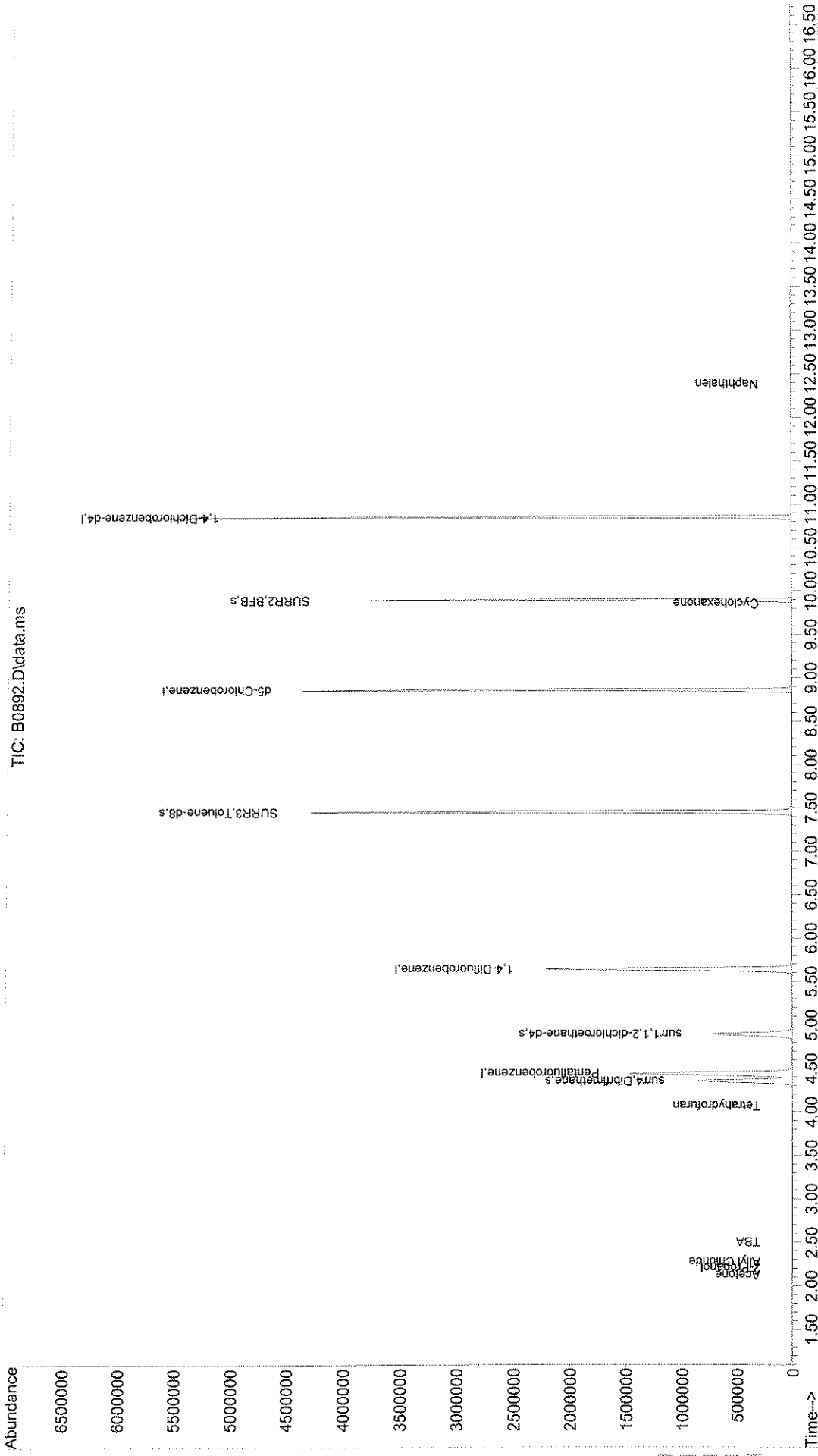
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.440	168	1312398	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2130924	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1955720	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1049029	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	677385	48.18	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	96.36%		
49) surr1,1,2-dichloroetha...	4.891	65	723210	53.99	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.98%		
65) SURR3,Toluene-d8	7.451	98	2525295	54.44	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.88%		
70) SURR2,BFB	9.896	95	1017035	53.24	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.48%		
Target Compounds							
16) Acetone	2.123	43	2935	1.81	ug/L	98	JB
17) 2-Propanol	2.202	45	967	2.81	ug/L #	56	NT
21) Allyl Chloride	2.276	76	1785	0.36	ug/L #	1	
24) TBA	2.507	59	2668	4.88	ug/L	82	JB
40) Tetrahydrofuran	4.068	42	608	0.39	ug/L #	55	NT
85) Cyclohexanone	9.853	55	1825	2.06	ug/L #	28	
109) Naphthalen	12.377	128	582	0.55	ug/L #	74	LR

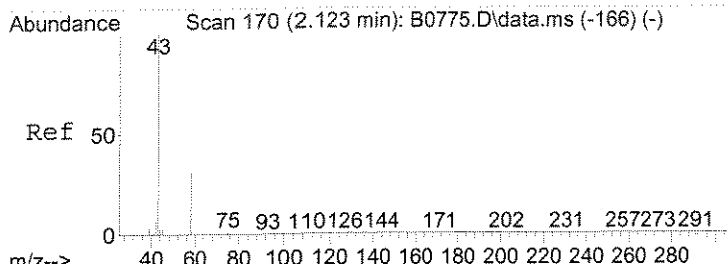
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FN
7/8/08

Sample : 1112813 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070208\B0892.D Vial: 13
 Acq On : 2 Jul 2008 9:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

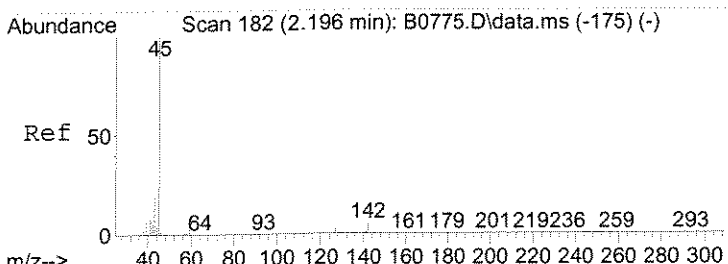
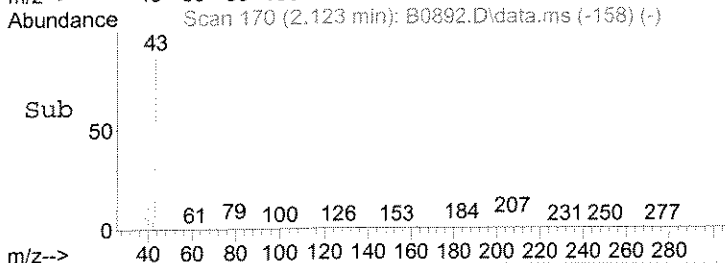
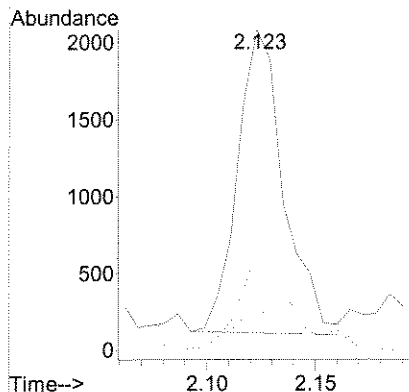
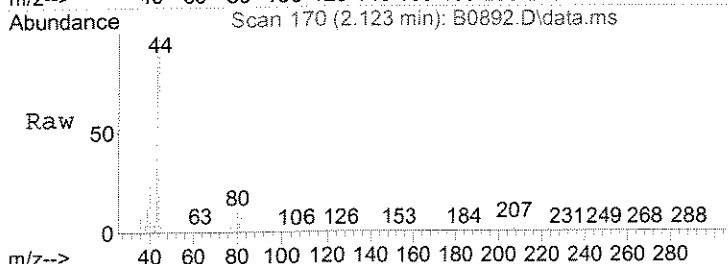
Quant Time: Jul 02 21:33:23 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





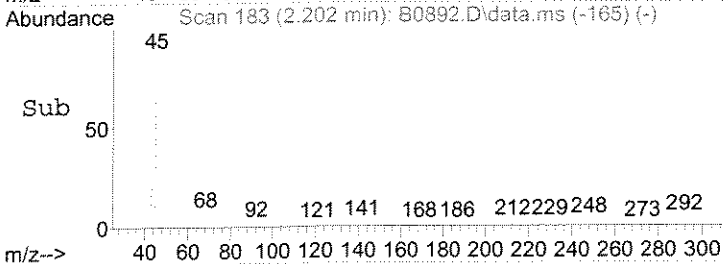
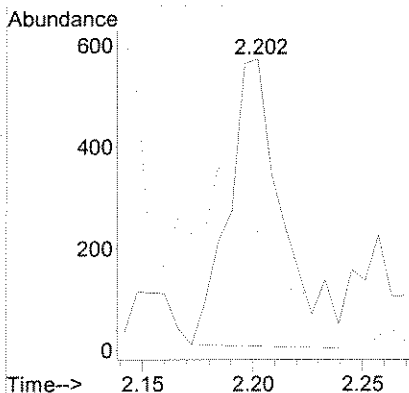
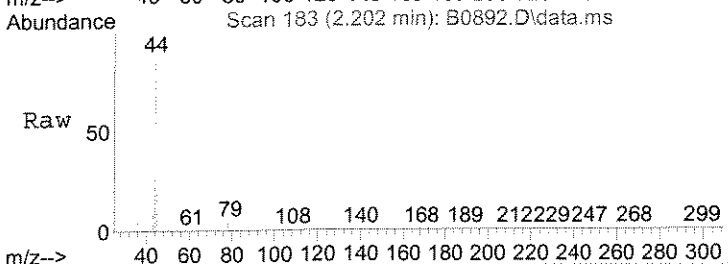
#16
 Acetone
 Concen: 1.81 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0892.D
 Acq: 2 Jul 2008 9:19 pm

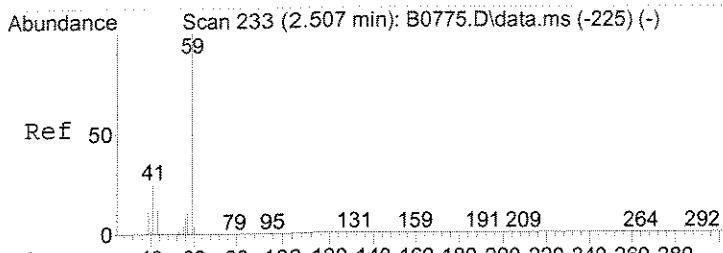
Tgt Ion	Resp	Lower	Upper
43	100		
58	31.7	0.9	60.9
42	9.4	0.0	37.2



#17
 2-Propanol
 Concen: 2.81 ug/L
 RT: 2.202 min Scan# 183
 Delta R.T. -0.000 min
 Lab File: B0892.D
 Acq: 2 Jul 2008 9:19 pm

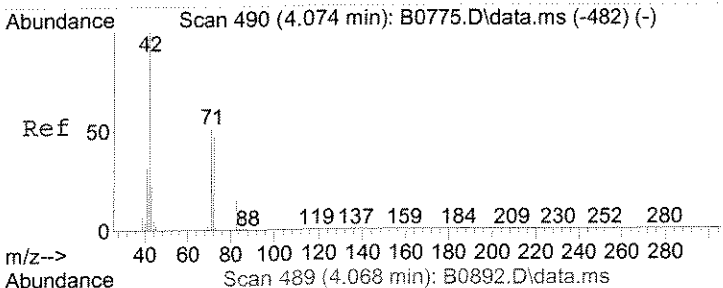
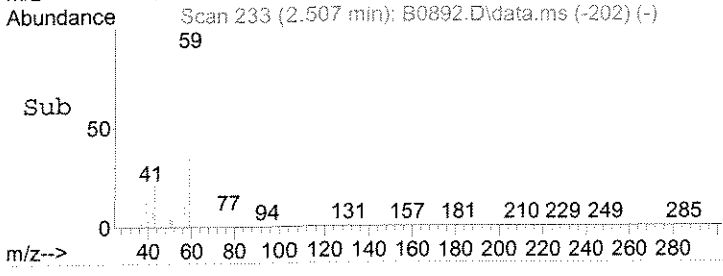
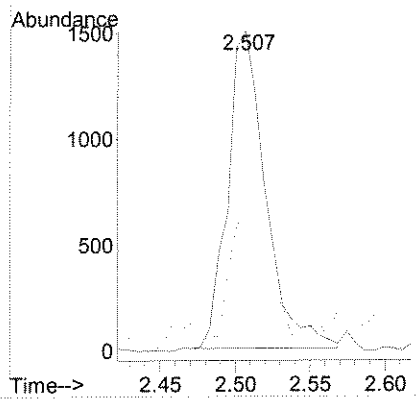
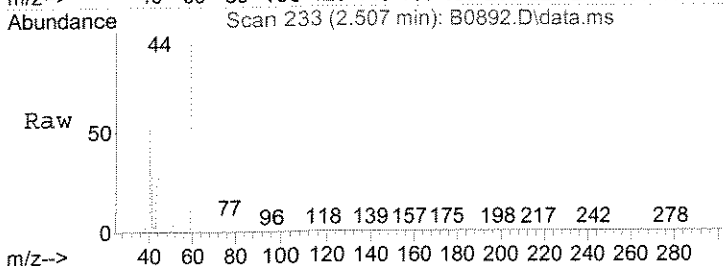
Tgt Ion	Resp	Lower	Upper
45	100		
43	42.1	17.0	25.4#





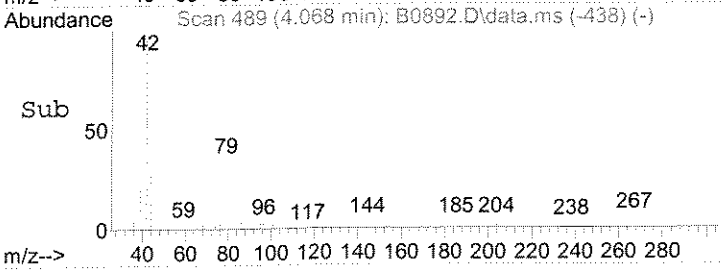
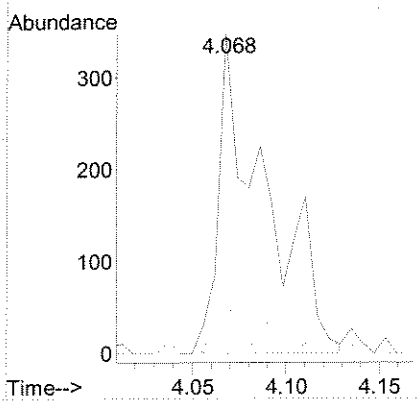
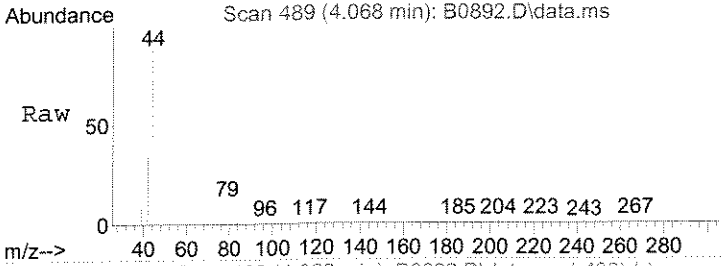
#24
 TBA
 Concen: 4.88 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0892.D
 Acq: 2 Jul 2008 9:19 pm

Tgt Ion	Resp	Lower	Upper
59	100		
41	38.9	14.5	43.6



#40
 Tetrahydrofuran
 Concen: 0.39 ug/L
 RT: 4.068 min Scan# 489
 Delta R.T. -0.006 min
 Lab File: B0892.D
 Acq: 2 Jul 2008 9:19 pm

Tgt Ion	Resp	Lower	Upper
42	100		
72	17.0	37.4	56.2#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-61B

Date Sampled : 06/26/08 11:00 Order #: 1112871 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.2 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	1.8 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	0.26 J	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	260 E	UG/L
CHLOROMETHANE	2.0	1.4 J	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	0.27 J	UG/L
1,4-DICHLOROBENZENE	2.0	1.0 J	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	0.24 J	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
 Client Sample ID : M-61B

Date Sampled : 06/26/08 11:00 Order #: 1112871 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.23 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	0.65 J	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	0.79 J	UG/L
1,2,3-TRICHLOROBENZENE	2.0	0.35 J	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	100	%

Sample : 1112871 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070208\B0893.D Vial: 14
 Acq On : 2 Jul 2008 9:48 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 02 22:03:11 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

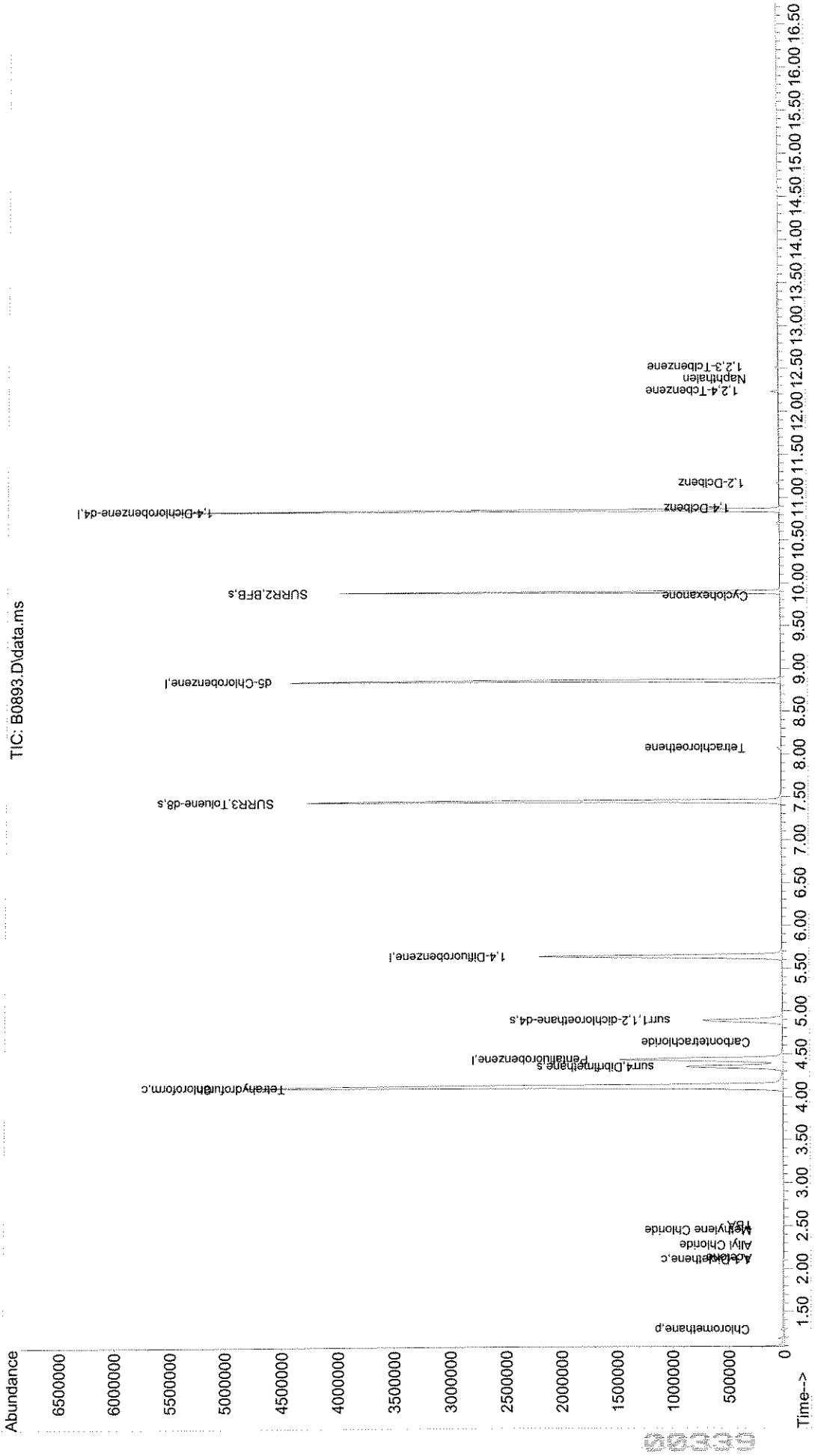
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1305899	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2119053	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1954289	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1047735	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	690473	49.79	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	99.58%		
49) surr1,1,2-dichloroetha...	4.891	65	724983	54.43	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.86%		
65) SURR3,Toluene-d8	7.445	98	2510631	54.43	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.86%		
70) SURR2,BFB	9.896	95	1014655	53.41	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.82%		
Target Compounds							
							Qvalue
4) Chloromethane	1.294	50	13306	1.37	ug/L	96	96 JS
14) 1,1-Dicethene	2.105	96	2072	0.24	ug/L	94	94 JS
16) Acetone	2.123	43	1957	1.21	ug/L	79	79 JS
21) Allyl Chloride	2.276	76	2007	0.41	ug/L #	1	1
23) Methylene Chloride	2.446	84	2534	0.23	ug/L #	91	91 JS
24) TBA	2.507	59	994	1.83	ug/L	76	76 JS
40) Tetrahydrofuran	4.111	42	8714	5.62	ug/L #	1	1
41) Chloroform	4.117	83	4875661	257.33	ug/L	99	99 E
47) Carbontetrachloride	4.635	121	1376	0.26	ug/L	87	87 JS
72) Tetrachloroethene	8.073	164	6295	0.65	ug/L #	86	86 JS
85) Cyclohexanone	9.847	55	295	0.33	ug/L #	27	27
101) 1,4-Dclbenz	10.872	146	27515	1.01	ug/L	99	99 JS
104) 1,2-Dclbenz	11.164	146	6745	0.27	ug/L	97	97 JS
107) 1,2,4-Tcbenzene	12.237	180	13416	0.79	ug/L	97	97 JS
109) Naphthalen	12.377	128	435	0.54	ug/L #	74	74 CLR
110) 1,2,3-Tclbenzene	12.518	180	5514	0.35	ug/L	85	85 JS

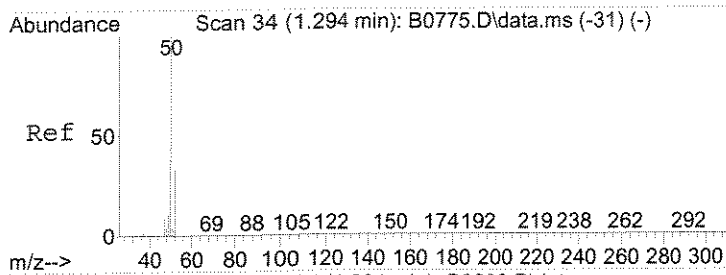
(#) = qualifier out of range (m) = manual integration (+) = signals summed

RPT 1/2
 FN 7/8/08

Sample : 1112871 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070208\B0893.D Vial: 14
 Acq On : 2 Jul 2008 9:48 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

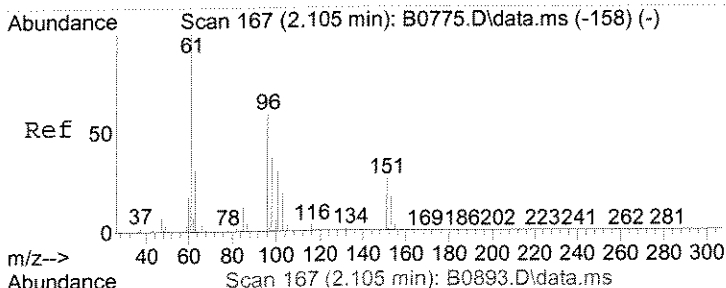
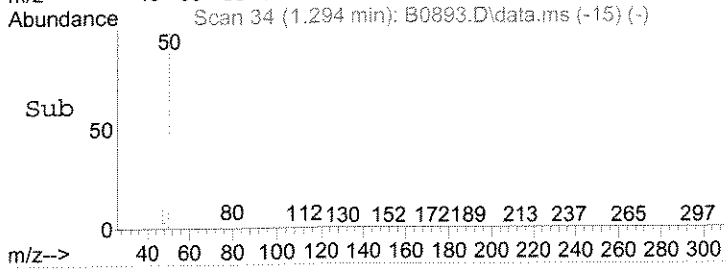
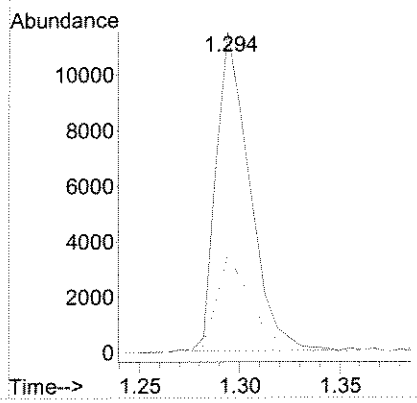
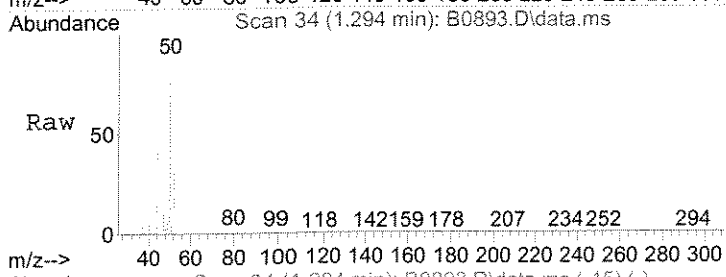
Quant Time: Jul 02 22:03:11 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





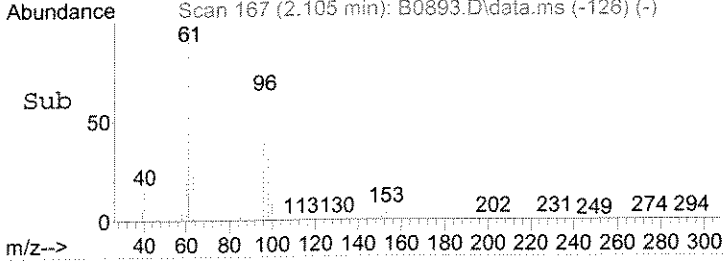
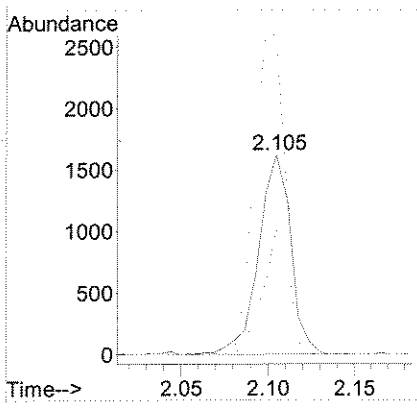
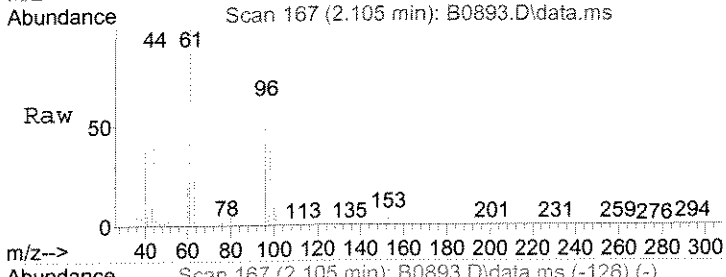
#4
 Chloromethane
 Concen: 1.37 ug/L
 RT: 1.294 min Scan# 34
 Delta R.T. -0.000 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

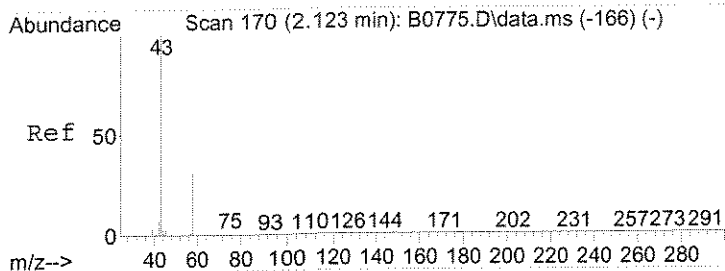
Tgt Ion	Resp	Lower	Upper
50	100		
52	30.7	3.1	63.1



#14
 1,1-Dicylethane
 Concen: 0.24 ug/L
 RT: 2.105 min Scan# 167
 Delta R.T. -0.000 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

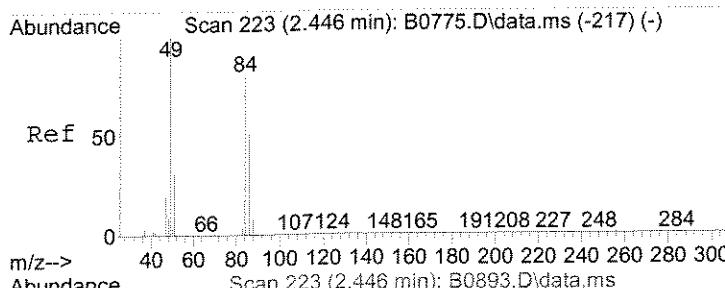
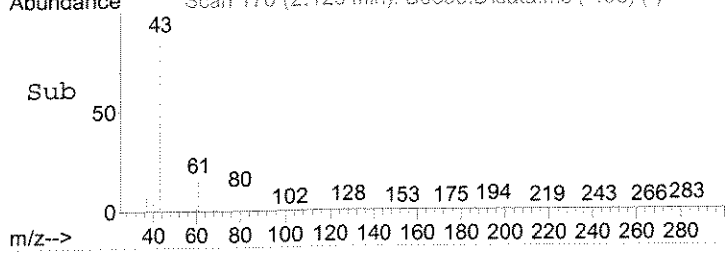
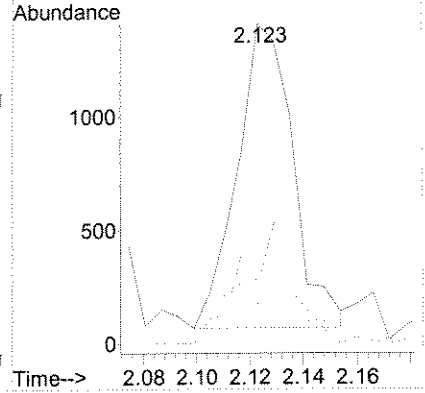
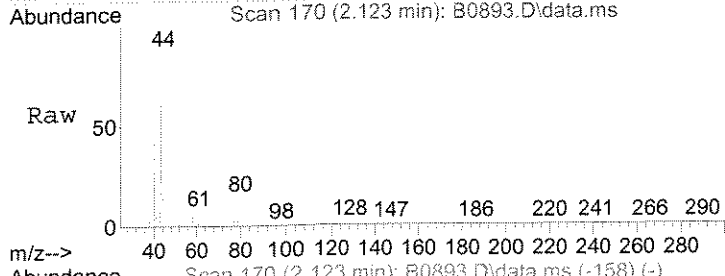
Tgt Ion	Resp	Lower	Upper
96	100		
98	62.7	33.7	93.7
61	159.9	140.7	200.7





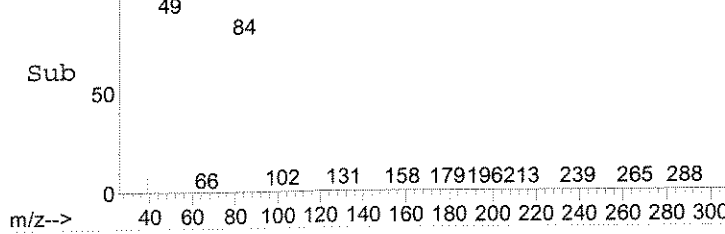
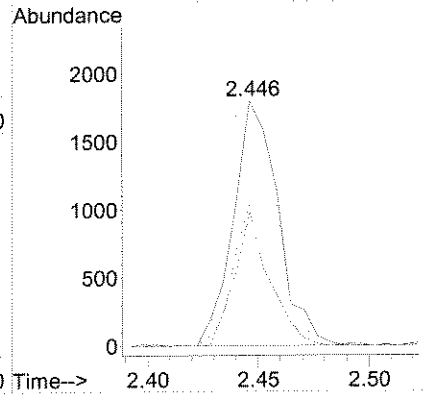
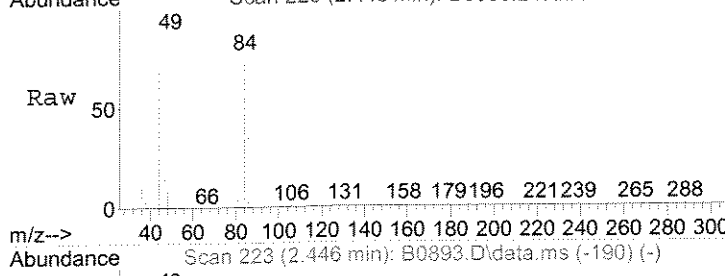
#16
 Acetone
 Concen: 1.21 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

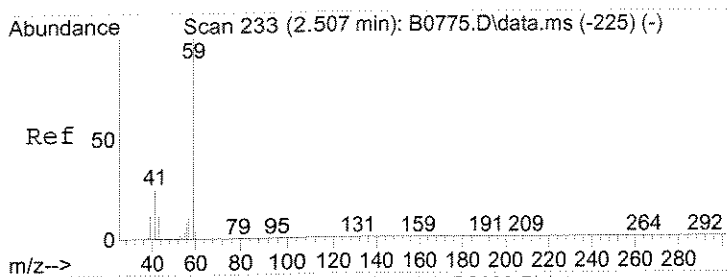
Tgt Ion	Ratio	Lower	Upper
43	100		
58	18.5	0.9	60.9
42	12.3	0.0	37.2



#23
 Methylene Chloride
 Concen: 0.23 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

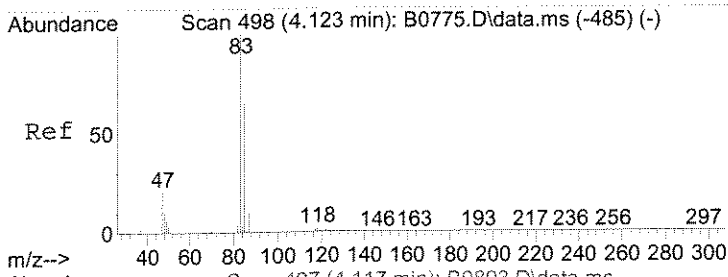
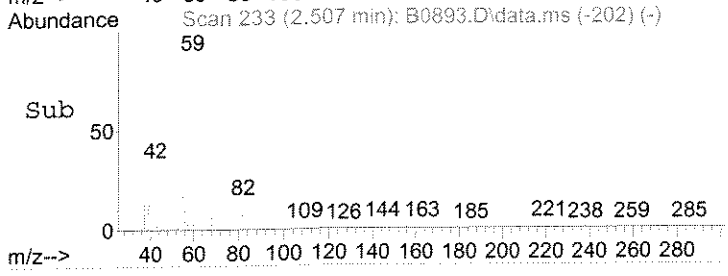
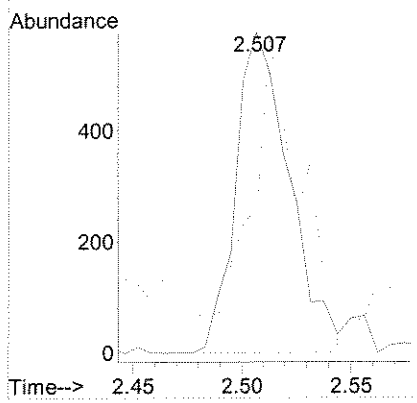
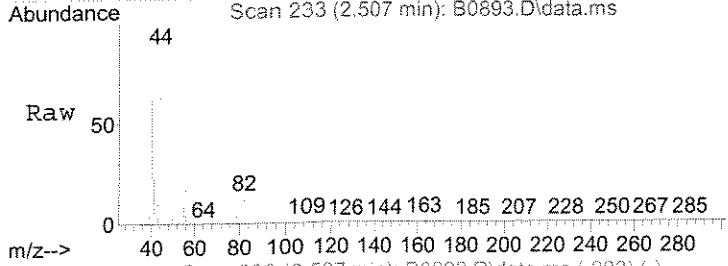
Tgt Ion	Ratio	Lower	Upper
84	100		
86	58.5	50.5	75.7
49	130.4	99.5	149.3
51	54.9	31.1	46.7#





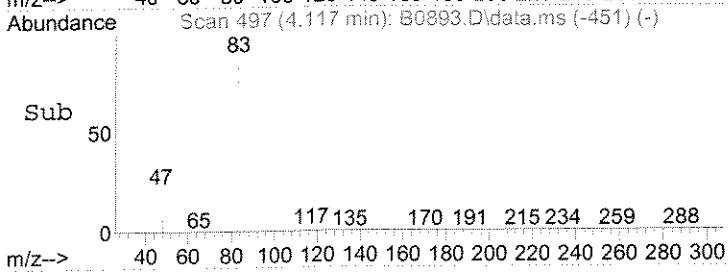
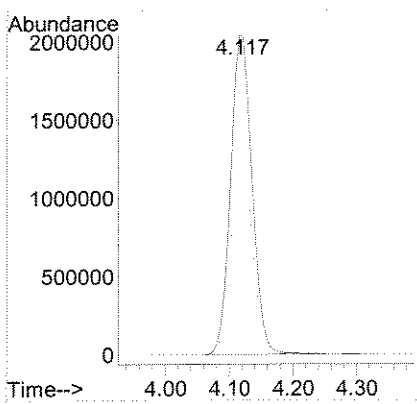
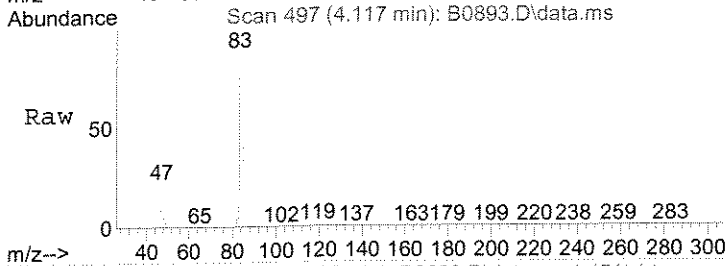
#24
 TBA
 Concen: 1.83 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

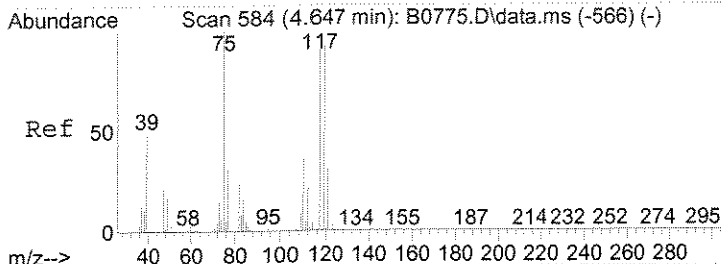
Tgt Ion	Resp	Lower	Upper
59	100		
41	42.1	14.5	43.6



#41
 Chloroform
 Concen: 257.33 ug/L
 RT: 4.117 min Scan# 497
 Delta R.T. -0.006 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

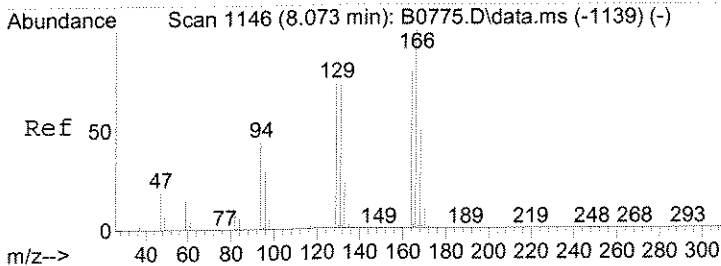
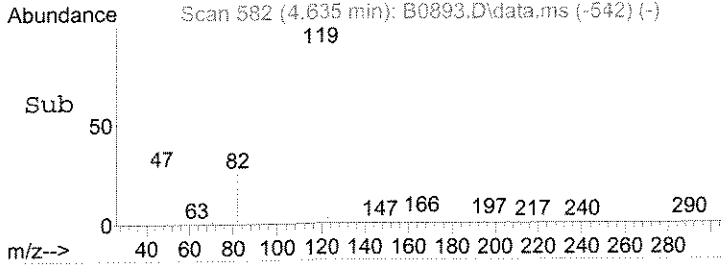
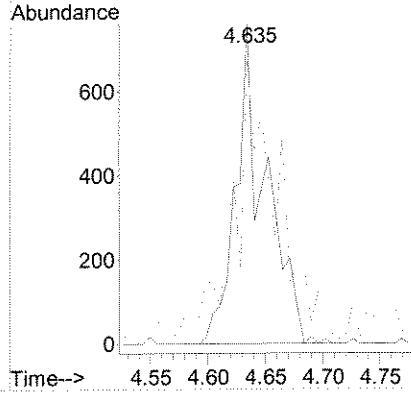
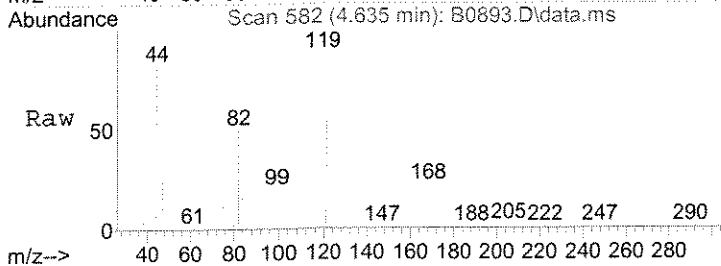
Tgt Ion	Resp	Lower	Upper
83	100		
85	63.8	51.7	77.5
47	21.5	17.1	25.7





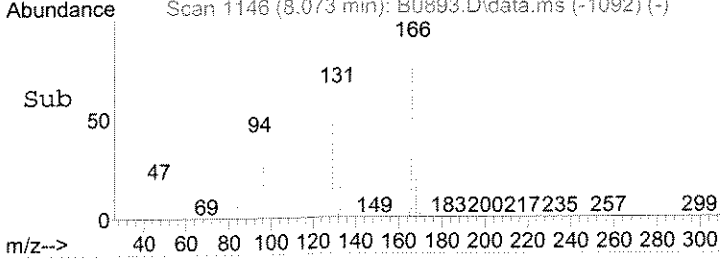
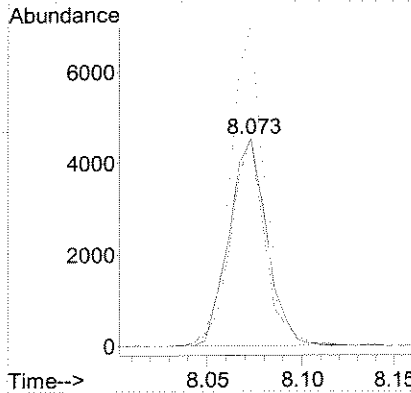
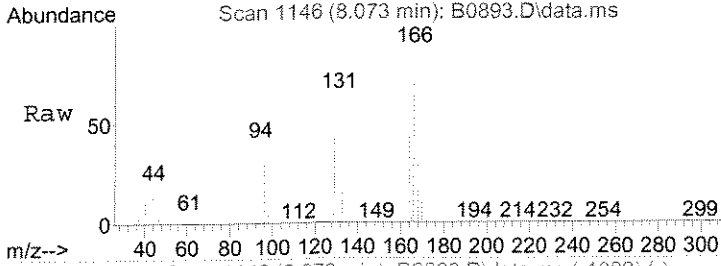
#47
 Carbontetrachloride
 Concen: 0.26 ug/L
 RT: 4.635 min Scan# 582
 Delta R.T. -0.006 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

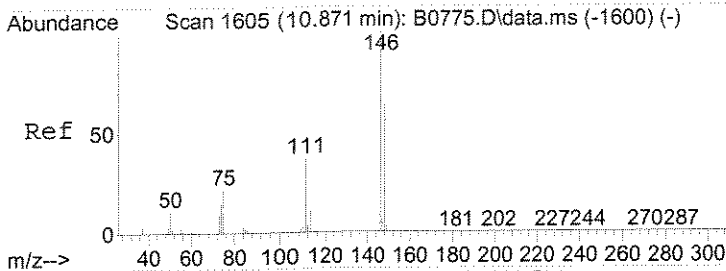
Tgt Ion	Resp	Lower	Upper
121	1376		
82	88.8	62.0	93.0



#72
 Tetrachloroethene
 Concen: 0.65 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

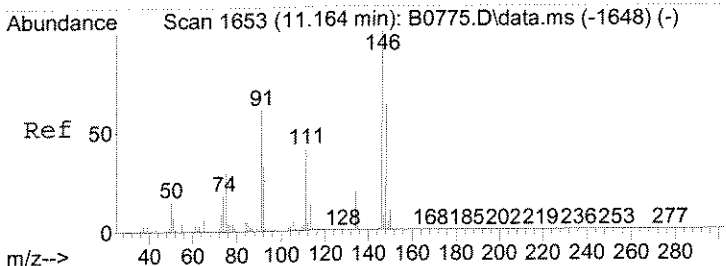
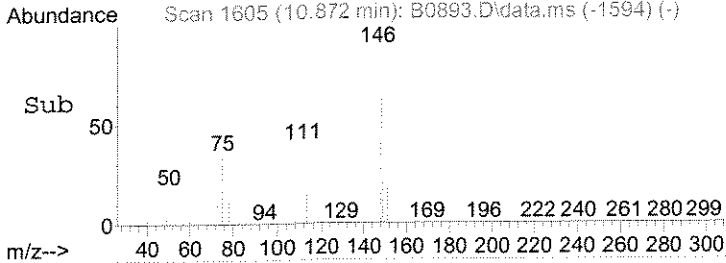
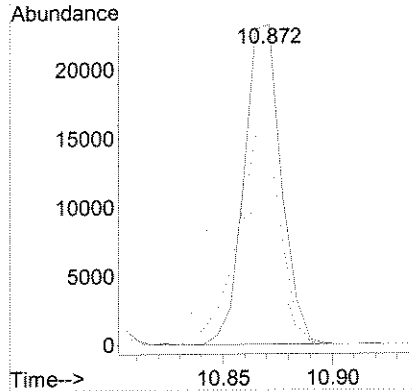
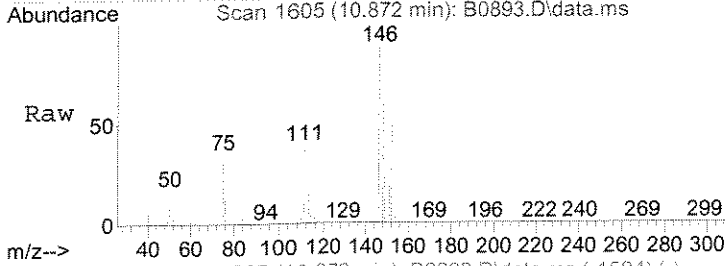
Tgt Ion	Resp	Lower	Upper
164	6295		
166	154.0	101.5	152.3#
129	88.3	73.8	110.6
131	100.1	72.9	109.3





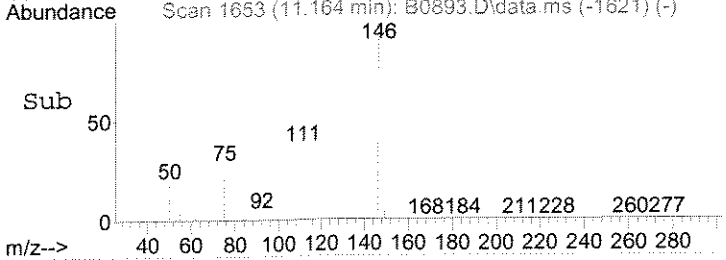
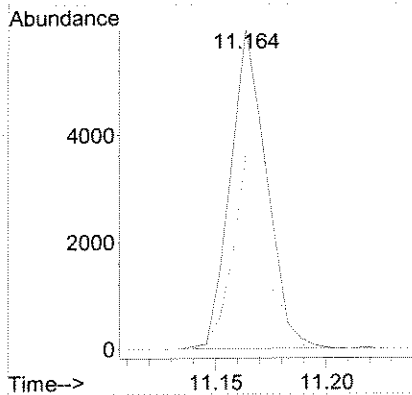
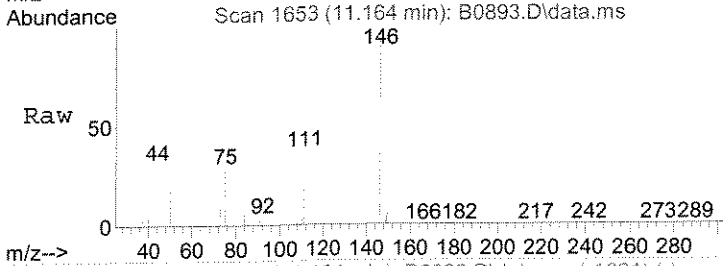
#101
 1,4-DcIbenz
 Concen: 1.01 ug/L
 RT: 10.872 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

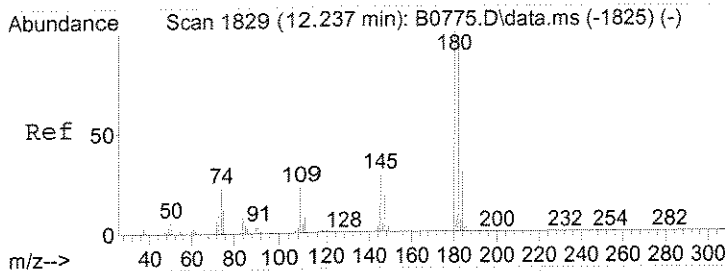
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	27515		
148	63.6		51.2	76.8
111	39.3		30.0	45.0



#104
 1,2-DcIbenz
 Concen: 0.27 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. -0.000 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

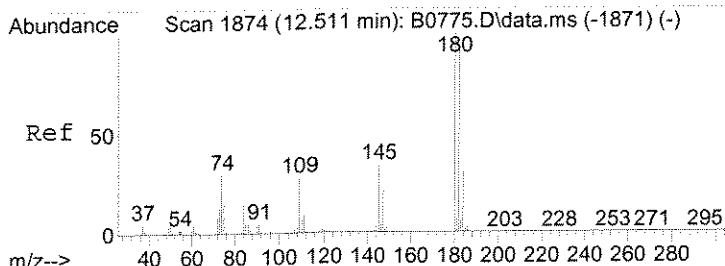
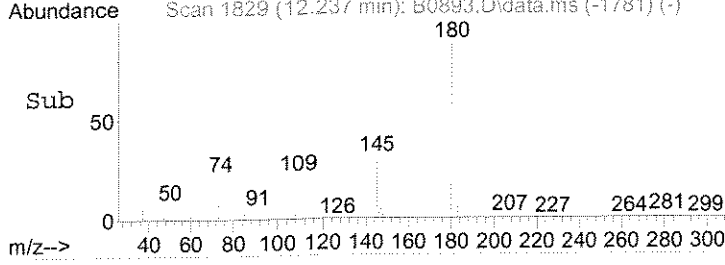
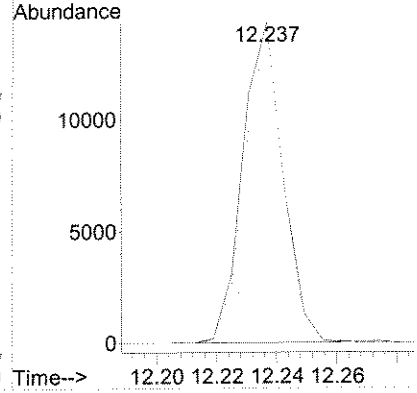
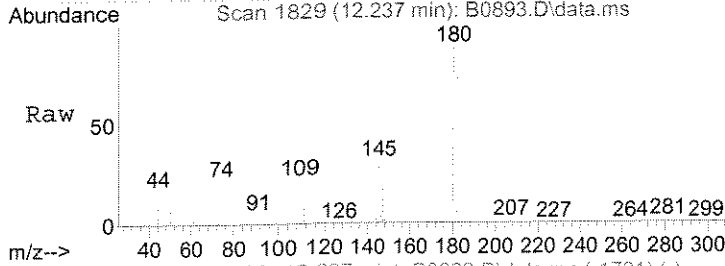
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	6745		
148	61.8		50.3	75.5
111	37.3		33.0	49.4





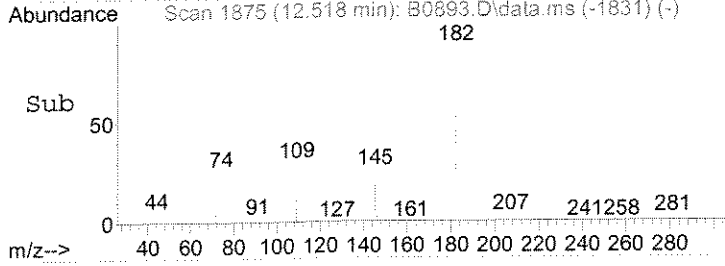
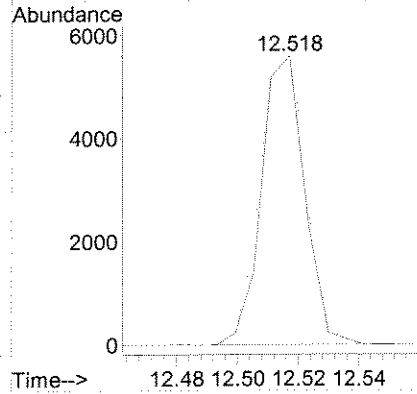
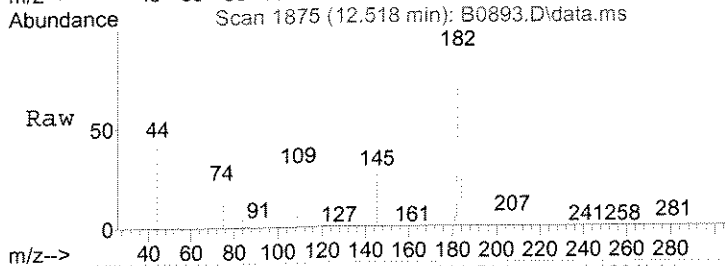
#107
 1,2,4-Tc benzene
 Concen: 0.79 ug/L
 RT: 12.237 min Scan# 1829
 Delta R.T. -0.000 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.8	77.8	116.6
145	31.4	23.2	34.8



#110
 1,2,3-Tcl benzene
 Concen: 0.35 ug/L
 RT: 12.518 min Scan# 1875
 Delta R.T. -0.000 min
 Lab File: B0893.D
 Acq: 2 Jul 2008 9:48 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	110.5	74.4	111.6
145	31.1	27.2	40.8



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-61B

Date Sampled : 06/26/08 11:00 Order #: 1112871 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	2.00		
ACETONE	20	6.4 JD	UG/L
BENZENE	1.0	2.0 U	UG/L
BROMOBENZENE	2.0	4.0 U	UG/L
BROMOCHLOROMETHANE	2.0	4.0 U	UG/L
BROMODICHLOROMETHANE	1.0	2.0 U	UG/L
BROMOFORM	1.0	2.0 U	UG/L
BROMOMETHANE	2.0	4.0 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
TERT-BUTYL ALCOHOL	100	5.2 JDB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	2.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	2.0 U	UG/L
TERT-BUTYLBENZENE	2.0	4.0 U	UG/L
SEC-BUTYLBENZENE	2.0	4.0 U	UG/L
N-BUTYLBENZENE	5.0	10 U	UG/L
CARBON TETRACHLORIDE	1.0	2.0 U	UG/L
CHLOROBENZENE	1.0	2.0 U	UG/L
CHLOROETHANE	2.0	4.0 U	UG/L
CHLOROFORM	1.0	230 D	UG/L
CHLOROMETHANE	2.0	1.2 JD	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	10 U	UG/L
2-CHLOROTOLUENE	5.0	10 U	UG/L
4-CHLOROTOLUENE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	1.0	2.0 U	UG/L
1,2-DIBROMOETHANE	1.0	2.0 U	UG/L
DIBROMOMETHANE	1.0	2.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	4.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	1.1 JD	UG/L
1,3-DICHLOROBENZENE	2.0	4.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	2.0 U	UG/L
1,1-DICHLOROETHANE	1.0	2.0 U	UG/L
1,2-DICHLOROETHANE	1.0	2.0 U	UG/L
1,1-DICHLOROETHENE	1.0	2.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	2.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	2.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	4.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	2.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	4.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	4.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	2.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	2.0 U	UG/L
ETHYLBENZENE	1.0	2.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
DI-ISOPROPYL ETHER	1.0	2.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-61B

Date Sampled : 06/26/08 11:00 Order #: 1112871 Sample Matrix: WATER
Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	2.00		
ISOPROPYLBENZENE	2.0	4.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	4.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	2.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.42 JD	UG/L
NAPHTHALENE	2.0	4.0 U	UG/L
4-METHYL-2-PENTANONE	10	20 U	UG/L
N-PROPYLBENZENE	2.0	4.0 U	UG/L
STYRENE	1.0	2.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	2.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	2.0 U	UG/L
TETRACHLOROETHENE	1.0	0.60 JD	UG/L
TOLUENE	1.0	2.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	0.94 JD	UG/L
1,2,3-TRICHLOROBENZENE	2.0	0.56 JD	UG/L
1,1,1-TRICHLOROETHANE	1.0	2.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	2.0 U	UG/L
TRICHLOROETHENE	1.0	2.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	2.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	4.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	4.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	4.0 U	UG/L
VINYL CHLORIDE	1.0	2.0 U	UG/L
M+P-XYLENE	2.0	4.0 U	UG/L
O-XYLENE	1.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Sample : 1112871 2.0
 Data File : J:\ACQU\DATA\MSVOA10\DATA\070308\B0906.D Vial: 5
 Acq On : 3 Jul 2008 2:57 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

DL

Quant Time: Jul 03 15:11:28 2008
 Quant Method : J:\ACQU\DATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

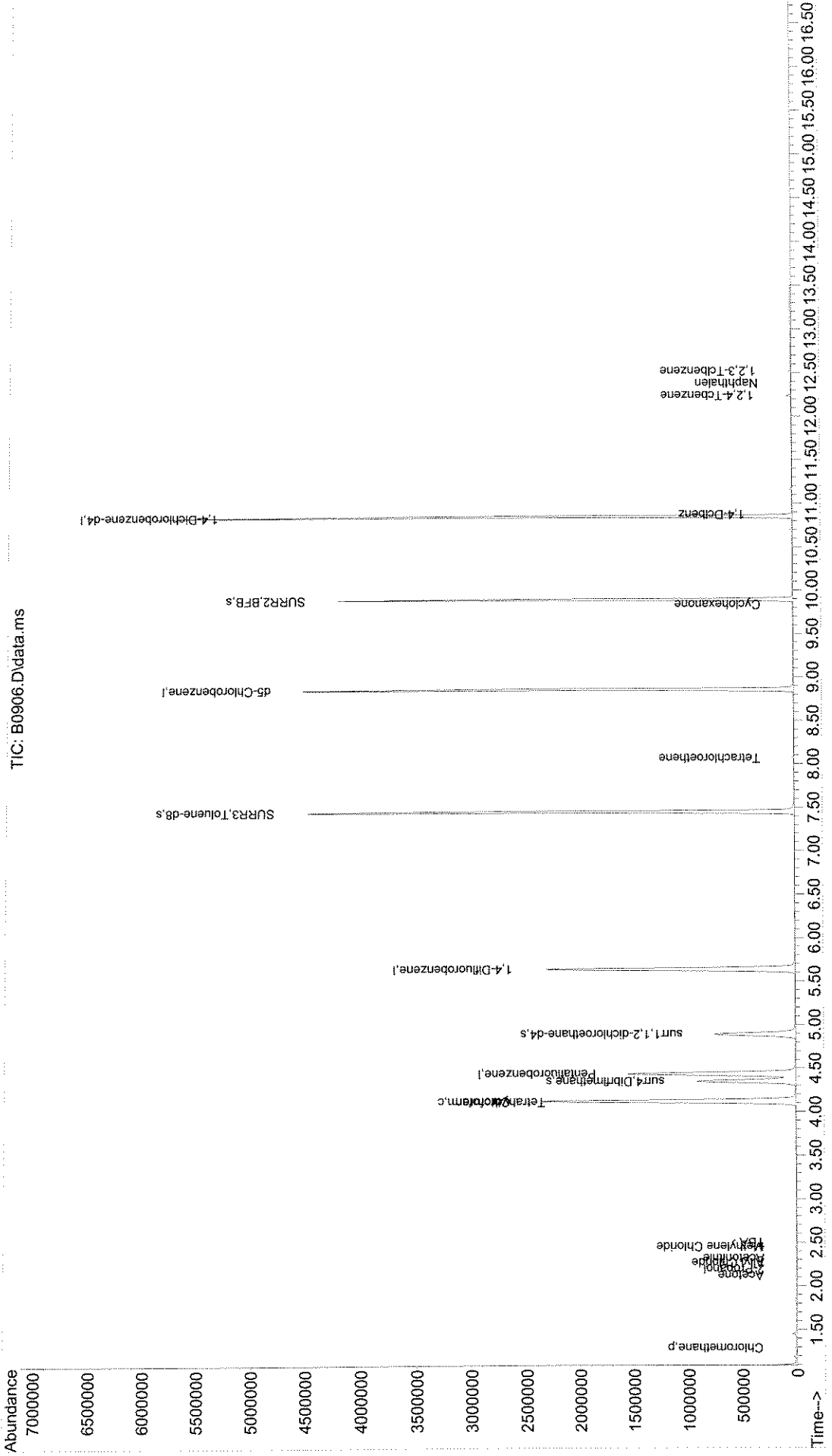
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1391943	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2254173	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2076576	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1105797	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	722360	48.70	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	97.40%		
49) surr1,1,2-dichloroetha...	4.891	65	747620	52.76	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.52%		
65) SURR3,Toluene-d8	7.451	98	2669679	54.41	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.82%		
70) SURR2,BFB	9.896	95	1075169	53.21	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.42%		
Target Compounds							
4) Chloromethane	1.294	50	5949	0.58	ug/L	97	>LT JD
16) Acetone	2.123	43	5488	3.20	ug/L	92	
17) 2-Propanol	2.196	45	2863	7.84	ug/L #	91	NT
20) Acetonitrile	2.318	40	658	2.74	ug/L #	1	
21) Allyl Chloride	2.269	76	2779	0.53	ug/L #	1	FW
23) Methylene Chloride	2.452	84	2423	0.21	ug/L #	83	>LT JD
24) TBA	2.501	59	1521	2.62	ug/L	79	JDB 7/1/08
40) Tetrahydrofuran	4.111	42	5740	3.47	ug/L #	1	
41) Chloroform	4.117	83	2343364	116.03	ug/L	99	D
72) Tetrachloroethene	8.067	164	3107	0.30	ug/L #	86	>LT JD
85) Cyclohexanone	9.835	55	265	0.28	ug/L #	66	
101) 1,4-Dclbenz	10.871	146	15876	0.55	ug/L	96	>LT JD
107) 1,2,4-Tcbenzene	12.237	180	8350	0.47	ug/L	95	
109) Naphthalen	12.377	128	2729	0.60	ug/L #	90	LLR
110) 1,2,3-Tclbenzene	12.517	180	4602	0.28	ug/L	92	>LT JD

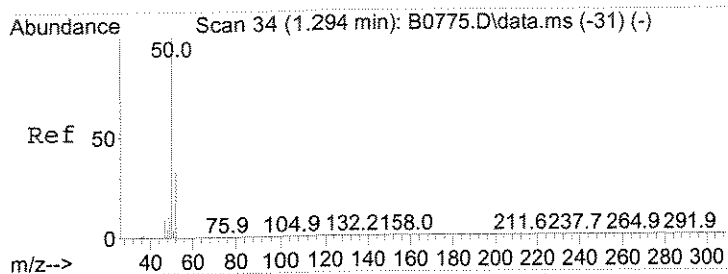
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FW
7/1/08

Sample : 1112871 2.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0906.D Vial: 5
 Acq On : 3 Jul 2008 2:57 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

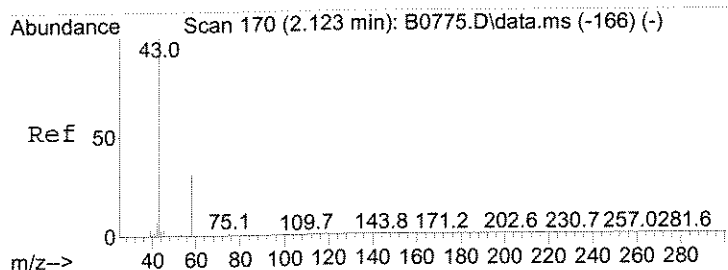
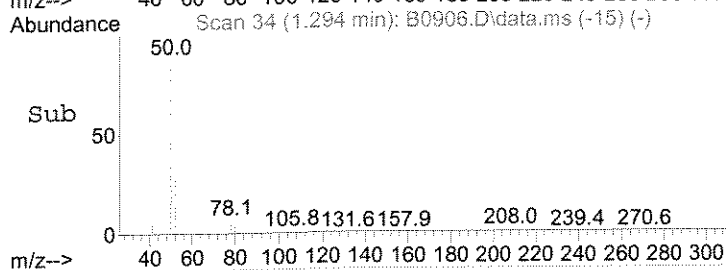
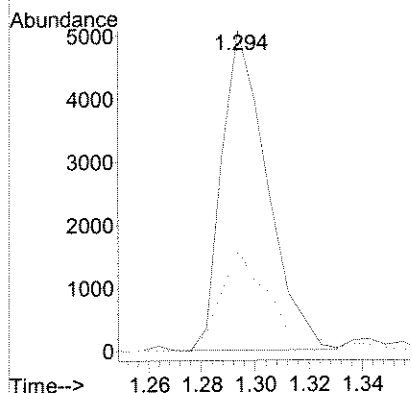
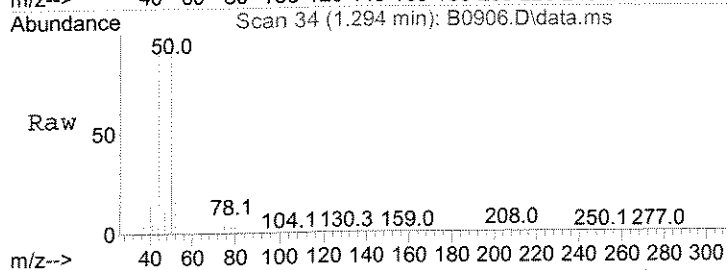
Quant Time: Jul 03 15:11:28 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





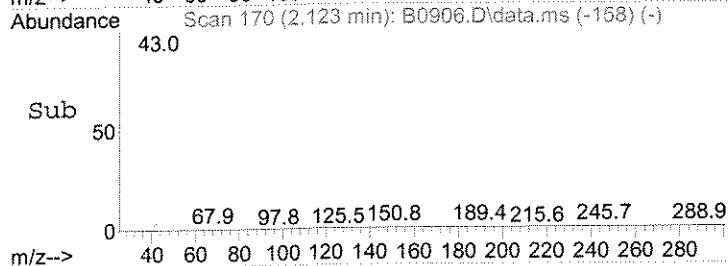
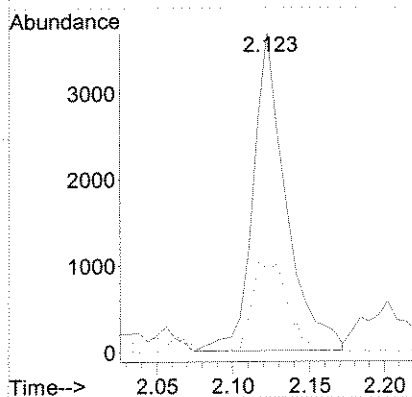
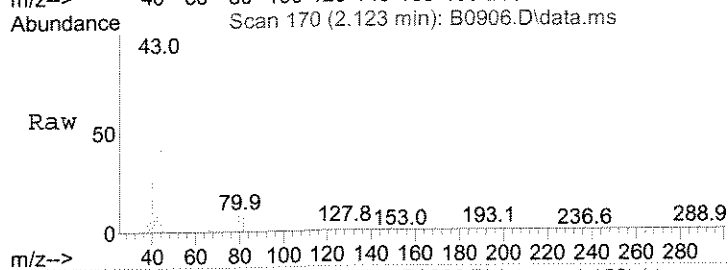
#4
 Chloromethane
 Concen: 0.58 ug/L
 RT: 1.294 min Scan# 34
 Delta R.T. -0.000 min
 Lab File: B0906.D
 Acq: 3 Jul 2008 2:57 pm

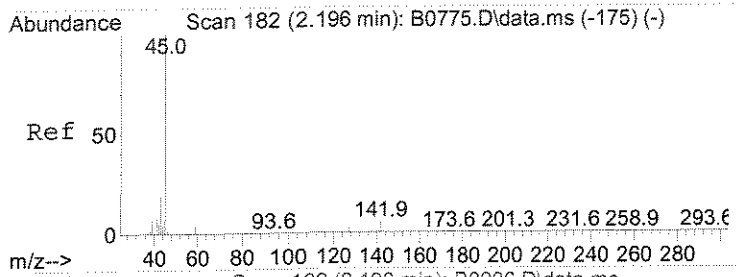
Tgt Ion	Resp	Lower	Upper
50	100		
52	31.4	3.1	63.1



#16
 Acetone
 Concen: 3.20 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0906.D
 Acq: 3 Jul 2008 2:57 pm

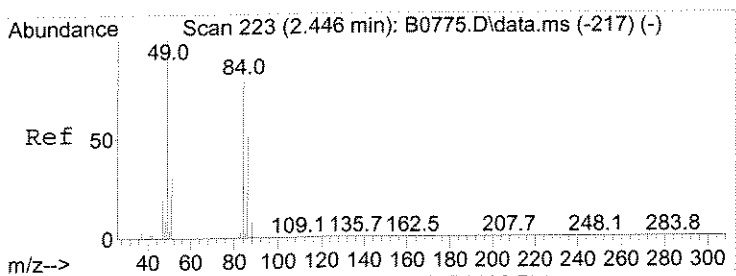
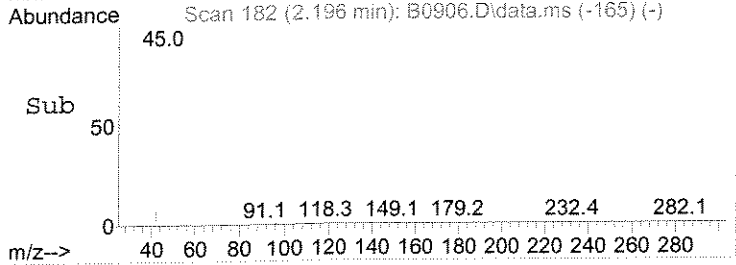
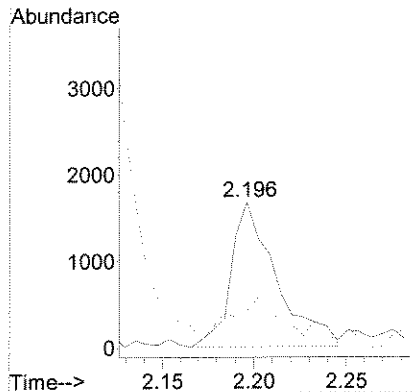
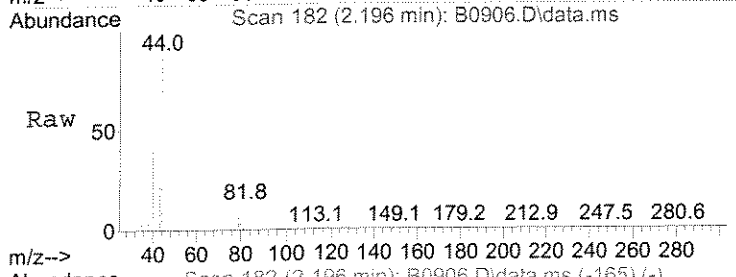
Tgt Ion	Resp	Lower	Upper
43	100		
58	25.8	0.9	60.9
42	9.0	0.0	37.2





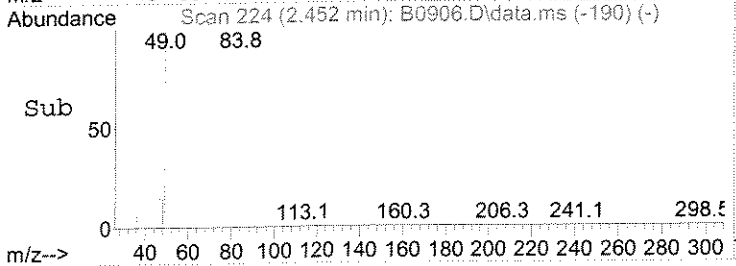
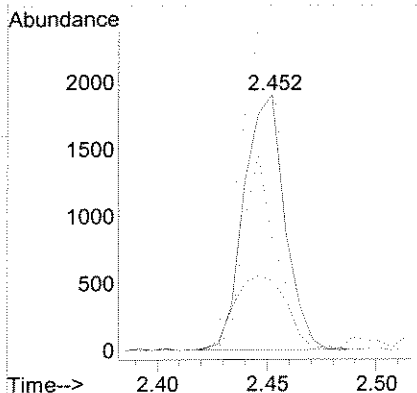
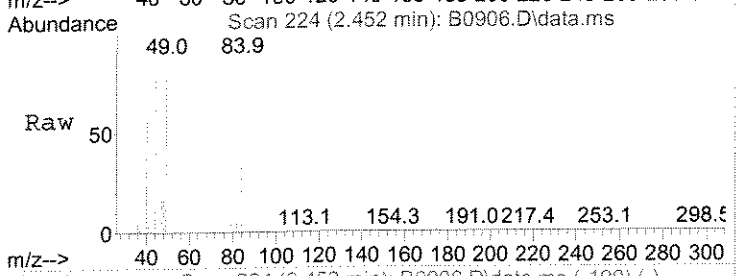
#17
 2-Propanol
 Concen: 7.84 ug/L
 RT: 2.196 min Scan# 182
 Delta R.T. -0.006 min
 Lab File: B0906.D
 Acq: 3 Jul 2008 2:57 pm

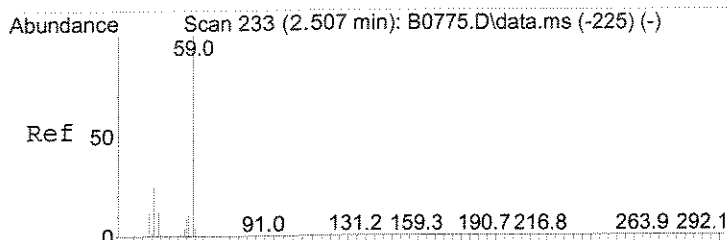
Tgt Ion	Resp	Lower	Upper
45	100		
43	25.6	17.0	25.4#



#23
 Methylene Chloride
 Concen: 0.21 ug/L
 RT: 2.452 min Scan# 224
 Delta R.T. 0.006 min
 Lab File: B0906.D
 Acq: 3 Jul 2008 2:57 pm

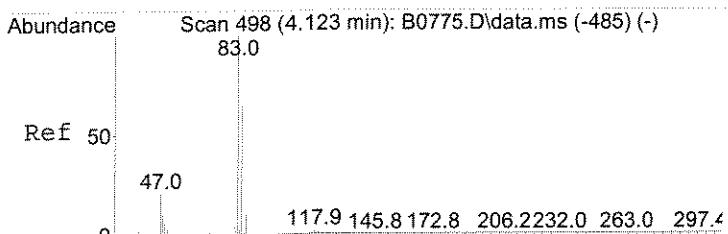
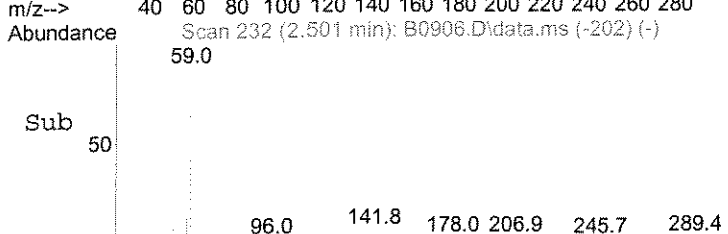
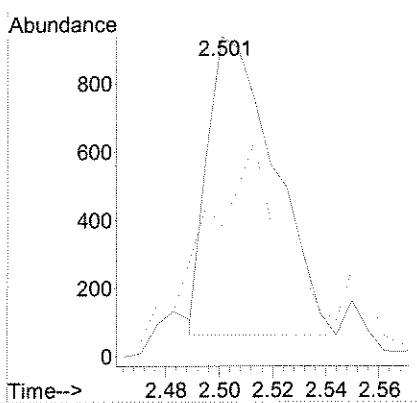
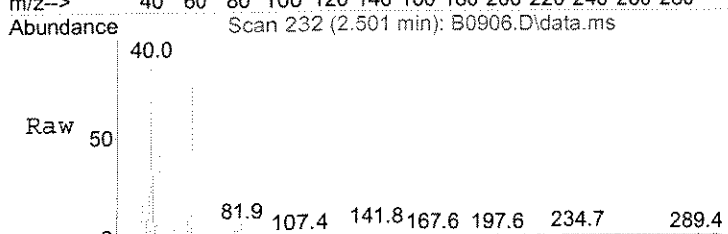
Tgt Ion	Resp	Lower	Upper
84	100		
86	43.0	50.5	75.7#
49	111.3	99.5	149.3
51	27.0	31.1	46.7#





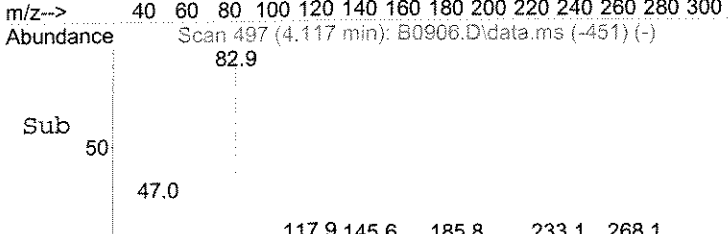
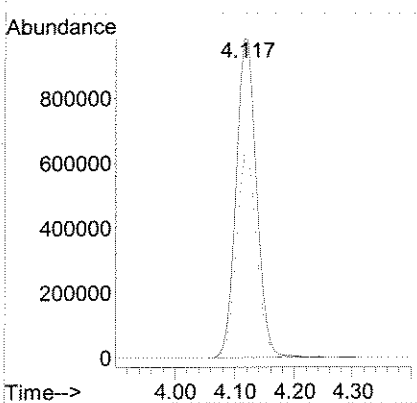
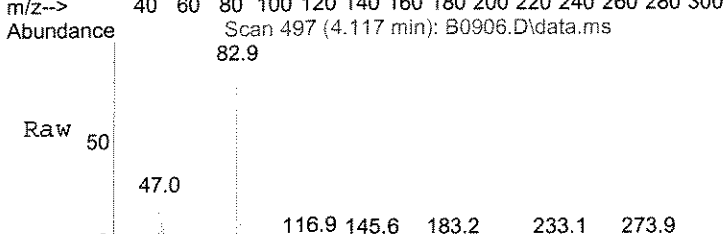
#24
 TBA
 Concen: 2.62 ug/L
 RT: 2.501 min Scan# 232
 Delta R.T. -0.006 min
 Lab File: B0906.D
 Acq: 3 Jul 2008 2:57 pm

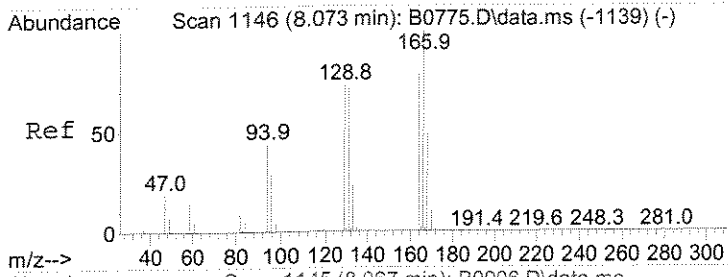
Tgt Ion	Resp	Lower	Upper
59	100		
41	40.5	14.5	43.6



#41
 Chloroform
 Concen: 116.03 ug/L
 RT: 4.117 min Scan# 497
 Delta R.T. -0.006 min
 Lab File: B0906.D
 Acq: 3 Jul 2008 2:57 pm

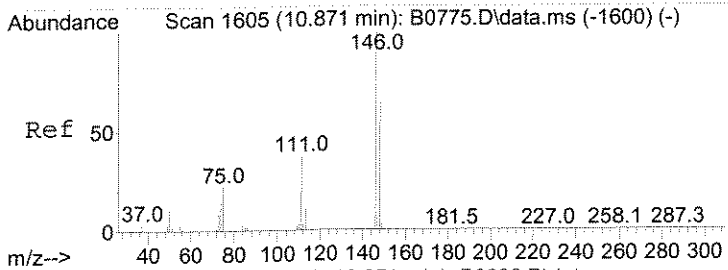
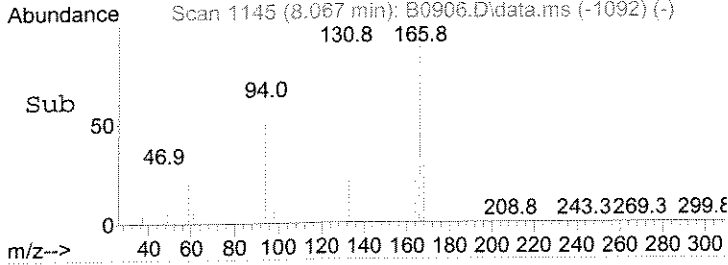
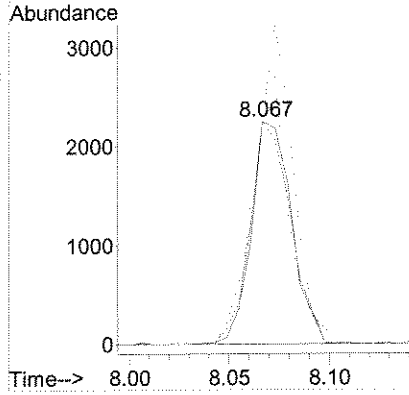
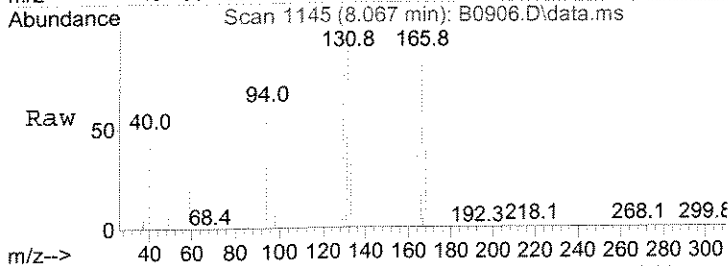
Tgt Ion	Resp	Lower	Upper
83	100		
85	63.8	51.7	77.5
47	22.4	17.1	25.7





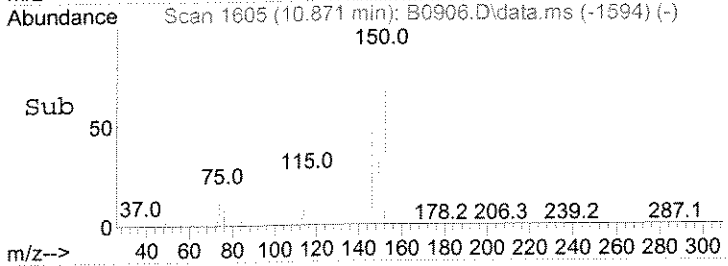
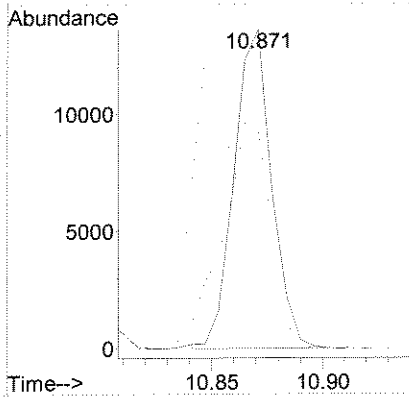
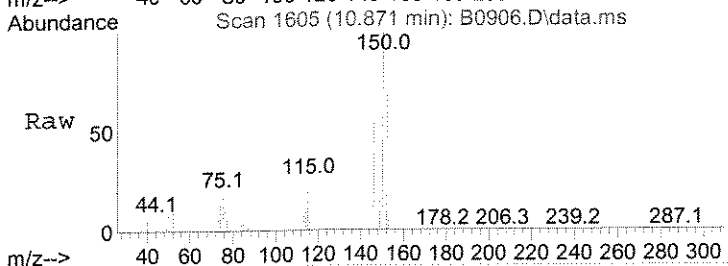
#72
 Tetrachloroethene
 Concen: 0.30 ug/L
 RT: 8.067 min Scan# 1145
 Delta R.T. -0.006 min
 Lab File: B0906.D
 Acq: 3 Jul 2008 2:57 pm

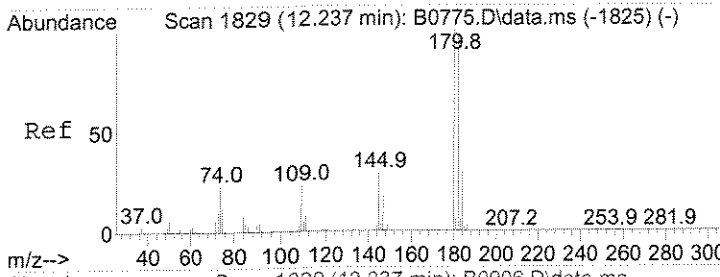
Tgt Ion	Resp	Lower	Upper
164	100		
166	100.4	101.5	152.3#
129	99.2	73.8	110.6
131	100.3	72.9	109.3



#101
 1,4-Dclbenz
 Concen: 0.55 ug/L
 RT: 10.871 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0906.D
 Acq: 3 Jul 2008 2:57 pm

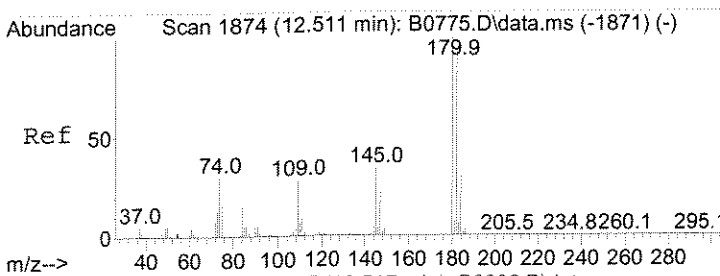
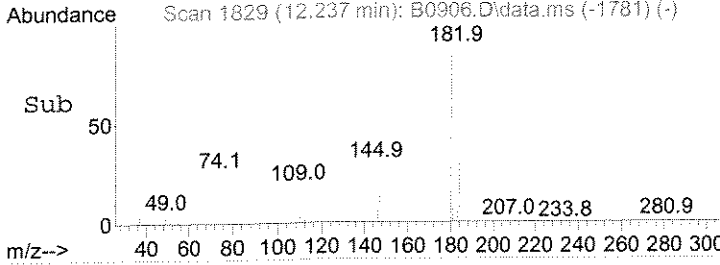
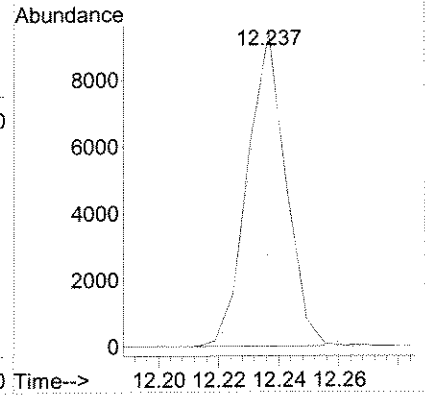
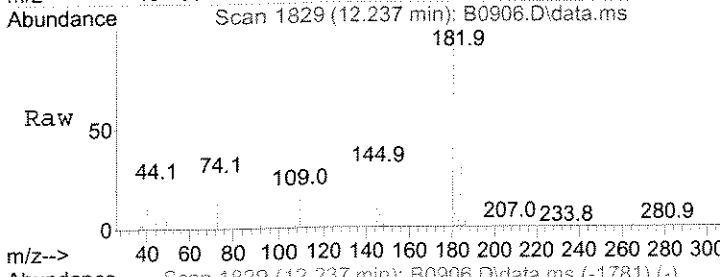
Tgt Ion	Resp	Lower	Upper
146	100		
148	67.7	51.2	76.8
111	38.5	30.0	45.0





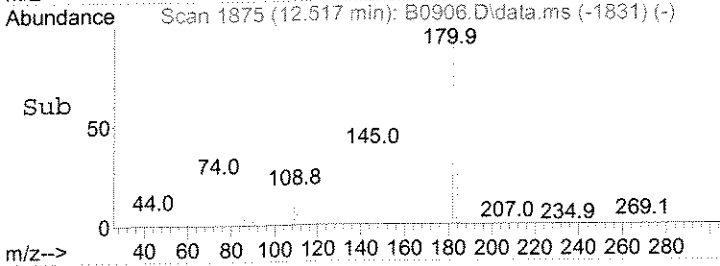
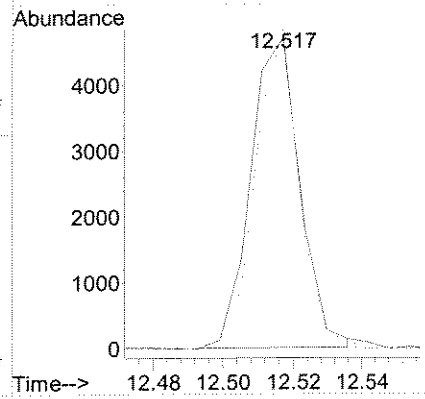
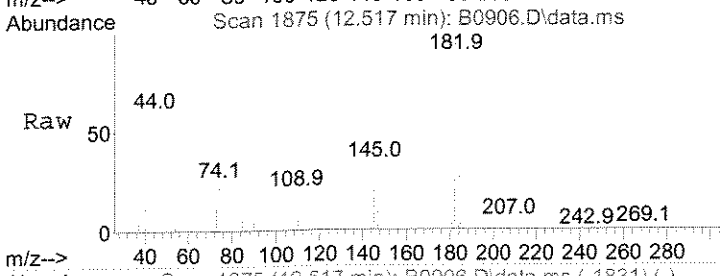
#107
 1,2,4-Tc benzene
 Concen: 0.47 ug/L
 RT: 12.237 min Scan# 1829
 Delta R.T. -0.000 min
 Lab File: B0906.D
 Acq: 3 Jul 2008 2:57 pm

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	8350		
182	102.5	77.8	116.6	
145	30.4	23.2	34.8	



#110
 1,2,3-Tcl benzene
 Concen: 0.28 ug/L
 RT: 12.517 min Scan# 1875
 Delta R.T. -0.000 min
 Lab File: B0906.D
 Acq: 3 Jul 2008 2:57 pm

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	4602		
182	102.9	74.4	111.6	
145	35.4	27.2	40.8	



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-88BB

Date Sampled : 06/26/08 08:00 Order #: 1112872 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.5 JB	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	0.43 J	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	3.4 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	2.6	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	500 E	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	0.83 J	UG/L
1,4-DICHLOROBENZENE	2.0	1.1 J	UG/L
1,3-DICHLOROBENZENE	2.0	0.37 J	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	0.44 J	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-88BB

Date Sampled : 06/26/08 08:00 Order #: 1112872 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.37 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	0.82 J	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	0.37 J	UG/L
1,2,3-TRICHLOROBENZENE	2.0	0.34 J	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	0.26 J	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	100	%

Sample : 1112872 1.0
 Data File : J:\ACQUADATA\MSVOA10\DATA\070208\B0894.D Vial: 15
 Acq On : 2 Jul 2008 10:18 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 02 22:33:03 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

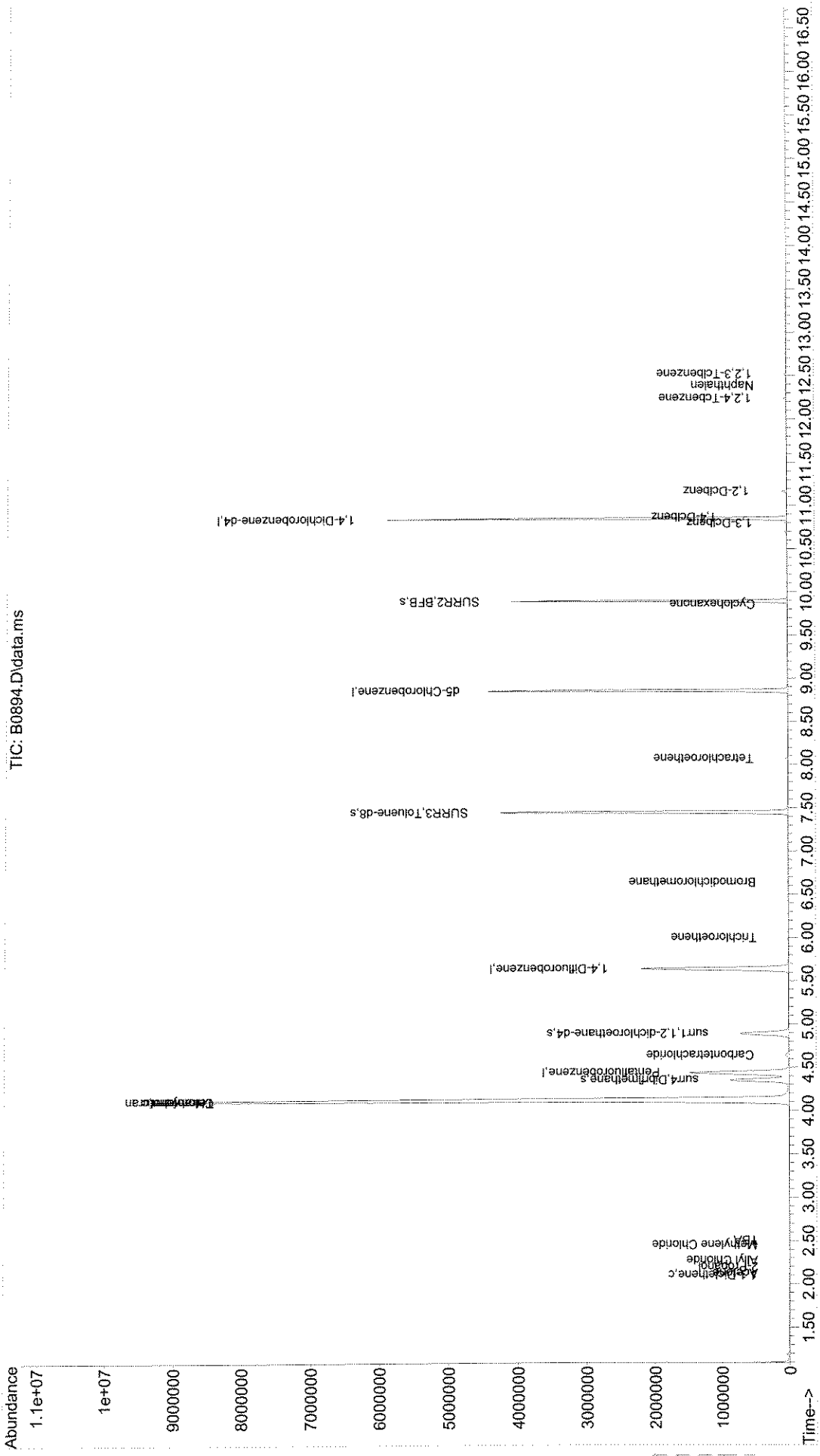
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.440	168	1304435	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2106211	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1951119	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1051231	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.354	113	690205	50.17	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	100.34%		
49) surr1,1,2-dichloroetha...	4.891	65	729000	55.06	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	110.12%		
65) SURR3,Toluene-d8	7.451	98	2516908	54.90	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.80%		
70) SURR2,BFB	9.896	95	1013043	53.65	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.30%		
Target Compounds							
							Qvalue
14) 1,1-Dicethene	2.105	96	3898	0.44	ug/L		93 J
16) Acetone	2.123	43	2474	1.54	ug/L		98 JB
17) 2-Propanol	2.196	45	284	0.83	ug/L #	1	
21) Allyl Chloride	2.276	76	1893	0.39	ug/L #	1	
23) Methylene Chloride	2.452	84	4031	0.37	ug/L #		85 J
24) TBA	2.507	59	1868	3.44	ug/L #		60 JB
40) Tetrahydrofuran	4.117	42	15880	10.25	ug/L #	1	
41) Chloroform	4.117	83	9557950	505.02	ug/L		99 E
47) Carbontetrachloride	4.641	121	13443	2.58	ug/L #		81
54) Trichloroethene	6.001	130	3032	0.26	ug/L #		73
60) Bromodichloromethane	6.641	83	6467	0.43	ug/L #		95 J
72) Tetrachloroethene	8.073	164	8020	0.82	ug/L		87 J
85) Cyclohexanone	9.860	55	1414	1.60	ug/L #	27	
100) 1,3-Dclbenz	10.798	146	9770	0.37	ug/L		94
101) 1,4-Dclbenz	10.865	146	29584	1.08	ug/L		93 J
104) 1,2-Dclbenz	11.164	146	20698	0.83	ug/L		94 J
107) 1,2,4-Tcbenzene	12.237	180	6259	0.37	ug/L #		82
109) Naphthalen	12.383	128	537	0.55	ug/L #	84	LR
110) 1,2,3-Tclbenzene	12.518	180	5259	0.34	ug/L #		93 J

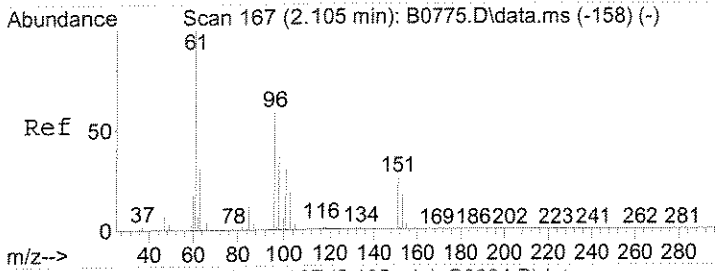
(#) = qualifier out of range (m) = manual integration (+) = signals summed

RPT 1/5
 FW 7/8/08

Sample : 1112872 1.0 Vial: 15
 Data File : J:\ACQDATA\MSVOA10\DATA\070208\B0894.D
 Acq On : 2 Jul 2008 10:18 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

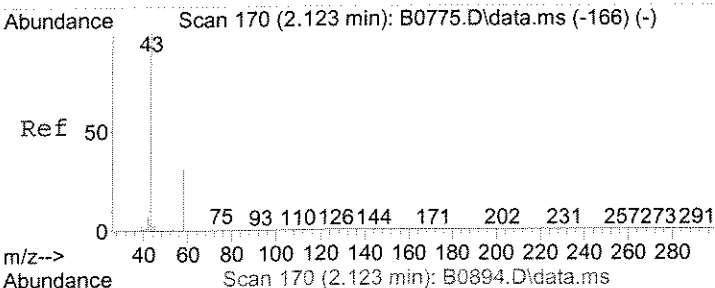
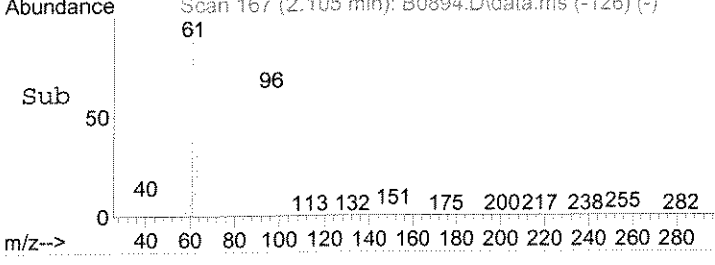
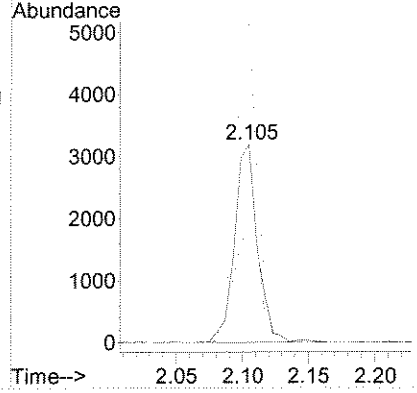
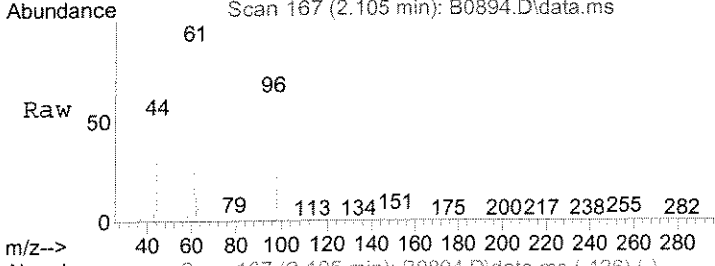
Quant Time: Jul 02 22:33:03 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





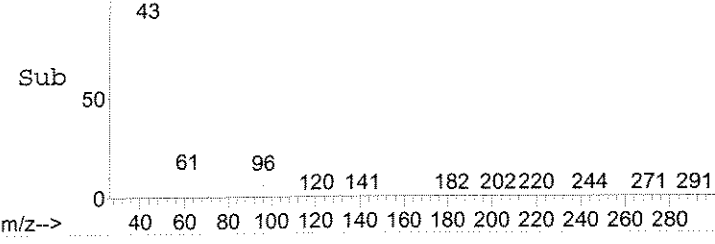
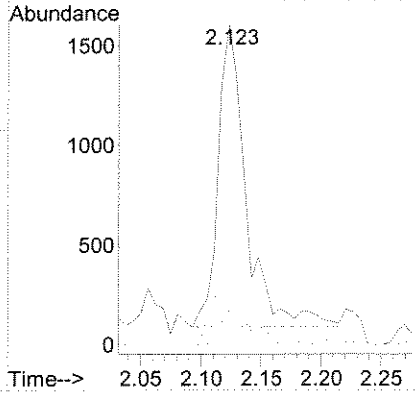
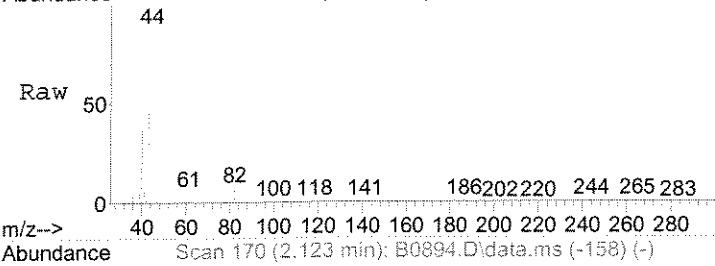
#14
 1,1-Dicloroethene
 Concen: 0.44 ug/L
 RT: 2.105 min Scan# 167
 Delta R.T. -0.000 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

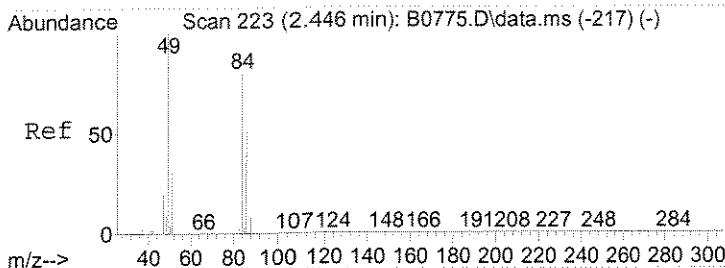
Tgt Ion	Resp	Lower	Upper
96	3898		
96	100		
98	56.1	33.7	93.7
61	161.7	140.7	200.7



#16
 Acetone
 Concen: 1.54 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

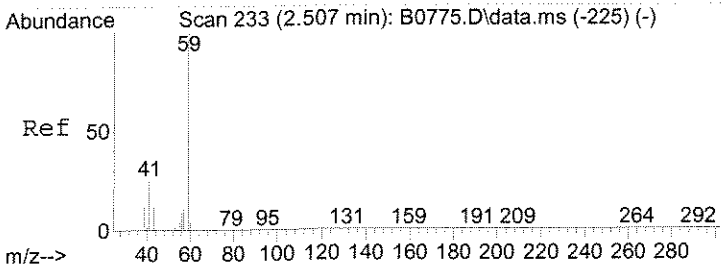
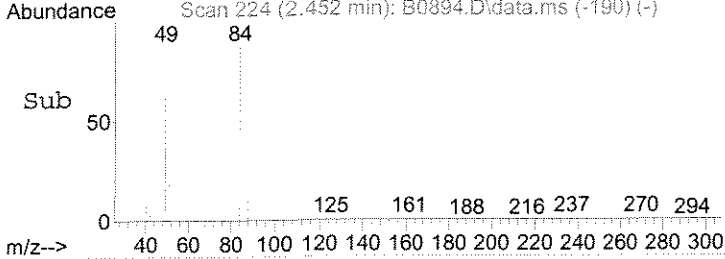
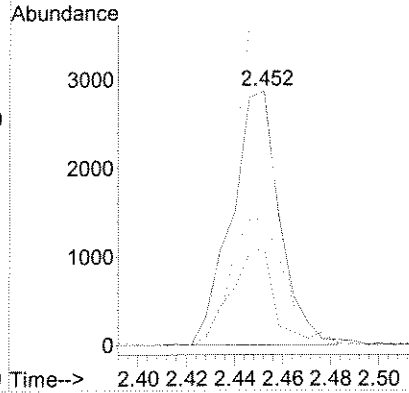
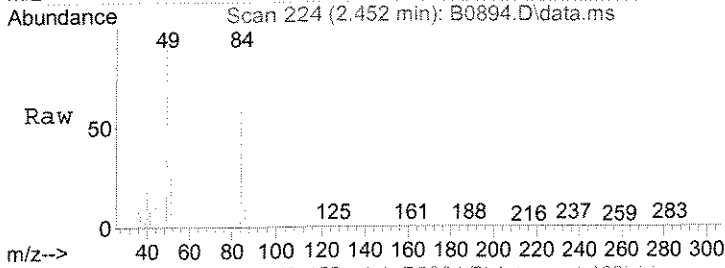
Tgt Ion	Resp	Lower	Upper
43	2474		
43	100		
58	30.9	0.9	60.9
42	10.6	0.0	37.2





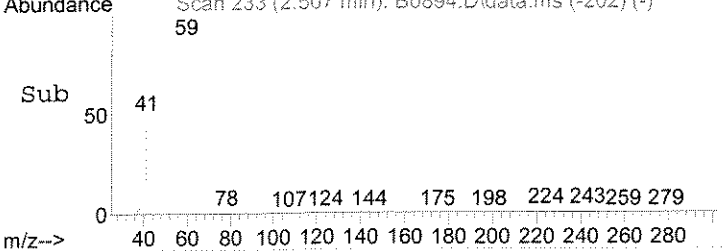
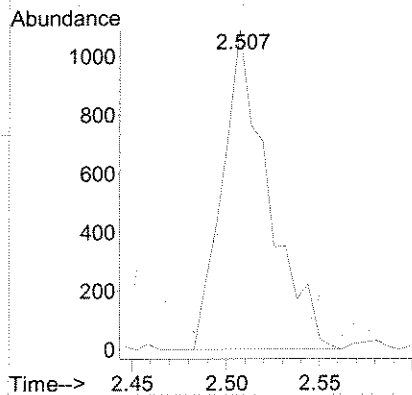
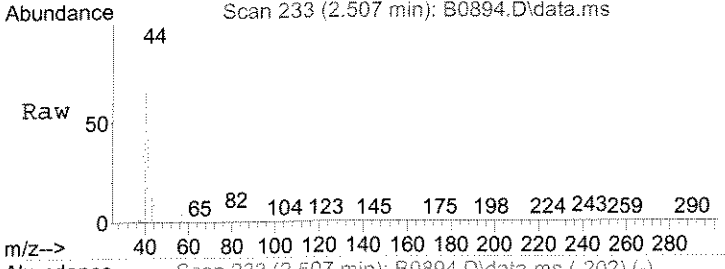
#23
 Methylene Chloride
 Concen: 0.37 ug/L
 RT: 2.452 min Scan# 224
 Delta R.T. 0.006 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

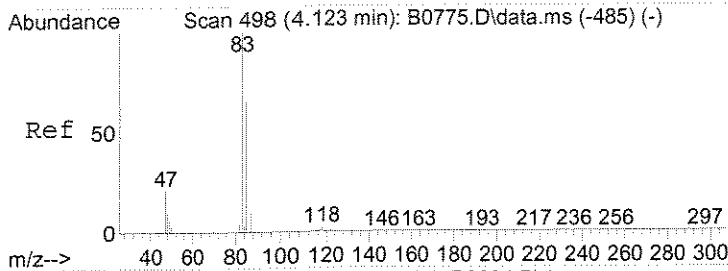
Tgt Ion	Resp	Lower	Upper
84	4031		
84	100		
86	49.7	50.5	75.7#
49	103.3	99.5	149.3
51	37.8	31.1	46.7



#24
 TBA
 Concen: 3.44 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

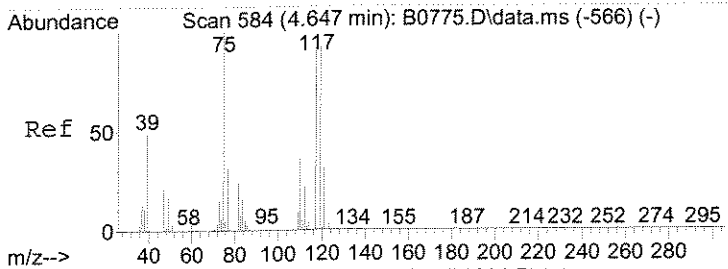
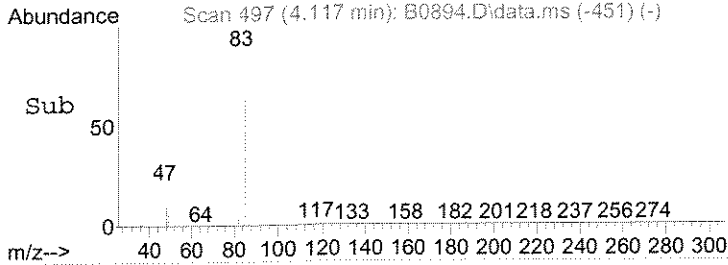
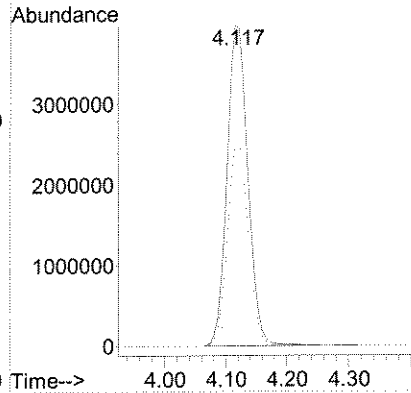
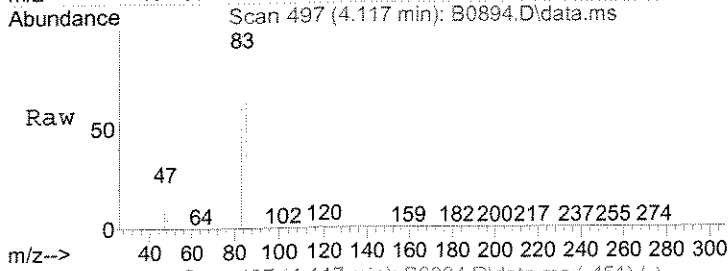
Tgt Ion	Resp	Lower	Upper
59	1868		
59	100		
41	50.6	14.5	43.6#





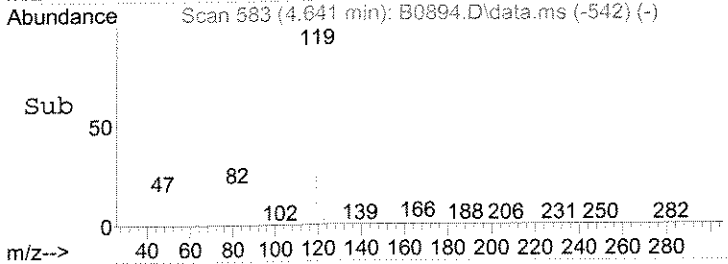
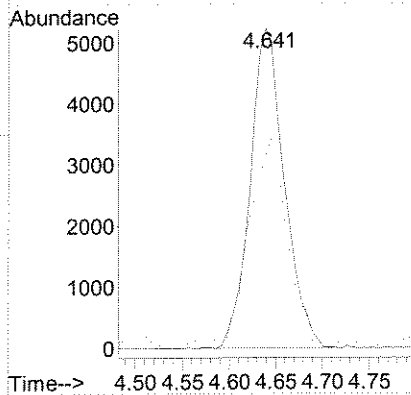
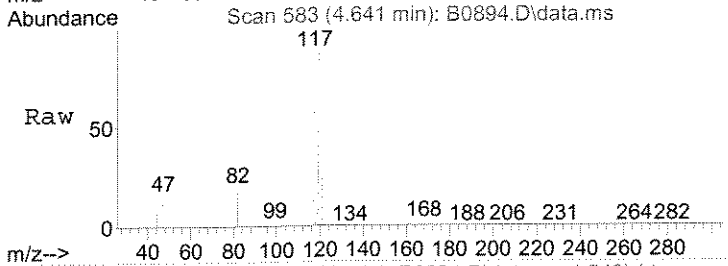
#41
 Chloroform
 Concen: 505.02 ug/L
 RT: 4.117 min Scan# 497
 Delta R.T. -0.006 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

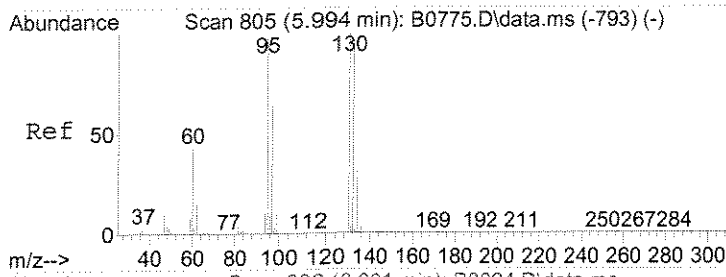
Tgt Ion	Resp	Lower	Upper
83	100		
85	63.6	51.7	77.5
47	21.2	17.1	25.7



#47
 Carbontetrachloride
 Concen: 2.58 ug/L
 RT: 4.641 min Scan# 583
 Delta R.T. -0.000 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

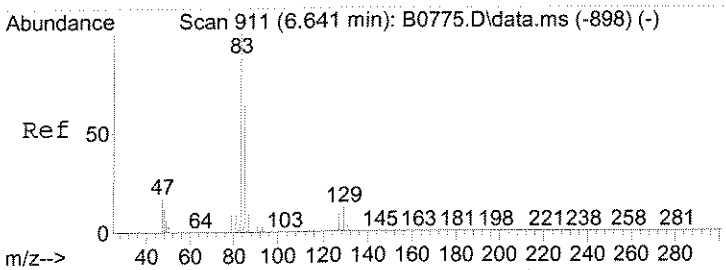
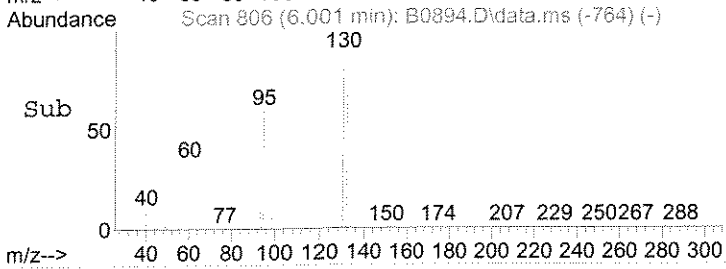
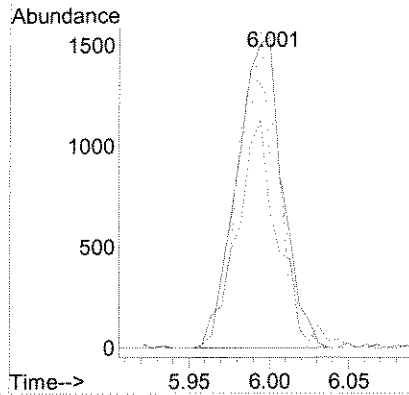
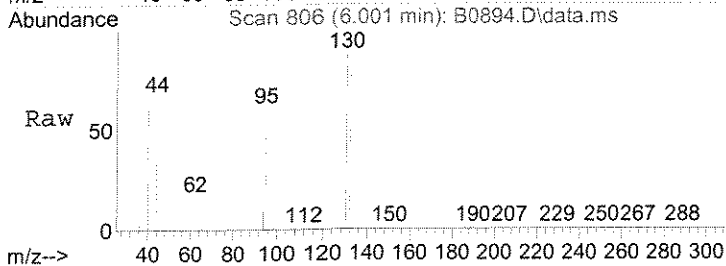
Tgt Ion	Resp	Lower	Upper
121	100		
82	61.1	62.0	93.0#





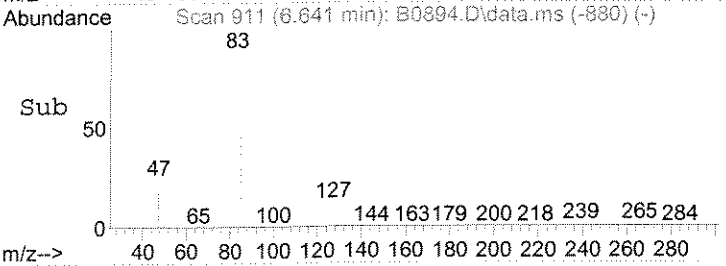
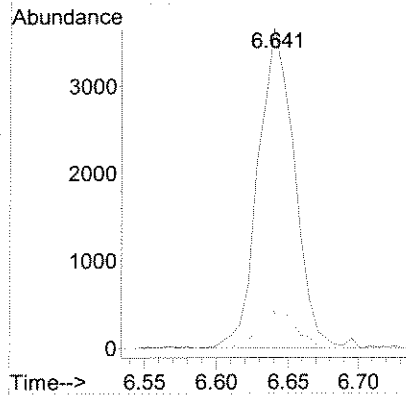
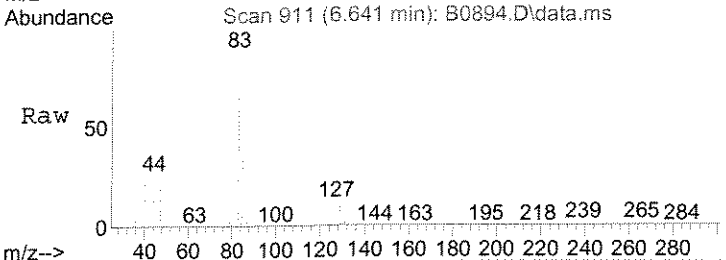
#54
 Trichloroethene
 Concen: 0.26 ug/L
 RT: 6.001 min Scan# 806
 Delta R.T. 0.006 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

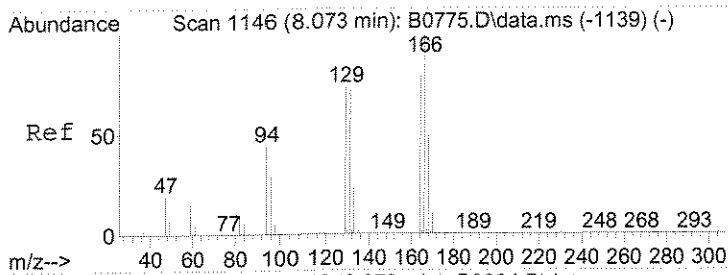
Tgt Ion	Resp	Lower	Upper
130	3032		
132	79.5	77.0	115.4
95	61.1	78.6	118.0#
97	43.7	50.9	76.3#



#60
 Bromodichloromethane
 Concen: 0.43 ug/L
 RT: 6.641 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

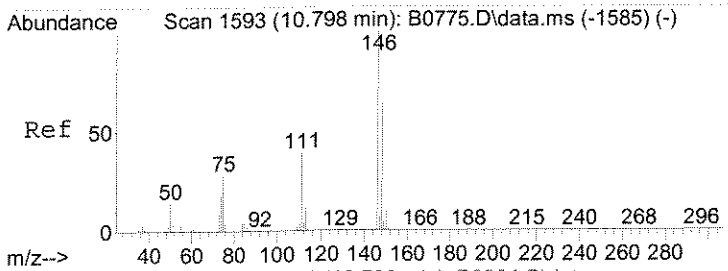
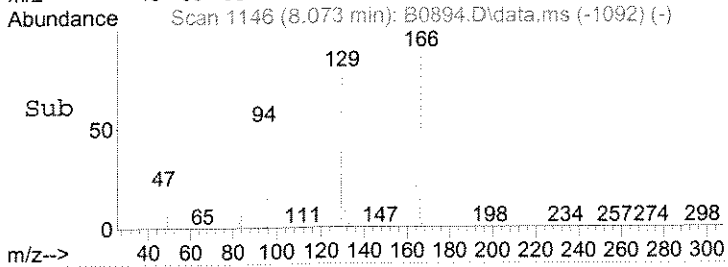
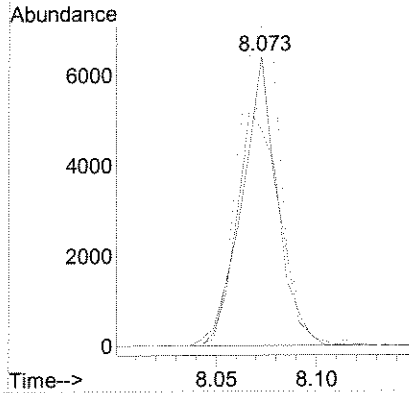
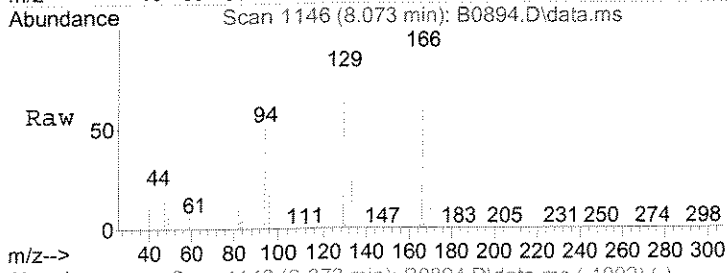
Tgt Ion	Resp	Lower	Upper
83	6467		
129	10.8	9.5	14.3
127	12.2	7.2	10.8#





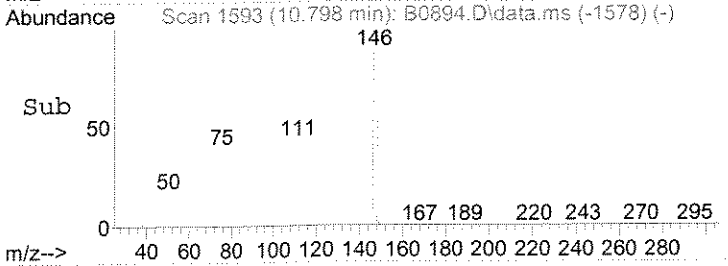
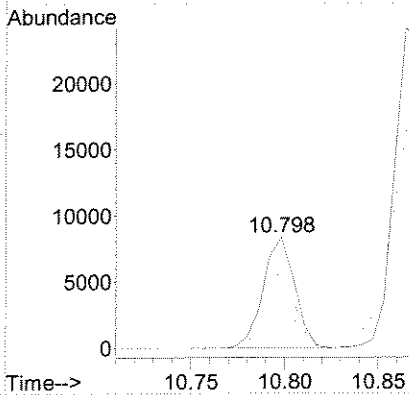
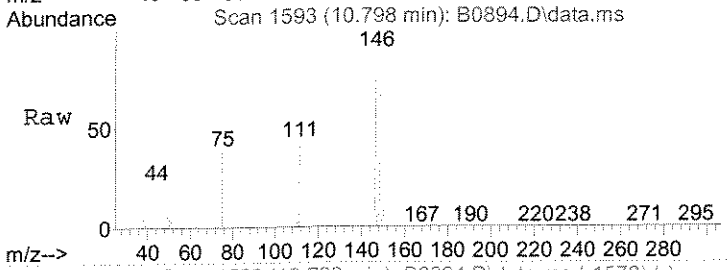
#72
 Tetrachloroethene
 Concen: 0.82 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

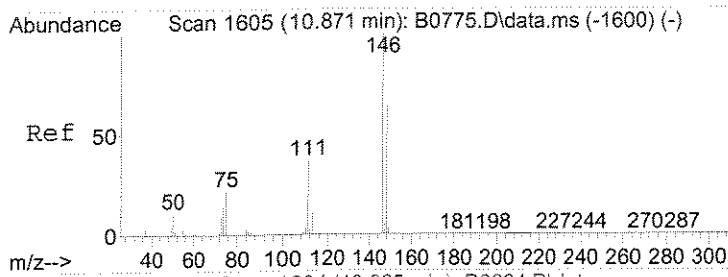
Tgt Ion	Resp	Lower	Upper
164	100		
166	110.5	101.5	152.3
129	86.3	73.8	110.6
131	74.4	72.9	109.3



#100
 1,3-Dichlorobenzene
 Concen: 0.37 ug/L
 RT: 10.798 min Scan# 1593
 Delta R.T. -0.000 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

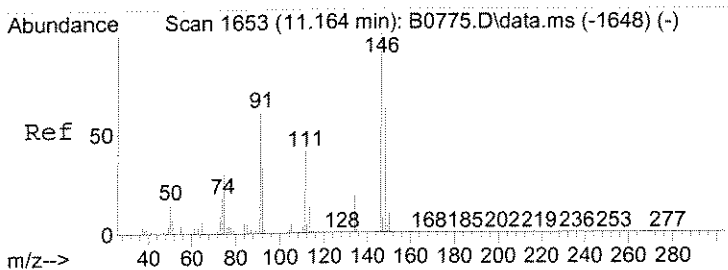
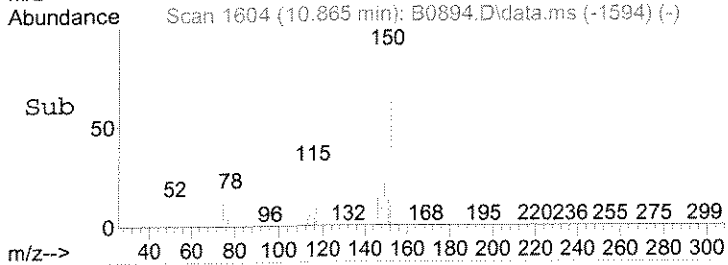
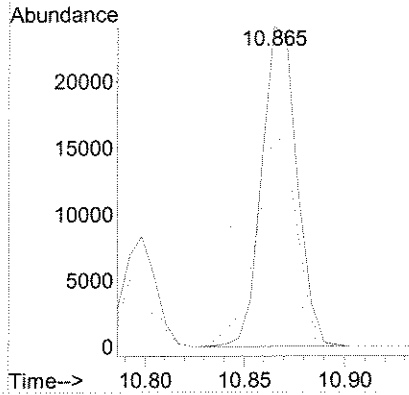
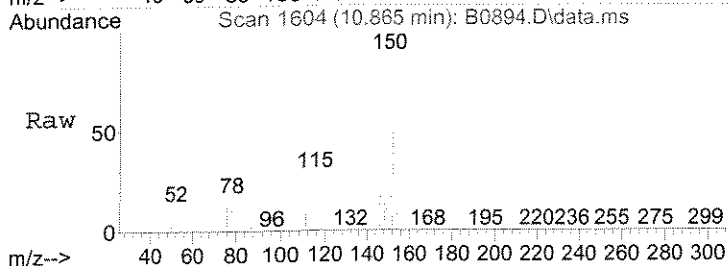
Tgt Ion	Resp	Lower	Upper
146	100		
148	67.9	51.2	76.8
111	43.5	31.4	47.0





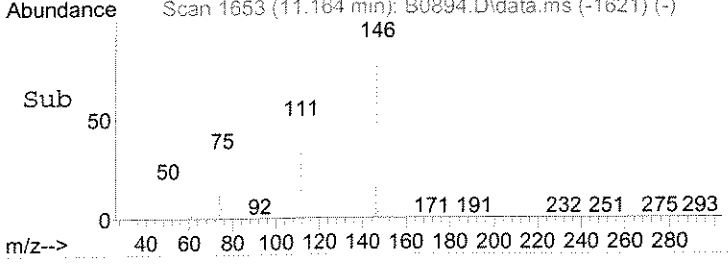
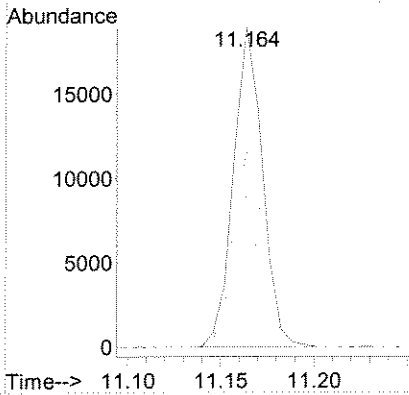
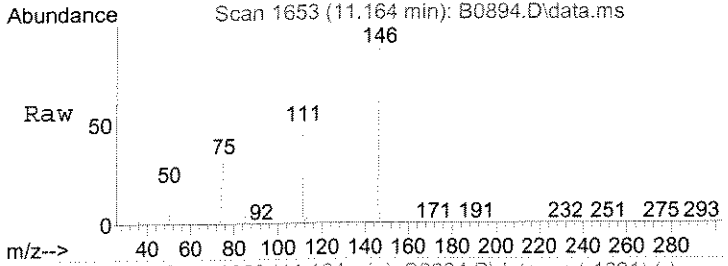
#101
 1,4-Dclbenz
 Concen: 1.08 ug/L
 RT: 10.865 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

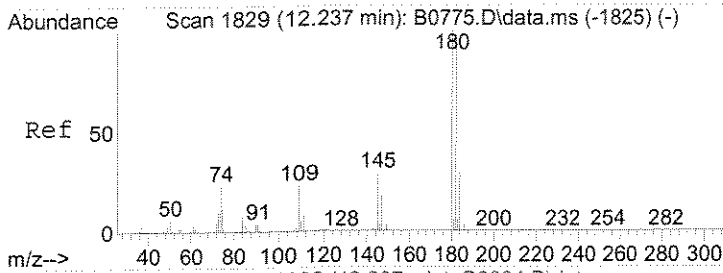
Tgt Ion	Ratio	Lower	Upper
146	100		
148	68.0	51.2	76.8
111	44.3	30.0	45.0



#104
 1,2-Dclbenz
 Concen: 0.83 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. -0.000 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

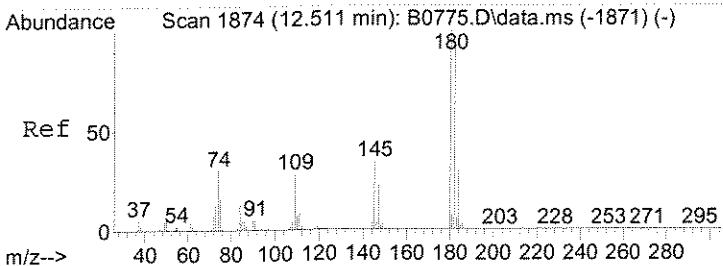
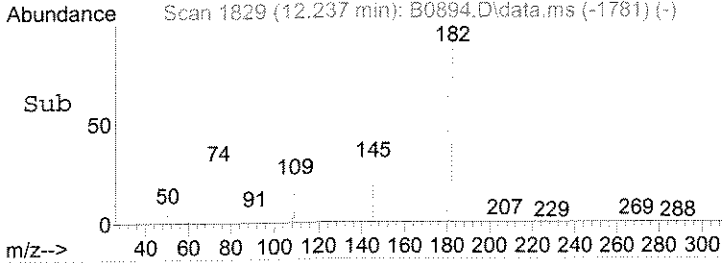
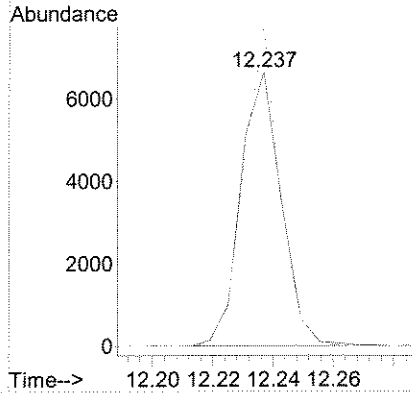
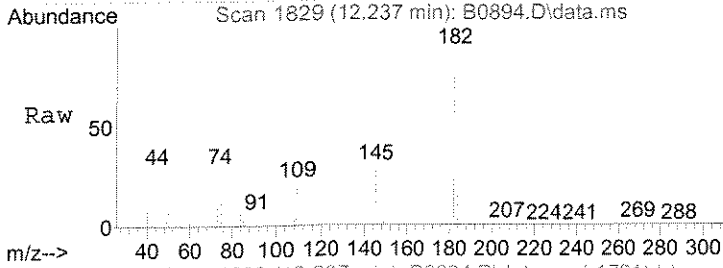
Tgt Ion	Ratio	Lower	Upper
146	100		
148	61.3	50.3	75.5
111	48.7	33.0	49.4





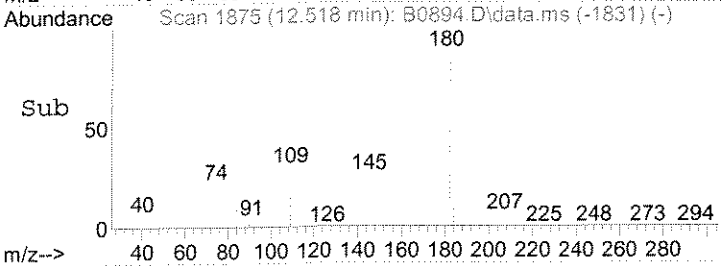
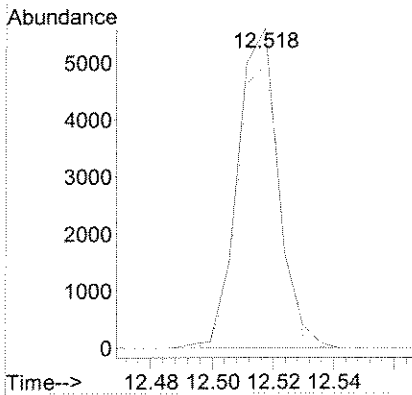
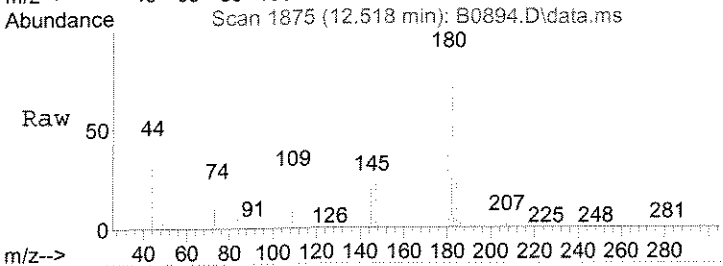
#107
 1,2,4-Tc benzene
 Concen: 0.37 ug/L
 RT: 12.237 min Scan# 1829
 Delta R.T. -0.000 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	6259		
182	116.9		77.8	116.6#
145	35.5		23.2	34.8#



#110
 1,2,3-Tcl benzene
 Concen: 0.34 ug/L
 RT: 12.518 min Scan# 1875
 Delta R.T. -0.000 min
 Lab File: B0894.D
 Acq: 2 Jul 2008 10:18 pm

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	5259		
182	88.8		74.4	111.6
145	26.1		27.2	40.8#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-88BB

Date Sampled : 06/26/08 08:00 Order #: 1112872 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	5.00		
ACETONE	20	13 JD	UG/L
BENZENE	1.0	5.0 U	UG/L
BROMOBENZENE	2.0	10 U	UG/L
BROMOCHLOROMETHANE	2.0	10 U	UG/L
BROMODICHLOROMETHANE	1.0	5.0 U	UG/L
BROMOFORM	1.0	5.0 U	UG/L
BROMOMETHANE	2.0	10 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
TERT-BUTYL ALCOHOL	100	13 JDB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	5.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	5.0 U	UG/L
TERT-BUTYLBENZENE	2.0	10 U	UG/L
SEC-BUTYLBENZENE	2.0	10 U	UG/L
N-BUTYLBENZENE	5.0	25 U	UG/L
CARBON TETRACHLORIDE	1.0	2.2 JD	UG/L
CHLOROBENZENE	1.0	5.0 U	UG/L
CHLOROETHANE	2.0	10 U	UG/L
CHLOROFORM	1.0	460 D	UG/L
CHLOROMETHANE	2.0	10 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	25 U	UG/L
2-CHLOROTOLUENE	5.0	25 U	UG/L
4-CHLOROTOLUENE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	1.0	5.0 U	UG/L
1,2-DIBROMOETHANE	1.0	5.0 U	UG/L
DIBROMOMETHANE	1.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	1.0 JD	UG/L
1,4-DICHLOROBENZENE	2.0	1.3 JD	UG/L
1,3-DICHLOROBENZENE	2.0	10 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	5.0 U	UG/L
1,1-DICHLOROETHANE	1.0	5.0 U	UG/L
1,2-DICHLOROETHANE	1.0	5.0 U	UG/L
1,1-DICHLOROETHENE	1.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	5.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	10 U	UG/L
1,2-DICHLOROPROPANE	1.0	5.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	10 U	UG/L
1,1-DICHLOROPROPENE	2.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	5.0 U	UG/L
ETHYLBENZENE	1.0	5.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
DI-ISOPROPYL ETHER	1.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
 Client Sample ID : M-88BB

Date Sampled : 06/26/08 08:00 Order #: 1112872 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	5.00		
ISOPROPYLBENZENE	2.0	10 U	UG/L
P-ISOPROPYLTOLUENE	2.0	10 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	5.0 U	UG/L
METHYLENE CHLORIDE	2.0	10 U	UG/L
NAPHTHALENE	2.0	10 U	UG/L
4-METHYL-2-PENTANONE	10	50 U	UG/L
N-PROPYLBENZENE	2.0	10 U	UG/L
STYRENE	1.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	5.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 JD	UG/L
TOLUENE	1.0	5.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	10 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	5.0 U	UG/L
TRICHLOROETHENE	1.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	10 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	10 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	10 U	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
M+P-XYLENE	2.0	10 U	UG/L
O-XYLENE	1.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Sample : 1112872 5.0
 Data File : J:\ACQU\DATA\MSVOA10\DATA\070308\B0907.D Vial: 6
 Acq On : 3 Jul 2008 3:27 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

DL

Quant Time: Jul 03 15:41:20 2008
 Quant Method : J:\ACQU\DATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1373681	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2227102	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2058484	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1095235	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	707977	48.18	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	96.36%		
49) surr1,1,2-dichloroetha...	4.891	65	743284	53.10	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.20%		
65) SURR3,Toluene-d8	7.451	98	2633889	54.33	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.66%		
70) SURR2,BFB	9.896	95	1064890	53.34	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.68%		
Target Compounds							
16) Acetone	2.123	43	4345	2.56	ug/L		94
17) 2-Propanol	2.196	45	1289	3.58	ug/L #		77
21) Allyl Chloride	2.276	76	2224	0.43	ug/L #		1
24) TBA	2.513	59	1486	2.60	ug/L #		70
40) Tetrahydrofuran	4.098	42	2887	1.77	ug/L #		1
41) Chloroform	4.117	83	1819829	91.31	ug/L		99
47) Carbontetrachloride	4.641	121	2455	0.45	ug/L		97
72) Tetrachloroethene	8.073	164	2136	0.21	ug/L #		85
85) Cyclohexanone	9.847	55	321	0.34	ug/L #		75
101) 1,4-Dclbenz	10.865	146	7527	0.26	ug/L #		60
104) 1,2-Dclbenz	11.164	146	5251	0.20	ug/L		96
109) Naphthalen	12.383	128	1878	0.58	ug/L #		93

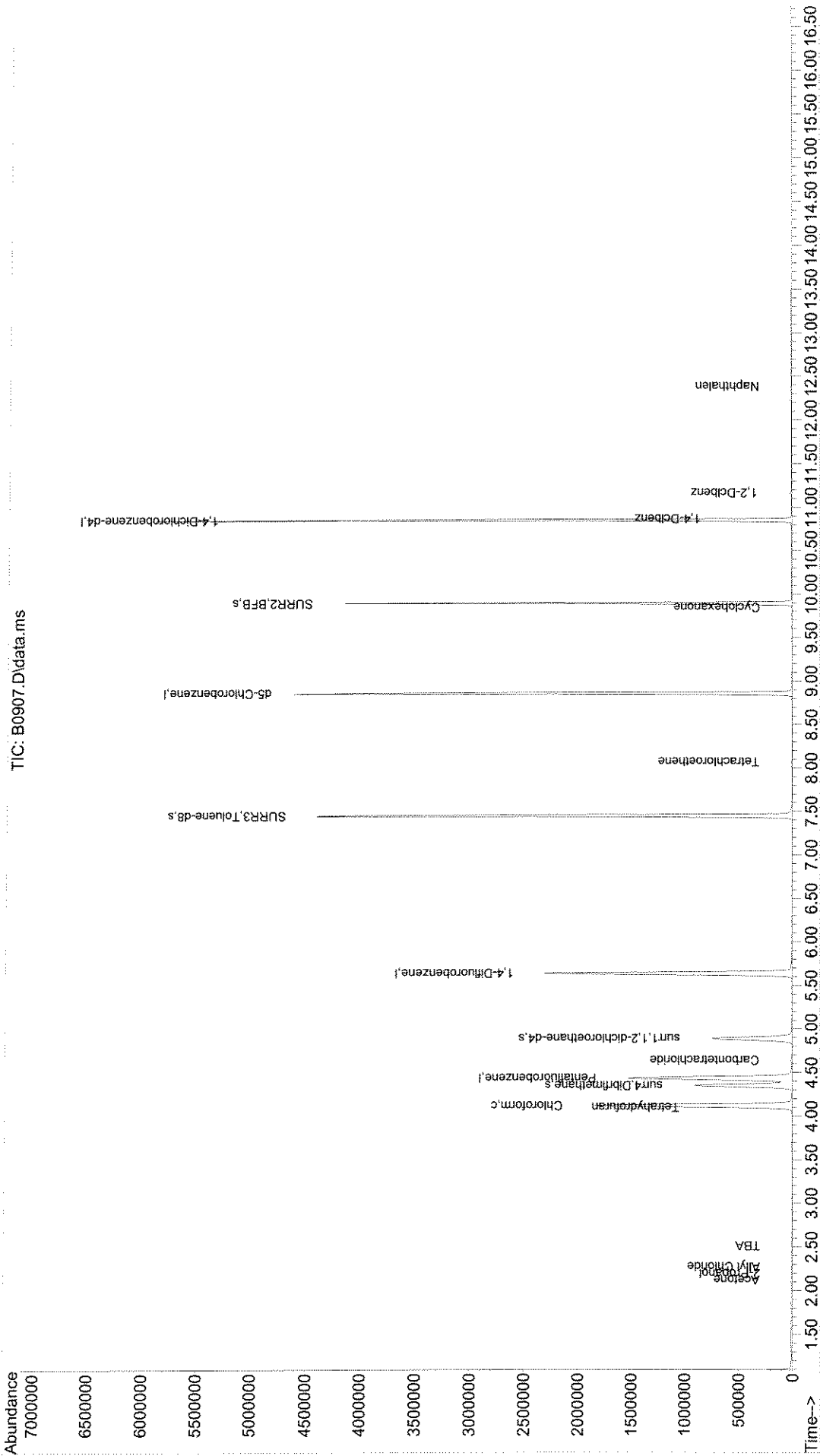
(#) = qualifier out of range (m) = manual integration (+) = signals summed

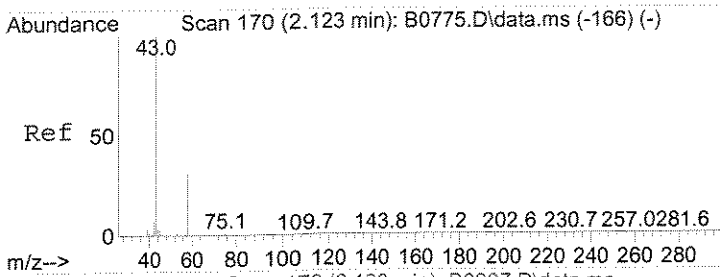
Fu
7/1/08



Sample : 1112872 5.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0907.D Vial: 6
 Acq On : 3 Jul 2008 3:27 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

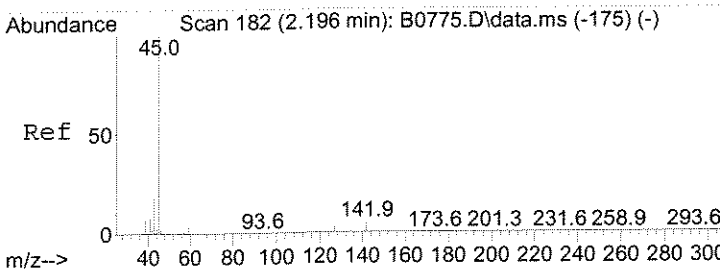
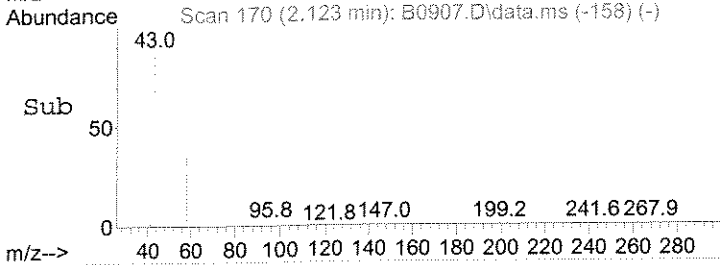
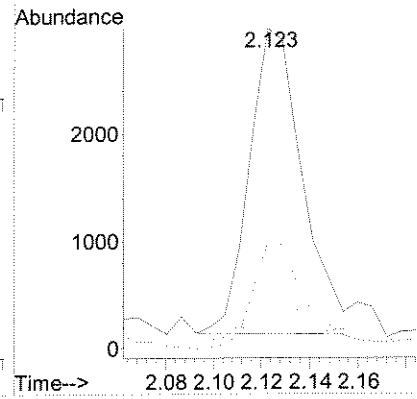
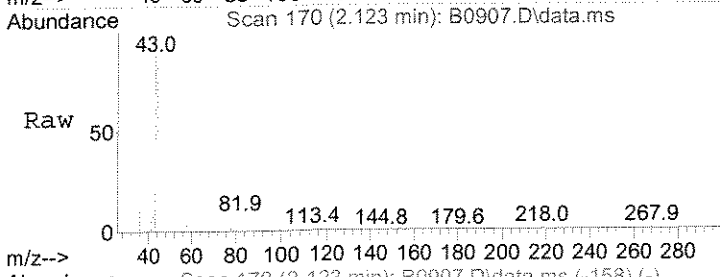
Quant Time: Jul 03 15:41:20 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





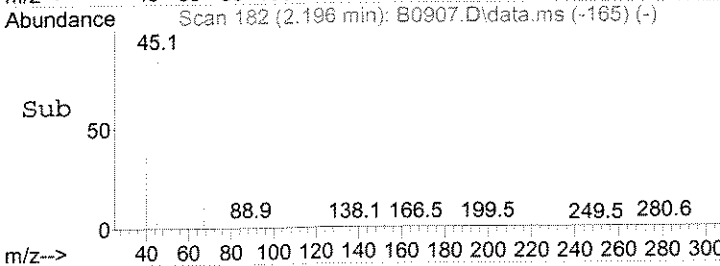
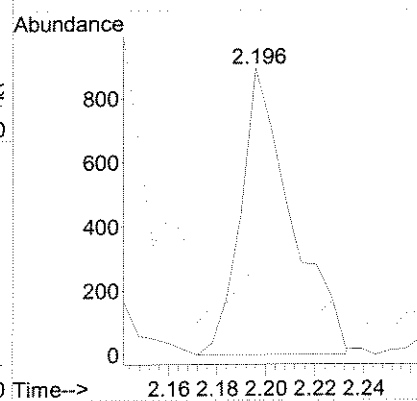
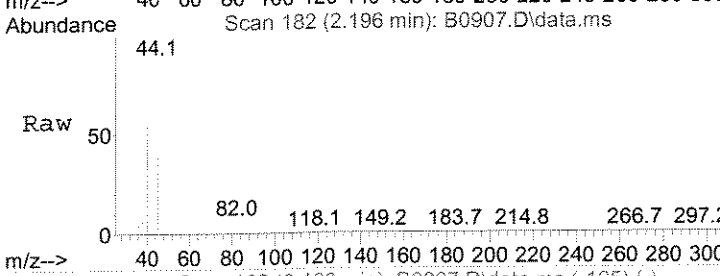
#16
 Acetone
 Concen: 2.56 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0907.D
 Acq: 3 Jul 2008 3:27 pm

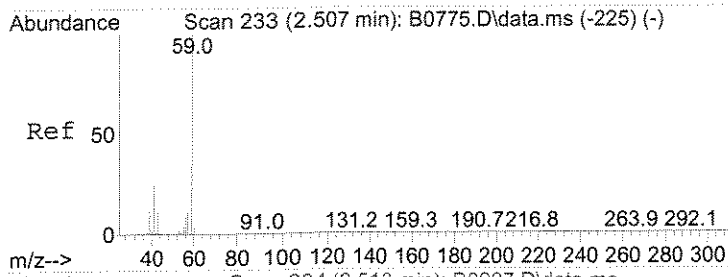
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	4345		
58	34.0		0.9	60.9
42	9.3		0.0	37.2



#17
 2-Propanol
 Concen: 3.58 ug/L
 RT: 2.196 min Scan# 182
 Delta R.T. -0.006 min
 Lab File: B0907.D
 Acq: 3 Jul 2008 3:27 pm

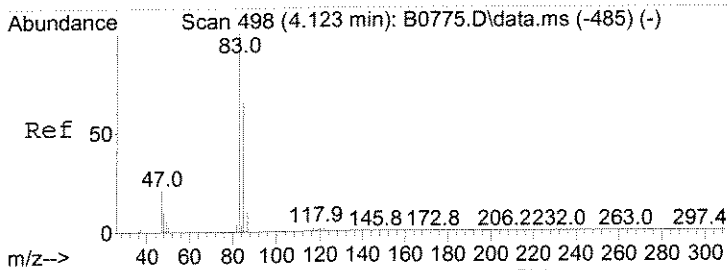
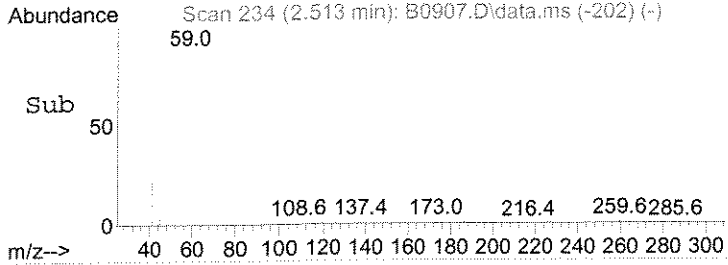
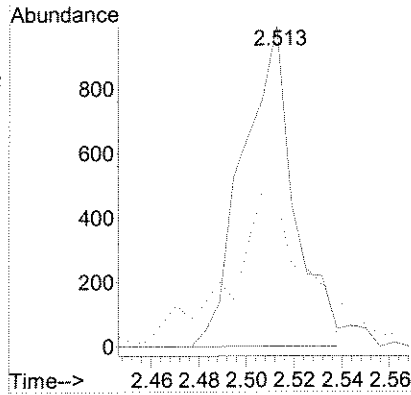
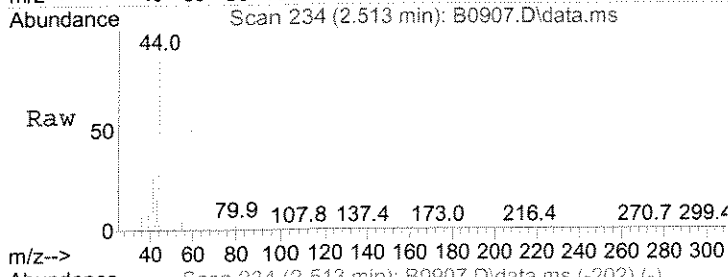
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	1289		
43	31.8		17.0	25.4#





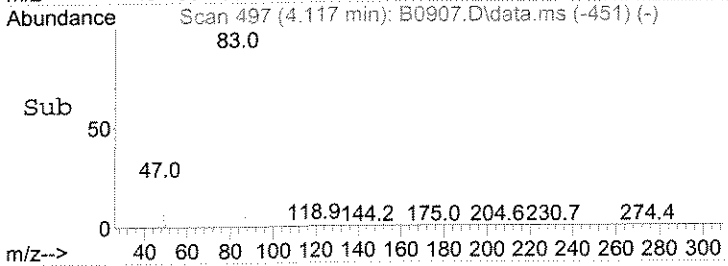
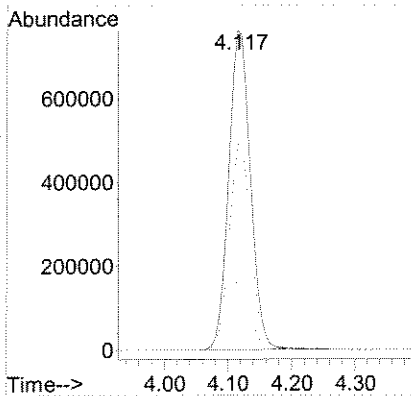
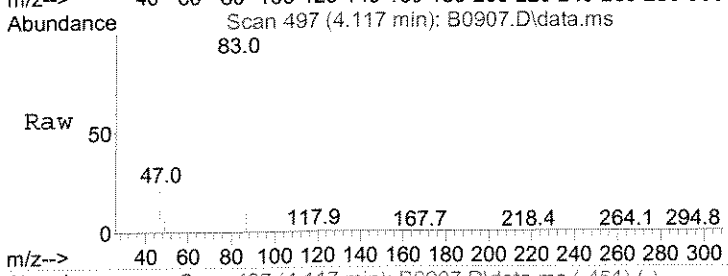
#24
 TBA
 Concen: 2.60 ug/L
 RT: 2.513 min Scan# 234
 Delta R.T. 0.006 min
 Lab File: B0907.D
 Acq: 3 Jul 2008 3:27 pm

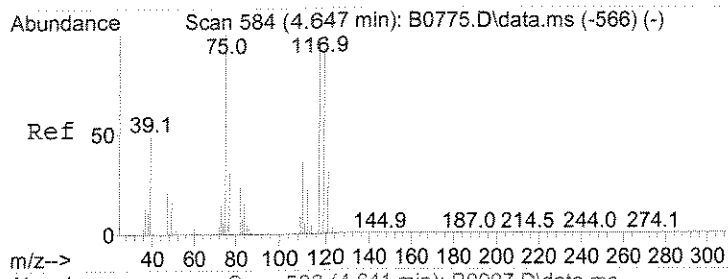
Tgt Ion	Resp	Lower	Upper
59	100		
41	45.3	14.5	43.6#



#41
 Chloroform
 Concen: 91.31 ug/L
 RT: 4.117 min Scan# 497
 Delta R.T. -0.006 min
 Lab File: B0907.D
 Acq: 3 Jul 2008 3:27 pm

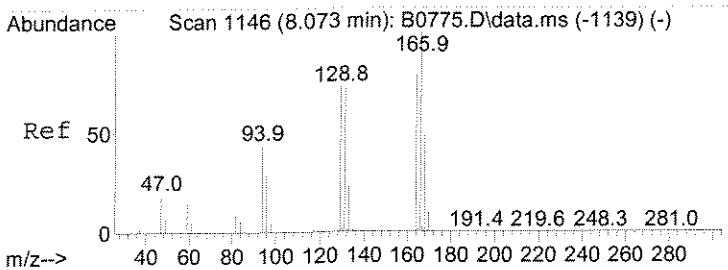
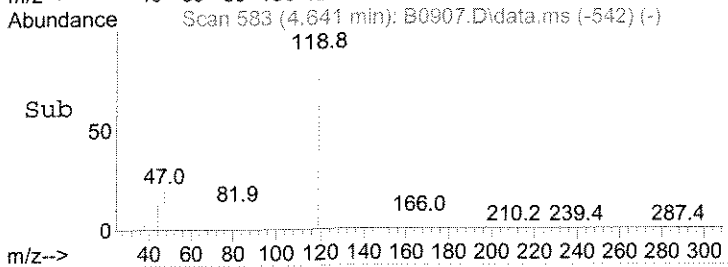
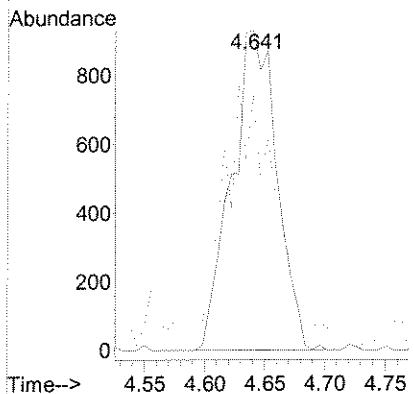
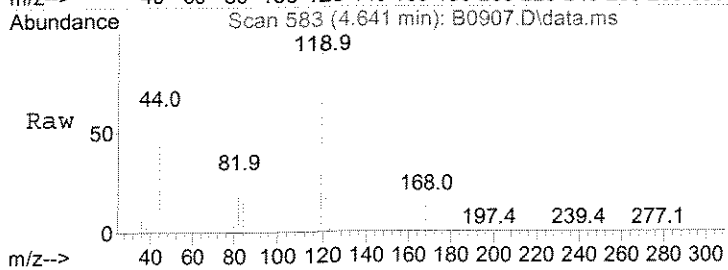
Tgt Ion	Resp	Lower	Upper
83	100		
85	64.5	51.7	77.5
47	22.5	17.1	25.7





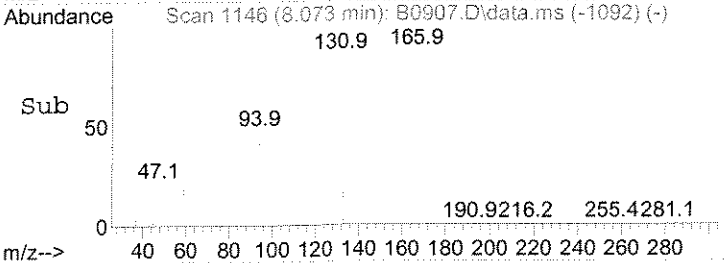
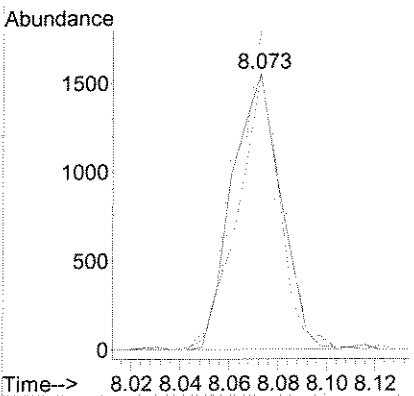
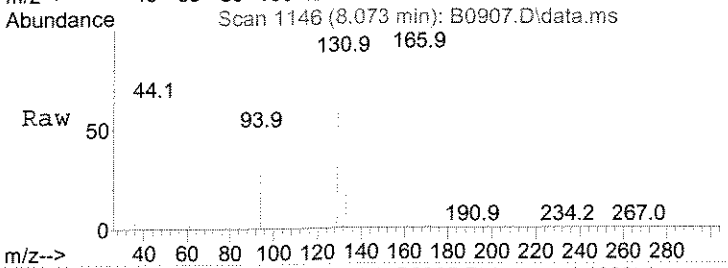
#47
 Carbontetrachloride
 Concen: 0.45 ug/L
 RT: 4.641 min Scan# 583
 Delta R.T. -0.000 min
 Lab File: B0907.D
 Acq: 3 Jul 2008 3:27 pm

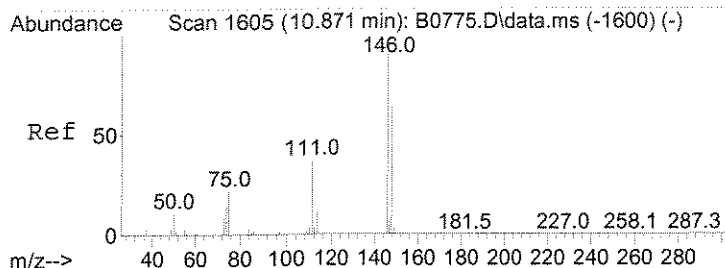
Tgt Ion	Ratio	Lower	Upper
121	100		
82	80.0	62.0	93.0



#72
 Tetrachloroethene
 Concen: 0.21 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0907.D
 Acq: 3 Jul 2008 3:27 pm

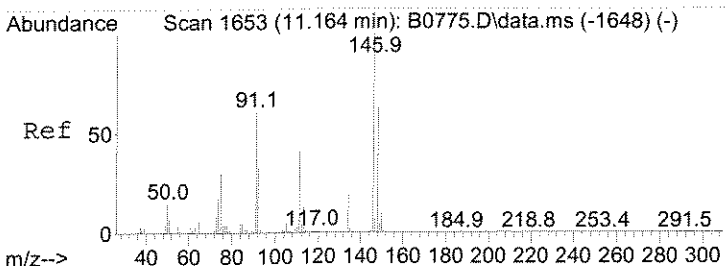
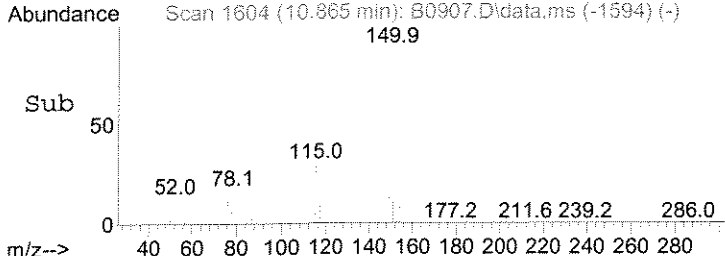
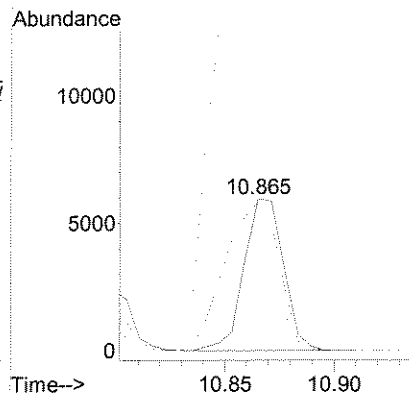
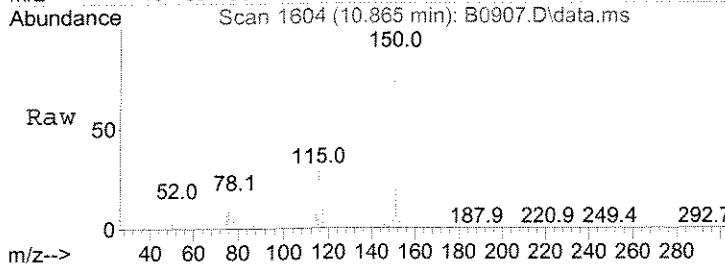
Tgt Ion	Ratio	Lower	Upper
164	100		
166	115.8	101.5	152.3
129	66.6	73.8	110.6#
131	99.7	72.9	109.3





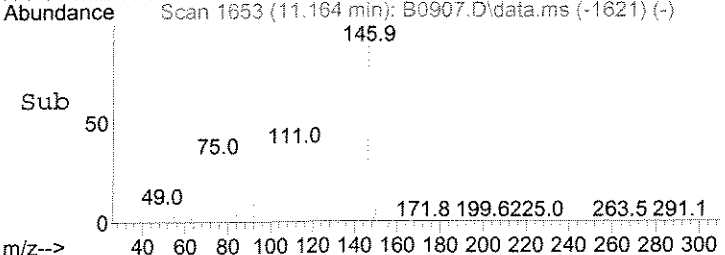
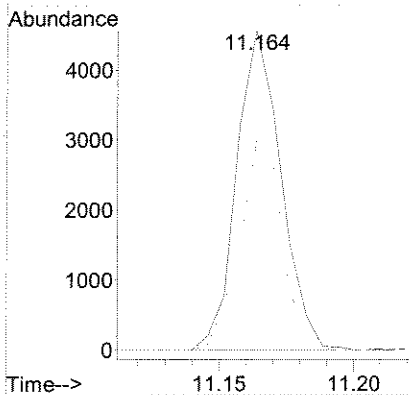
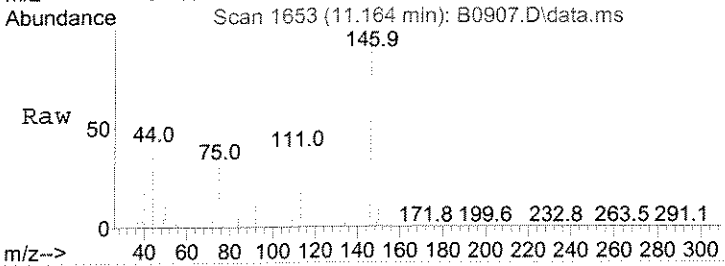
#101
 1,4-Dclbenz
 Concen: 0.26 ug/L
 RT: 10.865 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: B0907.D
 Acq: 3 Jul 2008 3:27 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	98.0	51.2	76.8#
111	58.5	30.0	45.0#



#104
 1,2-Dclbenz
 Concen: 0.20 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. -0.000 min
 Lab File: B0907.D
 Acq: 3 Jul 2008 3:27 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	65.6	50.3	75.5
111	37.5	33.0	49.4



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-7BB

Date Sampled : 06/26/08 09:20 Order #: 1112874 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.4 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	4.6 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	2.1	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	2.5	UG/L
1,2-DICHLOROETHANE	1.0	1.8	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-7BB

Date Sampled : 06/26/08 09:20 Order #: 1112874 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.25 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	0.21 J	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Sample : 1112874 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0908.D Vial: 7
 Acq On : 3 Jul 2008 3:56 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 16:11:11 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

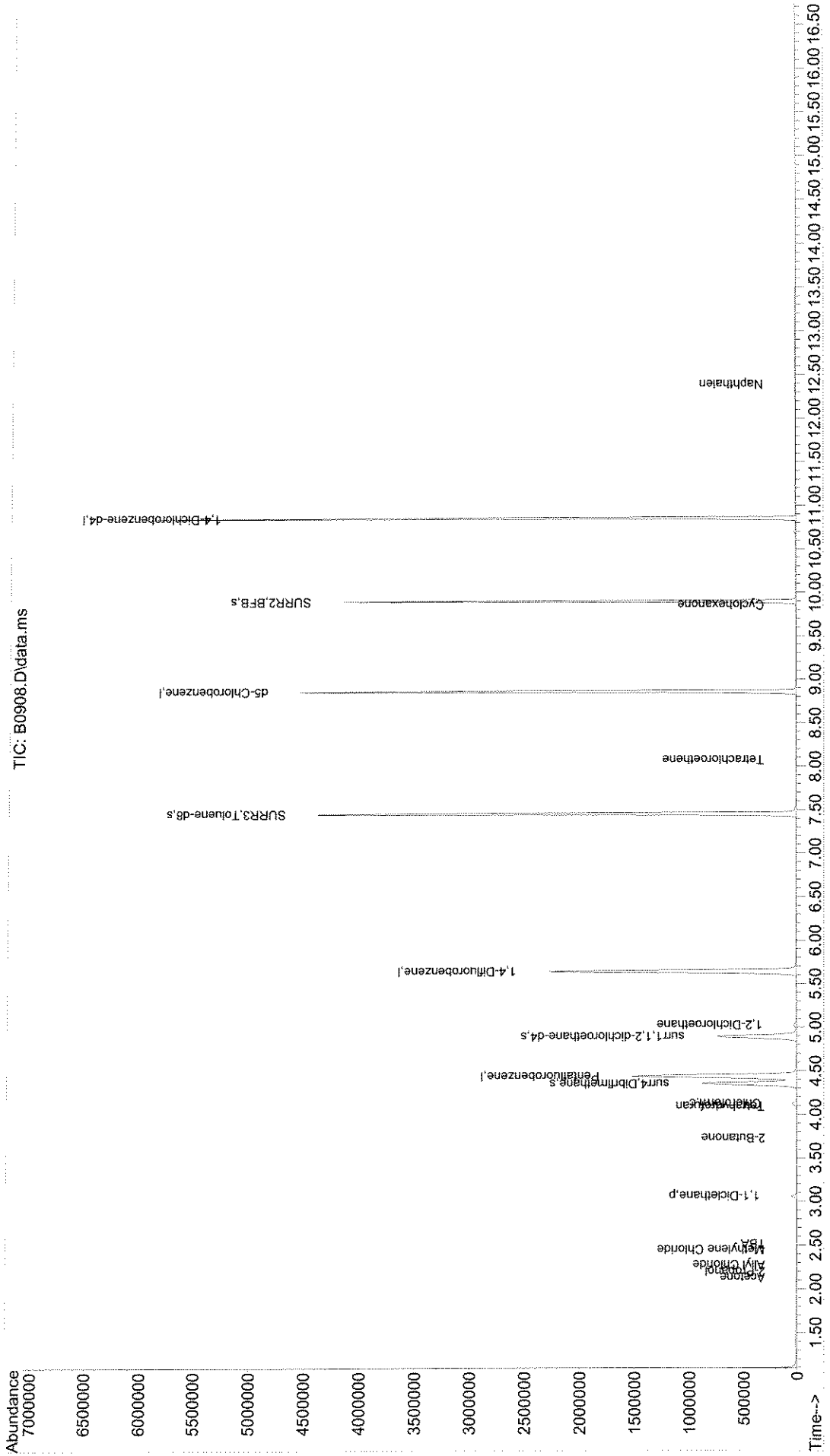
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1351291	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2203798	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2030616	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1087787	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4, Dibrflmethane	4.348	113	701276	48.24	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	96.48%		
49) surr1, 1,2-dichloroetha...	4.891	65	747099	53.93	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.86%		
65) SURR3, Toluene-d8	7.451	98	2624845	54.72	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.44%		
70) SURR2, BFB	9.896	95	1051309	53.21	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.42%		
Target Compounds							
16) Acetone	2.129	43	2366	1.42	ug/L	91	J
17) 2-Propanol	2.196	45	399	1.13	ug/L	94	NT
21) Allyl Chloride	2.276	76	1993	0.39	ug/L #	1	
23) Methylene Chloride	2.446	84	2820	0.25	ug/L #	91	
24) TBA	2.513	59	2557	4.55	ug/L	88	J JB
28) 1,1-Dicethane	3.062	63	47918	2.49	ug/L	98	
35) 2-Butanone	3.727	43	798	0.29	ug/L #	54	
40) Tetrahydrofuran	4.092	42	330	0.21	ug/L #	30	
41) Chloroform	4.123	83	40362	2.06	ug/L	98	
51) 1,2-Dichloroethane	5.025	62	27463	1.79	ug/L	98	
72) Tetrachloroethene	8.073	164	2088	0.21	ug/L	96	J
85) Cyclohexanone	9.853	55	1433	1.55	ug/L #	31	
109) Naphthalen	12.383	128	1312	0.57	ug/L #	79	< LR

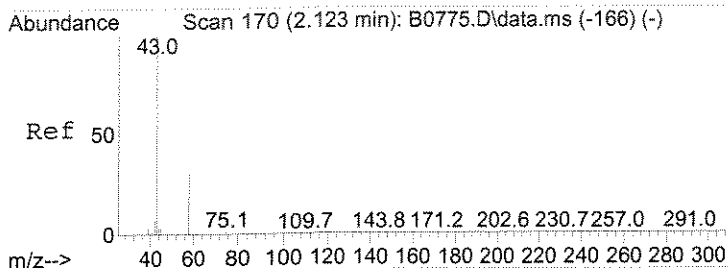
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FD
7/11/08

Sample : 1112874 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0908.D Vial: 7
 Acq On : 3 Jul 2008 3:56 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

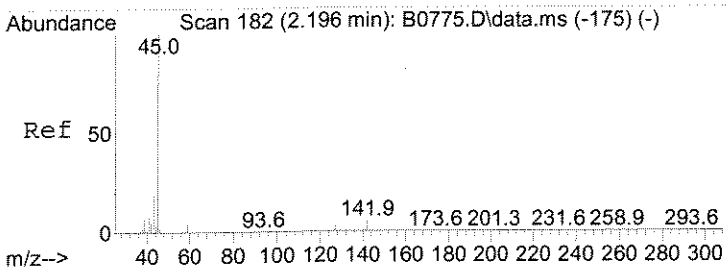
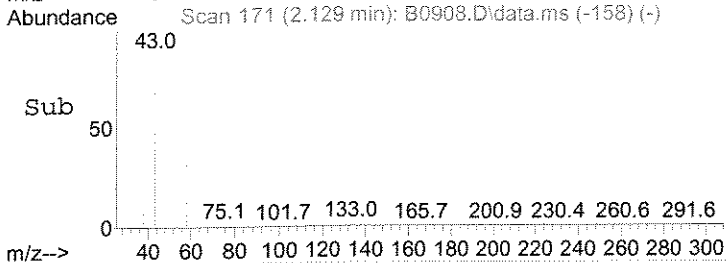
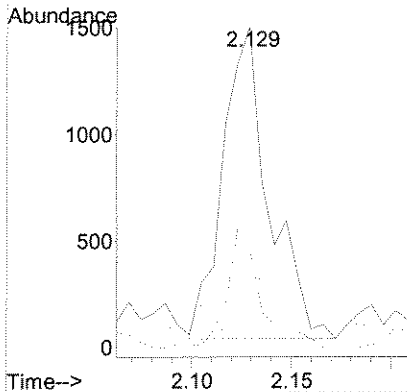
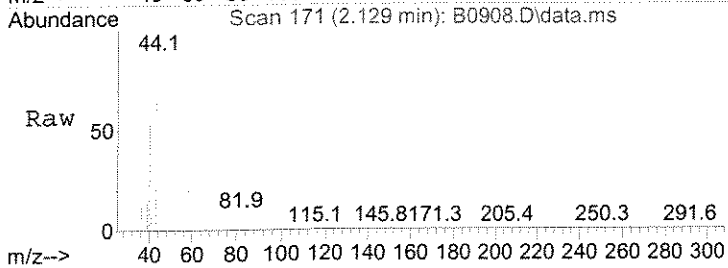
Quant Time: Jul 03 16:11:11 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 Quant Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





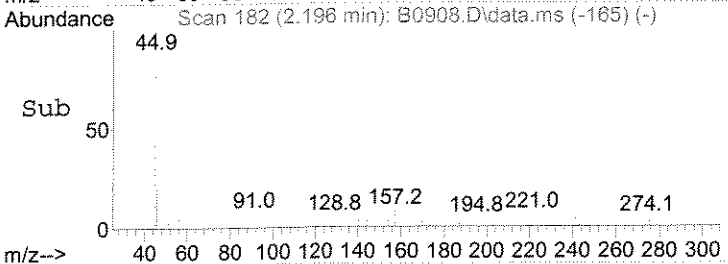
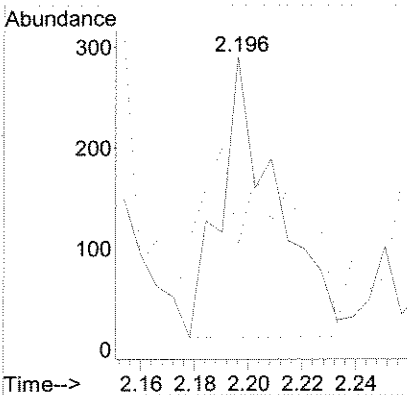
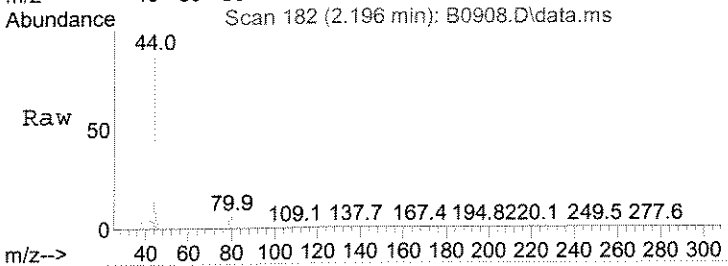
#16
 Acetone
 Concen: 1.42 ug/L
 RT: 2.129 min Scan# 171
 Delta R.T. 0.006 min
 Lab File: B0908.D
 Acq: 3 Jul 2008 3:56 pm

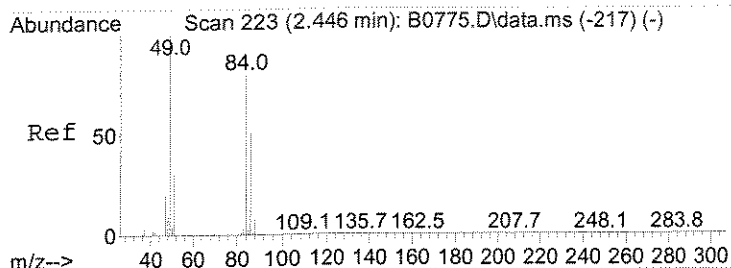
Tgt Ion	Resp	Lower	Upper
43	100		
58	30.2	0.9	60.9
42	22.4	0.0	37.2



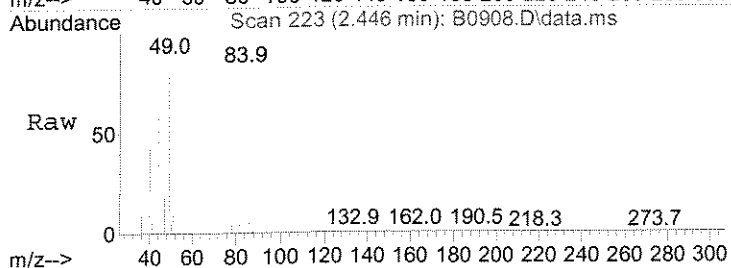
#17
 2-Propanol
 Concen: 1.13 ug/L
 RT: 2.196 min Scan# 182
 Delta R.T. -0.006 min
 Lab File: B0908.D
 Acq: 3 Jul 2008 3:56 pm

Tgt Ion	Resp	Lower	Upper
45	100		
43	24.2	17.0	25.4

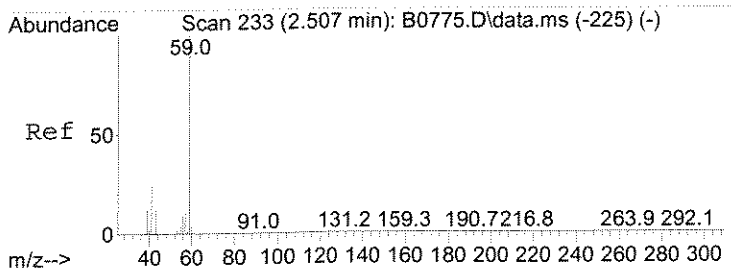
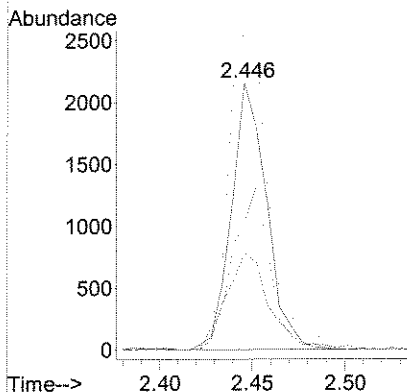
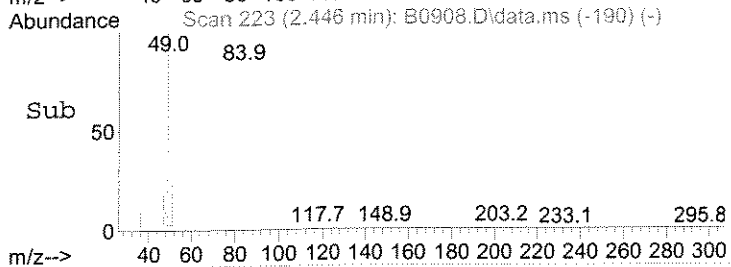




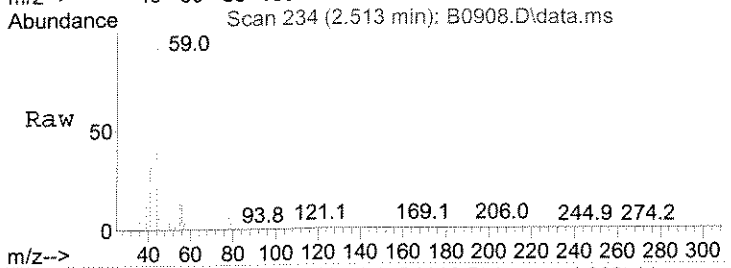
#23
 Methylene Chloride
 Concen: 0.25 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0908.D
 Acq: 3 Jul 2008 3:56 pm



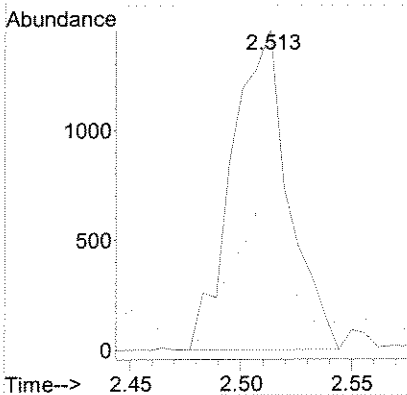
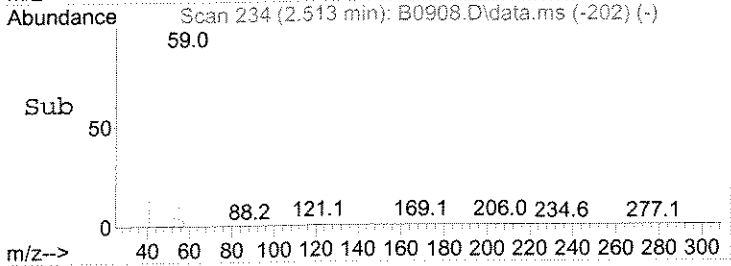
Tgt Ion: 84 Resp: 2820
 Ion Ratio Lower Upper
 84 100
 86 47.8 50.5 75.7#
 49 118.2 99.5 149.3
 51 35.8 31.1 46.7

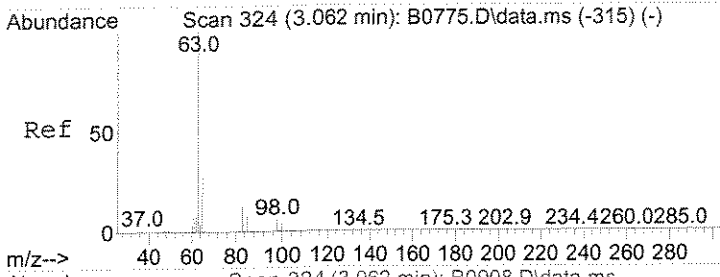


#24
 TBA
 Concen: 4.55 ug/L
 RT: 2.513 min Scan# 234
 Delta R.T. 0.006 min
 Lab File: B0908.D
 Acq: 3 Jul 2008 3:56 pm



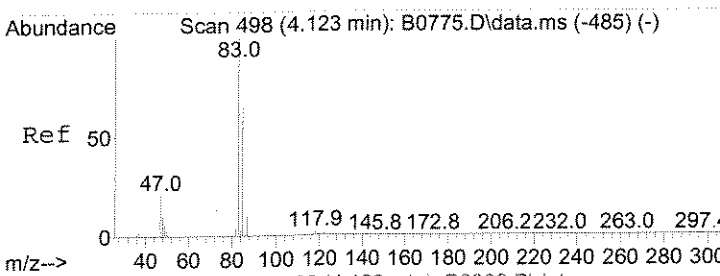
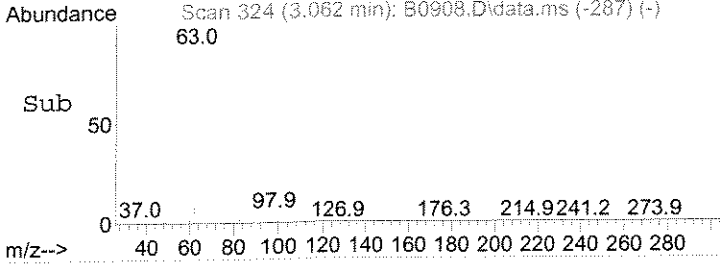
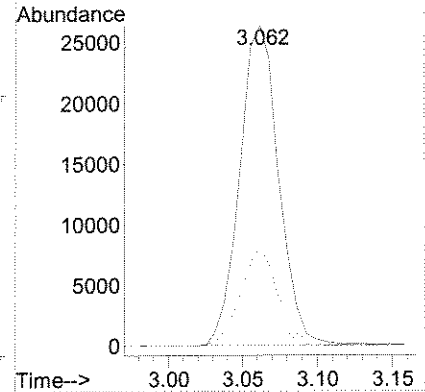
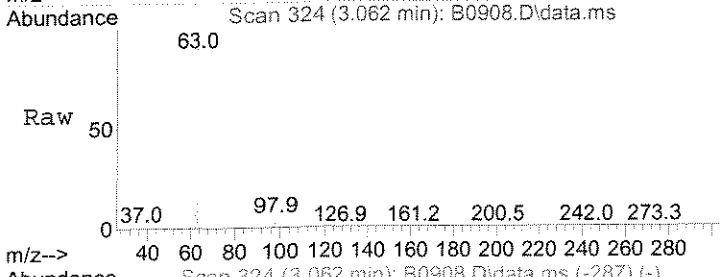
Tgt Ion: 59 Resp: 2557
 Ion Ratio Lower Upper
 59 100
 41 35.7 14.5 43.6





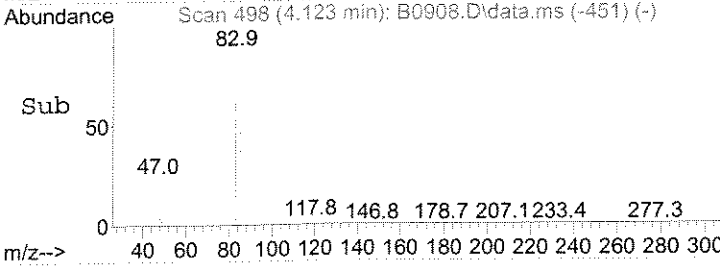
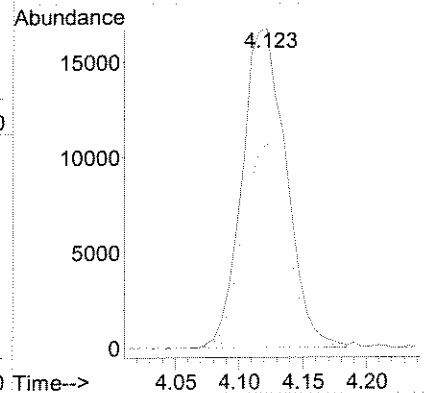
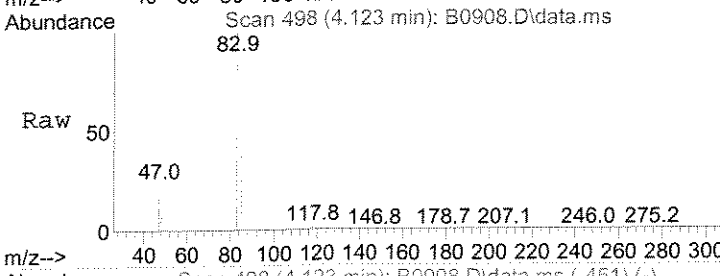
#28
 1,1-Dicylethane
 Concen: 2.49 ug/L
 RT: 3.062 min Scan# 324
 Delta R.T. -0.000 min
 Lab File: B0908.D
 Acq: 3 Jul 2008 3:56 pm

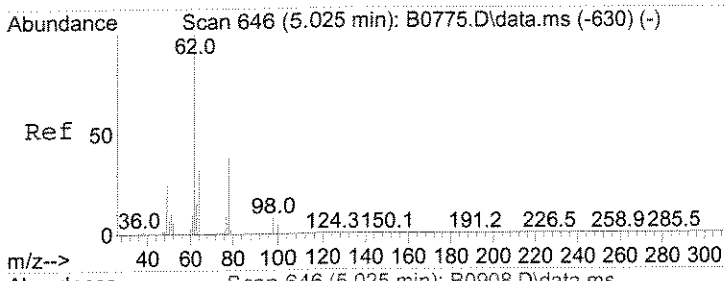
Tgt Ion	Resp	Lower	Upper
63	100		
65	31.4	24.9	37.3
83	14.9	10.5	15.7



#41
 Chloroform
 Concen: 2.06 ug/L
 RT: 4.123 min Scan# 498
 Delta R.T. -0.000 min
 Lab File: B0908.D
 Acq: 3 Jul 2008 3:56 pm

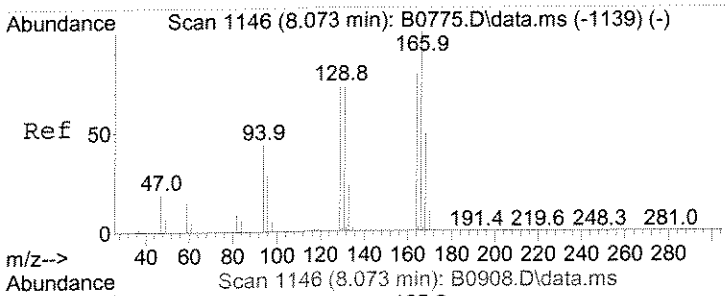
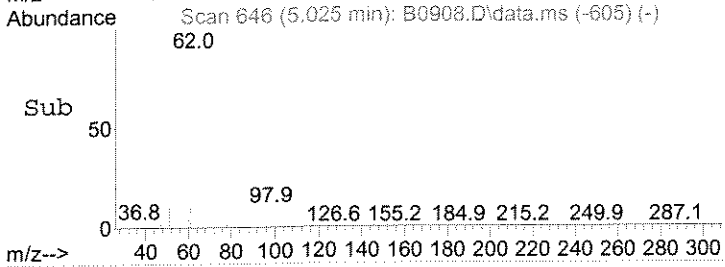
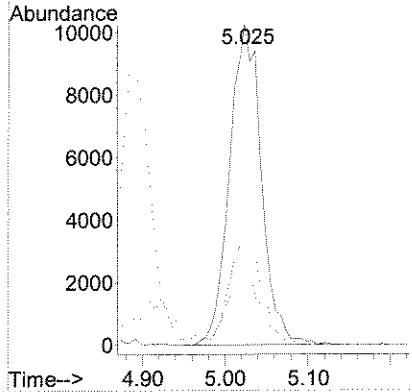
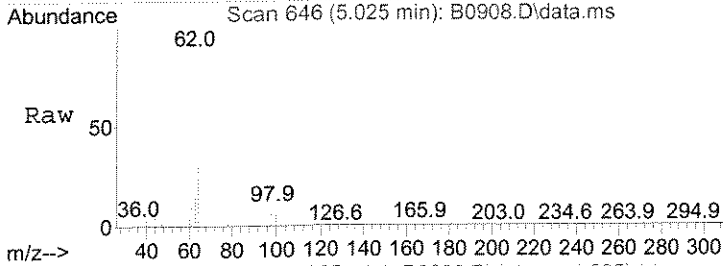
Tgt Ion	Resp	Lower	Upper
83	100		
85	63.8	51.7	77.5
47	23.6	17.1	25.7





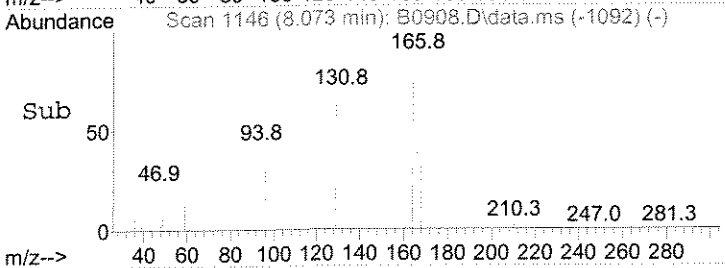
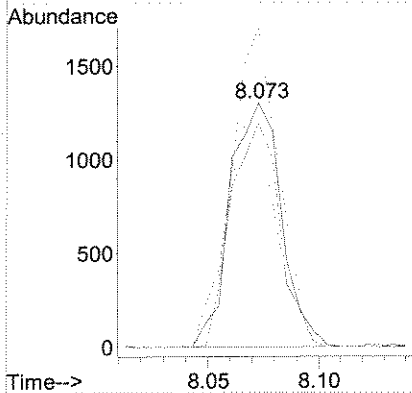
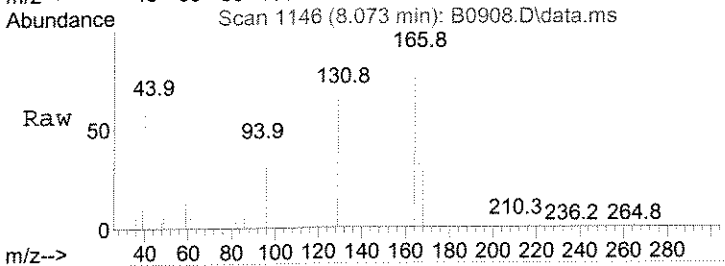
#51
 1,2-Dichloroethane
 Concen: 1.79 ug/L
 RT: 5.025 min Scan# 646
 Delta R.T. -0.000 min
 Lab File: B0908.D
 Acq: 3 Jul 2008 3:56 pm

Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.2	26.5	39.7
49	24.9	20.2	30.4



#72
 Tetrachloroethene
 Concen: 0.21 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0908.D
 Acq: 3 Jul 2008 3:56 pm

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.9	101.5	152.3
129	86.2	73.8	110.6
131	91.9	72.9	109.3



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : TRIP BLANK

Date Sampled : 06/26/08 14:00 Order #: 1112876 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	1.4 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	1.9 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
 Client Sample ID : TRIP BLANK

Date Sampled : 06/26/08 14:00 Order #: 1112876 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Sample : 1112876 1.0
 Data File : J:\ACQUADATA\MSVOA10\DATA\070308\B0909.D Vial: 8
 Acq On : 3 Jul 2008 4:26 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 16:41:02 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

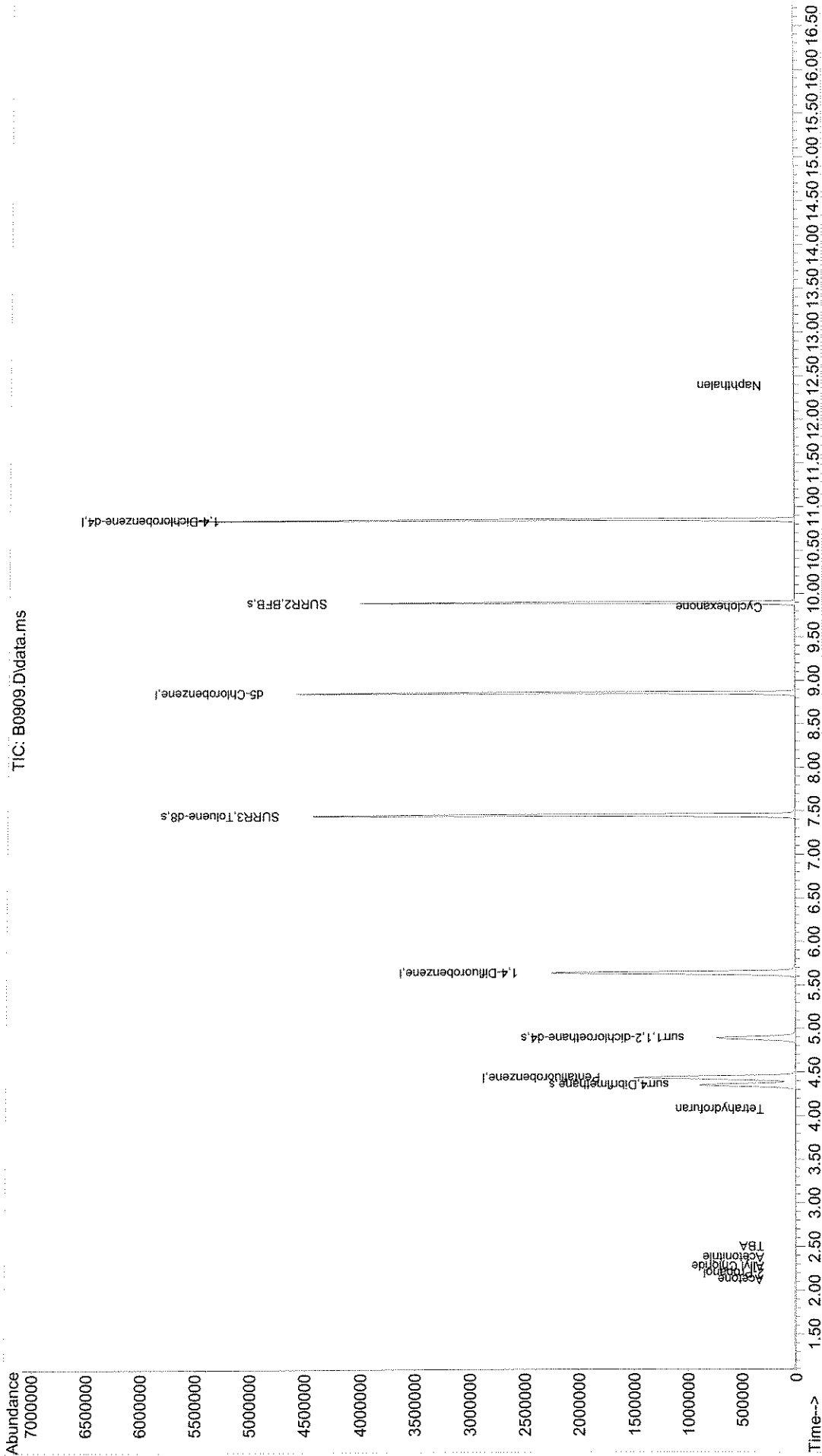
Internal Standards						
1) Pentafluorobenzene	4.434	168	1338553	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	2195529	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	2023508	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1079581	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.354	113	703496	48.69	ug/L	0.00
Spiked Amount	50.000		Recovery	=	97.38%	
49) surr1,1,2-dichloroetha...	4.891	65	731166	52.98	ug/L	0.00
Spiked Amount	50.000		Recovery	=	105.96%	
65) SURR3,Toluene-d8	7.451	98	2616434	54.75	ug/L	0.00
Spiked Amount	50.000		Recovery	=	109.50%	
70) SURR2,BFB	9.896	95	1047995	53.25	ug/L	0.00
Spiked Amount	50.000		Recovery	=	106.50%	
Target Compounds						
						Qvalue
16) Acetone	2.123	43	2238	1.36	ug/L	71 J
17) 2-Propanol	2.196	45	379	1.08	ug/L #	1
20) Acetonitrile	2.379	40	565	2.45	ug/L #	1
21) Allyl Chloride	2.276	76	2002	0.40	ug/L #	1
24) TBA	2.507	59	1080	1.94	ug/L #	40 JB
40) Tetrahydrofuran	4.074	42	598	0.38	ug/L #	54
85) Cyclohexanone	9.841	55	335	0.36	ug/L #	36
109) Naphthalen	12.383	128	1045	0.56	ug/L #	85 LCR

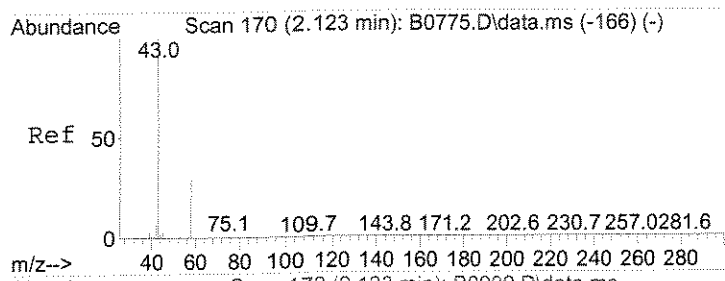
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FU 7/11/08

Sample : 1112876 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0909.D Vial: 8
 Acq On : 3 Jul 2008 4:26 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

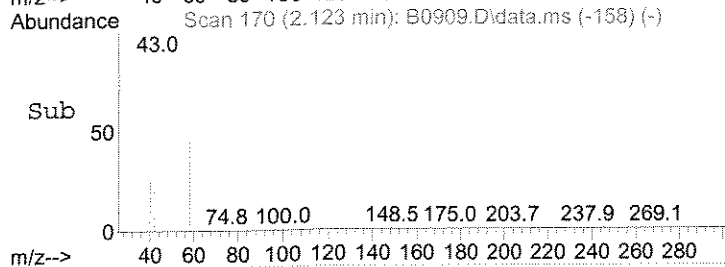
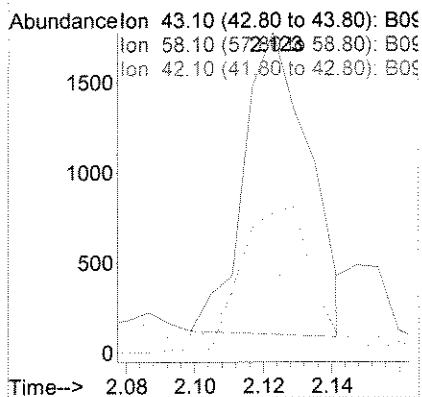
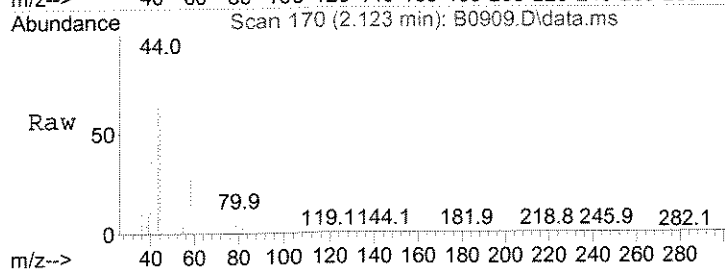
Quant Time: Jul 03 16:41:02 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

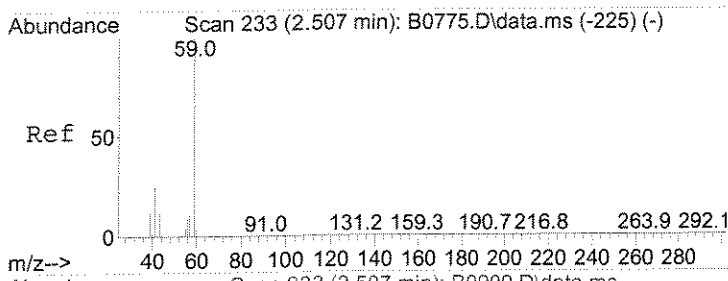




#16
 Acetone
 Concen: 1.36 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0909.D
 Acq: 3 Jul 2008 4:26 pm

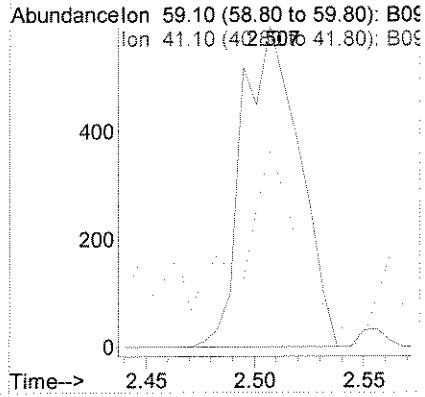
Tgt Ion	Resp	Lower	Upper
43	100		
58	43.7	0.9	60.9
42	25.6	0.0	37.2





#24
 TBA
 Concen: 1.94 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0909.D
 Acq: 3 Jul 2008 4:26 pm

Tgt Ion: 59 Resp: 1080
 Ion Ratio Lower Upper
 59 100
 41 61.3 14.5 43.6#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : TRIP BLANK

Date Sampled : 06/26/08 14:00 Order #: 1112877 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	2.5 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	1.9 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : TRIP BLANK

Date Sampled : 06/26/08 14:00 Order #: 1112877 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	108	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	98	%

Sample : 1112877 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0910.D Vial: 9
 Acq On : 3 Jul 2008 4:56 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 17:10:47 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

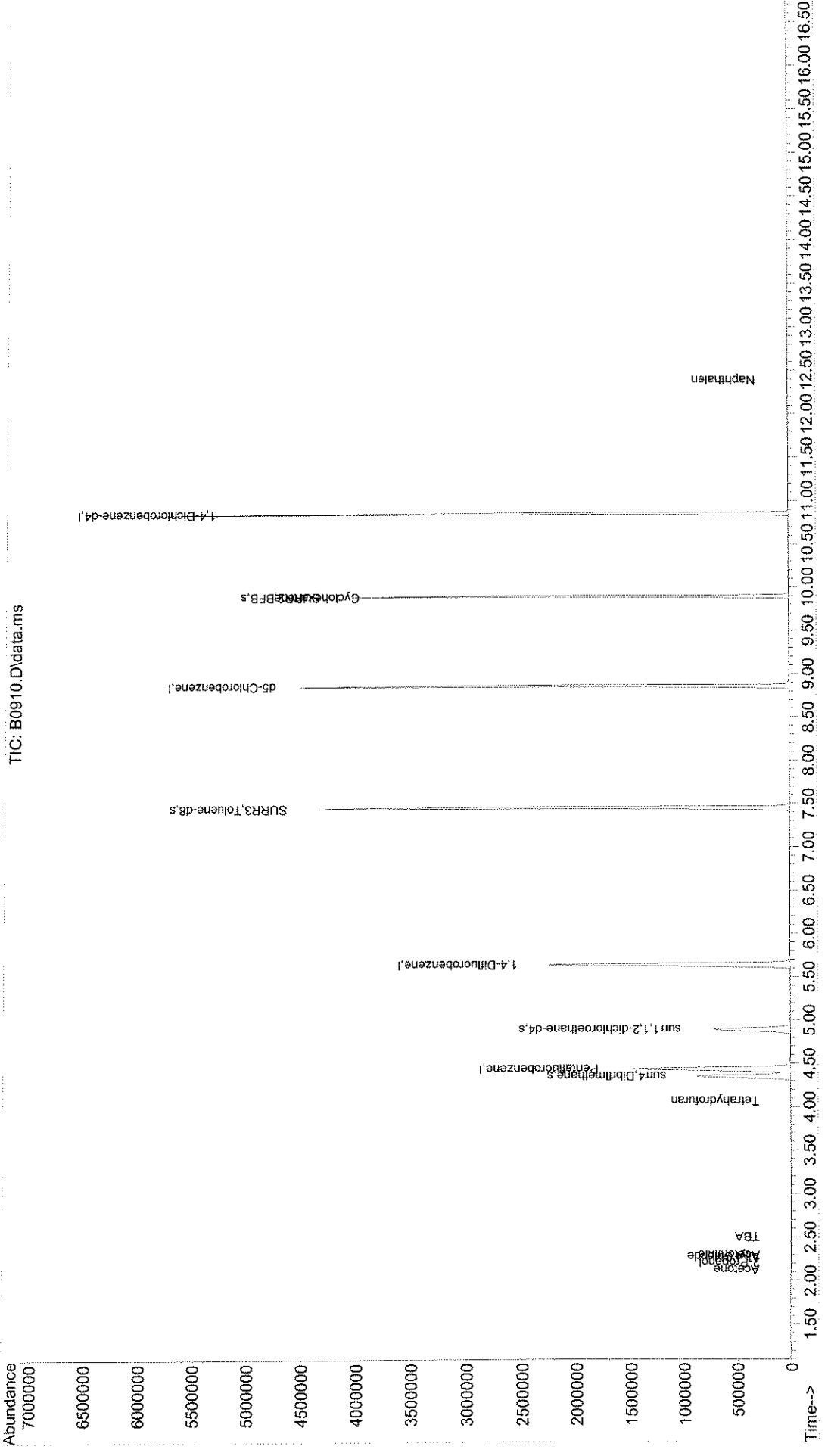
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1328250	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2165086	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2004428	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1076508	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4, Dibromomethane	4.354	113	695227	48.83	ug/L	0.00	
Spiked Amount	50.000						Recovery = 97.66%
49) surr1, 1,2-dichloroetha...	4.891	65	724011	53.20	ug/L	0.00	
Spiked Amount	50.000						Recovery = 106.40%
65) SURR3, Toluene-d8	7.445	98	2581615	54.78	ug/L	0.00	
Spiked Amount	50.000						Recovery = 109.56%
70) SURR2, BFB	9.896	95	1049493	54.07	ug/L	0.00	
Spiked Amount	50.000						Recovery = 108.14%
Target Compounds							
16) Acetone	2.123	43	4075	2.49	ug/L	95	J
17) 2-Propanol	2.208	45	206	0.59	ug/L #	40	
20) Acetonitrile	2.294	40	514	2.24	ug/L #	1	
21) Allyl Chloride	2.275	76	1791	0.36	ug/L #	1	
24) TBA	2.507	59	1050	1.90	ug/L #	52	JB
40) Tetrahydrofuran	4.068	42	590	0.37	ug/L #	30	
85) Cyclohexanone	9.890	55	2162	2.38	ug/L #	26	
109) Naphthalen	12.383	128	1211	0.56	ug/L #	91	CLR

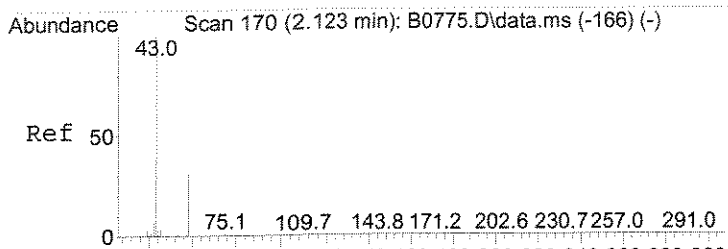
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FJ
7/11/08

Sample : 1112877 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0910.D Vial: 9
 Acq On : 3 Jul 2008 4:56 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

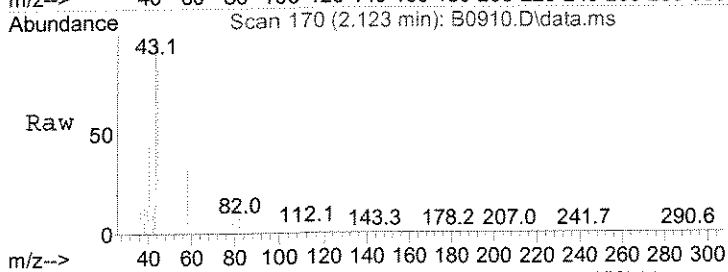
Quant Time: Jul 03 17:10:47 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 Qlast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration



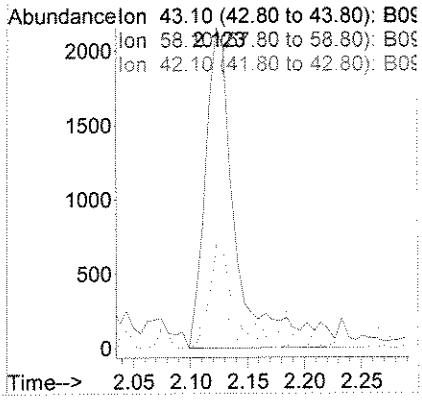
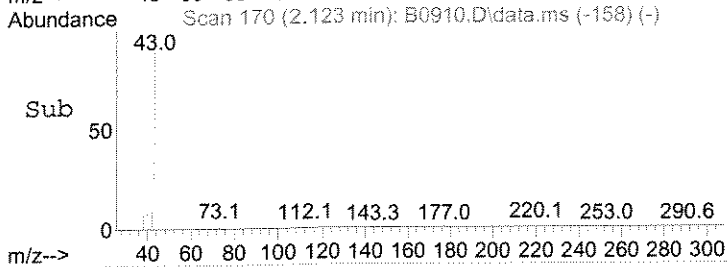


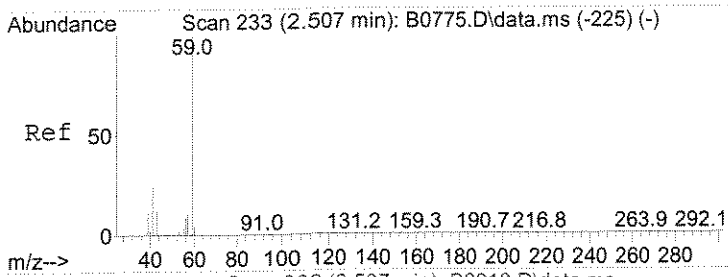
#16
 Acetone
 Concen: 2.49 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0910.D
 Acq: 3 Jul 2008 4:56 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.0	0.9	60.9
42	10.8	0.0	37.2



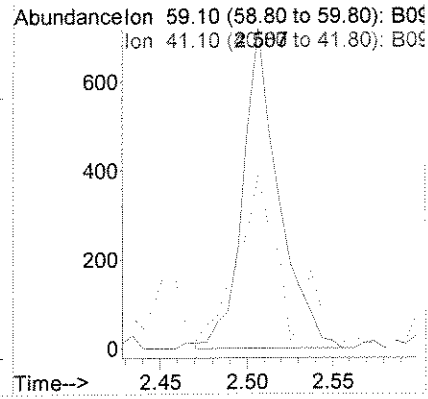
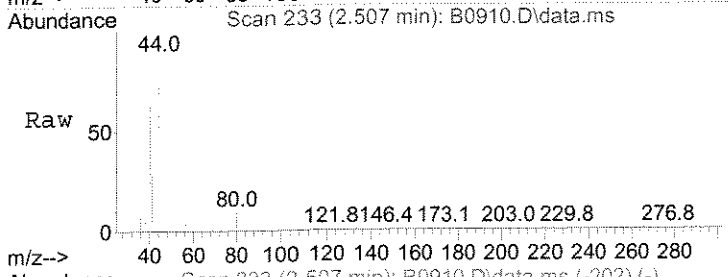
Abundance Ion 43.10 (42.80 to 43.80): B0910.D\data.ms (-158) (-)
 Ion 58.20 (57.80 to 58.80): B0910.D\data.ms (-158) (-)
 Ion 42.10 (41.80 to 42.80): B0910.D\data.ms (-158) (-)





#24
 TBA
 Concen: 1.90 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0910.D
 Acq: 3 Jul 2008 4:56 pm

Tgt Ion	Resp	Lower	Upper
59	1050		
41	54.6	14.5	43.6#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-67B

Date Sampled : 06/27/08 07:00 Order #: 1113426 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	6.4 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	2.3 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	0.27 J	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	840 E	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	0.33 J	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-67B

Date Sampled : 06/27/08 07:00 Order #: 1113426 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.29 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	0.45 J	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	0.31 J	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	99	%

Sample : 1113426 1.0
 Data File : J:\ACQUADATA\MSVOA10\DATA\070308\B0911.D Vial: 10
 Acq On : 3 Jul 2008 5:26 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 17:40:40 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

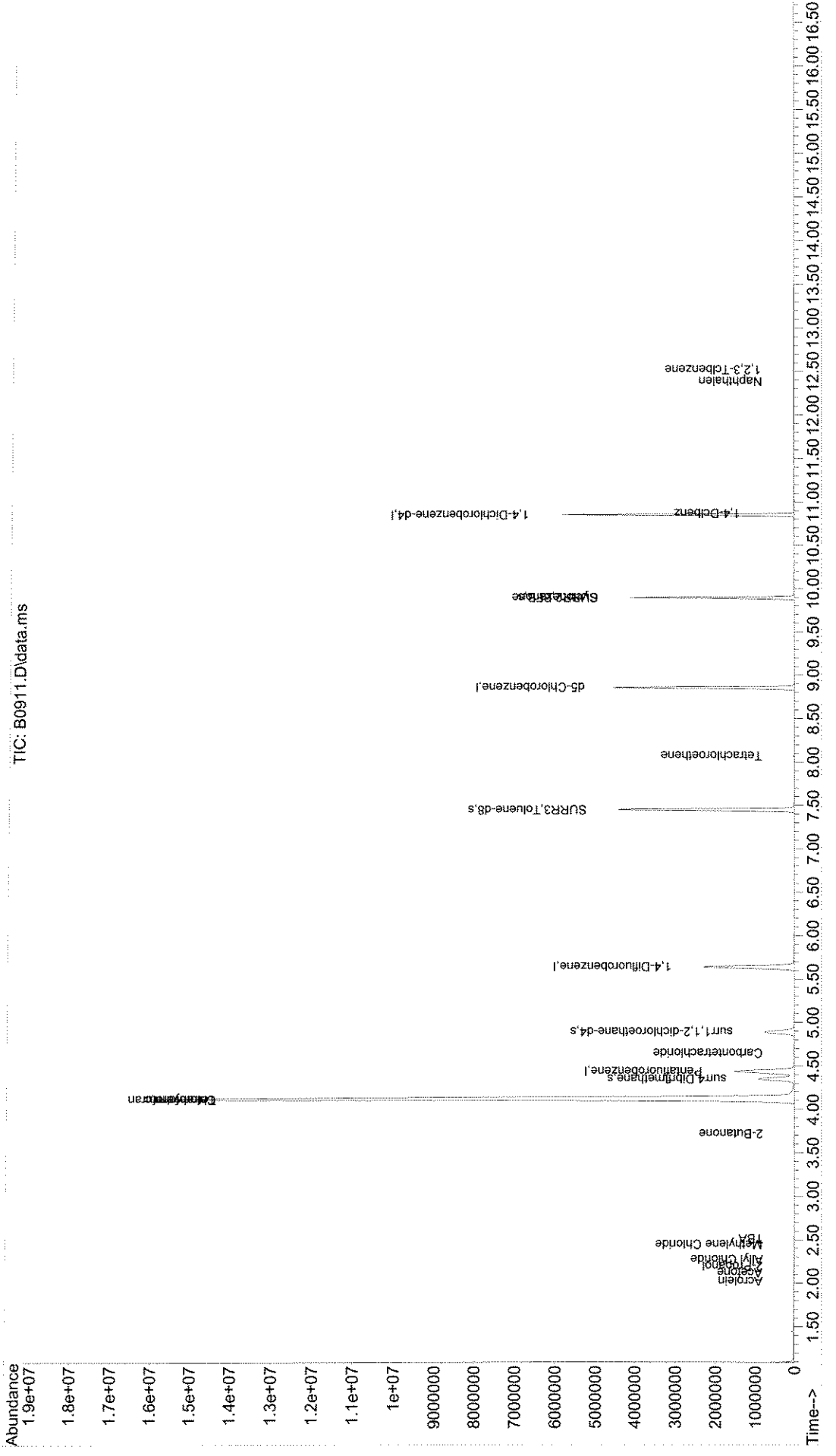
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1360363	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	2200749	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	2027846	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1083431	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4, Dibromomethane	4.348	113	711623	49.29	ug/L	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
49) surr1, 1,2-dichloroetha...	4.891	65	748862	54.14	ug/L	0.00
Spiked Amount	50.000		Recovery	=	108.28%	
65) SURR3, Toluene-d8	7.445	98	2605705	54.39	ug/L	0.00
Spiked Amount	50.000		Recovery	=	108.78%	
70) SURR2, BFB	9.896	95	1052284	53.34	ug/L	0.00
Spiked Amount	50.000		Recovery	=	106.68%	
Target Compounds						
						Qvalue
13) Acrolein	2.026	56	253	0.31	ug/L	61
16) Acetone	2.123	43	10691	6.37	ug/L	86 J
17) 2-Propanol	2.196	45	2823	7.91	ug/L #	61
21) Allyl Chloride	2.275	76	2296	0.45	ug/L #	1
23) Methylene Chloride	2.446	84	3311	0.29	ug/L #	91
24) TBA	2.513	59	1284	2.27	ug/L	79 ZJ JB
35) 2-Butanone	3.720	43	1551	0.55	ug/L #	88
40) Tetrahydrofuran	4.117	42	26248	16.24	ug/L #	1
41) Chloroform	4.117	83	16571861	839.62	ug/L	98 E
47) Carbontetrachloride	4.647	121	1477	0.27	ug/L #	78
72) Tetrachloroethene	8.073	164	4524	0.45	ug/L	92 >J
85) Cyclohexanone	9.896	55	2236	2.43	ug/L #	23
101) 1,4-Dclbenz	10.865	146	9365	0.33	ug/L #	76 J
109) Naphthalen	12.383	128	1255	0.56	ug/L #	94 <LR
110) 1,2,3-Tclbenzene	12.517	180	5048	0.31	ug/L	93 J

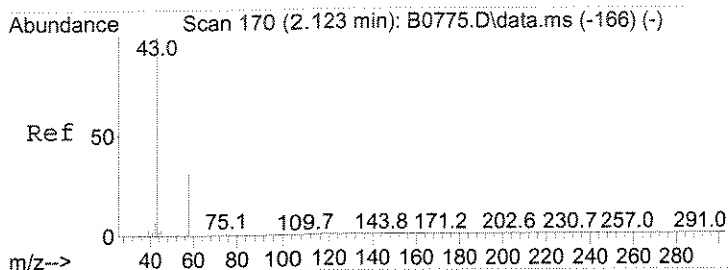
(#) = qualifier out of range (m) = manual integration (+) = signals summed

RPT 1/5
 FN
 7/1/08

Sample : 1113426 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0911.D Vial: 10
 Acq On : 3 Jul 2008 5:26 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

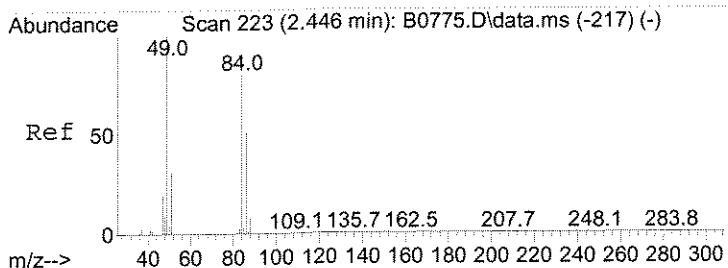
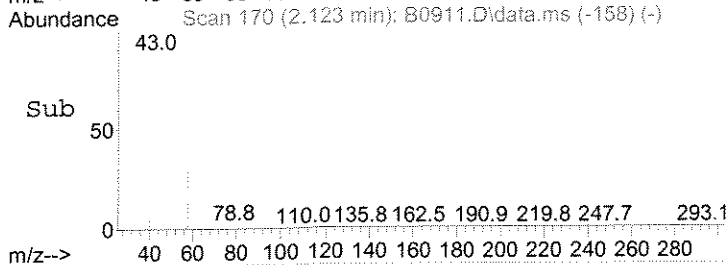
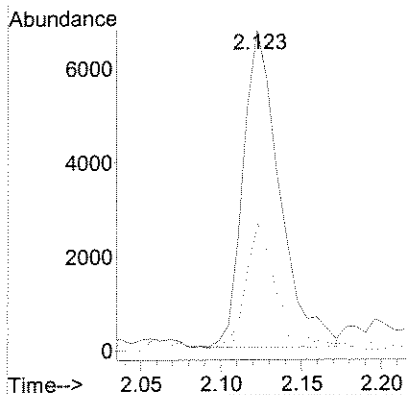
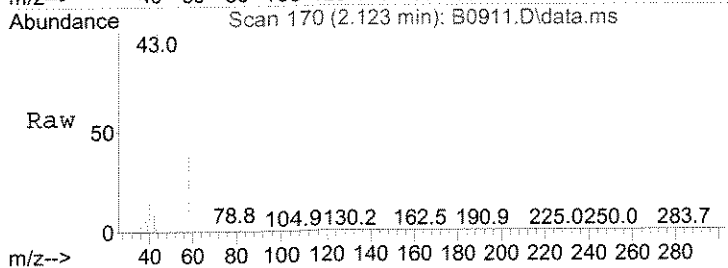
Quant Time: Jul 03 17:40:40 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





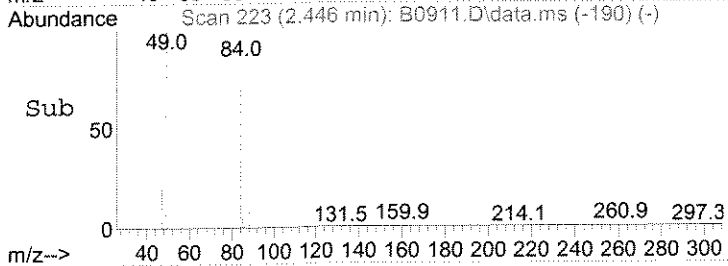
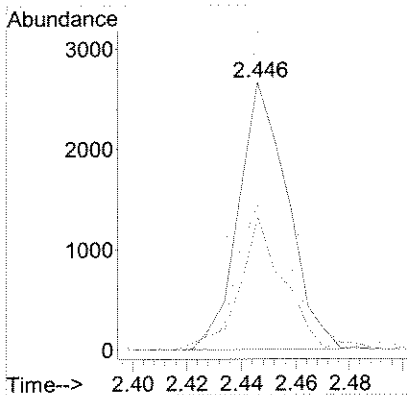
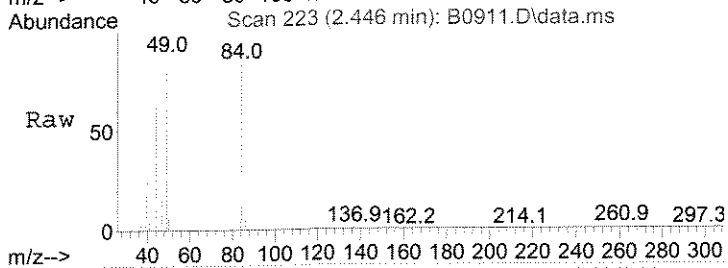
#16
 Acetone
 Concen: 6.37 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0911.D
 Acq: 3 Jul 2008 5:26 pm

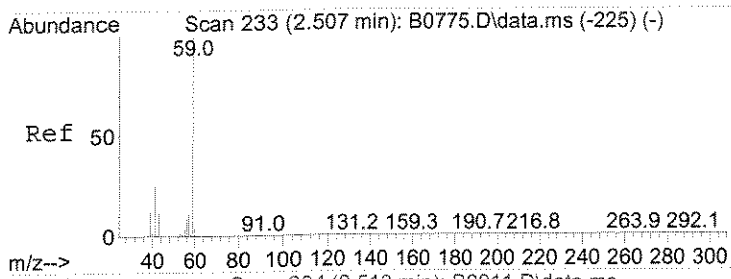
Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.8	0.9	60.9
42	8.6	0.0	37.2



#23
 Methylene Chloride
 Concen: 0.29 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0911.D
 Acq: 3 Jul 2008 5:26 pm

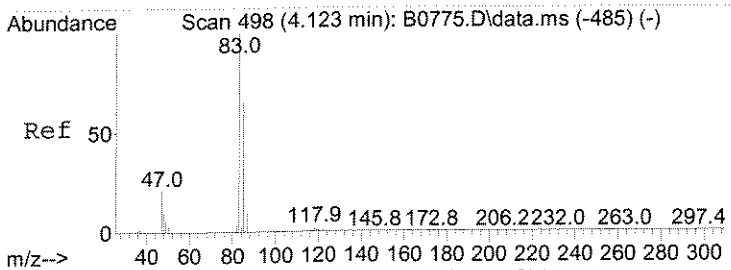
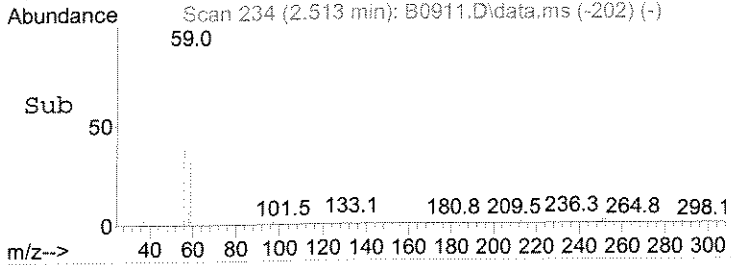
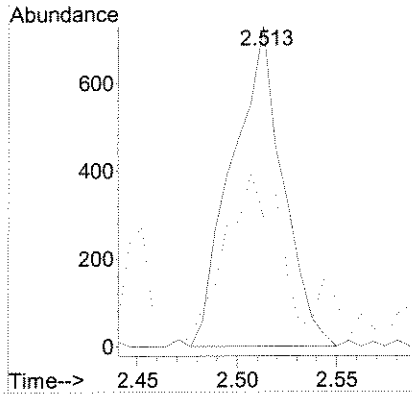
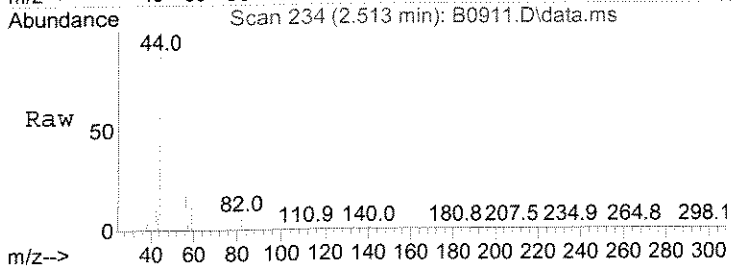
Tgt Ion	Ratio	Lower	Upper
84	100		
86	54.1	50.5	75.7
49	119.5	99.5	149.3
51	49.4	31.1	46.7#





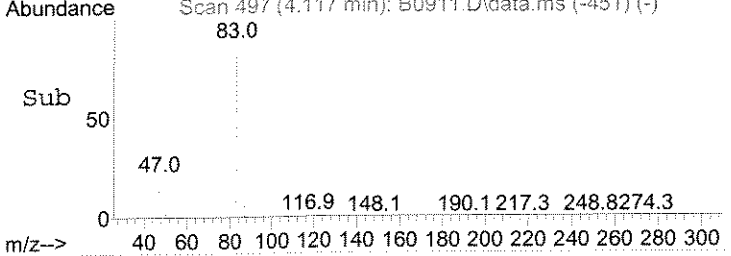
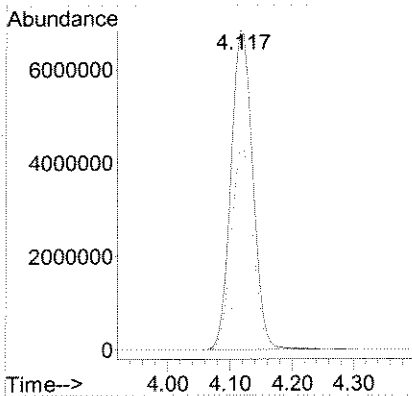
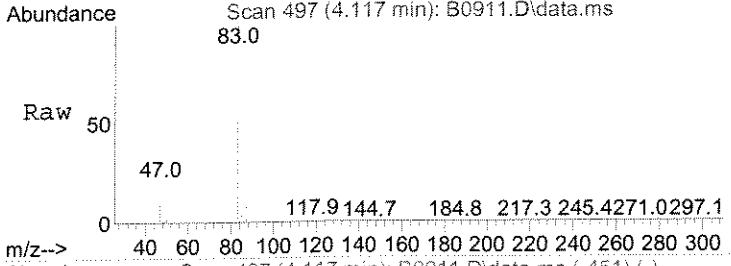
#24
TBA
Concen: 2.27 ug/L
RT: 2.513 min Scan# 234
Delta R.T. 0.006 min
Lab File: B0911.D
Acq: 3 Jul 2008 5:26 pm

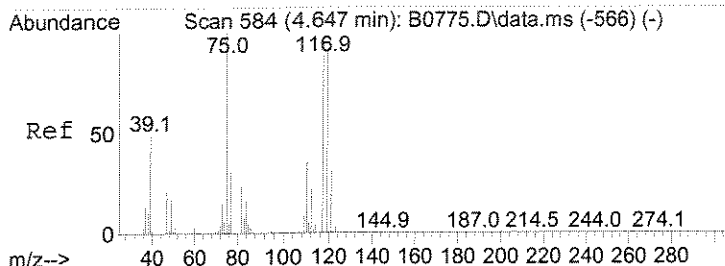
Tgt Ion	Resp	Lower	Upper
59	100		
41	40.2	14.5	43.6



#41
Chloroform
Concen: 839.62 ug/L
RT: 4.117 min Scan# 497
Delta R.T. -0.006 min
Lab File: B0911.D
Acq: 3 Jul 2008 5:26 pm

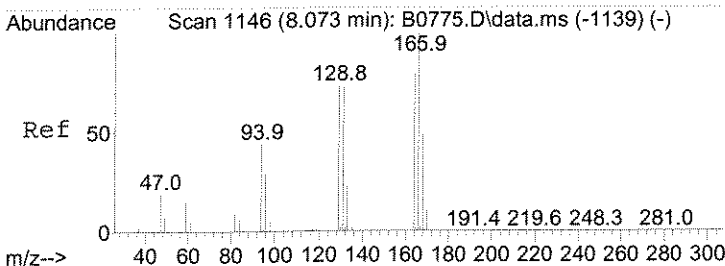
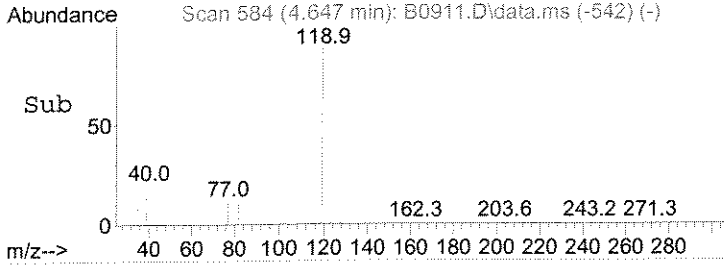
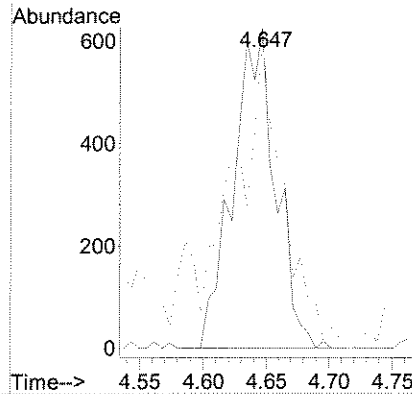
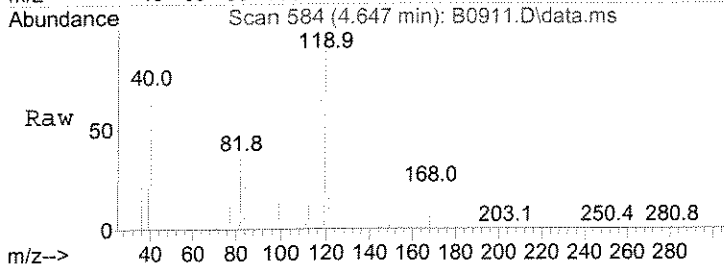
Tgt Ion	Resp	Lower	Upper
83	100		
85	62.7	51.7	77.5
47	20.8	17.1	25.7





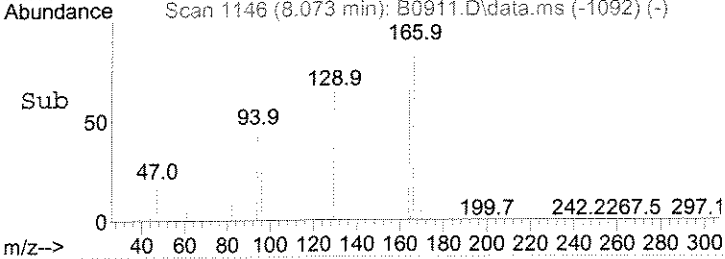
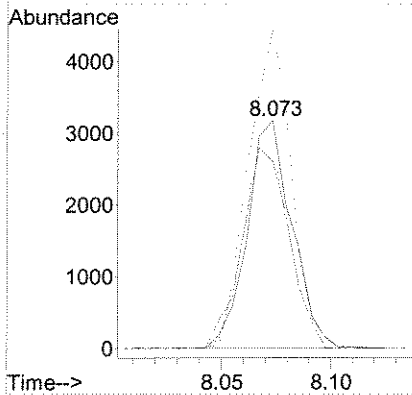
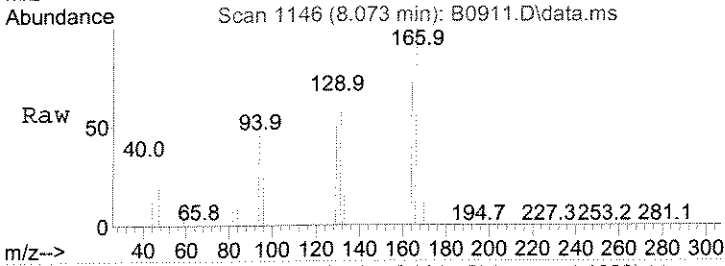
#47
 Carbontetrachloride
 Concen: 0.27 ug/L
 RT: 4.647 min Scan# 584
 Delta R.T. 0.006 min
 Lab File: B0911.D
 Acq: 3 Jul 2008 5:26 pm

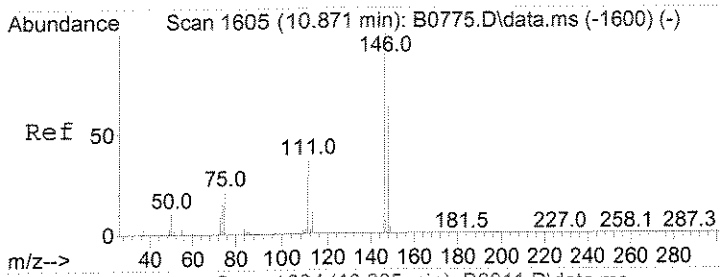
Tgt Ion:121 Resp: 1477
 Ion Ratio Lower Upper
 121 100
 82 96.5 62.0 93.0#



#72
 Tetrachloroethene
 Concen: 0.45 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0911.D
 Acq: 3 Jul 2008 5:26 pm

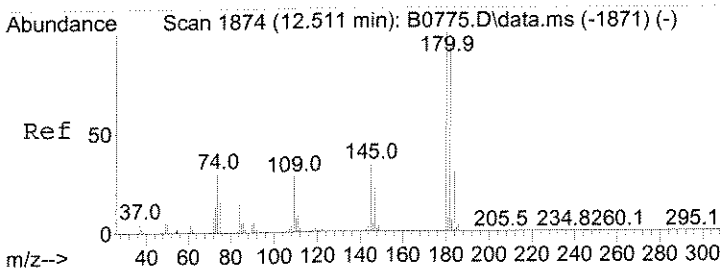
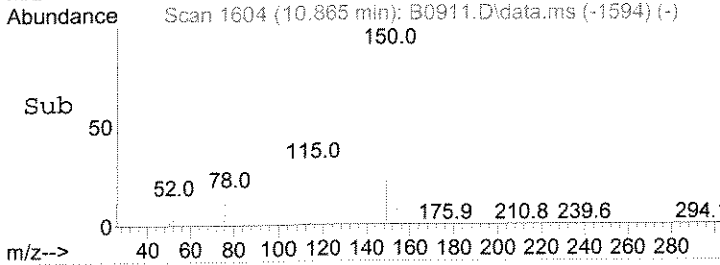
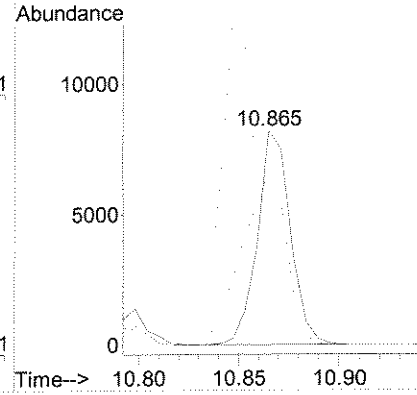
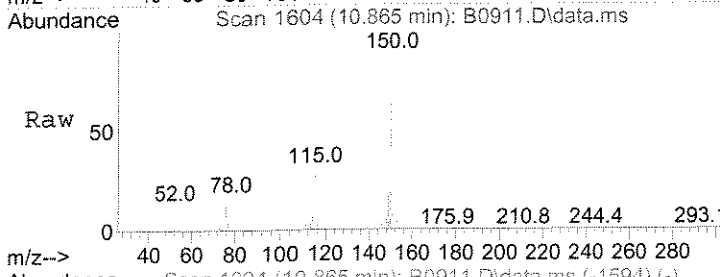
Tgt Ion:164 Resp: 4524
 Ion Ratio Lower Upper
 164 100
 166 140.2 101.5 152.3
 129 90.5 73.8 110.6
 131 82.0 72.9 109.3





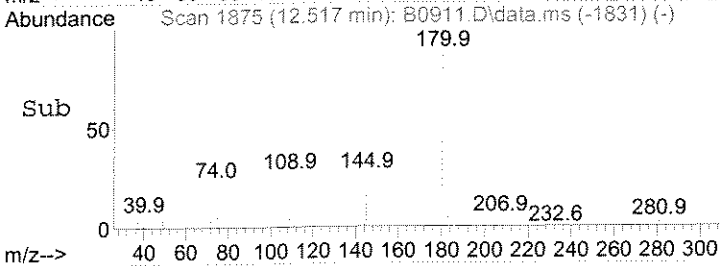
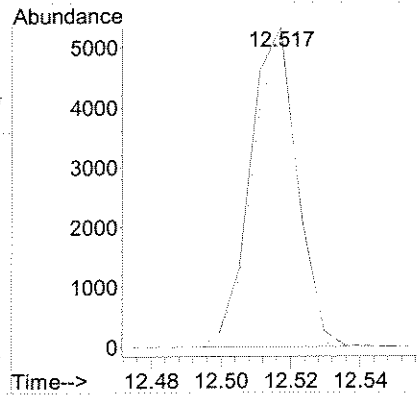
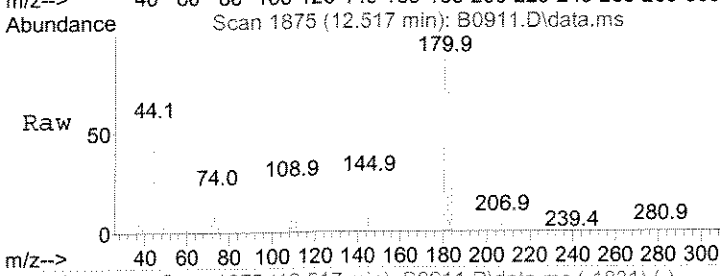
#101
 1,4-DcIbenz
 Concen: 0.33 ug/L
 RT: 10.865 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: B0911.D
 Acq: 3 Jul 2008 5:26 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	81.0	51.2	76.8#
111	54.9	30.0	45.0#



#110
 1,2,3-Tclbenzene
 Concen: 0.31 ug/L
 RT: 12.517 min Scan# 1875
 Delta R.T. -0.000 min
 Lab File: B0911.D
 Acq: 3 Jul 2008 5:26 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.3	74.4	111.6
145	28.4	27.2	40.8



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-67B

Date Sampled : 06/27/08 07:00 Order #: 1113426 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/09/08		
ANALYTICAL DILUTION:	5.00		
ACETONE	20	9.3 JD	UG/L
BENZENE	1.0	5.0 U	UG/L
BROMOBENZENE	2.0	10 U	UG/L
BROMOCHLOROMETHANE	2.0	10 U	UG/L
BROMODICHLOROMETHANE	1.0	5.0 U	UG/L
BROMOFORM	1.0	5.0 U	UG/L
BROMOMETHANE	2.0	10 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
TERT-BUTYL ALCOHOL	100	11 JDB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	5.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	5.0 U	UG/L
TERT-BUTYLBENZENE	2.0	10 U	UG/L
SEC-BUTYLBENZENE	2.0	10 U	UG/L
N-BUTYLBENZENE	5.0	25 U	UG/L
CARBON TETRACHLORIDE	1.0	5.0 U	UG/L
CHLOROBENZENE	1.0	5.0 U	UG/L
CHLOROETHANE	2.0	10 U	UG/L
CHLOROFORM	1.0	790 D	UG/L
CHLOROMETHANE	2.0	10 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	25 U	UG/L
2-CHLOROTOLUENE	5.0	25 U	UG/L
4-CHLOROTOLUENE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	1.0	5.0 U	UG/L
1,2-DIBROMOETHANE	1.0	5.0 U	UG/L
DIBROMOMETHANE	1.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	10 U	UG/L
1,4-DICHLOROBENZENE	2.0	10 U	UG/L
1,3-DICHLOROBENZENE	2.0	10 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	5.0 U	UG/L
1,1-DICHLOROETHANE	1.0	5.0 U	UG/L
1,2-DICHLOROETHANE	1.0	5.0 U	UG/L
1,1-DICHLOROETHENE	1.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	5.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	10 U	UG/L
1,2-DICHLOROPROPANE	1.0	5.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	10 U	UG/L
1,1-DICHLOROPROPENE	2.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	5.0 U	UG/L
ETHYLBENZENE	1.0	5.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
DI-ISOPROPYL ETHER	1.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-67B

Date Sampled : 06/27/08 07:00 Order #: 1113426 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/09/08		
ANALYTICAL DILUTION:	5.00		
ISOPROPYLBENZENE	2.0	10 U	UG/L
P-ISOPROPYLTOLUENE	2.0	10 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	5.0 U	UG/L
METHYLENE CHLORIDE	2.0	1.2 JD	UG/L
NAPHTHALENE	2.0	10 U	UG/L
4-METHYL-2-PENTANONE	10	50 U	UG/L
N-PROPYLBENZENE	2.0	10 U	UG/L
STYRENE	1.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	5.0 U	UG/L
TETRACHLOROETHENE	1.0	5.0 U	UG/L
TOLUENE	1.0	5.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	10 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	5.0 U	UG/L
TRICHLOROETHENE	1.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	10 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	10 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	10 U	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
M+P-XYLENE	2.0	10 U	UG/L
O-XYLENE	1.0	5.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	108	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	98	%

Sample : 1113426 5.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070908\B1013.D Vial: 14
 Acq On : 9 Jul 2008 8:43 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

DL

Quant Time: Jul 09 20:58:00 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1352459	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2233690	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2105965	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1115504	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	717107	48.82	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	97.64%		
49) surr1,1,2-dichloroetha...	4.891	65	744022	52.99	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.98%		
65) SURR3,Toluene-d8	7.452	98	2647601	54.45	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.90%		
70) SURR2,BFB	9.896	95	1086145	54.24	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.48%		
Target Compounds							
16) Acetone	2.129	43	3106	1.86	ug/L	98	JD
17) 2-Propanol	2.203	45	272	0.77	ug/L #	60	
21) Allyl Chloride	2.276	76	4046	0.80	ug/L #	1	
23) Methylene Chloride	2.453	84	2574	0.23	ug/L #	81	JD
24) TBA	2.507	59	1243 747	2.21 1.33	ug/L #	63	JD SBD
40) Tetrahydrofuran	4.117	42	8572	5.33	ug/L #	1	FW
41) Chloroform	4.117	83	3118971	158.95	ug/L	99	D
85) Cyclohexanone	9.853	55	668	0.70	ug/L #	63	NT
109) Naphthalen	12.383	128	2718	0.60	ug/L #	95	CLR

(#) = qualifier out of range (m) = manual integration (+) = signals summed

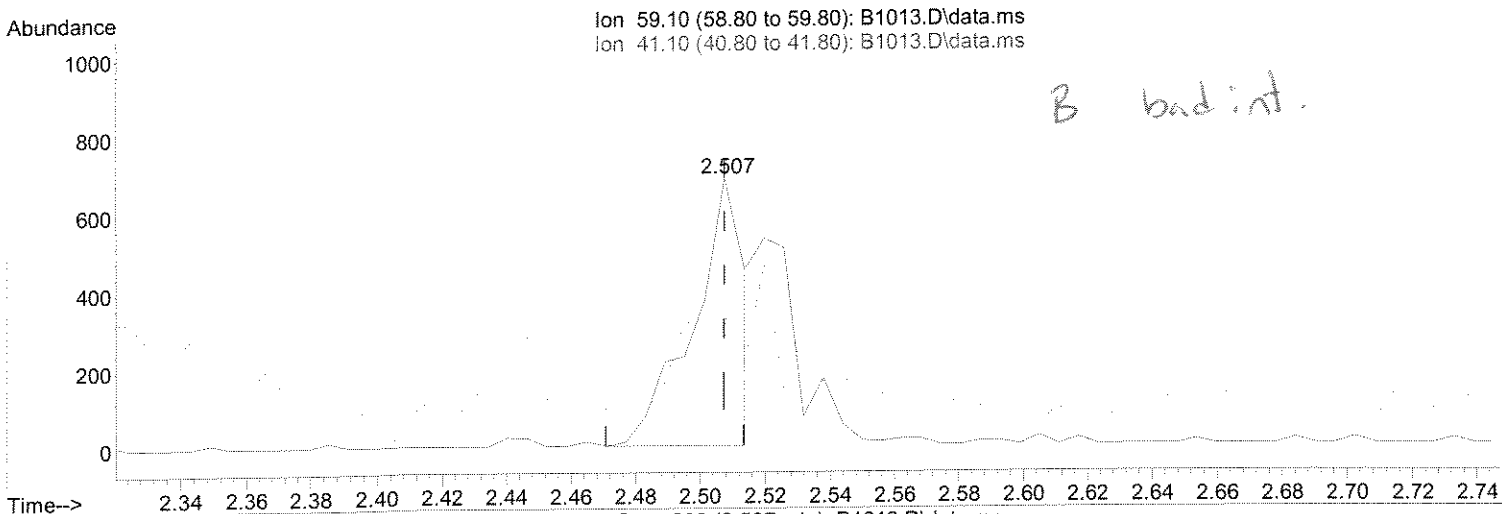
FW
7/16/08

Quantitation Report (Qedit)

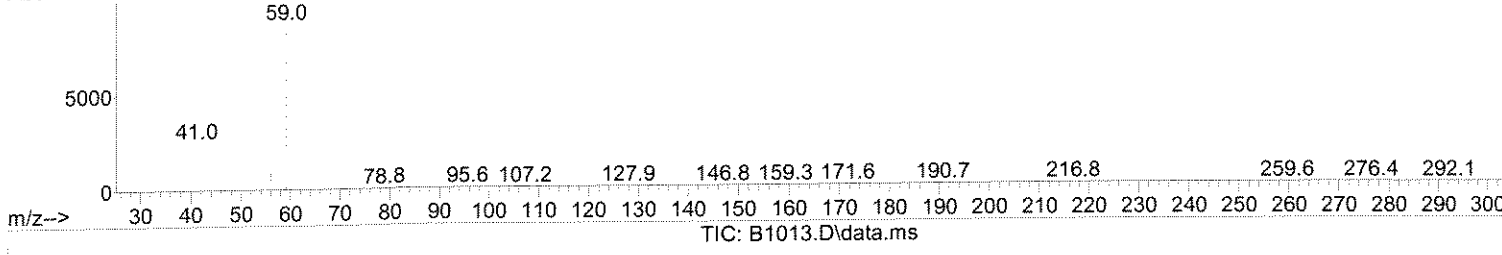
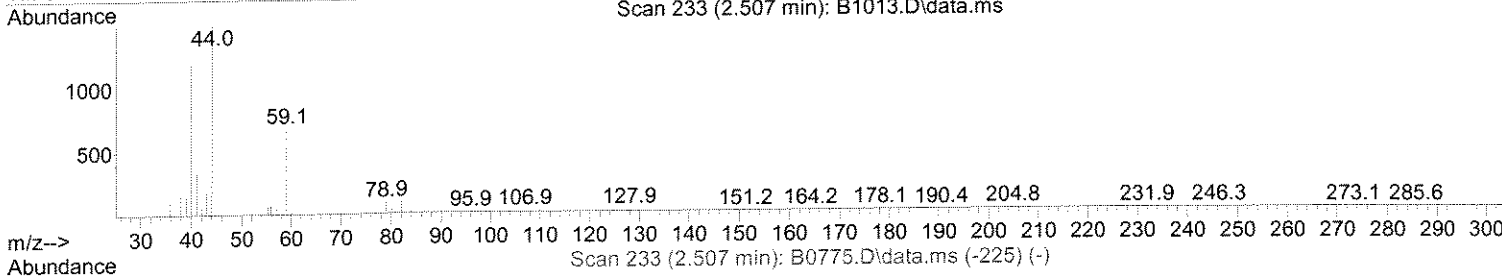
Sample : 1113426 5.0
 Data File : J:\ACQUDATA\msvoa10\data\070908\B1013.D Vial: 14
 Acq On : 9 Jul 2008 8:43 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 09 20:58:00 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FW 7/16/08



B bad int.



(24) TBA

2.507min (-0.000) 1.33 ug/L

response 747

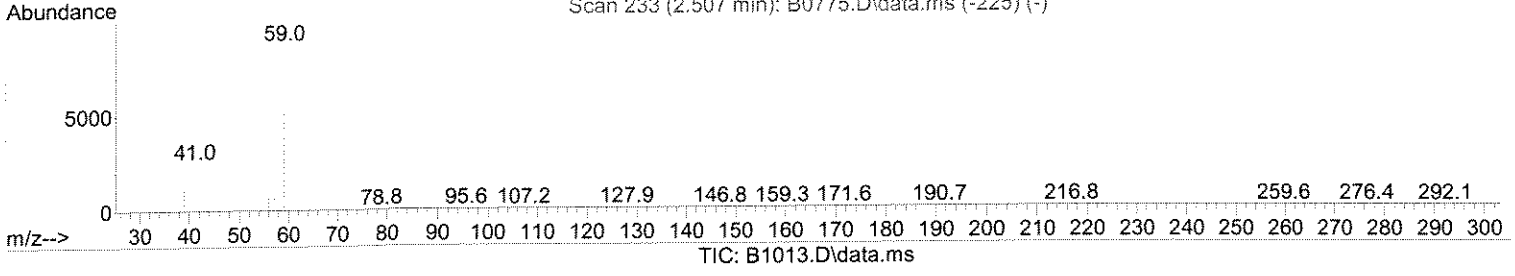
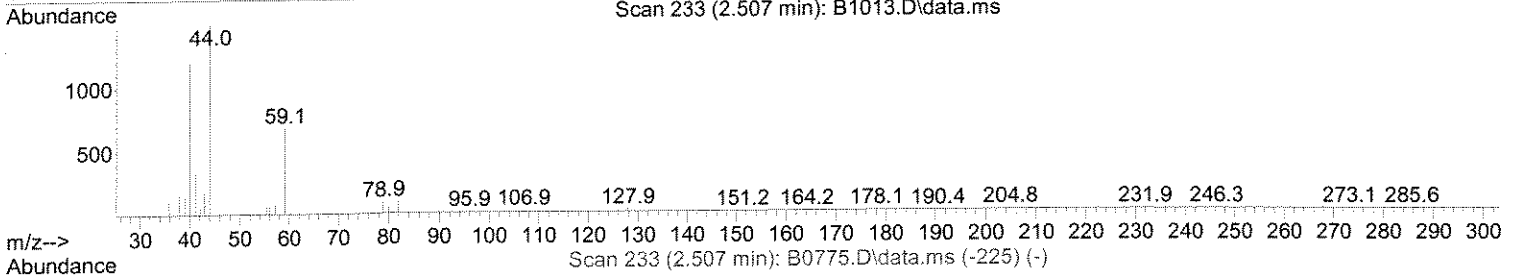
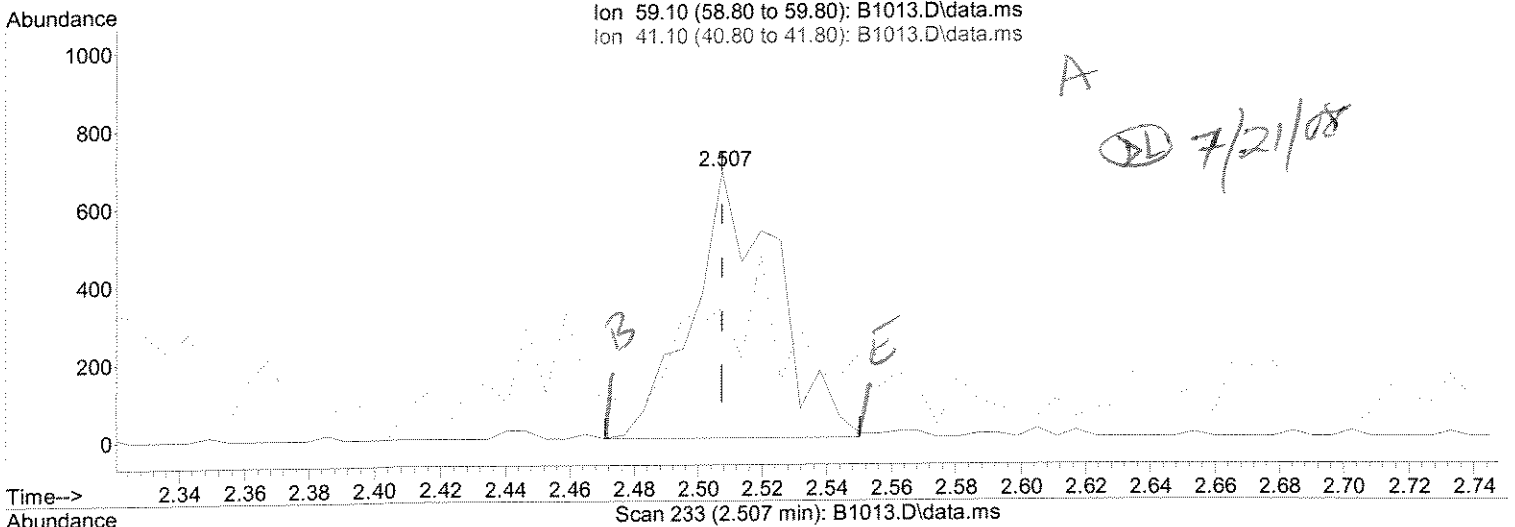
Ion	Exp%	Act%
59.10	100	100
41.10	29.10	48.98#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 1113426 5.0
 Data File : J:\ACQUDATA\msvoa10\data\070908\B1013.D Vial: 14
 Acq On : 9 Jul 2008 8:43 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 09 20:58:00 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FW 7/16/08

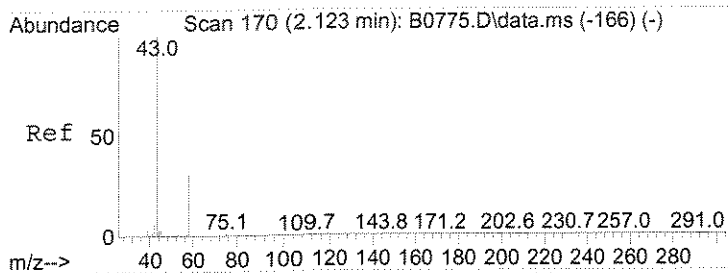


(24) TBA

2.507min (-0.000) 2.21 ug/L m

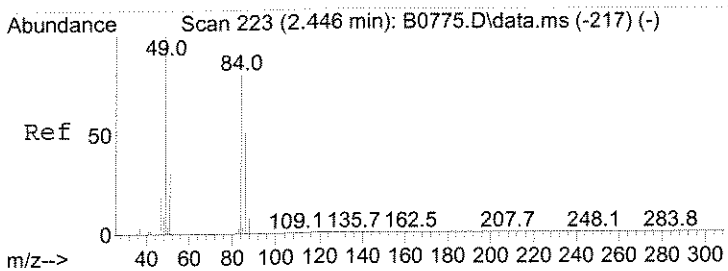
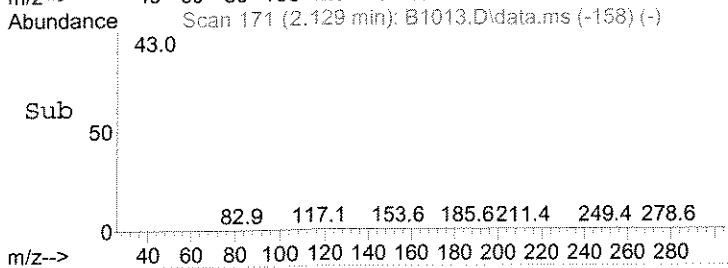
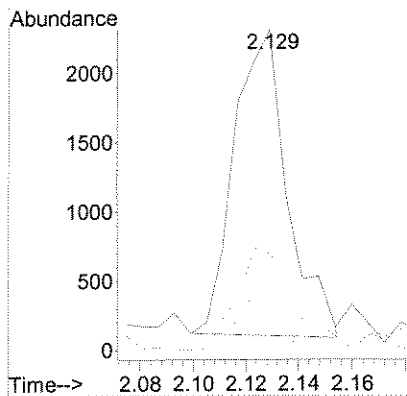
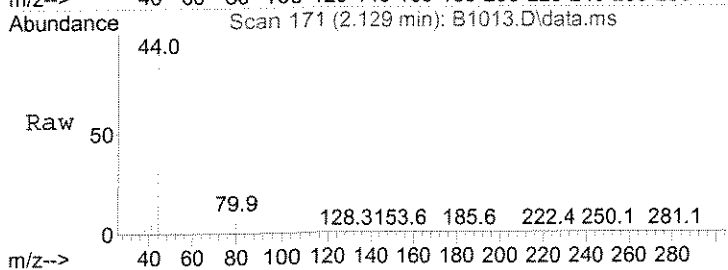
response 1243

Ion	Exp%	Act%
59.10	100	100
41.10	29.10	48.98#
0.00	0.00	0.00
0.00	0.00	0.00



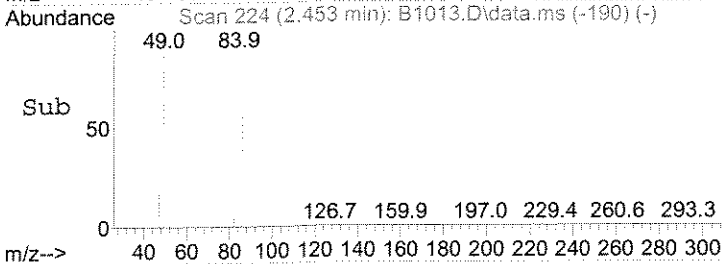
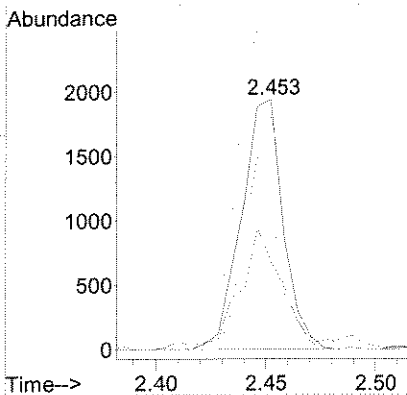
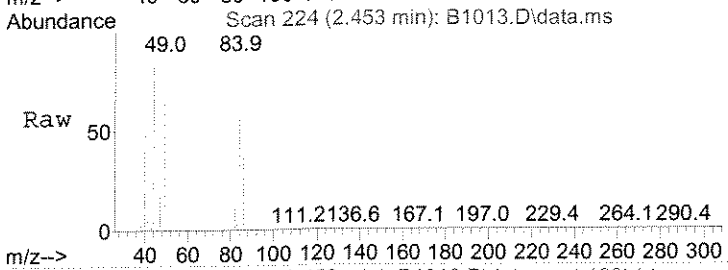
#16
 Acetone
 Concen: 1.86 ug/L
 RT: 2.129 min Scan# 171
 Delta R.T. 0.006 min
 Lab File: B1013.D
 Acq: 9 Jul 2008 8:43 pm

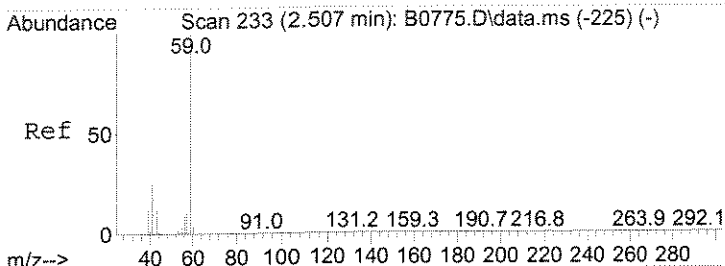
Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.1	0.9	60.9
42	8.2	0.0	37.2



#23
 Methylene Chloride
 Concen: 0.23 ug/L
 RT: 2.453 min Scan# 224
 Delta R.T. 0.006 min
 Lab File: B1013.D
 Acq: 9 Jul 2008 8:43 pm

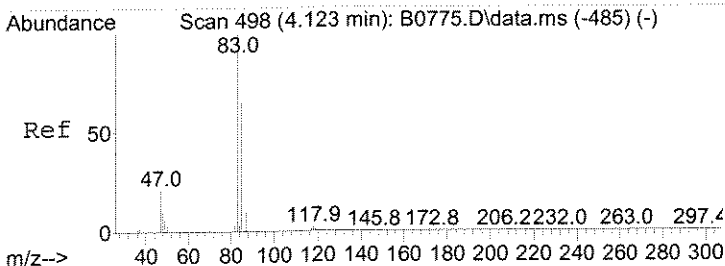
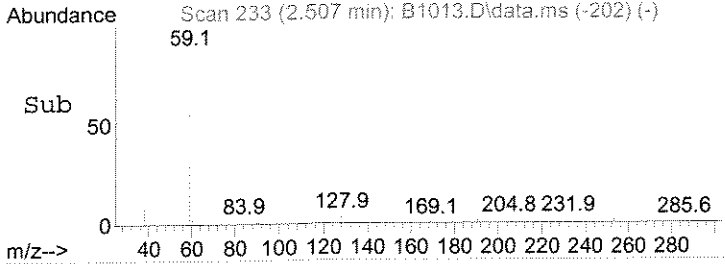
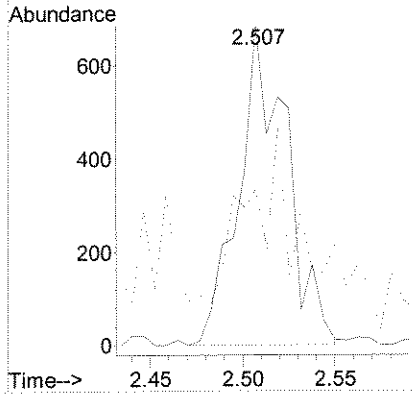
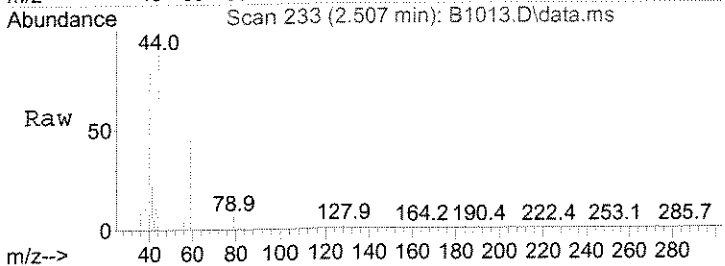
Tgt Ion	Ratio	Lower	Upper
84	100		
86	56.6	50.5	75.7
49	93.2	99.5	149.3#
51	34.9	31.1	46.7





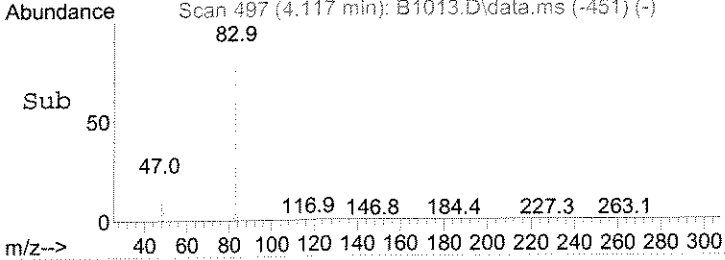
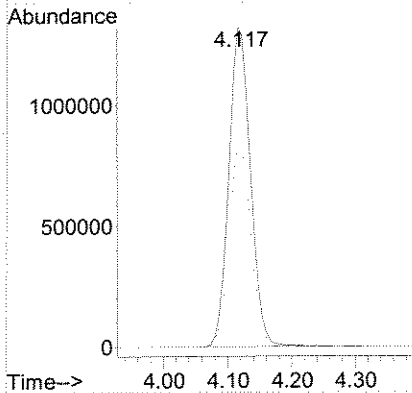
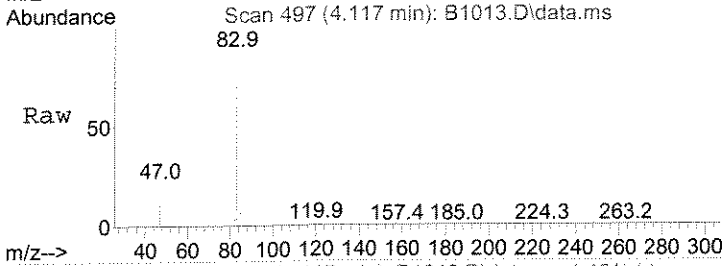
#24
 TBA
 Concen: 2.21 ug/L m
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B1013.D
 Acq: 9 Jul 2008 8:43 pm

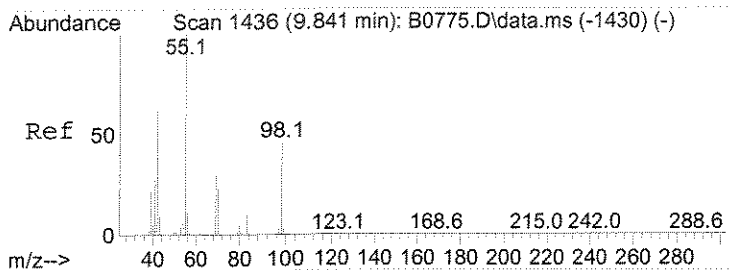
Tgt Ion	Resp	Lower	Upper
59	100		
41	49.0	14.5	43.6#



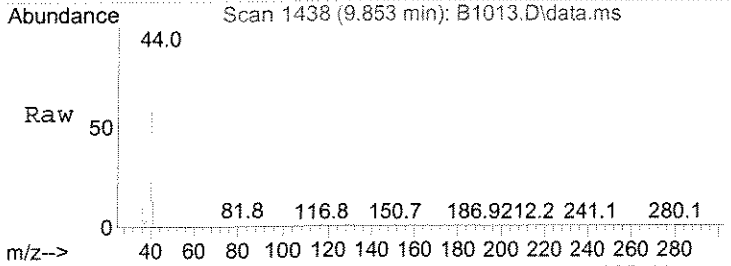
#41
 Chloroform
 Concen: 158.95 ug/L
 RT: 4.117 min Scan# 497
 Delta R.T. -0.006 min
 Lab File: B1013.D
 Acq: 9 Jul 2008 8:43 pm

Tgt Ion	Resp	Lower	Upper
83	100		
85	63.9	51.7	77.5
47	22.3	17.1	25.7

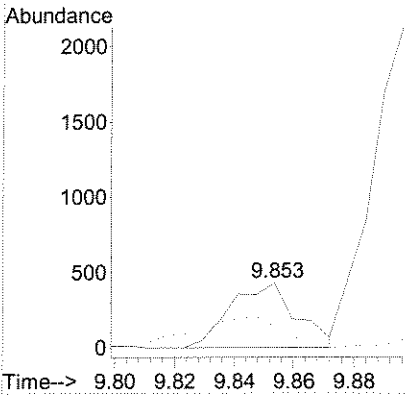
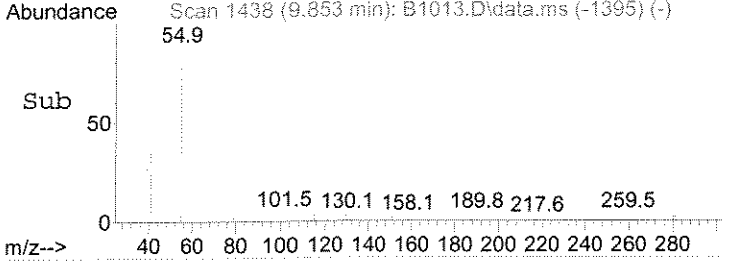




#85
 Cyclohexanone
 Concen: 0.70 ug/L
 RT: 9.853 min Scan# 1438
 Delta R.T. 0.012 min
 Lab File: B1013.D
 Acq: 9 Jul 2008 8:43 pm



Tgt Ion: 55 Resp: 668
 Ion Ratio Lower Upper
 55 100
 42 33.0 49.3 73.9#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-6AB

Date Sampled : 06/27/08 09:50 Order #: 1113427 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	2.6 J	UG/L
BENZENE	1.0	0.32 J	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	3.4 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROENZENE	1.0	1.2	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	2.2	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROENZENE	2.0	1.2 J	UG/L
1,3-DICHLOROENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	2.8	UG/L
1,2-DICHLOROETHANE	1.0	1.5	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-6AB

Date Sampled : 06/27/08 09:50 Order #: 1113427 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(70 - 130 %)	108	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Sample : 1113427 1.0
 Data File : J:\ACQUADATA\MSVOA10\DATA\070308\B0912.D Vial: 11
 Acq On : 3 Jul 2008 5:56 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 18:10:36 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

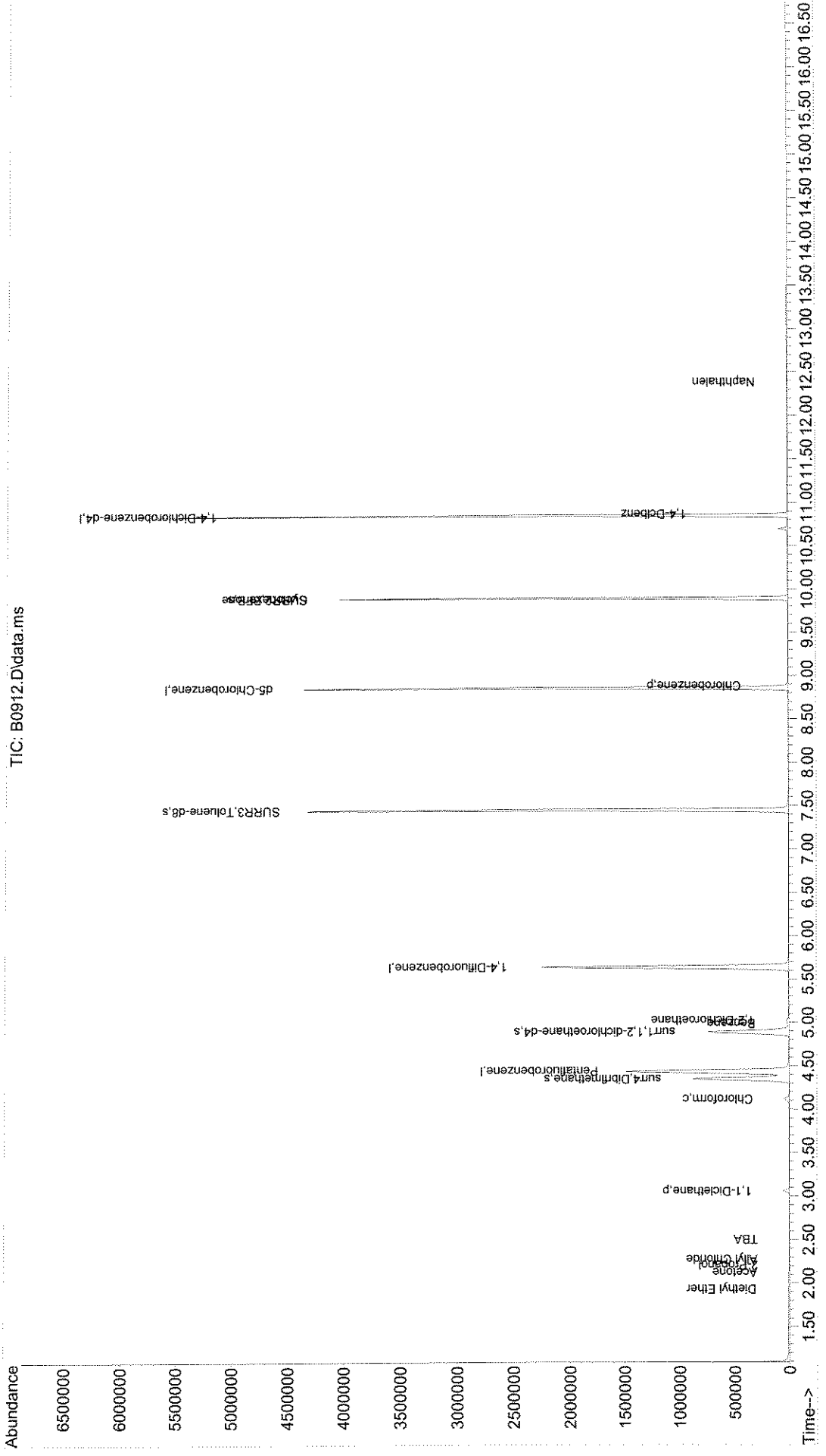
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.440	168	1314334	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2154085	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1990521	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1069834	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	689886	48.66	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	97.32%		
49) surr1,1,2-dichloroetha...	4.891	65	742227	54.82	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.64%		
65) SURR3,Toluene-d8	7.451	98	2574703	54.91	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.82%		
70) SURR2,BFB	9.896	95	1039925	53.85	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.70%		
Target Compounds							
10) Diethyl Ether	1.934	59	2120	0.36	ug/L		64 NT
16) Acetone	2.123	43	4158	2.56	ug/L		89 J
17) 2-Propanol	2.208	45	232	0.67	ug/L #		59
21) Allyl Chloride	2.276	76	2255	0.46	ug/L #		1
24) TBA	2.507	59	1877	3.43	ug/L #		53 JB
28) 1,1-Dicethane	3.056	63	51401	2.75	ug/L		97
41) Chloroform	4.117	83	42908	2.25	ug/L		91
50) Benzene	4.988	78	13906	0.32	ug/L #		84 J
51) 1,2-Dichloroethane	5.025	62	21829	1.46	ug/L #		89
77) Chlorobenzene	8.884	112	39673	1.20	ug/L		97
85) Cyclohexanone	9.896	55	2440	2.70	ug/L #		23
101) 1,4-Dclbenz	10.865	146	33654	1.21	ug/L		94 J
109) Naphthalen	12.383	128	926	0.56	ug/L #		86 CLR

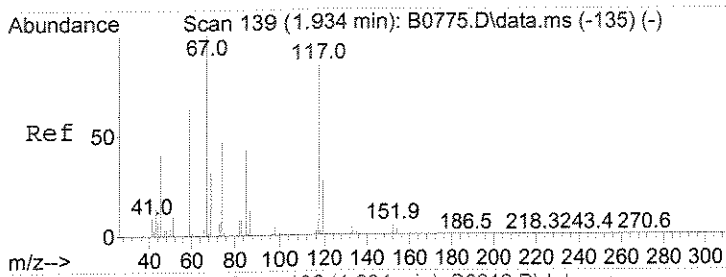
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FN
7/11/08

Sample : 1113427 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0912.D Vial: 11
 Acq On : 3 Jul 2008 5:56 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

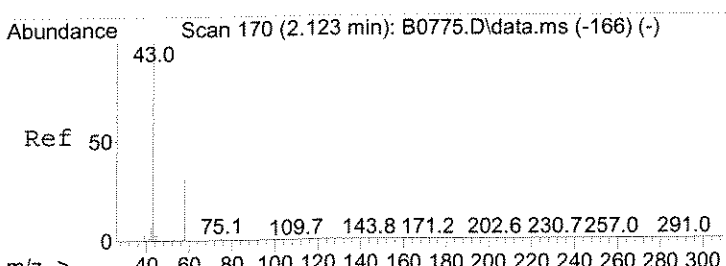
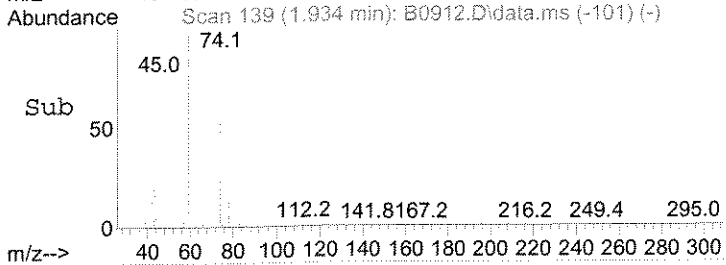
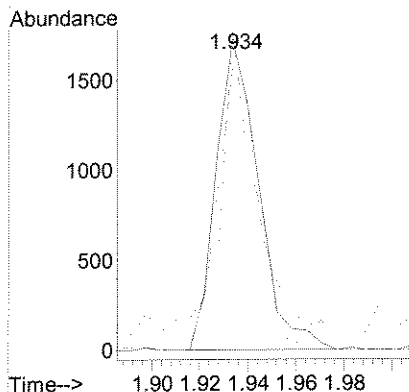
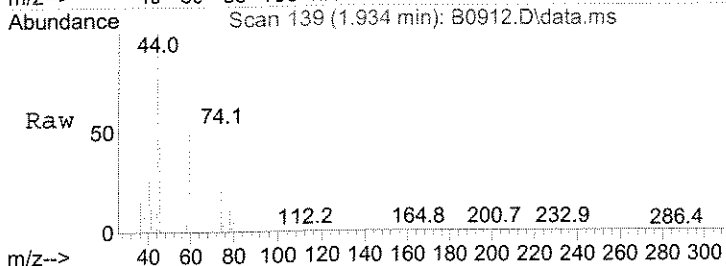
Quant Time: Jul 03 18:10:36 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





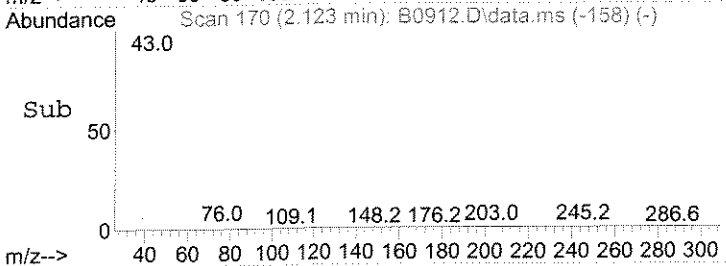
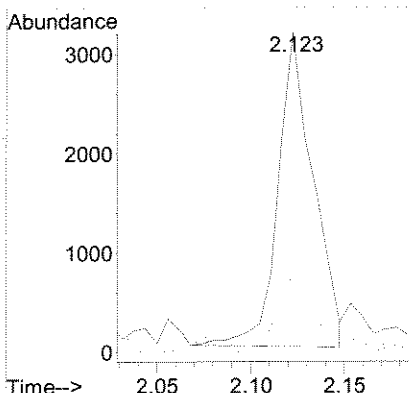
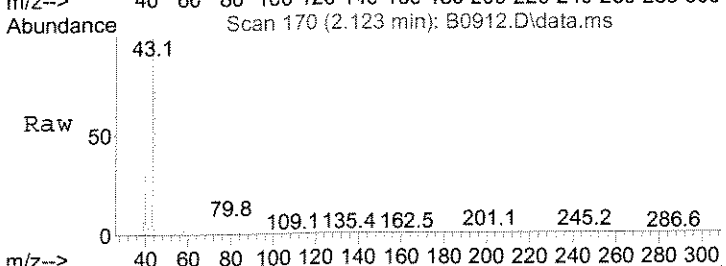
#10
 Diethyl Ether
 Concen: 0.36 ug/L
 RT: 1.934 min Scan# 139
 Delta R.T. -0.000 min
 Lab File: B0912.D
 Acq: 3 Jul 2008 5:56 pm

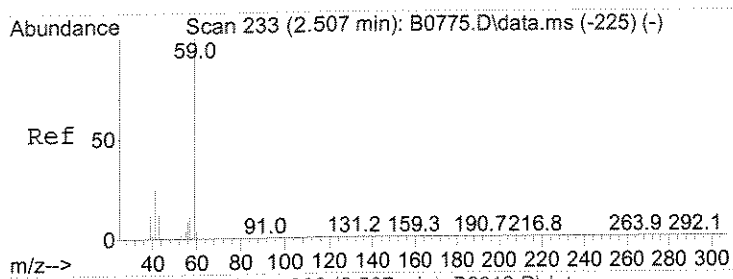
Tgt Ion	Resp	Lower	Upper
59	100		
45	91.0	31.6	94.7
74	103.1	36.7	110.1



#16
 Acetone
 Concen: 2.56 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0912.D
 Acq: 3 Jul 2008 5:56 pm

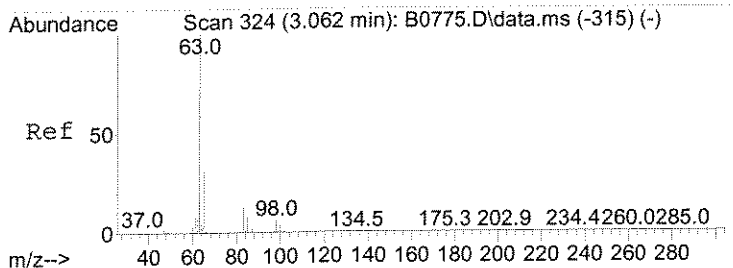
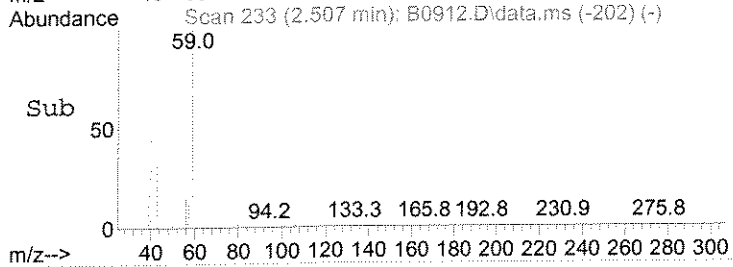
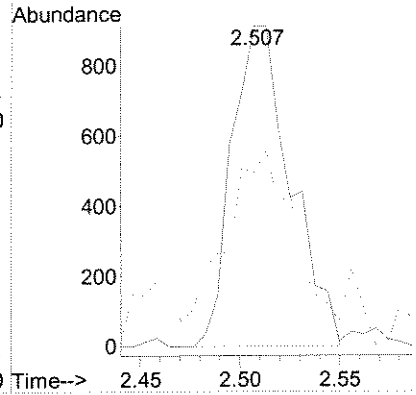
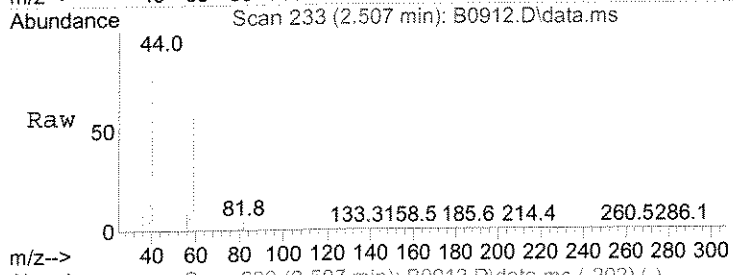
Tgt Ion	Resp	Lower	Upper
43	100		
58	24.3	0.9	60.9
42	9.0	0.0	37.2





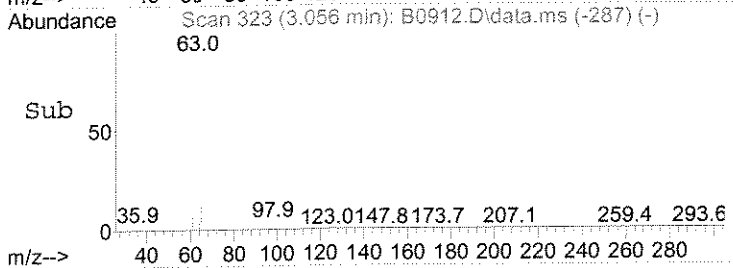
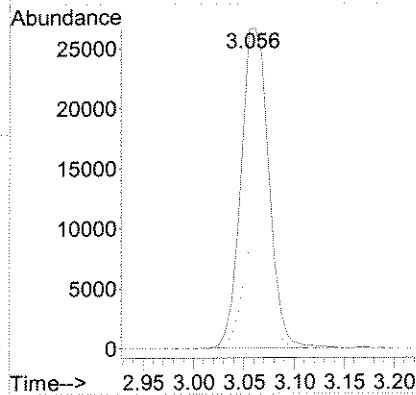
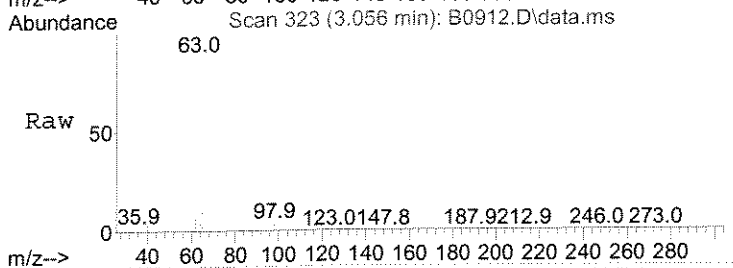
#24
 TBA
 Concen: 3.43 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0912.D
 Acq: 3 Jul 2008 5:56 pm

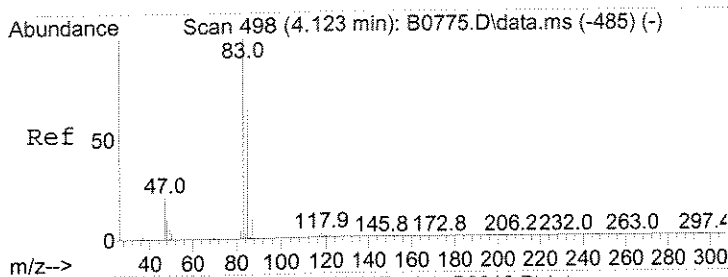
Tgt Ion	Resp	Lower	Upper
59	1877		
41	54.1	14.5	43.6#



#28
 1,1-Diclcethane
 Concen: 2.75 ug/L
 RT: 3.056 min Scan# 323
 Delta R.T. -0.006 min
 Lab File: B0912.D
 Acq: 3 Jul 2008 5:56 pm

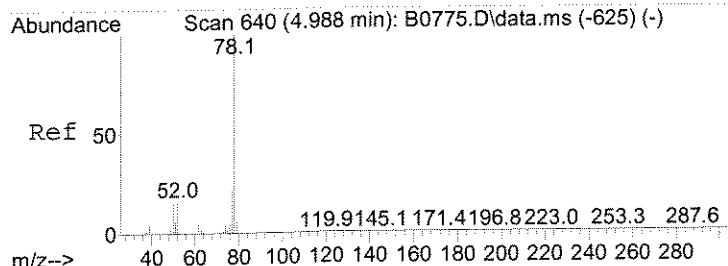
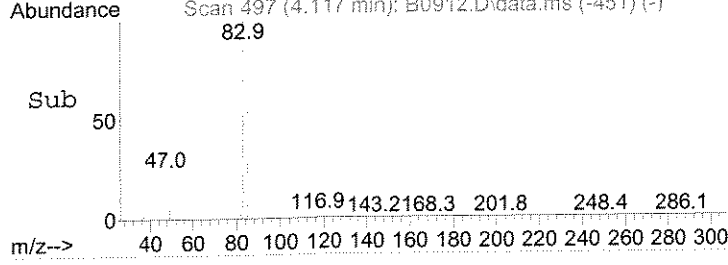
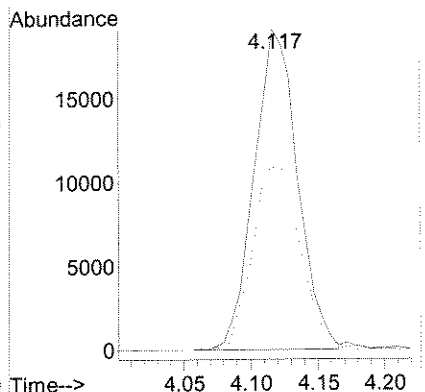
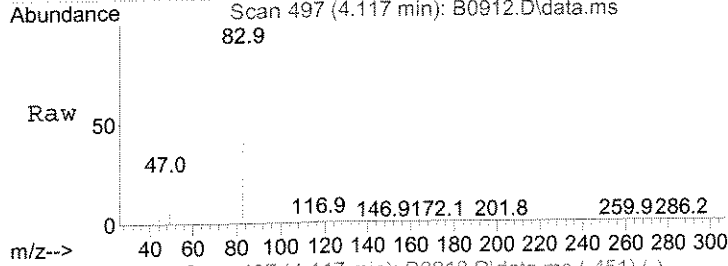
Tgt Ion	Resp	Lower	Upper
63	51401		
65	32.4	24.9	37.3
83	14.5	10.5	15.7





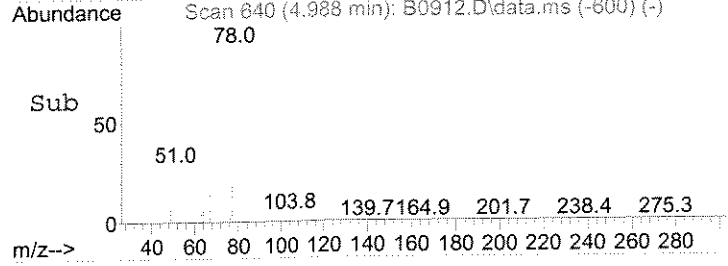
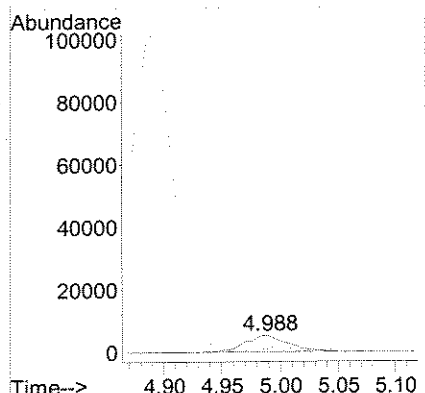
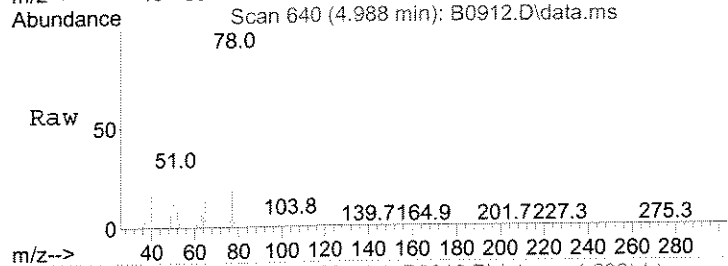
#41
 Chloroform
 Concen: 2.25 ug/L
 RT: 4.117 min Scan# 497
 Delta R.T. -0.006 min
 Lab File: B0912.D
 Acq: 3 Jul 2008 5:56 pm

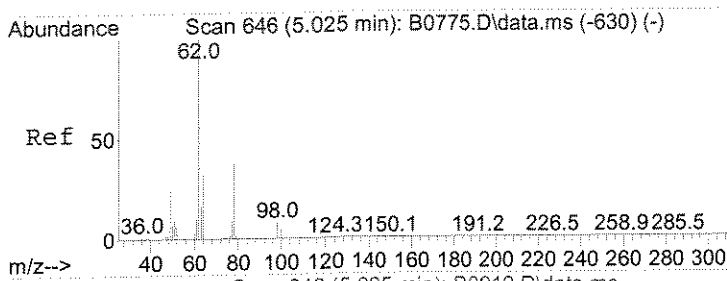
Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.6	51.7	77.5
47	23.8	17.1	25.7



#50
 Benzene
 Concen: 0.32 ug/L
 RT: 4.988 min Scan# 640
 Delta R.T. -0.000 min
 Lab File: B0912.D
 Acq: 3 Jul 2008 5:56 pm

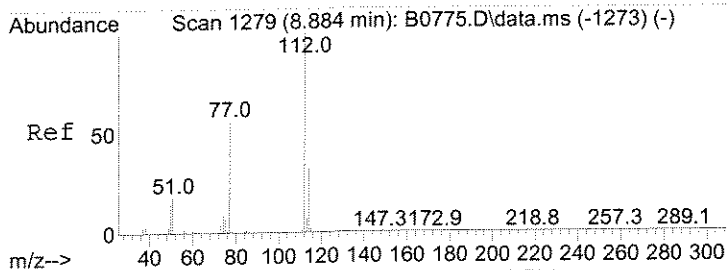
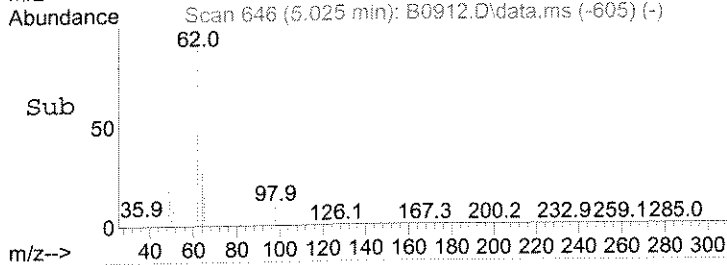
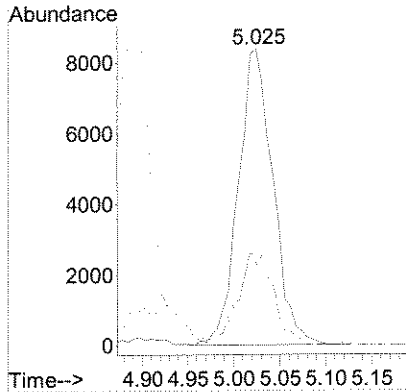
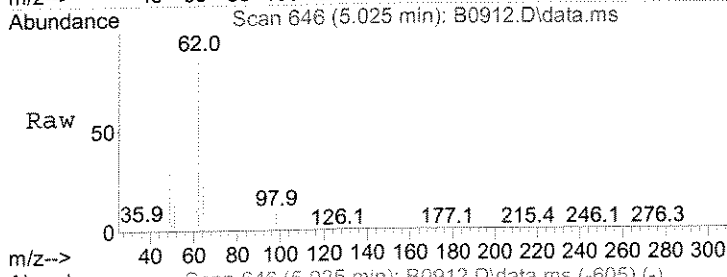
Tgt Ion	Ratio	Lower	Upper
78	100		
51	28.0	13.4	20.2#
52	17.9	12.6	18.8





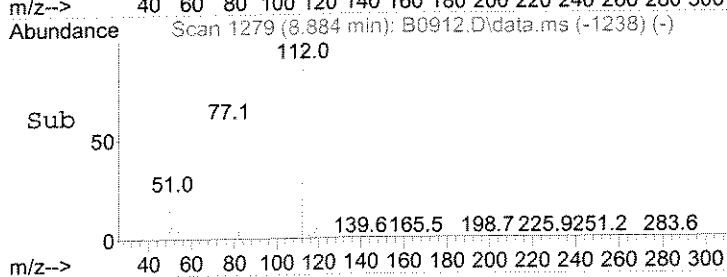
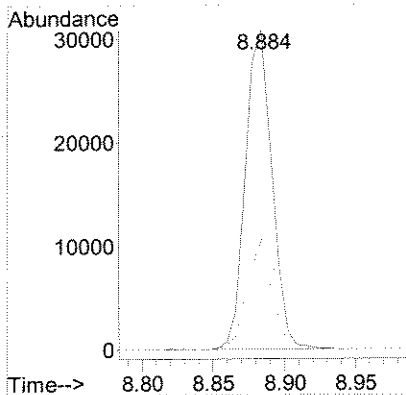
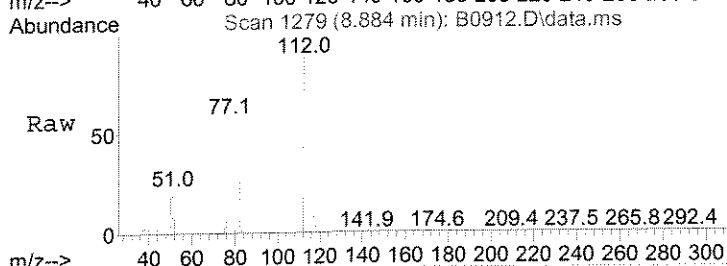
#51
 1,2-Dichloroethane
 Concen: 1.46 ug/L
 RT: 5.025 min Scan# 646
 Delta R.T. -0.000 min
 Lab File: B0912.D
 Acq: 3 Jul 2008 5:56 pm

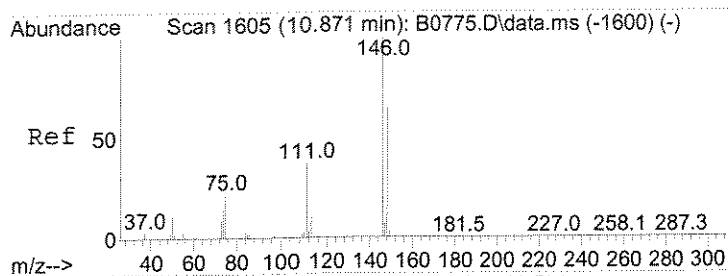
Tgt Ion	Ratio	Lower	Upper
62	100		
64	27.1	26.5	39.7
49	30.8	20.2	30.4#



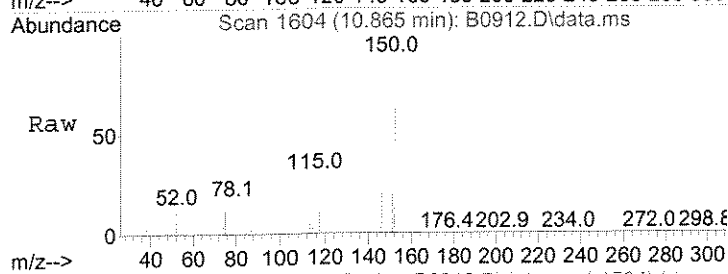
#77
 Chlorobenzene
 Concen: 1.20 ug/L
 RT: 8.884 min Scan# 1279
 Delta R.T. -0.000 min
 Lab File: B0912.D
 Acq: 3 Jul 2008 5:56 pm

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.8	25.8	38.6
77	57.8	45.0	67.6

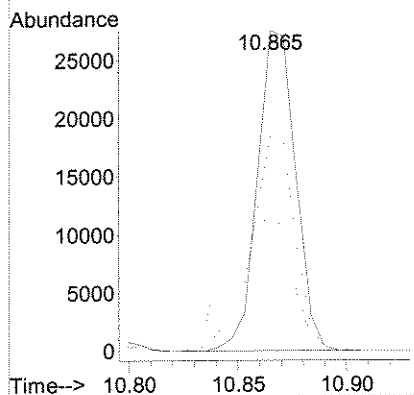
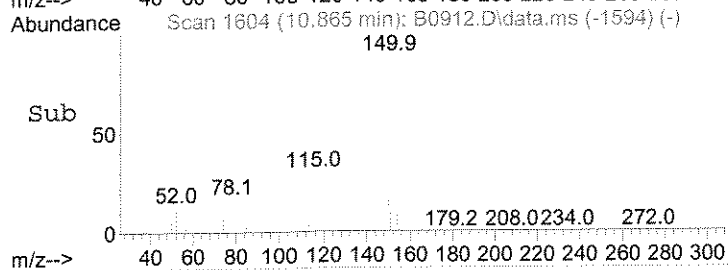




#101
 1,4-Diclbz
 Concen: 1.21 ug/L
 RT: 10.865 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: B0912.D
 Acq: 3 Jul 2008 5:56 pm



Tgt Ion	Ratio	Lower	Upper
146	100		
148	67.2	51.2	76.8
111	42.9	30.0	45.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-57AB

Date Sampled : 06/27/08 11:30 Order #: 1113428 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	0.91 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	0.29 J	UG/L
BROMOFORM	1.0	1.1	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	1.8 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	0.22 J	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	3.6	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	98	UG/L
CHLOROMETHANE	2.0	3.6	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	0.23 J	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0	UG/L
1,4-DICHLOROBENZENE	2.0	1.6 J	UG/L
1,3-DICHLOROBENZENE	2.0	3.0	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-57AB

Date Sampled : 06/27/08 11:30 Order #: 1113428 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	3.9	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.3	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	0.69 J	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(70 - 130 %)	108	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	98	%

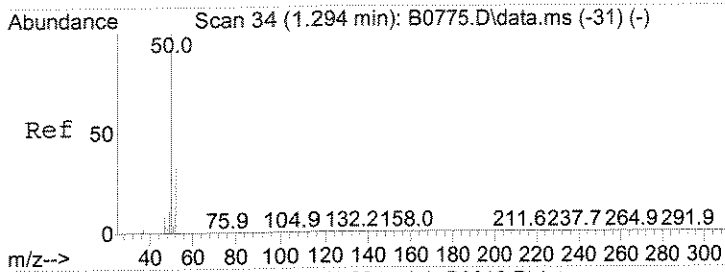
Sample : 1113428 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0913.D Vial: 12
 Acq On : 3 Jul 2008 6:26 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 18:40:20 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1315589	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2156442	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.854	117	2000011	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1066258	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	694046	48.98	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	97.96%		
49) surr1,1,2-dichloroetha...	4.891	65	739407	54.55	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.10%		
65) SURR3,Toluene-d8	7.452	98	2574624	54.85	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.70%		
70) SURR2,BFB	9.896	95	1041485	53.87	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.74%		
Target Compounds							
4) Chloromethane	1.294	50	35493	3.63	ug/L	100	
16) Acetone	2.129	43	1471	0.91	ug/L	74	J
17) 2-Propanol	2.123	45	289	0.84	ug/L #	1	
21) Allyl Chloride	2.276	76	2472	0.50	ug/L #	1	
23) Methylene Chloride	2.446	84	43235	3.92	ug/L	94	J
24) TBA	2.501	59	965	1.76	ug/L #	49	J
26) Methyl-t-Butyl Ether	2.666	73	4977	0.22	ug/L #	88	J
40) Tetrahydrofuran	4.123	42	4238	2.71	ug/L #	1	
41) Chloroform	4.117	83	1880447	98.52	ug/L	99	
47) Carbontetrachloride	4.641	121	19391	3.64	ug/L	92	
54) Trichloroethene	5.988	130	8256	0.69	ug/L	87	J
60) Bromodichloromethane	6.641	83	4577	0.29	ug/L #	94	J
72) Tetrachloroethene	8.073	164	12880	1.29	ug/L	90	
75) Dibromochloromethane	8.323	129	2570	0.23	ug/L	89	J
83) Bromoform	9.610	173	7805	1.11	ug/L	89	
85) Cyclohexanone	9.853	55	351	0.39	ug/L #	27	
100) 1,3-Dclbenz	10.798	146	80023	2.98	ug/L	96	
101) 1,4-Dclbenz	10.872	146	43432	1.56	ug/L	98	J
104) 1,2-Dclbenz	11.164	146	50532	2.00	ug/L	97	
109) Naphthalen	12.383	128	896	0.56	ug/L #	78	LR

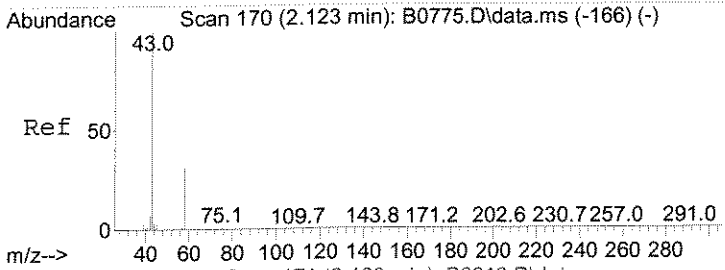
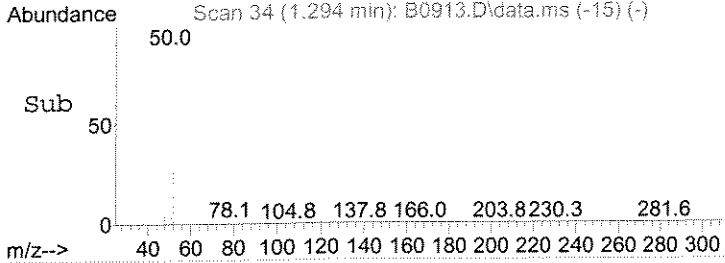
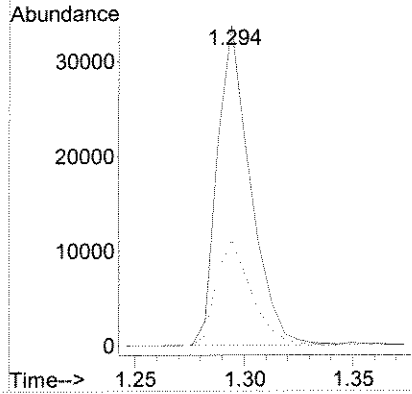
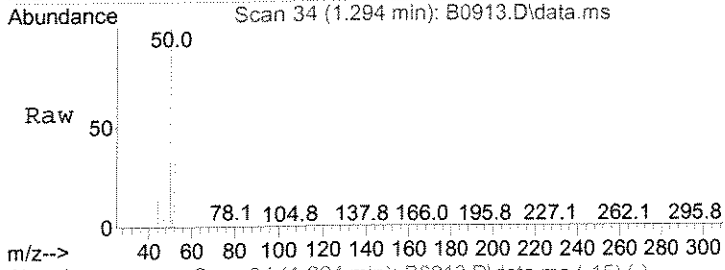
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FD
7/1/08



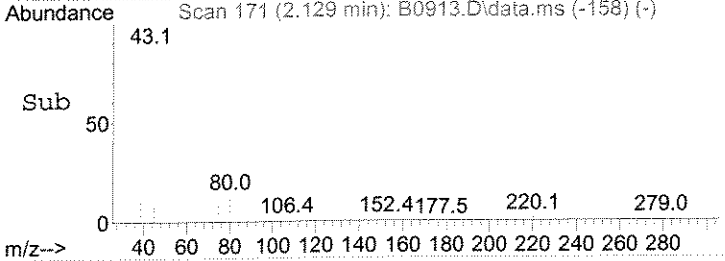
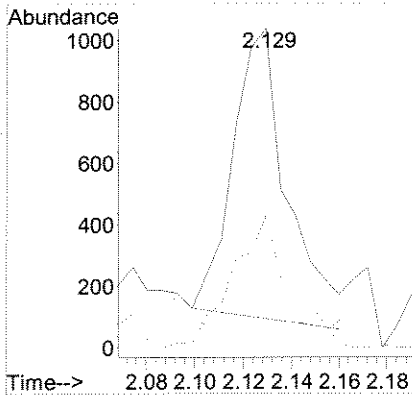
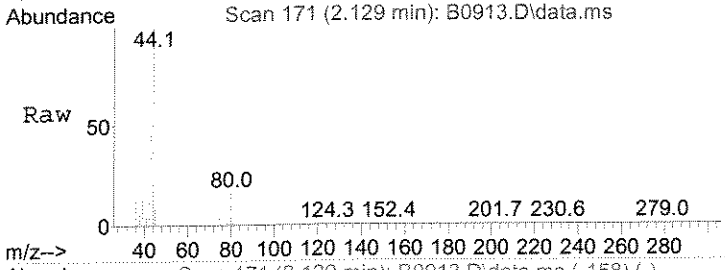
#4
 Chloromethane
 Concen: 3.63 ug/L
 RT: 1.294 min Scan# 34
 Delta R.T. -0.000 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

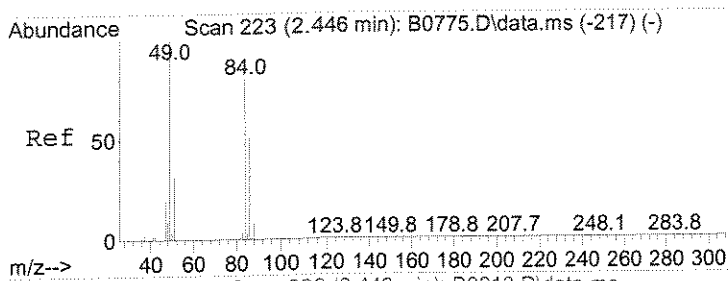
Tgt Ion	Resp	Lower	Upper
50	100		
52	33.1	3.1	63.1



#16
 Acetone
 Concen: 0.91 ug/L
 RT: 2.129 min Scan# 171
 Delta R.T. 0.006 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

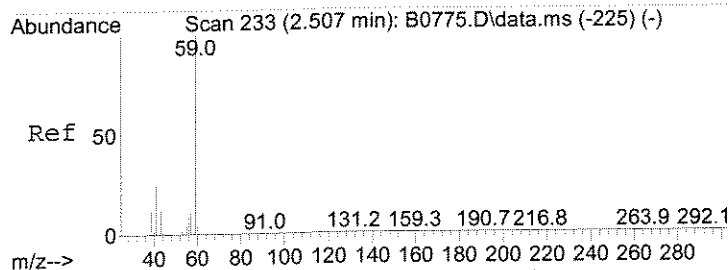
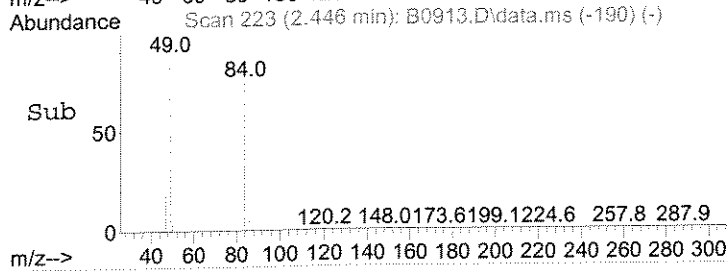
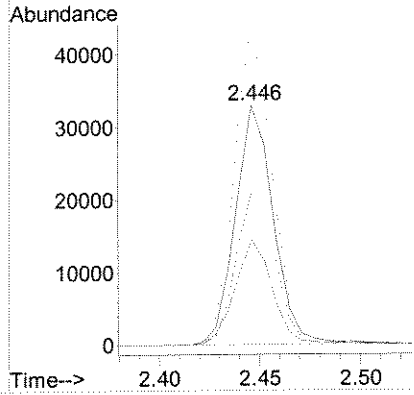
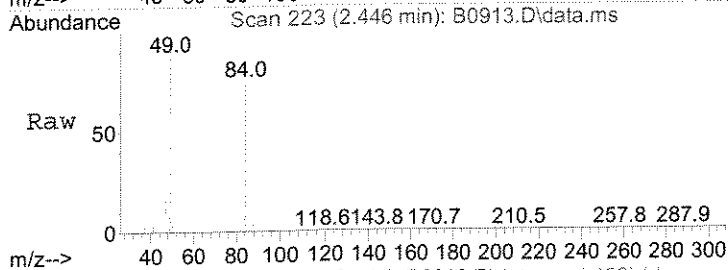
Tgt Ion	Resp	Lower	Upper
43	100		
58	41.7	0.9	60.9
42	25.3	0.0	37.2





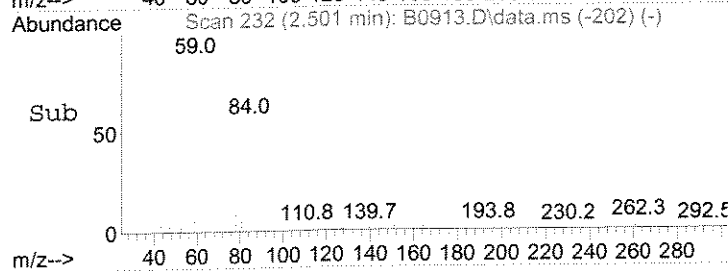
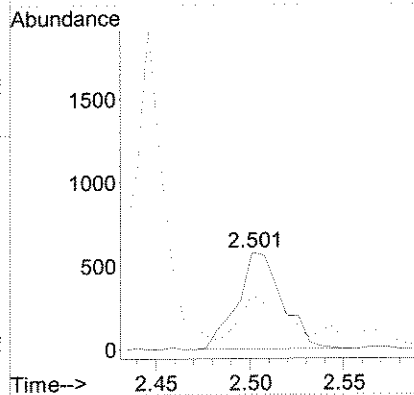
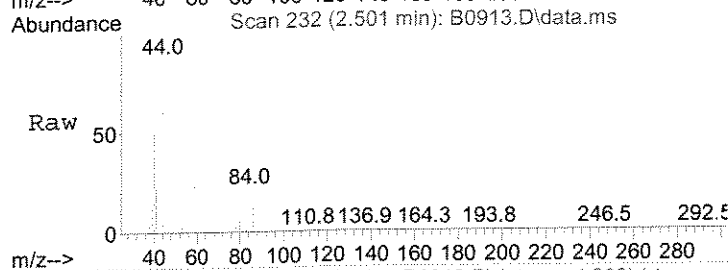
#23
 Methylene Chloride
 Concen: 3.92 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

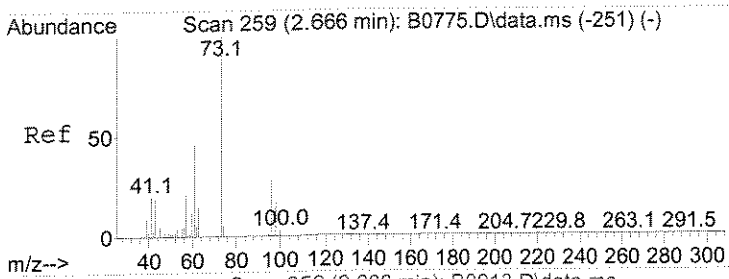
Tgt Ion	Ratio	Resp	Lower	Upper
84	100	43235		
86	63.5		50.5	75.7
49	133.5		99.5	149.3
51	43.8		31.1	46.7



#24
 TBA
 Concen: 1.76 ug/L
 RT: 2.501 min Scan# 232
 Delta R.T. -0.006 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

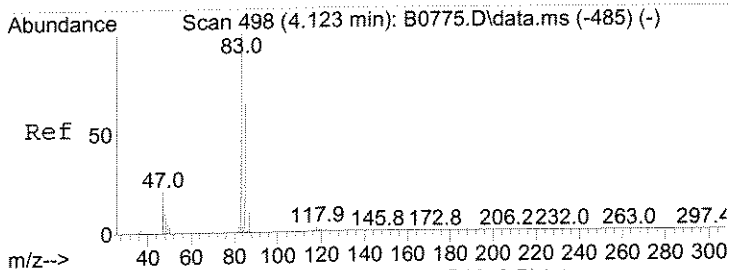
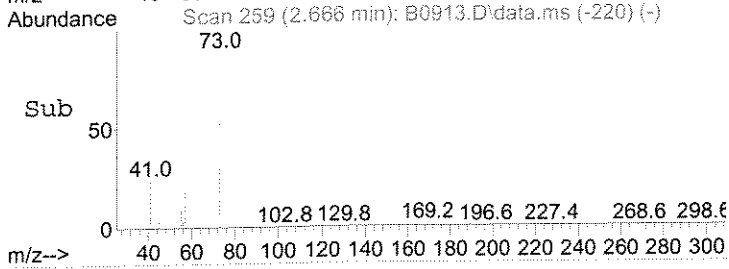
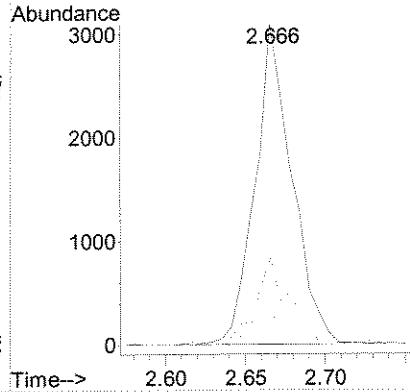
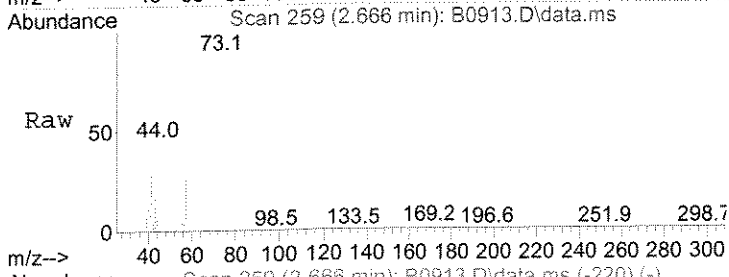
Tgt Ion	Ratio	Resp	Lower	Upper
59	100	965		
41	56.5		14.5	43.6#





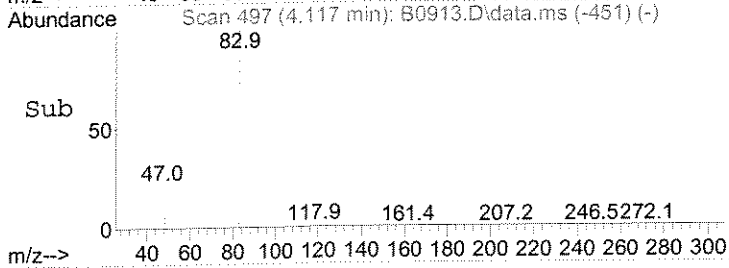
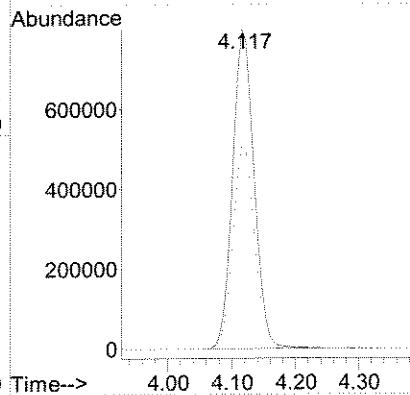
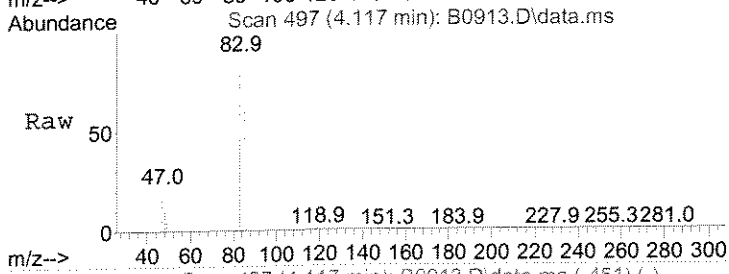
#26
Methyl-t-Butyl Ether
Concen: 0.22 ug/L
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: B0913.D
Acq: 3 Jul 2008 6:26 pm

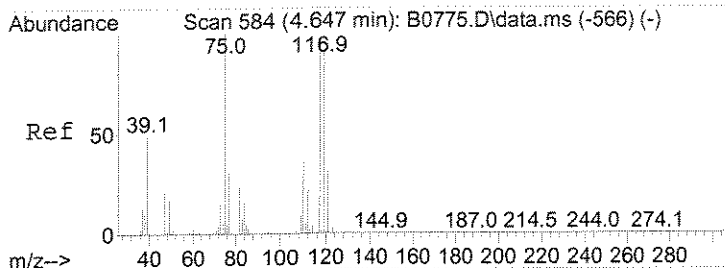
Tgt Ion	Ratio	Lower	Upper
73	100		
57	27.2	17.0	25.6#
55	9.3	4.2	6.4#



#41
Chloroform
Concen: 98.52 ug/L
RT: 4.117 min Scan# 497
Delta R.T. -0.006 min
Lab File: B0913.D
Acq: 3 Jul 2008 6:26 pm

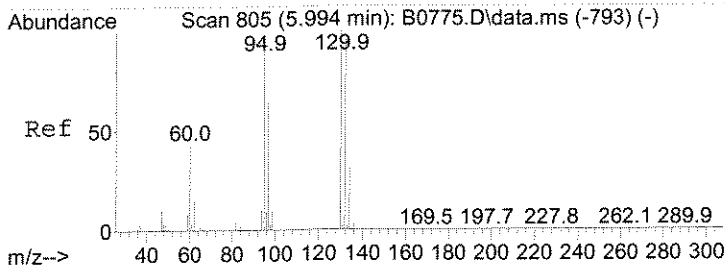
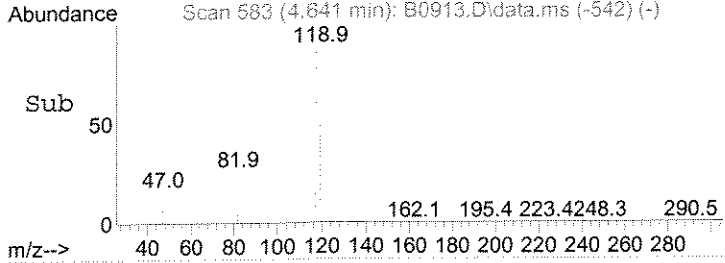
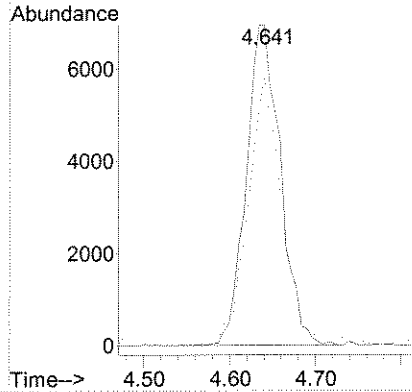
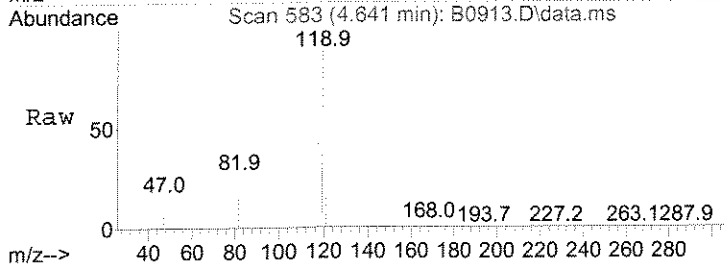
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.7	77.5
47	21.9	17.1	25.7





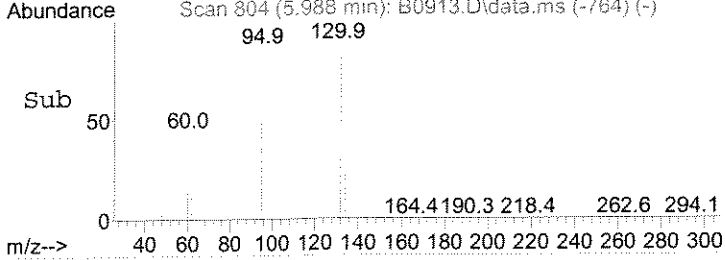
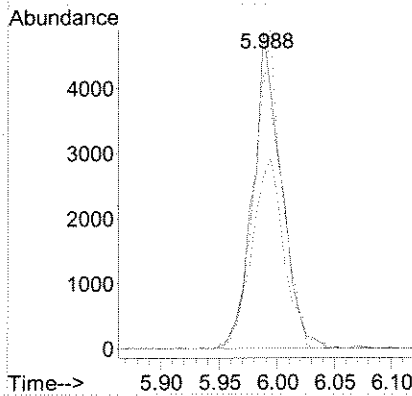
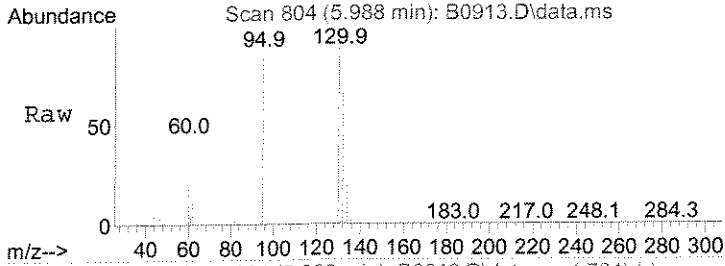
#47
 Carbontetrachloride
 Concen: 3.64 ug/L
 RT: 4.641 min Scan# 583
 Delta R.T. -0.000 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

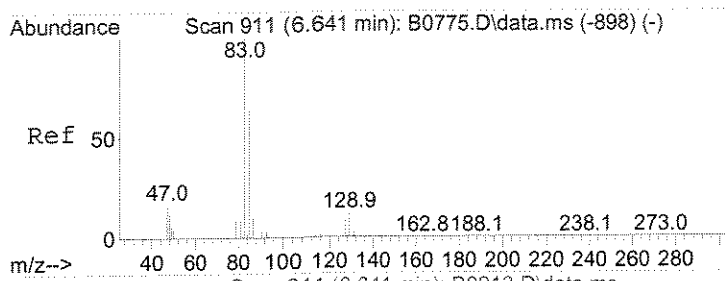
Tgt Ion	Ratio	Resp	Lower	Upper
121	100	19391		
82	84.1	62.0	62.0	93.0



#54
 Trichloroethene
 Concen: 0.69 ug/L
 RT: 5.988 min Scan# 804
 Delta R.T. -0.006 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

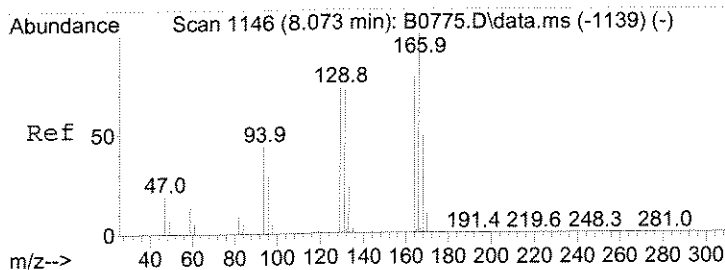
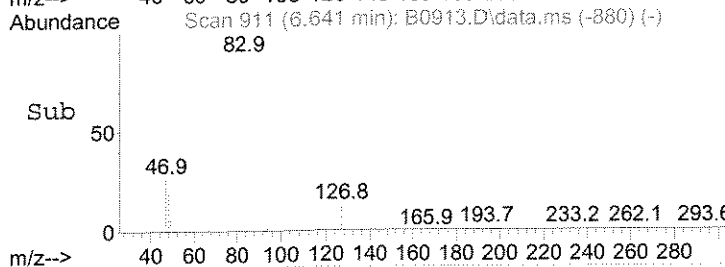
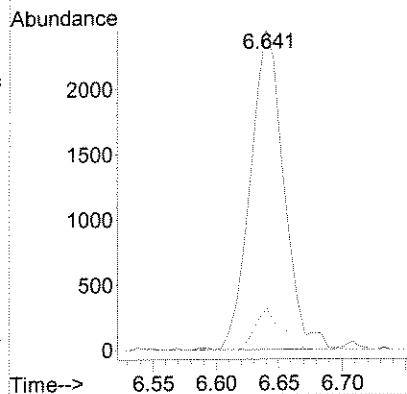
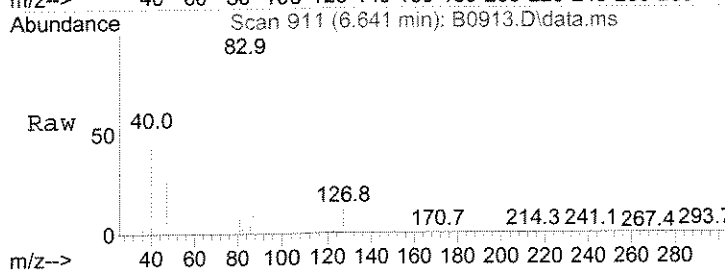
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	8256		
132	82.3	77.0	77.0	115.4
95	86.6	78.6	78.6	118.0
97	54.3	50.9	50.9	76.3





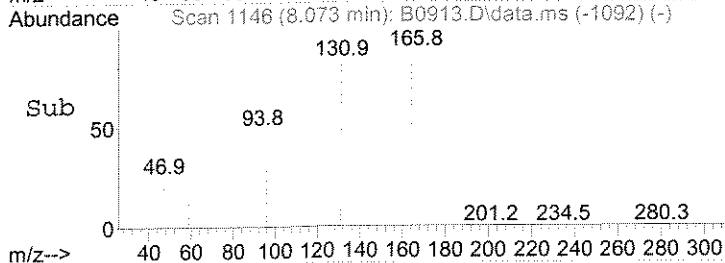
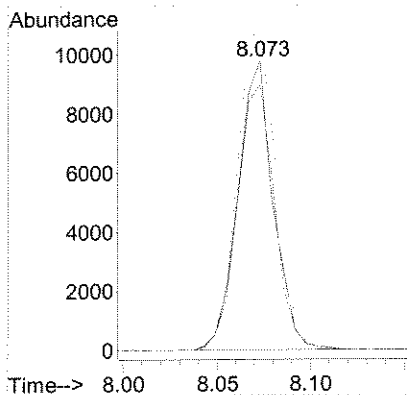
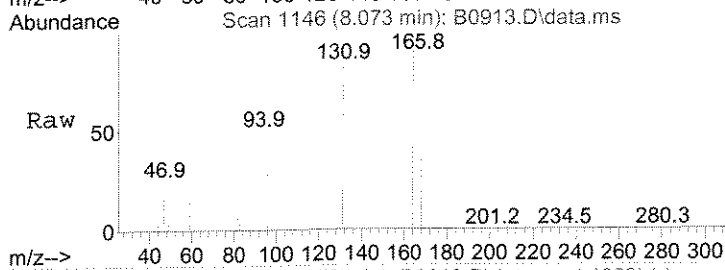
#60
 Bromodichloromethane
 Concen: 0.29 ug/L
 RT: 6.641 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

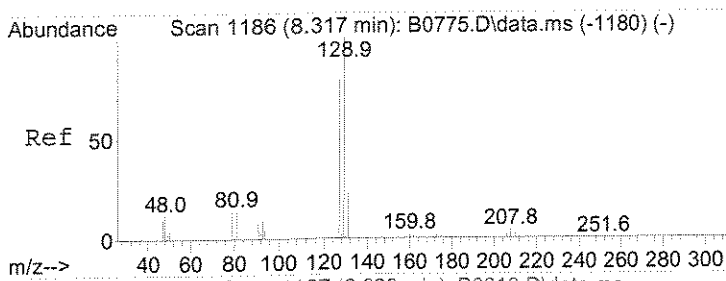
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	4577		
129	13.1	9.5	14.3	
127	12.7	7.2	10.8#	



#72
 Tetrachloroethene
 Concen: 1.29 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

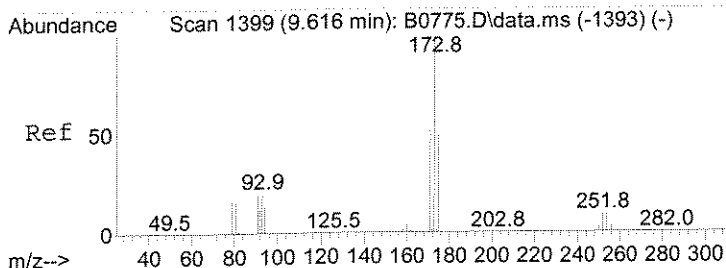
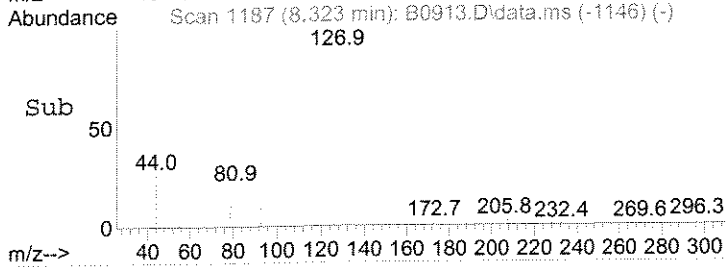
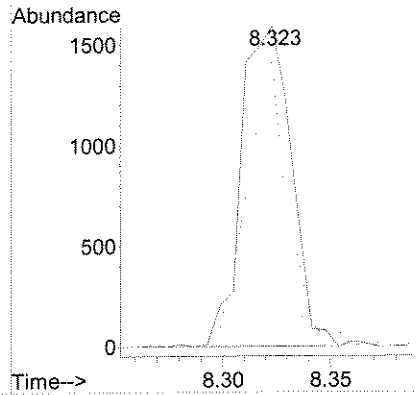
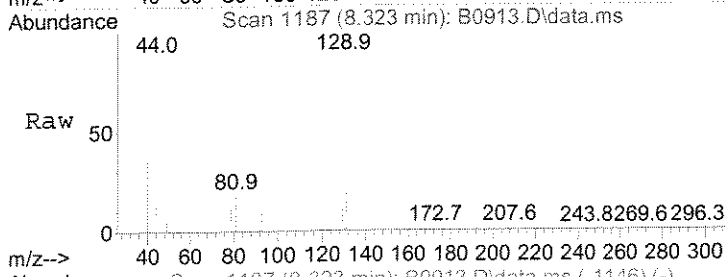
Tgt Ion	Ratio	Resp	Lower	Upper
164	100	12880		
166	110.5	101.5	152.3	
129	78.8	73.8	110.6	
131	91.9	72.9	109.3	





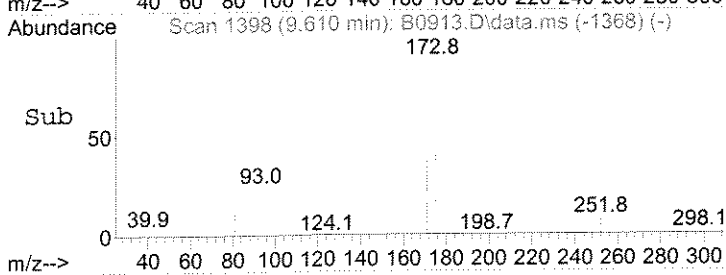
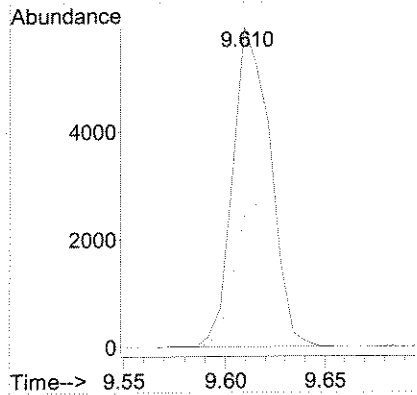
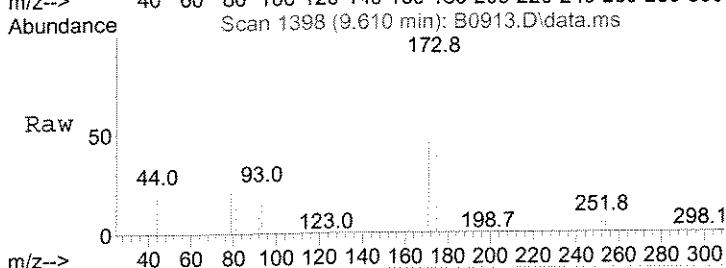
#75
 Dibromochloromethane
 Concen: 0.23 ug/L
 RT: 8.323 min Scan# 1187
 Delta R.T. -0.000 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

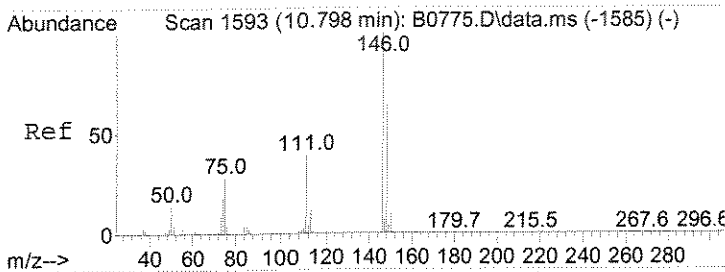
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	2570		
127	89.8		63.2	94.8
131	20.0		18.8	28.2



#83
 Bromoform
 Concen: 1.11 ug/L
 RT: 9.610 min Scan# 1398
 Delta R.T. -0.006 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

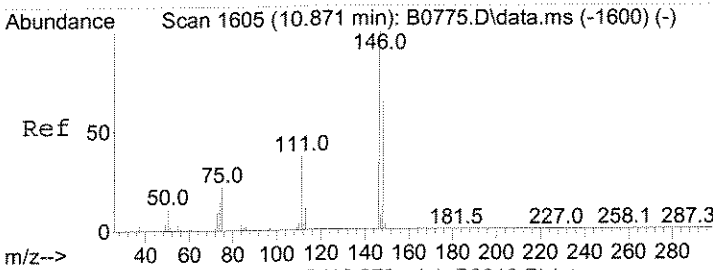
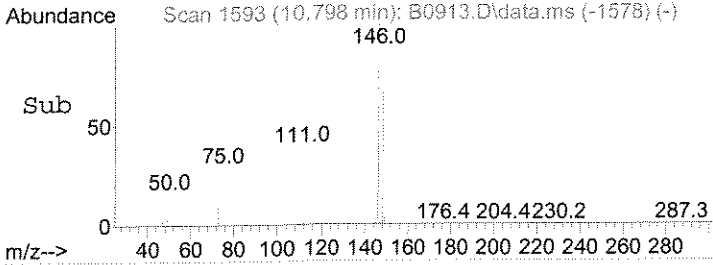
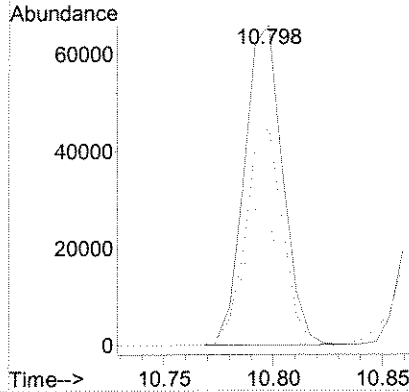
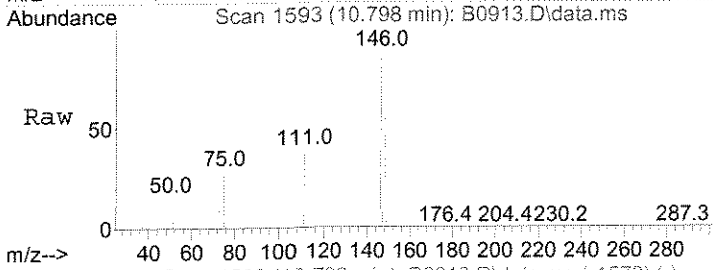
Tgt Ion	Ratio	Resp	Lower	Upper
173	100	7805		
175	41.9		39.4	59.0





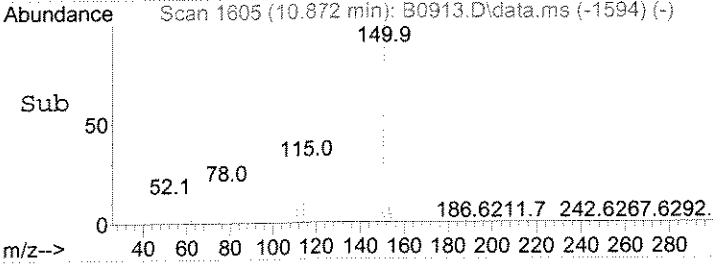
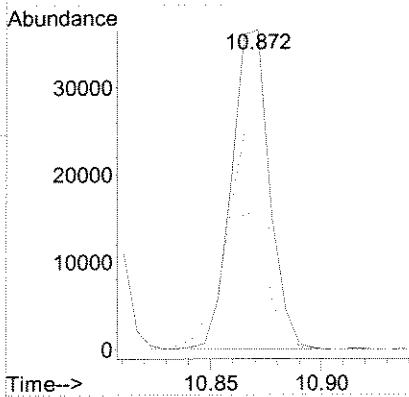
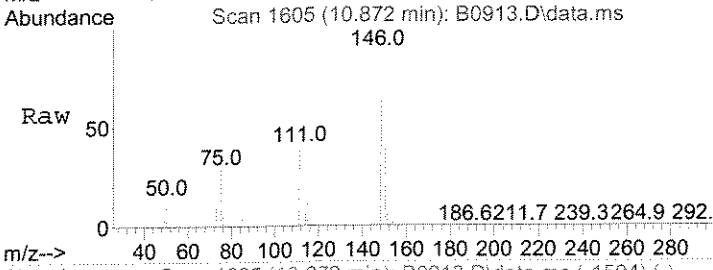
#100
 1,3-Dclbenz
 Concen: 2.98 ug/L
 RT: 10.798 min Scan# 1593
 Delta R.T. -0.000 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

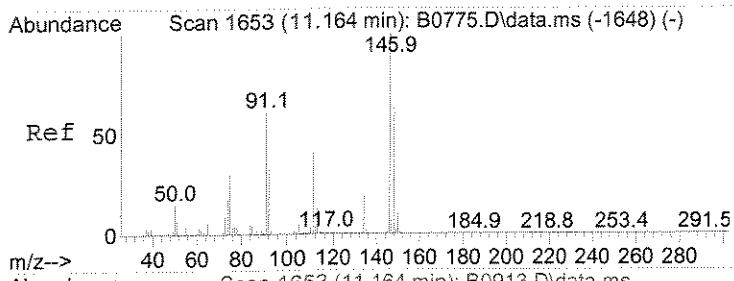
Tgt Ion	Ratio	Lower	Upper
146	100		
148	68.1	51.2	76.8
111	38.8	31.4	47.0



#101
 1,4-Dclbenz
 Concen: 1.56 ug/L
 RT: 10.872 min Scan# 1605
 Delta R.T. -0.000 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

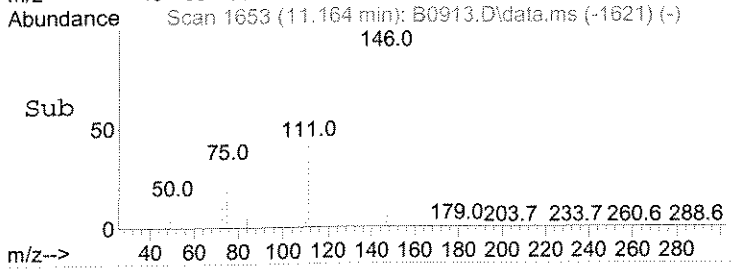
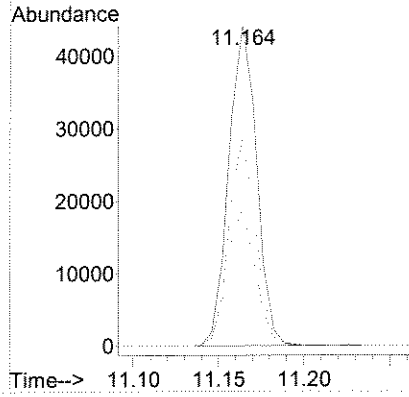
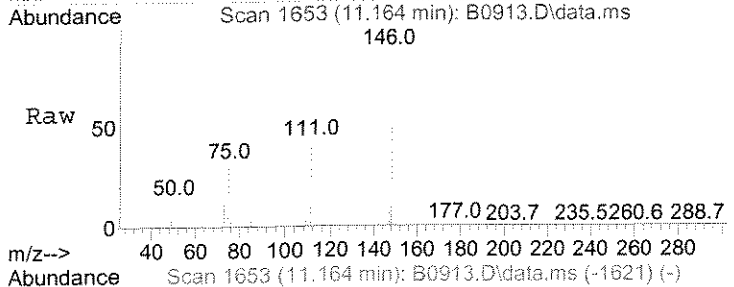
Tgt Ion	Ratio	Lower	Upper
146	100		
148	62.8	51.2	76.8
111	39.6	30.0	45.0





#104
 1,2-Dclbenz
 Concen: 2.00 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. -0.000 min
 Lab File: B0913.D
 Acq: 3 Jul 2008 6:26 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.8	50.3	75.5
111	42.9	33.0	49.4



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-95B

Date Sampled : 06/27/08 08:30 Order #: 1113429 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	1.1 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	0.24 J	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	2.7 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	2.6	UG/L
CHLOROENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	410 E	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	0.29 J	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-95B

Date Sampled : 06/27/08 08:30 Order #: 1113429 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.23 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	0.67 J	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.1	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	0.56 J	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	99	%

Sample : 1113429 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0914.D Vial: 13
 Acq On : 3 Jul 2008 6:55 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 19:10:09 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1336977	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2165746	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2008165	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1076009	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4, Dibrflmethane	4.348	113	702012	49.45	ug/L	0.00	
Spiked Amount	50.000						Recovery = 98.90%
49) surr1, 1,2-dichloroetha...	4.891	65	734629	53.96	ug/L	0.00	
Spiked Amount	50.000						Recovery = 107.92%
65) SURR3, Toluene-d8	7.445	98	2582539	54.78	ug/L	0.00	
Spiked Amount	50.000						Recovery = 109.56%
70) SURR2, BFB	9.896	95	1037972	53.46	ug/L	0.00	
Spiked Amount	50.000						Recovery = 106.92%
Target Compounds							
16) Acetone	2.123	43	1802	1.09	ug/L	77	45
17) 2-Propanol	2.190	45	418	1.19	ug/L #	52	
21) Allyl Chloride	2.269	76	1835	0.36	ug/L #	1	
23) Methylene Chloride	2.452	84	2615	0.23	ug/L #	84	
24) TBA	2.513	59	1523	2.74	ug/L	86	25 JB
40) Tetrahydrofuran	4.117	42	14519	9.14	ug/L #	1	
41) Chloroform	4.117	83	8044163	414.69	ug/L	99	E
47) Carbontetrachloride	4.641	121	13675	2.55	ug/L	90	
51) 1,2-Dichloroethane	5.025	62	4425	0.29	ug/L	98	J
54) Trichloroethene	5.994	130	13371	1.12	ug/L	97	
60) Bromodichloromethane	6.640	83	3754	0.24	ug/L	97	
72) Tetrachloroethene	8.067	164	6678	0.67	ug/L	91	35
85) Cyclohexanone	9.847	55	792	0.87	ug/L #	33	
91) 1,2,3-Trichloropropane	10.061	110	1651	0.56	ug/L	86	J
109) Naphthalen	12.383	128	945	0.56	ug/L #	73	< LR

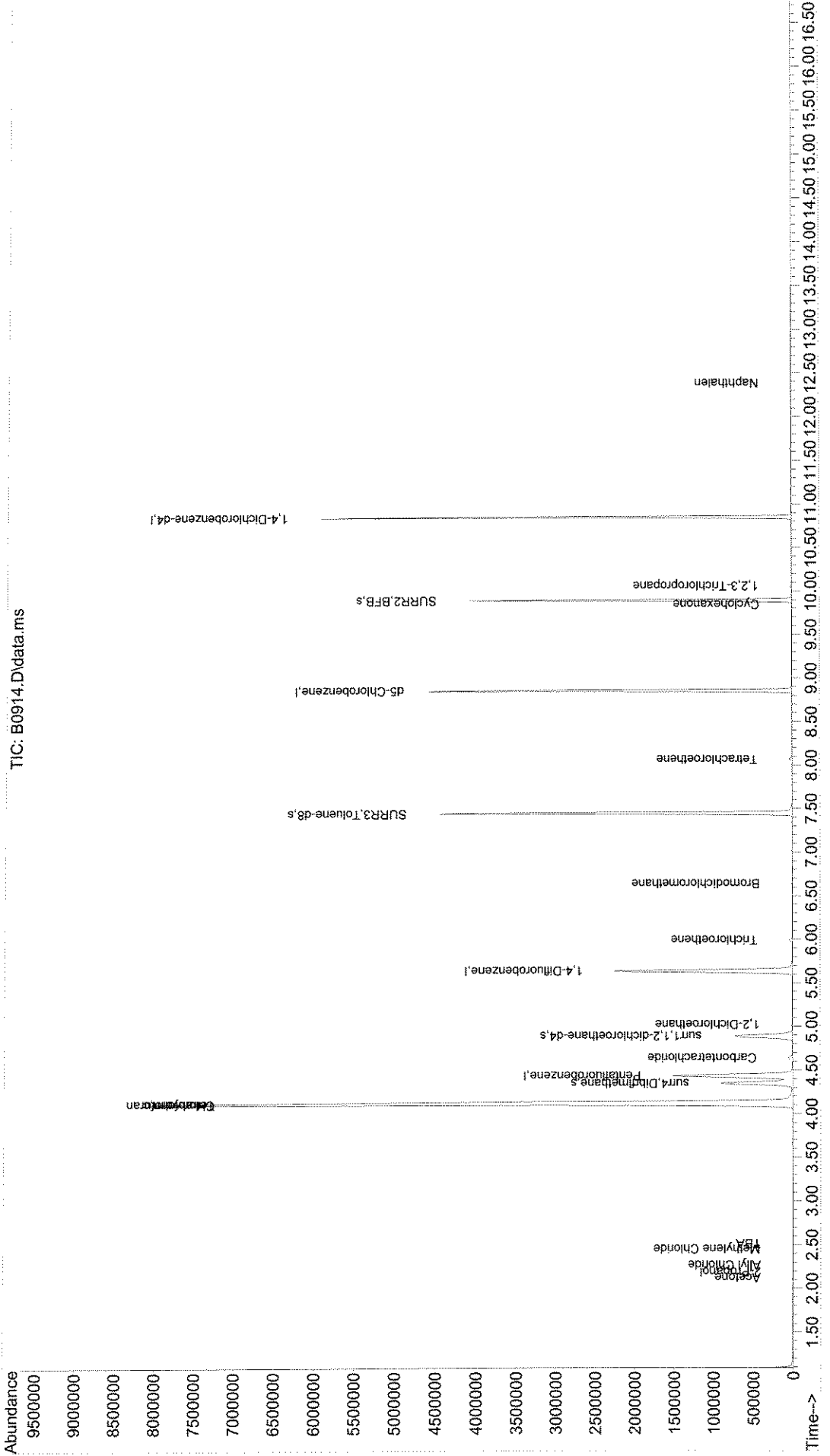
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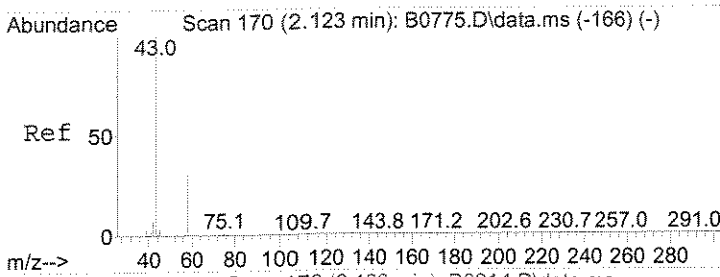
RPT 1/2.5

FJ
7/1/08

Sample : 1113429 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0914.D Vial: 13
 Acq On : 3 Jul 2008 6:55 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

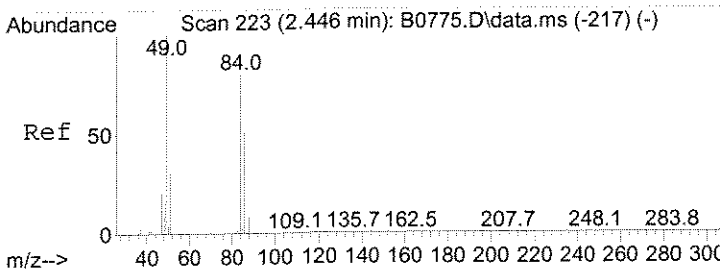
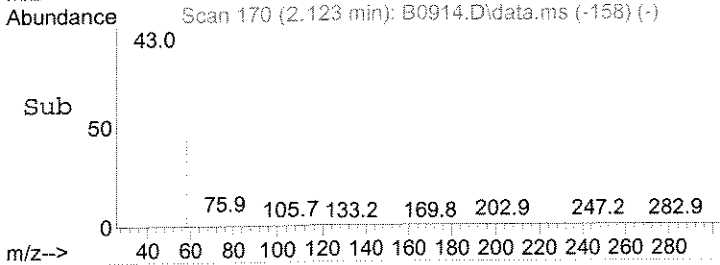
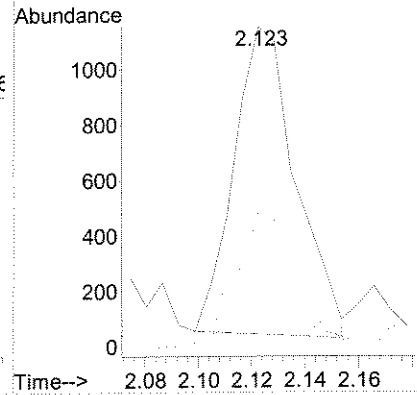
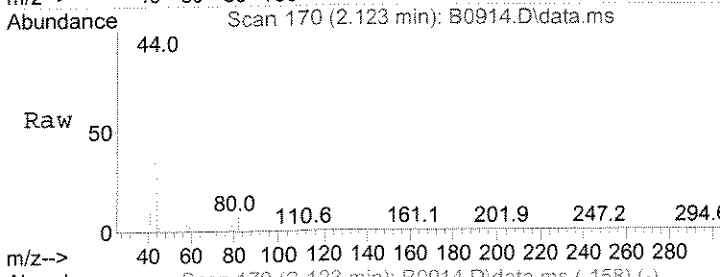
Quant Time: Jul 03 19:10:09 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





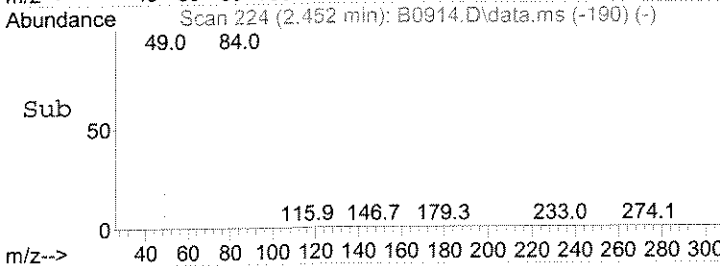
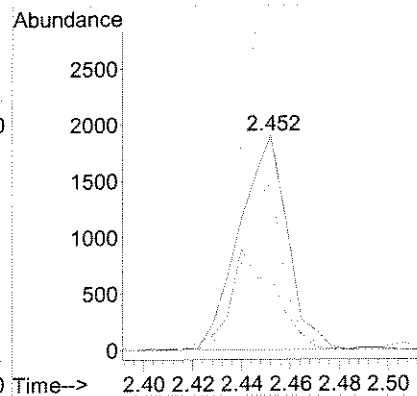
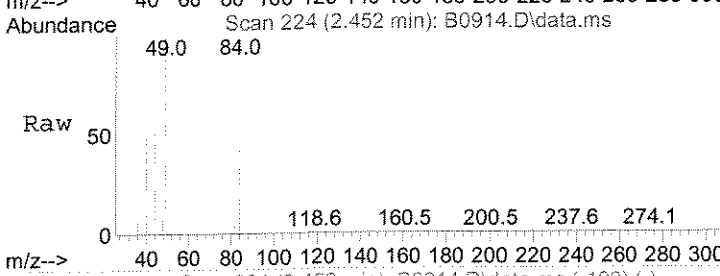
#16
 Acetone
 Concen: 1.09 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0914.D
 Acq: 3 Jul 2008 6:55 pm

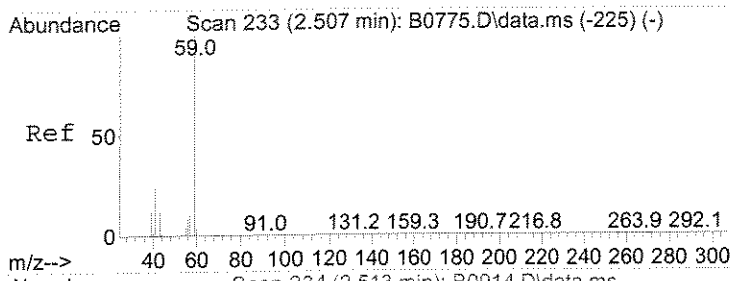
Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.2	0.9	60.9
42	16.7	0.0	37.2



#23
 Methylene Chloride
 Concen: 0.23 ug/L
 RT: 2.452 min Scan# 224
 Delta R.T. 0.006 min
 Lab File: B0914.D
 Acq: 3 Jul 2008 6:55 pm

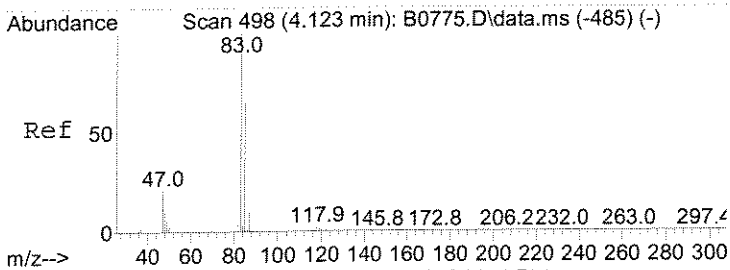
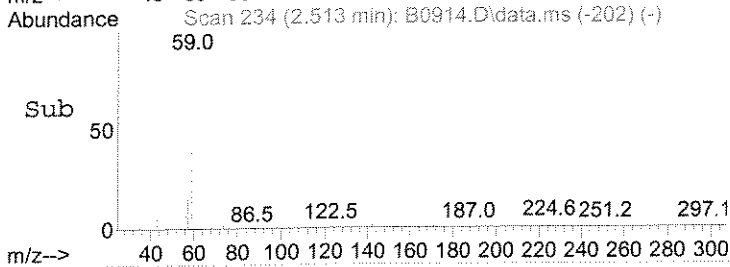
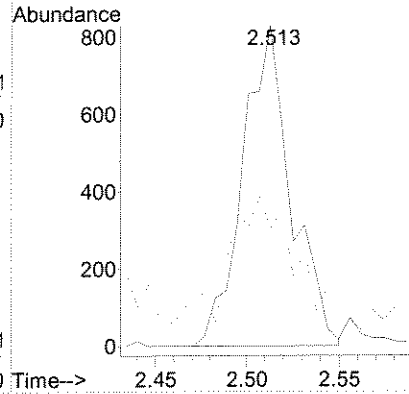
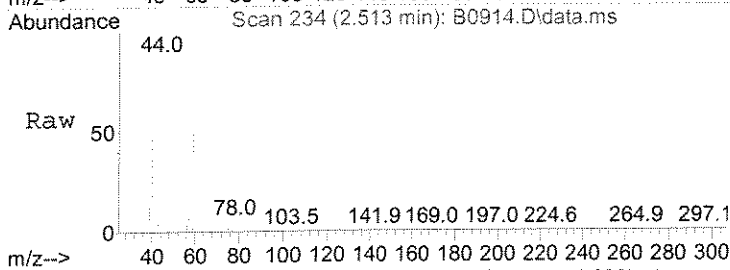
Tgt Ion	Ratio	Lower	Upper
84	100		
86	78.7	50.5	75.7#
49	106.0	99.5	149.3
51	33.8	31.1	46.7





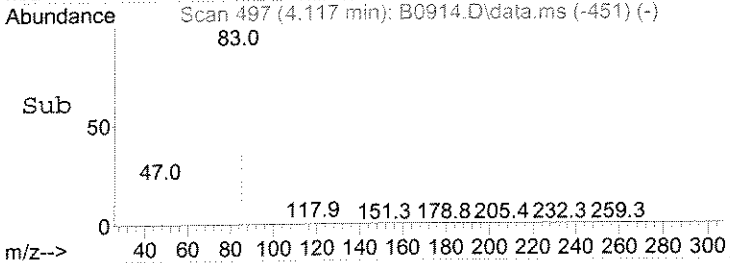
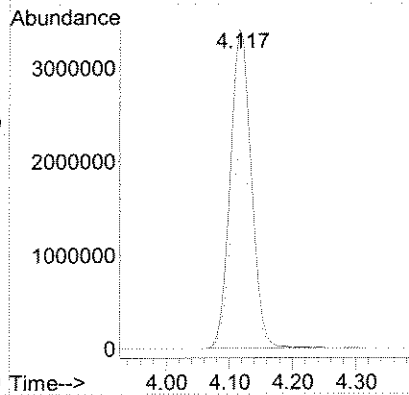
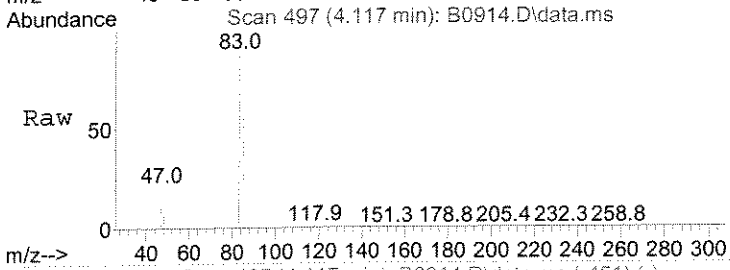
#24
TBA
Concen: 2.74 ug/L
RT: 2.513 min Scan# 234
Delta R.T. 0.006 min
Lab File: B0914.D
Acq: 3 Jul 2008 6:55 pm

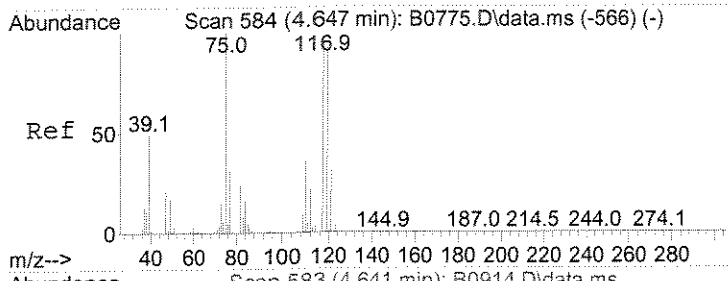
Tgt Ion	Resp	Lower	Upper
59	1523		
59	100		
41	36.8	14.5	43.6



#41
Chloroform
Concen: 414.69 ug/L
RT: 4.117 min Scan# 497
Delta R.T. -0.006 min
Lab File: B0914.D
Acq: 3 Jul 2008 6:55 pm

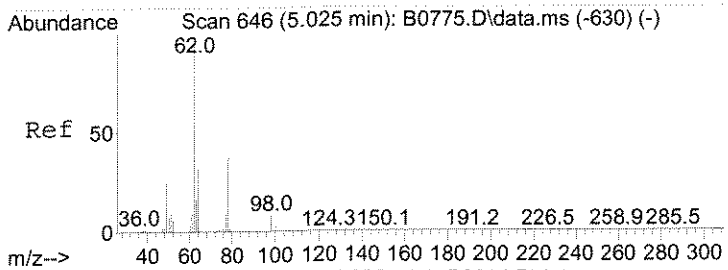
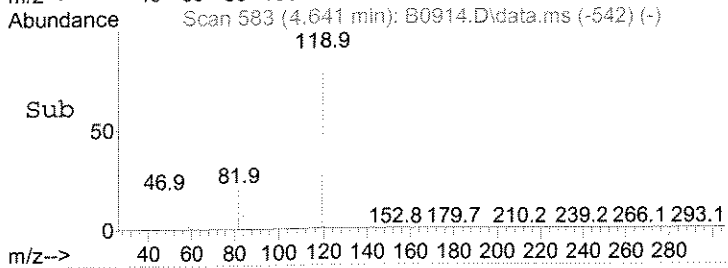
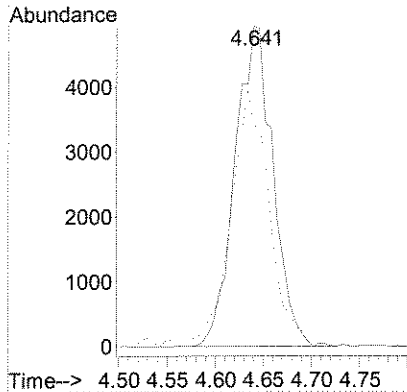
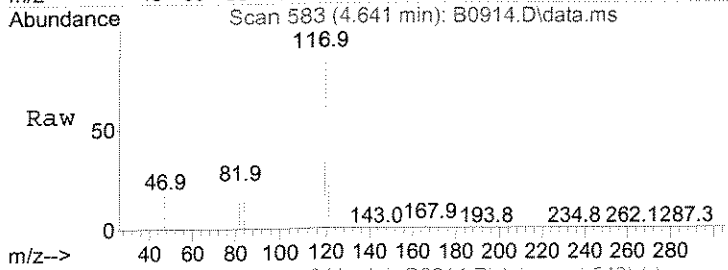
Tgt Ion	Resp	Lower	Upper
83	8044163		
83	100		
85	63.1	51.7	77.5
47	21.4	17.1	25.7





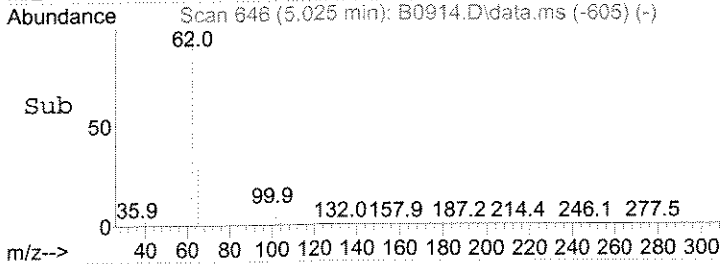
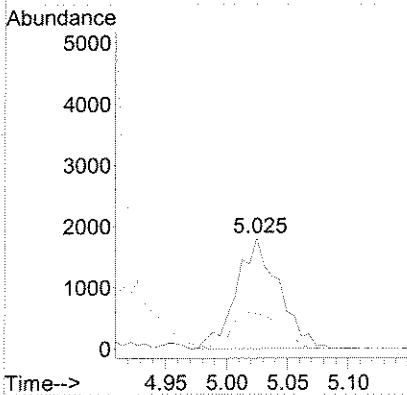
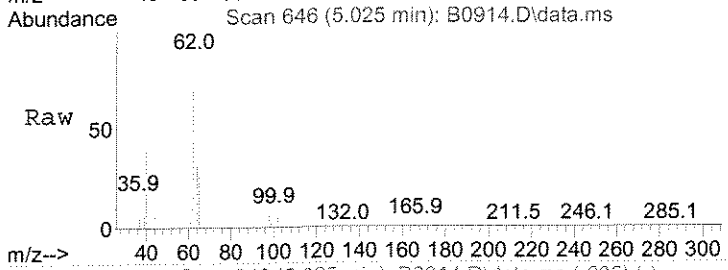
#47
 Carbontetrachloride
 Concen: 2.55 ug/L
 RT: 4.641 min Scan# 583
 Delta R.T. -0.000 min
 Lab File: B0914.D
 Acq: 3 Jul 2008 6:55 pm

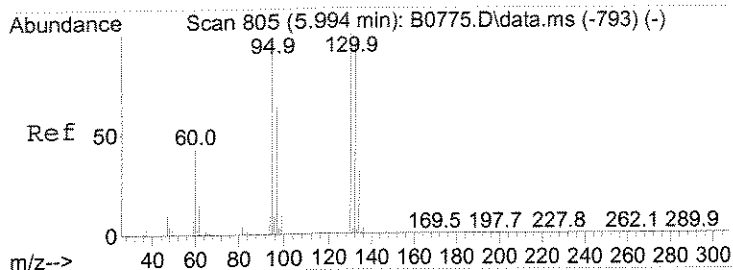
Tgt Ion: 121 Resp: 13675
 Ion Ratio Lower Upper
 121 100
 82 68.6 62.0 93.0



#51
 1,2-Dichloroethane
 Concen: 0.29 ug/L
 RT: 5.025 min Scan# 646
 Delta R.T. -0.000 min
 Lab File: B0914.D
 Acq: 3 Jul 2008 6:55 pm

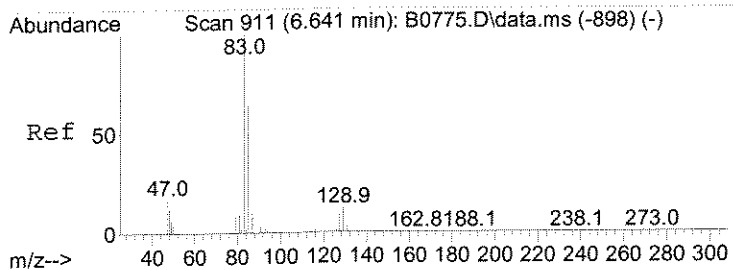
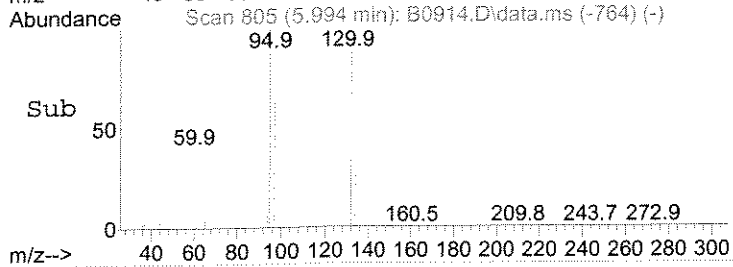
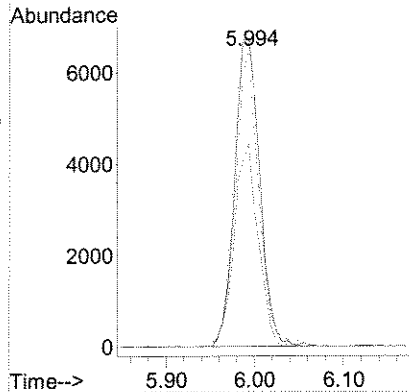
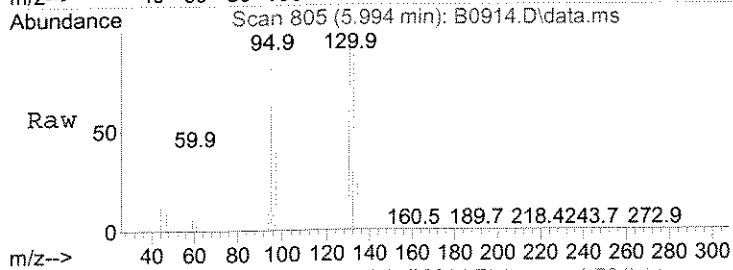
Tgt Ion: 62 Resp: 4425
 Ion Ratio Lower Upper
 62 100
 64 31.8 26.5 39.7
 49 24.6 20.2 30.4





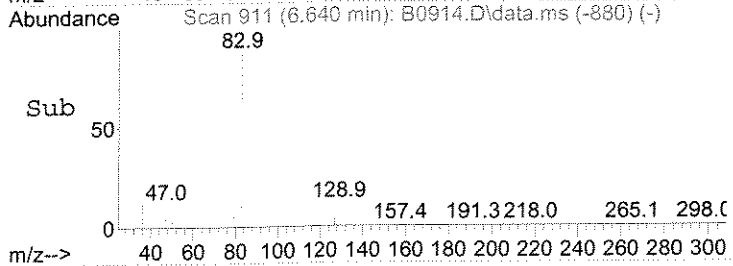
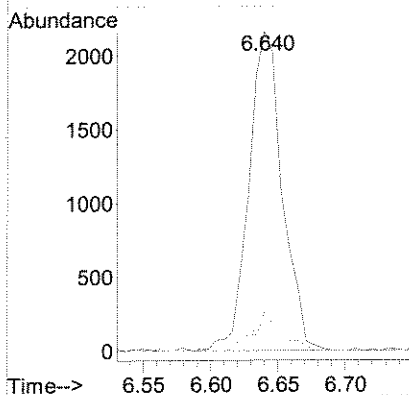
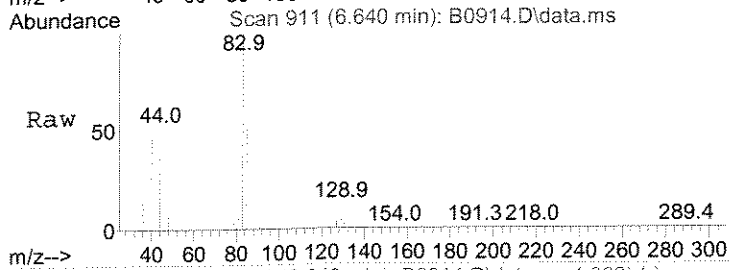
#54
 Trichloroethene
 Concen: 1.12 ug/L
 RT: 5.994 min Scan# 805
 Delta R.T. -0.000 min
 Lab File: B0914.D
 Acq: 3 Jul 2008 6:55 pm

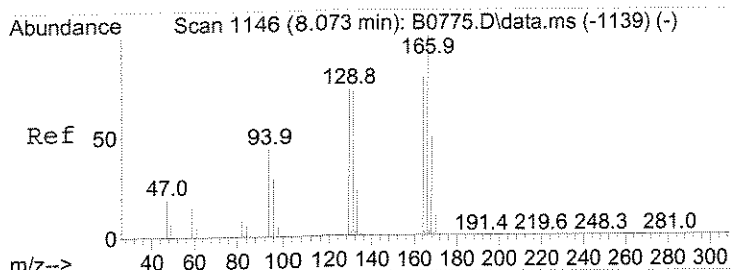
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	13371		
132	96.1	77.0	115.4	
95	104.0	78.6	118.0	
97	66.1	50.9	76.3	



#60
 Bromodichloromethane
 Concen: 0.24 ug/L
 RT: 6.640 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: B0914.D
 Acq: 3 Jul 2008 6:55 pm

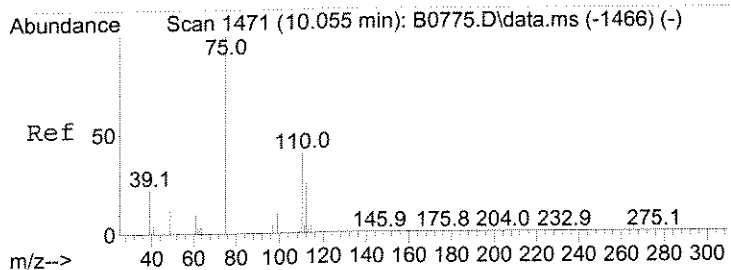
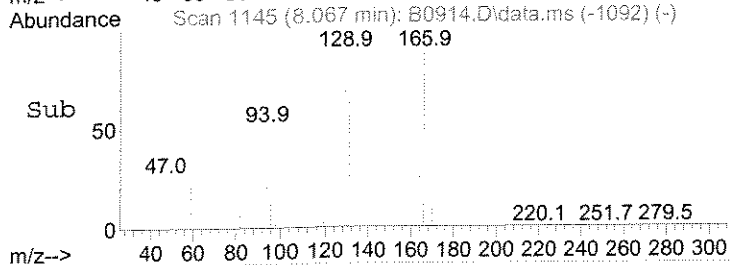
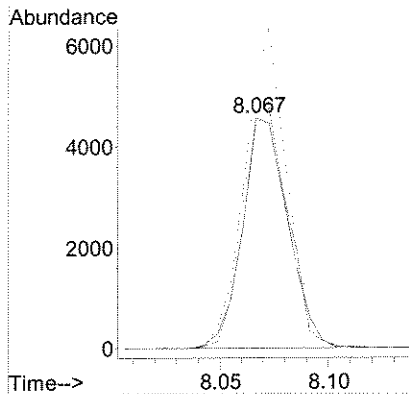
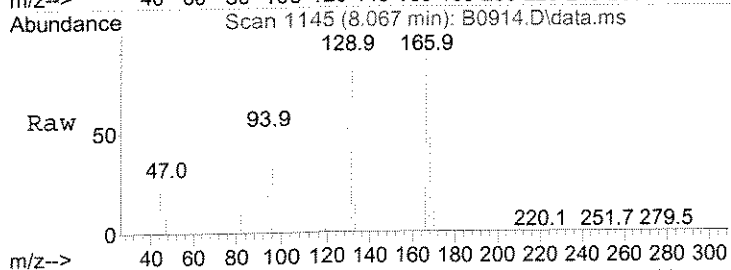
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	3754		
129	12.8	9.5	14.3	
127	7.9	7.2	10.8	





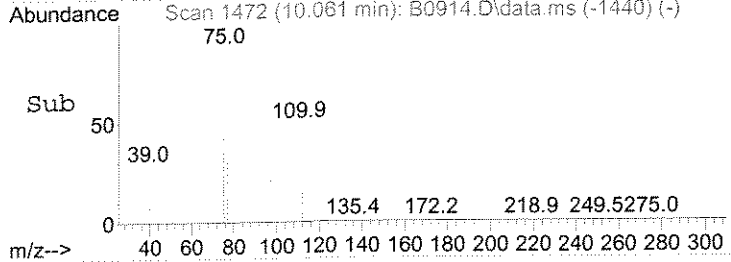
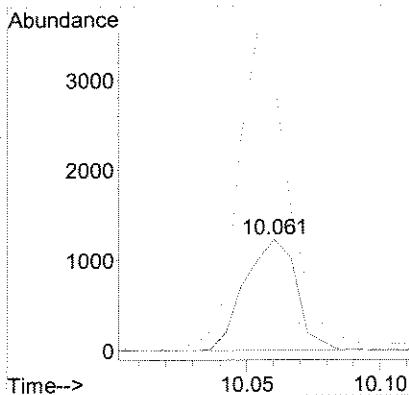
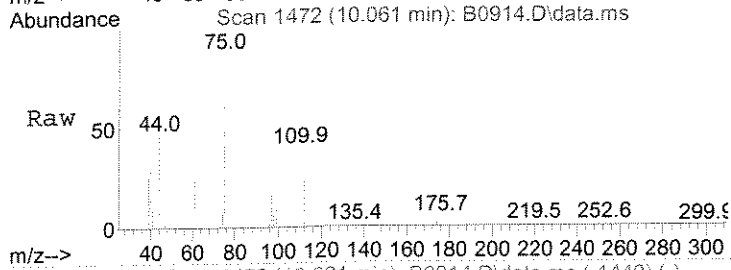
#72
 Tetrachloroethene
 Concen: 0.67 ug/L
 RT: 8.067 min Scan# 1145
 Delta R.T. -0.006 min
 Lab File: B0914.D
 Acq: 3 Jul 2008 6:55 pm

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	6678		
166	116.1		101.5	152.3
129	103.5		73.8	110.6
131	96.6		72.9	109.3



#91
 1,2,3-Trichloropropane
 Concen: 0.56 ug/L
 RT: 10.061 min Scan# 1472
 Delta R.T. -0.000 min
 Lab File: B0914.D
 Acq: 3 Jul 2008 6:55 pm

Tgt Ion	Ratio	Resp	Lower	Upper
110	100	1651		
75	250.5		224.9	337.3
112	60.4		50.0	75.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-95B

Date Sampled : 06/27/08 08:30 Order #: 1113429 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/09/08		
ANALYTICAL DILUTION:	2.50		
ACETONE	20	7.1 JD	UG/L
BENZENE	1.0	2.5 U	UG/L
BROMOBENZENE	2.0	5.0 U	UG/L
BROMOCHLOROMETHANE	2.0	5.0 U	UG/L
BROMODICHLOROMETHANE	1.0	2.5 U	UG/L
BROMOFORM	1.0	2.5 U	UG/L
BROMOMETHANE	2.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	25 U	UG/L
TERT-BUTYL ALCOHOL	100	9.0 JDB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	2.5 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	2.5 U	UG/L
TERT-BUTYLBENZENE	2.0	5.0 U	UG/L
SEC-BUTYLBENZENE	2.0	5.0 U	UG/L
N-BUTYLBENZENE	5.0	13 U	UG/L
CARBON TETRACHLORIDE	1.0	2.2 JD	UG/L
CHLOROBENZENE	1.0	2.5 U	UG/L
CHLOROETHANE	2.0	5.0 U	UG/L
CHLOROFORM	1.0	390 D	UG/L
CHLOROMETHANE	2.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	13 U	UG/L
2-CHLOROTOLUENE	5.0	13 U	UG/L
4-CHLOROTOLUENE	5.0	13 U	UG/L
DIBROMOCHLOROMETHANE	1.0	2.5 U	UG/L
1,2-DIBROMOETHANE	1.0	2.5 U	UG/L
DIBROMOMETHANE	1.0	2.5 U	UG/L
1,2-DICHLOROBENZENE	2.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	5.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	5.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	2.5 U	UG/L
1,1-DICHLOROETHANE	1.0	2.5 U	UG/L
1,2-DICHLOROETHANE	1.0	2.5 U	UG/L
1,1-DICHLOROETHENE	1.0	2.5 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	2.5 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	2.5 U	UG/L
2,2-DICHLOROPROPANE	2.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	2.5 U	UG/L
1,3-DICHLOROPROPANE	2.0	5.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	2.5 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	2.5 U	UG/L
ETHYLBENZENE	1.0	2.5 U	UG/L
HEXACHLOROBUTADIENE	5.0	13 U	UG/L
2-HEXANONE	10	25 U	UG/L
DI-ISOPROPYL ETHER	1.0	2.5 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-95B

Date Sampled : 06/27/08 08:30 Order #: 1113429 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/09/08		
ANALYTICAL DILUTION:	2.50		
ISOPROPYLBENZENE	2.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	5.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	2.5 U	UG/L
METHYLENE CHLORIDE	2.0	0.58 JD	UG/L
NAPHTHALENE	2.0	5.0 U	UG/L
4-METHYL-2-PENTANONE	10	25 U	UG/L
N-PROPYLBENZENE	2.0	5.0 U	UG/L
STYRENE	1.0	2.5 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	2.5 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	2.5 U	UG/L
TETRACHLOROETHENE	1.0	0.65 JD	UG/L
TOLUENE	1.0	2.5 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	5.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	2.5 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	2.5 U	UG/L
TRICHLOROETHENE	1.0	0.98 JD	UG/L
TRICHLOROFLUOROMETHANE	1.0	2.5 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	0.55 JD	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	2.5 U	UG/L
M+P-XYLENE	2.0	5.0 U	UG/L
O-XYLENE	1.0	2.5 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	110	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	99	%

Sample : 1113429 2.5
 Data File : J:\ACQUDATA\MSVOA10\DATA\070908\B1014.D Vial: 15
 Acq On : 9 Jul 2008 9:13 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 09 21:27:48 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

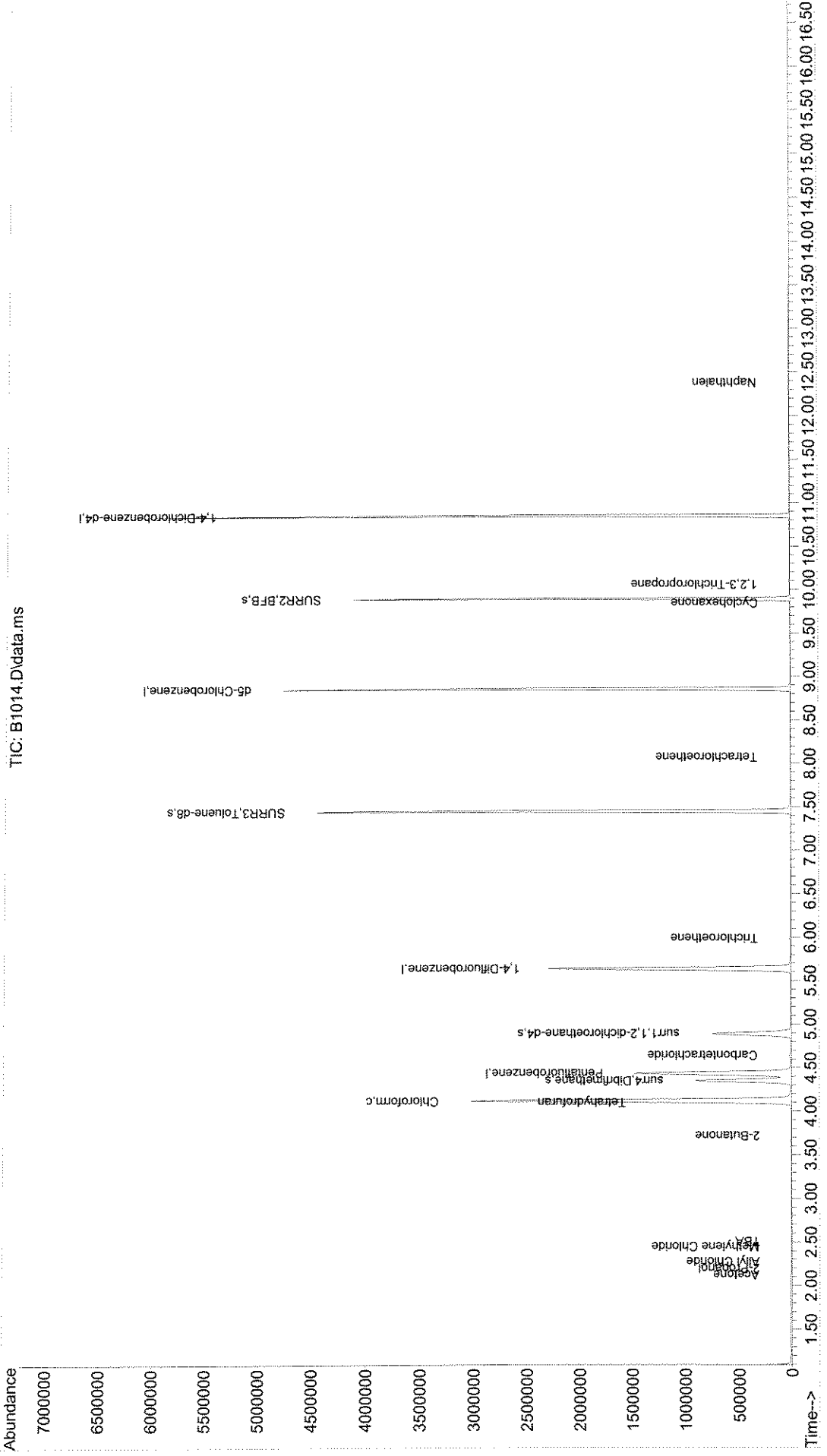
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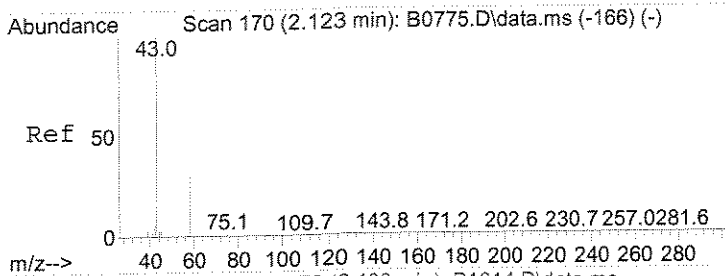
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1317486	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2182106	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.854	117	2076091	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1101520	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	705527	49.28	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	98.56%		
49) surr1,1,2-dichloroetha...	4.891	65	737343	53.76	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.52%		
65) SURR3,Toluene-d8	7.445	98	2615906	55.07	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	110.14%		
70) SURR2,BFB	9.896	95	1077735	55.09	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	110.18%		
Target Compounds							
16) Acetone	2.123	43	4606	2.83	ug/L	88	JD
17) 2-Propanol	2.196	45	2621	7.58	ug/L	99	NT
21) Allyl Chloride	2.276	76	1822	0.37	ug/L #	1	
23) Methylene Chloride	2.446	84	2535	0.23	ug/L #	93	JD
24) TBA	2.507	59	1974	3.60	ug/L	81	JD B
35) 2-Butanone	3.721	43	562	0.21	ug/L #	61	
40) Tetrahydrofuran	4.098	42	8030	5.13	ug/L #	1	
41) Chloroform	4.117	83	2988356	156.33	ug/L	99	D
47) Carbontetrachloride	4.641	121	4731	0.88	ug/L	93	
54) Trichloroethene	5.988	130	4751	0.39	ug/L	90	> JD
72) Tetrachloroethene	8.073	164	2721	0.26	ug/L	95	
85) Cyclohexanone	9.847	55	587	0.62	ug/L	86	NT
91) 1,2,3-Trichloropropane	10.061	110	680	0.22	ug/L	82	JD
109) Naphthalen	12.377	128	2051	0.58	ug/L	96	< LR

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : 1113429 2.5
 Data File : J:\ACQDATA\MSVOA10\DATA\070908\B1014.D Vial: 15
 Acq On : 9 Jul 2008 9:13 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

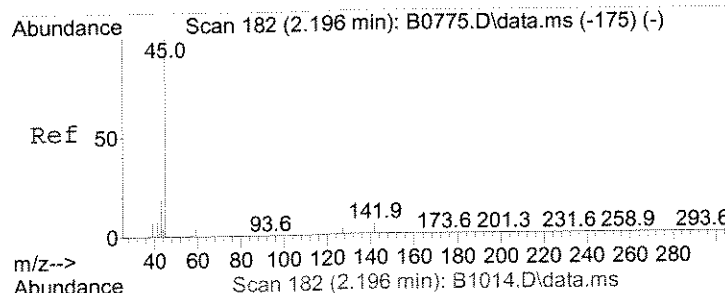
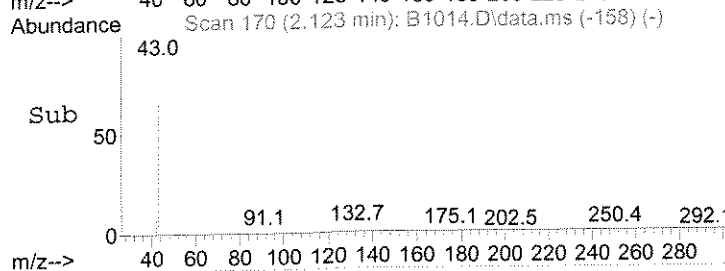
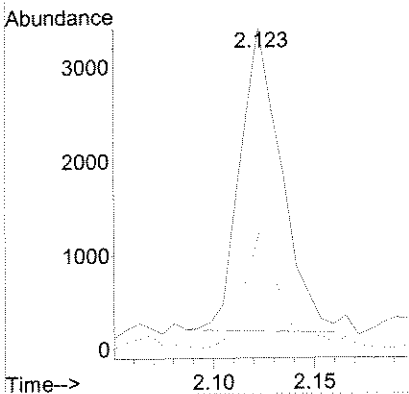
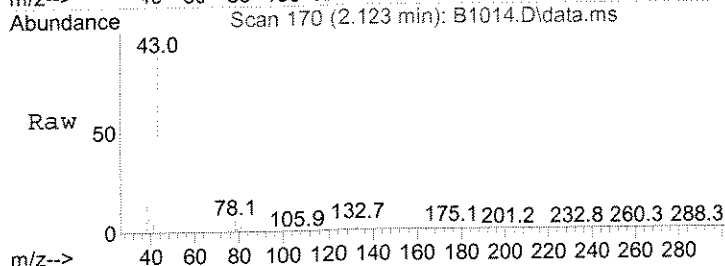
Quant Time: Jul 09 21:27:48 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





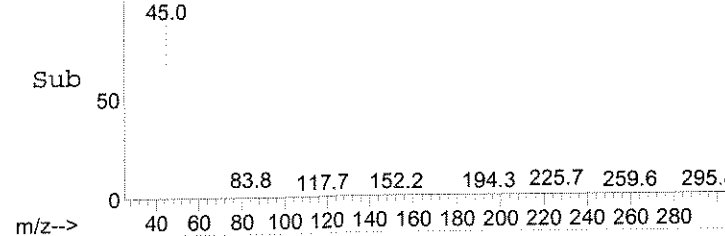
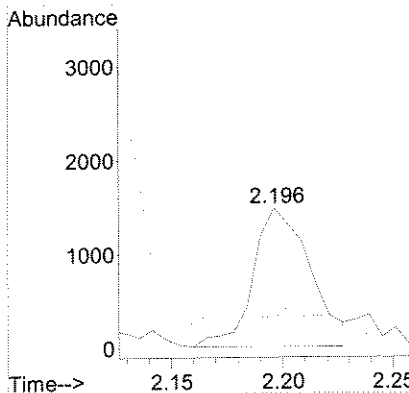
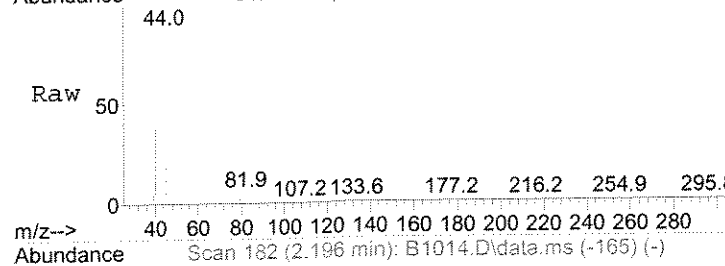
#16
 Acetone
 Concen: 2.83 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B1014.D
 Acq: 9 Jul 2008 9:13 pm

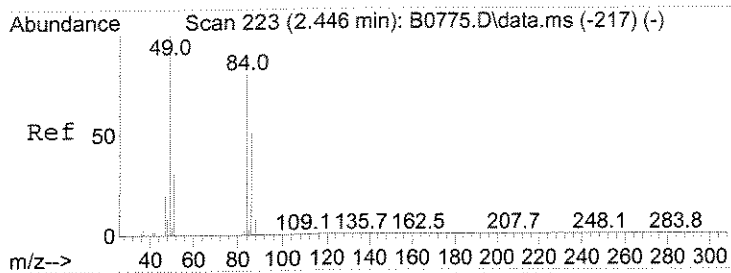
Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.8	0.9	60.9
42	13.9	0.0	37.2



#17
 2-Propanol
 Concen: 7.58 ug/L
 RT: 2.196 min Scan# 182
 Delta R.T. -0.006 min
 Lab File: B1014.D
 Acq: 9 Jul 2008 9:13 pm

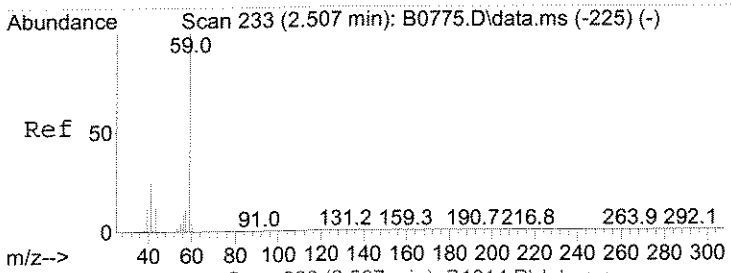
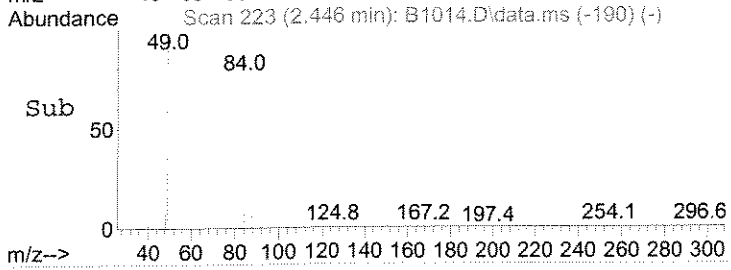
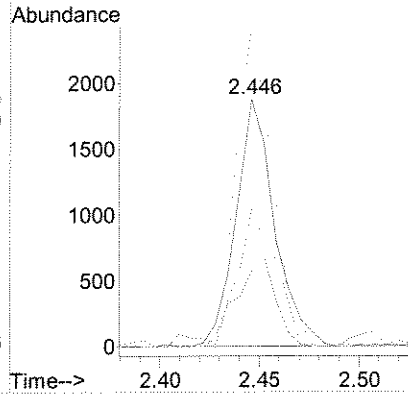
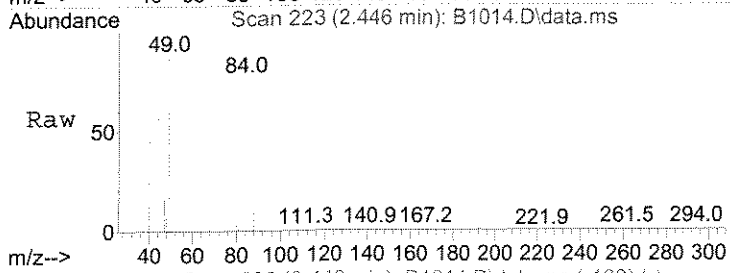
Tgt Ion	Ratio	Lower	Upper
45	100		
43	21.5	17.0	25.4





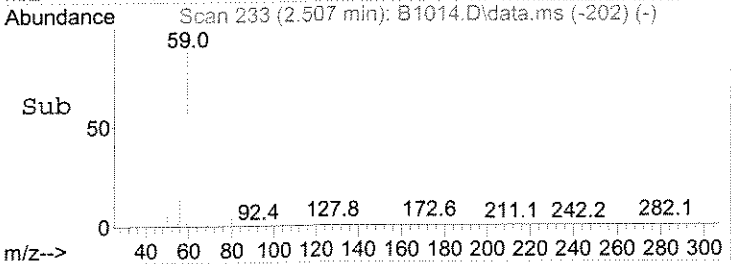
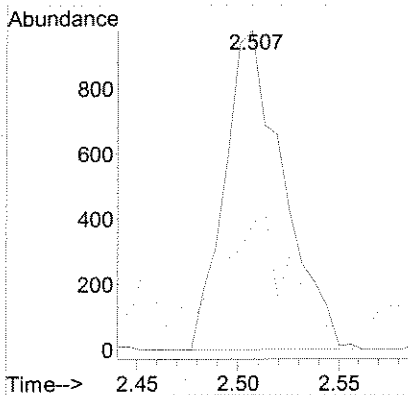
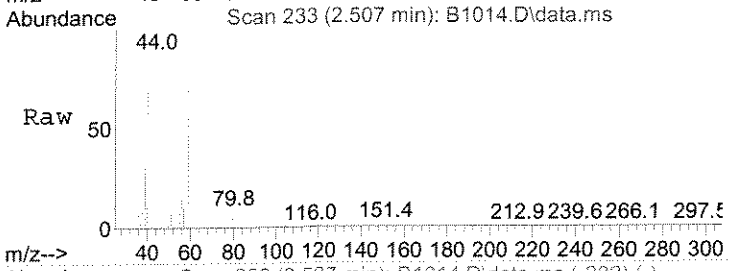
#23
 Methylene Chloride
 Concen: 0.23 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B1014.D
 Acq: 9 Jul 2008 9:13 pm

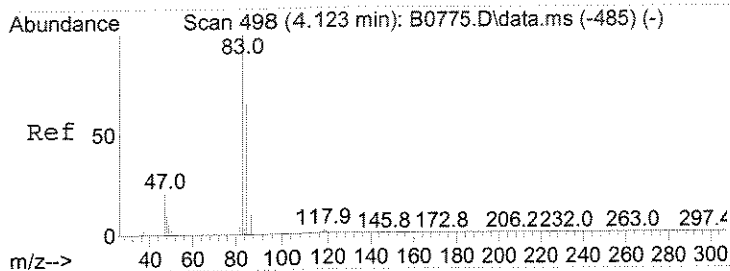
Tgt Ion	Ratio	Lower	Upper
84	100		
86	55.6	50.5	75.7
49	129.4	99.5	149.3
51	31.0	31.1	46.7#



#24
 TBA
 Concen: 3.60 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B1014.D
 Acq: 9 Jul 2008 9:13 pm

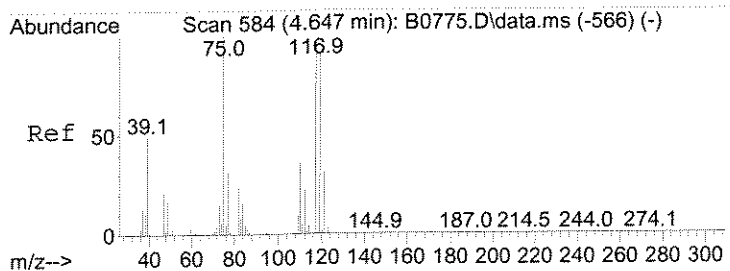
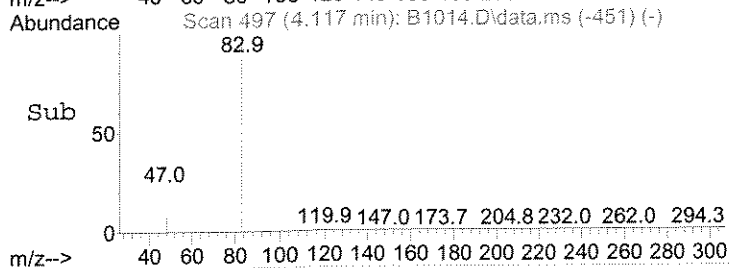
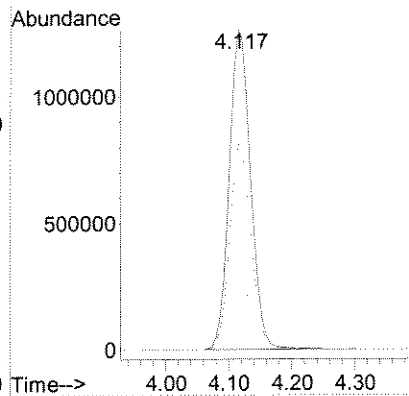
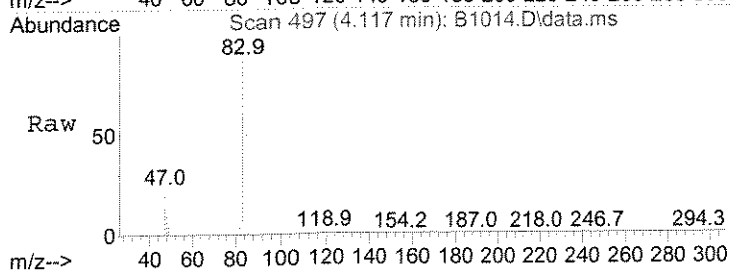
Tgt Ion	Ratio	Lower	Upper
59	100		
41	39.1	14.5	43.6





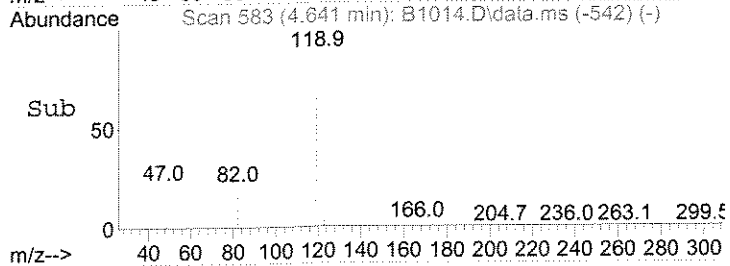
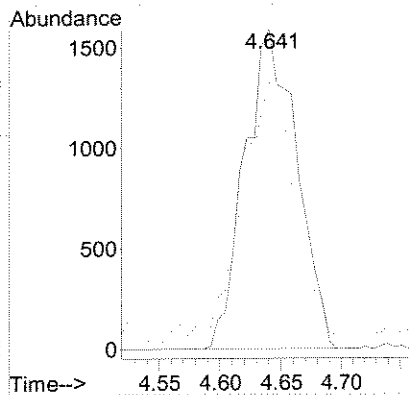
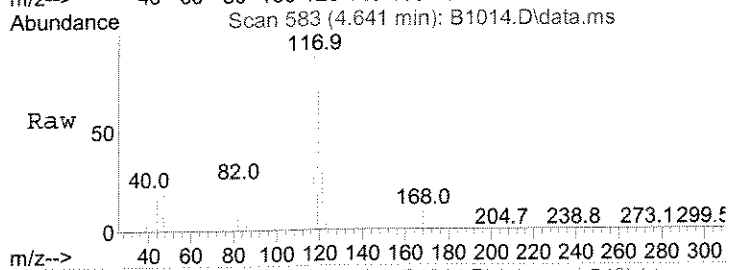
#41
 Chloroform
 Concen: 156.33 ug/L
 RT: 4.117 min Scan# 497
 Delta R.T. -0.006 min
 Lab File: B1014.D
 Acq: 9 Jul 2008 9:13 pm

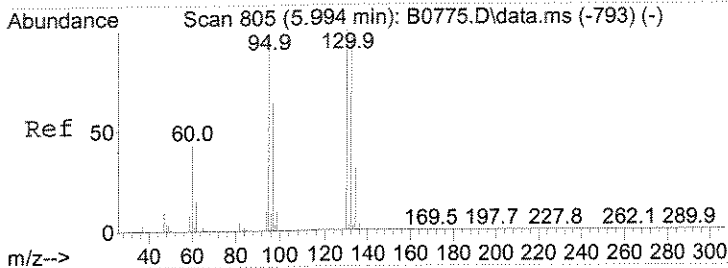
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.7	77.5
47	22.5	17.1	25.7



#47
 Carbontetrachloride
 Concen: 0.88 ug/L
 RT: 4.641 min Scan# 583
 Delta R.T. -0.000 min
 Lab File: B1014.D
 Acq: 9 Jul 2008 9:13 pm

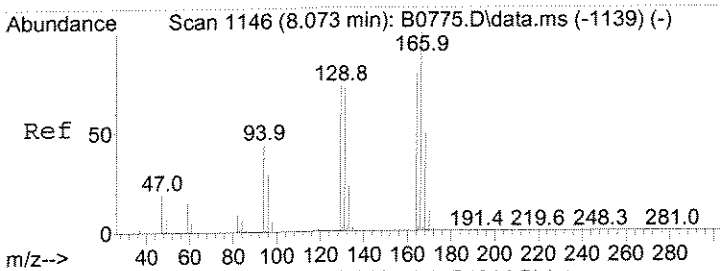
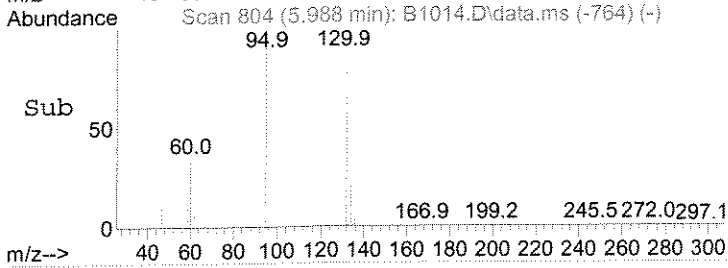
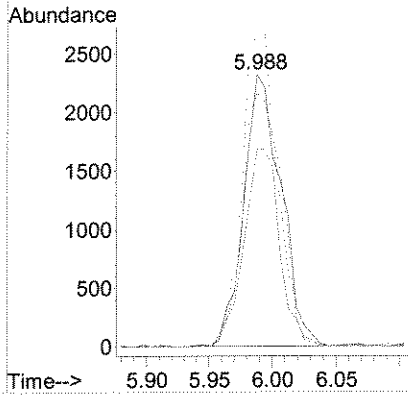
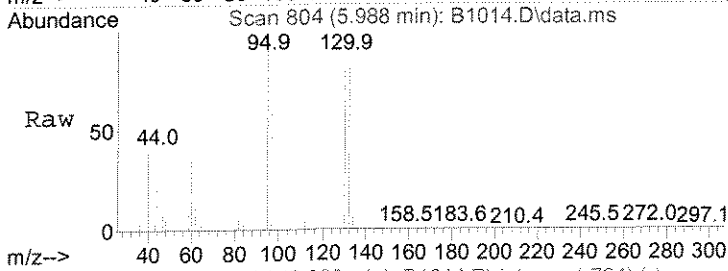
Tgt Ion	Ratio	Lower	Upper
121	100		
82	83.9	62.0	93.0





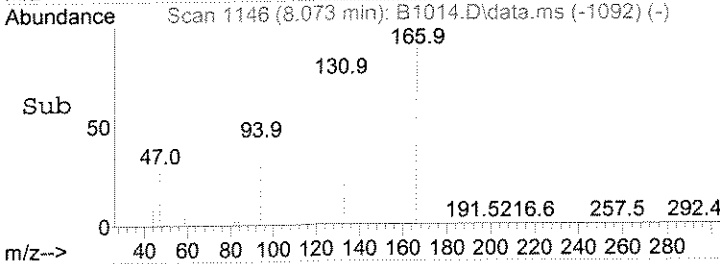
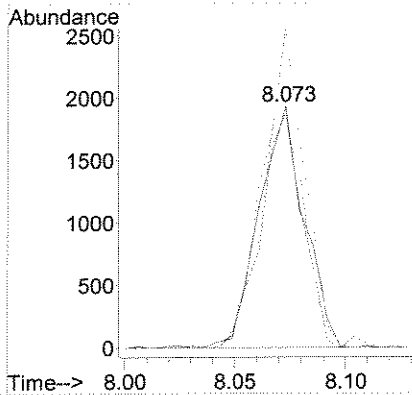
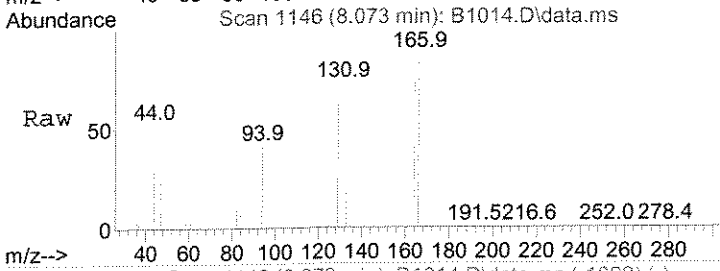
#54
 Trichloroethene
 Concen: 0.39 ug/L
 RT: 5.988 min Scan# 804
 Delta R.T. -0.006 min
 Lab File: B1014.D
 Acq: 9 Jul 2008 9:13 pm

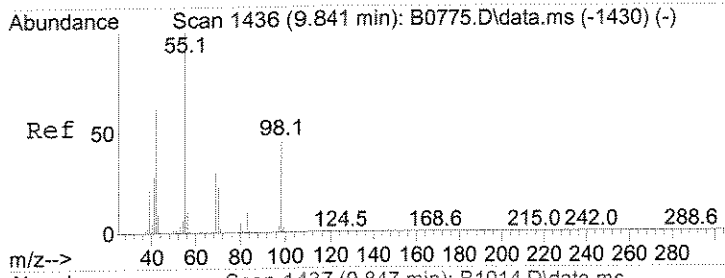
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	4751		
132	93.2		77.0	115.4
95	114.8		78.6	118.0
97	72.7		50.9	76.3



#72
 Tetrachloroethene
 Concen: 0.26 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B1014.D
 Acq: 9 Jul 2008 9:13 pm

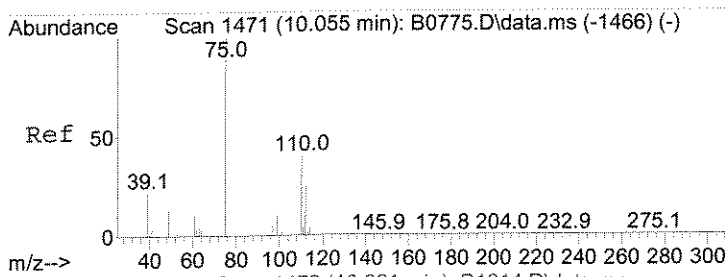
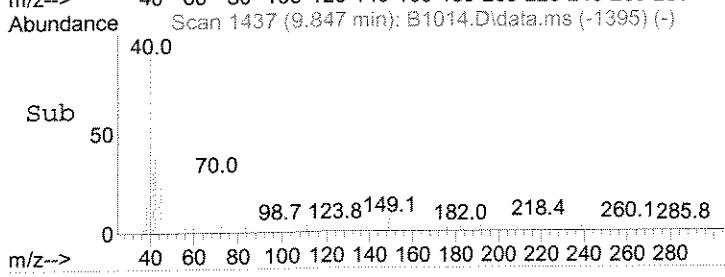
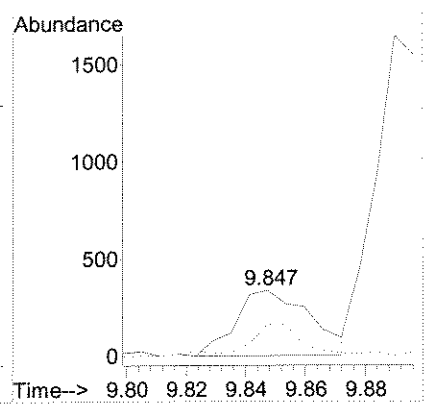
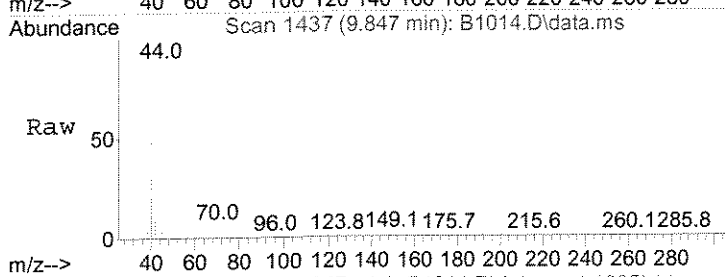
Tgt Ion	Ratio	Resp	Lower	Upper
164	100	2721		
166	132.5		101.5	152.3
129	88.5		73.8	110.6
131	96.9		72.9	109.3





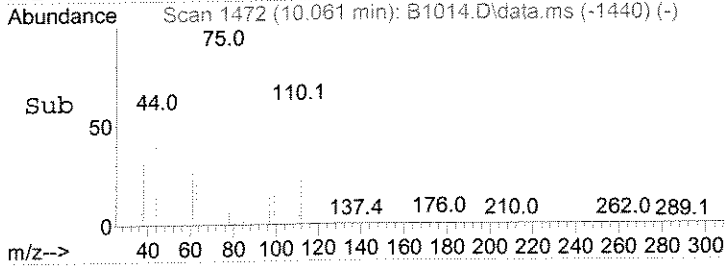
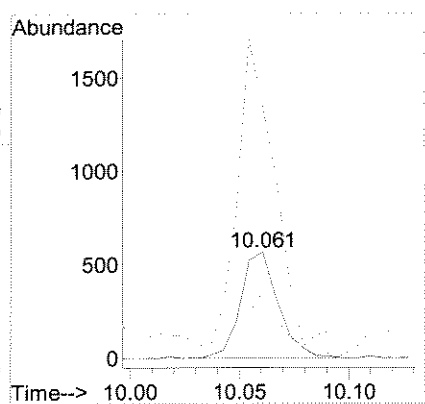
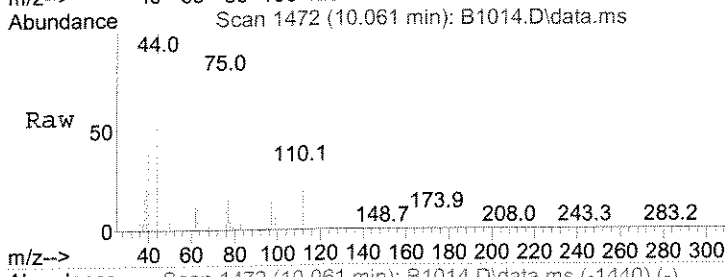
#85
 Cyclohexanone
 Concen: 0.62 ug/L
 RT: 9.847 min Scan# 1437
 Delta R.T. 0.006 min
 Lab File: B1014.D
 Acq: 9 Jul 2008 9:13 pm

Tgt Ion	Ratio	Lower	Upper
55	100		
42	51.0	49.3	73.9



#91
 1,2,3-Trichloropropane
 Concen: 0.22 ug/L
 RT: 10.061 min Scan# 1472
 Delta R.T. -0.000 min
 Lab File: B1014.D
 Acq: 9 Jul 2008 9:13 pm

Tgt Ion	Ratio	Lower	Upper
110	100		
75	239.2	224.9	337.3
112	62.8	50.0	75.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-68B

Date Sampled : 06/27/08 10:00 Order #: 1113430 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED		: 07/03/08	
ANALYTICAL DILUTION:		1.00	
ACETONE	20	1.5 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	0.48 J	UG/L
BROMOFORM	1.0	0.23 J	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	1.7 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	0.59 J	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	280 E	UG/L
CHLOROMETHANE	2.0	1.6 J	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	0.25 J	UG/L
1,4-DICHLOROBENZENE	2.0	0.42 J	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	0.24 J	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-68B

Date Sampled : 06/27/08 10:00 Order #: 1113430 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	0.26 J	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	0.69 J	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	0.25 J	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	99	%

Sample : 1113430 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0915.D Vial: 14
 Acq On : 3 Jul 2008 7:25 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

report?
 rpt. @ 1/2

Quant Time: Jul 03 19:39:51 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1326408	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2154305	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1990381	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1071808	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4, Dibromomethane	4.348	113	696866	49.31	ug/L	0.00	
Spiked Amount							
Recovery							98.62%
49) surr1, 1,2-dichloroetha...	4.891	65	736418	54.38	ug/L	0.00	
Spiked Amount							
Recovery							108.76%
65) SURR3, Toluene-d8	7.445	98	2556542	54.52	ug/L	0.00	
Spiked Amount							
Recovery							109.04%
70) SURR2, BFB	9.896	95	1035285	53.61	ug/L	0.00	
Spiked Amount							
Recovery							107.22%
Target Compounds							
4) Chloromethane	1.294	50	15708	1.59	ug/L		94 J
13) Acrolein	2.032	56	272	0.35	ug/L		67
14) 1,1-Dicethene	2.099	96	2123	0.24	ug/L #		69
16) Acetone	2.123	43	2422	1.48	ug/L		84 J
17) 2-Propanol	2.209	45	168	0.48	ug/L #		78
21) Allyl Chloride	2.276	76	2153	0.43	ug/L #		1
23) Methylene Chloride	2.446	84	2926	0.26	ug/L		86 J
24) TBA	2.507	59	944	1.71	ug/L #		5 SB
40) Tetrahydrofuran	4.123	42	9662	6.13	ug/L #		1
41) Chloroform	4.117	83	5343448	277.66	ug/L		99 E
47) Carbontetrachloride	4.647	121	3139	0.59	ug/L		83 J
59) Methyl Methacrylate	6.488	69	665	1.58	ug/L #		67 J
60) Bromodichloromethane	6.641	83	7430	0.48	ug/L #		94
72) Tetrachloroethene	8.073	164	6894	0.69	ug/L		94 J
83) Bromoform	9.616	173	1604	0.23	ug/L #		82
85) Cyclohexanone	9.890	55	2591	2.87	ug/L #		21
101) 1,4-Dclbenz	10.865	146	11598	0.42	ug/L #		82
104) 1,2-Dclbenz	11.164	146	6380	0.25	ug/L		96 J
107) 1,2,4-Tcbenzene	12.237	180	4411	0.25	ug/L #		88
109) Naphthalen	12.377	128	725	0.55	ug/L #		75 LR

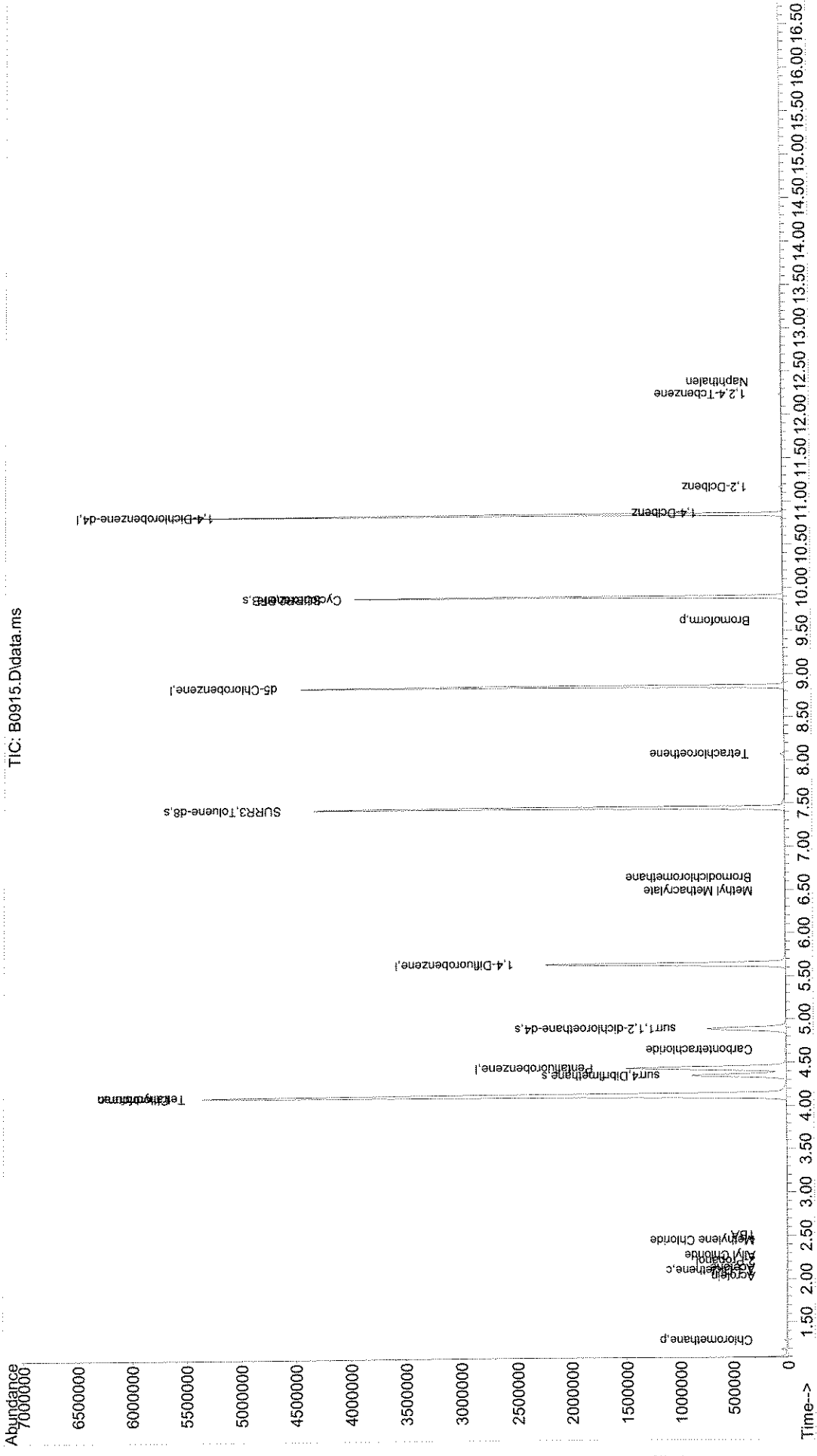
(#) = qualifier out of range (m) = manual integration (+) = signals summed

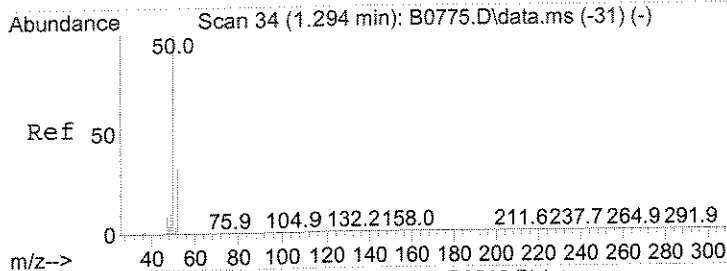
RPT 1/2

FD
 7/1/08

Sample : 1113430 1.0 Vial: 14
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0915.D
 Acq On : 3 Jul 2008 7:25 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

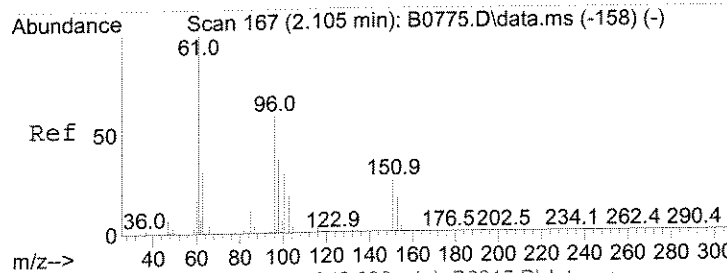
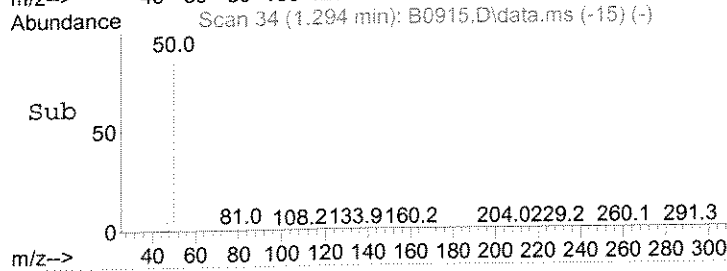
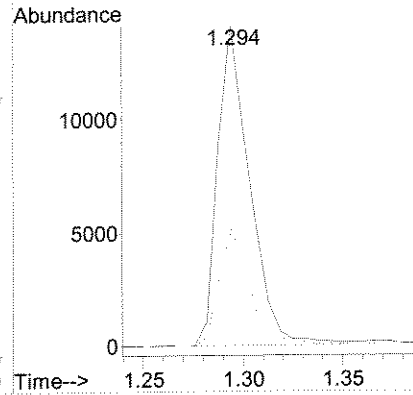
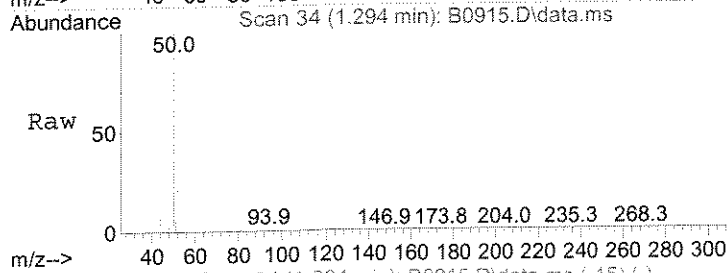
Quant Time: Jul 03 19:39:51 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





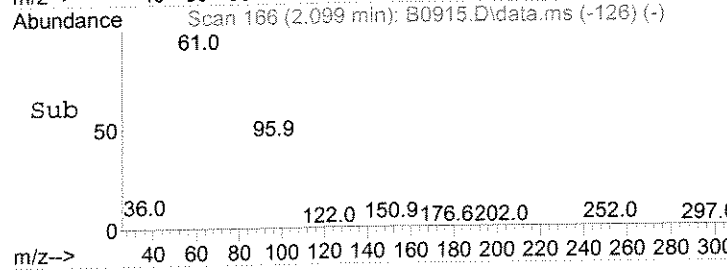
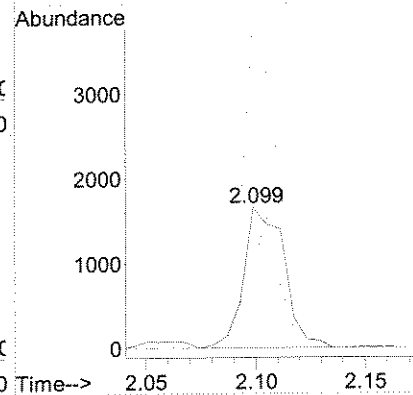
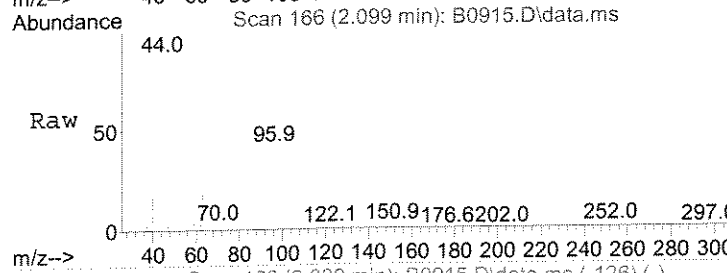
#4
 Chloromethane
 Concen: 1.59 ug/L
 RT: 1.294 min Scan# 34
 Delta R.T. -0.000 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

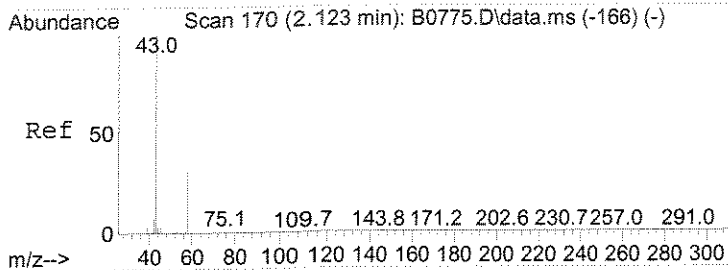
Tgt Ion	Resp	Lower	Upper
50	15708		
52	36.5	3.1	63.1



#14
 1,1-Diclcethene
 Concen: 0.24 ug/L
 RT: 2.099 min Scan# 166
 Delta R.T. -0.006 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

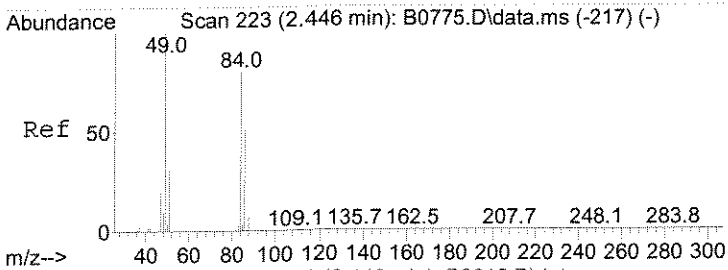
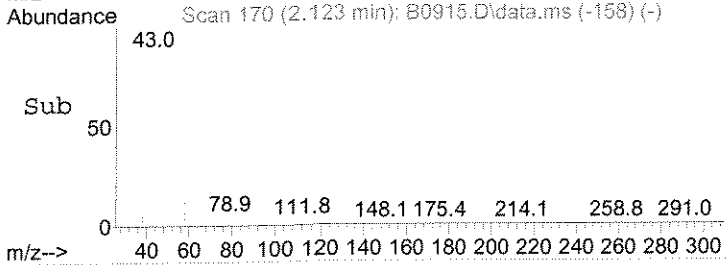
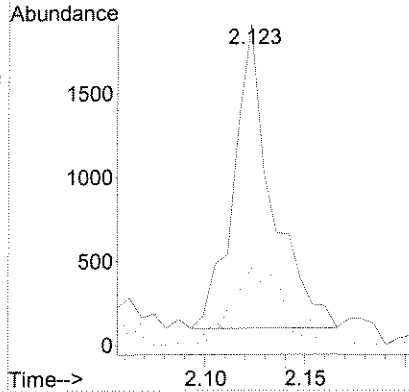
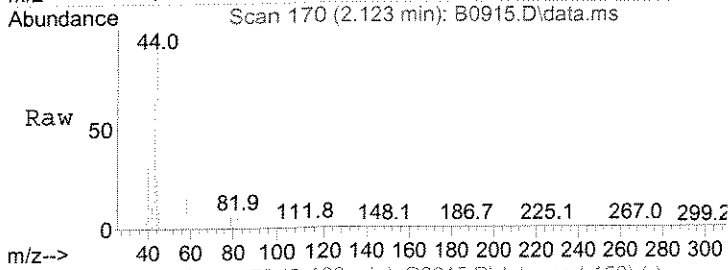
Tgt Ion	Resp	Lower	Upper
96	2123		
98	59.8	33.7	93.7
61	227.5	140.7	200.7#





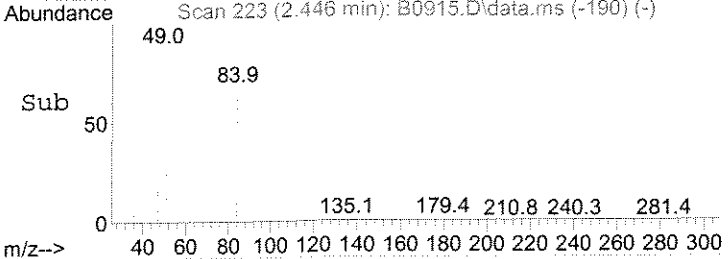
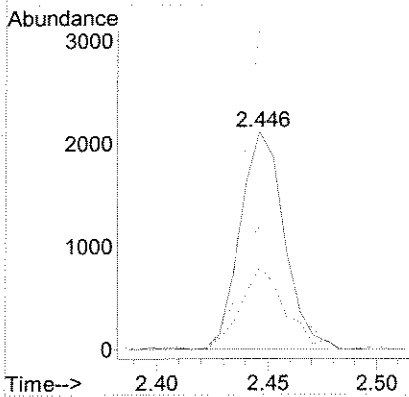
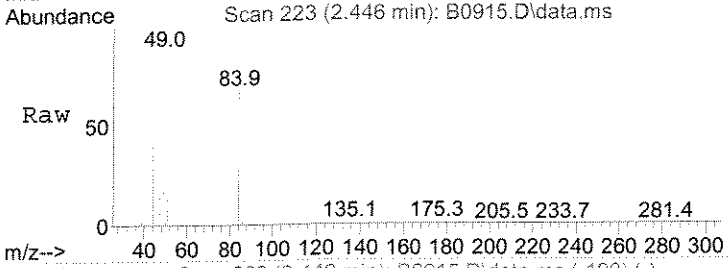
#16
 Acetone
 Concen: 1.48 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

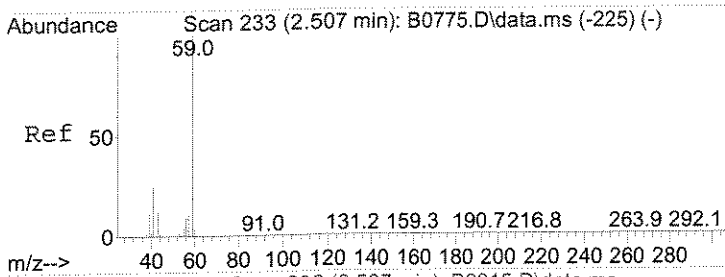
Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.4	0.9	60.9
42	19.8	0.0	37.2



#23
 Methylene Chloride
 Concen: 0.26 ug/L
 RT: 2.446 min Scan# 223
 Delta R.T. -0.000 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

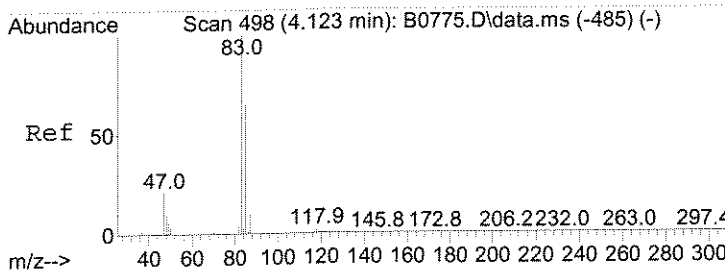
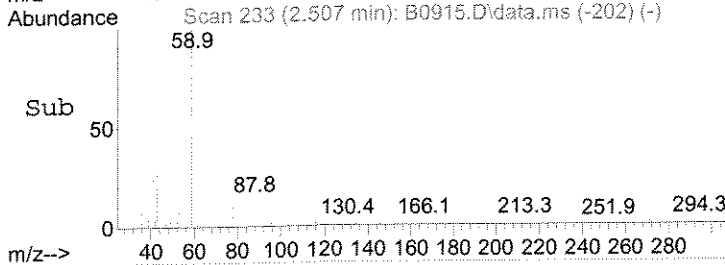
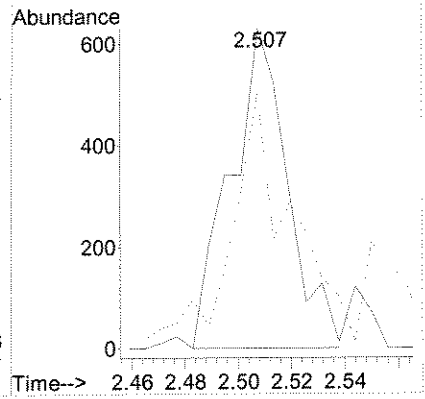
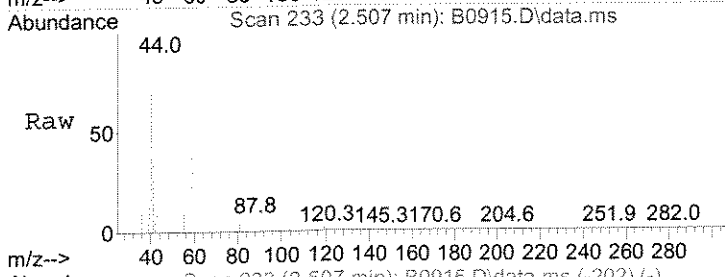
Tgt Ion	Ratio	Lower	Upper
84	100		
86	56.5	50.5	75.7
49	146.9	99.5	149.3
51	37.9	31.1	46.7





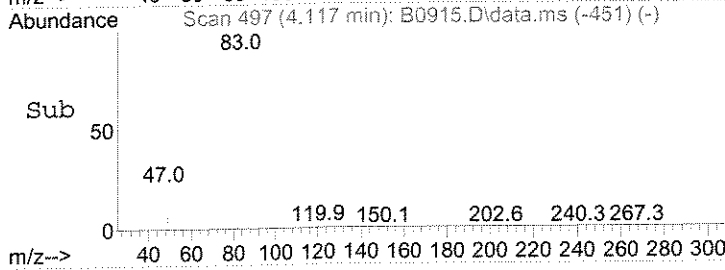
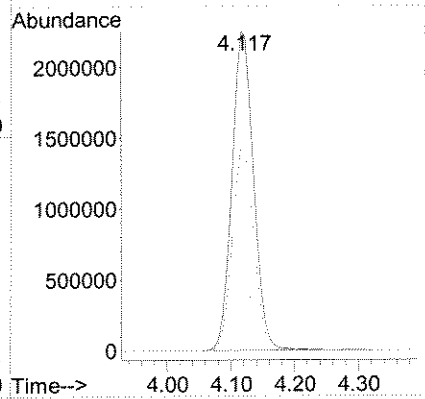
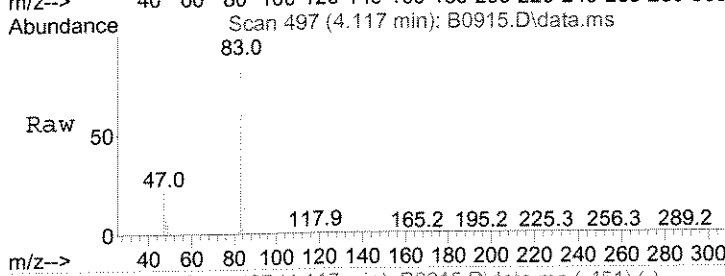
#24
 TBA
 Concen: 1.71 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

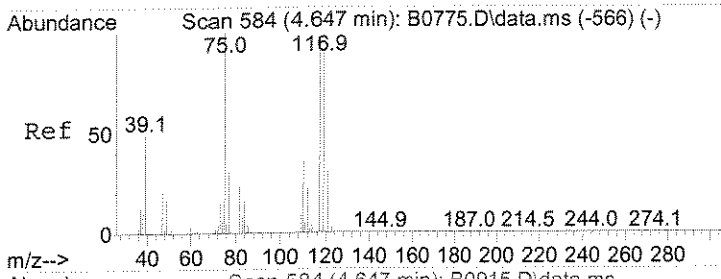
Tgt Ion	Resp	Lower	Upper
59	100		
41	79.9	14.5	43.6#



#41
 Chloroform
 Concen: 277.66 ug/L
 RT: 4.117 min Scan# 497
 Delta R.T. -0.006 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

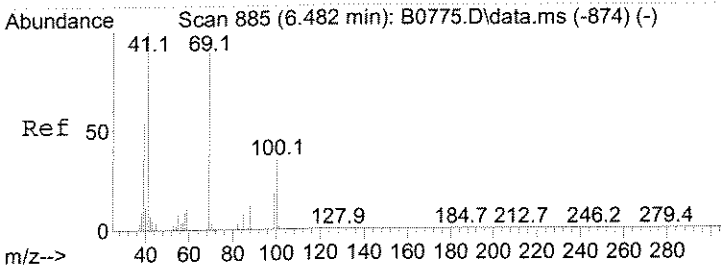
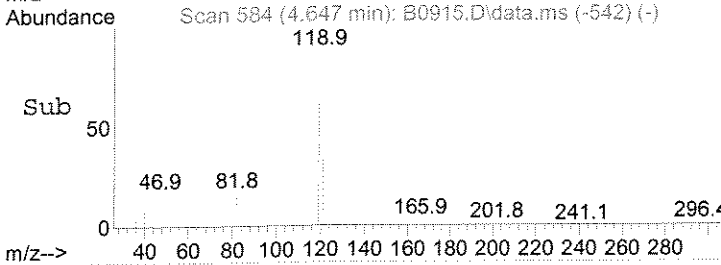
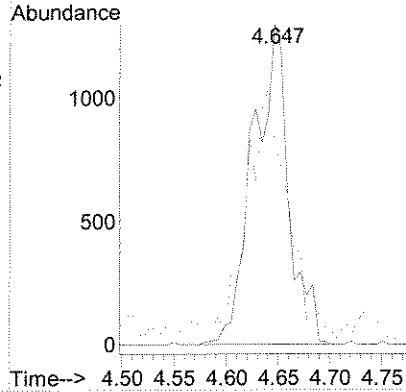
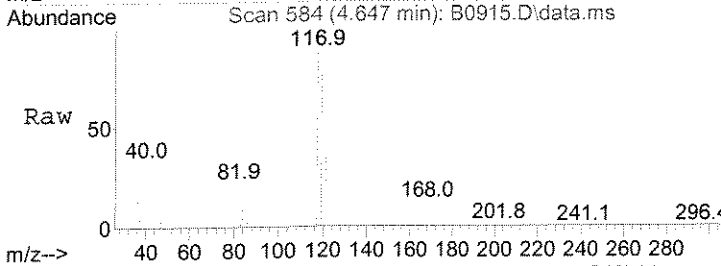
Tgt Ion	Resp	Lower	Upper
83	100		
85	64.1	51.7	77.5
47	21.9	17.1	25.7





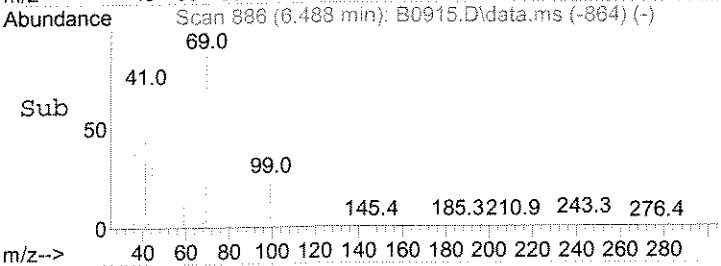
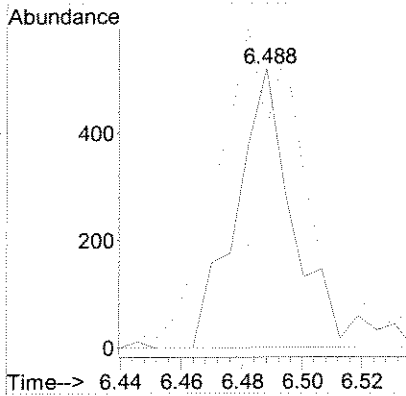
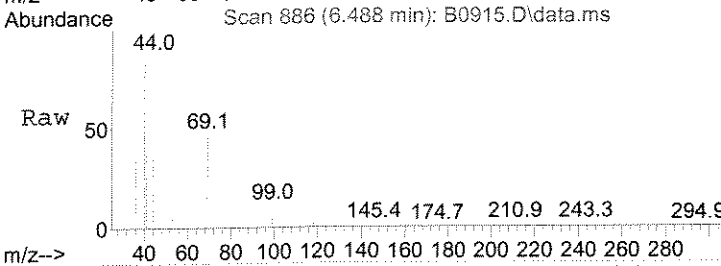
#47
 Carbontetrachloride
 Concen: 0.59 ug/L
 RT: 4.647 min Scan# 584
 Delta R.T. 0.006 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

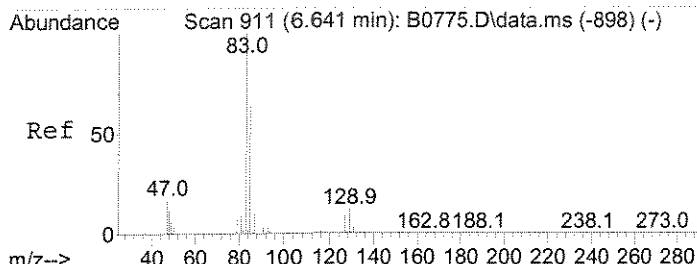
Tgt Ion	Ratio	Lower	Upper
121	100		
82	62.7	62.0	93.0



#59
 Methyl Methacrylate
 Concen: 1.58 ug/L
 RT: 6.488 min Scan# 886
 Delta R.T. 0.006 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

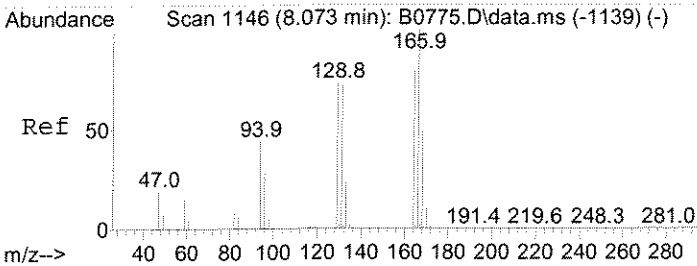
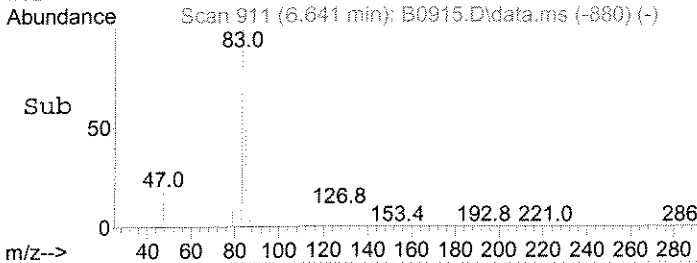
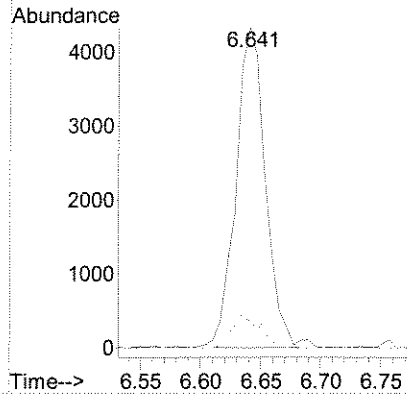
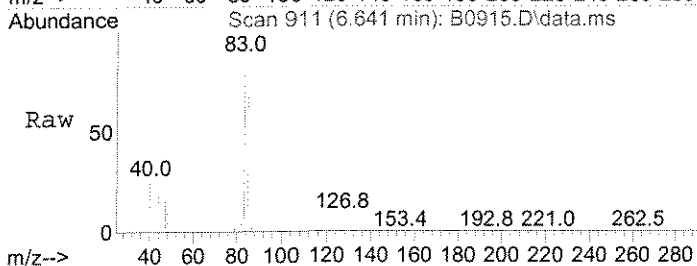
Tgt Ion	Ratio	Lower	Upper
69	100		
41	79.3	90.3	135.5#
100	17.3	31.9	47.9#





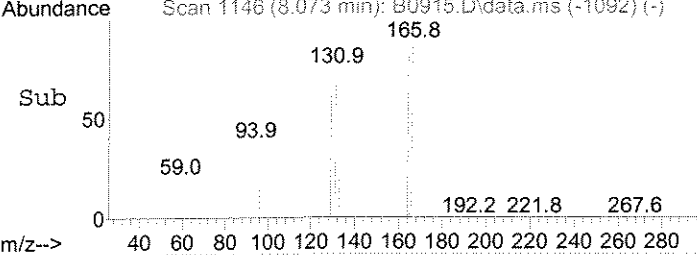
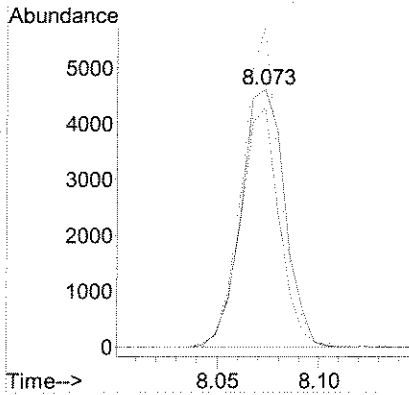
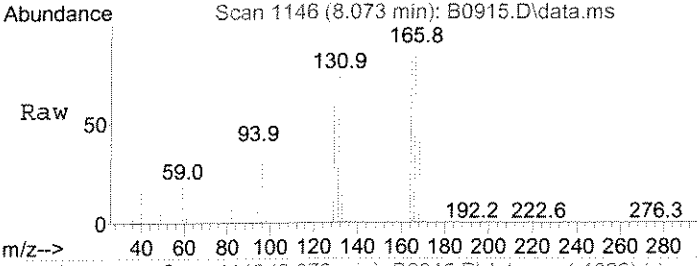
#60
 Bromodichloromethane
 Concen: 0.48 ug/L
 RT: 6.641 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

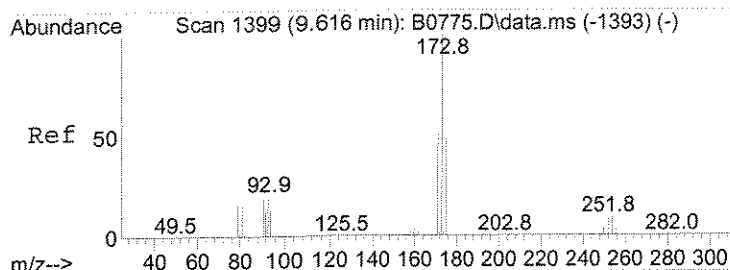
Tgt Ion	Resp	Lower	Upper
83	100		
129	8.0	9.5	14.3#
127	9.3	7.2	10.8



#72
 Tetrachloroethene
 Concen: 0.69 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. -0.000 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

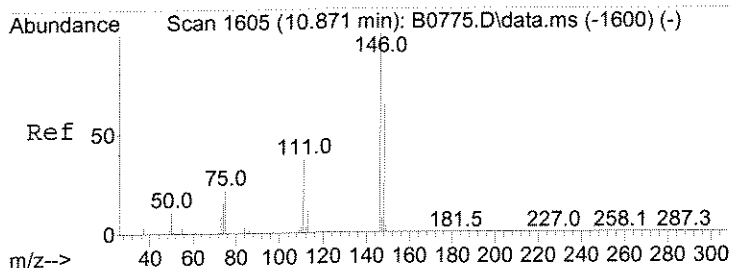
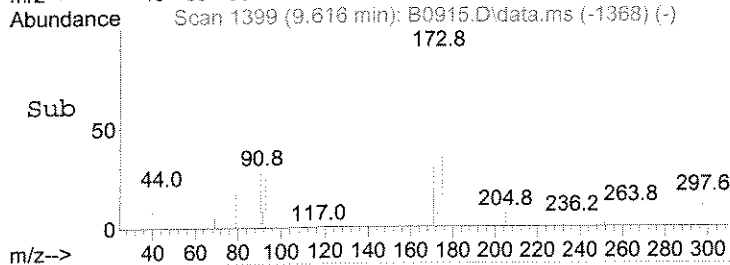
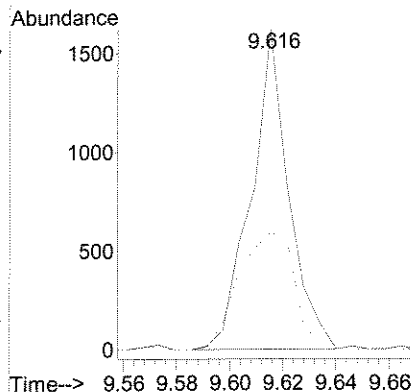
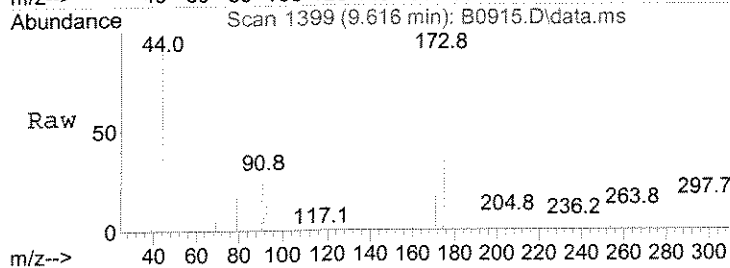
Tgt Ion	Resp	Lower	Upper
164	100		
166	123.9	101.5	152.3
129	77.2	73.8	110.6
131	92.9	72.9	109.3





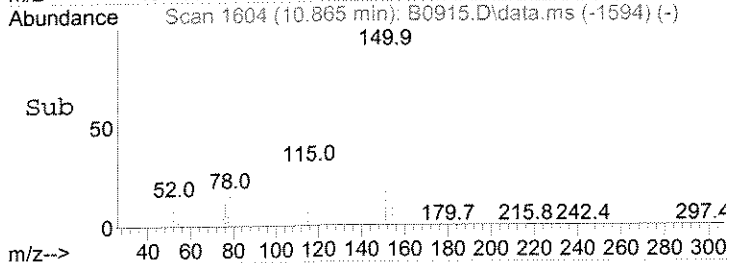
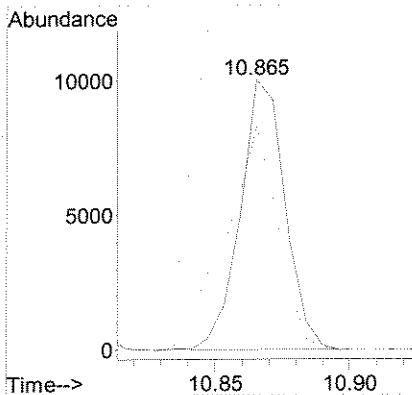
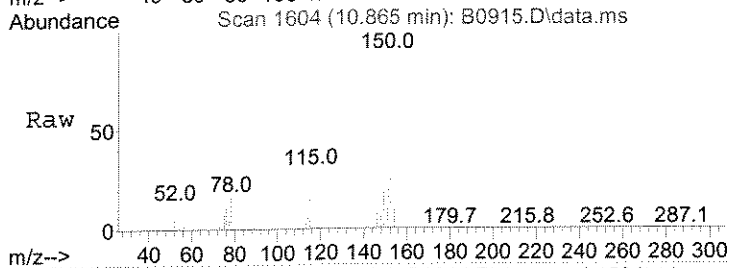
#83
 Bromoform
 Concen: 0.23 ug/L
 RT: 9.616 min Scan# 1399
 Delta R.T. -0.000 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

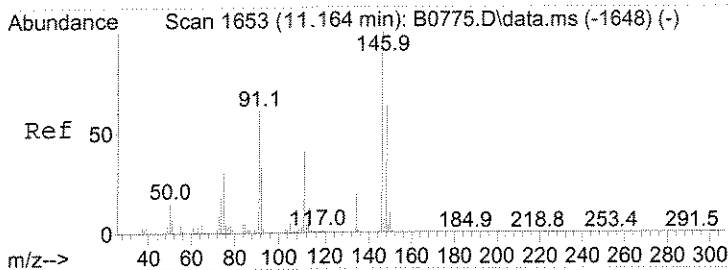
Tgt Ion	Ratio	Lower	Upper
173	100		
175	36.6	39.4	59.0#



#101
 1,4-Diclbz
 Concen: 0.42 ug/L
 RT: 10.865 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

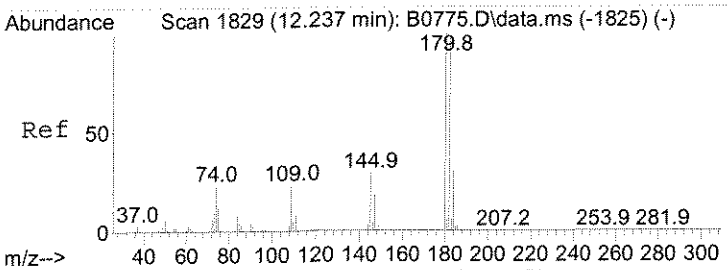
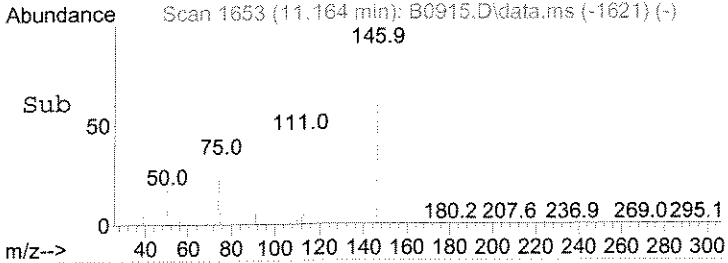
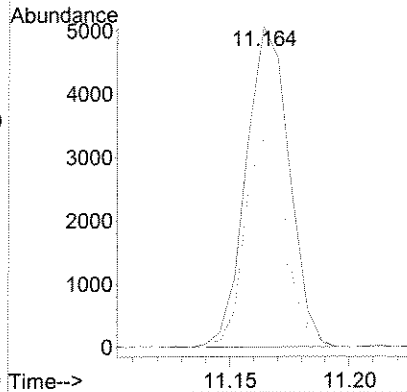
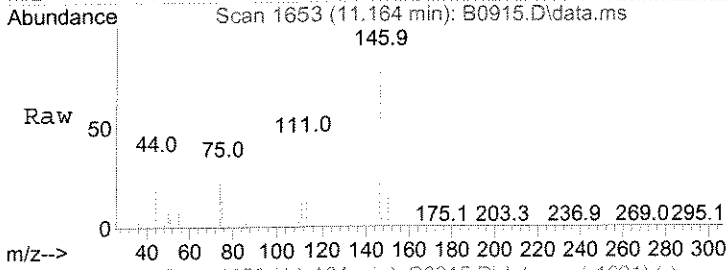
Tgt Ion	Ratio	Lower	Upper
146	100		
148	82.8	51.2	76.8#
111	42.6	30.0	45.0





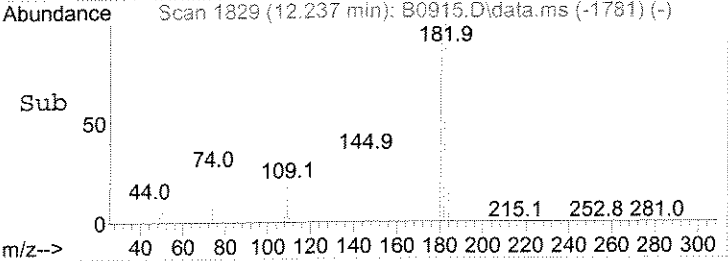
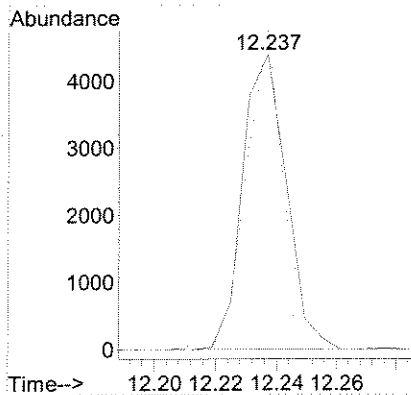
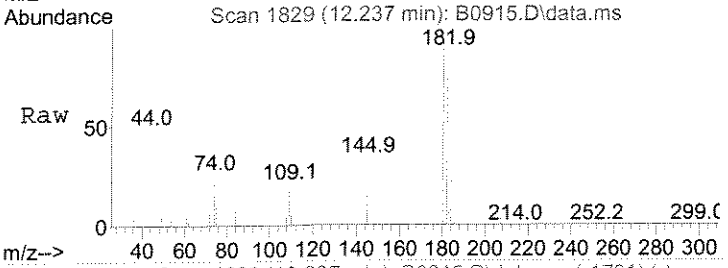
#104
 1,2-Dclbenz
 Concen: 0.25 ug/L
 RT: 11.164 min Scan# 1653
 Delta R.T. -0.000 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

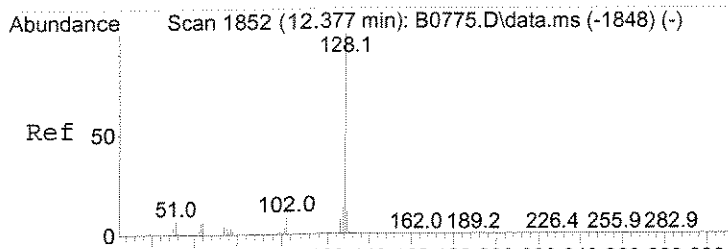
Tgt Ion	Ratio	Lower	Upper
146	100		
148	65.1	50.3	75.5
111	44.9	33.0	49.4



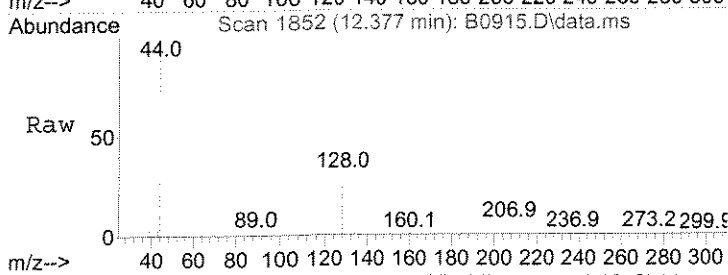
#107
 1,2,4-Tcbenzene
 Concen: 0.25 ug/L
 RT: 12.237 min Scan# 1829
 Delta R.T. -0.000 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	108.4	77.8	116.6
145	37.3	23.2	34.8#

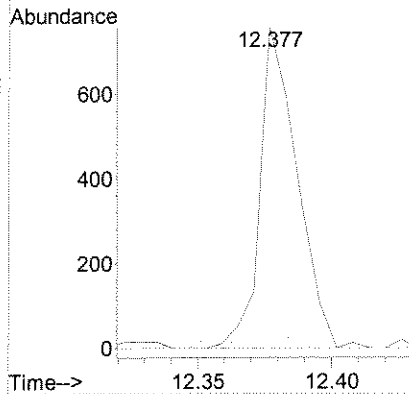
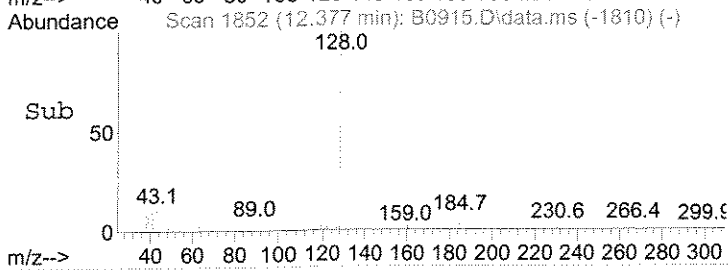




#109
 Naphthalen
 Concen: 0.55 ug/L
 RT: 12.377 min Scan# 1852
 Delta R.T. 0.000 min
 Lab File: B0915.D
 Acq: 3 Jul 2008 7:25 pm



Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0#
102	2.9	6.9	10.3#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-68B

Date Sampled : 06/27/08 10:00 Order #: 1113430 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/10/08		
ANALYTICAL DILUTION:	2.00		
ACETONE	20	4.5 JD	UG/L
BENZENE	1.0	2.0 U	UG/L
BROMOBENZENE	2.0	4.0 U	UG/L
BROMOCHLOROMETHANE	2.0	4.0 U	UG/L
BROMODICHLOROMETHANE	1.0	2.0 U	UG/L
BROMOFORM	1.0	2.0 U	UG/L
BROMOMETHANE	2.0	4.0 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
TERT-BUTYL ALCOHOL	100	4.0 JD	UG/L
METHYL-TERT-BUTYL ETHER	1.0	2.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	2.0 U	UG/L
TERT-BUTYLBENZENE	2.0	4.0 U	UG/L
SEC-BUTYLBENZENE	2.0	4.0 U	UG/L
N-BUTYLBENZENE	5.0	10 U	UG/L
CARBON TETRACHLORIDE	1.0	2.0 U	UG/L
CHLOROBENZENE	1.0	2.0 U	UG/L
CHLOROETHANE	2.0	4.0 U	UG/L
CHLOROFORM	1.0	190 D	UG/L
CHLOROMETHANE	2.0	0.90 JD	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	10 U	UG/L
2-CHLOROTOLUENE	5.0	10 U	UG/L
4-CHLOROTOLUENE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	1.0	2.0 U	UG/L
1,2-DIBROMOETHANE	1.0	2.0 U	UG/L
DIBROMOMETHANE	1.0	2.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	4.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	0.46 JD	UG/L
1,3-DICHLOROBENZENE	2.0	4.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	2.0 U	UG/L
1,1-DICHLOROETHANE	1.0	2.0 U	UG/L
1,2-DICHLOROETHANE	1.0	2.0 U	UG/L
1,1-DICHLOROETHENE	1.0	2.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	2.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	2.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	4.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	2.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	4.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	4.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	2.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	2.0 U	UG/L
ETHYLBENZENE	1.0	2.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	0.44 JD	UG/L
2-HEXANONE	10	20 U	UG/L
DI-ISOPROPYL ETHER	1.0	2.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-68B

Date Sampled : 06/27/08 10:00 Order #: 1113430 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/10/08		
ANALYTICAL DILUTION:	2.00		
ISOPROPYLBENZENE	2.0	4.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	4.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	2.0 U	UG/L
METHYLENE CHLORIDE	2.0	4.0 U	UG/L
NAPHTHALENE	2.0	4.0 U	UG/L
4-METHYL-2-PENTANONE	10	20 U	UG/L
N-PROPYLBENZENE	2.0	4.0 U	UG/L
STYRENE	1.0	2.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	2.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	2.0 U	UG/L
TETRACHLOROETHENE	1.0	0.44 JD	UG/L
TOLUENE	1.0	2.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	0.42 JD	UG/L
1,2,3-TRICHLOROBENZENE	2.0	4.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	2.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	2.0 U	UG/L
TRICHLOROETHENE	1.0	2.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	2.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	4.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	4.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	4.0 U	UG/L
VINYL CHLORIDE	1.0	2.0 U	UG/L
M+P-XYLENE	2.0	4.0 U	UG/L
O-XYLENE	1.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	108	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Sample : 1113430 2.0
 Data File : J:\ACQUADATA\MSVOA10\DATA\071008\B1041.D Vial: 17
 Acq On : 10 Jul 2008 10:09 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44560 8260B.DODO

ES

DL

Quant Time: Jul 10 22:23:22 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.440	168	1379458	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2250755	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2134136	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1147721	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4, Dibromomethane	4.348	113	708496	47.55	ug/L	0.00	
Spiked Amount	50.000						Recovery = 95.10%
49) surr1, 1,2-dichloroetha...	4.891	65	654316	46.25	ug/L	0.00	
Spiked Amount	50.000						Recovery = 92.50%
65) SURR3, Toluene-d8	7.445	98	2652242	54.13	ug/L	0.00	
Spiked Amount	50.000						Recovery = 108.26%
70) SURR2, BFB	9.896	95	1092801	54.16	ug/L	0.00	
Spiked Amount	50.000						Recovery = 108.32%
Target Compounds							
4) Chloromethane	1.294	50	4591	0.45	ug/L	97	> JD
16) Acetone	2.123	43	3823	2.25	ug/L	82	
21) Allyl Chloride	2.276	76	2423	0.47	ug/L	1	
24) TBA	2.514	59	1143 991 1.97	1.73	ug/L	# 13	JD
40) Tetrahydrofuran	4.123	42	3930	2.40	ug/L	1	
41) Chloroform	4.117	83	1936096	96.74	ug/L	98	D
59) Methyl Methacrylate	6.482	69	430	1.53	ug/L	63	
72) Tetrachloroethene	8.073	164	2336	0.22	ug/L	# 87	JD
85) Cyclohexanone	9.841	55	484	0.50	ug/L	54	
101) 1,4-Dclbenz	10.866	146	6912	0.23	ug/L	# 74	
107) 1,2,4-Tc benzene	12.237	180	3991	0.21	ug/L	# 83	> JD
108) Hexachlorobt	12.335	225	1629	0.22	ug/L	# 84	
109) Naphthalen	12.384	128	2940	0.60	ug/L	93	< LR

(#) = qualifier out of range (m) = manual integration (+) = signals summed

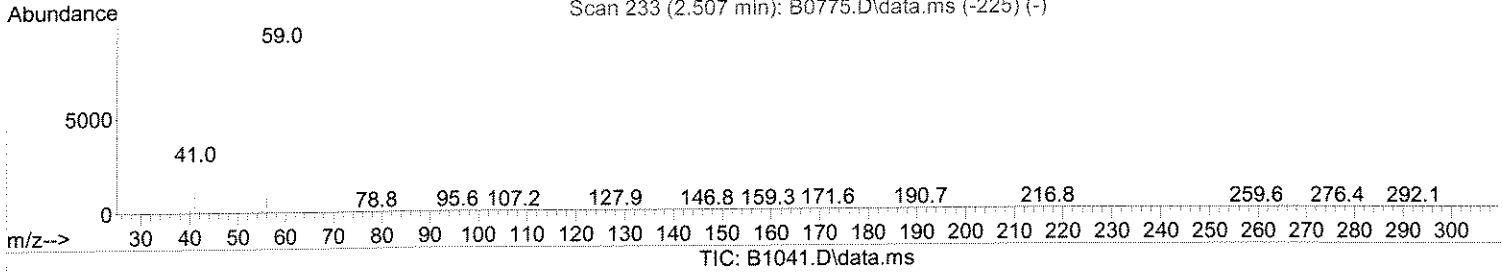
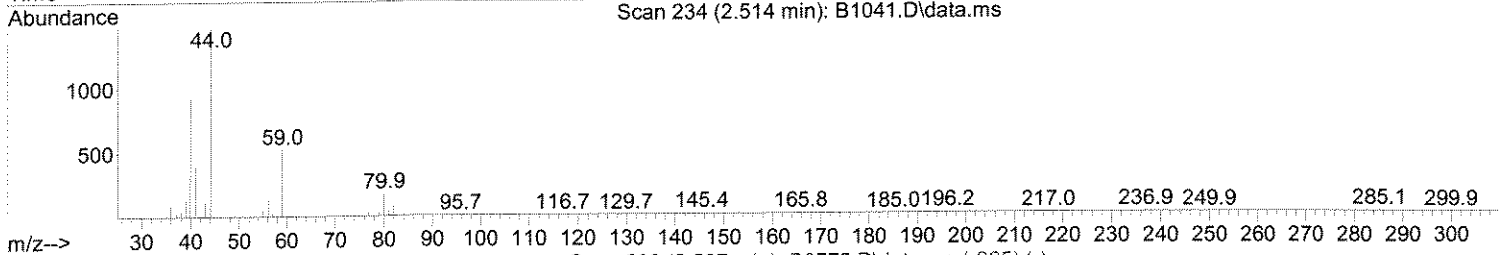
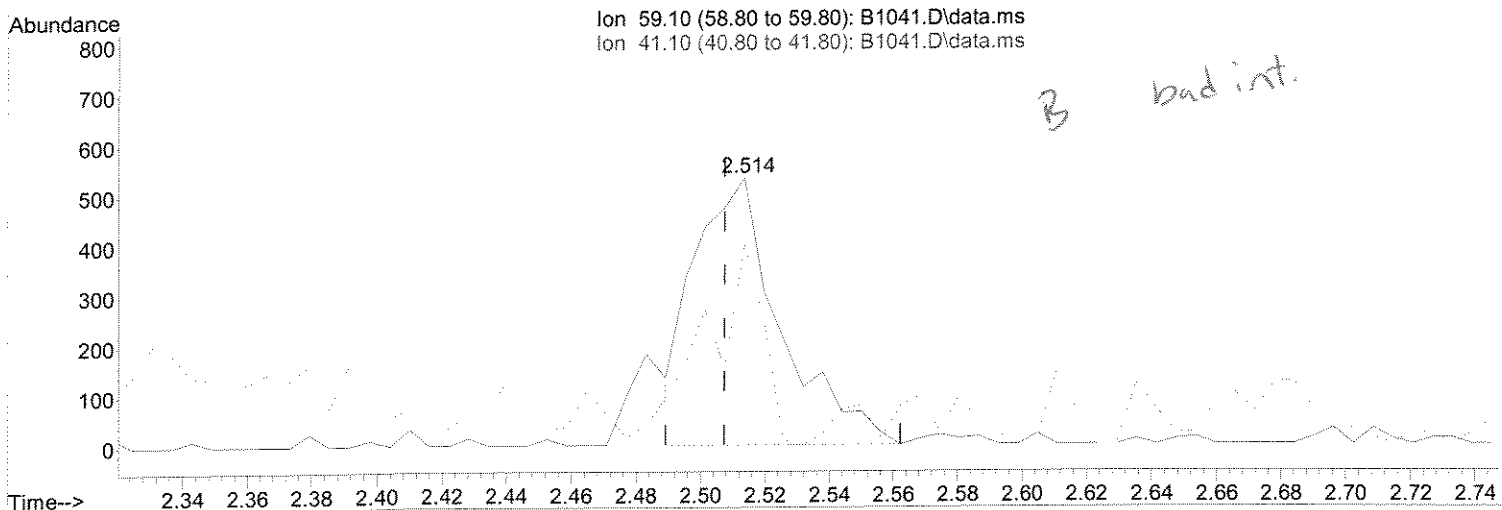
FU
7/17/08

Quantitation Report (Qedit)

Sample : 1113430 2.0
Data File : J:\ACQUDATA\msvoa10\data\071008\B1041.D Vial: 17
Acq On : 10 Jul 2008 10:09 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44560 8260B.DODO

Quant Time: Jul 10 22:23:22 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

FW 7/18/08



(24) TBA

2.514min (+0.006) 1.73 ug/L

response 991

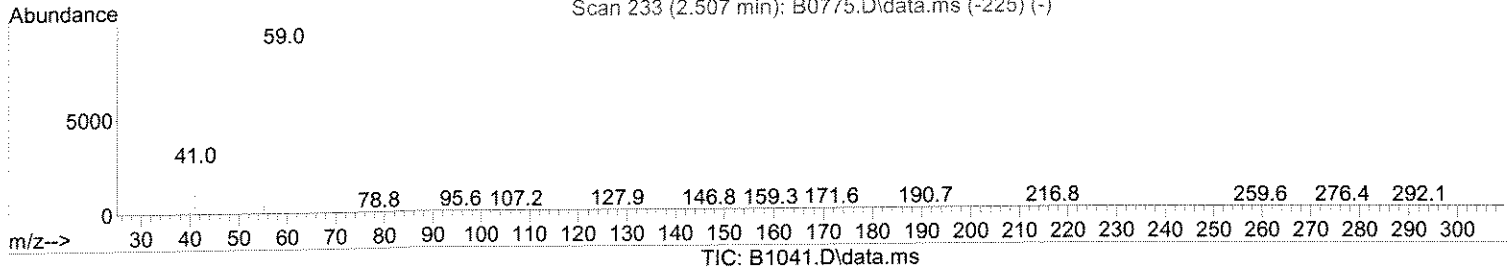
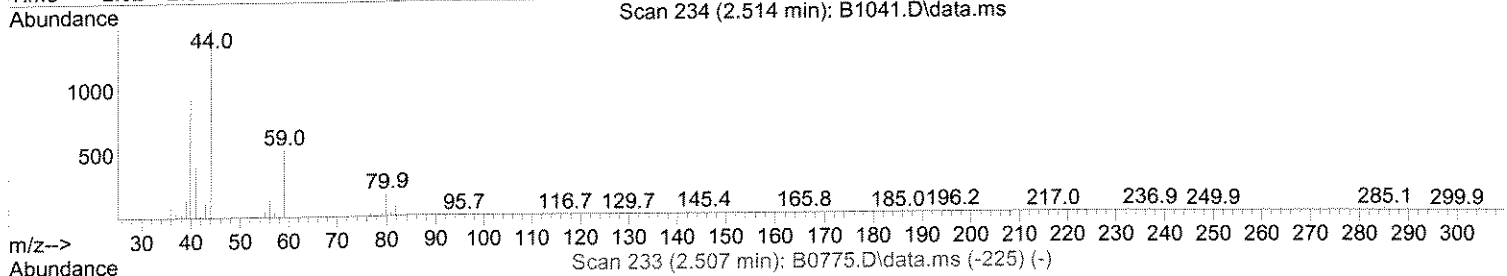
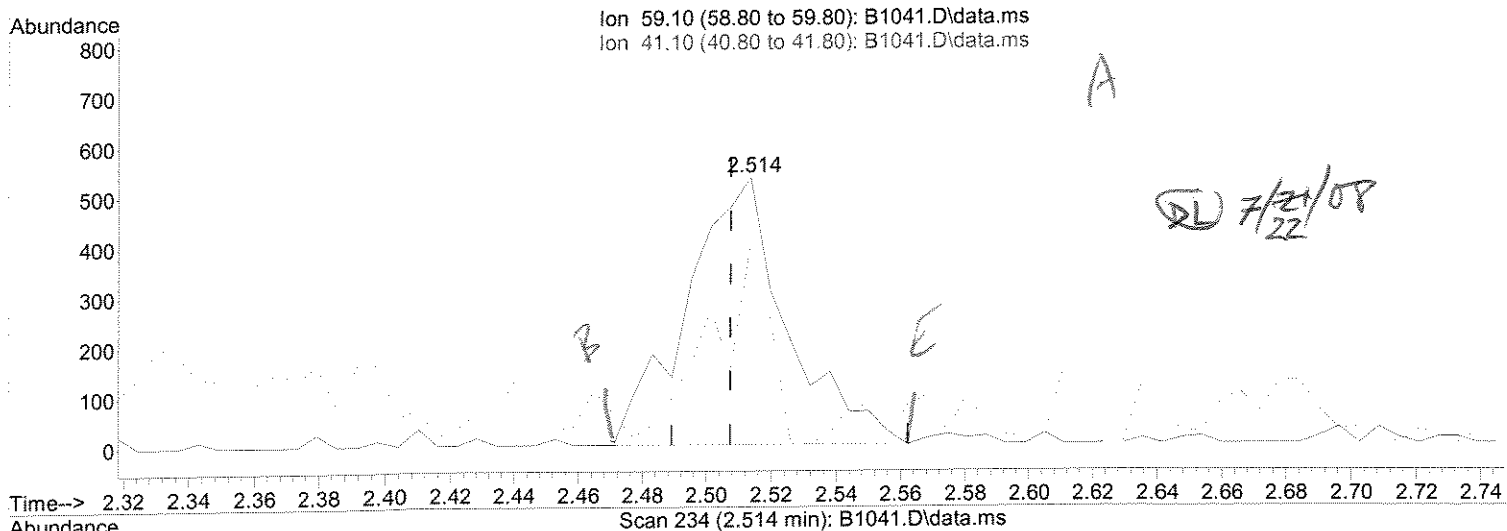
Ion	Exp%	Act%
59.10	100	100
41.10	29.10	75.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 1113430 2.0
 Data File : J:\ACQUDATA\msvoa10\data\071008\B1041.D Vial: 17
 Acq On : 10 Jul 2008 10:09 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44560 8260B.DODO

Quant Time: Jul 10 22:23:22 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FN 7/18/08



(24) TBA

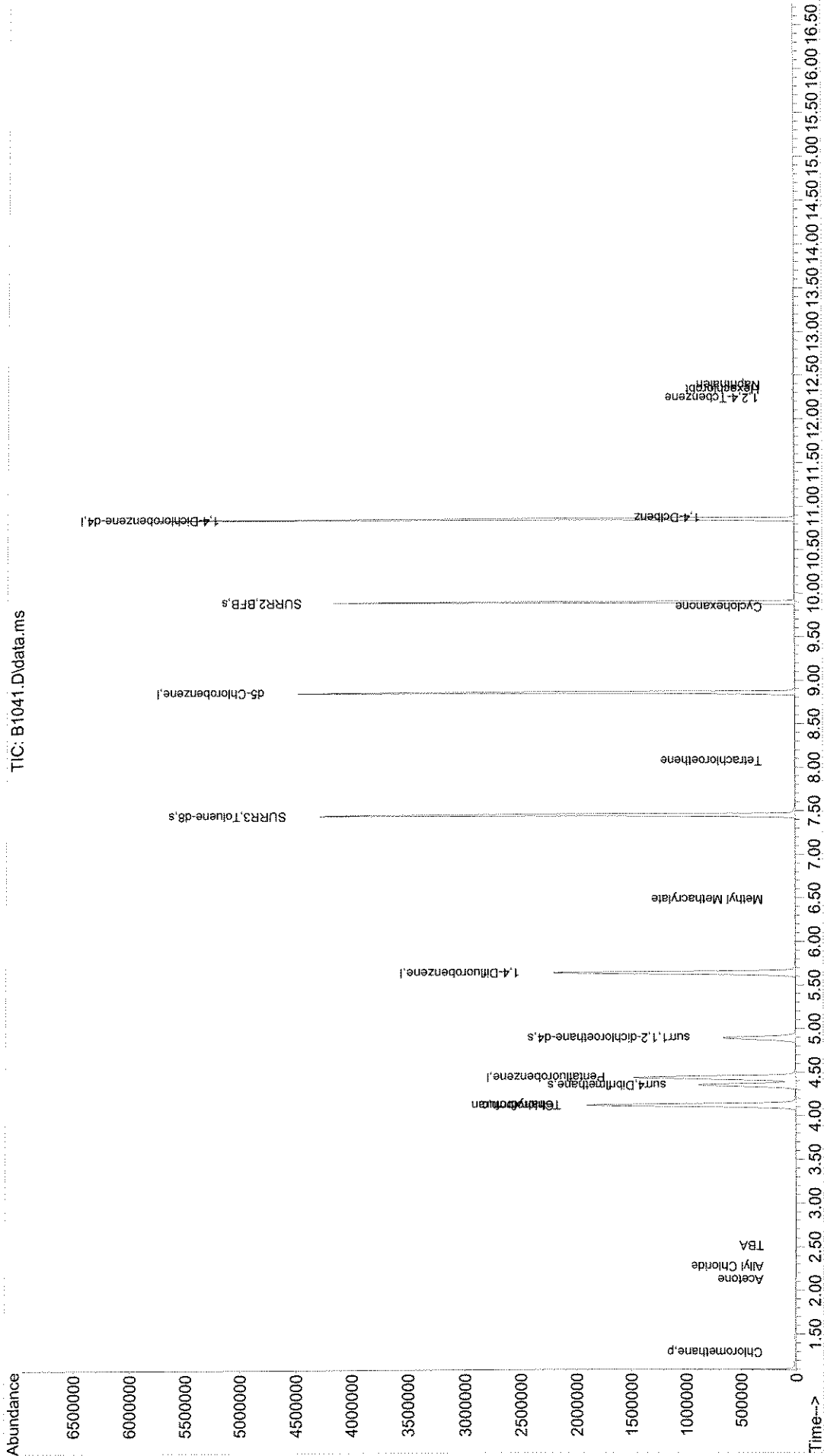
2.514min (+0.006) 1.99 ug/L m

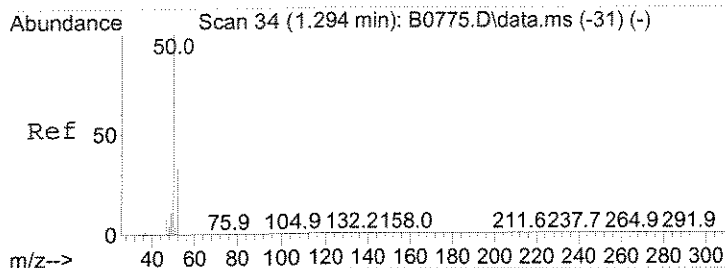
response 1143

Ion	Exp%	Act%
59.10	100	100
41.10	29.10	75.42#
0.00	0.00	0.00
0.00	0.00	0.00

Sample : 1113430 2.0 Vial: 17
 Data File : J:\ACQDATA\MSVOA10\DATA\071008\B1041.D
 Acq On : 10 Jul 2008 10:09 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44560 8260B.DODO

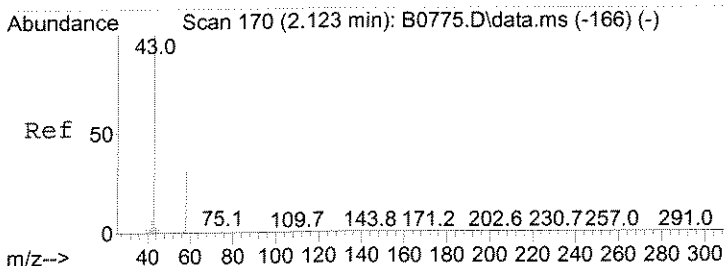
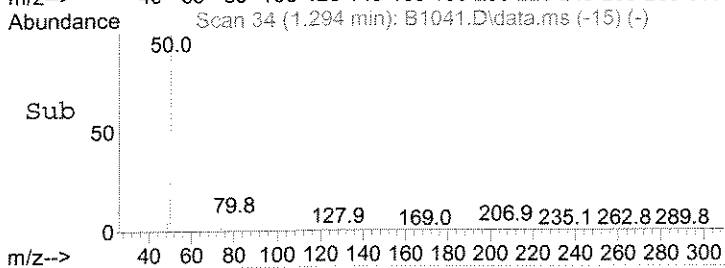
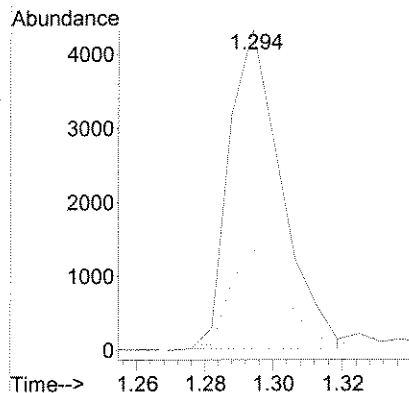
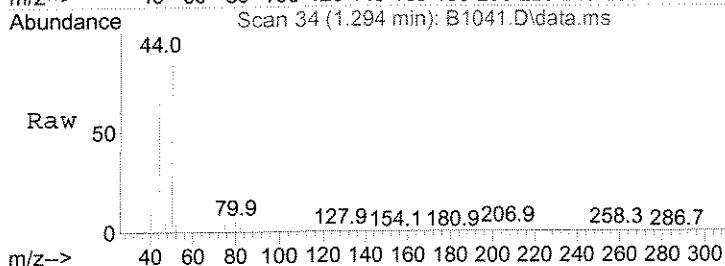
Quant Time: Jul 10 22:23:22 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





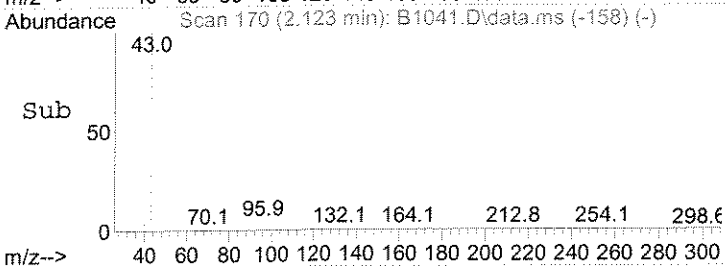
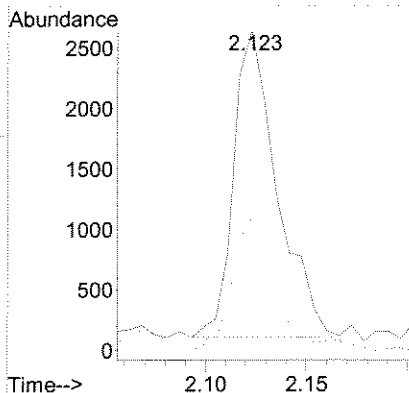
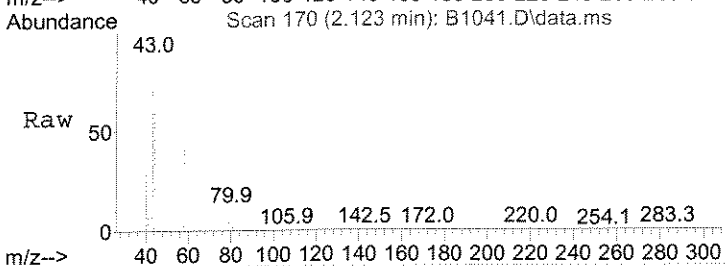
#4
 Chloromethane
 Concen: 0.45 ug/L
 RT: 1.294 min Scan# 34
 Delta R.T. 0.000 min
 Lab File: B1041.D
 Acq: 10 Jul 2008 10:09 pm

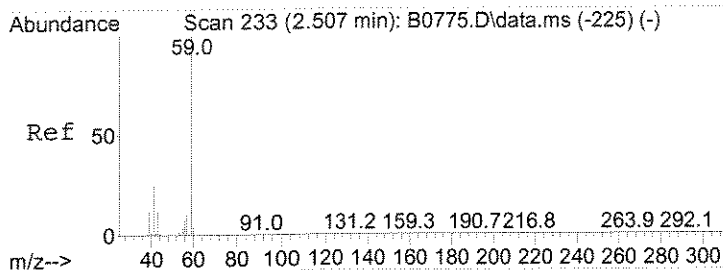
Tgt Ion	Resp	Lower	Upper
50	4591		
52	31.4	3.1	63.1



#16
 Acetone
 Concen: 2.25 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. 0.000 min
 Lab File: B1041.D
 Acq: 10 Jul 2008 10:09 pm

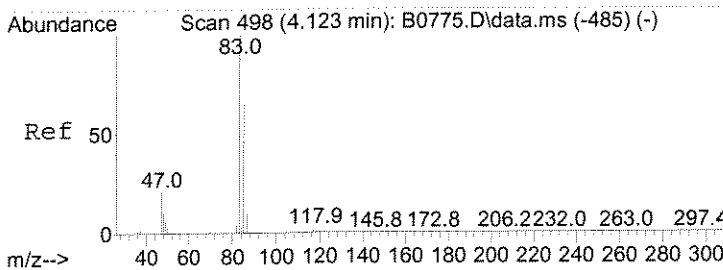
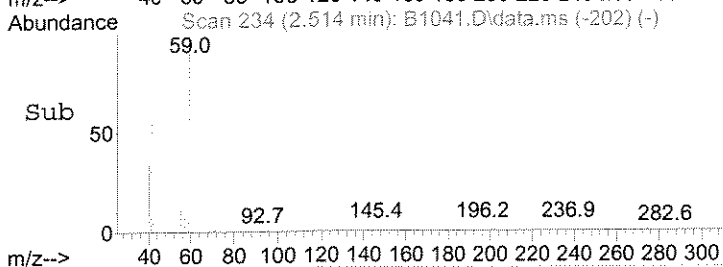
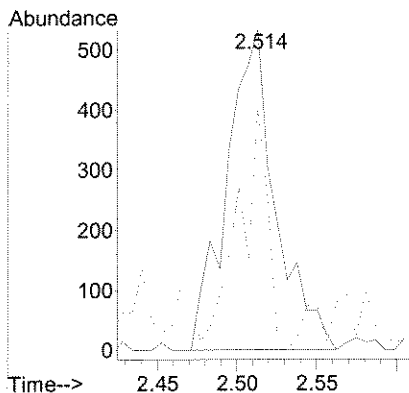
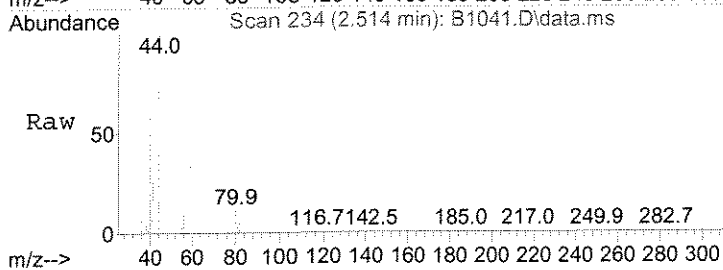
Tgt Ion	Resp	Lower	Upper
43	3823		
58	41.9	0.9	60.9
42	10.9	0.0	37.2





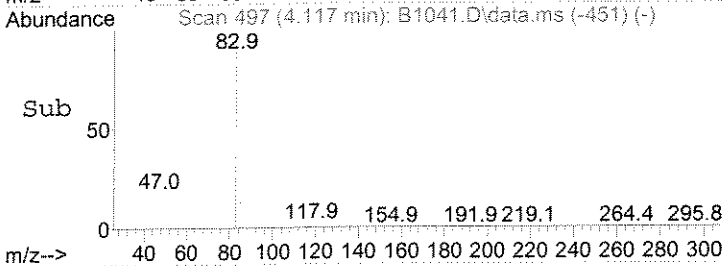
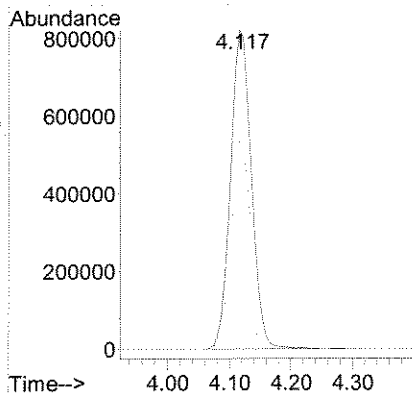
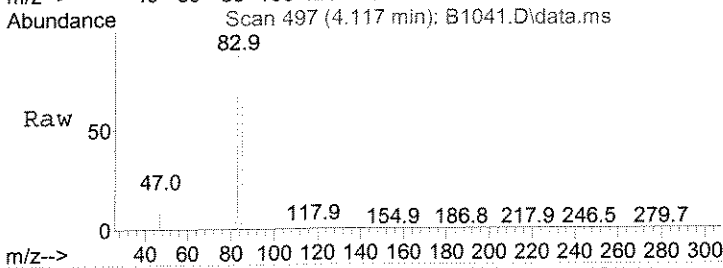
#24
TBA
Concen: 1.99 ug/L m
RT: 2.514 min Scan# 234
Delta R.T. 0.006 min
Lab File: B1041.D
Acq: 10 Jul 2008 10:09 pm

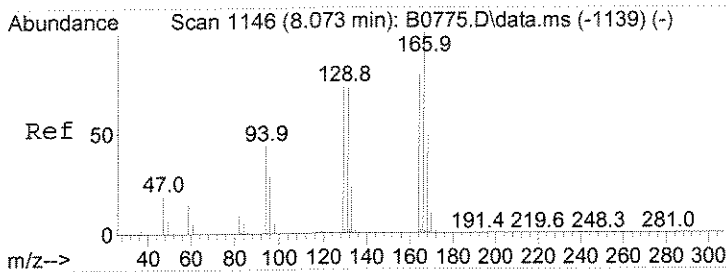
Tgt Ion: 59 Resp: 1143
Ion Ratio Lower Upper
59 100
41 75.4 14.5 43.6#



#41
Chloroform
Concen: 96.74 ug/L
RT: 4.117 min Scan# 497
Delta R.T. -0.006 min
Lab File: B1041.D
Acq: 10 Jul 2008 10:09 pm

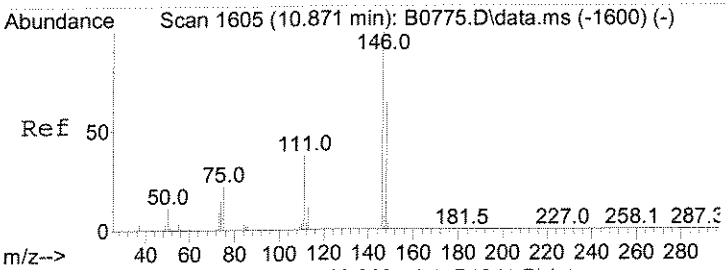
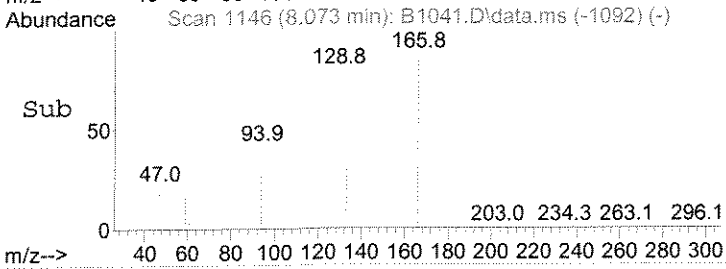
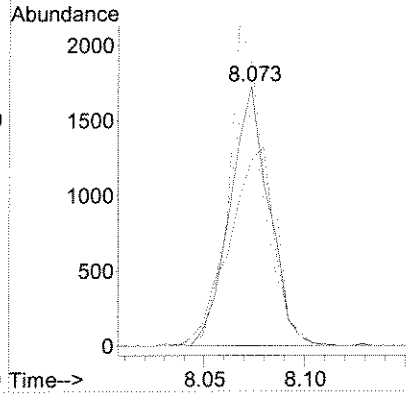
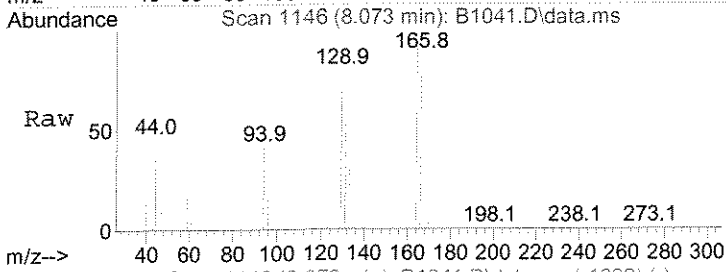
Tgt Ion: 83 Resp: 1936096
Ion Ratio Lower Upper
83 100
85 65.3 51.7 77.5
47 17.9 17.1 25.7





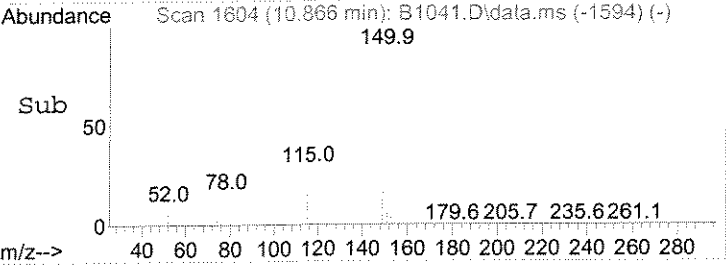
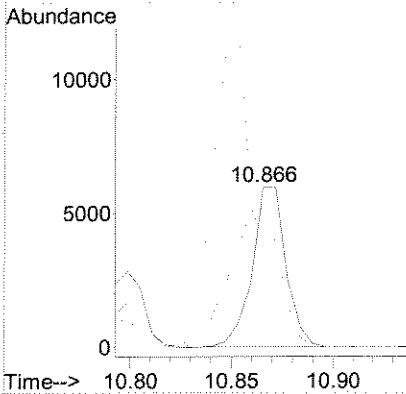
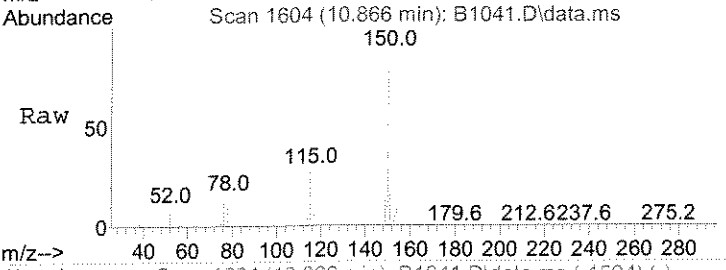
#72
 Tetrachloroethene
 Concen: 0.22 ug/L
 RT: 8.073 min Scan# 1146
 Delta R.T. 0.000 min
 Lab File: B1041.D
 Acq: 10 Jul 2008 10:09 pm

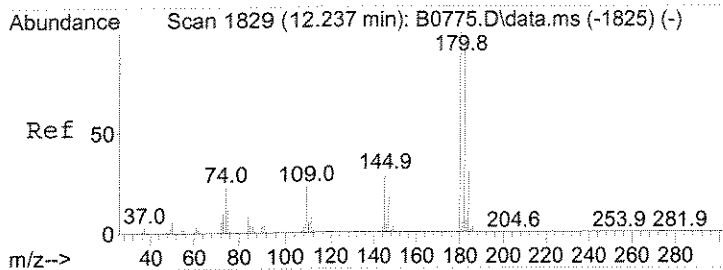
Tgt Ion	Ratio	Resp	Lower	Upper
164	100	2336		
166	110.7		101.5	152.3
129	88.8		73.8	110.6
131	71.5		72.9	109.3#



#101
 1,4-Diclbz
 Concen: 0.23 ug/L
 RT: 10.866 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: B1041.D
 Acq: 10 Jul 2008 10:09 pm

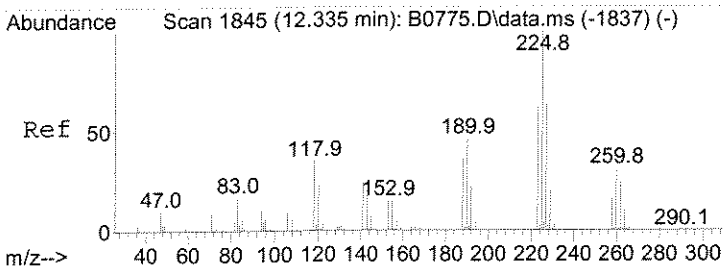
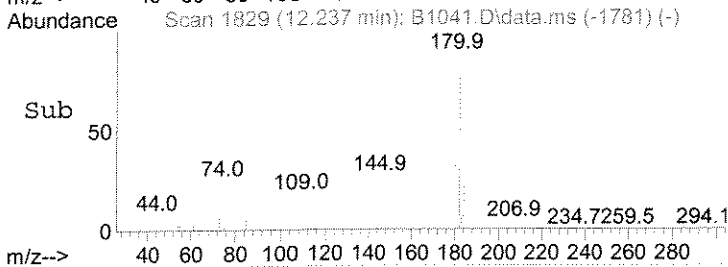
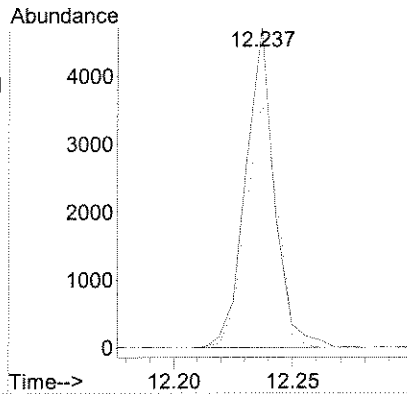
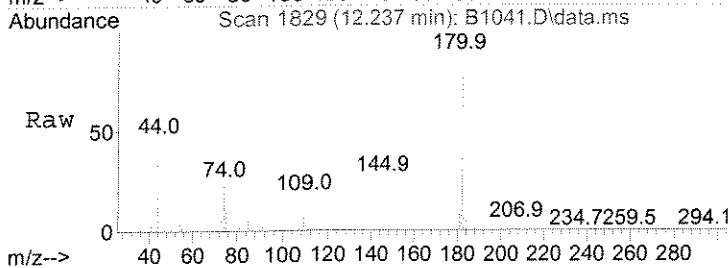
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	6912		
148	86.5		51.2	76.8#
111	49.5		30.0	45.0#





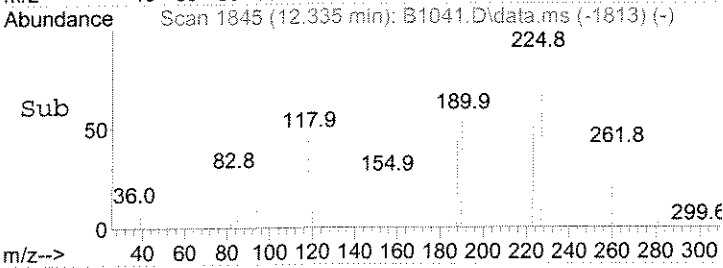
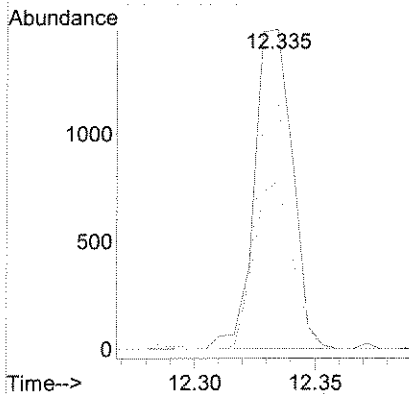
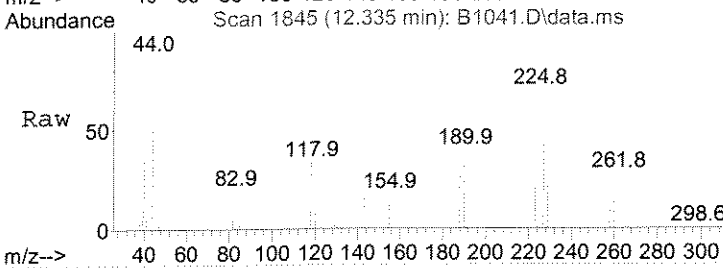
#107
 1,2,4-Tcbenzene
 Concen: 0.21 ug/L
 RT: 12.237 min Scan# 1829
 Delta R.T. 0.000 min
 Lab File: B1041.D
 Acq: 10 Jul 2008 10:09 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	77.0	77.8	116.6#
145	26.6	23.2	34.8



#108
 Hexachlorobt
 Concen: 0.22 ug/L
 RT: 12.335 min Scan# 1845
 Delta R.T. 0.000 min
 Lab File: B1041.D
 Acq: 10 Jul 2008 10:09 pm

Tgt Ion	Ratio	Lower	Upper
225	100		
223	52.5	49.7	74.5
227	77.2	50.1	75.1#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/27/08 14:00 Order #: 1113431 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	3.2 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	2.3 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	0.24 J	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/27/08 14:00 Order #: 1113431 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Sample : 1113431 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0916.D Vial: 15
 Acq On : 3 Jul 2008 7:55 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 20:09:38 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

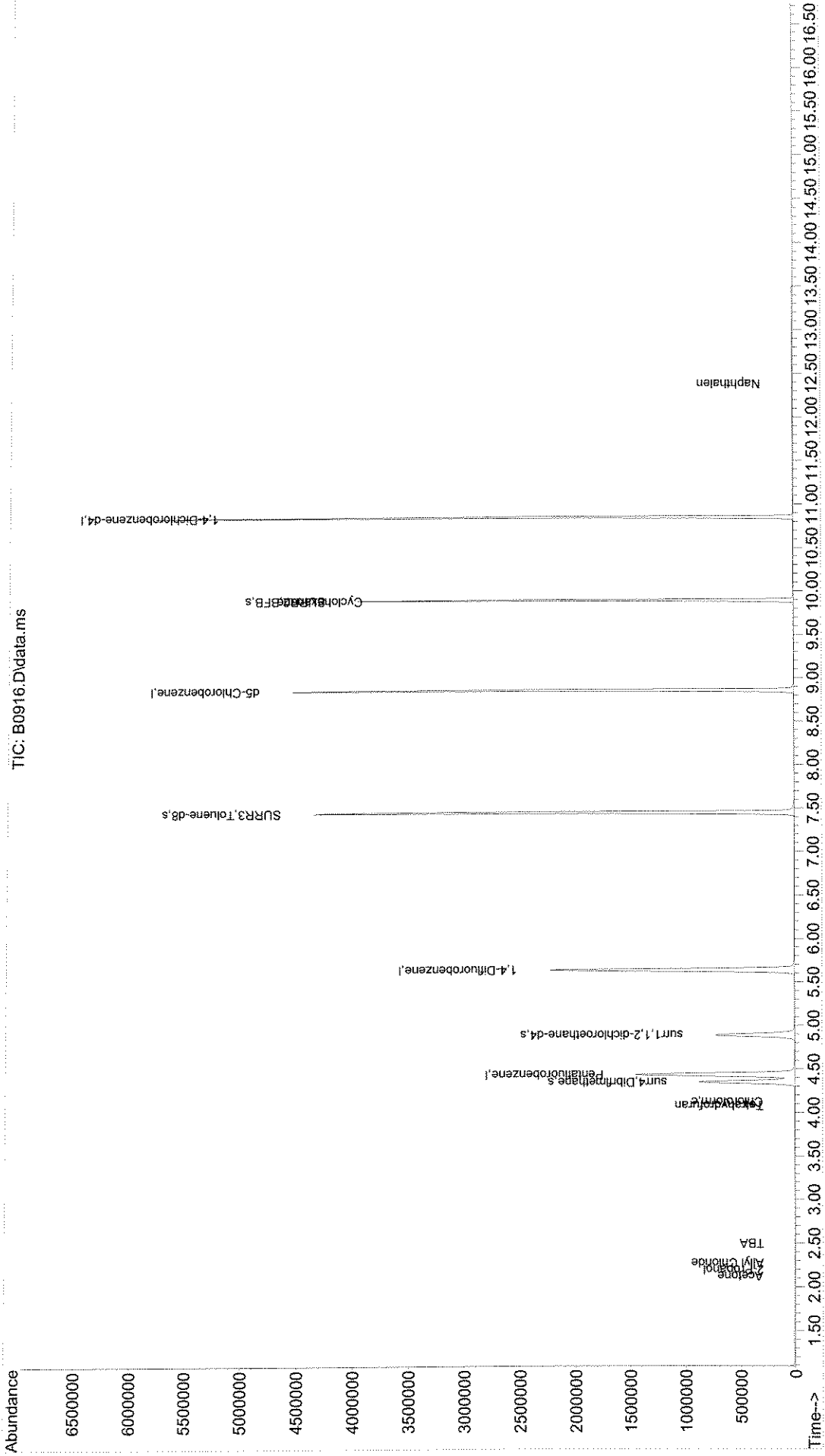
Internal Standards						
1) Pentafluorobenzene	4.434	168	1286831	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	2148255	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.854	117	1977003	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1062168	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	682738	48.16	ug/L	0.00
Spiked Amount	50.000		Recovery	=	96.32%	
49) surr1,1,2-dichloroetha...	4.891	65	727817	53.90	ug/L	0.00
Spiked Amount	50.000		Recovery	=	107.80%	
65) SURR3,Toluene-d8	7.445	98	2550027	54.53	ug/L	0.00
Spiked Amount	50.000		Recovery	=	109.06%	
70) SURR2,BFB	9.896	95	1026804	53.32	ug/L	0.00
Spiked Amount	50.000		Recovery	=	106.64%	
Target Compounds						
						Qvalue
16) Acetone	2.123	43	5021	3.16	ug/L	93 J
17) 2-Propanol	2.196	45	1054	3.12	ug/L #	41
21) Allyl Chloride	2.276	76	1473	0.30	ug/L #	1
24) TBA	2.501	59	1224	2.28	ug/L	93 JB
40) Tetrahydrofuran	4.080	42	435	0.28	ug/L #	40
41) Chloroform	4.123	83	4400	0.24	ug/L #	85 J
85) Cyclohexanone	9.890	55	2202	2.45	ug/L #	23
109) Naphthalen	12.377	128	732	0.55	ug/L #	90

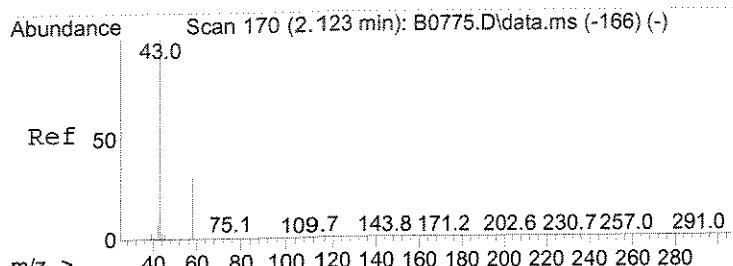
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FJ
7/15/08

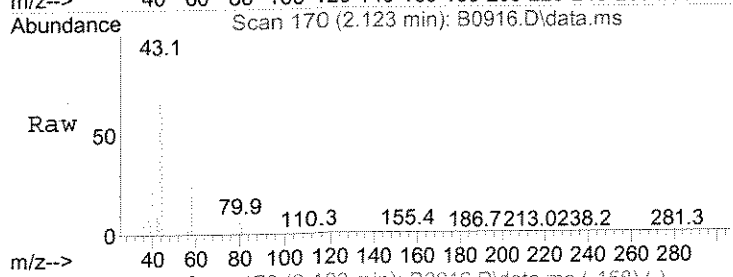
Sample : 1113431 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0916.D Vial: 15
 Acq On : 3 Jul 2008 7:55 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 20:09:38 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

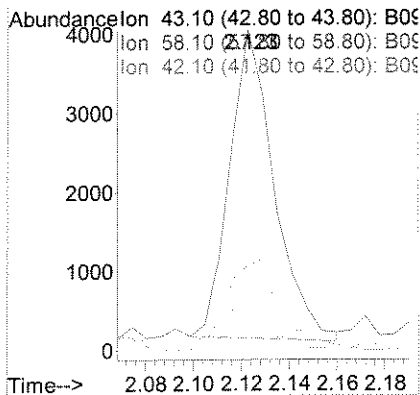
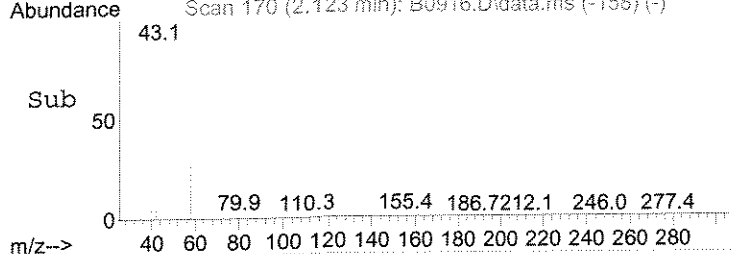


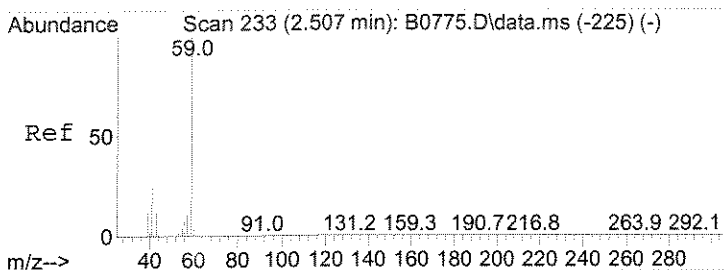


#16
 Acetone
 Concen: 3.16 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0916.D
 Acq: 3 Jul 2008 7:55 pm



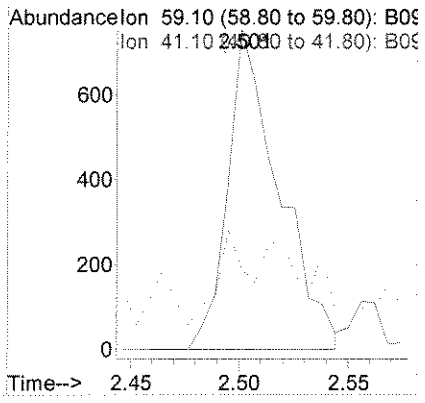
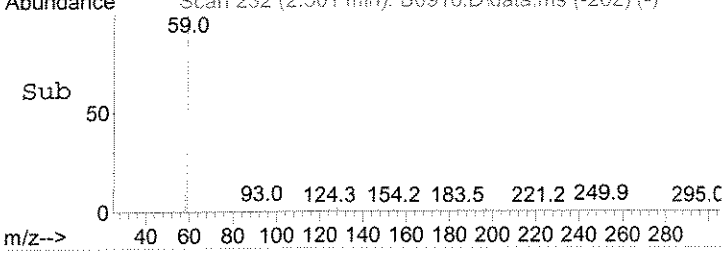
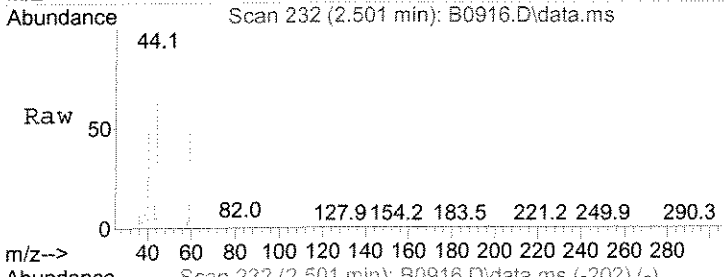
Tgt Ion	Resp	Lower	Upper
43	100		
58	26.7	0.9	60.9
42	8.9	0.0	37.2

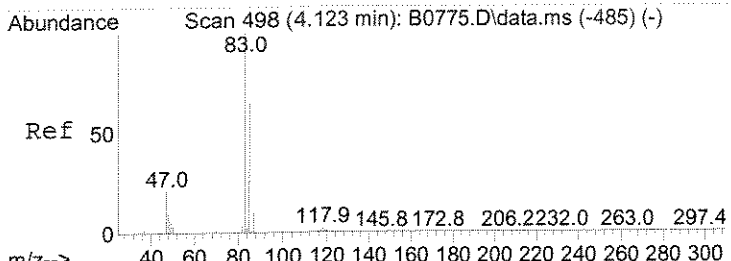




#24
 TBA
 Concen: 2.28 ug/L
 RT: 2.501 min Scan# 232
 Delta R.T. -0.006 min
 Lab File: B0916.D
 Acq: 3 Jul 2008 7:55 pm

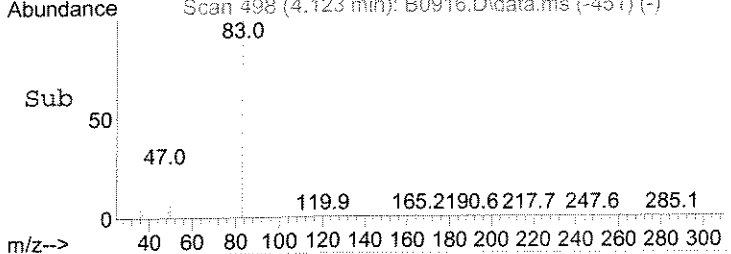
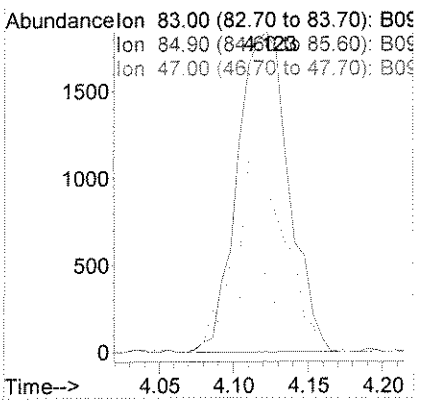
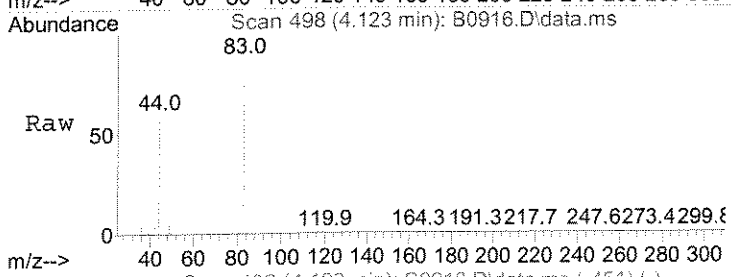
Tgt Ion	Resp	Lower	Upper
59	100		
41	25.5	14.5	43.6





#41
 Chloroform
 Concen: 0.24 ug/L
 RT: 4.123 min Scan# 498
 Delta R.T. -0.000 min
 Lab File: B0916.D
 Acq: 3 Jul 2008 7:55 pm

Tgt Ion	Resp	Lower	Upper
83	100		
85	50.9	51.7	77.5#
47	25.3	17.1	25.7



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TB062708GW3

Date Sampled : 06/27/08 09:50 Order #: 1113432 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	3.4 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	2.3 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TB062708GW3

Date Sampled : 06/27/08 09:50 Order #: 1113432 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Sample : 1113432 1.0
 Data File : J:\ACQUADATA\MSVOA10\DATA\070308\B0917.D Vial: 16
 Acq On : 3 Jul 2008 8:25 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 20:39:18 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

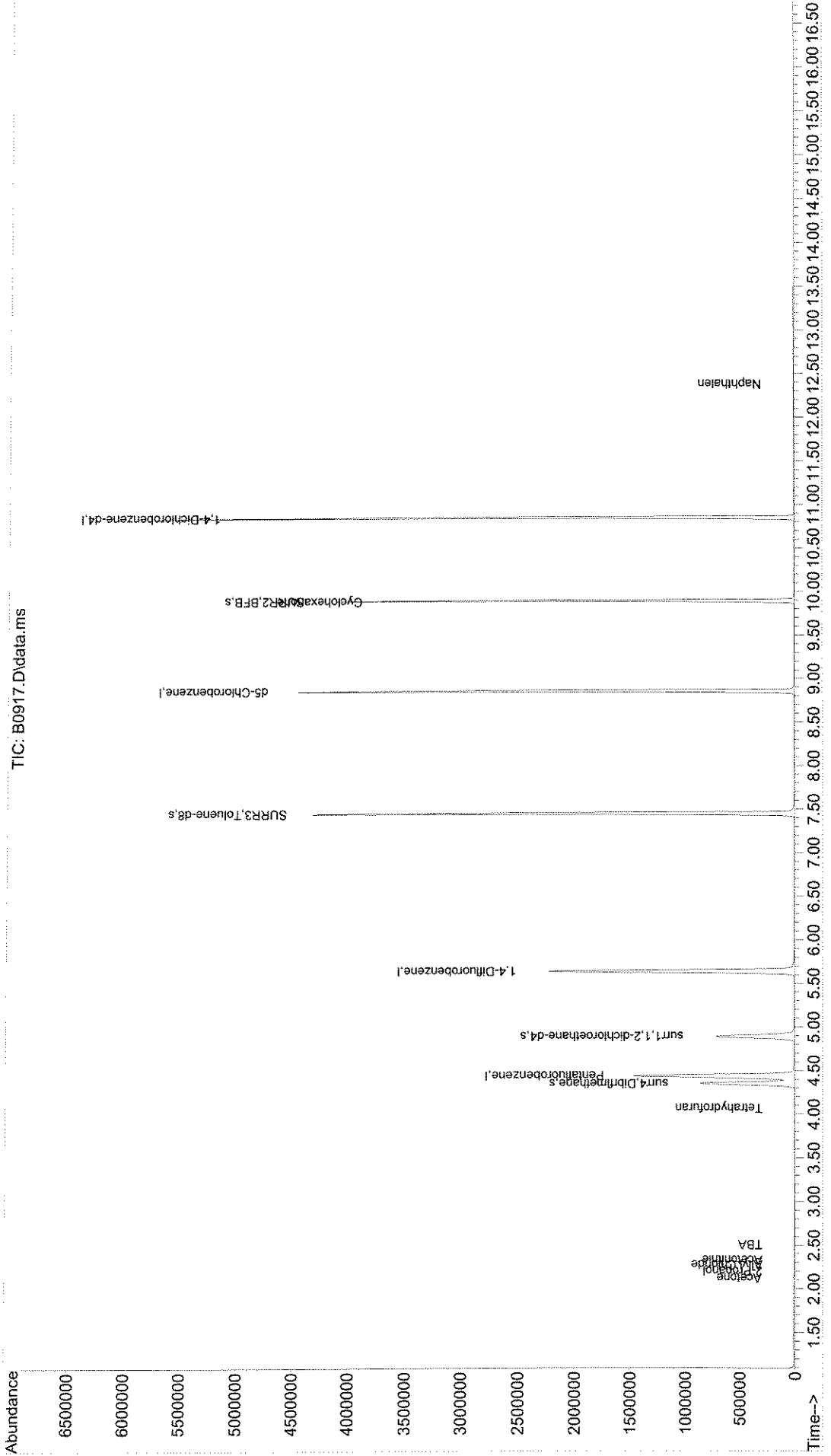
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.440	168	1292997	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2140979	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1980166	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1046561	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4, Dibrflmethane	4.348	113	686111	48.70	ug/L	0.00	
Spiked Amount	50.000			Recovery	=	97.40%	
49) surr1, 1,2-dichloroetha...	4.891	65	719881	53.49	ug/L	0.00	
Spiked Amount	50.000			Recovery	=	106.98%	
65) SURR3, Toluene-d8	7.451	98	2535491	54.40	ug/L	0.00	
Spiked Amount	50.000			Recovery	=	108.80%	
70) SURR2, BFB	9.896	95	1026448	53.48	ug/L	0.00	
Spiked Amount	50.000			Recovery	=	106.96%	
Target Compounds							
16) Acetone	2.123	43	5440	3.41	ug/L	93	J
17) 2-Propanol	2.202	45	1033	3.04	ug/L #	58	
20) Acetonitrile	2.330	40	610	2.73	ug/L #	1	
21) Allyl Chloride	2.275	76	1529	0.31	ug/L #	1	
24) TBA	2.507	59	1223	2.27	ug/L	73	JB
40) Tetrahydrofuran	4.068	42	310	0.20	ug/L #	41	
85) Cyclohexanone	9.890	55	2005	2.23	ug/L #	20	
109) Naphthalen	12.377	128	644	0.55	ug/L #	82	CLR

(#) = qualifier out of range (m) = manual integration (+) = signals summed

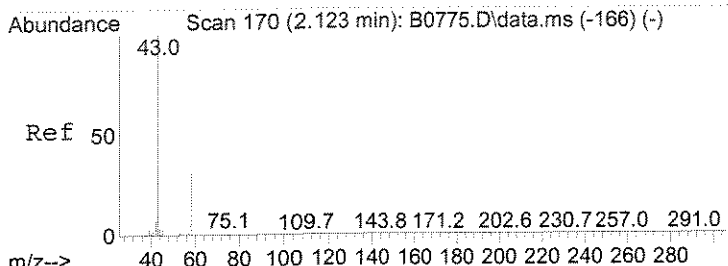
FV 7/15/08

Sample : 1113432 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0917.D Vial: 16
 Acq On : 3 Jul 2008 8:25 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 20:39:18 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 Qlast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

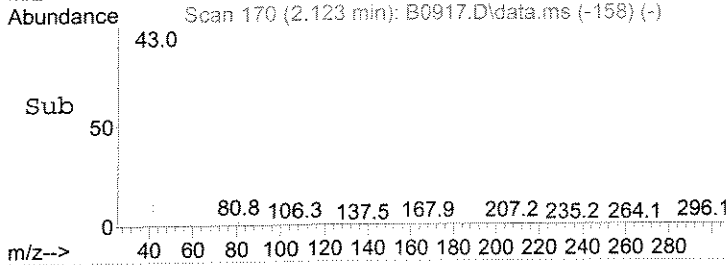
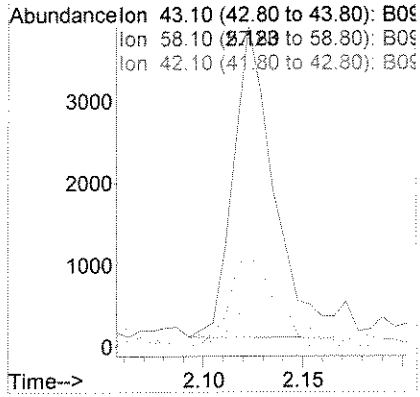
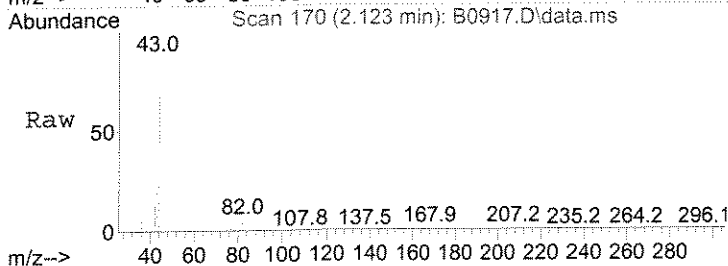


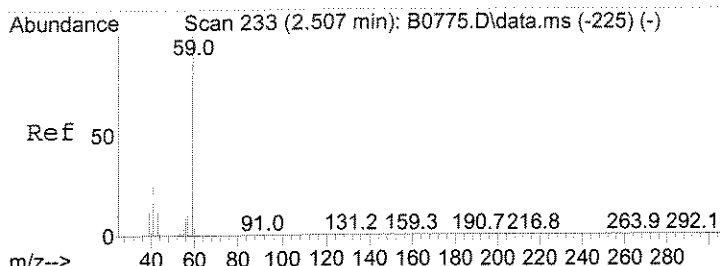
00482



#16
 Acetone
 Concen: 3.41 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0917.D
 Acq: 3 Jul 2008 8:25 pm

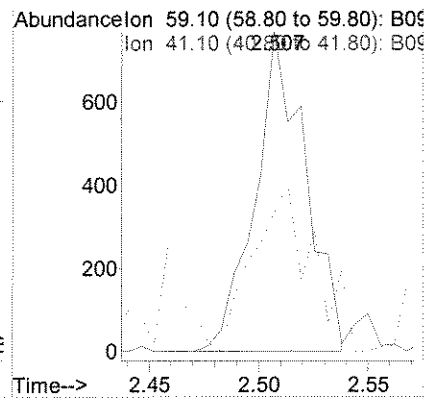
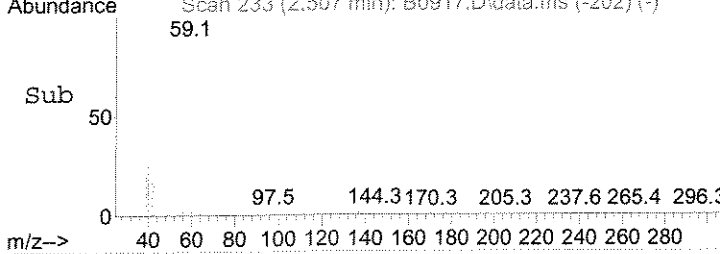
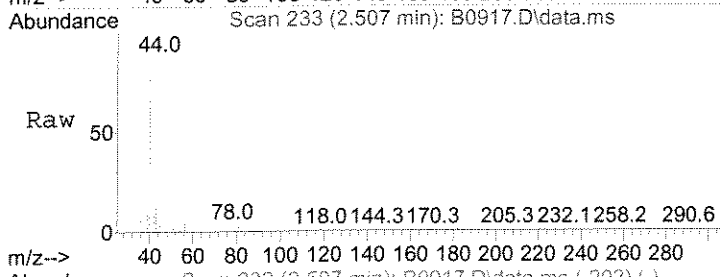
Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.4	0.9	60.9
42	13.1	0.0	37.2





#24
 TBA
 Concen: 2.27 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0917.D
 Acq: 3 Jul 2008 8:25 pm

Tgt Ion	Resp	Lower	Upper
59	100		
41	43.4	14.5	43.6



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/27/08 14:00 Order #: 1113433 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	2.8 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	2.0 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : TRIP BLANK

Date Sampled : 06/27/08 14:00 Order #: 1113433 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Sample : 1113433 1.0
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0918.D Vial: 17
 Acq On : 3 Jul 2008 8:54 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 21:08:56 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

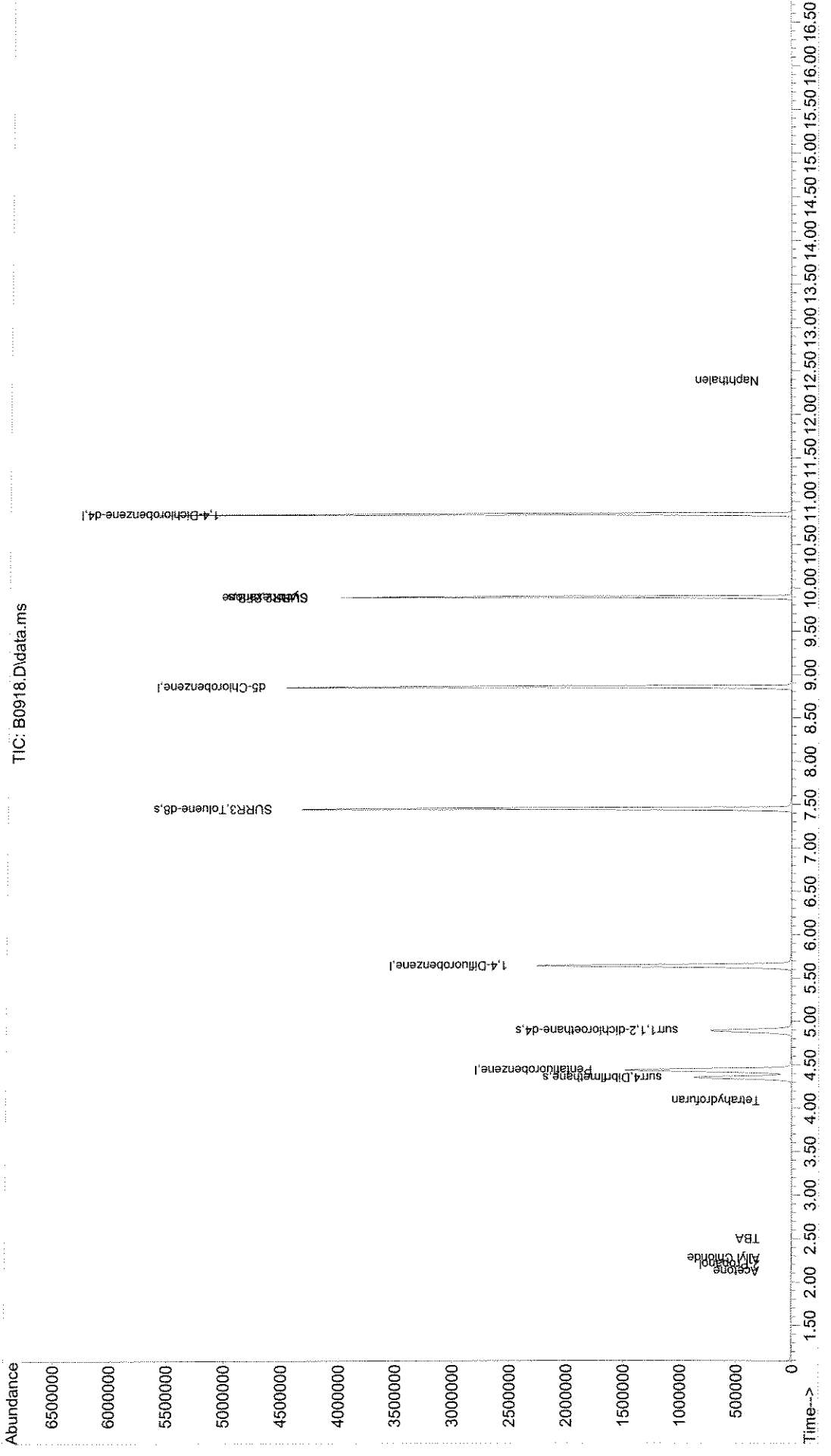
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1294200	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2145868	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1987896	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1056349	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	685028	48.45	ug/L	0.00	
Spiked Amount	50.000						Recovery = 96.90%
49) surr1,1,2-dichloroetha...	4.891	65	728637	54.02	ug/L	0.00	
Spiked Amount	50.000						Recovery = 108.04%
65) SURR3,Toluene-d8	7.451	98	2578221	55.19	ug/L	0.00	
Spiked Amount	50.000						Recovery = 110.38%
70) SURR2,BFB	9.896	95	1031086	53.60	ug/L	0.00	
Spiked Amount	50.000						Recovery = 107.20%
Target Compounds							
16) Acetone	2.123	43	4440	2.78	ug/L		92
17) 2-Propanol	2.202	45	227	0.67	ug/L #		32
21) Allyl Chloride	2.276	76	1933	0.40	ug/L #		1
24) TBA	2.501	59	1107	2.05	ug/L #		49 JB
40) Tetrahydrofuran	4.086	42	521	0.34	ug/L		97 NT
85) Cyclohexanone	9.896	55	2358	2.61	ug/L #		21
109) Naphthalen	12.383	128	937	0.56	ug/L #		89 CLR

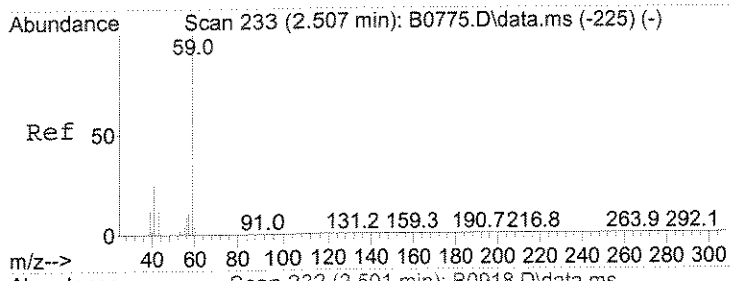
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FU
7/15/08

Sample : 1113433 1.0
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0918.D Vial: 17
 Acq On : 3 Jul 2008 8:54 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

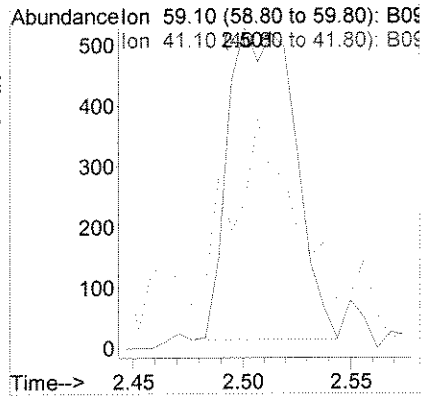
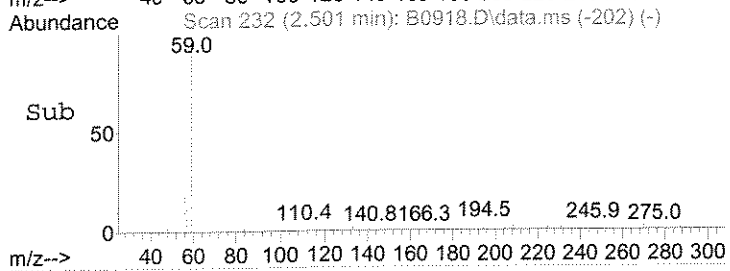
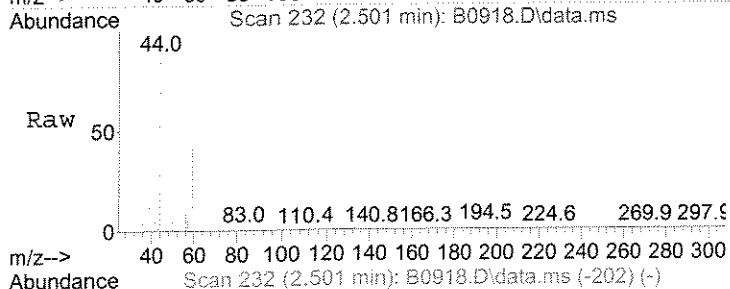
Quant Time: Jul 03 21:08:56 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 Quant Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

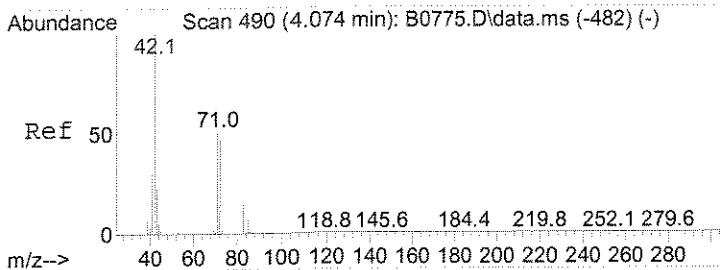




#24
 TBA
 Concen: 2.05 ug/L
 RT: 2.501 min Scan# 232
 Delta R.T. -0.006 min
 Lab File: B0918.D
 Acq: 3 Jul 2008 8:54 pm

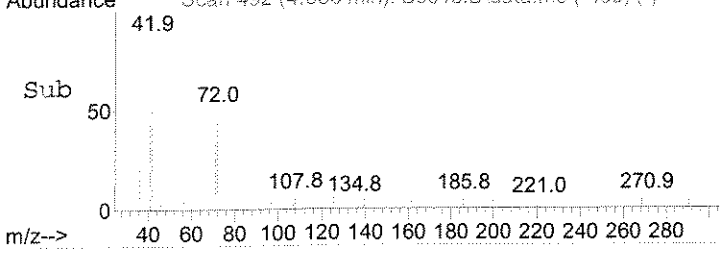
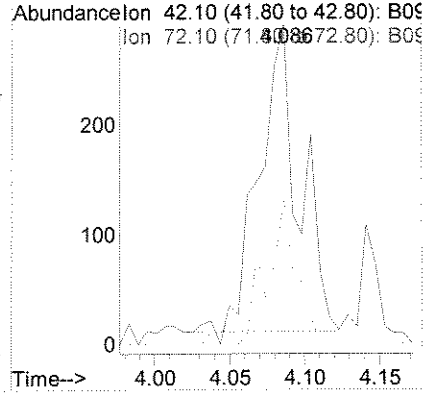
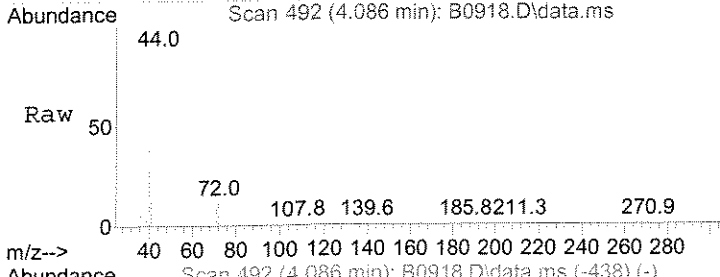
Tgt Ion: 59 Resp: 1107
 Ion Ratio Lower Upper
 59 100
 41 56.6 14.5 43.6#





#40
 Tetrahydrofuran
 Concen: 0.34 ug/L
 RT: 4.086 min Scan# 492
 Delta R.T. 0.012 min
 Lab File: B0918.D
 Acq: 3 Jul 2008 8:54 pm

Tgt Ion	Ratio	Lower	Upper
42	100		
72	45.0	37.4	56.2



VOLATILE ORGANICS
STANDARDS DATA

Initial Calibration - Summary Report

Calibration ID: CAL786	8260B (WATER)	Instrument ID: MSVOA10	
Method ID: MJ162	6/26/08	Column Name: MS	

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Dichlorodifluoromethane	TRG	AverageRF		0.400	15	8.4			OK	
Chloromethane	TRG	AverageRF	0.100	0.371	15	5.4			OK	
Vinyl Chloride	TRG	AverageRF		0.383	15	4.5			OK	
Bromomethane	TRG	AverageRF		0.274	15	11.9			OK	
Chloroethane	TRG	AverageRF		0.213	15	11.9			OK	
Dichlorofluoromethane (CFC 21)	TRG	AverageRF		0.718	15	4.6			OK	
Trichlorofluoromethane	TRG	AverageRF		0.670	15	7.5			OK	
Diethyl Ether	TRG	AverageRF		0.226	15	5.5			OK	
1,2-Dichloro-1,1,2-trifluoroethane (CF	TRG	AverageRF		0.434	15	9.4			OK	
2,2-Dichloro-1,1,1-trifluoroethane (CF	TRG	AverageRF		0.524	15	5.6			OK	
Acrolein	TRG	AverageRF		0.030	15	9.7			OK	
1,1-Dichloroethene	MS	AverageRF		0.337	15	3.9			OK	
Trichlorotrifluoroethane	TRG	AverageRF		0.360	15	5.8			OK	
Acetone	TRG	AverageRF		0.062	15	12.9			OK	
2-Propanol	TRG	AverageRF		0.013	15	14.6			OK	
Iodomethane (Methyl Iodide)	TRG	AverageRF		0.505	15	13.4			OK	
Carbon Disulfide	TRG	AverageRF		1.293	15	9.4			OK	
Acetonitrile	TRG	AverageRF		0.009	15	4.3			OK	
Allyl Chloride	TRG	AverageRF		0.188	15	6.1			OK	
Methyl Acetate	TRG	AverageRF		0.180	15	3.5			OK	
Methylene Chloride	TRG	AverageRF		0.419	15	11.8			OK	
tert-Butyl Alcohol	TRG	AverageRF		0.021	15	13.5			OK	
Acrylonitrile	TRG	AverageRF		0.085	15	6.2			OK	
Methyl tert-Butyl Ether	TRG	AverageRF		0.854	15	6.8			OK	
trans-1,2-Dichloroethene	TRG	AverageRF		0.386	15	3.7			OK	
1,1-Dichloroethane	TRG	AverageRF	0.100	0.712	15	3.8			OK	
Vinyl Acetate	TRG	Linear		0.039			.99	0.9983	OK	2.67 *
Diisopropyl Ether	TRG	AverageRF		1.037	15	7.8			OK	
2-Chloro-1,3-butadiene	TRG	AverageRF		0.552	15	9.5			OK	
ETBE	TRG	AverageRF		0.966	15	10.7			OK	
2,2-Dichloropropane	TRG	AverageRF		0.508	15	7.8			OK	
cis-1,2-Dichloroethene	TRG	AverageRF		0.417	15	4.4			OK	
2-Butanone (MEK)	TRG	AverageRF		0.103	15	4.0			OK	
Propionitrile	TRG	AverageRF		0.032	15	10.4			OK	
Bromochloromethane	TRG	AverageRF		0.261	15	7.1			OK	
Methacrylonitrile	TRG	AverageRF		0.089	15	11.5			OK	
Tetrahydrofuran	TRG	AverageRF		0.059	15	4.0			OK	
Chloroform	TRG	AverageRF		0.725	15	3.5			OK	
1,1,1-Trichloroethane (TCA)	TRG	AverageRF		0.649	15	2.4			OK	
TAME	TRG	AverageRF		0.798	15	12.8			OK	
Cyclohexane	TRG	AverageRF		0.209	15	3.7			OK	
Dibromofluoromethane	SURR	Linear		0.297			.99	0.9991	NA	16.13
Carbon Tetrachloride	TRG	AverageRF		0.124	15	3.2			OK	
1,1-Dichloropropene	TRG	AverageRF		0.354	15	3.8			OK	
1,2-Dichloroethane-d4	SURR	AverageRF		0.314	15	8.3			NA	
Benzene	MS	AverageRF		1.007	15	2.9			OK	
1,2-Dichloroethane (EDC)	TRG	AverageRF		0.348	15	3.5			OK	
Isobutyl Alcohol	TRG	Linear		0.006			.99	0.9954	OK	76.13 *
n-Heptane	TRG	AverageRF		0.206	15	9.2			OK	
Trichloroethene (TCE)	MS	AverageRF		0.277	15	4.1			OK	
Methylcyclohexane	TRG	AverageRF		0.302	15	7.2			OK	

Initial Calibration - Summary Report

Calibration ID: CAL786
Method ID: MJ162

Instrument ID: MSVOA10
Column Name: MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
1,2-Dichloropropane	TRG	AverageRF		0.251	15	4.1			OK	
Dibromomethane	TRG	AverageRF		0.147	15	3.5			OK	
1,4-Dioxane	TRG	AverageRF		0.002	15	9.4			OK	
Methyl Methacrylate	TRG	Linear		0.098			.99	0.9985	OK	1.61 *
Bromodichloromethane	TRG	AverageRF		0.361	15	2.5			OK	
2-Chloroethyl Vinyl Ether	TRG	Linear		0.074			.99	0.9971	OK	0.20
cis-1,3-Dichloropropene	TRG	AverageRF		0.377	15	10.9			OK	
4-Methyl-2-pentanone (MIBK)	TRG	AverageRF		0.139	15	12.3			OK	
Toluene-d8	SURR	AverageRF		1.088	15	6.2			NA	
Toluene	MS	AverageRF		1.101	15	2.8			OK	
trans-1,3-Dichloropropene	TRG	AverageRF		0.324	15	14.6			OK	
Ethyl Methacrylate	TRG	Linear		0.191			.99	0.9990	OK	1.70 *
1,1,2-Trichloroethane	TRG	AverageRF		0.194	15	4.2			OK	
4-Bromofluorobenzene	SURR	AverageRF		0.448	15	6.1			NA	
Tetrachloroethene (PCE)	TRG	AverageRF		0.249	15	3.5			OK	
2-Hexanone	TRG	AverageRF		0.110	15	11.5			OK	
1,3-Dichloropropane	TRG	AverageRF		0.379	15	3.1			OK	
Dibromochloromethane	TRG	AverageRF		0.286	15	6.4			OK	
1,2-Dibromoethane (EDB)	TRG	AverageRF		0.222	15	4.4			OK	
Chlorobenzene	MS	AverageRF	0.300	0.832	15	3.1			OK	
1,1,1,2-Tetrachloroethane	TRG	AverageRF		0.297	15	3.7			OK	
Ethylbenzene	TRG	AverageRF		0.420	15	5.0			OK	
m,p-Xylenes	TRG	AverageRF		0.508	15	7.2			OK	
o-Xylene	TRG	AverageRF		0.485	15	9.7			OK	
Styrene	TRG	AverageRF		0.829	15	11.5			OK	
Bromoform	TRG	AverageRF	0.100	0.175	15	10.0			OK	
Isopropylbenzene	TRG	AverageRF		1.253	15	11.4			OK	
Cyclohexanone	TRG	AverageRF		0.023	15	6.9			*	
trans-1,4-Dichloro-2-butene	TRG	AverageRF		0.045	15	6.6			OK	
1,1,2,2-Tetrachloroethane	TRG	AverageRF	0.300	0.462	15	3.0			OK	
Bromobenzene	TRG	AverageRF		0.638	15	2.5			OK	
1,2,3-Trichloropropane	TRG	AverageRF		0.138	15	6.9			OK	
n-Propylbenzene	TRG	AverageRF		2.763	15	7.8			OK	
2-Chlorotoluene	TRG	AverageRF		1.730	15	5.6			OK	
4-Chlorotoluene	TRG	AverageRF		2.043	15	5.5			OK	
1,3,5-Trimethylbenzene	TRG	AverageRF		1.970	15	9.1			OK	
tert-Butylbenzene	TRG	AverageRF		1.613	15	11.9			OK	
1,2,4-Trimethylbenzene	TRG	AverageRF		2.037	15	11.1			OK	
sec-Butylbenzene	TRG	AverageRF		2.361	15	10.1			OK	
4-Isopropyltoluene	TRG	AverageRF		2.058	15	10.1			OK	
1,3-Dichlorobenzene	TRG	AverageRF		1.259	15	3.0			OK	
1,4-Dichlorobenzene	TRG	AverageRF		1.303	15	2.6			OK	
n-Butylbenzene	TRG	AverageRF		1.781	15	9.8			OK	
1,2-Dichlorobenzene	TRG	AverageRF		1.186	15	3.3			OK	
1,2-Dibromo-3-chloropropane (DBCP)	TRG	AverageRF		0.101	15	11.7			OK	
1,2,4-Trichlorobenzene	TRG	AverageRF		0.809	15	6.9			OK	
Hexachlorobutadiene	TRG	AverageRF		0.329	15	6.0			OK	
Naphthalene	TRG	Linear		1.534			.99	0.9992	OK	0.69 *
1,2,3-Trichlorobenzene	TRG	AverageRF		0.741	15	6.4			OK	

Initial Calibration - Summary Report

Calibration ID: CAL786
Method ID: MJ162

Instrument ID: MSVOA10
Column Name: MS

SPCC and CCC Evaluations

Parameter Name	Type	SPCC Criteria	SPCC Result	CCC Criteria	CCC Result
Chloromethane	SPCC	0.100	0.371		
Vinyl Chloride	CCC			30	4.5
1,1-Dichloroethene	CCC			30	3.9
1,1-Dichloroethane	SPCC	0.100	0.712		
Chloroform	CCC			30	3.5
1,2-Dichloropropane	CCC			30	4.1
Toluene	CCC			30	2.8
Chlorobenzene	SPCC	0.300	0.832		
Ethylbenzene	CCC			30	5.0
Bromoform	SPCC	0.100	0.175		
1,1,2,2-Tetrachloroethane	SPCC	0.300	0.462		

Initial Calibration - Detailed Report

Calibration ID: CAL786
Method ID: MJ162

Instrument ID: MSVOA10
Column Name: MS
Calibration Fit: AverageRF

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
6442	J:\ACQUDATA\msvoa10\data\062608\B0770.D	06/26/2008 13:21	06/30/2008 08:53	06/30/2008 10:43
6443	J:\ACQUDATA\msvoa10\data\062608\B0771.D	06/26/2008 13:51	06/30/2008 08:57	06/30/2008 10:43
6444	J:\ACQUDATA\msvoa10\data\062608\B0772.D	06/26/2008 14:21	06/30/2008 09:15	06/30/2008 10:43
6445	J:\ACQUDATA\msvoa10\data\062608\B0773.D	06/26/2008 14:50	06/30/2008 09:21	06/30/2008 10:43
6446	J:\ACQUDATA\msvoa10\data\062608\B0774.D	06/26/2008 15:22	06/30/2008 09:25	06/30/2008 10:43
6447	J:\ACQUDATA\msvoa10\data\062608\B0775.D	06/26/2008 15:52	06/30/2008 09:30	06/30/2008 10:43
6448	J:\ACQUDATA\msvoa10\data\062608\B0776.D	06/26/2008 16:49	06/30/2008 08:41	06/30/2008 10:43
6449	J:\ACQUDATA\msvoa10\data\062608\B0777.D	06/26/2008 17:19	06/30/2008 08:41	06/30/2008 10:43
6450	J:\ACQUDATA\msvoa10\data\062608\B0778.D	06/26/2008 17:49	06/30/2008 09:40	06/30/2008 10:43

Parameter Name	FileID									Mean RF	%RSD
	(0.5)6442	(1)6443	(2)6444	(5)6445	(10)6446	(50)6447	(100)6448	(150)6449	(200)6450		
Dichlorodifluoromethane	0.445	0.372	0.381	0.344	0.441	0.428	0.404	0.384		0.400	8.4
Chloromethane	0.410	0.356	0.359	0.358	0.393	0.385	0.367	0.354		0.371	5.4
Vinyl Chloride	0.394	0.354	0.388	0.385	0.403	0.405	0.383	0.361		0.383	4.5
Bromomethane	0.319	0.324	0.289	0.259	0.280	0.270	0.253	0.233		0.274	11.9
Chloroethane	0.267	0.220	0.228	0.204	0.221	0.210	0.200	0.182		0.213	11.9
Dichlorofluoromethane (CFC 21)	0.767	0.710	0.740	0.730	0.719	0.747	0.707	0.681		0.718	4.6
Trichlorofluoromethane	0.749	0.654	0.719	0.684	0.690	0.690	0.639	0.597		0.670	7.5
Diethyl Ether	0.229	0.235	0.236	0.240	0.235	0.229	0.213	0.210		0.226	5.5
1,2-Dichloro-1,1,2-trifluoroethane (0.511	0.417	0.443	0.467	0.418	0.454	0.415	0.406		0.434	9.4
2,2-Dichloro-1,1,1-trifluoroethane (0.577	0.491	0.548	0.541	0.504	0.541	0.519	0.507		0.524	5.6
Acrolein	0.027	0.026	0.028	0.028	0.029	0.032	0.035	0.032		0.030	9.7
1,1-Dichloroethene	0.359	0.335	0.342	0.334	0.346	0.349	0.329	0.315		0.337	3.9
Trichlorotrifluoroethane	0.380	0.352	0.393	0.359	0.380	0.364	0.346	0.331		0.360	5.8
Acetone				0.077	0.061	0.059	0.054	0.060		0.062	12.9
2-Propanol			0.011	0.012	0.011	0.013	0.014	0.016		0.013	14.6
Iodomethane (Methyl Iodide)	0.449	0.393	0.459	0.486	0.486	0.586	0.593	0.557		0.505	13.4
Carbon Disulfide	1.517	1.277	1.337	1.287	1.047	1.338	1.315	1.270		1.293	9.4

Initial Calibration - Detailed Report

Calibration ID: CAL786
Method ID: MJ162

Instrument ID: MSVOA10
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	6442 6450	6443	6444	6445	6446	6447	6448	6449		
Acetonitrile			0.008	0.009	0.009	0.009	0.009	0.008	0.009	4.3
Allyl Chloride	0.008									
Methyl Acetate	0.202	0.163	0.191	0.180	0.190	0.197	0.194	0.184	0.188	6.1
Methylene Chloride	0.191									
tert-Butyl Alcohol		0.179	0.174	0.186	0.181	0.192	0.174	0.181	0.180	3.5
Acrylonitrile	0.176									
Methyl tert-Butyl Ether	0.526	0.461	0.433	0.418	0.404	0.396	0.379	0.369	0.419	11.8
trans-1,2-Dichloroethene	0.383									
1,1-Dichloroethane	0.020	0.018	0.017	0.019	0.019	0.022	0.021	0.025	0.021	13.5
Vinyl Acetate	0.025									
Diisopropyl Ether	0.074	0.082	0.083	0.085	0.088	0.092	0.084	0.090	0.085	6.2
2-Chloro-1,3-butadiene	0.088									
ETBE	0.762	0.788	0.805	0.854	0.863	0.926	0.875	0.905	0.854	6.8
2,2-Dichloropropane	0.912									
cis-1,2-Dichloroethene	0.397	0.380	0.388	0.402	0.404	0.393	0.378	0.361	0.386	3.7
2-Butanone (MEK)	0.374									
Propionitrile	0.741	0.692	0.742	0.719	0.735	0.722	0.697	0.663	0.712	3.8
Bromochloromethane	0.693									
Methacrylonitrile		0.027	0.035	0.032	0.037	0.042	0.044	0.045	0.039	18.4#
Tetrahydrofuran	0.899	0.943	0.985	1.056	1.113	1.145	1.087	1.069	1.037	7.8
Chloroform	1.034									
1,1,1-Trichloroethane (TCA)	0.495	0.488	0.553	0.567	0.483	0.624	0.610	0.583	0.552	9.5
TAME	0.567									
Cyclohexane	0.811	0.824	0.882	0.960	0.989	1.063	1.043	1.067	0.966	10.7
	1.053									
	0.510	0.447	0.476	0.465	0.497	0.549	0.553	0.530	0.508	7.8
	0.549									
	0.447	0.388	0.417	0.410	0.436	0.429	0.414	0.398	0.417	4.4
	0.414									
			0.104	0.108	0.101	0.106	0.096	0.107	0.103	4.0
	0.102									
	0.029	0.026	0.031	0.033	0.031	0.033	0.033	0.036	0.032	10.4
	0.036									
	0.306	0.266	0.261	0.256	0.263	0.261	0.247	0.242	0.261	7.1
	0.247									
	0.075	0.074	0.081	0.090	0.093	0.096	0.093	0.101	0.089	11.5
	0.101									
		0.061	0.057	0.055	0.060	0.060	0.058	0.062	0.059	4.0
	0.063									
	0.742	0.704	0.739	0.753	0.752	0.737	0.713	0.681	0.725	3.5
	0.707									
	0.648	0.629	0.668	0.654	0.654	0.666	0.649	0.619	0.649	2.4
	0.651									
	0.657	0.705	0.704	0.737	0.787	0.877	0.868	0.926	0.798	12.8
	0.923									
	0.206	0.203	0.221	0.218	0.204	0.218	0.208	0.204	0.209	3.7
	0.200									

Initial Calibration - Detailed Report

Calibration ID: CAL786
Method ID: MJ162

Instrument ID: MSVOA10
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	6442 6450	6443	6444	6445	6446	6447	6448	6449		
Dibromofluoromethane				0.319	0.307	0.320	0.284	0.277		
	0.274								0.297	7.1#
Carbon Tetrachloride	0.132	0.120	0.123	0.121	0.125	0.127	0.123	0.119		
	0.122								0.124	3.2
1,1-Dichloropropene	0.355	0.324	0.369	0.358	0.353	0.367	0.358	0.345		
	0.359								0.354	3.8
1,2-Dichloroethane-d4				0.347	0.327	0.337	0.297	0.293		
	0.285								0.314	8.3
Benzene	1.023	0.952	1.013	1.021	1.047	1.025	1.003	0.971		
	1.013								1.007	2.9
1,2-Dichloroethane (EDC)	0.360	0.351	0.355	0.354	0.363	0.351	0.334	0.331		
	0.332								0.348	3.5
Isobutyl Alcohol			0.005	0.004	0.005	0.006	0.006	0.007		
	0.007								0.006	18.3#
n-Heptane	0.204	0.165	0.193	0.200	0.215	0.224	0.226	0.211		
	0.219								0.206	9.2
Trichloroethene (TCE)	0.301	0.263	0.285	0.279	0.271	0.277	0.273	0.264		
	0.278								0.277	4.1
Methylcyclohexane	0.274	0.268	0.295	0.298	0.300	0.333	0.322	0.318		
	0.312								0.302	7.2
1,2-Dichloropropane	0.243	0.236	0.236	0.259	0.259	0.264	0.255	0.249		
	0.257								0.251	4.1
Dibromomethane	0.156	0.150	0.148	0.143	0.148	0.149	0.140	0.142		
	0.143								0.147	3.5
1,4-Dioxane			0.002	0.002	0.002	0.002	0.002	0.002		
	0.002								0.002	9.4
Methyl Methacrylate	0.075	0.080	0.081	0.092	0.098	0.112	0.106	0.117		
	0.117								0.098	16.7#
Bromodichloromethane	0.370	0.352	0.347	0.356	0.371	0.372	0.365	0.354		
	0.362								0.361	2.5
2-Chloroethyl Vinyl Ether		0.055	0.049	0.062	0.064	0.092	0.093	0.091		
	0.085								0.074	24.5#
cis-1,3-Dichloropropene	0.320	0.339	0.336	0.347	0.382	0.421	0.415	0.410		
	0.419								0.377	10.9
4-Methyl-2-pentanone (MIBK)			0.115	0.124	0.129	0.150	0.141	0.159		
	0.156								0.139	12.3
Toluene-d8				1.149	1.111	1.177	1.054	1.023		
	1.016								1.088	6.2
Toluene	1.153	1.078	1.108	1.085	1.134	1.120	1.092	1.053		
	1.089								1.101	2.8
trans-1,3-Dichloropropene	0.260	0.280	0.278	0.294	0.322	0.372	0.366	0.369		
	0.376								0.324	14.6
Ethyl Methacrylate	0.137	0.134	0.152	0.170	0.190	0.232	0.223	0.241		
	0.241								0.191	23.3#
1,1,2-Trichloroethane	0.178	0.188	0.191	0.198	0.201	0.205	0.192	0.198		
	0.198								0.194	4.2
4-Bromofluorobenzene				0.473	0.457	0.484	0.433	0.421		
	0.421								0.448	6.1

Initial Calibration - Detailed Report

Calibration ID: CAL786
Method ID: MJ162

Instrument ID: MSVOA10
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	6442 6450	6443	6444	6445	6446	6447	6448	6449		
Tetrachloroethene (PCE)	0.261 0.248	0.235	0.256	0.251	0.257	0.253	0.247	0.237	0.249	3.5
2-Hexanone	0.122			0.093	0.098	0.116	0.109	0.124	0.110	11.5
1,3-Dichloropropane	0.374 0.381	0.378	0.359	0.377	0.394	0.399	0.376	0.378	0.379	3.1
Dibromochloromethane	0.255 0.304	0.275	0.267	0.276	0.289	0.307	0.297	0.300	0.286	6.4
1,2-Dibromoethane (EDB)	0.213 0.231	0.205	0.215	0.217	0.226	0.236	0.223	0.229	0.222	4.4
Chlorobenzene	0.865 0.810	0.818	0.827	0.853	0.860	0.843	0.822	0.786	0.832	3.1
1,1,1,2-Tetrachloroethane	0.287 0.306	0.283	0.285	0.289	0.304	0.311	0.309	0.298	0.297	3.7
Ethylbenzene	0.410 0.425	0.374	0.415	0.420	0.436	0.447	0.435	0.414	0.420	5.0
m,p-Xylenes	0.452 0.501	0.458	0.506	0.526	0.556	0.550	0.530	0.497	0.508	7.2
o-Xylene	0.416 0.499	0.408	0.471	0.488	0.533	0.538	0.522	0.494	0.485	9.7
Styrene	0.663 0.869	0.690	0.793	0.851	0.916	0.925	0.896	0.859	0.829	11.5
Bromoform	0.146 0.197	0.167	0.168	0.159	0.170	0.190	0.185	0.195	0.175	10.0
Isopropylbenzene	1.027 1.352	1.024	1.188	1.261	1.345	1.392	1.368	1.320	1.253	11.4
Cyclohexanone	0.021			0.022	0.024	0.025	0.021	0.024	0.023	6.9
trans-1,4-Dichloro-2-butene	0.040 0.049	0.043	0.047	0.043	0.043	0.047	0.046	0.049	0.045	6.6
1,1,2,2-Tetrachloroethane	0.445 0.471	0.460	0.445	0.460	0.472	0.482	0.448	0.473	0.462	3.0
Bromobenzene	0.636 0.656	0.612	0.634	0.629	0.666	0.646	0.642	0.625	0.638	2.5
1,2,3-Trichloropropane	0.118 0.142	0.153	0.134	0.141	0.140	0.142	0.133	0.140	0.138	6.9
n-Propylbenzene	2.565 2.604	2.373	2.708	2.836	2.974	2.994	2.966	2.846	2.763	7.8
2-Chlorotoluene	1.636 1.809	1.529	1.704	1.735	1.823	1.807	1.798	1.727	1.730	5.6
4-Chlorotoluene	1.892 2.035	1.868	2.043	2.101	2.212	2.144	2.098	1.991	2.043	5.5
1,3,5-Trimethylbenzene	1.725 2.053	1.637	1.921	2.006	2.133	2.151	2.101	2.006	1.970	9.1
tert-Butylbenzene	1.398 1.809	1.266	1.474	1.604	1.720	1.782	1.762	1.703	1.613	11.9
1,2,4-Trimethylbenzene	1.637 2.169	1.710	1.927	2.104	2.230	2.235	2.202	2.119	2.037	11.1

Initial Calibration - Detailed Report

Calibration ID: CAL786
Method ID: MJ162

Instrument ID: MSVOA10
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	6442 6450	6443	6444	6445	6446	6447	6448	6449		
sec-Butylbenzene	2.034 2.459	1.916	2.291	2.401	2.548	2.591	2.555	2.457	2.361	10.1
4-Isopropyltoluene	1.789 2.229	1.706	1.898	2.078	2.191	2.238	2.241	2.149	2.058	10.1
1,3-Dichlorobenzene	1.227 1.288	1.207	1.243	1.241	1.329	1.286	1.272	1.241	1.259	3.0
1,4-Dichlorobenzene	1.366 1.299	1.277	1.327	1.290	1.323	1.309	1.283	1.252	1.303	2.6
n-Butylbenzene	1.626 1.850	1.455	1.629	1.810	1.918	1.979	1.934	1.824	1.781	9.8
1,2-Dichlorobenzene	1.181 1.164	1.133	1.216	1.200	1.243	1.228	1.173	1.136	1.186	3.3
1,2-Dibromo-3-chloropropane (DBP)	0.084 0.117	0.099	0.086	0.092	0.100	0.108	0.104	0.116	0.101	11.7
1,2,4-Trichlorobenzene	0.761 0.859	0.718	0.754	0.791	0.845	0.880	0.845	0.832	0.809	6.9
Hexachlorobutadiene	0.358 0.318	0.304	0.344	0.335	0.340	0.336	0.327	0.297	0.329	6.0
Naphthalene	1.130 1.776	1.175	1.258	1.468	1.635	1.839	1.703	1.823	1.534	18.5#
1,2,3-Trichlorobenzene	0.644 0.773	0.711	0.708	0.742	0.782	0.799	0.751	0.760	0.741	6.4

RSD Not Applicable. Compound being quantitated from curve. Included in Average RF summary for Average %RSD calculation.

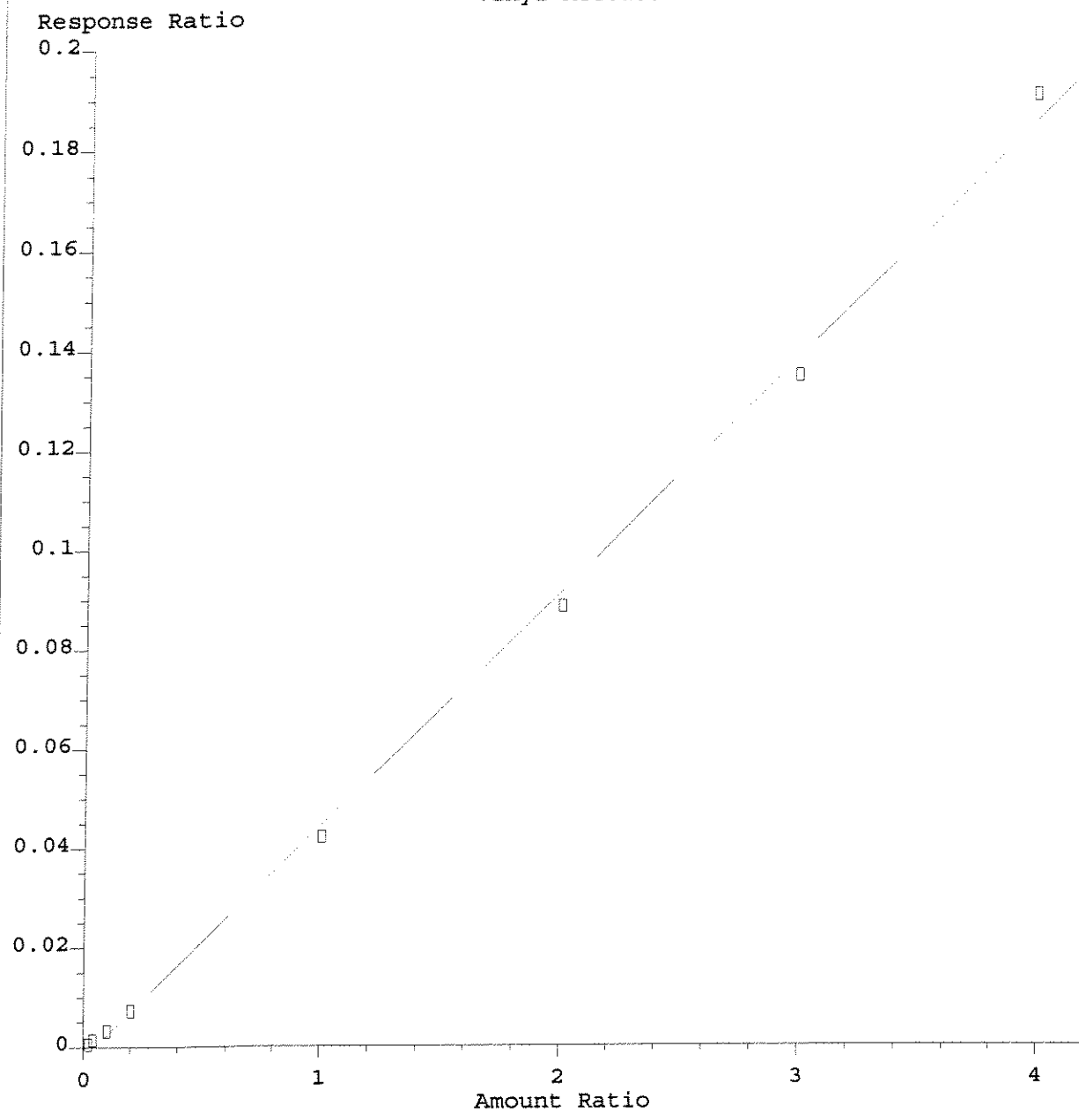
Initial Calibration - Detailed Report

Calibration ID:	CAL786	Instrument ID:	MSVOA10
Method ID:	MJ162	Column Name:	MS
		Calibration Fit:	Linear

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
6442	J:\ACQUDATA\msvoa10\data\062608\B0770.D	06/26/2008 13:21	06/30/2008 08:53	06/30/2008 10:43
6443	J:\ACQUDATA\msvoa10\data\062608\B0771.D	06/26/2008 13:51	06/30/2008 08:57	06/30/2008 10:43
6444	J:\ACQUDATA\msvoa10\data\062608\B0772.D	06/26/2008 14:21	06/30/2008 09:15	06/30/2008 10:43
6445	J:\ACQUDATA\msvoa10\data\062608\B0773.D	06/26/2008 14:50	06/30/2008 09:21	06/30/2008 10:43
6446	J:\ACQUDATA\msvoa10\data\062608\B0774.D	06/26/2008 15:22	06/30/2008 09:25	06/30/2008 10:43
6447	J:\ACQUDATA\msvoa10\data\062608\B0775.D	06/26/2008 15:52	06/30/2008 09:30	06/30/2008 10:43
6448	J:\ACQUDATA\msvoa10\data\062608\B0776.D	06/26/2008 16:49	06/30/2008 08:41	06/30/2008 10:43
6449	J:\ACQUDATA\msvoa10\data\062608\B0777.D	06/26/2008 17:19	06/30/2008 08:41	06/30/2008 10:43
6450	J:\ACQUDATA\msvoa10\data\062608\B0778.D	06/26/2008 17:49	06/30/2008 09:40	06/30/2008 10:43

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
Vinyl Acetate		0.047	-0.002	0.9983	0.039
Dibromofluoromethane		0.246	0.081	0.9991	0.297
Isobutyl Alcohol		0.007	-0.009	0.9954	0.006
Methyl Methacrylate		0.116	-0.003	0.9985	0.098
2-Chloroethyl Vinyl Ether		0.088	0.000	0.9971	0.074
Ethyl Methacrylate		0.241	-0.007	0.9990	0.191
Naphthalene		1.789	-0.019	0.9992	1.534

Vinyl Acetate

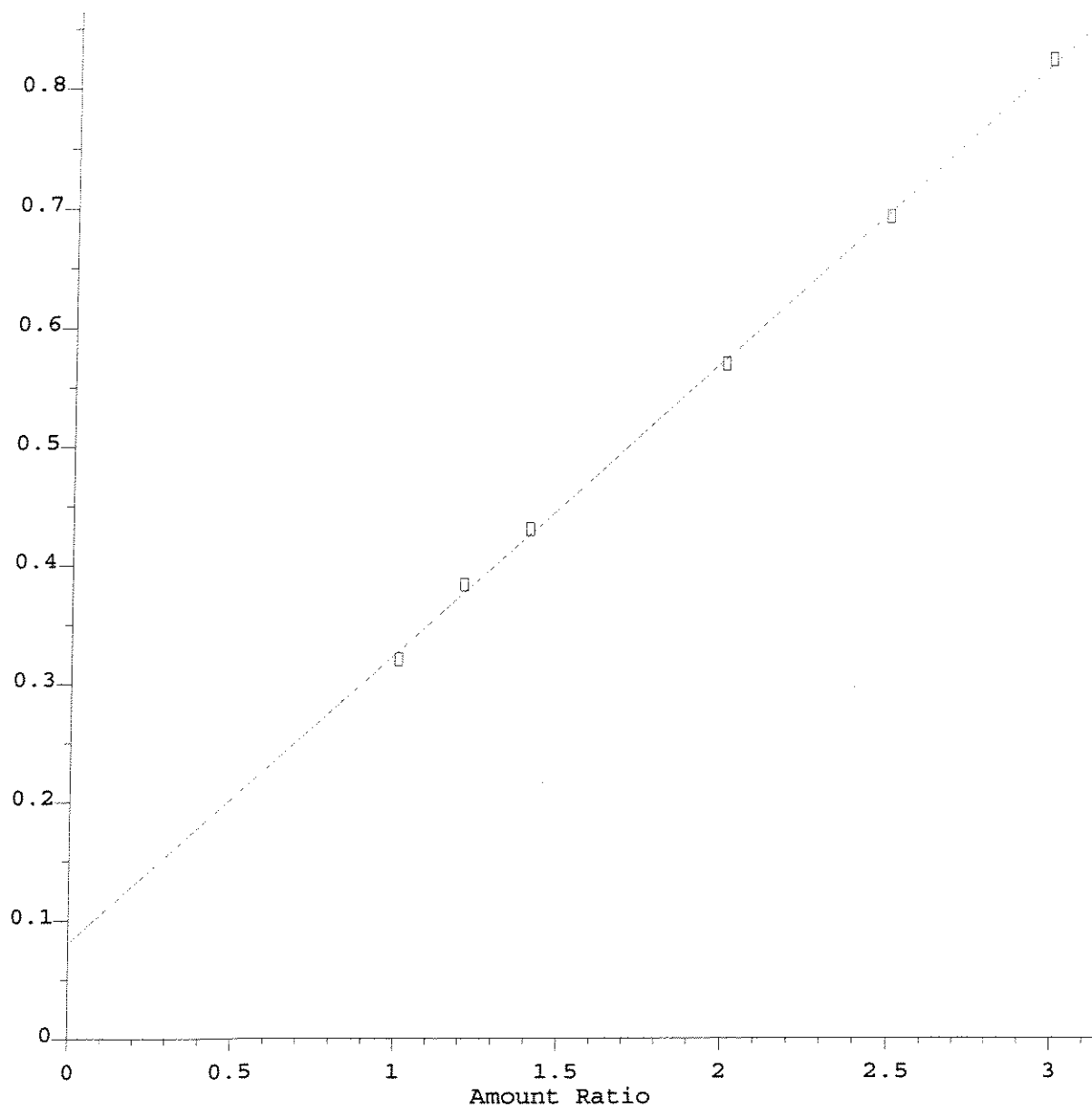


Resp Ratio = 4.70e-002 * Amt - 2.23e-003
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:47:35 2008

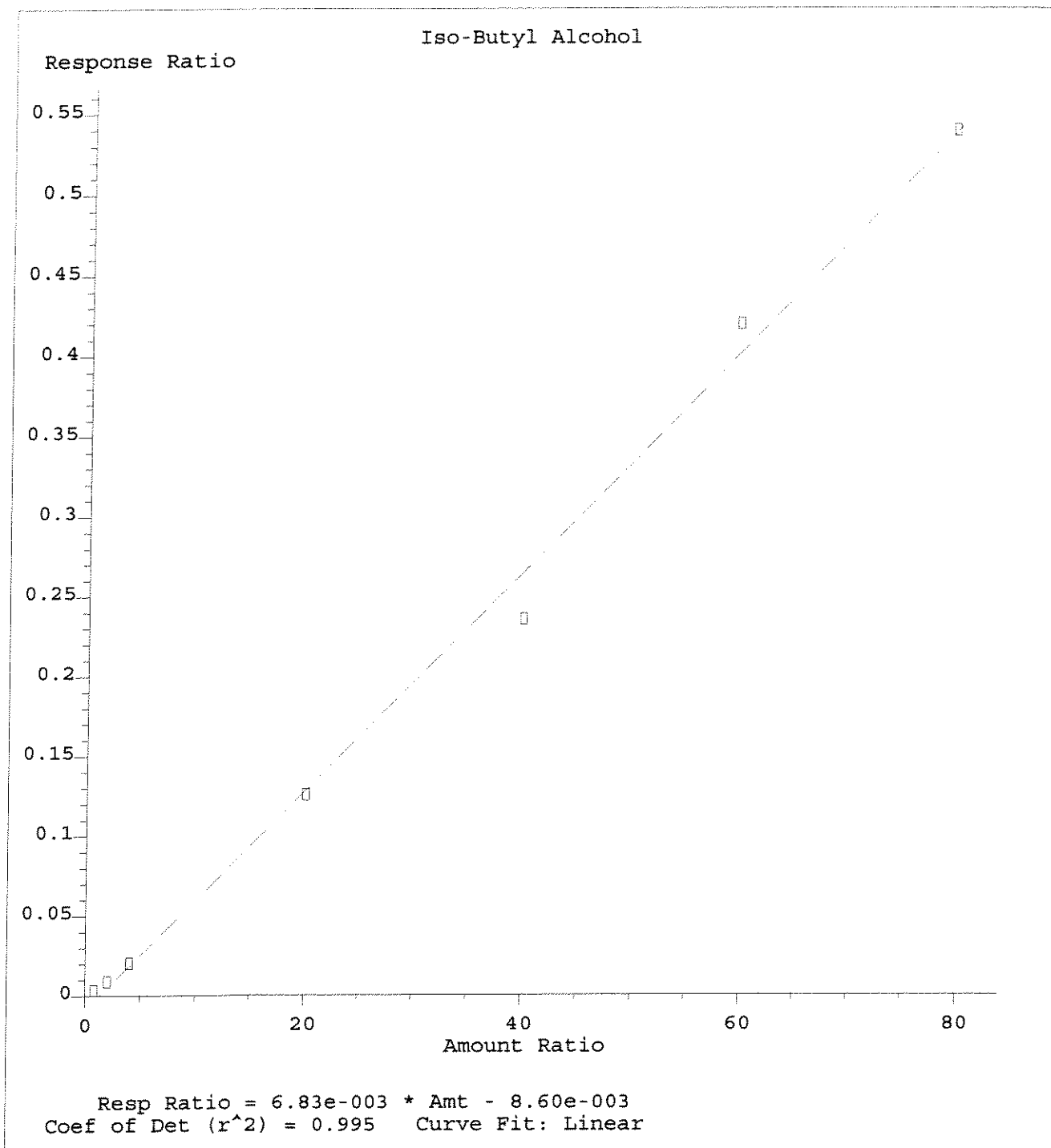
surr4,Dibrflmethane

Response Ratio



Resp Ratio = 2.46e-001 * Amt + 8.06e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

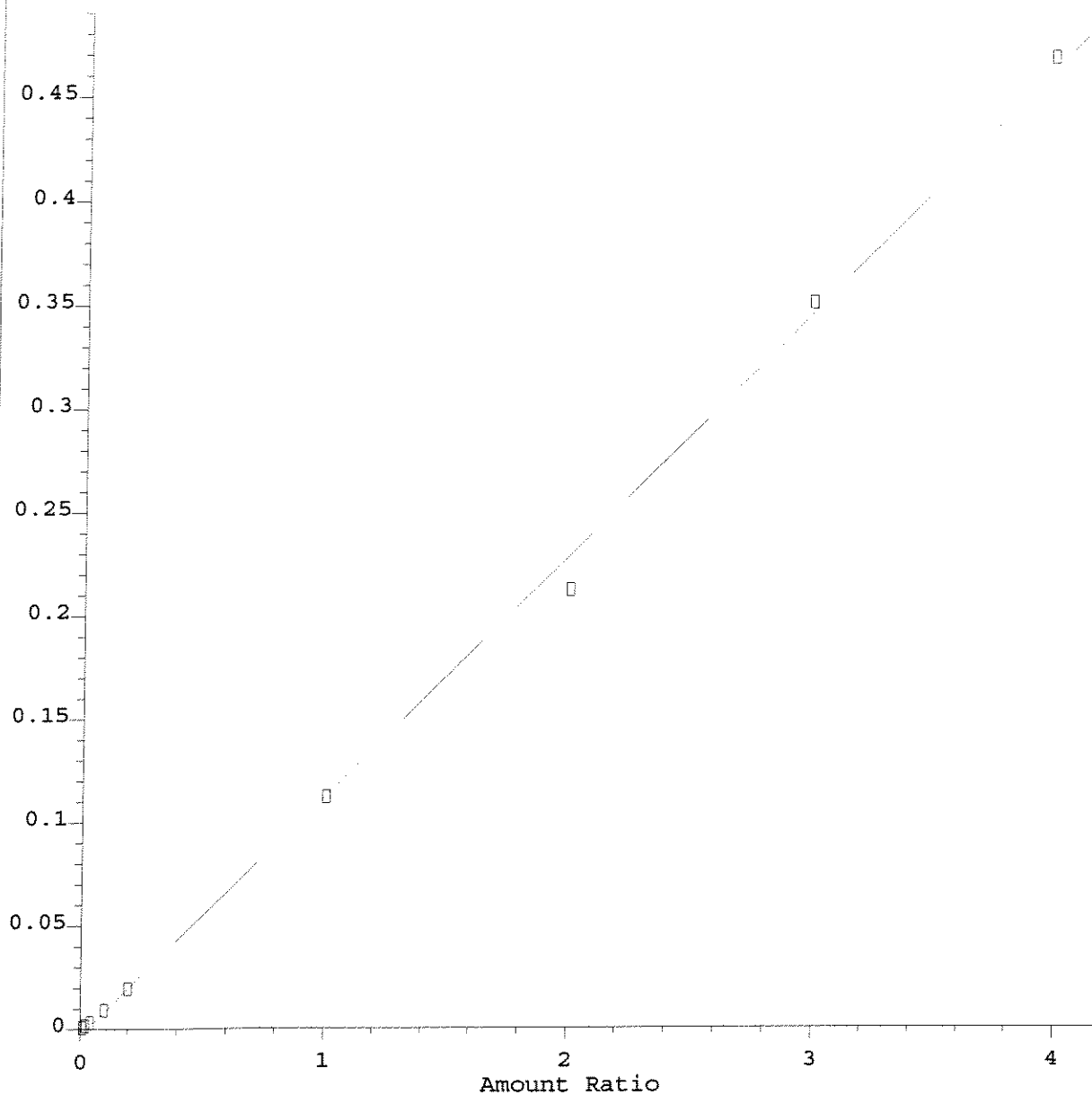
Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:52:22 2008



Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:53:15 2008

Methyl Methacrylate

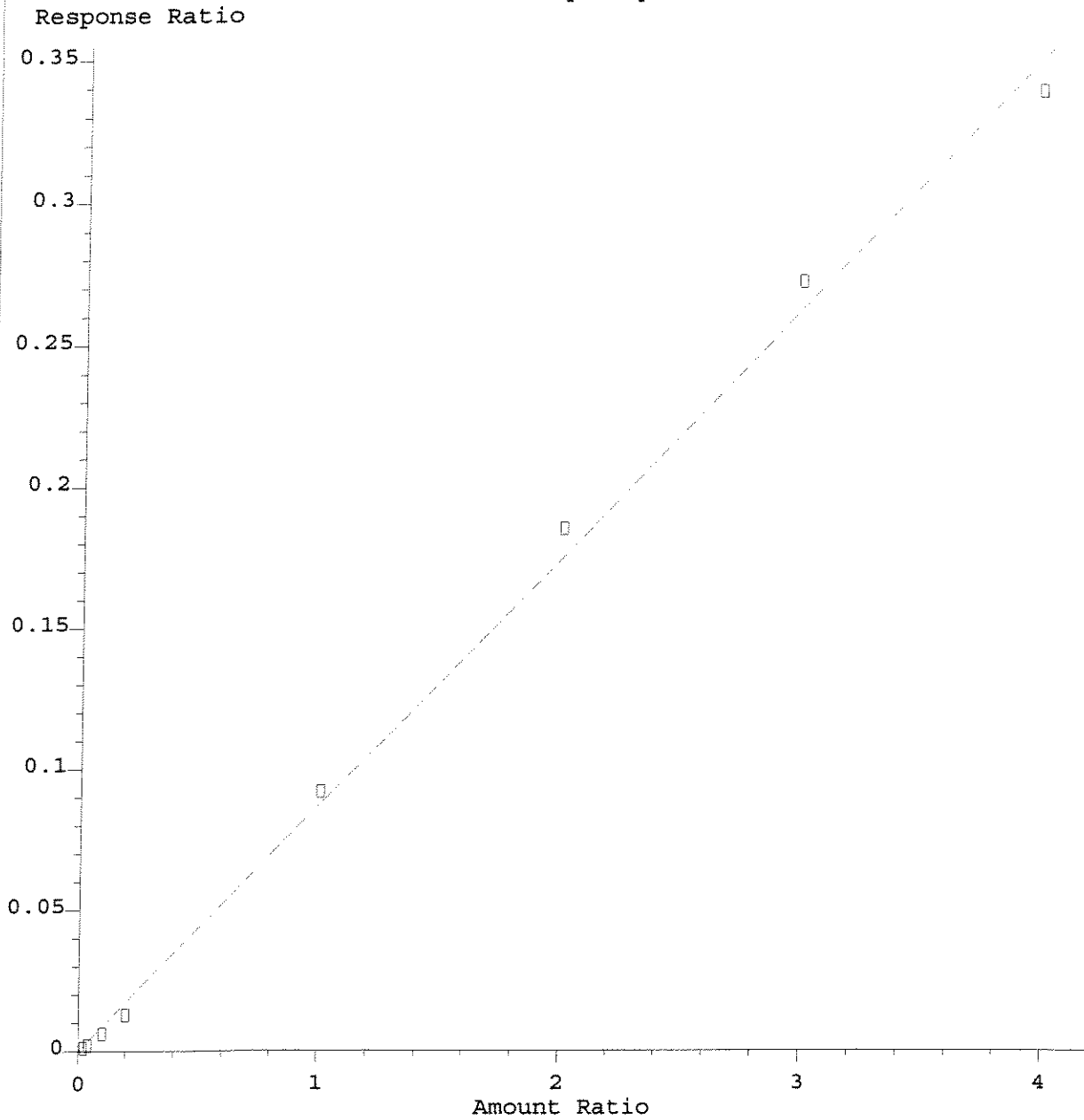
Response Ratio



Resp Ratio = 1.16e-001 * Amt - 3.37e-003
Coef of Det (r²) = 0.999 Curve Fit: Linear

Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:54:28 2008

2-Chloroethylvinyl Ether

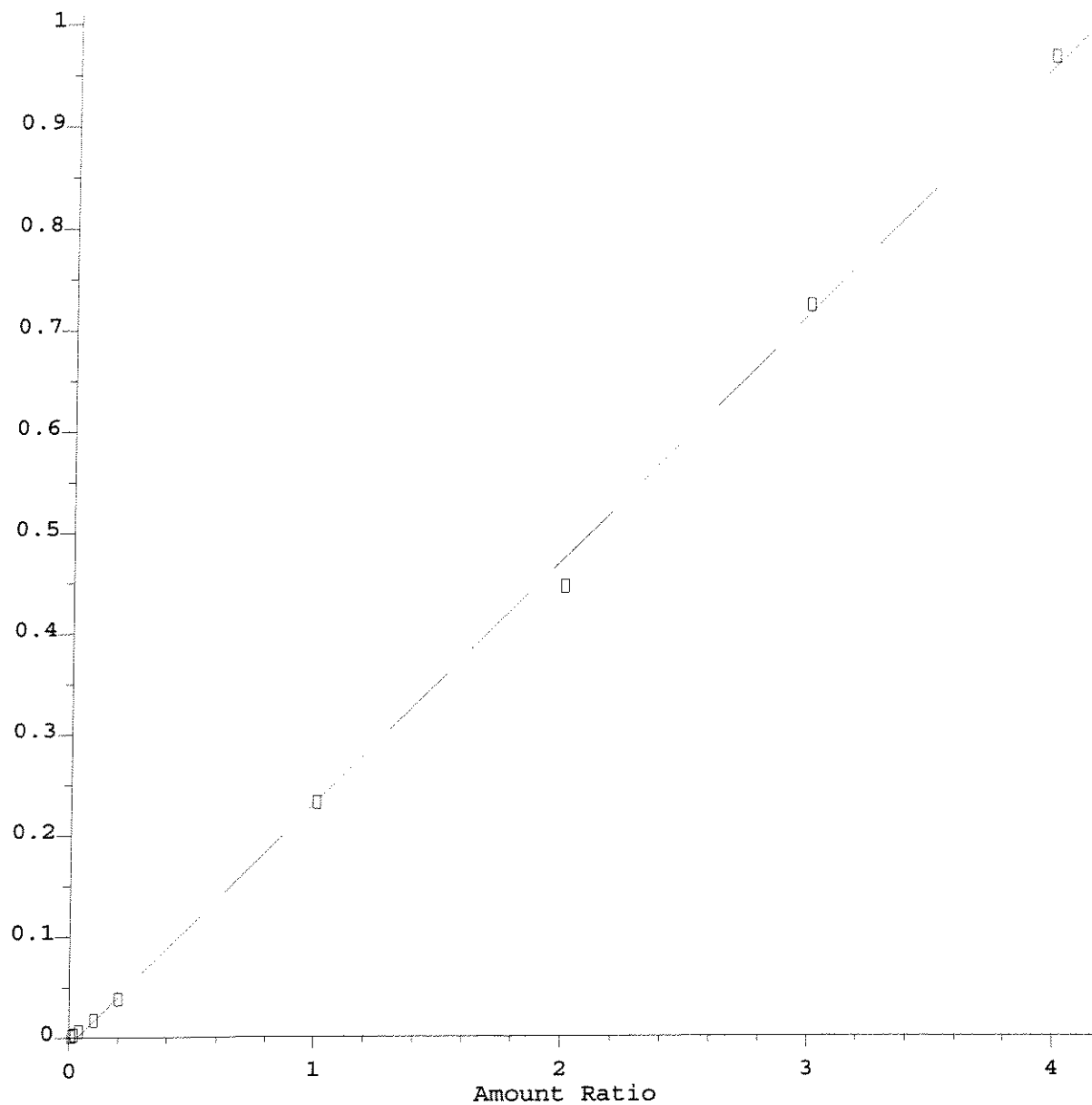


Resp Ratio = $8.77e-002 * Amt + 1.94e-004$
Coef of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:54:58 2008

Ethyl Methacrylate

Response Ratio

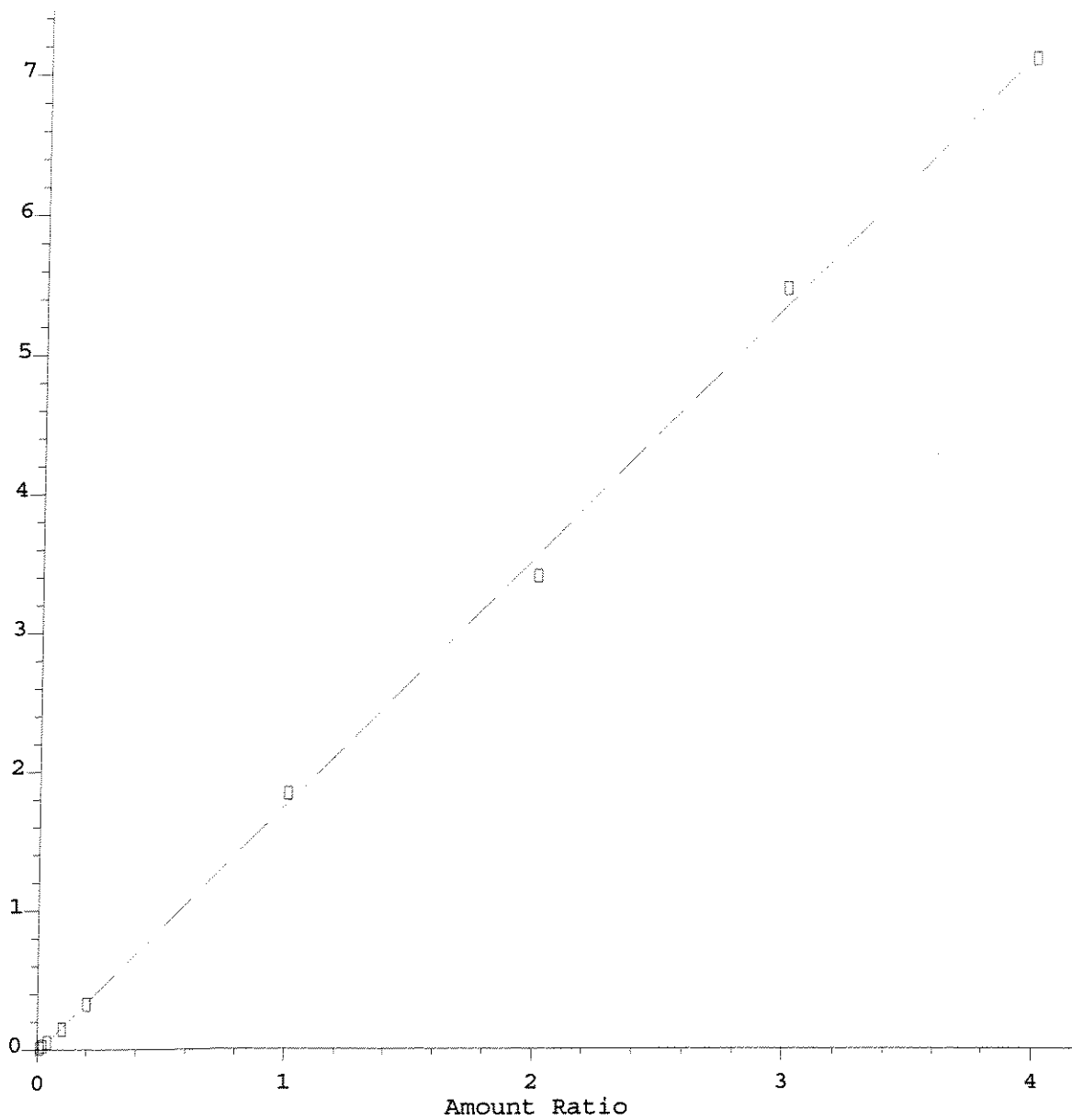


Resp Ratio = 2.41e-001 * Amt - 7.49e-003
Coef of Det (r²) = 0.999 Curve Fit: Linear

Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:55:58 2008

Naphthalen

Response Ratio



Resp Ratio = 1.79e+000 * Amt - 1.90e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:56:15 2008

FJ
6/30/08

Sample : 0.5 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
 Acq On : 26 Jun 2008 1:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 08:53:46 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1174539	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	1793617	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.854	117	1612678	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	898989	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	585177	54.92	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.84%		
49) surr1,1,2-dichloroetha...	4.885	65	614214	54.48	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.96%		
65) SURR3,Toluene-d8	7.445	98	2089736	53.52	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.04%		
70) SURR2,BFB	9.890	95	845204	52.57	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.14%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.184	85	5229	0.56	ug/L		98
4) Chloromethane	1.294	50	4812	0.55	ug/L		89
5) Vinyl Chloride	1.355	62	4623	0.51	ug/L		88
6) Bromomethane	1.556	94	3742	0.58	ug/L		90
7) Chloroethane	1.611	64	3131	0.63	ug/L		98
8) Freon 21	1.721	67	9007	0.53	ug/L		98
9) Trichlorofluoromethane	1.764	101	8794	0.56	ug/L		89
10) Diethyl Ether	1.934	59	2688	0.51	ug/L		87
11) Freon 123a	1.928	67	6002	0.59	ug/L		84
12) Freon 123	1.971	83	6779	0.55	ug/L #		86
13) Acrolein	2.026	56	1568	2.28	ug/L		94
14) 1,1-Dicethene	2.105	96	4218	0.53	ug/L		96
15) Freon 113	2.099	101	4469	0.53	ug/L		96
16) Acetone	2.117	43	1646	1.14	ug/L		86
17) 2-Propanol	2.196	45	2587	8.40	ug/L #		76
18) Iodomethane	2.215	142	5272	0.41	ug/L		100
19) Carbon Disulfide	2.276	76	17816	0.59	ug/L #		93
21) Allyl Chloride	2.355	76	2370	0.54	ug/L		94
22) Methyl Acetate	2.355	43	2357	0.56	ug/L #		88
23) Methylene Chloride	2.446	84	6178	0.63	ug/L		95
24) TBA	2.501	59	4763	9.74	ug/L		83
25) Acrylonitrile	2.641	53	4355	2.18	ug/L		84
26) Methyl-t-Butyl Ether	2.666	73	8951	0.45	ug/L		100
27) trans-1,2-Dichloroethene	2.672	96	4665	0.51	ug/L		90
28) 1,1-Dicethane	3.062	63	8706	0.52	ug/L #		92
30) DIPE	3.117	45	10554	0.43	ug/L		97
31) 2-Chloro-1,3-Butadiene	3.154	53	5810	0.45	ug/L		97
32) ETBE	3.519	59	9522	0.42	ug/L		94
33) 2,2-Dichloropropane	3.696	77	5985	0.50	ug/L #		87
34) cis-1,2-Dichloroethene	3.696	96	5254	0.54	ug/L #		75
35) 2-Butanone	3.720	43	1384	0.57	ug/L #		73
37) Propionitrile	3.794	54	1685	2.24	ug/L		94
38) Bromochloromethane	4.007	130	3591	0.59	ug/L		81
39) Methacrylonitrile	3.995	67	885	0.42	ug/L		97
40) Tetrahydrofuran	4.086	42	631	0.45	ug/L		93

Sample : 0.5 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
 Acq On : 26 Jun 2008 1:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 08:53:46 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Chloroform	4.123	83	8710	0.51	ug/L	98
42) 1,1,1-Trichloroethane	4.373	97	7610	0.50	ug/L	87
43) TAME	5.202	73	7714	0.39	ug/L #	61
45) Cyclohexane	4.458	41	3700	0.49	ug/L #	79
47) Carbontetrachloride	4.635	121	2366	0.53	ug/L	97
48) 1,1-Dichloropropene	4.641	75	6374	0.50	ug/L #	87
50) Benzene	4.989	78	18340	0.51	ug/L #	89
51) 1,2-Dichloroethane	5.019	62	6452	0.52	ug/L #	87
53) n-Heptane	5.482	43	3651	0.49	ug/L #	81
54) Trichloroethene	5.988	130	5391	0.54	ug/L	91
55) Methylcyclohexane	6.232	55	4921	0.45	ug/L #	80
56) 1,2-Dichloropropane	6.281	63	4362	0.48	ug/L #	74
57) Dibromomethane	6.433	93	2795	0.53	ug/L	96
59) Methyl Methacrylate	6.482	69	1339	0.38	ug/L #	95
60) Bromodichloromethane	6.641	83	6632	0.51	ug/L	97
62) 2-Chloroethylvinyl Ether	7.025	63	684	0.26	ug/L	94
63) cis-1,3-Dichloropropene	7.165	75	5735	0.42	ug/L	91
64) 4-Methyl-2-pentanone	7.354	43	1720	0.34	ug/L #	83
66) Toluene	7.519	91	20682	0.52	ug/L	91
67) trans-1,3-Dichloropropene	7.762	75	4667	0.40	ug/L	95
68) Ethyl Methacrylate	7.884	69	2465	0.36	ug/L	92
69) 1,1,2-Trichloroethane	7.945	97	3188	0.46	ug/L	86
72) Tetrachloroethene	8.073	164	4209	0.52	ug/L	92
73) 2-Hexanone	8.220	43	1090	0.31	ug/L	95
74) 1,3-Dichloropropane	8.110	76	6031	0.49	ug/L #	80
75) Dibromochloromethane	8.317	129	4110	0.45	ug/L	96
76) 1,2-Dibromoethane	8.421	107	3443	0.48	ug/L #	95
77) Chlorobenzene	8.878	112	13956	0.52	ug/L	98
78) 1,1,1,2-Tetrachloroethane	8.963	131	4630	0.48	ug/L	98
79) Ethylbenzene	8.994	106	6612	0.49	ug/L	95
80) (m+p)Xylene	9.097	106	14587	0.89	ug/L	88
81) o-Xylene	9.445	106	6703	0.43	ug/L	98
82) Styrene	9.463	104	10688	0.40	ug/L	93
83) Bromoform	9.616	173	2353	0.42	ug/L	91
84) Isopropylbenzene	9.768	105	16556	0.41	ug/L	95
85) Cyclohexanone	9.841	55	5254	7.18	ug/L	94
86) trans-1,4-Dichloro-2-B...	10.073	53	643m	0.44	ug/L	
88) 1,1,2,2-Tetrachloroethane	10.024	83	3999	0.48	ug/L	92
89) Bromobenzene	10.018	156	5721	0.50	ug/L	93
91) 1,2,3-Trichloropropane	10.055	110	1058	0.43	ug/L #	72
92) n-Propylbenzene	10.116	91	23058	0.46	ug/L	98
93) 2-Chlorotoluene	10.183	91	14707	0.47	ug/L	95
94) 4-Chlorotoluene	10.274	91	17012m	0.47	ug/L	
95) 1,3,5-Trimethylbenzene	10.268	105	15512	0.44	ug/L	96
96) tert-Butylbenzene	10.530	119	12565	0.43	ug/L	94
97) 1,2,4-Trimethylbenzene	10.573	105	14715	0.40	ug/L	98
98) sec-Butylbenzene	10.707	105	18289	0.43	ug/L	97
99) p-Isopropyltoluene	10.829	119	16081	0.43	ug/L	98
100) 1,3-Dichlorobenz	10.792	146	11031	0.49	ug/L	97
101) 1,4-Dichlorobenz	10.865	146	12283	0.52	ug/L	92
103) n-Butylbenzene	11.158	91	14622	0.46	ug/L	92
104) 1,2-Dichlorobenz	11.164	146	10621	0.50	ug/L	95

Sample : 0.5 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
 Acq On : 26 Jun 2008 1:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 08:53:46 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,2-Dibromo-3-chloropr...	11.719	157	758	0.42	ug/L	90
107) 1,2,4-Tcbenzene	12.237	180	6841	0.47	ug/L	97
108) Hexachlorobt	12.335	225	3221	0.55	ug/L	97
109) Naphthalen	12.377	128	10157	0.37	ug/L	96
110) 1,2,3-Tclbenzene	12.518	180	5790	0.43	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

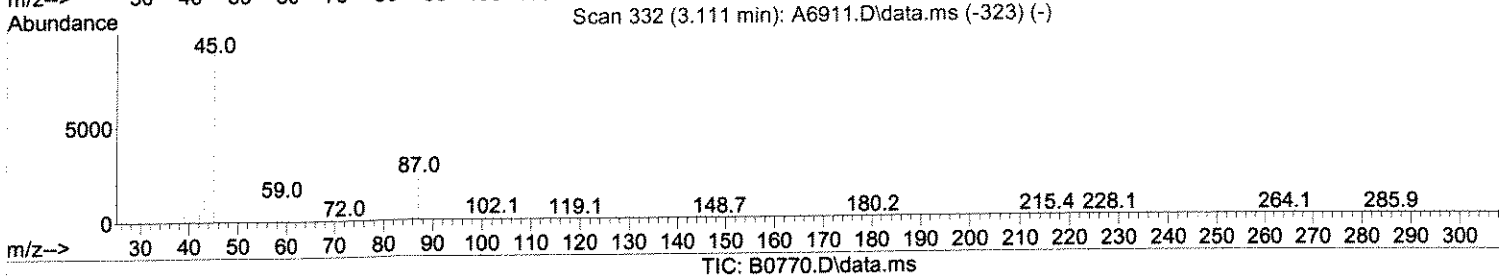
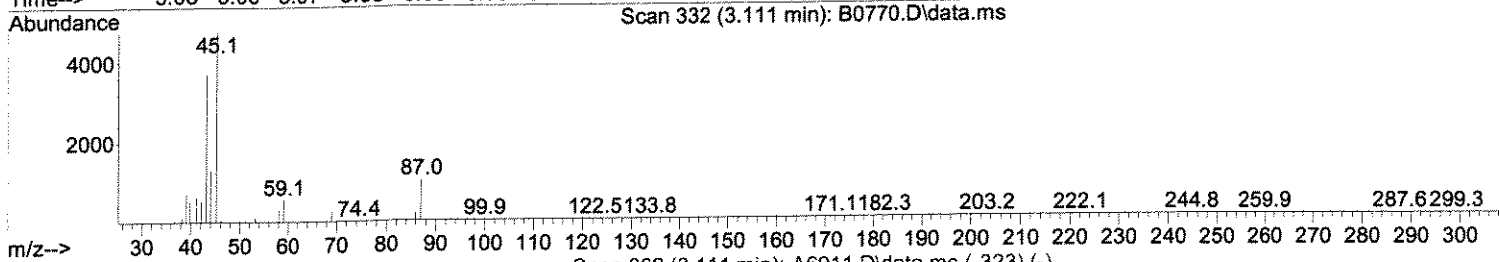
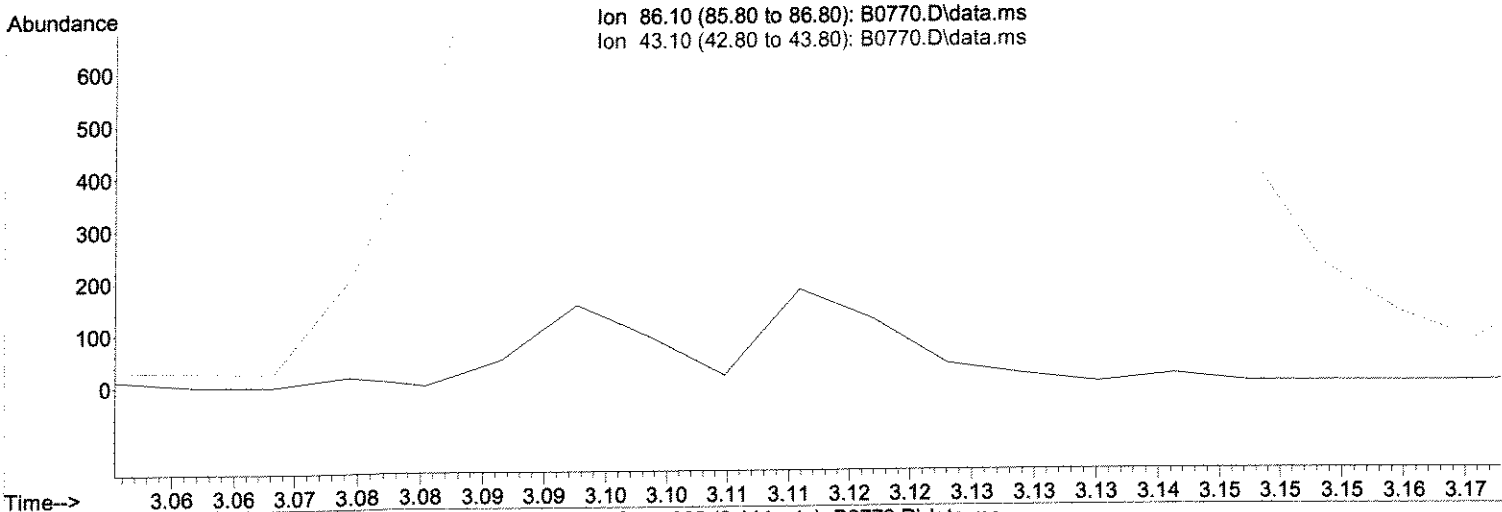
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
 Acq On : 26 Jun 2008 1:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
6/26/08

Quant Time: Jun 30 08:25:50 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 27 14:47:42 2008
 Response via : Initial Calibration

B.
missed peak



(29) Vinyl Acetate

3.110min (-3.110) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.10	100	0.00
43.10	1439.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

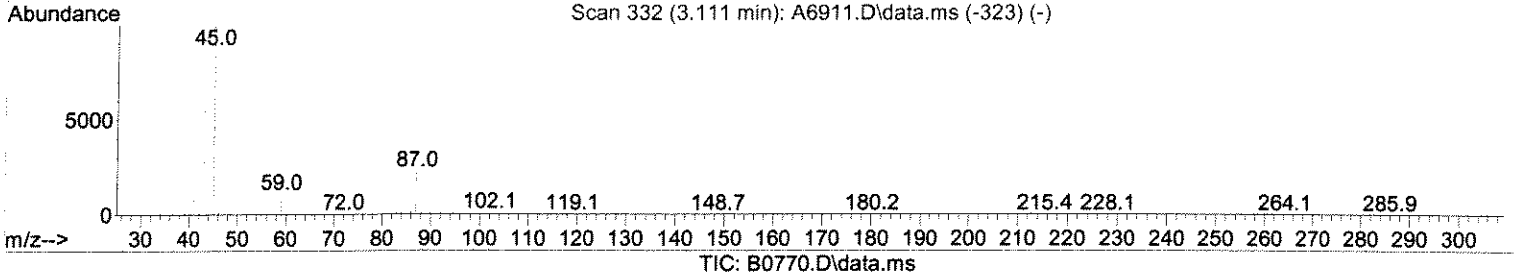
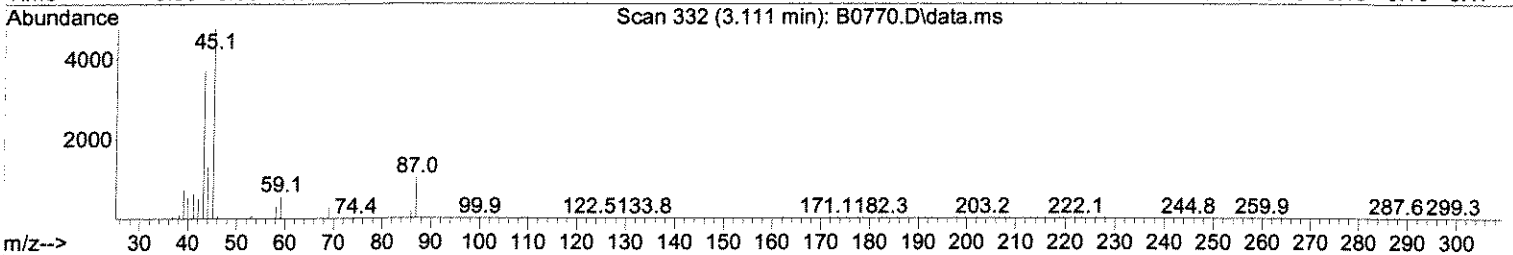
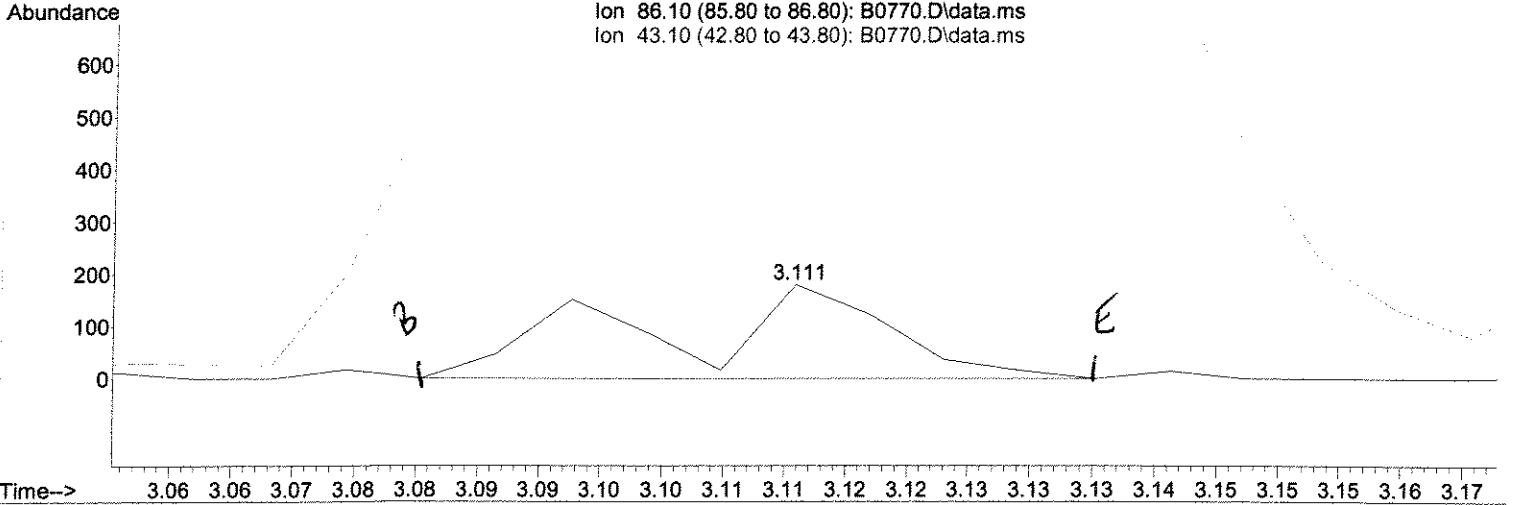
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
 Acq On : 26 Jun 2008 1:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

*FW
6/30/08*

Quant Time: Jun 30 08:25:50 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 27 14:47:42 2008
 Response via : Initial Calibration

*A
not used in ICAL*



(29) Vinyl Acetate

3.111min (+0.001) 0.26 ug/L m

response 241

Ion	Exp%	Act%
86.10	100	100
43.10	1439.70	2060.56
0.00	0.00	0.00
0.00	0.00	0.00

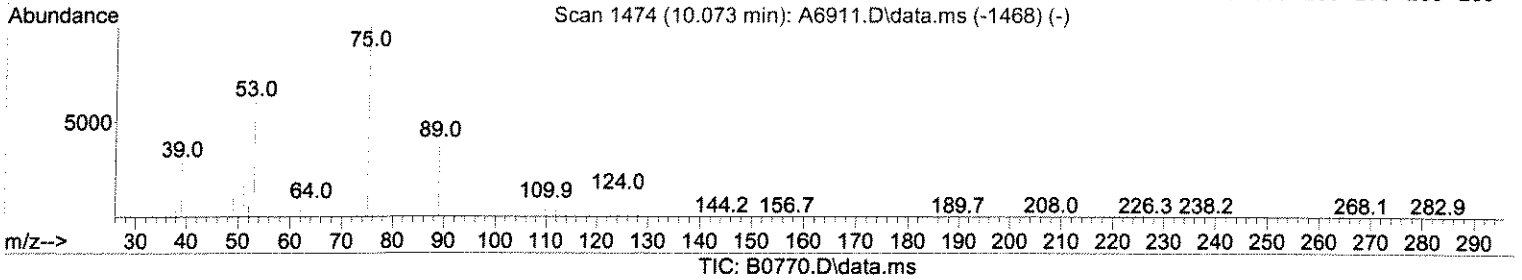
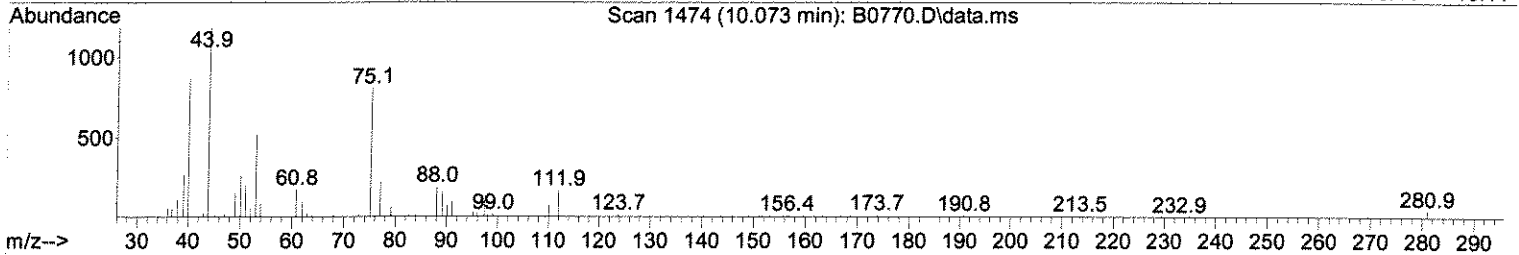
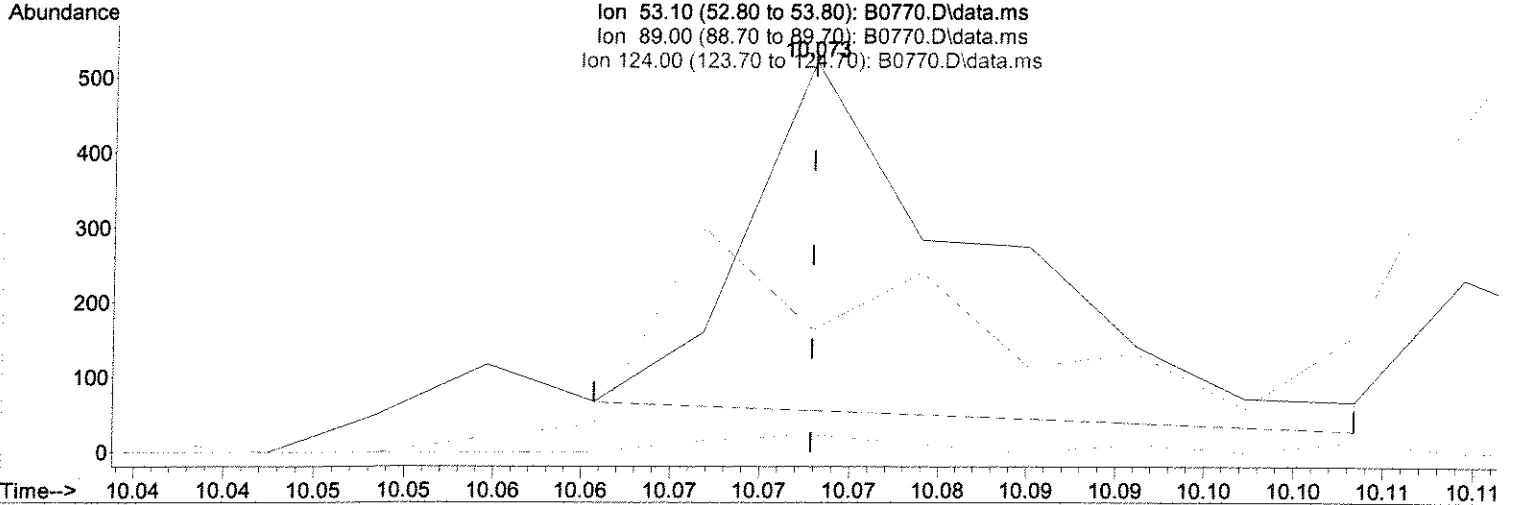
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
 Acq On : 26 Jun 2008 1:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FU
6/30/08

Quant Time: Jun 30 08:40:58 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

B
Bad int.



(86) trans-1,4-Dichloro-2-Butene

10.073min (+0.000) 0.30 ug/L

response 435

Ion	Exp%	Act%
53.10	100	100
89.00	58.70	31.48#
124.00	21.00	4.61#
0.00	0.00	0.00

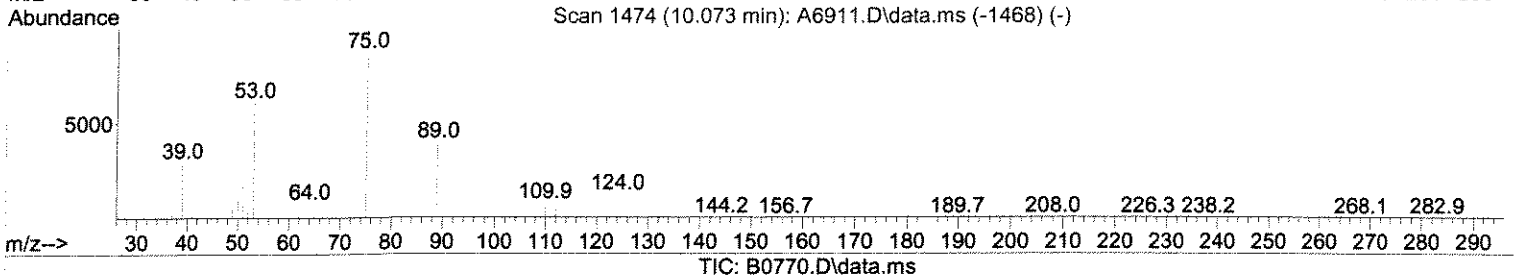
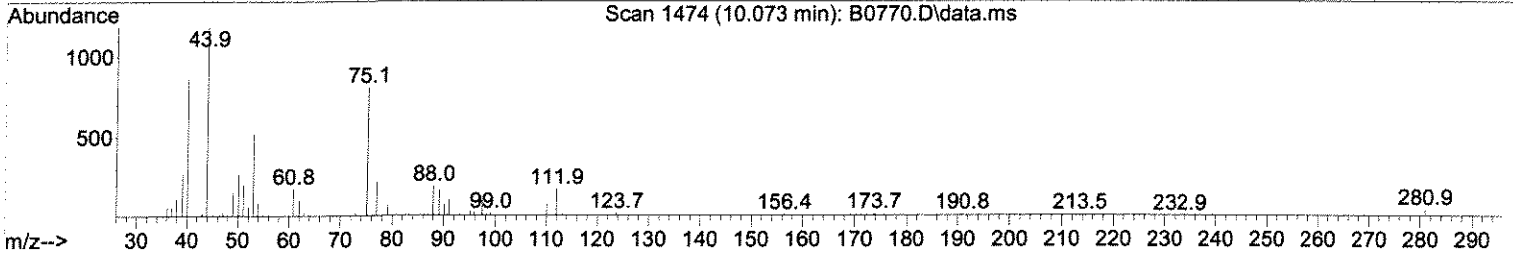
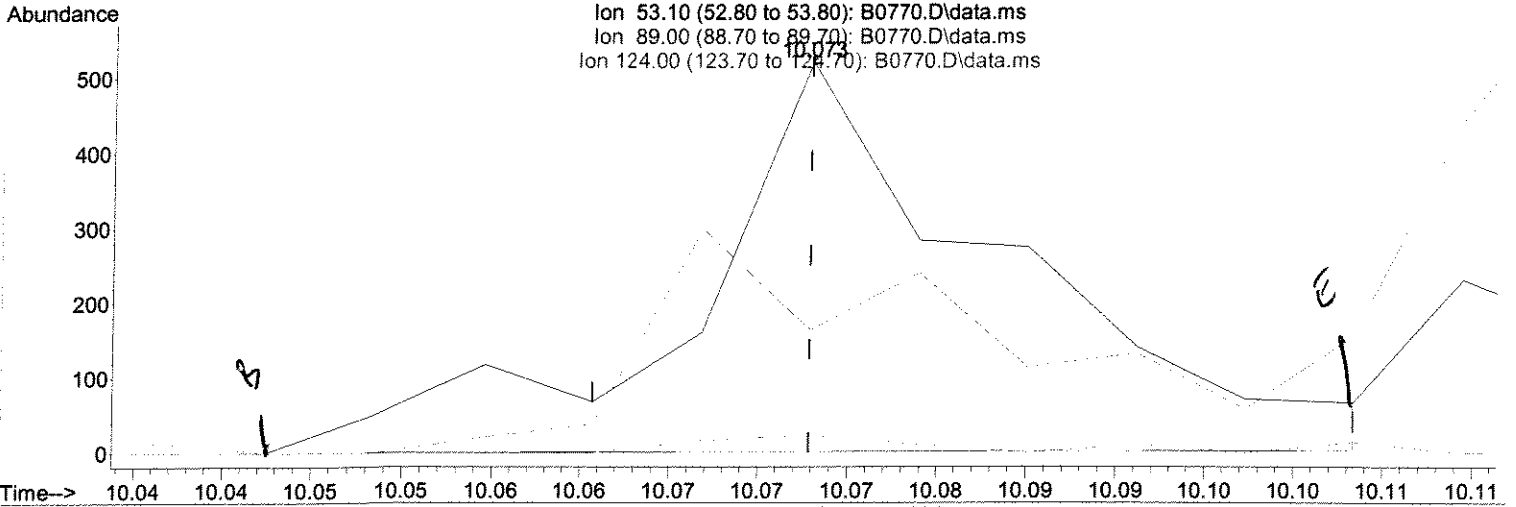
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
 Acq On : 26 Jun 2008 1:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

*FW
6/30/08*

Quant Time: Jun 30 08:40:58 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

A 027/10



(86) trans-1,4-Dichloro-2-Butene

10.073min (+0.000) 0.44 ug/L m

response 638

Ion	Exp%	Act%
53.10	100	100
89.00	58.70	31.48#
124.00	21.00	4.61#
0.00	0.00	0.00

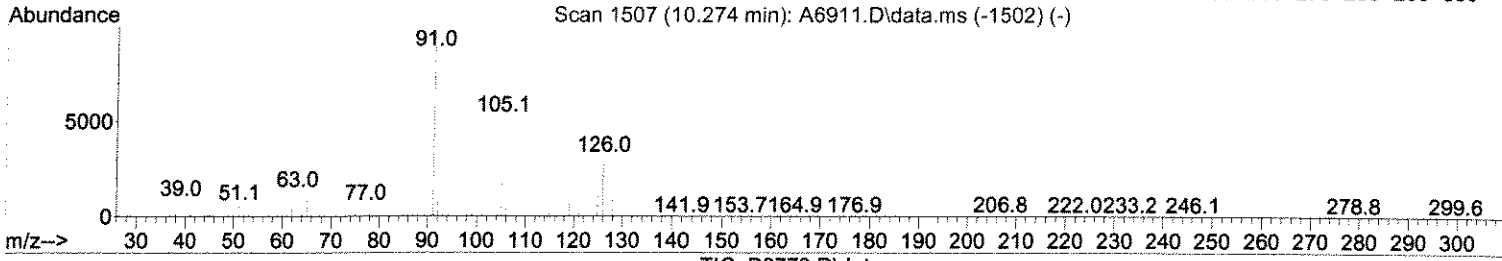
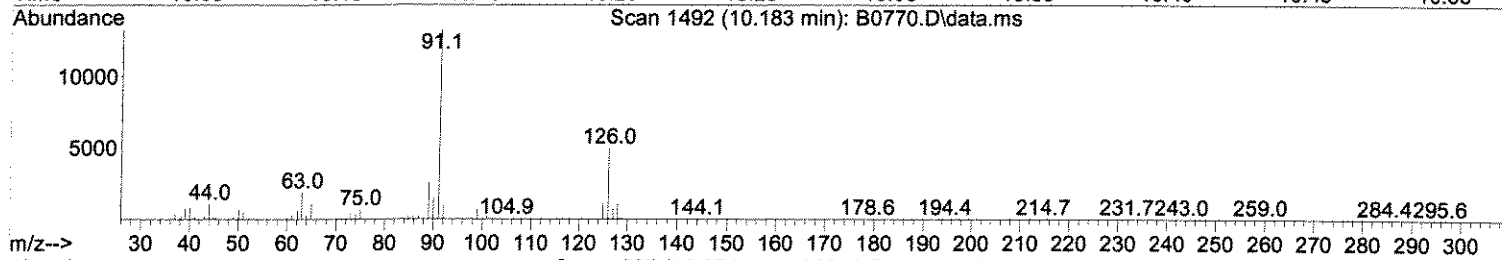
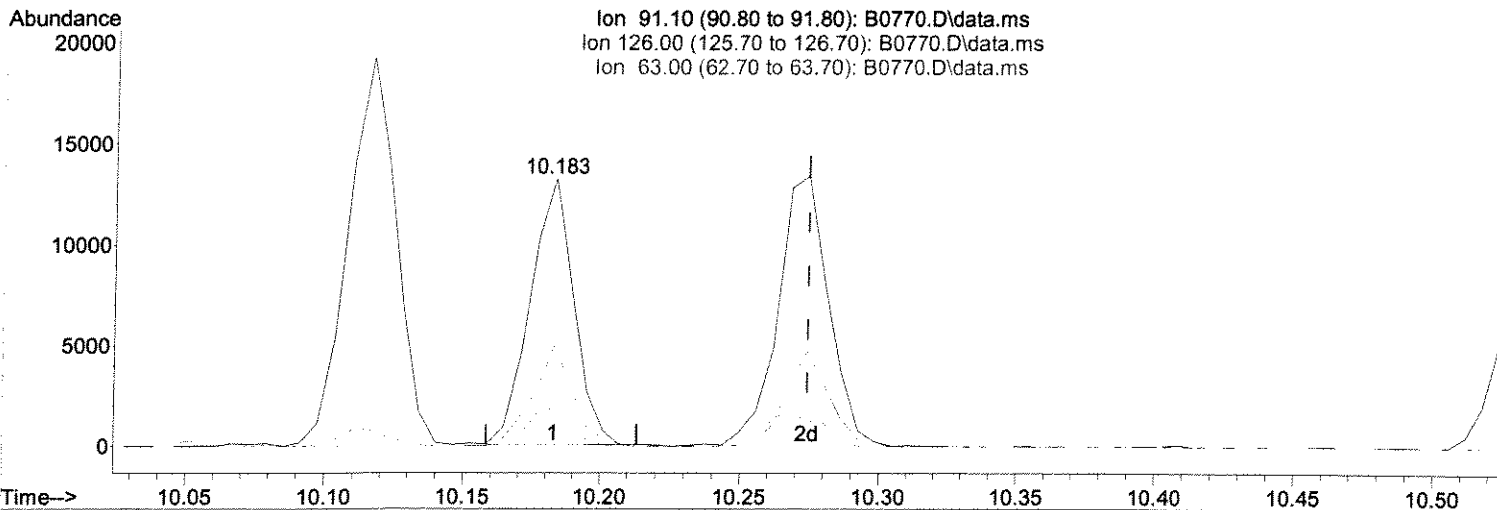
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
 Acq On : 26 Jun 2008 1:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

*FW
6/30/08*

Quant Time: Jun 30 08:40:58 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

*B
wrong peak*



(94) 4-Chlorotoluene

10.183min (-0.091) 0.41 ug/L

response 14707

Ion	Exp%	Act%
91.10	100	100
126.00	31.40	37.39
63.00	12.80	14.17
0.00	0.00	0.00

Quantitation Report (Qedit)

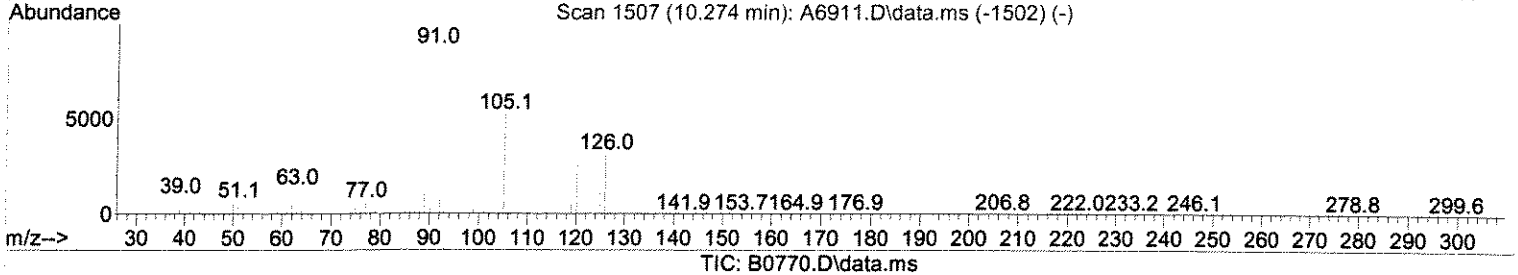
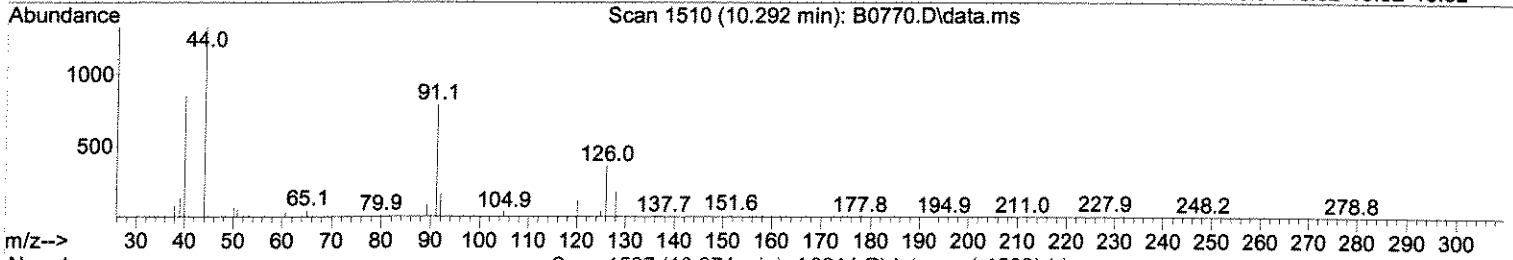
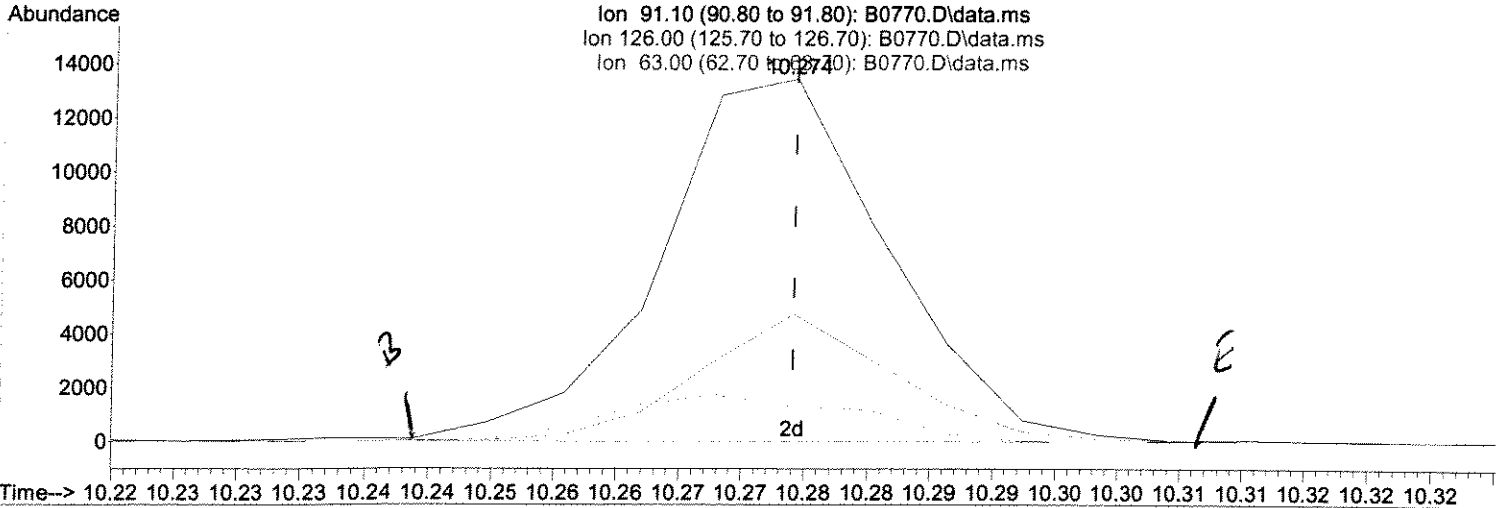
Sample : 0.5 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
 Acq On : 26 Jun 2008 1:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FR
6/30/08

Quant Time: Jun 30 08:40:58 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

A

827/19



(94) 4-Chlorotoluene
 10.274min (+0.000) 0.47 ug/L m
 response 17012

Ion	Exp%	Act%
91.10	100	100
126.00	31.40	35.26
63.00	12.80	9.68#
0.00	0.00	0.00

Sample : 1.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0771.D Vial: 5
 Acq On : 26 Jun 2008 1:51 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
6/30/08

Quant Time: Jun 30 08:57:46 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1178804	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	1801514	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.854	117	1637827	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	921300	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4, Dibrflmethane	4.348	113	590808	55.21	ug/L	0.00
Spiked Amount	50.000		Recovery	=	110.42%	
49) surr1, 1,2-dichloroetha...	4.891	65	634475	56.03	ug/L	0.00
Spiked Amount	50.000		Recovery	=	112.06%	
65) SURR3, Toluene-d8	7.445	98	2092494	53.36	ug/L	0.00
Spiked Amount	50.000		Recovery	=	106.72%	
70) SURR2, BFB	9.890	95	869159	53.82	ug/L	0.00
Spiked Amount	50.000		Recovery	=	107.64%	
Target Compounds						
2) Dichlorodifluoromethane	1.184	85	8766	0.93	ug/L	96
4) Chloromethane	1.294	50	8391	0.96	ug/L	95
5) Vinyl Chloride	1.355	62	8357	0.93	ug/L	95
6) Bromomethane	1.556	94	7641	1.18	ug/L	92
7) Chloroethane	1.611	64	5179	1.03	ug/L	97
8) Freon 21	1.721	67	16735	0.99	ug/L	100
9) Trichlorofluoromethane	1.770	101	15426	0.98	ug/L	97
10) Diethyl Ether	1.934	59	5539	1.04	ug/L	98
11) Freon 123a	1.934	67	9829	0.96	ug/L	98
12) Freon 123	1.971	83	11569	0.94	ug/L	95
13) Acrolein	2.026	56	3021	4.38	ug/L	84
14) 1,1-Diclcethene	2.105	96	7893	0.99	ug/L	92
15) Freon 113	2.093	101	8292	0.98	ug/L	82
16) Acetone	2.123	43	2817	1.94	ug/L	89
17) 2-Propanol	2.202	45	5094	16.47	ug/L #	91
18) Iodomethane	2.221	142	9276	0.73	ug/L	96
19) Carbon Disulfide	2.276	76	30097	0.99	ug/L #	99
20) Acetonitrile	2.324	40	826	4.06	ug/L #	45
21) Allyl Chloride	2.361	76	3838	0.87	ug/L	89
22) Methyl Acetate	2.361	43	4216	0.99	ug/L #	92
23) Methylene Chloride	2.446	84	10872	1.10	ug/L	98
24) TBA	2.507	59	8519	17.36	ug/L	83
25) Acrylonitrile	2.641	53	9664	4.82	ug/L	98
26) Methyl-t-Butyl Ether	2.666	73	18583	0.92	ug/L #	95
27) trans-1,2-Dichloroethene	2.678	96	8951	0.98	ug/L	97
28) 1,1-Diclcethane	3.062	63	16313	0.97	ug/L	95
29) Vinyl Acetate	3.111	86	643	0.69	ug/L	83
30) DIPE	3.117	45	22224	0.91	ug/L	99
31) 2-Chloro-1,3-Butadiene	3.160	53	11494	0.88	ug/L	90
32) ETBE	3.519	59	19430	0.85	ug/L	94
33) 2,2-Dichloropropane	3.702	77	10530	0.88	ug/L #	93
34) cis-1,2-Dichloroethene	3.702	96	9138	0.93	ug/L	92
35) 2-Butanone	3.708	43	2693	1.10	ug/L #	98
37) Propionitrile	3.806	54	3030	4.02	ug/L	91
38) Bromochloromethane	4.001	130	6262	1.02	ug/L	93

Sample : 1.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0771.D Vial: 5
 Acq On : 26 Jun 2008 1:51 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 08:57:46 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	4.001	67	1737	0.83	ug/L	97
40) Tetrahydrofuran	4.074	42	1438	1.02	ug/L #	85
41) Chloroform	4.123	83	16599	0.97	ug/L	98
42) 1,1,1-Trichloroethane	4.391	97	14834	0.97	ug/L #	1
43) TAME	5.214	73	16619	0.85	ug/L	99
45) Cyclohexane	4.464	41	7298	0.97	ug/L	100
47) Carbontetrachloride	4.635	121	4338	0.97	ug/L	83
48) 1,1-Dichloropropene	4.641	75	11672	0.91	ug/L #	79
50) Benzene	4.988	78	34301	0.94	ug/L #	93
51) 1,2-Dichloroethane	5.025	62	12660	1.01	ug/L	98
52) Iso-Butyl Alcohol	4.897	43	2965	14.42	ug/L	89
53) n-Heptane	5.476	43	5938	0.80	ug/L #	83
54) Trichloroethene	5.988	130	9460	0.95	ug/L	88
55) Methylcyclohexane	6.232	55	9641	0.89	ug/L #	77
56) 1,2-Diclpropane	6.281	63	8505	0.94	ug/L	99
57) Dibromomethane	6.427	93	5418	1.03	ug/L	94
59) Methyl Methacrylate	6.488	69	2895	0.82	ug/L	94
60) Bromodichloromethane	6.641	83	12675	0.97	ug/L	98
62) 2-Chloroethylvinyl Ether	7.031	63	1976	0.74	ug/L #	80
63) cis-1,3-Dichloropropene	7.165	75	12226	0.90	ug/L	94
64) 4-Methyl-2-pentanone	7.360	43	4481	0.89	ug/L #	93
66) Toluene	7.518	91	38857	0.98	ug/L	98
67) trans-1,3-Dichloropropene	7.768	75	10077	0.86	ug/L	95
68) Ethyl Methacrylate	7.890	69	4828	0.70	ug/L #	79
69) 1,1,2-Trichloroethane	7.945	97	6784	0.97	ug/L	90
72) Tetrachloroethene	8.073	164	7693	0.94	ug/L	94
73) 2-Hexanone	8.213	43	2599	0.72	ug/L	98
74) 1,3-Dichloropropane	8.104	76	12368	1.00	ug/L #	88
75) Dibromochloromethane	8.323	129	9005	0.96	ug/L	87
76) 1,2-Dibromoethane	8.415	107	6715	0.92	ug/L	100
77) Chlorobenzene	8.884	112	26801	0.98	ug/L	97
78) 1,1,1,2-Tetrachloroethane	8.963	131	9274	0.95	ug/L	95
79) Ethylbenzene	8.994	106	12266	0.89	ug/L	93
80) (m+p)Xylene	9.097	106	29986	1.80	ug/L	96
81) o-Xylene	9.445	106	13362	0.84	ug/L	96
82) Styrene	9.463	104	22608	0.83	ug/L	95
83) Bromoform	9.616	173	5476	0.95	ug/L	88
84) Isopropylbenzene	9.768	105	33556	0.82	ug/L #	98
85) Cyclohexanone	9.841	55	11820	15.90	ug/L	98
86) trans-1,4-Dichloro-2-B...	10.073	53	1406	0.95	ug/L #	76
88) 1,1,2,2-Tetrachloroethane	10.024	83	8472	1.00	ug/L	94
89) Bromobenzene	10.012	156	11275	0.96	ug/L	88
91) 1,2,3-Trichloropropane	10.055	110	2821	1.11	ug/L	83
92) n-Propylbenzene	10.116	91	43732	0.86	ug/L #	96
93) 2-Chlorotoluene	10.183	91	28168	0.88	ug/L	98
94) 4-Chlorotoluene	10.274	91	34425	0.93	ug/L	100
95) 1,3,5-Trimethylbenzene	10.268	105	30155	0.83	ug/L	99
96) tert-Butylbenzene	10.530	119	23325	0.78	ug/L	98
97) 1,2,4-Trimethylbenzene	10.573	105	31511	0.84	ug/L	93
98) sec-Butylbenzene	10.713	105	35304	0.81	ug/L	99
99) p-Isopropyltoluene	10.829	119	31435	0.83	ug/L	97
100) 1,3-Dclbenz	10.798	146	22233	0.96	ug/L	98

Sample : 1.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0771.D Vial: 5
 Acq On : 26 Jun 2008 1:51 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

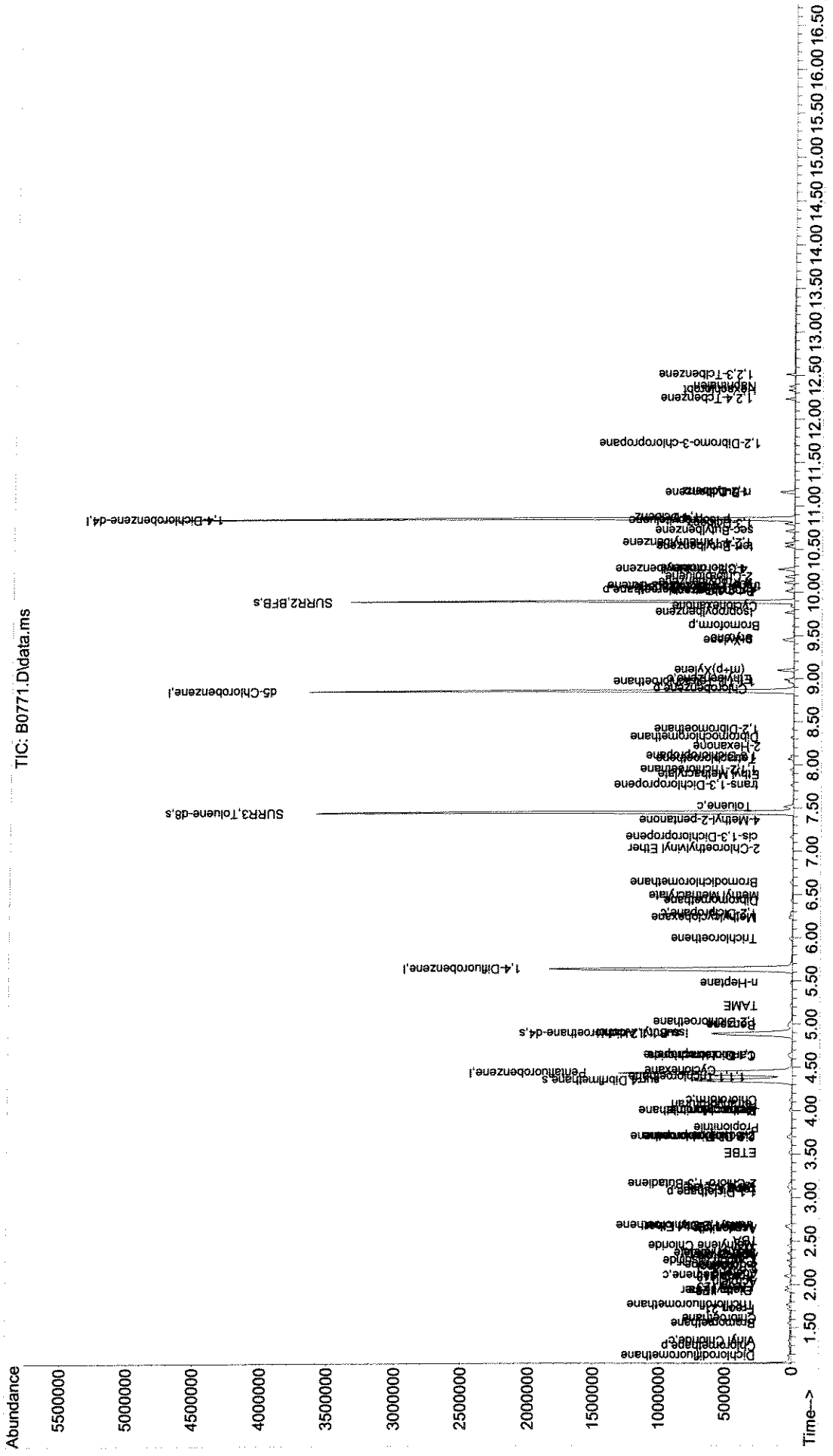
Quant Time: Jun 30 08:57:46 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,4-Dclbenz	10.865	146	23525	0.98	ug/L #	90
103) n-Butylbenzene	11.152	91	26818	0.82	ug/L	98
104) 1,2-Dclbenz	11.164	146	20879	0.96	ug/L	93
105) 1,2-Dibromo-3-chloropr...	11.719	157	1831	0.99	ug/L	90
107) 1,2,4-Tcbenzene	12.237	180	13224	0.89	ug/L	92
108) Hexachlorobt	12.335	225	5597	0.92	ug/L	98
109) Naphthalen	12.377	128	21657	0.77	ug/L	100
110) 1,2,3-Tclbenzene	12.511	180	13104	0.96	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : 1.0 PPB STD
 Data File : J:\ACQDATA\msvoa10\data\062608\B0771.D Vial: 5
 Acq On : 26 Jun 2008 1:51 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 08:57:46 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 Quant Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration



00521

Sample : 2.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
 Acq On : 26 Jun 2008 2:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
6/30/08

Quant Time: Jun 30 09:15:43 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1196113	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	1846682	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1665824	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	943002	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.355	113	597965	54.51	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.02%		
49) surr1,1,2-dichloroetha...	4.891	65	647508	55.78	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	111.56%		
65) SURR3,Toluene-d8	7.452	98	2145888	53.38	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.76%		
70) SURR2,BFB	9.896	95	885570	53.49	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.98%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.184	85	18240	1.91	ug/L		98
4) Chloromethane	1.294	50	17172	1.93	ug/L		90
5) Vinyl Chloride	1.355	62	18553	2.03	ug/L		93
6) Bromomethane	1.556	94	13807	2.11	ug/L		97
7) Chloroethane	1.611	64	10910	2.14	ug/L		97
8) Freon 21	1.721	67	35406	2.06	ug/L		98
9) Trichlorofluoromethane	1.770	101	34415	2.15	ug/L		100
10) Diethyl Ether	1.934	59	11305	2.09	ug/L		94
11) Freon 123a	1.934	67	21214	2.04	ug/L		88
12) Freon 123	1.971	83	26201	2.09	ug/L		99
13) Acrolein	2.026	56	6670	9.53	ug/L		94
14) 1,1-Dicethene	2.105	96	16375	2.03	ug/L		95
15) Freon 113	2.093	101	18794	2.18	ug/L		97
16) Acetone	2.123	43	3896	2.64	ug/L		90
17) 2-Propanol	2.203	45	10303m	32.83	ug/L		
18) Iodomethane	2.221	142	21949	1.70	ug/L		95
19) Carbon Disulfide	2.276	76	63972	2.07	ug/L		98
20) Acetonitrile	2.324	40	1949	9.44	ug/L	#	70
21) Allyl Chloride	2.361	76	9150	2.03	ug/L		83
22) Methyl Acetate	2.361	43	8303	1.92	ug/L		96
23) Methylene Chloride	2.446	84	20723	2.07	ug/L		98
24) TBA	2.507	59	16422	32.98	ug/L		93
25) Acrylonitrile	2.641	53	19769	9.72	ug/L		90
26) Methyl-t-Butyl Ether	2.666	73	38514	1.88	ug/L		98
27) trans-1,2-Dichloroethene	2.678	96	18552	2.01	ug/L		92
28) 1,1-Dicethane	3.062	63	35509	2.09	ug/L		95
29) Vinyl Acetate	3.105	86	1664	1.77	ug/L		89
30) DIPE	3.117	45	47143	1.90	ug/L		96
31) 2-Chloro-1,3-Butadiene	3.154	53	26458	2.00	ug/L		98
32) ETBE	3.519	59	42192	1.83	ug/L		99
33) 2,2-Dichloropropane	3.702	77	22782	1.87	ug/L		93
34) cis-1,2-Dichloroethene	3.702	96	19961	2.00	ug/L		95
35) 2-Butanone	3.721	43	4991	2.02	ug/L		96
37) Propionitrile	3.788	54	7425	9.70	ug/L		99
38) Bromochloromethane	4.013	130	12492	2.00	ug/L		95

Sample : 2.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
 Acq On : 26 Jun 2008 2:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:15:43 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
39) Methacrylonitrile	4.001	67	3888	1.82	ug/L	93
40) Tetrahydrofuran	4.080	42	2748	1.93	ug/L	91
41) Chloroform	4.123	83	35356	2.04	ug/L	98
42) 1,1,1-Trichloroethane	4.385	97	31971	2.06	ug/L #	80
43) TAME	5.214	73	33705	1.69	ug/L	99
45) Cyclohexane	4.470	41	16304	2.11	ug/L #	85
47) Carbontetrachloride	4.641	121	9062	1.98	ug/L	92
48) 1,1-Dichloropropene	4.647	75	27279	2.08	ug/L	98
50) Benzene	4.989	78	74808	2.01	ug/L #	95
51) 1,2-Dichloroethane	5.025	62	26196	2.04	ug/L	99
52) Iso-Butyl Alcohol	4.903	43	6667	31.63	ug/L #	77
53) n-Heptane	5.476	43	14254	1.87	ug/L	92
54) Trichloroethene	5.994	130	21026	2.06	ug/L	92
55) Methylcyclohexane	6.238	55	21822	1.96	ug/L	92
56) 1,2-Diclp propane	6.281	63	17461	1.88	ug/L	98
57) Dibromomethane	6.427	93	10915	2.02	ug/L	90
58) 1,4-Dioxane	6.494	88	2416m	40.58	ug/L	
59) Methyl Methacrylate	6.488	69	6015	1.67	ug/L	97
60) Bromodichloromethane	6.641	83	25651	1.92	ug/L #	97
62) 2-Chloroethylvinyl Ether	7.031	63	3654	1.34	ug/L	97
63) cis-1,3-Dichloropropene	7.165	75	24820	1.78	ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	8495	1.65	ug/L	93
66) Toluene	7.519	91	81823	2.01	ug/L	99
67) trans-1,3-Dichloropropene	7.769	75	20553	1.72	ug/L	99
68) Ethyl Methacrylate	7.890	69	11206	1.59	ug/L	93
69) 1,1,2-Trichloroethane	7.945	97	14145	1.97	ug/L	100
72) Tetrachloroethene	8.067	164	17047	2.05	ug/L	97
73) 2-Hexanone	8.214	43	5453	1.48	ug/L #	86
74) 1,3-Dichloropropane	8.104	76	23893	1.89	ug/L	96
75) Dibromochloromethane	8.317	129	17791	1.87	ug/L	93
76) 1,2-Dibromoethane	8.415	107	14345	1.94	ug/L #	98
77) Chlorobenzene	8.884	112	55102	1.99	ug/L	98
78) 1,1,1,2-Tetrachloroethane	8.963	131	19017	1.92	ug/L	98
79) Ethylbenzene	8.994	106	27671	1.98	ug/L	88
80) (m+p)Xylene	9.098	106	67378	3.98	ug/L	95
81) o-Xylene	9.445	106	31408	1.94	ug/L	92
82) Styrene	9.463	104	52842	1.91	ug/L	99
83) Bromoform	9.616	173	11166	1.91	ug/L	96
84) Isopropylbenzene	9.768	105	79139	1.90	ug/L	97
85) Cyclohexanone	9.841	55	25599	33.86	ug/L	98
86) trans-1,4-Dichloro-2-B...	10.073	53	3102	2.07	ug/L #	82
88) 1,1,2,2-Tetrachloroethane	10.024	83	16777	1.93	ug/L	88
89) Bromobenzene	10.018	156	23918	1.99	ug/L	95
91) 1,2,3-Trichloropropane	10.055	110	5045	1.94	ug/L	84
92) n-Propylbenzene	10.116	91	102141	1.96	ug/L	98
93) 2-Chlorotoluene	10.183	91	64275	1.97	ug/L	99
94) 4-Chlorotoluene	10.274	91	77075	2.03	ug/L	95
95) 1,3,5-Trimethylbenzene	10.262	105	72459	1.95	ug/L	95
96) tert-Butylbenzene	10.536	119	55608	1.83	ug/L	95
97) 1,2,4-Trimethylbenzene	10.573	105	72696	1.89	ug/L	97
98) sec-Butylbenzene	10.713	105	86421	1.94	ug/L	99
99) p-Isopropyltoluene	10.829	119	71575	1.84	ug/L	97

Sample : 2.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
 Acq On : 26 Jun 2008 2:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:15:43 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	46897	1.97	ug/L	99
101) 1,4-Dclbenz	10.865	146	50068	2.04	ug/L	94
103) n-Butylbenzene	11.158	91	61432	1.83	ug/L	96
104) 1,2-Dclbenz	11.164	146	45854	2.05	ug/L	97
105) 1,2-Dibromo-3-chloropr...	11.719	157	3262	1.72	ug/L #	86
107) 1,2,4-Tcbenzene	12.237	180	28439	1.86	ug/L	99
108) Hexachlorobt	12.335	225	12989	2.10	ug/L	97
109) Naphthalen	12.377	128	47459	1.64	ug/L	98
110) 1,2,3-Tclbenzene	12.512	180	26718	1.91	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

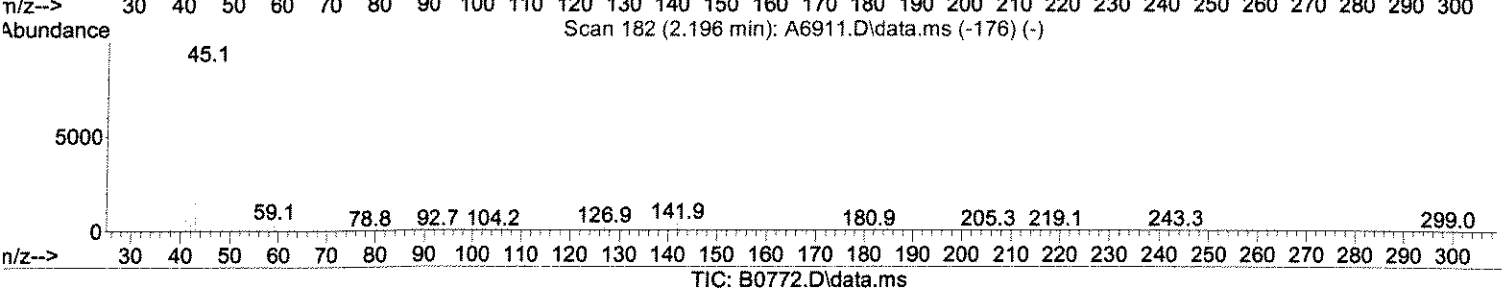
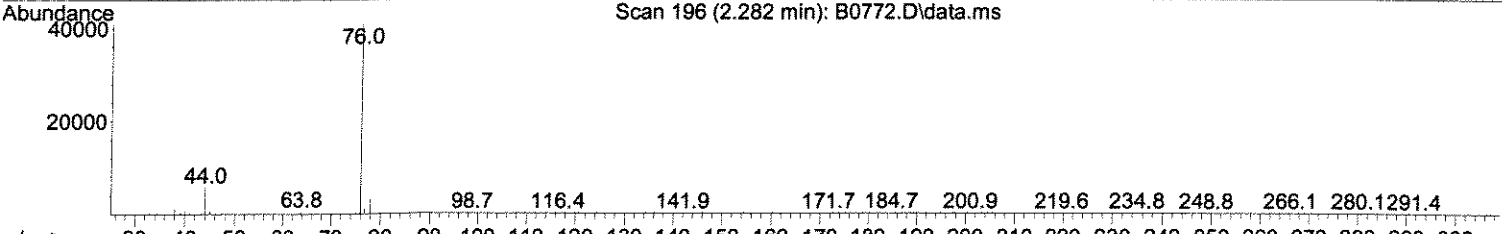
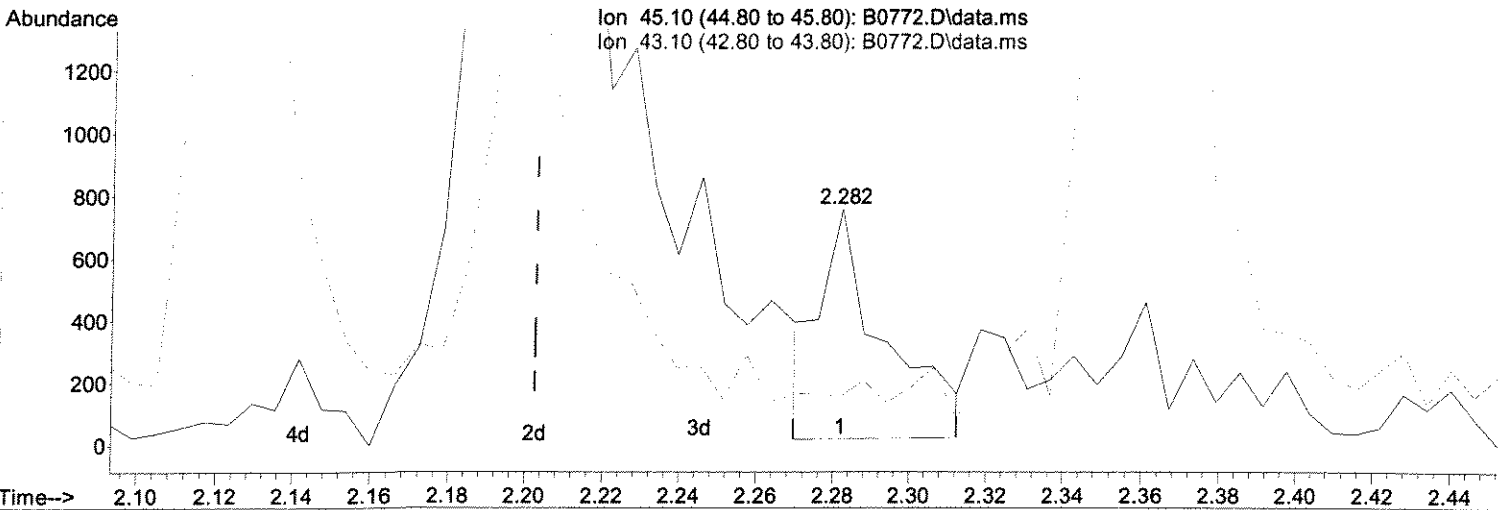
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
 Acq On : 26 Jun 2008 2:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

*FW
6/30/08*

Quant Time: Jun 30 08:41:14 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

B bad int; missed



(17) 2-Propanol

2.282min (+0.079) 2.76 ug/L

response 865

Ion	Exp%	Act%
45.10	100	100
43.10	21.20	20.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

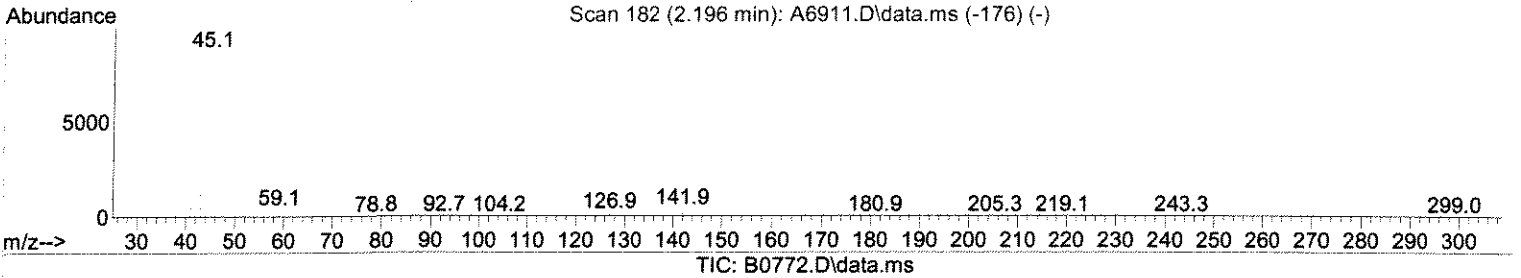
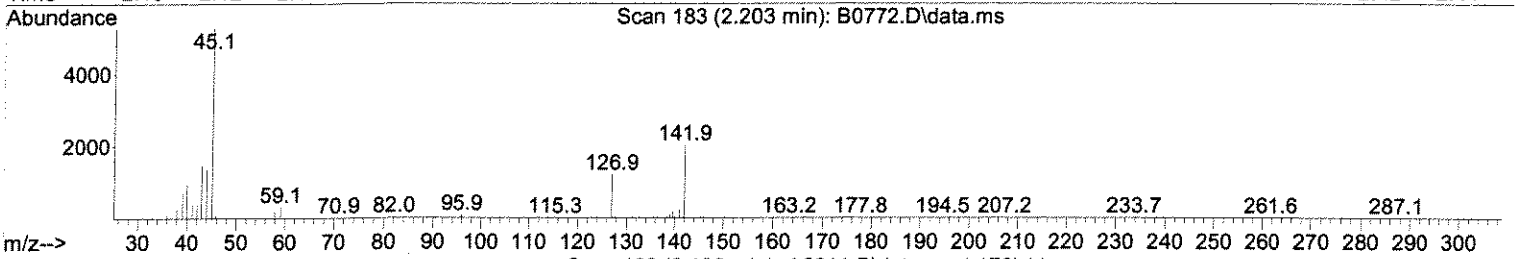
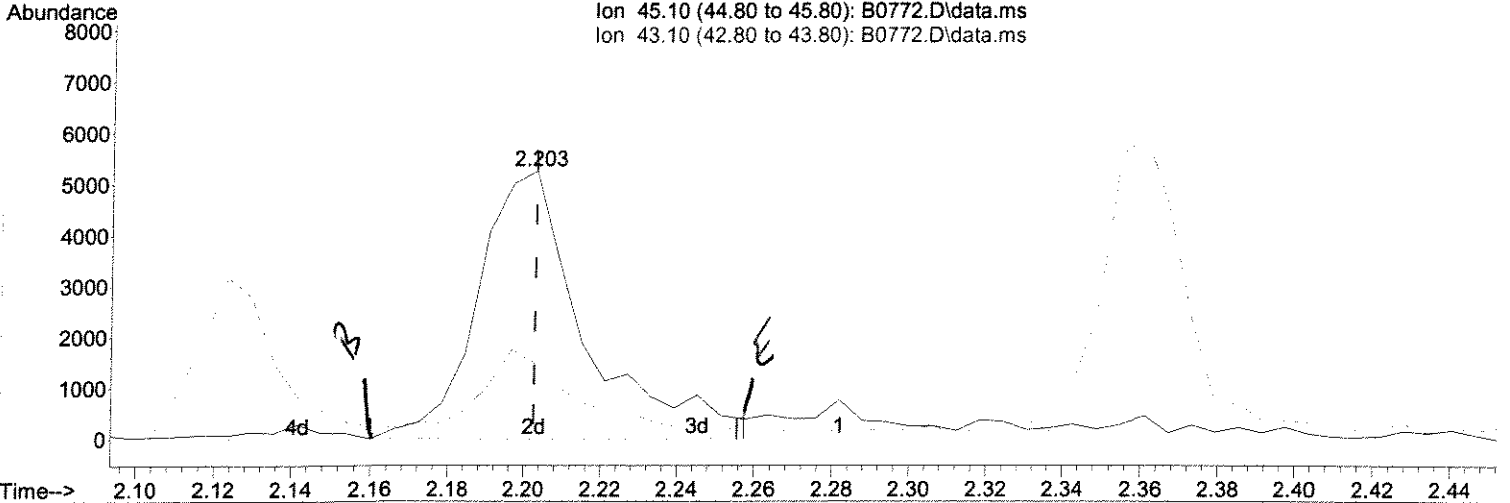
Sample : 2.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
 Acq On : 26 Jun 2008 2:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FN
6/30/08

Quant Time: Jun 30 08:41:14 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

A

DL 7/1/08



(17) 2-Propanol
 2.203min (+0.000) 32.83 ug/L m
 response 10303

Ion	Exp%	Act%
45.10	100	100
43.10	21.20	28.27#
0.00	0.00	0.00
0.00	0.00	0.00

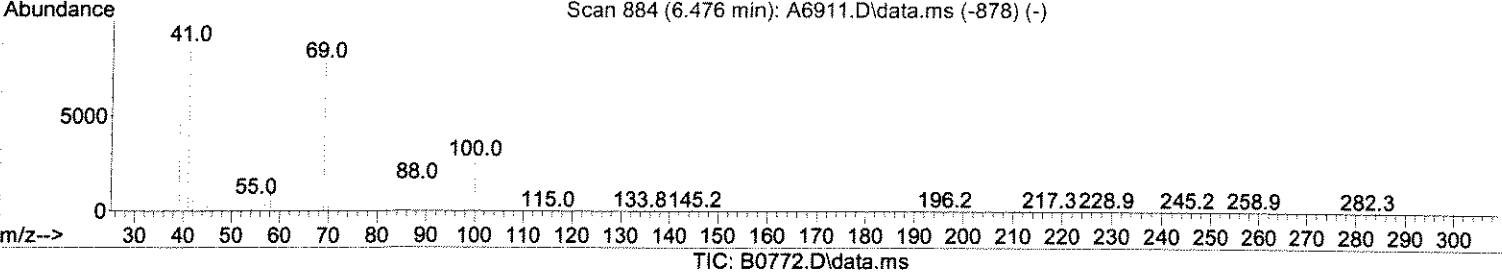
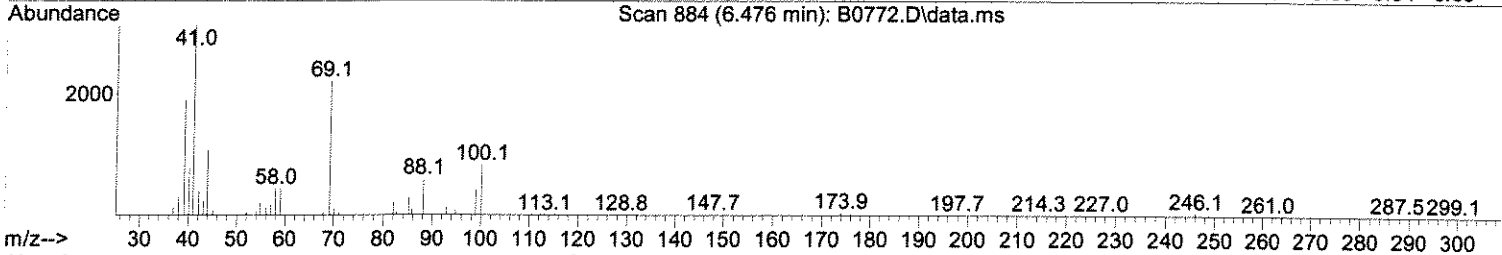
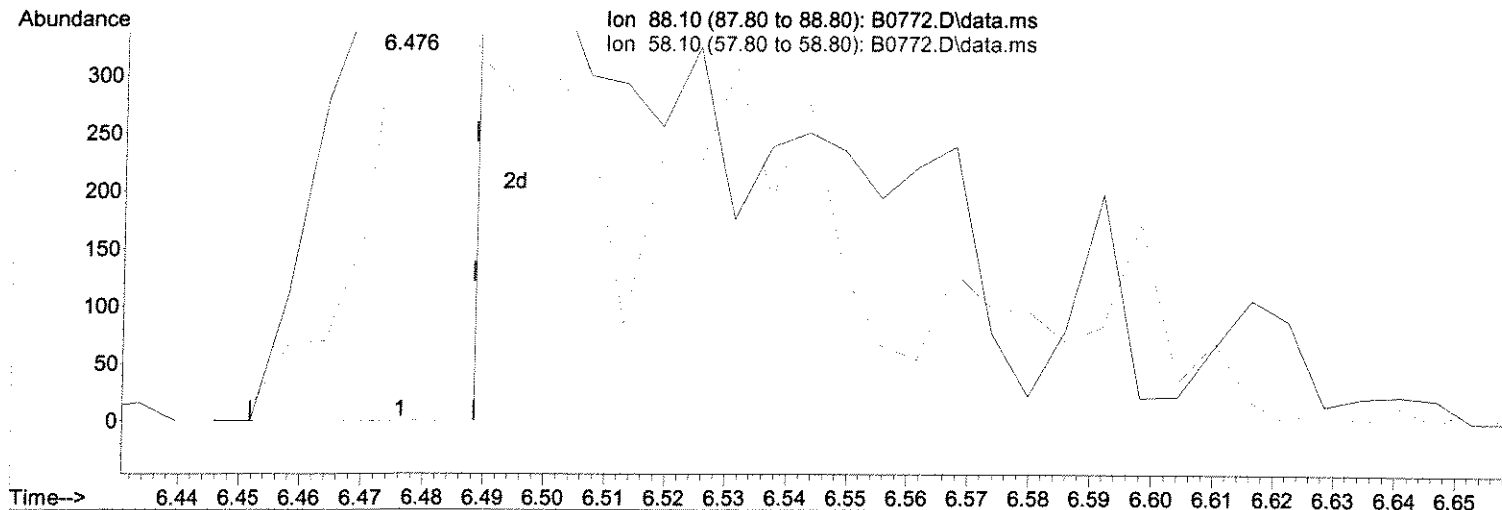
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
 Acq On : 26 Jun 2008 2:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

*FU
6/30/08*

Quant Time: Jun 30 08:41:14 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

*B
Bad int.*



(58) 1,4-Dioxane

6.476min (-0.012) 13.46 ug/L

response 801

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	74.58
0.00	0.00	0.00
0.00	0.00	0.00

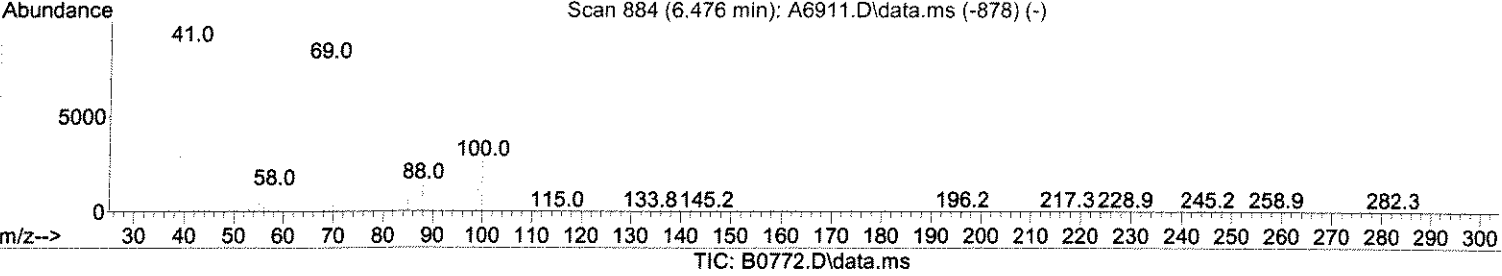
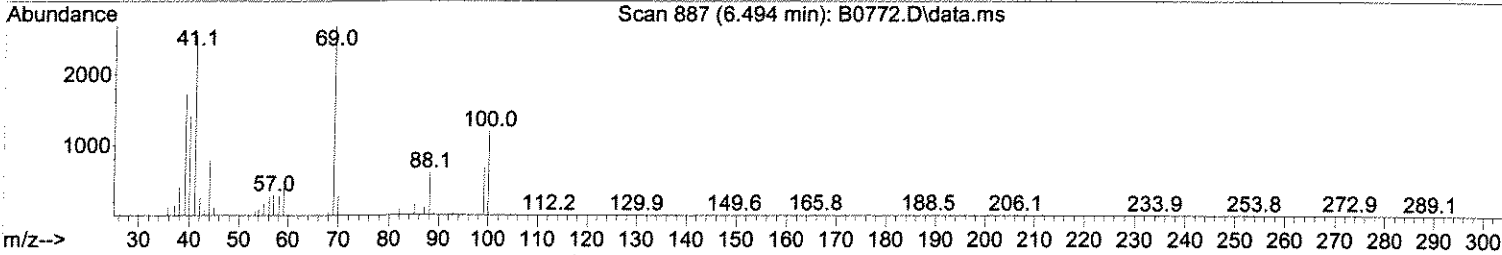
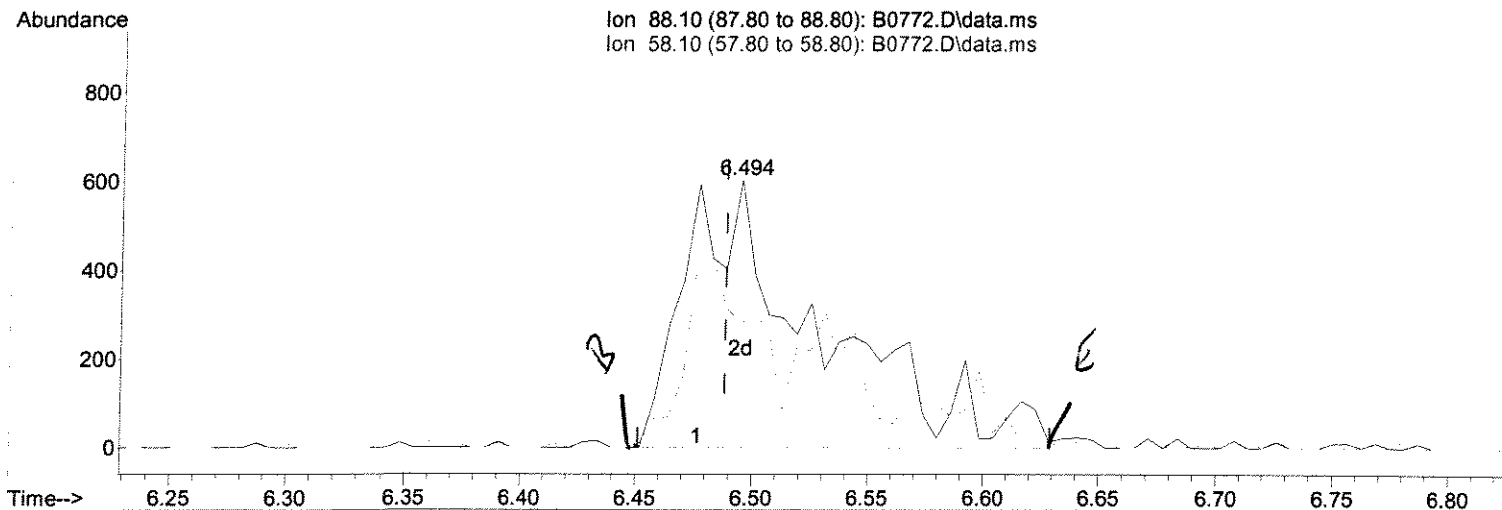
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
 Acq On : 26 Jun 2008 2:21 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FU
6/30/08

Quant Time: Jun 30 08:41:14 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

A.
027/10



(58) 1,4-Dioxane
 6.494min (+0.006) 40.58 ug/L m
 response 2416

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	46.69#
0.00	0.00	0.00
0.00	0.00	0.00

Sample : 5.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0773.D Vial: 7
 Acq On : 26 Jun 2008 2:50 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

F.J
 6/30/08

Quant Time: Jun 30 09:21:50 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.434	168	1227419	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	1881090	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	1702801	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	966652	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	720642	64.49	ug/L	0.00
Spiked Amount	50.000		Recovery	=	128.98%	
49) surr1,1,2-dichloroetha...	4.891	65	782245	66.16	ug/L	0.00
Spiked Amount	50.000		Recovery	=	132.32%	
65) SURR3,Toluene-d8	7.445	98	2594568	63.36	ug/L	0.00
Spiked Amount	50.000		Recovery	=	126.72%	
70) SURR2,BFB	9.896	95	1068199	63.34	ug/L	0.00
Spiked Amount	50.000		Recovery	=	126.68%	
Target Compounds						
2) Dichlorodifluoromethane	1.184	85	42273	4.31	ug/L	95
4) Chloromethane	1.294	50	43975	4.83	ug/L	98
5) Vinyl Chloride	1.355	62	47276	5.03	ug/L	98
6) Bromomethane	1.556	94	31850	4.74	ug/L	98
7) Chloroethane	1.611	64	25021	4.78	ug/L	99
8) Freon 21	1.721	67	89603	5.09	ug/L	97
9) Trichlorofluoromethane	1.770	101	83959	5.10	ug/L	98
10) Diethyl Ether	1.934	59	29460	5.31	ug/L	95
11) Freon 123a	1.934	67	57346	5.36	ug/L	92
12) Freon 123	1.971	83	66423	5.16	ug/L	96
13) Acrolein	2.026	56	17322	24.13	ug/L	96
14) 1,1-Dicethene	2.105	96	41017	4.95	ug/L	97
15) Freon 113	2.093	101	44025	4.98	ug/L	91
16) Acetone	2.123	43	9483	6.26	ug/L	95
17) 2-Propanol	2.196	45	29459	91.49	ug/L	94
18) Iodomethane	2.221	142	59671	4.49	ug/L	95
19) Carbon Disulfide	2.276	76	158002	4.98	ug/L	99
20) Acetonitrile	2.324	40	5732	27.05	ug/L #	61
21) Allyl Chloride	2.361	76	22150	4.80	ug/L	79
22) Methyl Acetate	2.361	43	22809	5.14	ug/L	99
23) Methylene Chloride	2.446	84	51263	4.99	ug/L	98
24) TBA	2.507	59	47453	92.87	ug/L	92
25) Acrylonitrile	2.641	53	52336	25.07	ug/L	99
26) Methyl-t-Butyl Ether	2.666	73	104786	5.00	ug/L	99
27) trans-1,2-Dichloroethene	2.678	96	49371	5.21	ug/L	96
28) 1,1-Dicethane	3.062	63	88226	5.05	ug/L	98
29) Vinyl Acetate	3.105	86	3941	4.08	ug/L	86
30) DIPE	3.117	45	129666	5.10	ug/L	98
31) 2-Chloro-1,3-Butadiene	3.160	53	69652	5.14	ug/L	98
32) ETBE	3.519	59	117814	4.97	ug/L	99
33) 2,2-Dichloropropane	3.702	77	57052	4.57	ug/L	99
34) cis-1,2-Dichloroethene	3.702	96	50339	4.92	ug/L	98
35) 2-Butanone	3.714	43	13276	5.23	ug/L #	94
37) Propionitrile	3.787	54	20291	25.84	ug/L	94
38) Bromochloromethane	4.013	130	31394	4.90	ug/L	95

Sample : 5.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0773.D Vial: 7
 Acq On : 26 Jun 2008 2:50 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:21:50 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	11004	5.02	ug/L	87
40) Tetrahydrofuran	4.080	42	6808	4.65	ug/L	94
41) Chloroform	4.117	83	92472	5.19	ug/L	96
42) 1,1,1-Trichloroethane	4.385	97	80267	5.04	ug/L	94
43) TAME	5.214	73	90486	4.43	ug/L	99
45) Cyclohexane	4.470	41	40995	5.21	ug/L	98
47) Carbontetrachloride	4.635	121	22836	4.91	ug/L #	77
48) 1,1-Dichloropropene	4.641	75	67276	5.05	ug/L	97
50) Benzene	4.988	78	192134	5.07	ug/L	98
51) 1,2-Dichloroethane	5.025	62	66519	5.08	ug/L	98
52) Iso-Butyl Alcohol	4.903	43	16596	77.30	ug/L	88
53) n-Heptane	5.476	43	37580	4.84	ug/L	97
54) Trichloroethene	5.994	130	52481	5.04	ug/L	97
55) Methylcyclohexane	6.238	55	55982	4.92	ug/L	98
56) 1,2-Diclpropane	6.281	63	48674	5.16	ug/L	100
57) Dibromomethane	6.427	93	26868	4.87	ug/L	97
58) 1,4-Dioxane	6.476	88	7142m	117.78	ug/L	
59) Methyl Methacrylate	6.488	69	17350	4.73	ug/L	91
60) Bromodichloromethane	6.641	83	67004	4.93	ug/L	98
62) 2-Chloroethylvinyl Ether	7.031	63	11598	4.18	ug/L #	87
63) cis-1,3-Dichloropropene	7.165	75	65332	4.61	ug/L	97
64) 4-Methyl-2-pentanone	7.354	43	23275	4.43	ug/L	98
66) Toluene	7.518	91	204037	4.92	ug/L	97
67) trans-1,3-Dichloropropene	7.768	75	55305	4.53	ug/L	98
68) Ethyl Methacrylate	7.890	69	31909	4.44	ug/L	97
69) 1,1,2-Trichloroethane	7.945	97	37236	5.09	ug/L	98
72) Tetrachloroethene	8.073	164	42726	5.03	ug/L	95
73) 2-Hexanone	8.213	43	15903	4.23	ug/L #	96
74) 1,3-Dichloropropane	8.104	76	64133	4.96	ug/L	97
75) Dibromochloromethane	8.317	129	47020	4.84	ug/L	99
76) 1,2-Dibromoethane	8.415	107	36931	4.89	ug/L	98
77) Chlorobenzene	8.884	112	145312	5.13	ug/L	99
78) 1,1,1,2-Tetrachloroethane	8.963	131	49133	4.86	ug/L	98
79) Ethylbenzene	8.994	106	71568	5.01	ug/L	98
80) (m+p)Xylene	9.097	106	179195	10.35	ug/L	96
81) o-Xylene	9.445	106	83056	5.02	ug/L	99
82) Styrene	9.457	104	144974	5.13	ug/L	94
83) Bromoform	9.616	173	26994	4.53	ug/L	99
84) Isopropylbenzene	9.768	105	214694	5.03	ug/L	99
85) Cyclohexanone	9.841	55	74754	96.72	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.073	53	7402	4.82	ug/L	88
88) 1,1,2,2-Tetrachloroethane	10.024	83	44443	4.98	ug/L	96
89) Bromobenzene	10.018	156	60779	4.92	ug/L	97
91) 1,2,3-Trichloropropane	10.055	110	13633	5.11	ug/L	98
92) n-Propylbenzene	10.116	91	274190	5.13	ug/L	98
93) 2-Chlorotoluene	10.183	91	167684	5.01	ug/L	98
94) 4-Chlorotoluene	10.274	91	203062	5.21	ug/L	98
95) 1,3,5-Trimethylbenzene	10.268	105	193881	5.09	ug/L	98
96) tert-Butylbenzene	10.530	119	155041	4.97	ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	203370	5.16	ug/L	100
98) sec-Butylbenzene	10.713	105	232047	5.08	ug/L	99
99) p-Isopropyltoluene	10.829	119	200870	5.05	ug/L	98

Sample : 5.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0773.D Vial: 7
 Acq On : 26 Jun 2008 2:50 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:21:50 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	120003	4.93	ug/L	98
101) 1,4-Dclbenz	10.865	146	124718	4.95	ug/L	97
103) n-Butylbenzene	11.152	91	174962	5.08	ug/L	97
104) 1,2-Dclbenz	11.164	146	115984	5.06	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	8880	4.56	ug/L	91
107) 1,2,4-Tcbenzene	12.237	180	76430	4.88	ug/L	99
108) Hexachlorobt	12.335	225	32360	5.09	ug/L	98
109) Naphthalen	12.377	128	141890	4.78	ug/L	99
110) 1,2,3-Tclbenzene	12.518	180	71767	5.01	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

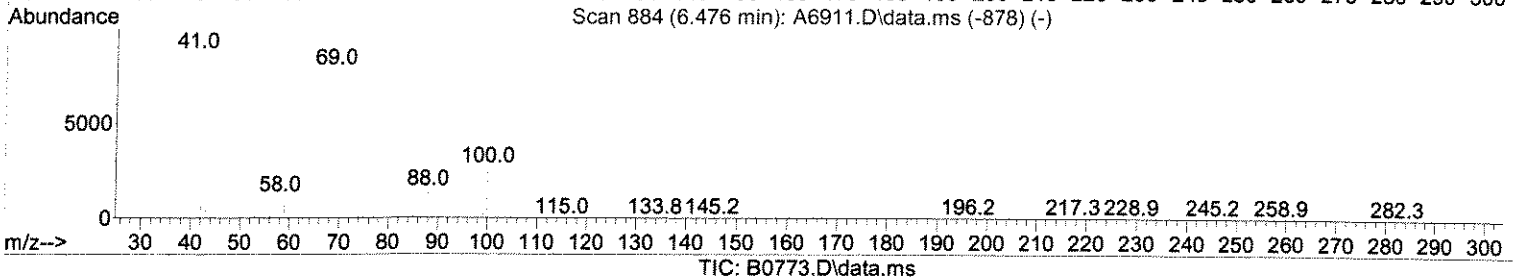
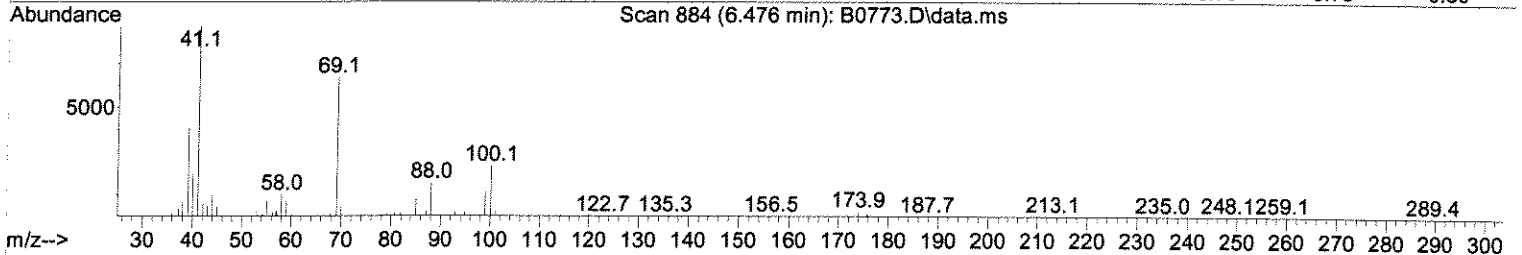
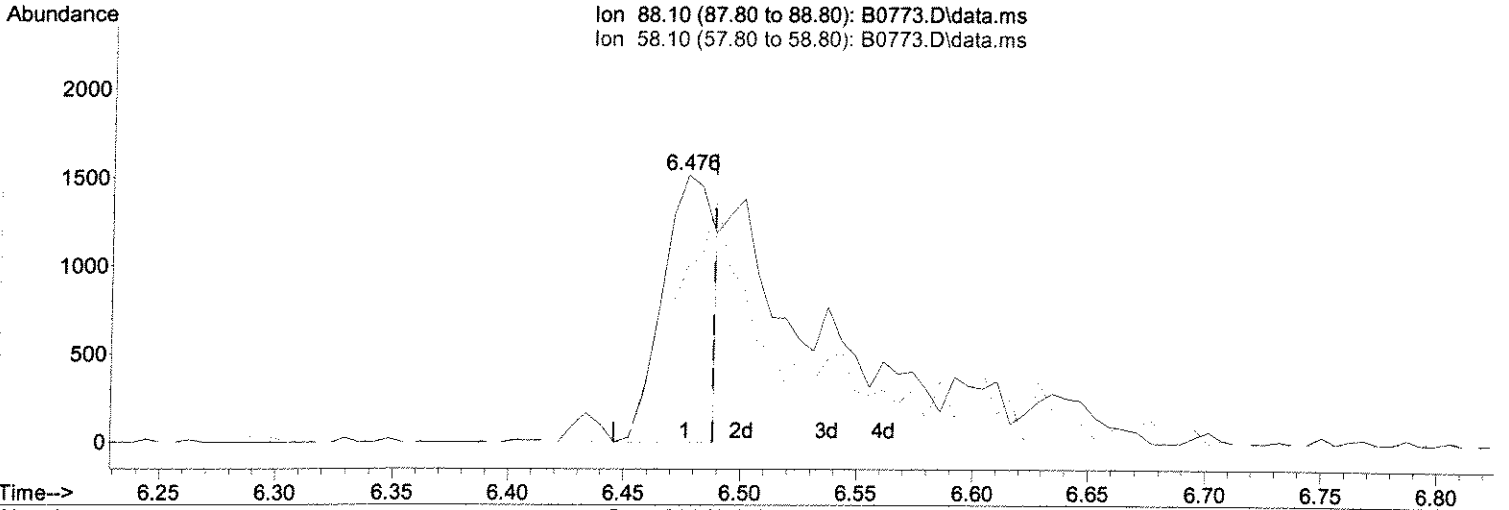
Quantitation Report (Qedit)

Sample : 5.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0773.D Vial: 7
 Acq On : 26 Jun 2008 2:50 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
6/30/08

Quant Time: Jun 30 08:41:24 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

B bnd int.



(58) 1,4-Dioxane

6.476min (-0.012) 39.03 ug/L

response 2367

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	65.88
0.00	0.00	0.00
0.00	0.00	0.00

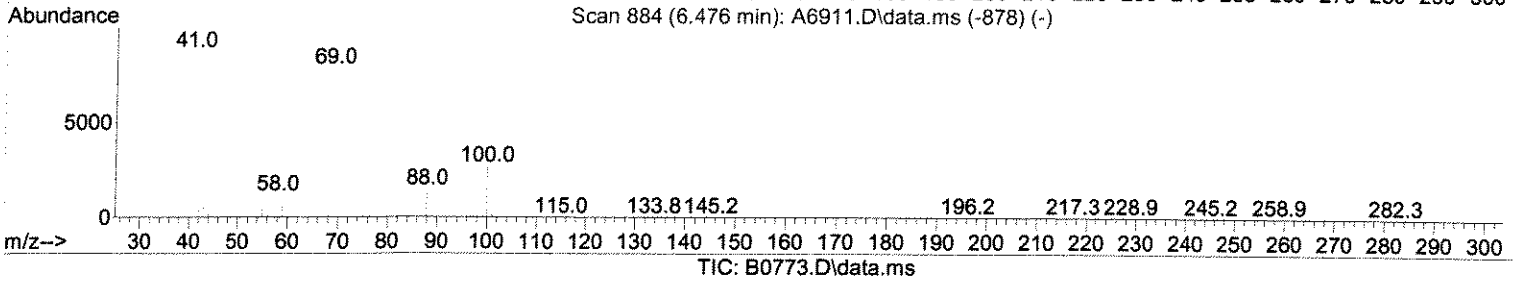
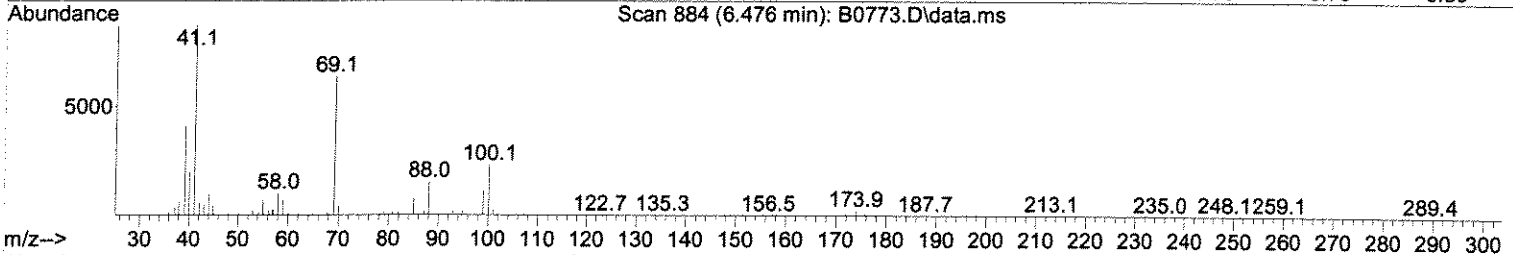
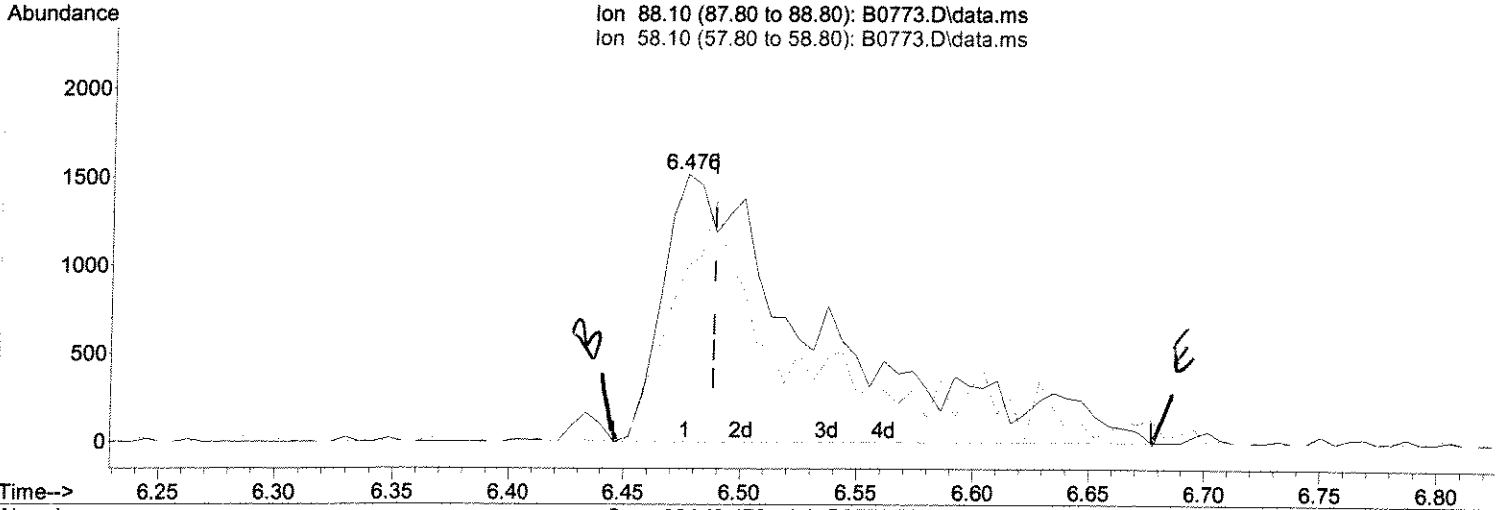
Quantitation Report (Qedit)

Sample : 5.0 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0773.D Vial: 7
 Acq On : 26 Jun 2008 2:50 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
6/30/08

Quant Time: Jun 30 08:41:24 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

A
mz/10



(58) 1,4-Dioxane

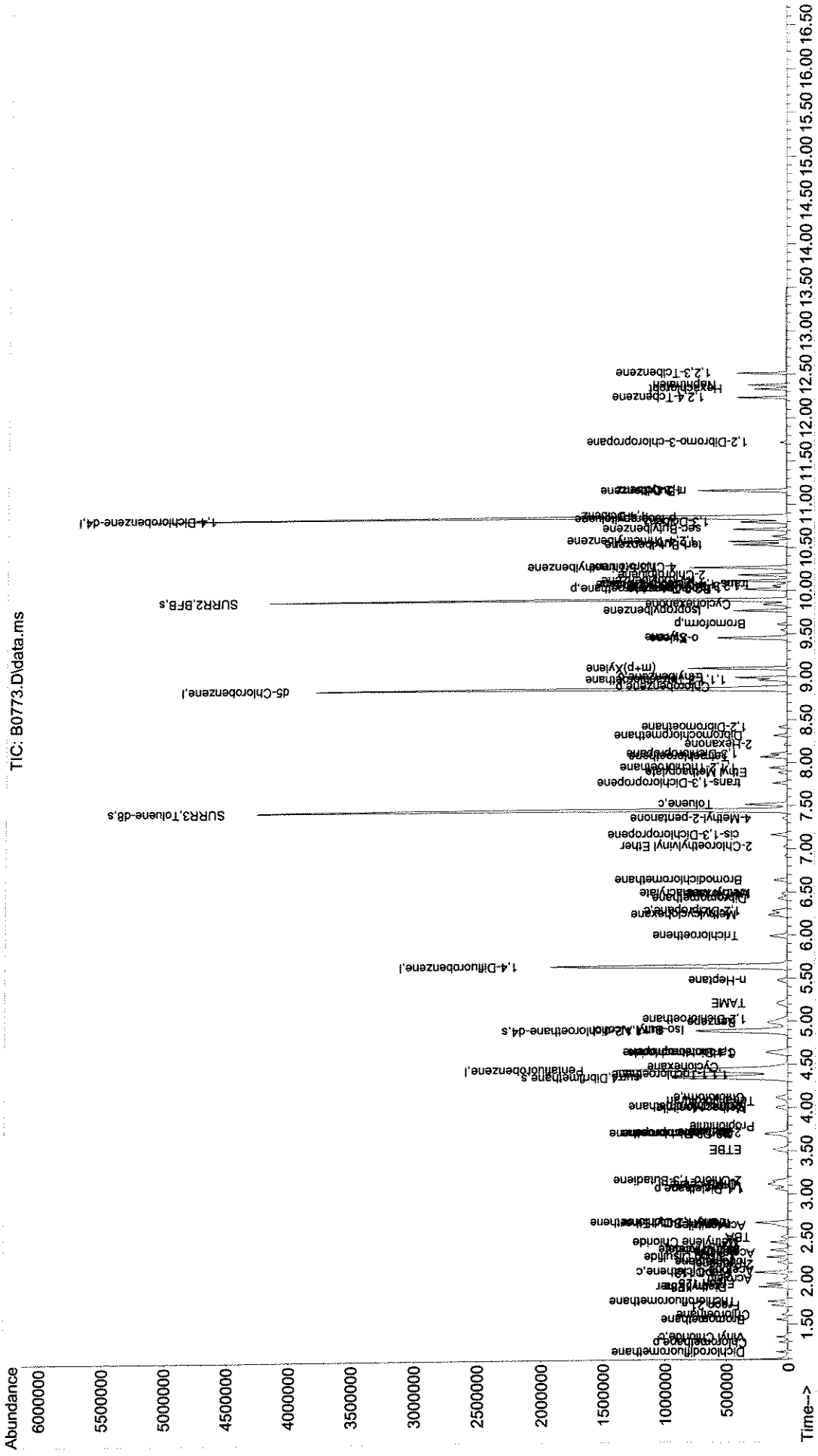
6.476min (-0.012) 117.78 ug/L m

response 7142

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	65.68
0.00	0.00	0.00
0.00	0.00	0.00

Sample : 5.0 PPB STD
 Data File : J:\ACQDATA\msvoa10\data\062608\B0773.D Vial: 7
 Acq On : 26 Jun 2008 2:50 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:21:50 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration



Sample : 10 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0774.D Vial: 8
 Acq On : 26 Jun 2008 3:22 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FU
6/30/08

Quant Time: Jun 30 09:25:42 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1246944	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	1899616	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	1719038	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	970956	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	816820	72.39	ug/L	0.00
Spiked Amount	50.000		Recovery	=	144.78%	
49) surr1,1,2-dichloroetha...	4.891	65	869855	72.85	ug/L	0.00
Spiked Amount	50.000		Recovery	=	145.70%	
65) SURR3,Toluene-d8	7.445	98	2954362	71.45	ug/L	0.00
Spiked Amount	50.000		Recovery	=	142.90%	
70) SURR2,BFB	9.896	95	1215037	71.35	ug/L	0.00
Spiked Amount	50.000		Recovery	=	142.70%	
Target Compounds						
2) Dichlorodifluoromethane	1.184	85	109946	11.03	ug/L	100
4) Chloromethane	1.294	50	98132	10.60	ug/L	99
5) Vinyl Chloride	1.355	62	100543	10.53	ug/L	97
6) Bromomethane	1.556	94	69788	10.22	ug/L	97
7) Chloroethane	1.611	64	55014	10.35	ug/L	94
8) Freon 21	1.721	67	179325	10.02	ug/L	99
9) Trichlorofluoromethane	1.770	101	172171	10.30	ug/L	100
10) Diethyl Ether	1.934	59	58522	10.39	ug/L	97
11) Freon 123a	1.934	67	104367	9.61	ug/L	98
12) Freon 123	1.971	83	125607	9.60	ug/L	98
13) Acrolein	2.026	56	36747	50.38	ug/L	98
14) 1,1-Dicethene	2.105	96	86388	10.27	ug/L	99
15) Freon 113	2.093	101	94726	10.54	ug/L	96
16) Acetone	2.123	43	15153	9.85	ug/L	100
17) 2-Propanol	2.196	45	56783	173.58	ug/L #	88
18) Iodomethane	2.221	142	121180	8.98	ug/L	97
19) Carbon Disulfide	2.276	76	261136	8.10	ug/L	99
20) Acetonitrile	2.324	40	10705	49.73	ug/L	90
21) Allyl Chloride	2.355	76	47294	10.08	ug/L	97
22) Methyl Acetate	2.361	43	45112	10.02	ug/L	99
23) Methylene Chloride	2.446	84	100867	9.66	ug/L	98
24) TBA	2.507	59	94434	181.93	ug/L	90
25) Acrylonitrile	2.641	53	109393	51.57	ug/L	100
26) Methyl-t-Butyl Ether	2.666	73	215155	10.10	ug/L	98
27) trans-1,2-Dichloroethene	2.678	96	100700	10.45	ug/L	95
28) 1,1-Dicethane	3.062	63	183325	10.33	ug/L	98
29) Vinyl Acetate	3.099	86	9126	9.31	ug/L	72
30) DIPE	3.117	45	277547	10.74	ug/L	97
31) 2-Chloro-1,3-Butadiene	3.153	53	120427	8.74	ug/L	99
32) ETBE	3.519	59	246676	10.24	ug/L	100
33) 2,2-Dichloropropane	3.702	77	123927	9.78	ug/L	97
34) cis-1,2-Dichloroethene	3.696	96	108634	10.45	ug/L	99
35) 2-Butanone	3.714	43	25240	9.78	ug/L	97
37) Propionitrile	3.787	54	39180	49.11	ug/L	96
38) Bromochloromethane	4.007	130	65691	10.09	ug/L	95

Sample : 10 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0774.D Vial: 8
 Acq On : 26 Jun 2008 3:22 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:25:42 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	23097	10.37	ug/L	86
40) Tetrahydrofuran	4.068	42	14964	10.06	ug/L	94
41) Chloroform	4.123	83	187636	10.37	ug/L	100
42) 1,1,1-Trichloroethane	4.385	97	163129	10.08	ug/L	95
43) TAME	5.208	73	196299	9.46	ug/L	100
45) Cyclohexane	4.464	41	77348	9.74	ug/L	98
47) Carbontetrachloride	4.641	121	47555	10.12	ug/L	97
48) 1,1-Dichloropropene	4.647	75	133977	9.95	ug/L	98
50) Benzene	4.988	78	397868	10.39	ug/L	99
51) 1,2-Dichloroethane	5.025	62	137791	10.43	ug/L	95
52) Iso-Butyl Alcohol	4.891	43	38863	179.25	ug/L	92
53) n-Heptane	5.476	43	81612	10.42	ug/L	98
54) Trichloroethene	5.994	130	102982	9.80	ug/L	98
55) Methylcyclohexane	6.238	55	113952	9.93	ug/L	97
56) 1,2-Diclpropane	6.281	63	98237	10.30	ug/L	97
57) Dibromomethane	6.427	93	56407	10.13	ug/L	99
58) 1,4-Dioxane	6.476	88	15509m	253.26	ug/L	
59) Methyl Methacrylate	6.482	69	37272	10.05	ug/L	99
60) Bromodichloromethane	6.641	83	141106	10.29	ug/L	100
62) 2-Chloroethylvinyl Ether	7.025	63	24253	8.66	ug/L	94
63) cis-1,3-Dichloropropene	7.165	75	145214	10.15	ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	48886	9.21	ug/L	99
66) Toluene	7.518	91	430997	10.30	ug/L	100
67) trans-1,3-Dichloropropene	7.768	75	122445	9.94	ug/L	98
68) Ethyl Methacrylate	7.884	69	72261	9.95	ug/L	95
69) 1,1,2-Trichloroethane	7.945	97	76499	10.36	ug/L	94
72) Tetrachloroethene	8.073	164	88322	10.30	ug/L	97
73) 2-Hexanone	8.213	43	33612	8.86	ug/L	94
74) 1,3-Dichloropropane	8.104	76	135531	10.39	ug/L	98
75) Dibromochloromethane	8.317	129	99320	10.12	ug/L	97
76) 1,2-Dibromoethane	8.415	107	77728	10.20	ug/L #	99
77) Chlorobenzene	8.884	112	295628	10.34	ug/L	99
78) 1,1,1,2-Tetrachloroethane	8.963	131	104439	10.23	ug/L	97
79) Ethylbenzene	8.994	106	149875	10.39	ug/L	99
80) (m+p)Xylene	9.097	106	382228	21.87	ug/L	96
81) o-Xylene	9.445	106	183264	10.98	ug/L	95
82) Styrene	9.457	104	314868	11.05	ug/L	96
83) Bromoform	9.616	173	58476	9.72	ug/L	100
84) Isopropylbenzene	9.768	105	462338	10.73	ug/L	100
85) Cyclohexanone	9.841	55	163629	209.72	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.073	53	14721	9.50	ug/L #	96
88) 1,1,2,2-Tetrachloroethane	10.024	83	91754	10.23	ug/L	98
89) Bromobenzene	10.018	156	129307	10.43	ug/L	100
91) 1,2,3-Trichloropropane	10.055	110	27125	10.13	ug/L	93
92) n-Propylbenzene	10.116	91	577593	10.76	ug/L	99
93) 2-Chlorotoluene	10.183	91	353970	10.54	ug/L	98
94) 4-Chlorotoluene	10.274	91	429602	10.98	ug/L	98
95) 1,3,5-Trimethylbenzene	10.262	105	414134	10.82	ug/L	100
96) tert-Butylbenzene	10.530	119	333923	10.66	ug/L	99
97) 1,2,4-Trimethylbenzene	10.573	105	433077	10.95	ug/L	99
98) sec-Butylbenzene	10.713	105	494824	10.79	ug/L	99
99) p-Isopropyltoluene	10.829	119	425479	10.65	ug/L	99

Sample : 10 PPB STD
 Data File : J:\ACQUADATA\msvoa10\data\062608\B0774.D Vial: 8
 Acq On : 26 Jun 2008 3:22 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:25:42 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	258140	10.55	ug/L	98
101) 1,4-Dclbenz	10.865	146	256959	10.16	ug/L	97
103) n-Butylbenzene	11.152	91	372468	10.77	ug/L	99
104) 1,2-Dclbenz	11.164	146	241312	10.48	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	19422	9.93	ug/L	96
107) 1,2,4-Tcbenzene	12.237	180	164093	10.44	ug/L	99
108) Hexachlorobt	12.335	225	65931	10.33	ug/L	94
109) Naphthalen	12.377	128	317427	10.65	ug/L	99
110) 1,2,3-Tclbenzene	12.511	180	151948	10.56	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

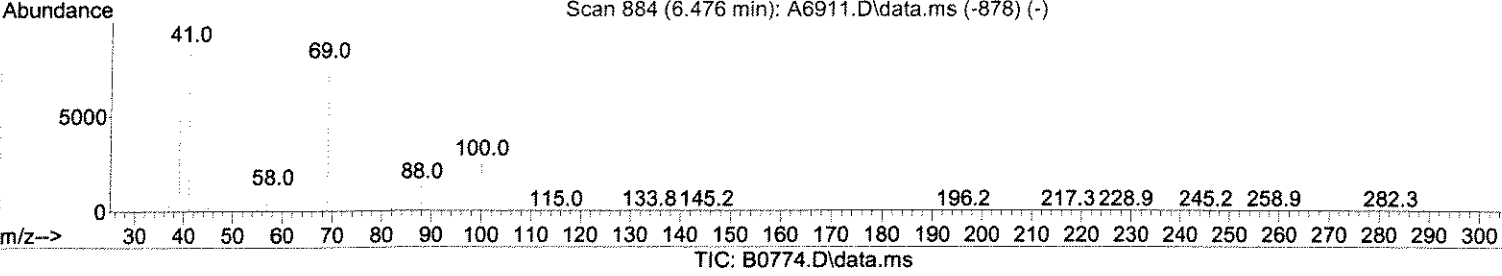
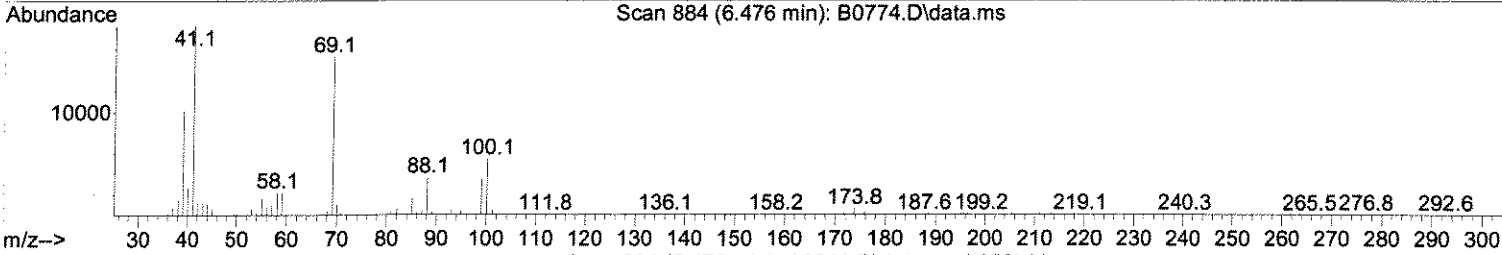
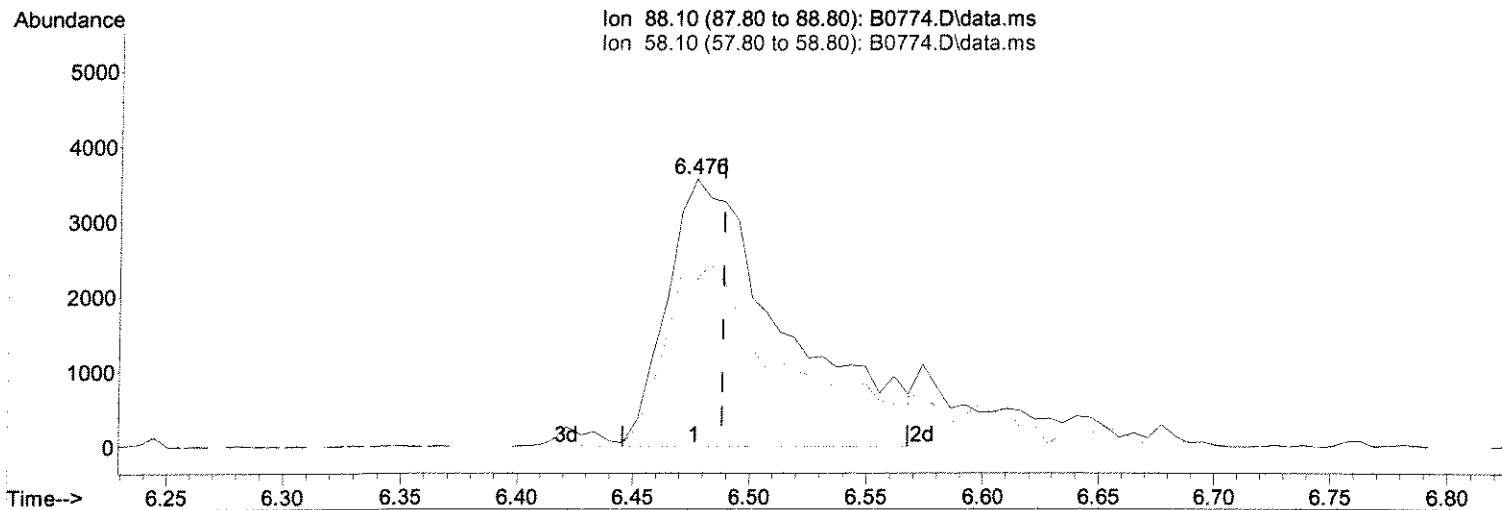
Quantitation Report (Qedit)

Sample : 10 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0774.D Vial: 8
 Acq On : 26 Jun 2008 3:22 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FU
6/30/08

Quant Time: Jun 30 08:41:33 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

B *bad int.*



(58) 1,4-Dioxane

6.476min (-0.012) 205.93 ug/L

response 12611

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	61.77
0.00	0.00	0.00
0.00	0.00	0.00

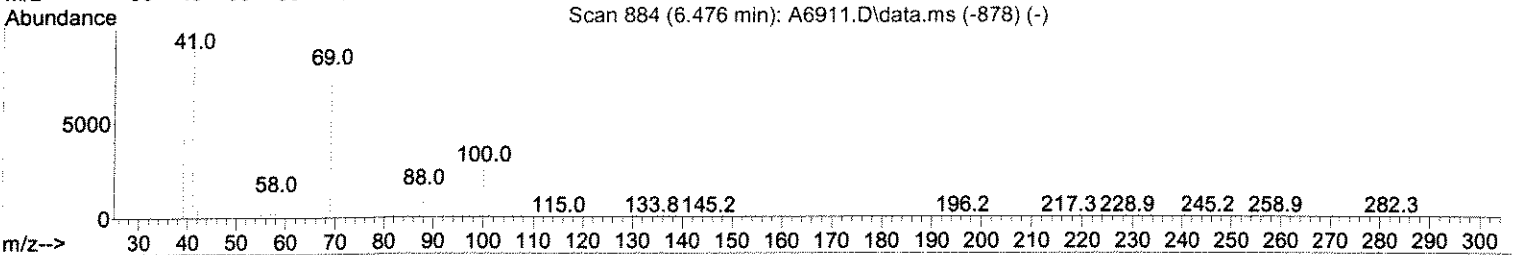
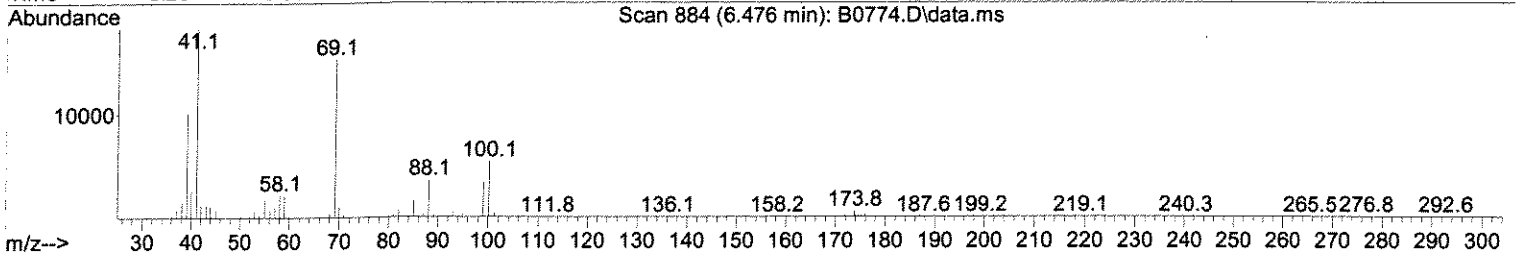
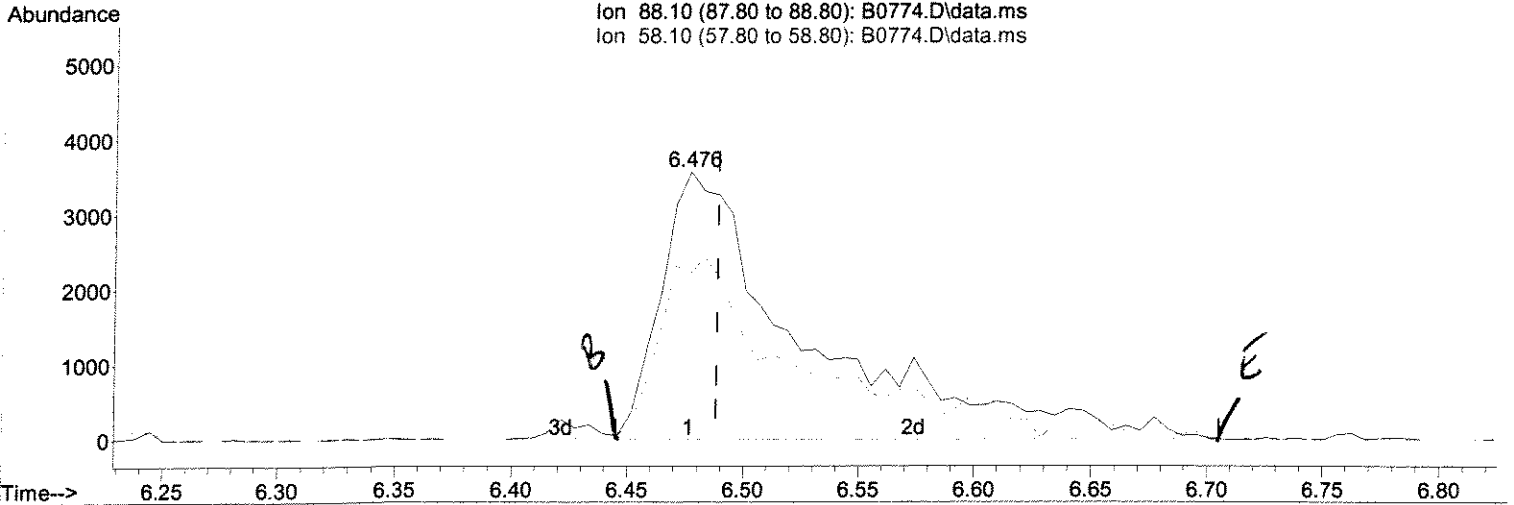


Quantitation Report (Qedit)

Sample : 10 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0774.D Vial: 8
 Acq On : 26 Jun 2008 3:22 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 08:41:33 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

A FN 6/30/08
 DL 7/1/08



TIC: B0774.D\data.ms

(58) 1,4-Dioxane

6.476min (-0.012) 253.26 ug/L m

response 15509

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	61.77
0.00	0.00	0.00
0.00	0.00	0.00

Sample : 50 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0775.D Vial: 9
 Acq On : 26 Jun 2008 3:52 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
6/26/08

Quant Time: Jun 30 09:30:06 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Pentafluorobenzene	4.440	168	1289470	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	1982239	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1800756	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1032820	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.354	113	634470	53.88	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.76%		
49) surr1,1,2-dichloroetha...	4.891	65	668895	53.68	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.36%		
65) SURR3,Toluene-d8	7.451	98	2332331	54.05	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.10%		
70) SURR2,BFB	9.896	95	959752	54.01	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.02%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.184	85	551819	53.52	ug/L		100
4) Chloromethane	1.294	50	496869	51.90	ug/L		100
5) Vinyl Chloride	1.355	62	522185m	52.89	ug/L		100
6) Bromomethane	1.556	94	347795	49.27	ug/L		100
7) Chloroethane	1.611	64	271297	49.35	ug/L		100
8) Freon 21	1.721	67	963238m	52.04	ug/L		100
9) Trichlorofluoromethane	1.770	101	889891	51.49	ug/L		100
10) Diethyl Ether	1.934	59	294800	50.59	ug/L		100
11) Freon 123a	1.934	67	585331	52.12	ug/L		100
12) Freon 123	1.971	83	697262	51.52	ug/L		100
13) Acrolein	2.026	56	208198	276.04	ug/L		100
14) 1,1-Dicethene	2.105	96	449596	51.67	ug/L		100
15) Freon 113	2.093	101	469241	50.51	ug/L		100
16) Acetone	2.123	43	75639	47.54	ug/L		100
17) 2-Propanol	2.196	45	332376	982.55	ug/L		100
18) Iodomethane	2.221	142	755754	54.14	ug/L		100
19) Carbon Disulfide	2.276	76	1725918	51.74	ug/L		100
20) Acetonitrile	2.324	40	56161	252.29	ug/L		100
21) Allyl Chloride	2.355	76	254467	52.47	ug/L		100
22) Methyl Acetate	2.361	43	247492	53.13	ug/L		100
23) Methylene Chloride	2.446	84	510753	47.29	ug/L		100
24) TBA	2.507	59	575104	1071.41	ug/L		100
25) Acrylonitrile	2.641	53	595276	271.39	ug/L		100
26) Methyl-t-Butyl Ether	2.666	73	1193765	54.17	ug/L		100
27) trans-1,2-Dichloroethene	2.678	96	506883	50.87	ug/L		100
28) 1,1-Dicethane	3.062	63	930833	50.73	ug/L		100
29) Vinyl Acetate	3.105	86	54420	53.68	ug/L		100
30) DIPE	3.117	45	1475843	55.20	ug/L		100
31) 2-Chloro-1,3-Butadiene	3.153	53	804518	56.49	ug/L		100
32) ETBE	3.519	59	1370913	55.04	ug/L		100
33) 2,2-Dichloropropane	3.702	77	708064	54.01	ug/L		100
34) cis-1,2-Dichloroethene	3.702	96	553082	51.43	ug/L		100
35) 2-Butanone	3.714	43	136431	51.13	ug/L		100
37) Propionitrile	3.787	54	211747	256.65	ug/L		100
38) Bromochloromethane	4.007	130	336855	50.03	ug/L		100

Sample : 50 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0775.D Vial: 9
 Acq On : 26 Jun 2008 3:52 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:30:06 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	124033	53.87	ug/L	100
40) Tetrahydrofuran	4.074	42	76774	49.90	ug/L	100
41) Chloroform	4.123	83	950787	50.82	ug/L	100
42) 1,1,1-Trichloroethane	4.385	97	858360	51.31	ug/L	100
43) TAME	5.214	73	1130333	52.70	ug/L	100
45) Cyclohexane	4.470	41	432217	52.15	ug/L	100
47) Carbontetrachloride	4.647	121	251945	51.38	ug/L	100
48) 1,1-Dichloropropene	4.641	75	726966	51.76	ug/L	100
50) Benzene	4.988	78	2030939	50.85	ug/L	100
51) 1,2-Dichloroethane	5.025	62	696501	50.51	ug/L	100
52) Iso-Butyl Alcohol	4.891	43	249004	1100.65	ug/L	100
53) n-Heptane	5.476	43	443670	54.27	ug/L	100
54) Trichloroethene	5.994	130	548463	50.01	ug/L	100
55) Methylcyclohexane	6.238	55	660620	55.14	ug/L	100
56) 1,2-Diclpropane	6.287	63	523238	52.59	ug/L	100
57) Dibromomethane	6.427	93	295115	50.79	ug/L	100
58) 1,4-Dioxane	6.476	88	82511	1291.22	ug/L	100
59) Methyl Methacrylate	6.482	69	221864	57.34	ug/L	100
60) Bromodichloromethane	6.641	83	737041	51.51	ug/L	100
62) 2-Chloroethylvinyl Ether	7.025	63	182258	62.35	ug/L	100
63) cis-1,3-Dichloropropene	7.165	75	833912	55.86	ug/L	100
64) 4-Methyl-2-pentanone	7.354	43	296815	53.57	ug/L	100
66) Toluene	7.518	91	2219769	50.84	ug/L	100
67) trans-1,3-Dichloropropene	7.768	75	736899	57.33	ug/L	100
68) Ethyl Methacrylate	7.884	69	460228	60.73	ug/L	100
69) 1,1,2-Trichloroethane	7.945	97	405465	52.61	ug/L	100
72) Tetrachloroethene	8.073	164	455552	50.73	ug/L	100
73) 2-Hexanone	8.213	43	208129	52.36	ug/L	100
74) 1,3-Dichloropropane	8.104	76	717637	52.52	ug/L	100
75) Dibromochloromethane	8.317	129	553535	53.83	ug/L	100
76) 1,2-Dibromoethane	8.415	107	424749	53.20	ug/L	100
77) Chlorobenzene	8.884	112	1518087	50.68	ug/L	100
78) 1,1,1,2-Tetrachloroethane	8.963	131	559577	52.32	ug/L	100
79) Ethylbenzene	8.994	106	805166	53.26	ug/L	100
80) (m+p)Xylene	9.104	106	1980214	108.16	ug/L	100
81) o-Xylene	9.445	106	968012	55.37	ug/L	100
82) Styrene	9.463	104	1666475	55.81	ug/L	100
83) Bromoform	9.616	173	342788	54.37	ug/L	100
84) Isopropylbenzene	9.768	105	2506700	55.55	ug/L	100
85) Cyclohexanone	9.841	55	890383	1089.39	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.073	53	84310	51.94	ug/L	100
88) 1,1,2,2-Tetrachloroethane	10.024	83	497936	52.21	ug/L	100
89) Bromobenzene	10.018	156	666915	50.57	ug/L	100
91) 1,2,3-Trichloropropane	10.055	110	146399	51.37	ug/L	100
92) n-Propylbenzene	10.116	91	3092722	54.19	ug/L	100
93) 2-Chlorotoluene	10.183	91	1866770	52.25	ug/L	100
94) 4-Chlorotoluene	10.274	91	2213995	53.21	ug/L	100
95) 1,3,5-Trimethylbenzene	10.262	105	2221136	54.58	ug/L	100
96) tert-Butylbenzene	10.530	119	1840876	55.25	ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	2307977	54.85	ug/L	100
98) sec-Butylbenzene	10.713	105	2675523	54.85	ug/L	100
99) p-Isopropyltoluene	10.829	119	2311165	54.38	ug/L	100

Sample : 50 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0775.D Vial: 9
 Acq On : 26 Jun 2008 3:52 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:30:06 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	1328035	51.05	ug/L	100
101) 1,4-Dclbenz	10.871	146	1351612	50.22	ug/L	100
103) n-Butylbenzene	11.152	91	2044282	55.58	ug/L	100
104) 1,2-Dclbenz	11.164	146	1267808	51.76	ug/L	100
105) 1,2-Dibromo-3-chloropr...	11.719	157	111500	53.57	ug/L	100
107) 1,2,4-Tcbenzene	12.237	180	909137	54.38	ug/L	100
108) Hexachlorobt	12.335	225	346602	51.07	ug/L	100
109) Naphthalen	12.377	128	1899473	59.94	ug/L	100
110) 1,2,3-Tclbenzene	12.511	180	825037	53.88	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

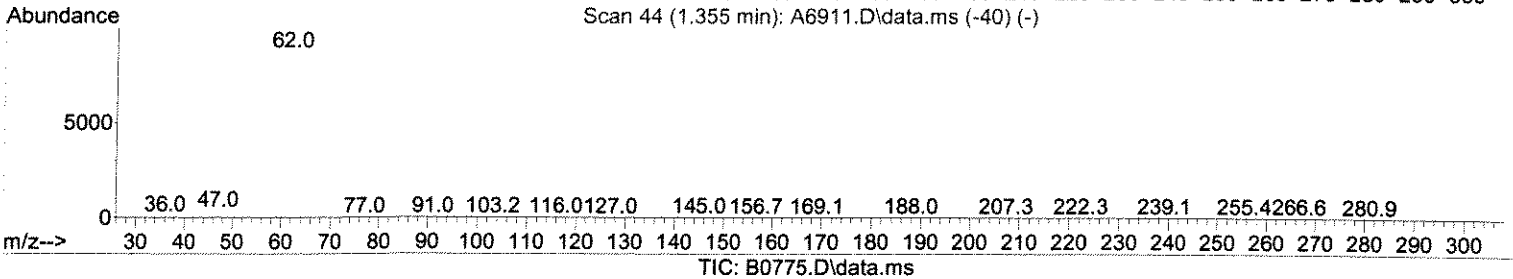
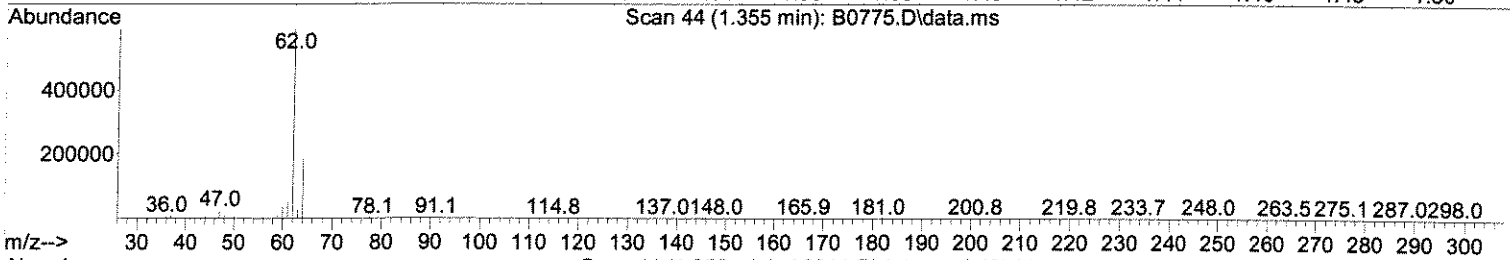
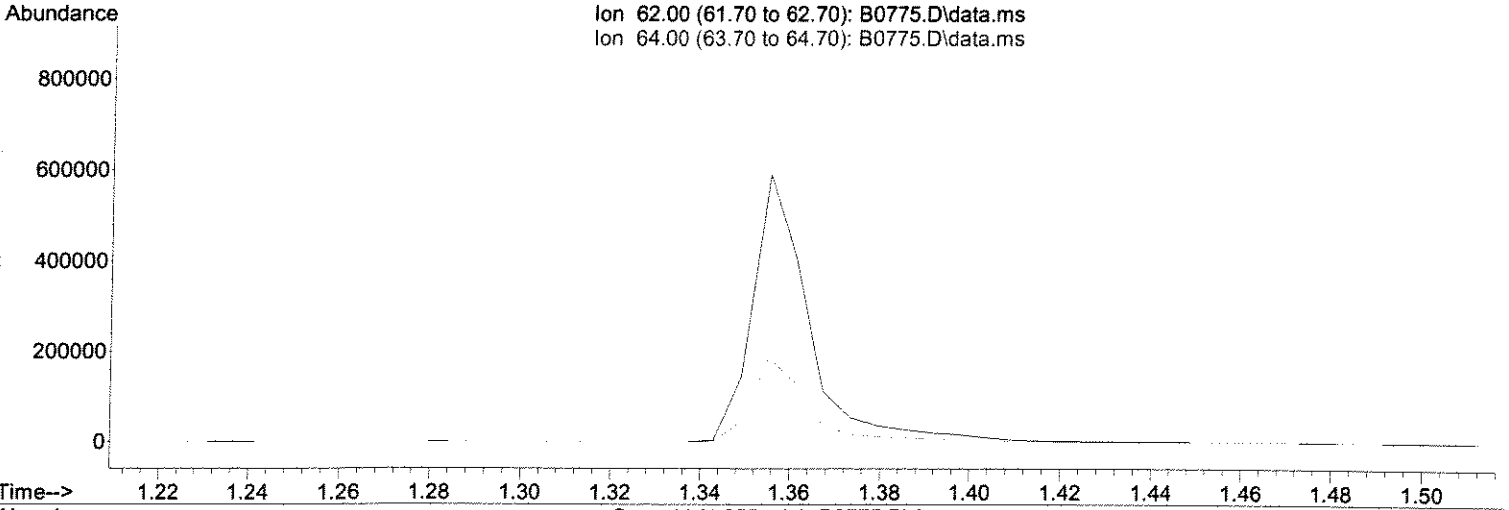
Quantitation Report (Qedit)

Sample : 50 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0775.D Vial: 9
Acq On : 26 Jun 2008 3:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Fw
d3+3

Quant Time: Jun 30 08:41:40 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

B missed peak



(5) Vinyl Chloride (c)

1.355min (-1.355) 0.00 ug/L

response 0

Ion	Exp%	Act%
62.00	100	0.00
64.00	31.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

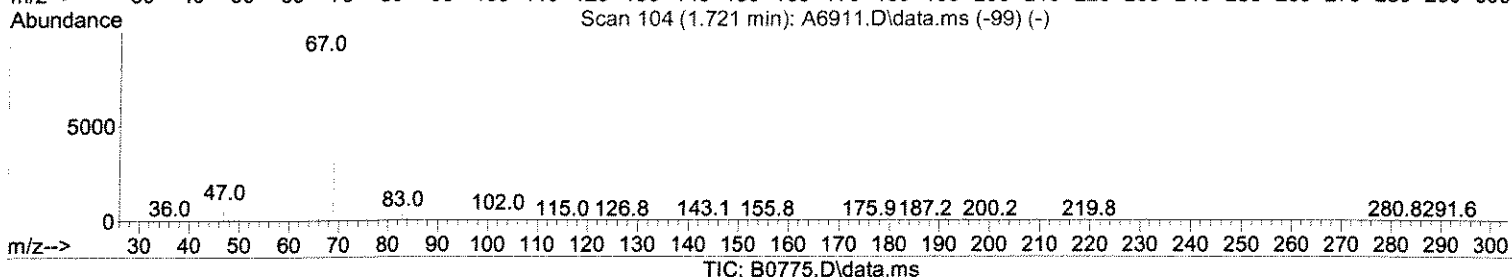
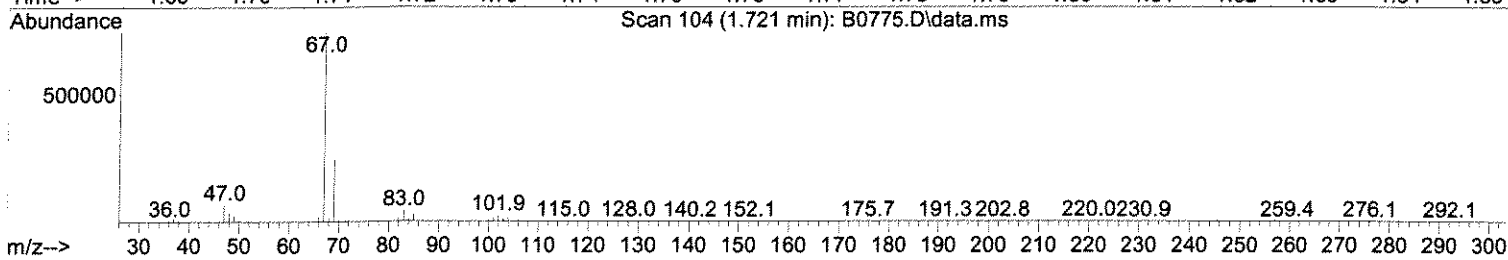
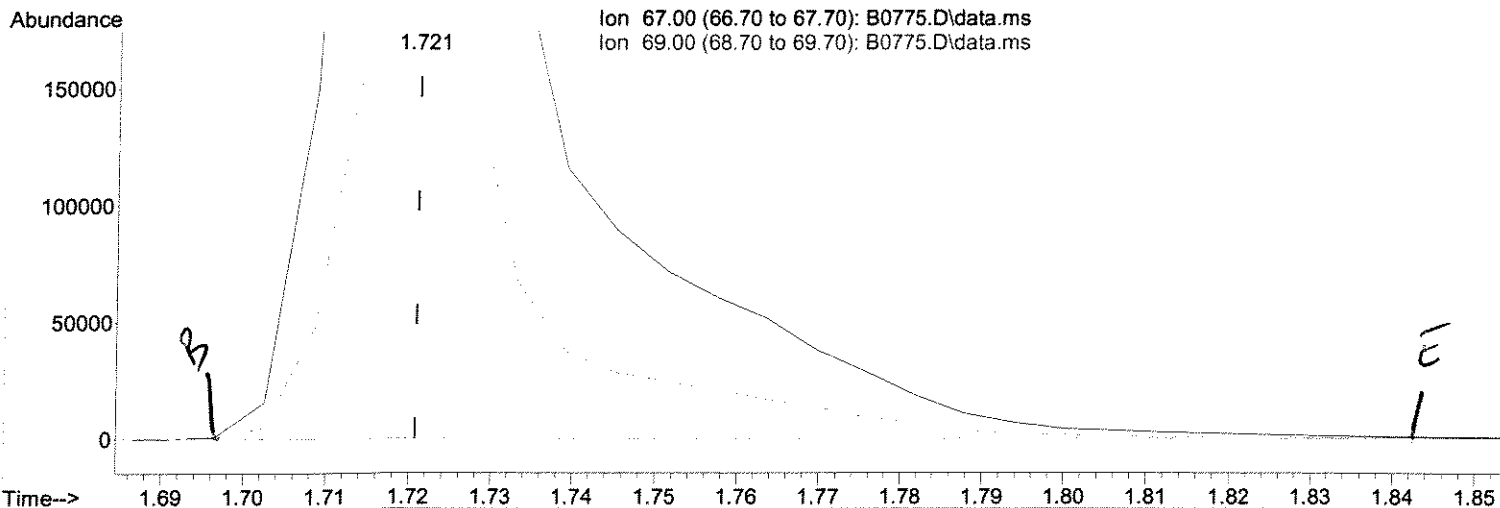
Quantitation Report (Qedit)

Sample : 50 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0775.D Vial: 9
 Acq On : 26 Jun 2008 3:52 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FN
6/30/08

Quant Time: Jun 30 08:41:40 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

A
027/0



(8) Freon 21

1.721min (-0.000) 52.04 ug/L m

response 963238

Ion	Exp%	Act%
67.00	100	100
69.00	32.70	32.71
0.00	0.00	0.00
0.00	0.00	0.00

Sample : 100 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0776.D Vial: 10
 Acq On : 26 Jun 2008 4:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FU
6/30/08

Quant Time: Jun 30 08:41:47 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1365167	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2090538	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1898041	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.853	152	1076439	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	1189268	95.77	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	191.54%		
49) surr1,1,2-dichloroetha...	4.891	65	1242929	94.59	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	189.18%		
65) SURR3,Toluene-d8	7.451	98	4408364	96.87	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	193.74%		
70) SURR2,BFB	9.896	95	1812393	96.71	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	193.42%		
Target Compounds							
2) Dichlorodifluoromethane	1.184	85	1103173	101.06	ug/L		98
4) Chloromethane	1.294	50	1003306	98.98	ug/L		99
5) Vinyl Chloride	1.355	62	1046732	100.15	ug/L		99
6) Bromomethane	1.556	94	691895	92.58	ug/L		98
7) Chloroethane	1.611	64	546502	93.91	ug/L		99
8) Freon 21	1.721	67	1931596	98.57	ug/L		99
9) Trichlorofluoromethane	1.763	101	1745473	95.39	ug/L		99
10) Diethyl Ether	1.934	59	582656	94.45	ug/L		99
11) Freon 123a	1.928	67	1132845	95.27	ug/L		95
12) Freon 123	1.971	83	1417056	98.89	ug/L		100
13) Acrolein	2.026	56	471342	590.27	ug/L		99
14) 1,1-Dicethene	2.099	96	897691	97.45	ug/L		97
15) Freon 113	2.093	101	943355	95.91	ug/L		99
16) Acetone	2.123	43	148750	88.31	ug/L		96
17) 2-Propanol	2.196	45	752399	2100.86	ug/L		100
18) Iodomethane	2.221	142	1619366	109.58	ug/L		97
19) Carbon Disulfide	2.276	76	3590118	101.66	ug/L		99
20) Acetonitrile	2.324	40	119544	507.25	ug/L		94
21) Allyl Chloride	2.355	76	529065	103.05	ug/L		93
22) Methyl Acetate	2.355	43	475889	96.50	ug/L		99
23) Methylene Chloride	2.446	84	1033538	90.39	ug/L		98
24) TBA	2.507	59	1167990	2055.29	ug/L		94
25) Acrylonitrile	2.641	53	1146745	493.82	ug/L		99
26) Methyl-t-Butyl Ether	2.666	73	2389191	102.41	ug/L		99
27) trans-1,2-Dichloroethene	2.678	96	1031802	97.82	ug/L		98
28) 1,1-Dicethane	3.062	63	1902239	97.91	ug/L		99
29) Vinyl Acetate	3.099	86	120897	112.64	ug/L		92
30) DIPE	3.117	45	2968483	104.87	ug/L		99
31) 2-Chloro-1,3-Butadiene	3.153	53	1665798	110.49	ug/L		95
32) ETBE	3.519	59	2848295	108.02	ug/L		100
33) 2,2-Dichloropropane	3.702	77	1508687	108.71	ug/L		99
34) cis-1,2-Dichloroethene	3.696	96	1131717	99.39	ug/L		98
35) 2-Butanone	3.714	43	261694	92.63	ug/L		96
37) Propionitrile	3.787	54	450473	515.72	ug/L		94
38) Bromochloromethane	4.007	130	674739	94.65	ug/L		99

Sample : 100 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0776.D Vial: 10
 Acq On : 26 Jun 2008 4:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 08:41:47 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	253398	103.95	ug/L	95
40) Tetrahydrofuran	4.068	42	157471	96.67	ug/L	92
41) Chloroform	4.117	83	1946396	98.27	ug/L	99
42) 1,1,1-Trichloroethane	4.385	97	1771426	100.01	ug/L	100
43) TAME	5.208	73	2369039	104.33	ug/L	99
45) Cyclohexane	4.464	41	870198	99.55	ug/L	100
47) Carbontetrachloride	4.641	121	515306	99.65	ug/L	94
48) 1,1-Dichloropropene	4.641	75	1497795	101.12	ug/L	99
50) Benzene	4.988	78	4191888	99.52	ug/L	99
51) 1,2-Dichloroethane	5.025	62	1397874	96.12	ug/L	99
52) Iso-Butyl Alcohol	4.885	43	492219	2063.00	ug/L	96
53) n-Heptane	5.476	43	944727	109.58	ug/L	98
54) Trichloroethene	5.988	130	1141589	98.71	ug/L	99
55) Methylcyclohexane	6.232	55	1344264	106.39	ug/L	99
56) 1,2-Diclpropane	6.281	63	1068127	101.80	ug/L	99
57) Dibromomethane	6.427	93	583709	95.26	ug/L	97
58) 1,4-Dioxane	6.476	88	170420	2528.75	ug/L	93
59) Methyl Methacrylate	6.482	69	443475	108.68	ug/L	99
60) Bromodichloromethane	6.641	83	1524626	101.03	ug/L	99
62) 2-Chloroethylvinyl Ether	7.025	63	387235	125.61	ug/L	94
63) cis-1,3-Dichloropropene	7.165	75	1736515	110.29	ug/L	100
64) 4-Methyl-2-pentanone	7.354	43	588596	100.73	ug/L	98
66) Toluene	7.518	91	4564512	99.14	ug/L	99
67) trans-1,3-Dichloropropene	7.768	75	1531236	112.95	ug/L	100
68) Ethyl Methacrylate	7.884	69	931724	116.59	ug/L	100
69) 1,1,2-Trichloroethane	7.945	97	801668	98.63	ug/L	99
72) Tetrachloroethene	8.073	164	936214	98.91	ug/L	98
73) 2-Hexanone	8.213	43	415276	99.11	ug/L	99
74) 1,3-Dichloropropane	8.104	76	1427144	99.10	ug/L	99
75) Dibromochloromethane	8.317	129	1127575	104.03	ug/L	99
76) 1,2-Dibromoethane	8.415	107	845565	100.48	ug/L	99
77) Chlorobenzene	8.884	112	3122111	98.88	ug/L	100
78) 1,1,1,2-Tetrachloroethane	8.963	131	1174238	104.17	ug/L	99
79) Ethylbenzene	8.994	106	1652393	103.70	ug/L	100
80) (m+p)Xylene	9.104	106	4023855	208.53	ug/L	98
81) o-Xylene	9.445	106	1981951	107.56	ug/L	98
82) Styrene	9.463	104	3400811	108.05	ug/L	100
83) Bromoform	9.616	173	701529	105.56	ug/L	99
84) Isopropylbenzene	9.768	105	5194802	109.21	ug/L	99
85) Cyclohexanone	9.841	55	1584199	1838.94	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.073	53	174628	102.06	ug/L	91
88) 1,1,2,2-Tetrachloroethane	10.024	83	963560	96.93	ug/L	99
89) Bromobenzene	10.018	156	1382047	100.56	ug/L	99
91) 1,2,3-Trichloropropane	10.055	110	285400	96.09	ug/L	96
92) n-Propylbenzene	10.116	91	6385772	107.35	ug/L	99
93) 2-Chlorotoluene	10.183	91	3870999	103.95	ug/L	99
94) 4-Chlorotoluene	10.274	91	4515756	104.14	ug/L	100
95) 1,3,5-Trimethylbenzene	10.268	105	4523262	106.64	ug/L	98
96) tert-Butylbenzene	10.530	119	3794359	109.26	ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	4739838	108.08	ug/L	98
98) sec-Butylbenzene	10.713	105	5500101	108.19	ug/L	99
99) p-Isopropyltoluene	10.829	119	4824725	108.91	ug/L	99

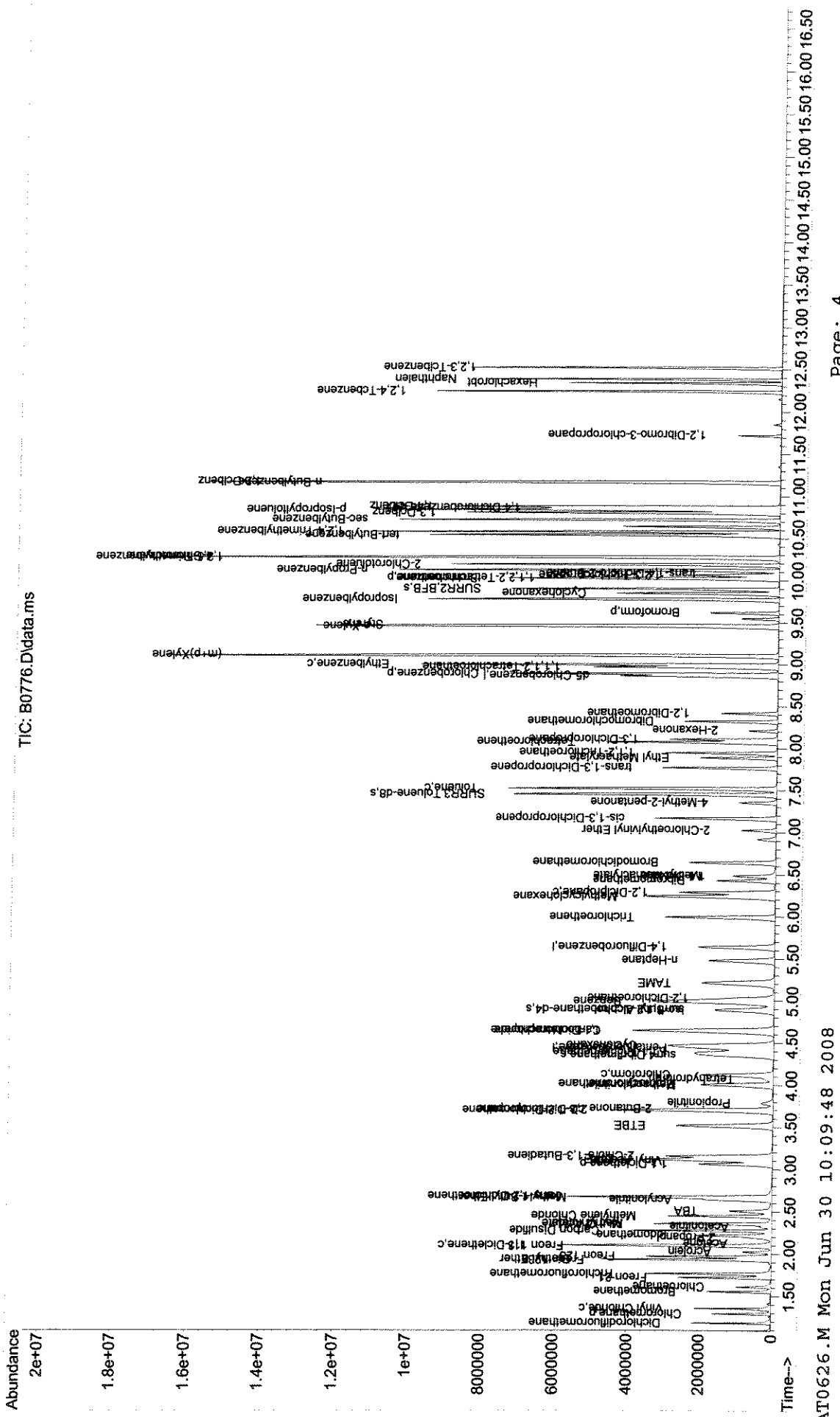
Sample : 100 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0776.D Vial: 10
 Acq On : 26 Jun 2008 4:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 08:41:47 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	2739275	101.03	ug/L	99
101) 1,4-Dclbenz	10.871	146	2762988	98.50	ug/L	100
103) n-Butylbenzene	11.152	91	4162625	108.59	ug/L	99
104) 1,2-Dclbenz	11.164	146	2524426	98.88	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	223701	103.12	ug/L	98
107) 1,2,4-Tcbenzene	12.237	180	1819702	104.44	ug/L	99
108) Hexachlorobt	12.335	225	703147	99.40	ug/L	99
109) Naphthalen	12.377	128	3667317	111.04	ug/L	99
110) 1,2,3-Tclbenzene	12.517	180	1617816	101.37	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : 100 PPB STD
 Data File : J:\ACQDATA\msvoa10\data\062608\B0776.D Vial: 10
 Acq On : 26 Jun 2008 4:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :
 Quant Time: Jun 30 08:41:47 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration



Sample : 150 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0777.D Vial: 11
 Acq On : 26 Jun 2008 5:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FU
6/30/08

Quant Time: Jun 30 08:41:56 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1418241	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2164155	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	1988588	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.853	152	1124265	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.354	113	1497645	116.50	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	233.00%		
49) surr1,1,2-dichloroetha...	4.891	65	1582845	116.36	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	232.72%		
65) SURR3,Toluene-d8	7.451	98	5536878	117.53	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	235.06%		
70) SURR2,BFB	9.896	95	2275602	117.29	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	234.58%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.184	85	1631890	143.90	ug/L		98
4) Chloromethane	1.294	50	1505069	142.92	ug/L		100
5) Vinyl Chloride	1.355	62	1536566	141.51	ug/L		99
6) Bromomethane	1.556	94	992843	127.88	ug/L		100
7) Chloroethane	1.611	64	775624	128.29	ug/L		99
8) Freon 21	1.721	67	2895607	142.24	ug/L		100
9) Trichlorofluoromethane	1.763	101	2541202	133.68	ug/L		98
10) Diethyl Ether	1.934	59	891950	139.17	ug/L		99
11) Freon 123a	1.934	67	1727679	139.86	ug/L		99
12) Freon 123	1.971	83	2157274	144.91	ug/L		99
13) Acrolein	2.026	56	679490	819.10	ug/L		99
14) 1,1-Dicethene	2.105	96	1340910	140.12	ug/L		96
15) Freon 113	2.093	101	1409143	137.90	ug/L		100
16) Acetone	2.123	43	255876	146.22	ug/L		94
17) 2-Propanol	2.196	45	1349824	3627.96	ug/L		100
18) Iodomethane	2.221	142	2370566	154.41	ug/L		97
19) Carbon Disulfide	2.276	76	5404407	147.31	ug/L		99
20) Acetonitrile	2.324	40	180447	737.02	ug/L		92
21) Allyl Chloride	2.355	76	782838	146.77	ug/L		93
22) Methyl Acetate	2.361	43	770765	150.45	ug/L		98
23) Methylene Chloride	2.446	84	1569587	132.14	ug/L		98
24) TBA	2.507	59	2145633	3634.34	ug/L		93
25) Acrylonitrile	2.641	53	1904441	789.41	ug/L		99
26) Methyl-t-Butyl Ether	2.666	73	3851172	158.90	ug/L		99
27) trans-1,2-Dichloroethene	2.678	96	1536043	140.17	ug/L		98
28) 1,1-Dicethane	3.062	63	2820139	139.73	ug/L		99
29) Vinyl Acetate	3.105	86	191245	171.52	ug/L		96
30) DIPE	3.117	45	4547211	154.64	ug/L		97
31) 2-Chloro-1,3-Butadiene	3.153	53	2479714	158.32	ug/L		97
32) ETBE	3.519	59	4538195	165.67	ug/L		100
33) 2,2-Dichloropropane	3.702	77	2254237	156.35	ug/L		99
34) cis-1,2-Dichloroethene	3.702	96	1694414	143.24	ug/L		99
35) 2-Butanone	3.714	43	453960	154.68	ug/L		96
37) Propionitrile	3.787	54	775766	854.89	ug/L		96
38) Bromochloromethane	4.007	130	1031521	139.28	ug/L		99

Sample : 150 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0777.D Vial: 11
 Acq On : 26 Jun 2008 5:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 08:41:56 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	430123	169.85	ug/L	94
40) Tetrahydrofuran	4.074	42	261721	154.65	ug/L	96
41) Chloroform	4.123	83	2897097	140.79	ug/L	99
42) 1,1,1-Trichloroethane	4.385	97	2635276	143.22	ug/L	99
43) TAME	5.214	73	3937804	166.93	ug/L	99
45) Cyclohexane	4.470	41	1323522	146.26	ug/L	99
47) Carbontetrachloride	4.641	121	771336	144.09	ug/L	95
48) 1,1-Dichloropropene	4.647	75	2239618	146.07	ug/L	97
50) Benzene	4.988	78	6303562	144.56	ug/L	99
51) 1,2-Dichloroethane	5.025	62	2148101	142.69	ug/L	99
52) Iso-Butyl Alcohol	4.891	43	908348	3677.58	ug/L	94
53) n-Heptane	5.476	43	1370537	153.56	ug/L	98
54) Trichloroethene	5.994	130	1714131	143.17	ug/L	99
55) Methylcyclohexane	6.238	55	2067071	158.03	ug/L	97
56) 1,2-Diclp propane	6.287	63	1619762	149.13	ug/L	99
57) Dibromomethane	6.427	93	920370	145.09	ug/L	100
58) 1,4-Dioxane	6.476	88	288491	4135.12	ug/L	99
59) Methyl Methacrylate	6.482	69	758186	179.48	ug/L	100
60) Bromodichloromethane	6.641	83	2296263	146.99	ug/L	100
62) 2-Chloroethylvinyl Ether	7.025	63	589236	184.63	ug/L	95
63) cis-1,3-Dichloropropene	7.165	75	2660930	163.26	ug/L	100
64) 4-Methyl-2-pentanone	7.354	43	1034021	170.94	ug/L	99
66) Toluene	7.518	91	6833643	143.37	ug/L	100
67) trans-1,3-Dichloropropene	7.768	75	2398917	170.93	ug/L	99
68) Ethyl Methacrylate	7.890	69	1564043	189.05	ug/L	94
69) 1,1,2-Trichloroethane	7.945	97	1286677	152.91	ug/L	98
72) Tetrachloroethene	8.073	164	1414953	142.68	ug/L	99
73) 2-Hexanone	8.213	43	740564	168.70	ug/L	97
74) 1,3-Dichloropropane	8.104	76	2256322	149.54	ug/L	99
75) Dibromochloromethane	8.323	129	1789180	157.55	ug/L	98
76) 1,2-Dibromoethane	8.415	107	1366101	154.94	ug/L	99
77) Chlorobenzene	8.884	112	4690794	141.80	ug/L	100
78) 1,1,1,2-Tetrachloroethane	8.963	131	1778712	150.61	ug/L	99
79) Ethylbenzene	8.994	106	2469579	147.93	ug/L	99
80) (m+p)Xylene	9.103	106	5928178	293.23	ug/L	91
81) o-Xylene	9.451	106	2948247	152.71	ug/L	99
82) Styrene	9.463	104	5123243	155.37	ug/L	99
83) Bromoform	9.616	173	1162730	166.99	ug/L	99
84) Isopropylbenzene	9.768	105	7875491	158.03	ug/L	100
85) Cyclohexanone	9.841	55	2819825	3124.21	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.073	53	290306	161.94	ug/L	90
88) 1,1,2,2-Tetrachloroethane	10.030	83	1594489	153.58	ug/L	98
89) Bromobenzene	10.018	156	2109198	146.94	ug/L	97
91) 1,2,3-Trichloropropane	10.061	110	473411	152.62	ug/L	96
92) n-Propylbenzene	10.122	91	9598350	154.49	ug/L	99
93) 2-Chlorotoluene	10.183	91	5825146	149.77	ug/L	99
94) 4-Chlorotoluene	10.274	91	6716400	148.30	ug/L	98
95) 1,3,5-Trimethylbenzene	10.268	105	6766729	152.74	ug/L	99
96) tert-Butylbenzene	10.536	119	5743690	158.36	ug/L	99
97) 1,2,4-Trimethylbenzene	10.573	105	7147853	156.06	ug/L	99
98) sec-Butylbenzene	10.713	105	8287815	156.10	ug/L	99
99) p-Isopropyltoluene	10.829	119	7248932	156.68	ug/L	99

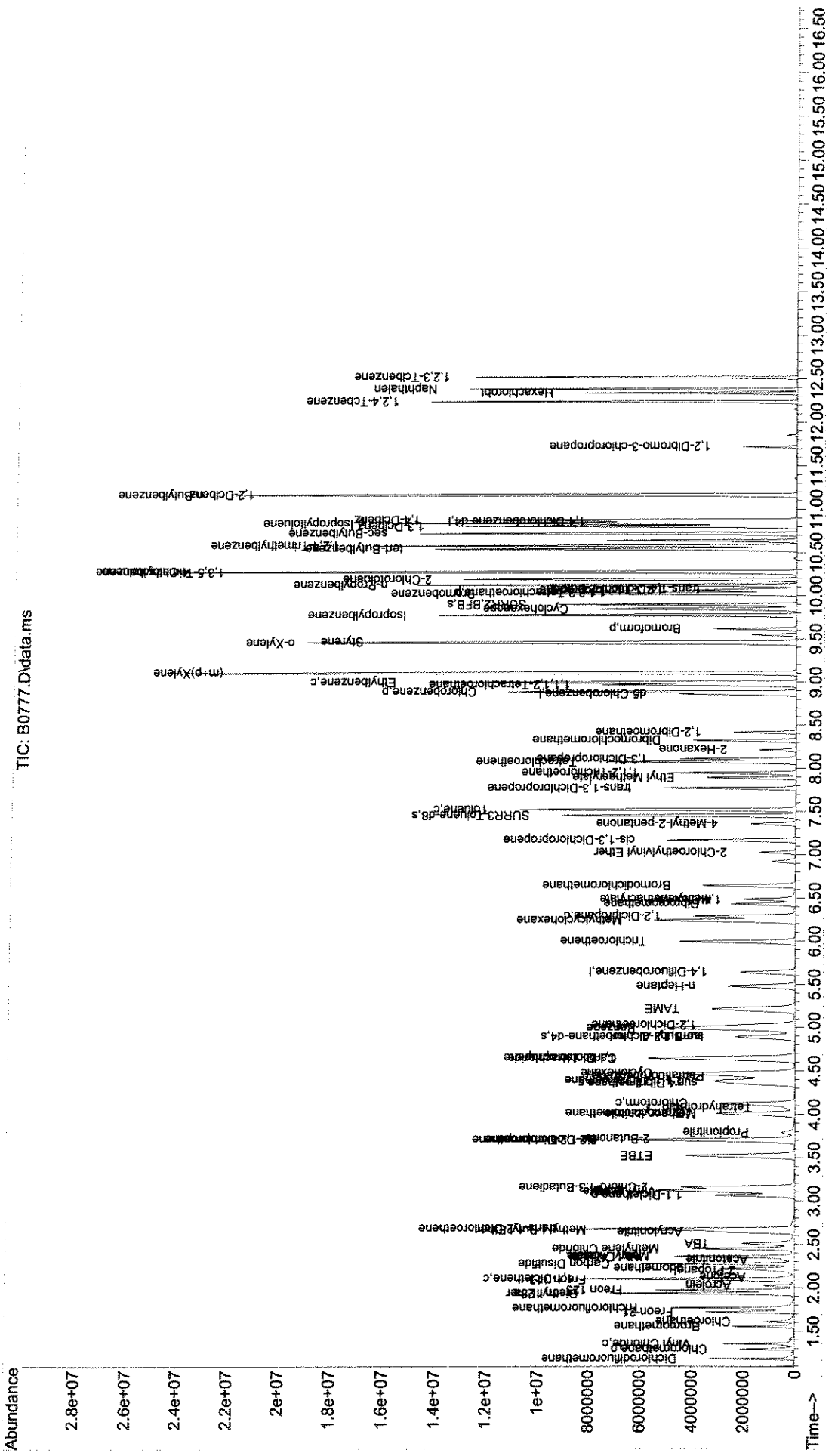
Sample : 150 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0777.D Vial: 11
 Acq On : 26 Jun 2008 5:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 08:41:56 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	4184955	147.78	ug/L	99
101) 1,4-Dclbenz	10.871	146	4222756	144.14	ug/L	99
103) n-Butylbenzene	11.158	91	6152417	153.67	ug/L	98
104) 1,2-Dclbenz	11.164	146	3831176	143.68	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	391983	173.01	ug/L	99
107) 1,2,4-Tcbenzene	12.237	180	2805358	154.15	ug/L	98
108) Hexachlorobt	12.335	225	1001987	135.62	ug/L	98
109) Naphthalen	12.377	128	6148395	178.24	ug/L	99
110) 1,2,3-Tclbenzene	12.517	180	2562646	153.74	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : 150 PPB STD
 Data File : J:\ACQDATA\msvoa10\data\062608\B0777.D Vial: 11
 Acq On : 26 Jun 2008 5:19 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :
 Quant Time: Jun 30 08:41:56 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration



Sample : 200 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
 Acq On : 26 Jun 2008 5:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
6/30/08

Quant Time: Jun 30 09:40:06 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Pentafluorobenzene	4.440	168	1459126	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2237917	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2060561	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.853	152	1142832	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.355	113	1842101	138.57	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	277.14%		
49) surr1,1,2-dichloroetha...	4.891	65	1912140	135.93	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	271.86%		
65) SURR3,Toluene-d8	7.452	98	6819646	139.99	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	279.98%		
70) SURR2,BFB	9.896	95	2826772	140.90	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	281.80%		
Target Compounds							
2) Dichlorodifluoromethane	1.184	85	2329859	199.69	ug/L		99
4) Chloromethane	1.294	50	2092174	193.11	ug/L		100
5) Vinyl Chloride	1.355	62	2188294m	195.89	ug/L		
6) Bromomethane	1.550	94	1379537	172.71	ug/L		98
7) Chloroethane	1.611	64	1088015m	174.92	ug/L		
8) Freon 21	1.721	67	3855696	184.09	ug/L		99
9) Trichlorofluoromethane	1.764	101	3549117	181.47	ug/L		98
10) Diethyl Ether	1.934	59	1208766	183.32	ug/L		99
11) Freon 123a	1.934	67	2164815m	170.34	ug/L		
12) Freon 123	1.971	83	2871568m	187.49	ug/L		
13) Acrolein	2.026	56	892409	1045.62	ug/L		99
14) 1,1-Dicethene	2.105	96	1908497	193.85	ug/L		95
15) Freon 113	2.093	101	1976301	187.99	ug/L		98
16) Acetone	2.123	43	343546	190.82	ug/L		96
17) 2-Propanol	2.203	45	1768336	4619.63	ug/L		98
18) Iodomethane	2.221	142	3146004	199.18	ug/L		97
19) Carbon Disulfide	2.276	76	7306918	193.59	ug/L		99
20) Acetonitrile	2.324	40	245112	973.09	ug/L		97
21) Allyl Chloride	2.355	76	1117007	203.55	ug/L		90
22) Methyl Acetate	2.361	43	1025615	194.58	ug/L		97
23) Methylene Chloride	2.446	84	2235293	182.91	ug/L		96
24) TBA	2.507	59	2877520	4737.47	ug/L		90
25) Acrylonitrile	2.642	53	2563190	1032.70	ug/L		99
26) Methyl-t-Butyl Ether	2.666	73	5325287	213.56	ug/L		98
27) trans-1,2-Dichloroethene	2.678	96	2184978	193.80	ug/L		97
28) 1,1-Dicethane	3.062	63	4046528	194.87	ug/L		99
29) Vinyl Acetate	3.099	86	278222	242.53	ug/L		74
30) DIPE	3.117	45	6034520	199.46	ug/L		97
31) 2-Chloro-1,3-Butadiene	3.154	53	3311615	205.51	ug/L		96
32) ETBE	3.519	59	6147246	218.11	ug/L		99
33) 2,2-Dichloropropane	3.702	77	3204800	216.05	ug/L		99
34) cis-1,2-Dichloroethene	3.702	96	2414829	198.43	ug/L		96
35) 2-Butanone	3.714	43	596569	197.58	ug/L		95
37) Propionitrile	3.788	54	1041903	1116.00	ug/L		97
38) Bromochloromethane	4.007	130	1444533	189.58	ug/L		98



Sample : 200 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
 Acq On : 26 Jun 2008 5:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:40:06 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	588718	225.96	ug/L	92
40) Tetrahydrofuran	4.074	42	365745	210.06	ug/L	93
41) Chloroform	4.123	83	4129053	195.04	ug/L	99
42) 1,1,1-Trichloroethane	4.385	97	3800035	200.73	ug/L	99
43) TAME	5.214	73	5386695	221.95	ug/L	99
45) Cyclohexane	4.470	41	1794487	191.77	ug/L	99
47) Carbontetrachloride	4.641	121	1095864	197.96	ug/L	97
48) 1,1-Dichloropropene	4.647	75	3217291	202.91	ug/L	96
50) Benzene	4.989	78	9068135	201.11	ug/L	98
51) 1,2-Dichloroethane	5.025	62	2969958	190.78	ug/L	99
52) Iso-Butyl Alcohol	4.897	43	1207478	4727.52	ug/L	91
53) n-Heptane	5.476	43	1960848	212.46	ug/L	98
54) Trichloroethene	5.995	130	2487537	200.92	ug/L	99
55) Methylcyclohexane	6.238	55	2790154	206.28	ug/L	95
56) 1,2-Dicloropropane	6.287	63	2297245	204.53	ug/L	100
57) Dibromomethane	6.427	93	1284368	195.80	ug/L	99
58) 1,4-Dioxane	6.482	88	377936	5238.63	ug/L	99
59) Methyl Methacrylate	6.482	69	1045869	239.42	ug/L	98
60) Bromodichloromethane	6.641	83	3239014	200.50	ug/L	100
62) 2-Chloroethylvinyl Ether	7.025	63	758753	229.91	ug/L	95
63) cis-1,3-Dichloropropene	7.165	75	3747342	222.34	ug/L	100
64) 4-Methyl-2-pentanone	7.354	43	1399527	223.74	ug/L	99
66) Toluene	7.519	91	9745236	197.71	ug/L	100
67) trans-1,3-Dichloropropene	7.769	75	3368501	232.11	ug/L	99
68) Ethyl Methacrylate	7.890	69	2160612	252.55	ug/L	96
69) 1,1,2-Trichloroethane	7.945	97	1776043	204.11	ug/L	99
72) Tetrachloroethene	8.073	164	2043265	198.84	ug/L	98
73) 2-Hexanone	8.214	43	1005305	221.01	ug/L	97
74) 1,3-Dichloropropane	8.104	76	3137428	200.68	ug/L	100
75) Dibromochloromethane	8.323	129	2503688	212.76	ug/L	98
76) 1,2-Dibromoethane	8.415	107	1902663	208.26	ug/L	99
77) Chlorobenzene	8.884	112	6677781	194.82	ug/L	100
78) 1,1,1,2-Tetrachloroethane	8.963	131	2525205	206.35	ug/L	100
79) Ethylbenzene	8.994	106	3506132	202.69	ug/L	91
80) (m+p)Xylene	9.104	106	8252316	393.93	ug/L #	61
81) o-Xylene	9.451	106	4114426	205.67	ug/L	98
82) Styrene	9.463	104	7159706	209.54	ug/L	99
83) Bromoform	9.616	173	1622587	224.90	ug/L	99
84) Isopropylbenzene	9.774	105	11145887	215.84	ug/L	99
85) Cyclohexanone	9.841	55	3493547	3735.46	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.073	53	400143	215.41	ug/L	90
88) 1,1,2,2-Tetrachloroethane	10.030	83	2154925	204.19	ug/L	98
89) Bromobenzene	10.018	156	2996617	205.37	ug/L	98
91) 1,2,3-Trichloropropane	10.061	110	647646	205.39	ug/L	96
92) n-Propylbenzene	10.116	91	11904830	188.50	ug/L #	92
93) 2-Chlorotoluene	10.183	91	8268660	209.14	ug/L	98
94) 4-Chlorotoluene	10.274	91	9303141	202.07	ug/L	97
95) 1,3,5-Trimethylbenzene	10.268	105	9384762	208.40	ug/L	99
96) tert-Butylbenzene	10.536	119	8267642	224.24	ug/L	99
97) 1,2,4-Trimethylbenzene	10.573	105	9915193	212.96	ug/L	98
98) sec-Butylbenzene	10.713	105	11239855	208.26	ug/L	96
99) p-Isopropyltoluene	10.835	119	10190850	216.69	ug/L	98

Sample : 200 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
 Acq On : 26 Jun 2008 5:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:40:06 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	5889426	204.59	ug/L	99
101) 1,4-Dclbenz	10.872	146	5935993	199.32	ug/L	99
103) n-Butylbenzene	11.158	91	8456826	207.79	ug/L	97
104) 1,2-Dclbenz	11.164	146	5321420	196.33	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	533721	231.74	ug/L	99
107) 1,2,4-Tcbenzene	12.237	180	3924785	212.16	ug/L	98
108) Hexachlorobt	12.335	225	1451531	193.27	ug/L	99
109) Naphthalen	12.377	128	8118026	231.51	ug/L	99
110) 1,2,3-Tclbenzene	12.518	180	3534791	208.62	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

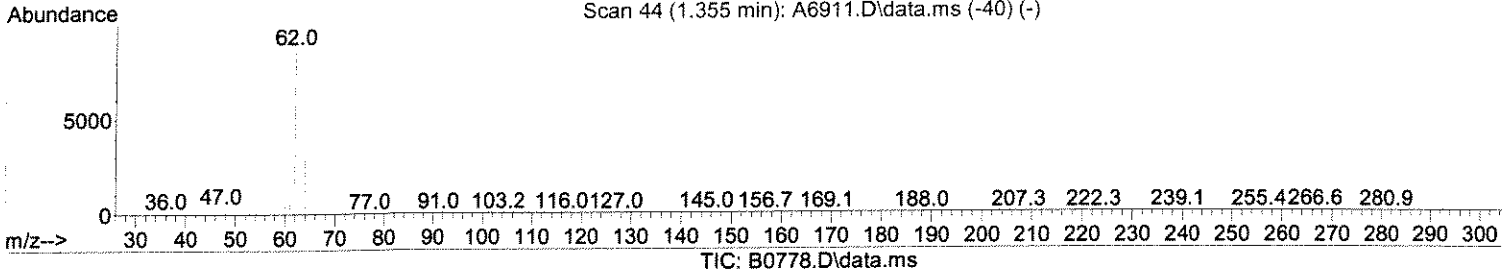
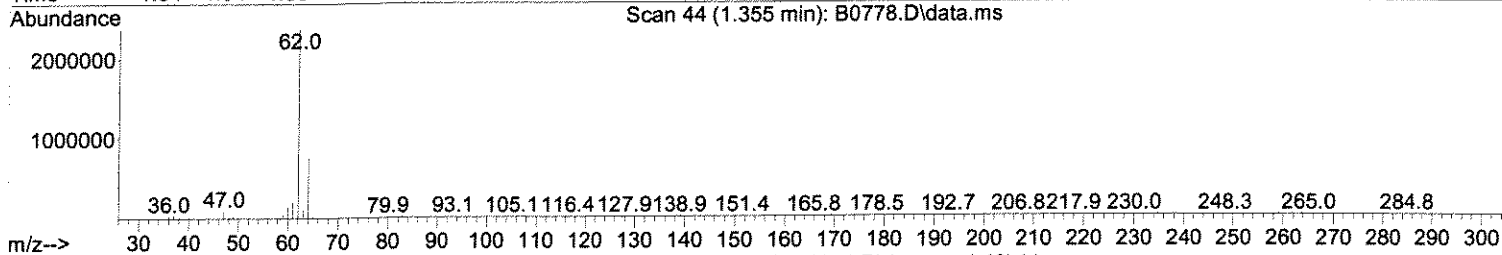
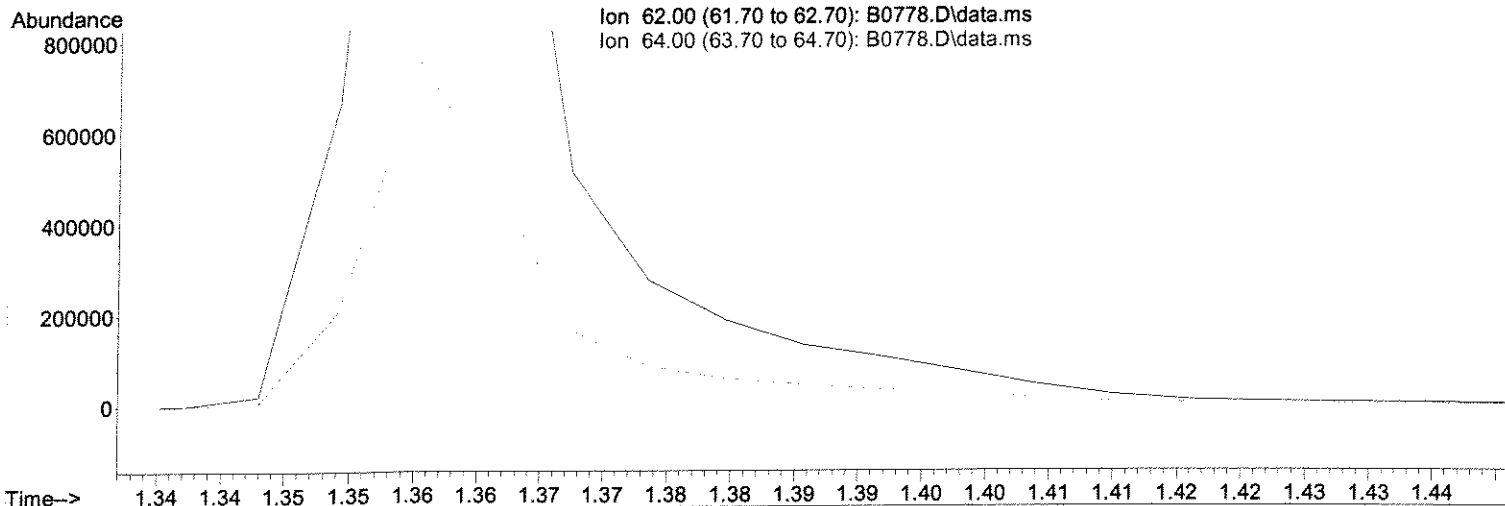
Sample : 200 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
 Acq On : 26 Jun 2008 5:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
6/30/08

Quant Time: Jun 30 08:42:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

B

missed peak
07/19



(5) Vinyl Chloride (c)

1.355min (-1.355) 0.00 ug/L

response 0

Ion	Exp%	Act%
62.00	100	0.00
64.00	31.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

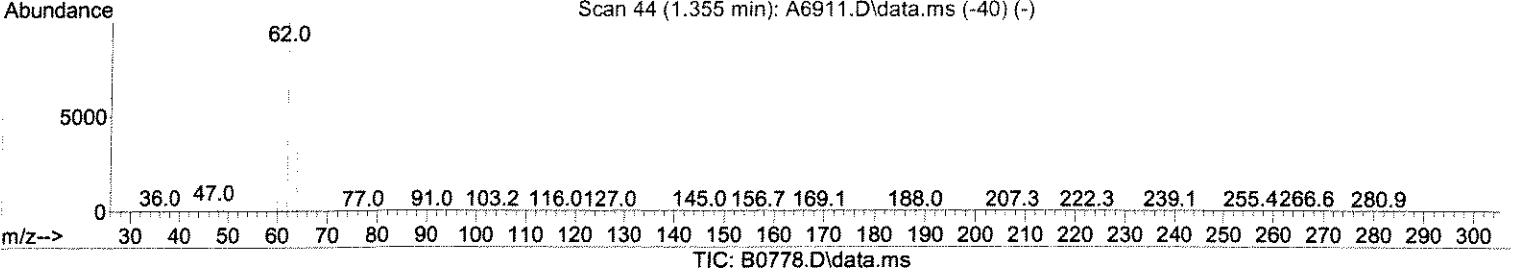
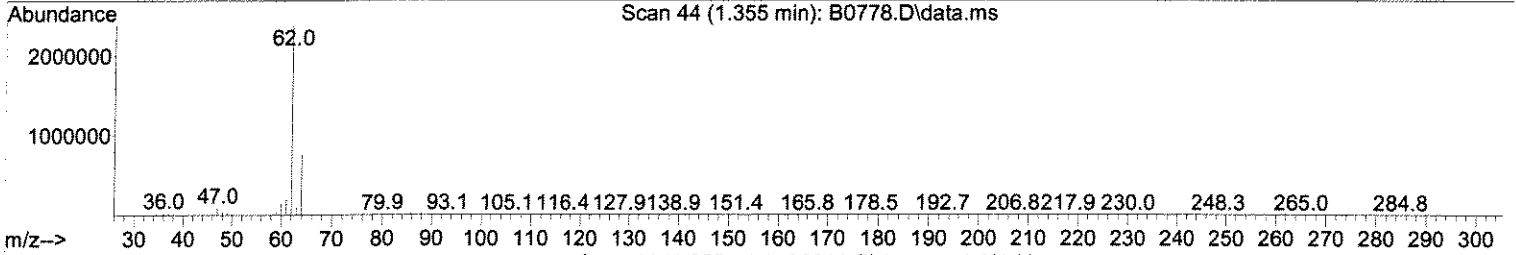
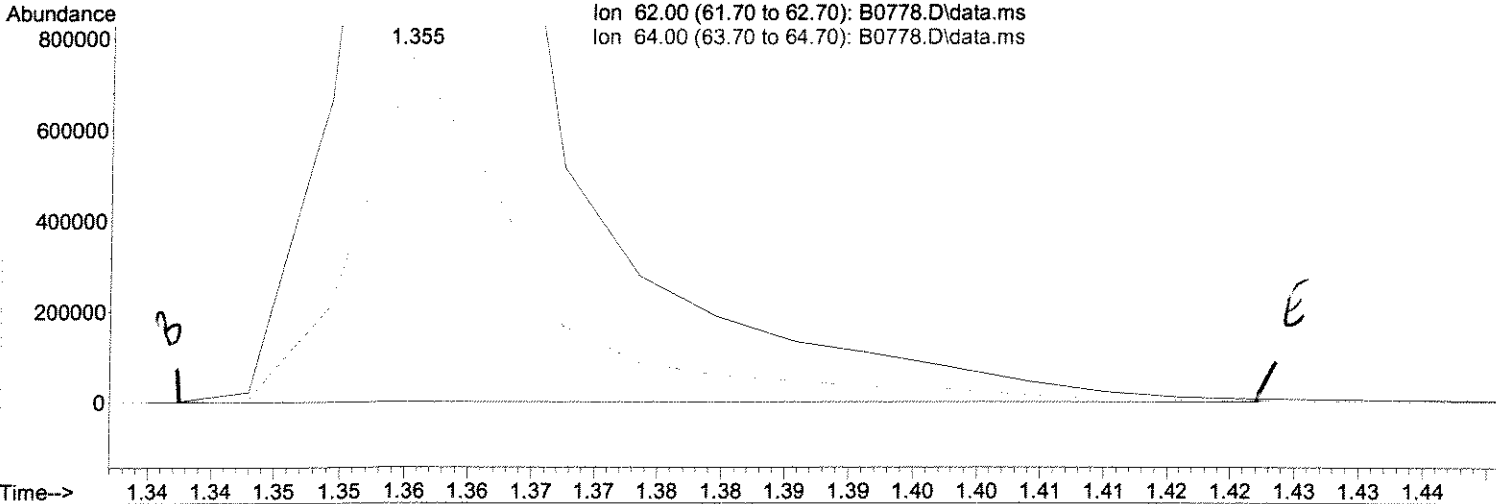
Sample : 200 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
 Acq On : 26 Jun 2008 5:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FJ
6/30/08

Quant Time: Jun 30 08:42:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

A

D-7/18



(5) Vinyl Chloride (c)

1.355min (+0.000) 195.89 ug/L m

response 2188294

Ion	Exp%	Act%
62.00	100	100
64.00	31.50	31.80
0.00	0.00	0.00
0.00	0.00	0.00

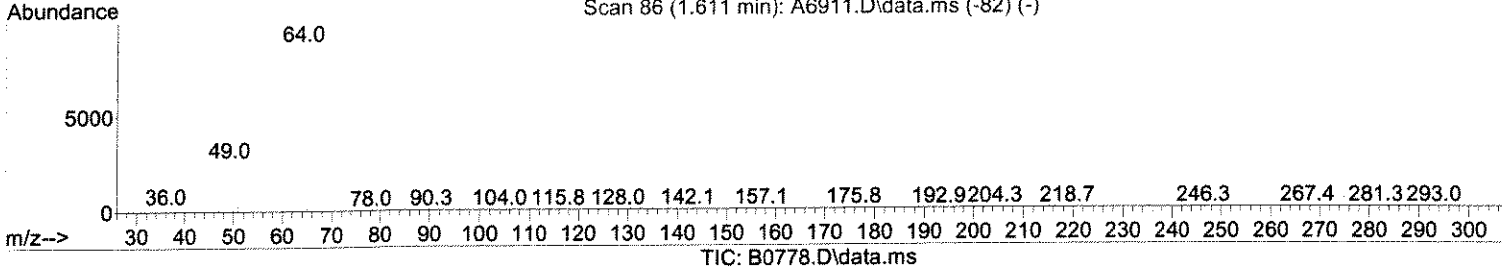
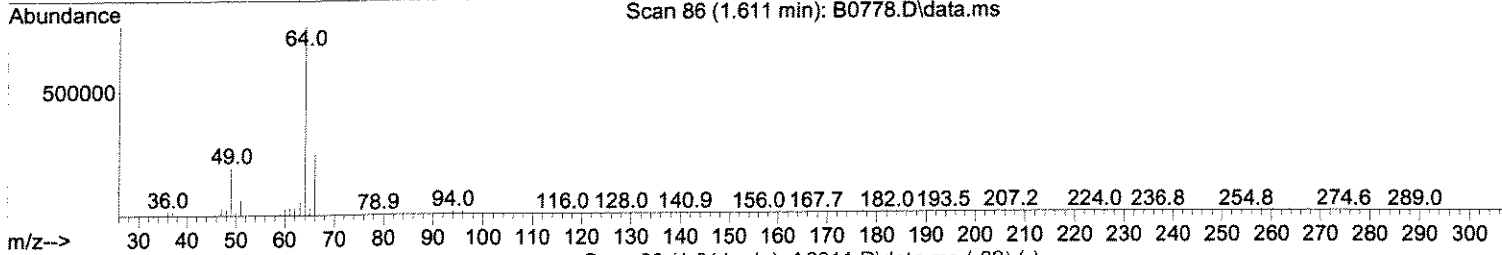
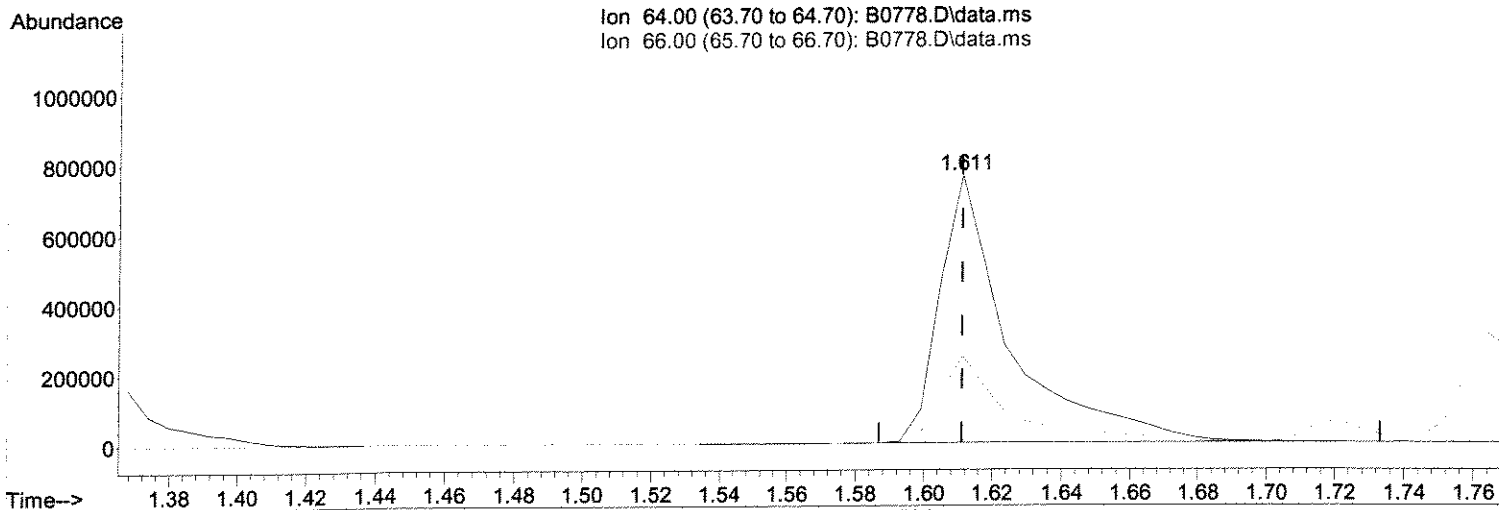
Quantitation Report (Qedit)

Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

*FJ
6/30/08*

Quant Time: Jun 30 08:42:05 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

B bad int.



(7) Chloroethane
1.611min (+0.000) 175.21 ug/L
response 1089830
Ion Exp% Act%
64.00 100 100
66.00 32.30 32.55
0.00 0.00 0.00
0.00 0.00 0.00

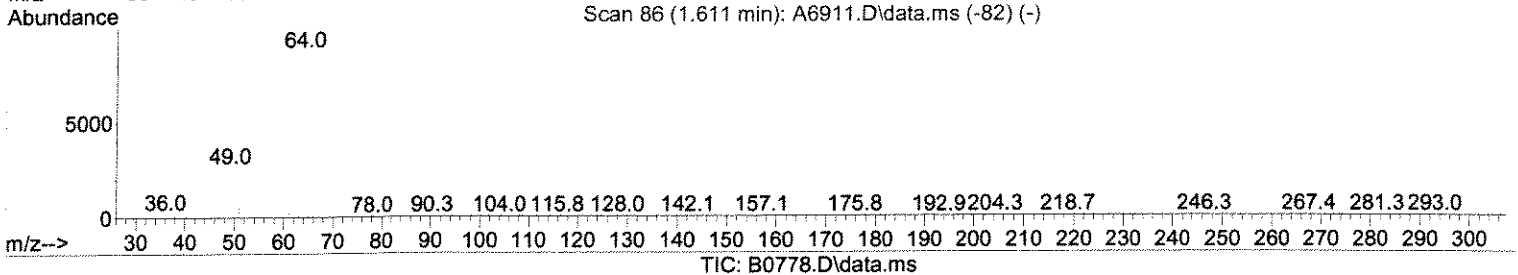
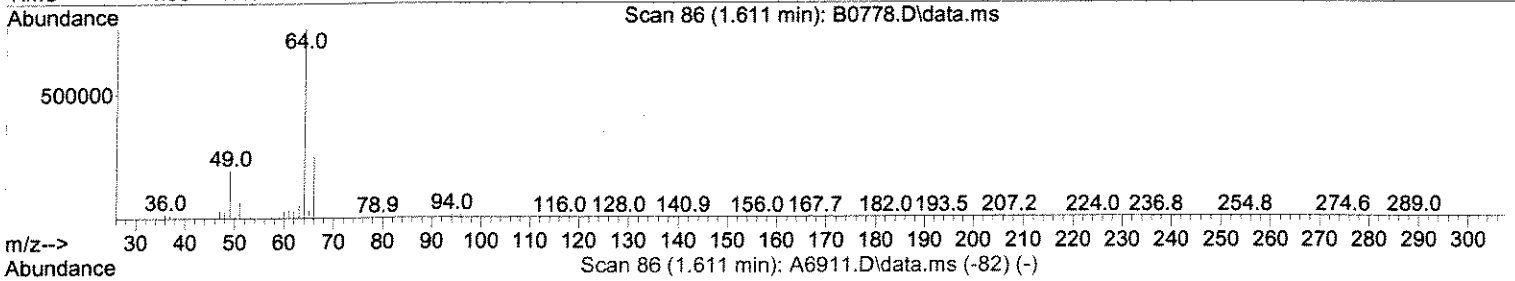
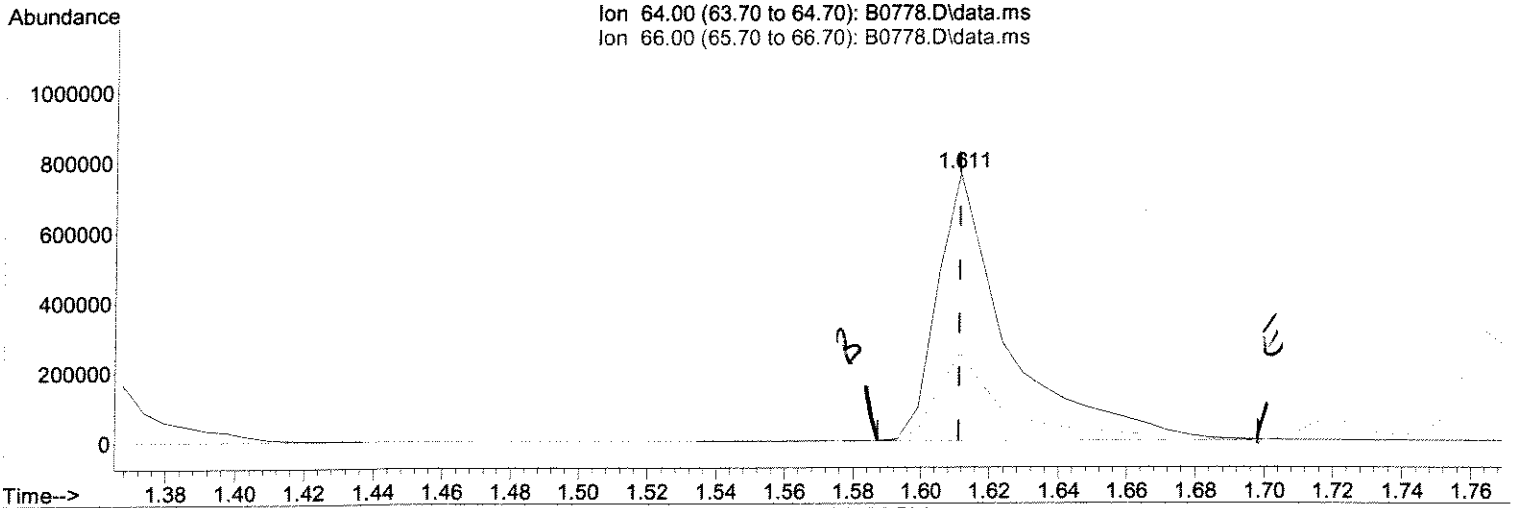
Quantitation Report (Qedit)

Sample : 200 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
 Acq On : 26 Jun 2008 5:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
6/30/08

Quant Time: Jun 30 08:42:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

A
027/09



(7) Chloroethane

1.611min (+0.000) 174.92 ug/L m

response 1088015

Ion	Exp%	Act%
64.00	100	100
66.00	32.30	32.55
0.00	0.00	0.00
0.00	0.00	0.00

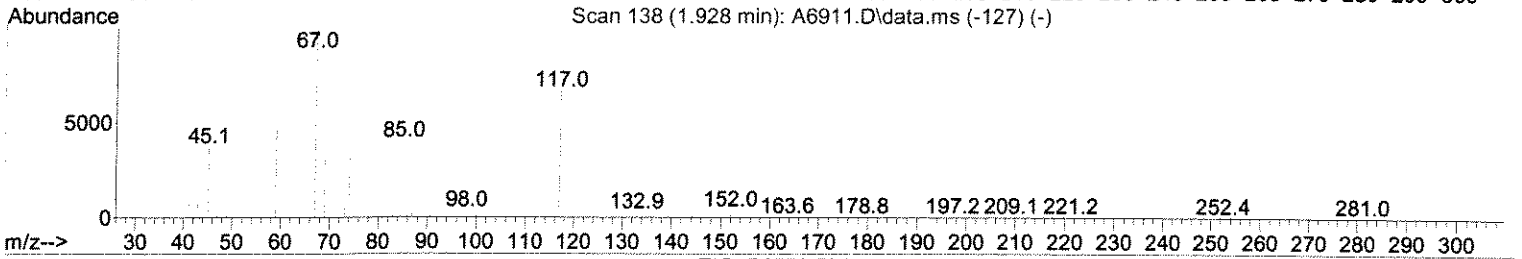
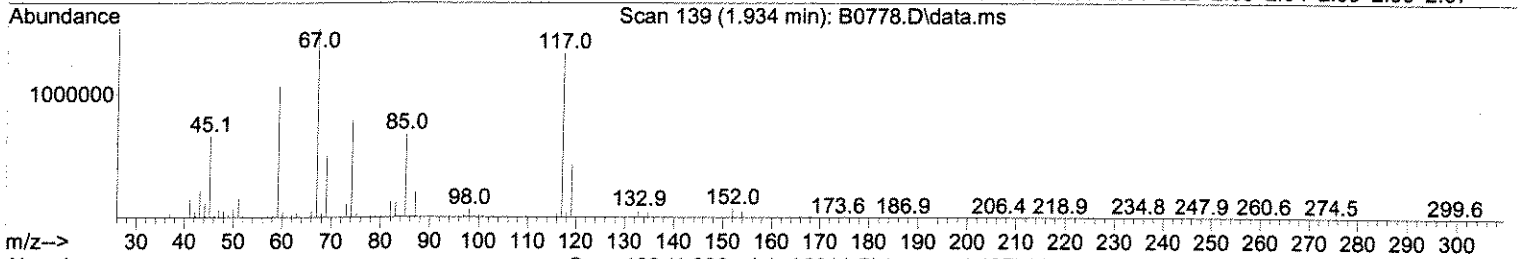
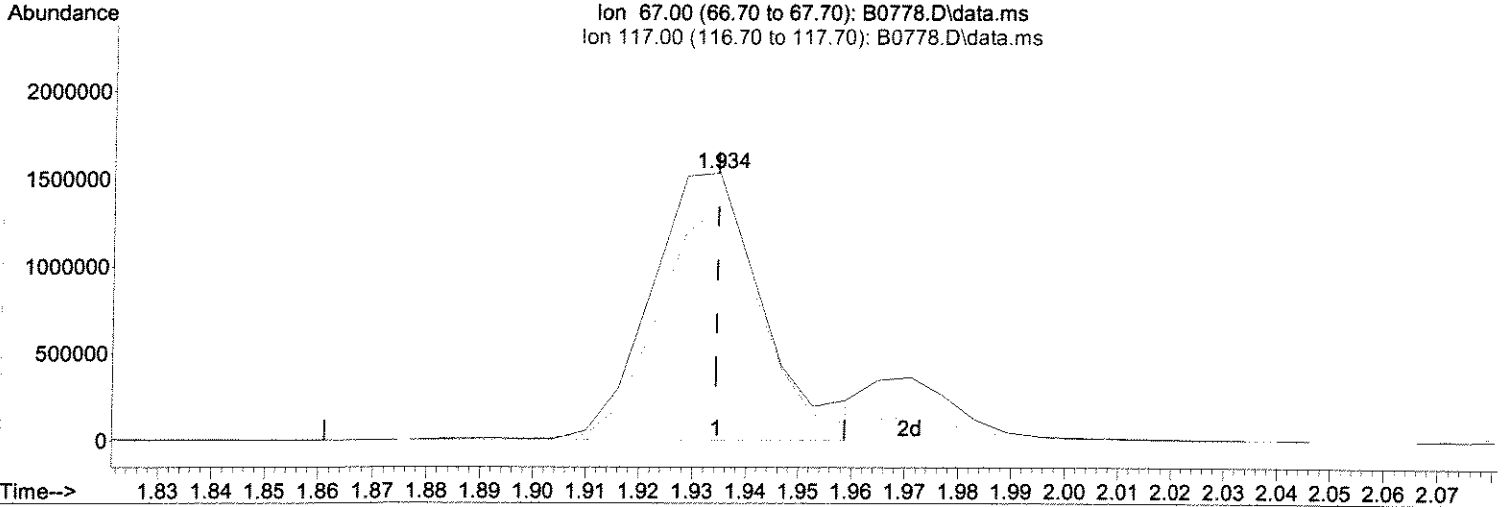
Quantitation Report (Qedit)

Sample : 200 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
 Acq On : 26 Jun 2008 5:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

*FJ
6/30/08*

Quant Time: Jun 30 08:42:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

B bad int



TIC: B0778.D\data.ms

(11) Freon 123a

1.934min (+0.000) 178.01 ug/L

response 2262338

Ion	Exp%	Act%
67.00	100	100
117.00	84.30	86.53
0.00	0.00	0.00
0.00	0.00	0.00

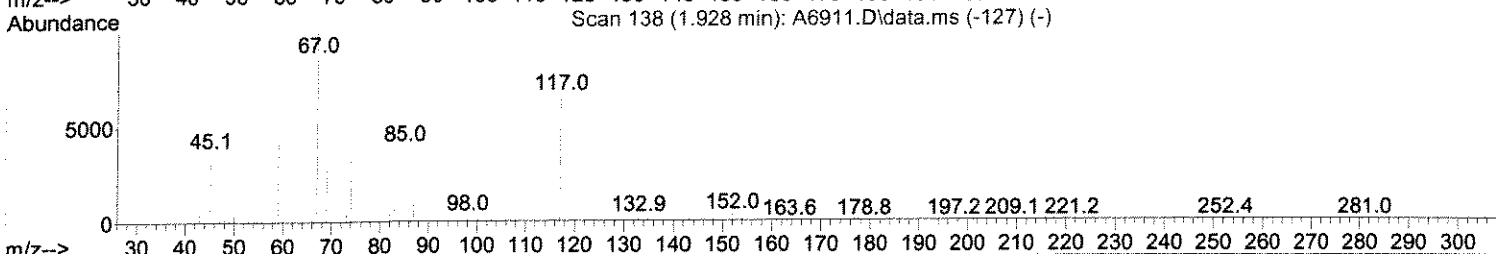
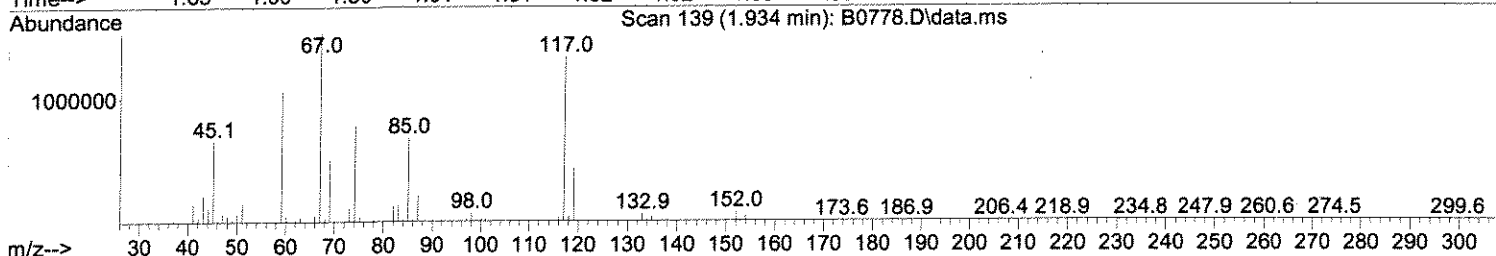
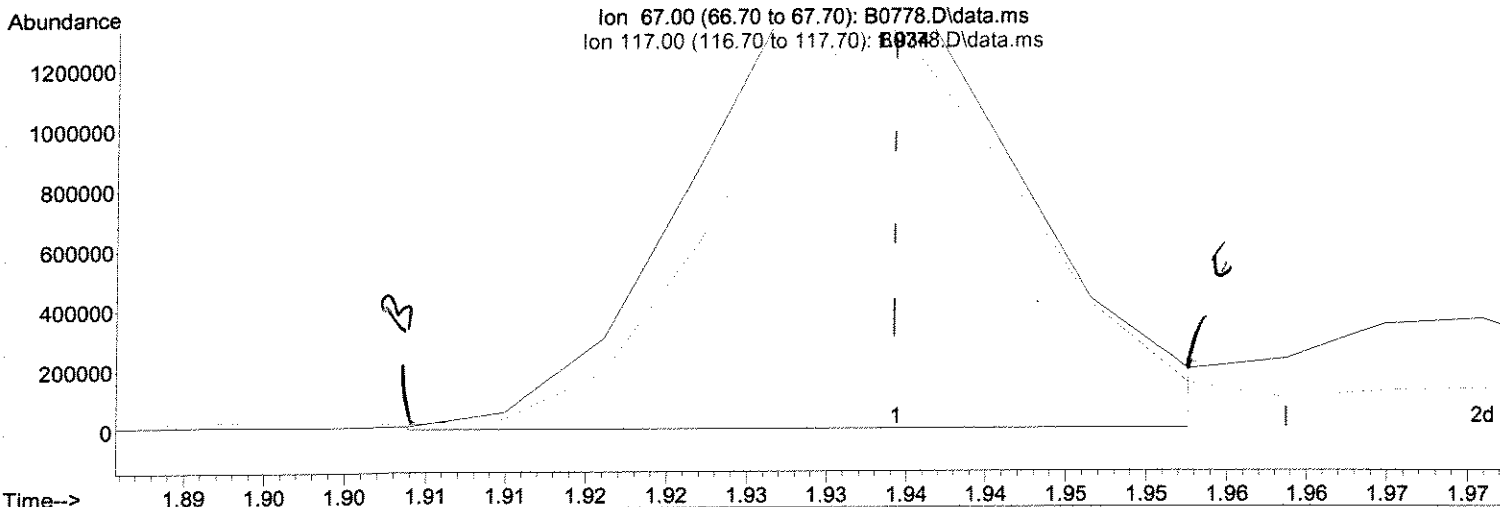
Quantitation Report (Qedit)

Sample : 200 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
 Acq On : 26 Jun 2008 5:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

*FW
6/30/08*

Quant Time: Jun 30 08:42:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

*A
P27/10*



TIC: B0778.D\data.ms

(11) Freon 123a

1.934min (+0.000) 170.34 ug/L m

response 2164815

Ion	Exp%	Act%
67.00	100	100
117.00	84.30	86.53
0.00	0.00	0.00
0.00	0.00	0.00

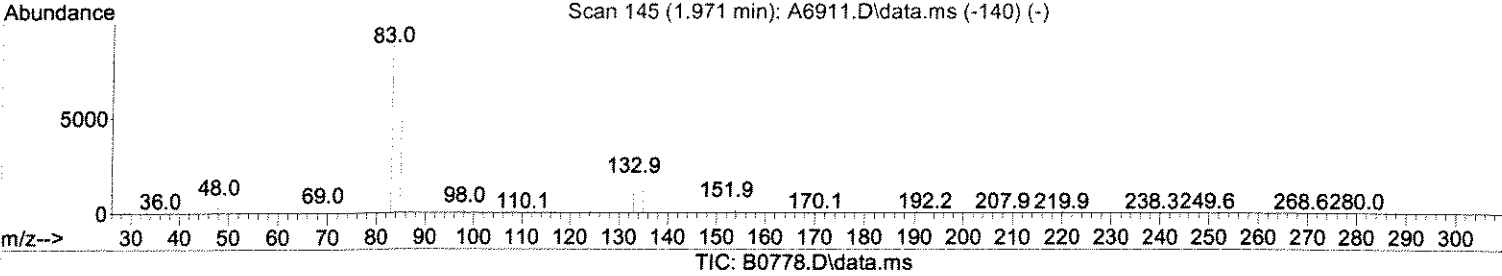
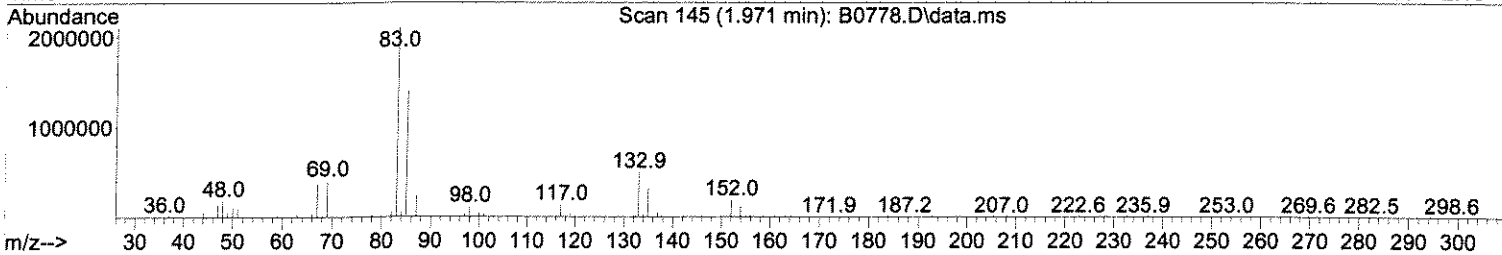
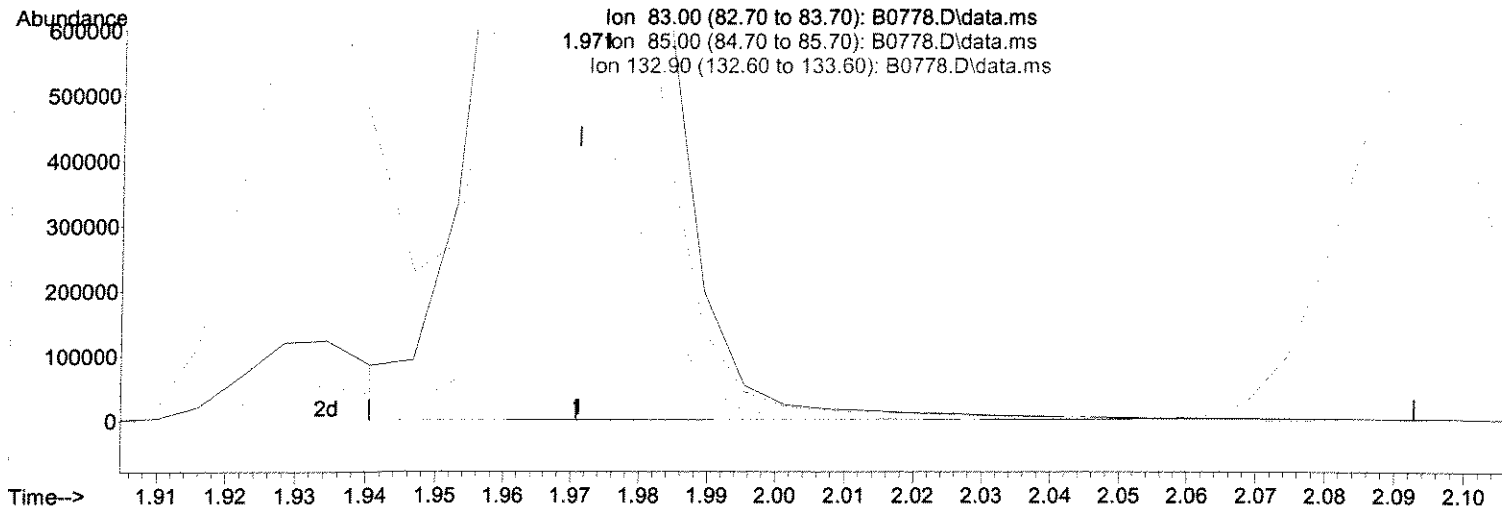
Quantitation Report (Qedit)

Sample : 200 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
 Acq On : 26 Jun 2008 5:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

*FU
6/31/08*

Quant Time: Jun 30 08:42:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

B before and int.



(12) Freon 123

1.971min (+0.000) 189.14 ug/L

response 2896732

Ion	Exp%	Act%
83.00	100	100
85.00	65.50	66.60
132.90	24.20	23.39
0.00	0.00	0.00

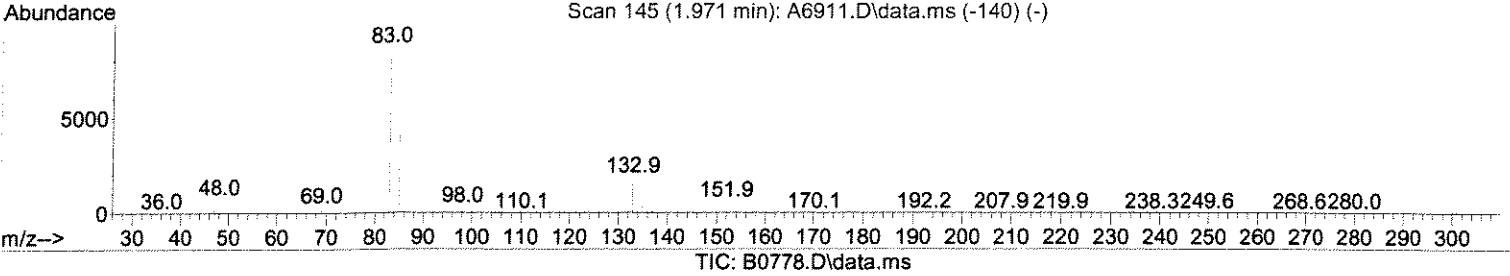
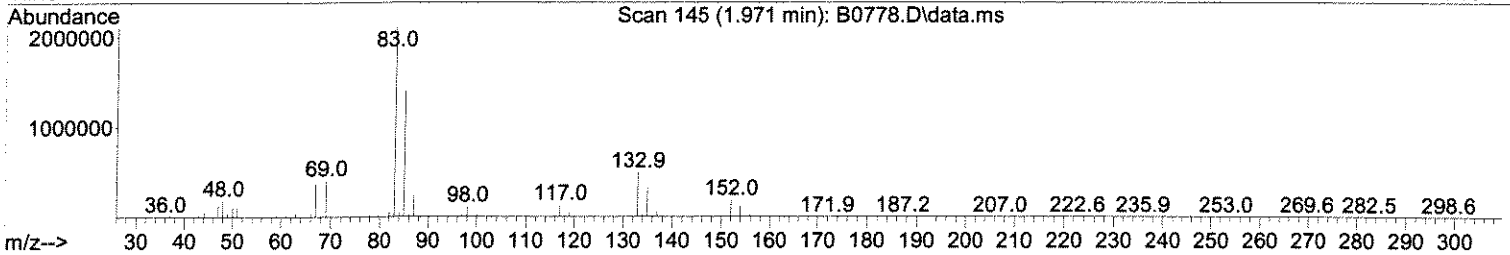
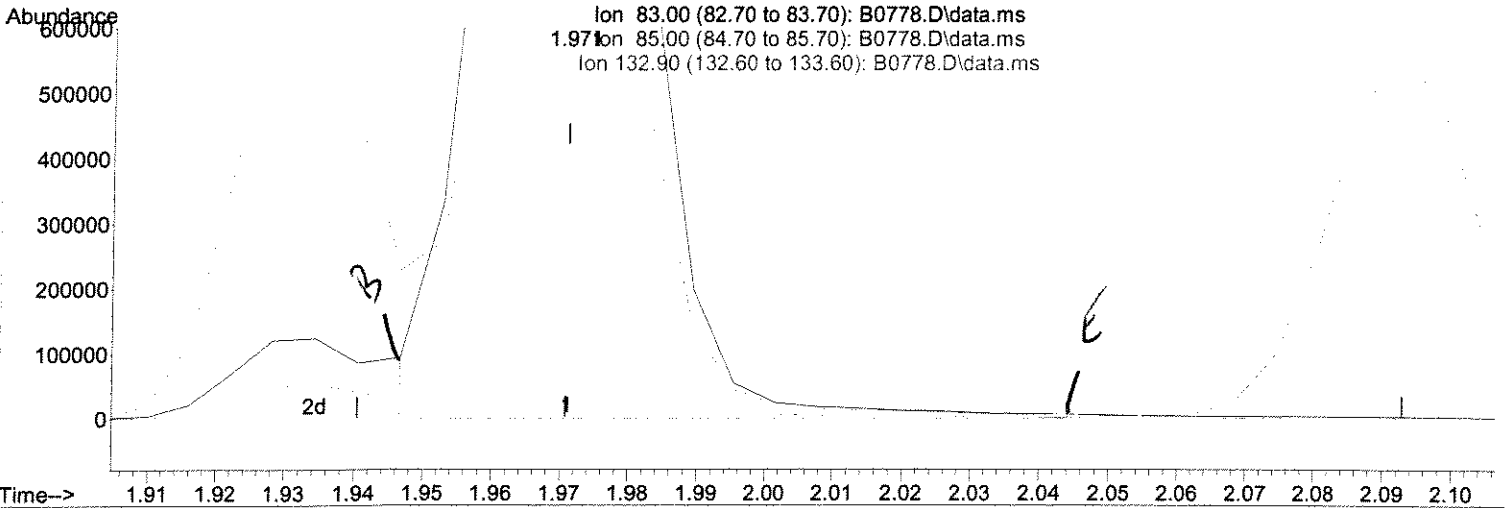
Quantitation Report (Qedit)

Sample : 200 PPB STD
 Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
 Acq On : 26 Jun 2008 5:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FJ
6/30/08

Quant Time: Jun 30 08:42:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

A
027/19



(12) Freon 123

1.971min(+0.000) 187.49 ug/L m

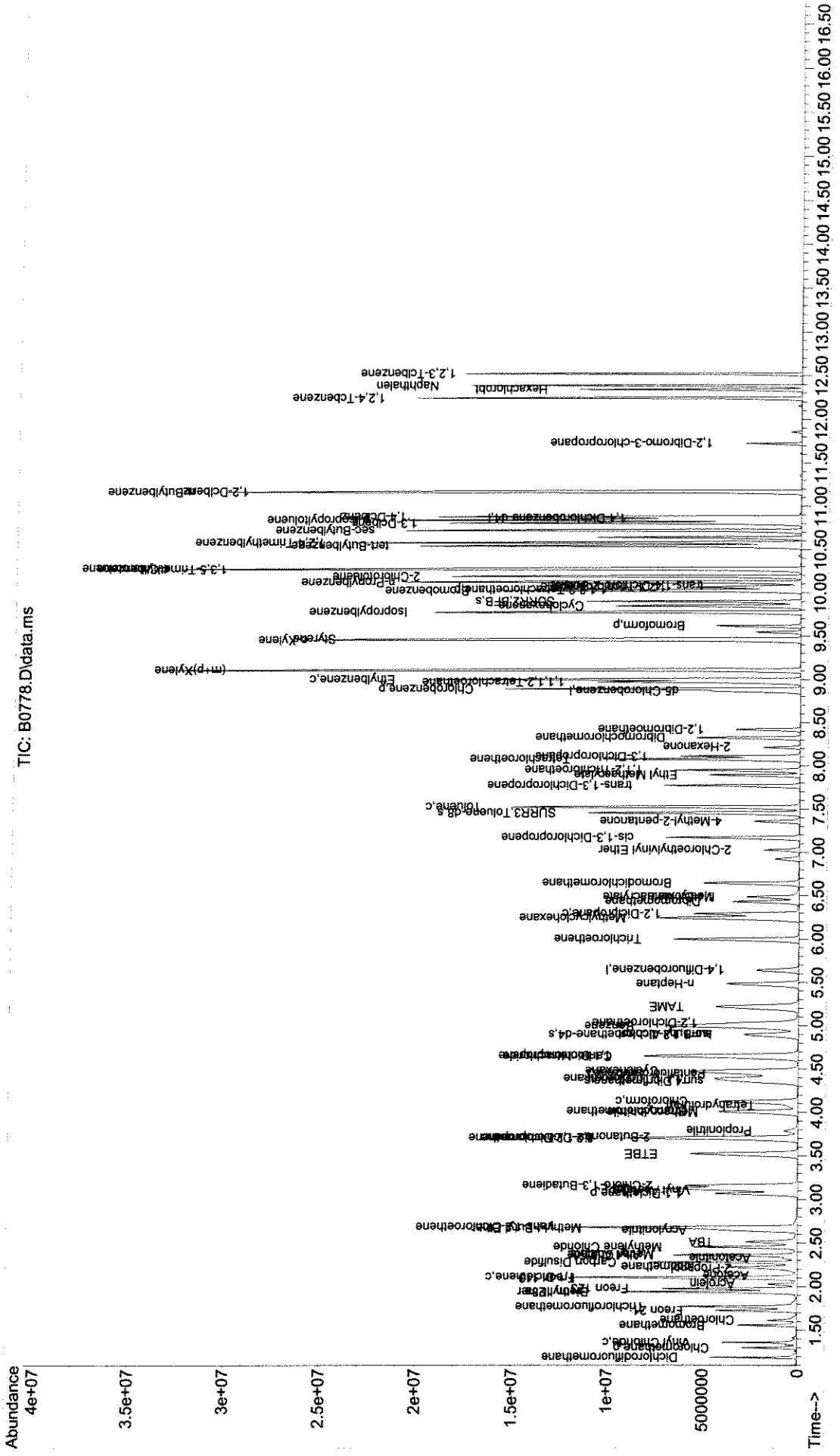
response 2871568

Ion	Exp%	Act%
83.00	100	100
85.00	65.50	66.60
132.90	24.20	23.39
0.00	0.00	0.00

Sample : 200 PPB STD
 Data File : J:\ACQDATA\msvoa10\data\062608\B0778.D Vial: 12
 Acq On : 26 Jun 2008 5:49 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jun 30 09:40:06 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 08:42:00 2008
 Response via : Initial Calibration

TIC: B0778.D\data.ms



00567

Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\063008\B0833.D Vial: 21
 Acq On : 1 Jul 2008 1:53 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FU
7/2/08

Quant Time: Jul 01 02:07:58 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	% Drift	% Dev	Area	% Dev (min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	112	0.00	
2	Dichlorodifluoromethane	0.400	0.403	-0.8	105	0.00	
3	Freon 114	0.000	0.000	0.0	105	0.00	
4 p	Chloromethane	0.371	0.398	-7.3	115	0.00	
5 c	Vinyl Chloride	0.383	0.416	-8.6	115	0.00	
6	Bromomethane	0.274	0.274	0.0	114	0.00	
7	Chloroethane	0.213	0.220	-3.3	117	0.00	
8	Freon 21	0.718	0.660	8.1	99	0.00	
9	Trichlorofluoromethane	0.670	0.668	0.3	108	0.00	
10	Diethyl Ether	0.226	0.240	-6.2	117	0.00	
11	Freon 123a	0.434	0.388	10.6	95	0.00	
12	Freon 123	0.524	0.480	8.4	99	0.00	
13	Acrolein	0.030	0.027	10.0	93	0.00	
14 c	1,1-Dicethene	0.337	0.369	-9.5	118	0.00	
15	Freon 113	0.360	0.376	-4.4	116	0.00	
16	Acetone	0.062	0.079	-27.4#	150	0.00	
17	2-Propanol	0.013	0.016	-23.1#	143	0.00	
18	Iodomethane	0.505	0.550	-8.9	105	0.00	
19	Carbon Disulfide	1.293	1.388	-7.3	116	0.00	
20	Acetonitrile	0.009	0.009	0.0	120	0.00	
21	Allyl Chloride	0.188	0.206	-9.6	117	0.00	
22	Methyl Acetate	0.180	0.213	-18.3	124	0.00	
23	Methylene Chloride	0.419	0.416	0.7	117	0.00	
24	TBA	0.021	0.024	-14.3	120	0.00	
25	Acrylonitrile	0.085	0.098	-15.3	119	0.00	
26	Methyl-t-Butyl Ether	0.854	0.973	-13.9	118	0.00	
27	trans-1,2-Dichloroethene	0.386	0.417	-8.0	119	0.00	
28 p	1,1-Dicethane	0.712	0.766	-7.6	119	0.00	
29	Vinyl Acetate	0.039	0.038	14.6	2.6 100	0.00	
30	DIPE	1.037	1.230	-18.6	120	0.00	
31	2-Chloro-1,3-Butadiene	0.552	0.629	-13.9	113	0.00	
32	ETBE	0.966	1.126	-16.6	118	0.00	
33	2,2-Dichloropropane	0.508	0.423	16.7	86	0.00	
34	cis-1,2-Dichloroethene	0.417	0.450	-7.9	117	0.00	
35	2-Butanone	0.103	0.116	-12.6	122	0.00	
36	Ethyl Acetate	0.000	0.000	0.0	122	0.00	
37	Propionitrile	0.032	0.037	-15.6	126	0.00	
38	Bromochloromethane	0.261	0.261	0.0	112	0.00	
39	Methacrylonitrile	0.089	0.105	-18.0	122	0.00	
40	Tetrahydrofuran	0.059	0.066	-11.9	124	0.00	
41 c	Chloroform	0.725	0.752	-3.7	114	0.00	
42	1,1,1-Trichloroethane	0.649	0.668	-2.9	112	0.00	
43	TAME	0.798	0.923	-15.7	118	0.00	
44 I	1,4-Difluorobenzene	1.000	1.000	0.0	115	0.00	
45	Cyclohexane	0.209	0.197	5.7	104	0.00	
46 s	surr4,Dibrflmethane	0.297	0.313	5.8	5.4 112	0.00	
47	Carbontetrachloride	0.124	0.122	1.6	111	0.00	

Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUADATA\msvoa10\data\063008\B0833.D Vial: 21
 Acq On : 1 Jul 2008 1:53 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 01 02:07:58 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FW 7/1/08

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	% Dev	Area	% Dev	(min)
48	1,1-Dichloropropene	0.354	0.373	-5.4	117	0.00
49 s	surr1,1,2-dichloroethane-d4	0.314	0.328	-4.5	112	0.00
50	Benzene	1.007	1.060	-5.3	119	0.00
51	1,2-Dichloroethane	0.348	0.343	1.4	112	0.00
52	Iso-Butyl Alcohol	0.006	0.007	-1.9	16.7	120 -0.01
53	n-Heptane	0.206	0.211	-2.4	108	0.00
54	Trichloroethene	0.277	0.281	-1.4	117	0.00
55	Methylcyclohexane	0.302	0.294	2.6	101	0.00
56 c	1,2-Diclp propane	0.251	0.277	-10.4	121	0.00
57	Dibromomethane	0.147	0.148	-0.7	114	0.00
58	1,4-Dioxane	0.002	0.002	0.0	108	0.00
59	Methyl Methacrylate	0.098	0.113	-0.3	15.3	116 0.00
60	Bromodichloromethane	0.361	0.365	-1.1	113	0.00
61	2-Nitropropane	0.000	0.000	0.0	113	0.00
62	2-Chloroethylvinyl Ether	0.074	0.101	-15.0	36.5	126 0.00
63	cis-1,3-Dichloropropene	0.377	0.404	-7.2	110	0.00
64	4-Methyl-2-pentanone	0.139	0.156	-12.2	120	0.00
65 s	SURR3,Toluene-d8	1.088	1.184	-8.8	116	0.00
66 c	Toluene	1.101	1.140	-3.5	117	0.00
67	trans-1,3-Dichloropropene	0.324	0.348	-7.4	108	0.00
68	Ethyl Methacrylate	0.191	0.236	-1.1	23.6	117 0.00
69	1,1,2-Trichloroethane	0.194	0.203	-4.6	114	0.00
70 s	SURR2,BFB	0.448	0.483	-7.8	115	0.00
71 I	d5-Chlorobenzene	1.000	1.000	0.0	115	0.00
72	Tetrachloroethene	0.249	0.245	1.6	111	0.00
73	2-Hexanone	0.110	0.118	-7.3	118	0.00
74	1,3-Dichloropropane	0.379	0.400	-5.5	116	0.00
75	Dibromochloromethane	0.286	0.295	-3.1	111	0.00
76	1,2-Dibromoethane	0.222	0.232	-4.5	113	0.00
77 p	Chlorobenzene	0.832	0.842	-1.2	115	0.00
78	1,1,1,2-Tetrachloroethane	0.297	0.304	-2.4	113	0.00
79 c	Ethylbenzene	0.420	0.446	-6.2	115	0.00
80	(m+p)Xylene	0.508	0.551	-8.5	115	0.00
81	o-Xylene	0.485	0.535	-10.3	115	0.00
82	Styrene	0.829	0.919	-10.9	114	0.00
83 p	Bromoform	0.175	0.182	-4.0	110	0.00
84	Isopropylbenzene	1.253	1.371	-9.4	113	0.00
85	Cyclohexanone	0.023	0.025	-8.7	118	0.00
86	trans-1,4-Dichloro-2-Butene	0.045	0.043	4.4	105	0.00
87 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
88 p	1,1,2,2-Tetrachloroethane	0.462	0.486	-5.2	112	0.00
89	Bromobenzene	0.638	0.650	-1.9	112	0.00
90	4-Ethyltoluene	0.000	0.000	0.0	114	0.00
91	1,2,3-Trichloropropane	0.138	0.138	0.0	109	0.00
92	n-Propylbenzene	2.763	3.075	-11.3	114	0.00
93	2-Chlorotoluene	1.730	1.854	-7.2	114	0.00

Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUADATA\msvoa10\data\063008\B0833.D Vial: 21
 Acq On : 1 Jul 2008 1:53 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 01 02:07:58 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FH
7/16/08

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Diff	%Dev	Area	% Dev(min)
94	4-Chlorotoluene	2.043	2.170	-6.2	113	0.00	
95	1,3,5-Trimethylbenzene	1.970	2.155	-9.4	111	0.00	
96	tert-Butylbenzene	1.613	1.787	-10.8	112	0.00	
97	1,2,4-Trimethylbenzene	2.037	2.257	-10.8	112	0.00	
98	sec-Butylbenzene	2.361	2.605	-10.3	112	0.00	
99	p-Isopropyltoluene	2.058	2.231	-8.4	111	0.00	
100	1,3-Dclbenz	1.259	1.279	-1.6	111	0.00	
101	1,4-Dclbenz	1.303	1.299	0.3	110	0.00	
102	Benzyl Chloride	0.000	0.000	0.0	55	0.06	
103	n-Butylbenzene	1.781	1.981	-11.2	111	0.00	
104	1,2-Dclbenz	1.186	1.205	-1.6	109	0.00	
105	1,2-Dibromo-3-chloropropane	0.101	0.104	-3.0	107	0.00	
106	Nitrobenzene	0.000	0.000	0.0	106	0.00	
107	1,2,4-Tcbenzene	0.809	0.858	-6.1	108	0.00	
108	Hexachlorobt	0.329	0.314	4.6	104	0.00	
109	Naphthalen	1.534	1.816	-2.6 -18.4	110	0.00	
110	1,2,3-Tclbenzene	0.741	0.785	-5.9	109	0.00	

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0833.D Vial: 21
 Acq On : 1 Jul 2008 1:53 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

*FW
7/1/08*

Quant Time: Jul 01 02:07:58 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.440	168	1441579	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2278521	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2074889	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1148817	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	712136	47.09	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	94.18%		
49) surr1,1,2-dichloroetha...	4.891	65	747019	52.16	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	104.32%		
65) SURR3,Toluene-d8	7.451	98	2698670	54.41	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.82%		
70) SURR2,BFB	9.896	95	1101362	53.92	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.84%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.184	85	580880	50.39	ug/L		99
4) Chloromethane	1.294	50	573754	53.60	ug/L		100
5) Vinyl Chloride	1.355	62	599862	54.30	ug/L		98
6) Bromomethane	1.556	94	395695	50.14	ug/L		98
7) Chloroethane	1.611	64	317077	51.61	ug/L		100
8) Freon 21	1.721	67	951992	45.99	ug/L		98
9) Trichlorofluoromethane	1.769	101	963376	49.86	ug/L		99
10) Diethyl Ether	1.934	59	345576	53.05	ug/L		98
11) Freon 123a	1.934	67	558647	44.68	ug/L		99
12) Freon 123	1.971	83	692566	45.81	ug/L		98
13) Acrolein	2.026	56	193328	225.82	ug/L		98
14) 1,1-Dicethene	2.105	96	532006	54.69	ug/L		97
15) Freon 113	2.093	101	542493	52.22	ug/L		98
16) Acetone	2.123	43	113540	63.83	ug/L		96
17) 2-Propanol	2.196	45	475086	1256.08	ug/L		99
18) Iodomethane	2.221	142	792235	54.37	ug/L		97
19) Carbon Disulfide	2.275	76	2000671	53.65	ug/L		99
20) Acetonitrile	2.324	40	67452	271.04	ug/L		91
21) Allyl Chloride	2.355	76	297127	54.80	ug/L		96
22) Methyl Acetate	2.361	43	307620	59.19	ug/L		100
23) Methylene Chloride	2.446	84	599292	49.64	ug/L		97
24) TBA	2.507	59	690635	1150.88	ug/L		98
25) Acrylonitrile	2.641	53	709453	289.32	ug/L		99
26) Methyl-t-Butyl Ether	2.666	73	1403190	56.96	ug/L		99
27) trans-1,2-Dichloroethene	2.678	96	600742	53.93	ug/L		100
28) 1,1-Dicethane	3.062	63	1103695	53.80	ug/L		99
29) Vinyl Acetate	3.105	86	54609	42.70	ug/L		58
30) DIPE	3.117	45	1772434	59.30	ug/L		96
31) 2-Chloro-1,3-Butadiene	3.153	53	907302	56.99	ug/L		99
32) ETBE	3.519	59	1623083	58.29	ug/L		99
33) 2,2-Dichloropropane	3.702	77	609407	41.58	ug/L		98
34) cis-1,2-Dichloroethene	3.702	96	648430	53.93	ug/L		97
35) 2-Butanone	3.714	43	167046	56.00	ug/L		99
37) Propionitrile	3.787	54	267220	289.71	ug/L		100
38) Bromochloromethane	4.007	130	376833	50.06	ug/L		92

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0833.D Vial: 21
 Acq On : 1 Jul 2008 1:53 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 01 02:07:58 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	151774	58.96	ug/L	99
40) Tetrahydrofuran	4.074	42	95395	55.69	ug/L	97
41) Chloroform	4.117	83	1083610	51.81	ug/L	99
42) 1,1,1-Trichloroethane	4.385	97	962509	51.46	ug/L	99
43) TAME	5.214	73	1329888	57.79	ug/L	99
45) Cyclohexane	4.470	41	448687	47.10	ug/L	99
47) Carbontetrachloride	4.641	121	279035	49.51	ug/L	95
48) 1,1-Dichloropropene	4.641	75	849052	52.59	ug/L	100
50) Benzene	4.988	78	2415984	52.63	ug/L	99
51) 1,2-Dichloroethane	5.025	62	782087	49.34	ug/L	98
52) Iso-Butyl Alcohol	4.885	43	297774	1018.96	ug/L	95
53) n-Heptane	5.476	43	480813	51.17	ug/L	98
54) Trichloroethene	5.994	130	640134	50.78	ug/L	98
55) Methylcyclohexane	6.238	55	669078	48.59	ug/L	99
56) 1,2-Diclpropane	6.287	63	630929	55.17	ug/L	99
57) Dibromomethane	6.427	93	337875	50.59	ug/L	97
58) 1,4-Dioxane	6.482	88	88806	972.52	ug/L	95
59) Methyl Methacrylate	6.482	69	258339	50.17	ug/L	96
60) Bromodichloromethane	6.640	83	831433	50.55	ug/L	99
62) 2-Chloroethylvinyl Ether	7.025	63	230325	57.50	ug/L	97
63) cis-1,3-Dichloropropene	7.165	75	920363	53.63	ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	355123	56.03	ug/L	99
66) Toluene	7.518	91	2598601	51.78	ug/L	100
67) trans-1,3-Dichloropropene	7.768	75	792842	53.66	ug/L	99
68) Ethyl Methacrylate	7.884	69	537954	50.55	ug/L	97
69) 1,1,2-Trichloroethane	7.945	97	463385	52.30	ug/L	99
72) Tetrachloroethene	8.073	164	507774	49.07	ug/L	99
73) 2-Hexanone	8.213	43	245109	53.51	ug/L	99
74) 1,3-Dichloropropane	8.104	76	829301	52.68	ug/L	99
75) Dibromochloromethane	8.323	129	613044	51.74	ug/L	98
76) 1,2-Dibromoethane	8.415	107	481202	52.31	ug/L	99
77) Chlorobenzene	8.884	112	1747235	50.62	ug/L	99
78) 1,1,1,2-Tetrachloroethane	8.963	131	629729	51.10	ug/L	98
79) Ethylbenzene	8.994	106	925459	53.13	ug/L	99
80) (m+p)Xylene	9.103	106	2285425	108.34	ug/L	100
81) o-Xylene	9.445	106	1109491	55.08	ug/L	99
82) Styrene	9.463	104	1907418	55.44	ug/L	99
83) Bromoform	9.616	173	377193	51.90	ug/L	97
84) Isopropylbenzene	9.768	105	2844606	54.71	ug/L	99
85) Cyclohexanone	9.841	55	1051564	1116.62	ug/L	98
86) trans-1,4-Dichloro-2-B...	10.073	53	88544	47.34	ug/L	96
88) 1,1,2,2-Tetrachloroethane	10.024	83	558292	52.63	ug/L	99
89) Bromobenzene	10.018	156	747059	50.93	ug/L	97
91) 1,2,3-Trichloropropane	10.054	110	158987	50.16	ug/L	94
92) n-Propylbenzene	10.115	91	3532227	55.64	ug/L	99
93) 2-Chlorotoluene	10.182	91	2130266	53.60	ug/L	99
94) 4-Chlorotoluene	10.274	91	2493164	53.12	ug/L	100
95) 1,3,5-Trimethylbenzene	10.262	105	2475147	54.68	ug/L	100
96) tert-Butylbenzene	10.530	119	2052638	55.38	ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	2593290	55.41	ug/L	100
98) sec-Butylbenzene	10.713	105	2992256	55.15	ug/L	99
99) p-Isopropyltoluene	10.829	119	2562897	54.21	ug/L	99

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0833.D Vial: 21
 Acq On : 1 Jul 2008 1:53 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 01 02:07:58 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	1468804	50.76	ug/L	100
101) 1,4-Dclbenz	10.871	146	1492871	49.87	ug/L	100
103) n-Butylbenzene	11.152	91	2276060	55.63	ug/L	99
104) 1,2-Dclbenz	11.164	146	1383937	50.79	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	119410	51.58	ug/L	92
107) 1,2,4-Tcbenzene	12.237	180	985904	53.02	ug/L	98
108) Hexachlorobt	12.334	225	360314	47.72	ug/L	98
109) Naphthalen	12.377	128	2086465	51.30	ug/L	99
110) 1,2,3-Tclbenzene	12.517	180	902121	52.96	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\070208\B0877.D Vial: 1
 Acq On : 2 Jul 2008 12:12 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 02 12:27:07 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

rw
7/7/08

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Diff	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000		0.0	108	0.00
2	Dichlorodifluoromethane	0.400	0.397		0.8	100	0.00
3	Freon 114	0.000	0.000		0.0	100	0.00
4 p	Chloromethane	0.371	0.394		-6.2	111	0.00
5 c	Vinyl Chloride	0.383	0.393		-2.6	105	0.00
6	Bromomethane	0.274	0.285		-4.0	114	0.00
7	Chloroethane	0.213	0.224		-5.2	115	0.00
8	Freon 21	0.718	0.780		-8.6	113	0.00
9	Trichlorofluoromethane	0.670	0.686		-2.4	107	0.00
10	Diethyl Ether	0.226	0.234		-3.5	111	0.00
11	Freon 123a	0.434	0.469		-8.1	111	0.00
12	Freon 123	0.524	0.575		-9.7	115	0.00
13	Acrolein	0.030	0.029		3.3	96	0.00
14 c	1,1-Dicethene	0.337	0.357		-5.9	110	0.00
15	Freon 113	0.360	0.382		-6.1	113	0.00
16	Acetone	0.062	0.060		3.2	111	0.00
17	2-Propanol	0.013	0.014		-7.7	114	0.00
18	Iodomethane	0.505	0.561		-11.1	103	0.00
19	Carbon Disulfide	1.293	1.417		-9.6	114	0.00
20	Acetonitrile	0.009	0.010		-11.1	126	0.00
21	Allyl Chloride	0.188	0.205		-9.0	112	0.00
22	Methyl Acetate	0.180	0.204		-13.3	115	0.00
23	Methylene Chloride	0.419	0.421		-0.5	115	0.00
24	TBA	0.021	0.020		4.8	98	0.00
25	Acrylonitrile	0.085	0.094		-10.6	111	0.00
26	Methyl-t-Butyl Ether	0.854	0.910		-6.6	106	0.00
27	trans-1,2-Dichloroethene	0.386	0.417		-8.0	115	0.00
28 p	1,1-Dicethane	0.712	0.766		-7.6	115	0.00
29	Vinyl Acetate	0.039	0.039	12.5	0.0	99	0.00
30	DIPE	1.037	1.249		-20.4#	118	0.00
31	2-Chloro-1,3-Butadiene	0.552	0.647		-17.2	112	0.00
32	ETBE	0.966	1.084		-12.2	110	0.00
33	2,2-Dichloropropane	0.508	0.573		-12.8	113	0.00
34	cis-1,2-Dichloroethene	0.417	0.454		-8.9	114	0.00
35	2-Butanone	0.103	0.108		-4.9	110	0.00
36	Ethyl Acetate	0.000	0.000		0.0	110	0.00
37	Propionitrile	0.032	0.034		-6.3	113	0.00
38	Bromochloromethane	0.261	0.261		0.0	108	0.00
39	Methacrylonitrile	0.089	0.100		-12.4	112	0.00
40	Tetrahydrofuran	0.059	0.063		-6.8	115	0.00
41 c	Chloroform	0.725	0.762		-5.1	112	0.00
42	1,1,1-Trichloroethane	0.649	0.662		-2.0	107	0.00
43	TAME	0.798	0.862		-8.0	106	0.00
44 I	1,4-Difluorobenzene	1.000	1.000		0.0	112	0.00
45	Cyclohexane	0.209	0.235		-12.4	121	0.00
46 s	surr4,Dibrflmethane	0.297	0.312	5.9	-5.1	109	0.00
47	Carbontetrachloride	0.124	0.122		1.6	108	0.00

Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\070208\B0877.D Vial: 1
 Acq On : 2 Jul 2008 12:12 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 02 12:27:07 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

*FW
7/7/08*

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Diff	%Dev	Area	Dev(min)
48	1,1-Dichloropropene	0.354	0.372	-5.1	113	0.00
49 s	surrl,1,2-dichloroethane-d4	0.314	0.317	-1.0	105	0.00
50	Benzene	1.007	1.063	-5.6	116	0.00
51	1,2-Dichloroethane	0.348	0.340	2.3	108	0.00
52	Iso-Butyl Alcohol	0.006	0.005	15.4	16.7 95	-0.02
53	n-Heptane	0.206	0.251	-21.8#	125	0.00
54	Trichloroethene	0.277	0.277	0.0	112	0.00
55	Methylcyclohexane	0.302	0.359	-18.9	120	0.00
56 c	1,2-Diclpropane	0.251	0.278	-10.8	118	0.00
57	Dibromomethane	0.147	0.147	0.0	110	0.00
58	1,4-Dioxane	0.002	0.002	0.0	95 85	0.00
59	Methyl Methacrylate	0.098	0.105	7.1	7.1 105	0.00
60	Bromodichloromethane	0.361	0.364	-0.8	110	0.00
61	2-Nitropropane	0.000	0.000	0.0	103	0.00
62	2-Chloroethylvinyl Ether	0.074	0.103	-17.5	39.2# 126	0.00
63	cis-1,3-Dichloropropene	0.377	0.422	-11.9	112	0.00
64	4-Methyl-2-pentanone	0.139	0.143	-2.9	107	0.00
65 s	SURR3,Toluene-d8	1.088	1.187	-9.1	113	0.00
66 c	Toluene	1.101	1.142	-3.7	114	0.00
67	trans-1,3-Dichloropropene	0.324	0.361	-11.4	109	0.00
68	Ethyl Methacrylate	0.191	0.218	6.4	14.1 105	0.00
69	1,1,2-Trichloroethane	0.194	0.198	-2.1	109	0.00
70 s	SURR2,BFB	0.448	0.494	-10.3	114	0.00
71 I	d5-Chlorobenzene	1.000	1.000	0.0	113	0.00
72	Tetrachloroethene	0.249	0.243	2.4	109	0.00
73	2-Hexanone	0.110	0.106	3.6	104	0.00
74	1,3-Dichloropropene	0.379	0.389	-2.6	110	0.00
75	Dibromochloromethane	0.286	0.287	-0.3	105	0.00
76	1,2-Dibromoethane	0.222	0.223	-0.5	107	0.00
77 p	Chlorobenzene	0.832	0.843	-1.3	113	0.00
78	1,1,1,2-Tetrachloroethane	0.297	0.301	-1.3	110	0.00
79 c	Ethylbenzene	0.420	0.448	-6.7	113	0.00
80	(m+p)Xylene	0.508	0.556	-9.4	114	0.00
81	o-Xylene	0.485	0.539	-11.1	113	0.00
82	Styrene	0.829	0.923	-11.3	113	0.00
83 p	Bromoform	0.175	0.174	0.6	103	0.00
84	Isopropylbenzene	1.253	1.377	-9.9	112	0.00
85	Cyclohexanone	0.023	0.028	-21.7#	127	0.00
86	trans-1,4-Dichloro-2-Butene	0.045	0.045	0.0	108	0.00
87 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
88 p	1,1,2,2-Tetrachloroethane	0.462	0.468	-1.3	108	0.00
89	Bromobenzene	0.638	0.641	-0.5	110	0.00
90	4-Ethyltoluene	0.000	0.000	0.0	113	0.00
91	1,2,3-Trichloropropane	0.138	0.131	5.1	102	0.00
92	n-Propylbenzene	2.763	3.106	-12.4	115	0.00
93	2-Chlorotoluene	1.730	1.846	-6.7	113	0.00

Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\070208\B0877.D Vial: 1
 Acq On : 2 Jul 2008 12:12 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 02 12:27:07 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Fw
7/7/08

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Diff	%Dev	Area%	Dev(min)
94	4-Chlorotoluene	2.043	2.184	-6.9	113	0.00
95	1,3,5-Trimethylbenzene	1.970	2.158	-9.5	111	0.00
96	tert-Butylbenzene	1.613	1.769	-9.7	110	0.00
97	1,2,4-Trimethylbenzene	2.037	2.251	-10.5	112	0.00
98	sec-Butylbenzene	2.361	2.595	-9.9	111	0.00
99	p-Isopropyltoluene	2.058	2.246	-9.1	111	0.00
100	1,3-Dclbenz	1.259	1.272	-1.0	110	0.00
101	1,4-Dclbenz	1.303	1.285	1.4	109	0.00
102	Benzyl Chloride	0.000	0.000	0.0	64	0.00
103	n-Butylbenzene	1.781	2.025	-13.7	113	0.00
104	1,2-Dclbenz	1.186	1.196	-0.8	108	0.00
105	1,2-Dibromo-3-chloropropane	0.101	0.094	6.9	96	0.00
106	Nitrobenzene	0.000	0.000	0.0	105	0.00
107	1,2,4-Tcbenzene	0.809	0.834	-3.1	105	0.00
108	Hexachlorobt	0.329	0.328	0.3	108	0.00
109	Naphthalen	1.534	1.655	<i>6.4</i> -7.9	100	0.00
110	1,2,3-Tclbenzene	0.741	0.745	-0.5	103	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\070208\B0877.D Vial: 1
 Acq On : 2 Jul 2008 12:12 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
7/7/08

Quant Time: Jul 02 12:27:07 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1392839	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2218333	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.854	117	2036296	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1143845	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	692719	47.04	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	94.08%		
49) surr1,1,2-dichloroetha...	4.885	65	702914	50.41	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	100.82%		
65) SURR3,Toluene-d8	7.445	98	2632135	54.51	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.02%		
70) SURR2,BFB	9.896	95	1095679	55.10	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	110.20%		
Target Compounds							
2) Dichlorodifluoromethane	1.184	85	552726	49.63	ug/L	99	Qvalue
4) Chloromethane	1.294	50	549051	53.09	ug/L	99	
5) Vinyl Chloride	1.355	62	546760	51.22	ug/L	98	
6) Bromomethane	1.556	94	396756	52.03	ug/L	98	
7) Chloroethane	1.611	64	312191	52.59	ug/L	97	
8) Freon 21	1.721	67	1086403	54.32	ug/L	100	
9) Trichlorofluoromethane	1.763	101	955225	51.17	ug/L	99	
10) Diethyl Ether	1.934	59	326302	51.84	ug/L	100	
11) Freon 123a	1.928	67	652637	54.03	ug/L	92	
12) Freon 123	1.971	83	801178	54.85	ug/L	99	
13) Acrolein	2.026	56	198908	240.47	ug/L	98	
14) 1,1-Dicethene	2.099	96	496671	52.85	ug/L	95	
15) Freon 113	2.093	101	531508	52.96	ug/L	98	
16) Acetone	2.123	43	84218	49.00	ug/L	95	
17) 2-Propanol	2.196	45	378246	1035.04	ug/L	98	
18) Iodomethane	2.215	142	781254	55.49	ug/L	99	
19) Carbon Disulfide	2.276	76	1973966	54.79	ug/L	99	
20) Acetonitrile	2.324	40	70638	293.78	ug/L	95	
21) Allyl Chloride	2.355	76	284906	54.39	ug/L	95	
22) Methyl Acetate	2.355	43	284334	56.62	ug/L	100	
23) Methylene Chloride	2.446	84	586668	50.29	ug/L	99	
24) TBA	2.507	59	563447	971.79	ug/L	97	
25) Acrylonitrile	2.635	53	658048	277.74	ug/L	99	
26) Methyl-t-Butyl Ether	2.666	73	1267795	53.26	ug/L	98	
27) trans-1,2-Dichloroethene	2.678	96	580922	53.98	ug/L	99	
28) 1,1-Dicethane	3.062	63	1067352	53.85	ug/L	99	
29) Vinyl Acetate	3.099	86	54133	43.75	ug/L	81	
30) DIPE	3.117	45	1740347	60.26	ug/L	95	
31) 2-Chloro-1,3-Butadiene	3.153	53	901325	58.59	ug/L	98	
32) ETBE	3.513	59	1509577	56.11	ug/L	99	
33) 2,2-Dichloropropane	3.696	77	798127	56.37	ug/L	98	
34) cis-1,2-Dichloroethene	3.696	96	632184	54.42	ug/L	96	
35) 2-Butanone	3.708	43	150045	52.06	ug/L	99	
37) Propionitrile	3.787	54	238932	268.10	ug/L	95	
38) Bromochloromethane	4.007	130	364165	50.07	ug/L	94	

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\070208\B0877.D Vial: 1
 Acq On : 2 Jul 2008 12:12 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 02 12:27:07 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.989	67	139028	55.90	ug/L	97
40) Tetrahydrofuran	4.074	42	88106	53.24	ug/L	94
41) Chloroform	4.117	83	1061513	52.53	ug/L	99
42) 1,1,1-Trichloroethane	4.385	97	921800	51.01	ug/L	98
43) TAME	5.208	73	1200793	54.01	ug/L	99
45) Cyclohexane	4.464	41	521039	56.17	ug/L	96
47) Carbontetrachloride	4.641	121	271510	49.48	ug/L	95
48) 1,1-Dichloropropene	4.641	75	824590	52.47	ug/L	96
50) Benzene	4.988	78	2358811	52.77	ug/L	99
51) 1,2-Dichloroethane	5.019	62	753889	48.85	ug/L	97
52) Iso-Butyl Alcohol	4.879	43	237609	846.49	ug/L	97
53) n-Heptane	5.476	43	555760	60.75	ug/L	95
54) Trichloroethene	5.988	130	614321	50.06	ug/L	98
55) Methylcyclohexane	6.232	55	795371	59.32	ug/L	98
56) 1,2-Diclpropane	6.281	63	616212	55.35	ug/L	99
57) Dibromomethane	6.427	93	325911	50.12	ug/L	99
58) 1,4-Dioxane	6.476	88	7831270088 ^{360.87} 788.36	46.44	ug/L	91
59) Methyl Methacrylate	6.482	69	232237	46.44	ug/L	97
60) Bromodichloromethane	6.641	83	807860	50.45	ug/L	99
62) 2-Chloroethylvinyl Ether	7.025	63	229188	58.77	ug/L	100
63) cis-1,3-Dichloropropene	7.165	75	936336	56.04	ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	316522	51.30	ug/L	99
66) Toluene	7.518	91	2534295	51.87	ug/L	100
67) trans-1,3-Dichloropropene	7.762	75	800104	55.62	ug/L	98
68) Ethyl Methacrylate	7.884	69	483757	46.81	ug/L	97
69) 1,1,2-Trichloroethane	7.945	97	440173	51.03	ug/L	99
72) Tetrachloroethene	8.073	164	495398	48.78	ug/L	98
73) 2-Hexanone	8.213	43	216123	48.08	ug/L	99
74) 1,3-Dichloropropane	8.104	76	792765	51.31	ug/L	99
75) Dibromochloromethane	8.317	129	583898	50.21	ug/L	99
76) 1,2-Dibromoethane	8.415	107	453505	50.23	ug/L	100
77) Chlorobenzene	8.884	112	1716313	50.67	ug/L	99
78) 1,1,1,2-Tetrachloroethane	8.963	131	613349	50.72	ug/L	99
79) Ethylbenzene	8.994	106	911517	53.32	ug/L	98
80) (m+p)Xylene	9.097	106	2264712	109.40	ug/L	96
81) o-Xylene	9.445	106	1098036	55.54	ug/L	99
82) Styrene	9.457	104	1880008	55.68	ug/L	96
83) Bromoform	9.616	173	353589	49.57	ug/L	100
84) Isopropylbenzene	9.768	105	2804637	54.96	ug/L	100
85) Cyclohexanone	9.841	55	1133161	1226.07	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.073	53	90642	49.38	ug/L	98
88) 1,1,2,2-Tetrachloroethane	10.024	83	535626	50.71	ug/L	99
89) Bromobenzene	10.018	156	733725	50.24	ug/L	99
91) 1,2,3-Trichloropropane	10.055	110	149301	47.31	ug/L	98
92) n-Propylbenzene	10.115	91	3553094	56.21	ug/L	99
93) 2-Chlorotoluene	10.183	91	2111901	53.37	ug/L	100
94) 4-Chlorotoluene	10.274	91	2498611	53.47	ug/L	99
95) 1,3,5-Trimethylbenzene	10.262	105	2468899	54.78	ug/L	100
96) tert-Butylbenzene	10.530	119	2023552	54.84	ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	2574358	55.24	ug/L	100
98) sec-Butylbenzene	10.713	105	2967972	54.94	ug/L	99
99) p-Isopropyltoluene	10.829	119	2569097	54.58	ug/L	99

FJ
7/7/08



Sample : CCV
Data File : J:\ACQUDATA\MSVOA10\DATA\070208\B0877.D Vial: 1
Acq On : 2 Jul 2008 12:12 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 02 12:27:07 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	1454563	50.48	ug/L	99
101) 1,4-Dclbenz	10.871	146	1469732	49.31	ug/L	100
103) n-Butylbenzene	11.152	91	2316153	56.86	ug/L	99
104) 1,2-Dclbenz	11.164	146	1368246	50.43	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	106956	46.40	ug/L	97
107) 1,2,4-Tcbenzene	12.237	180	954500	51.55	ug/L	98
108) Hexachlorobt	12.335	225	374692	49.84	ug/L	98
109) Naphthalen	12.377	128	1893429	46.80	ug/L	99
110) 1,2,3-Tclbenzene	12.517	180	851670	50.22	ug/L	95

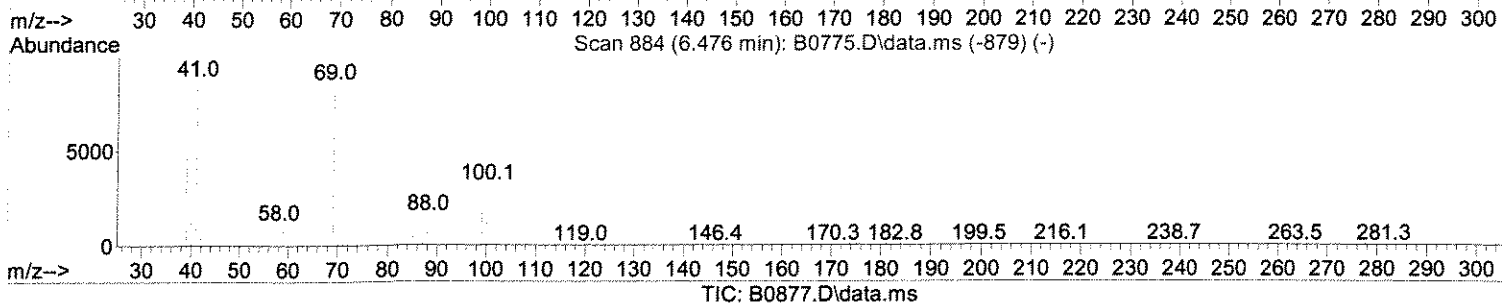
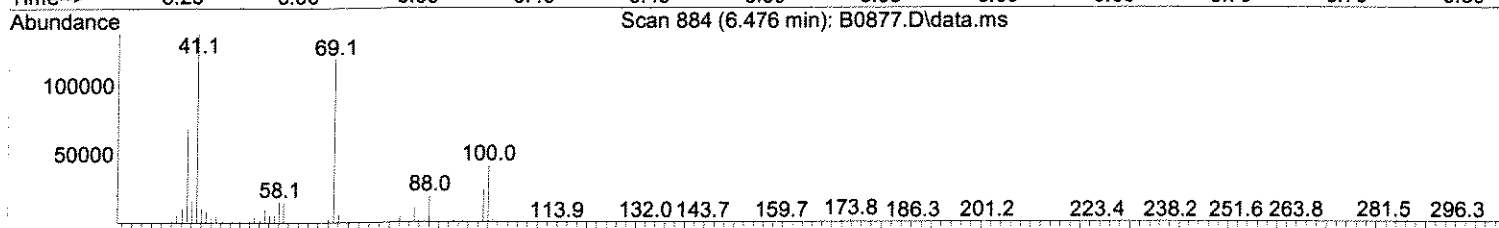
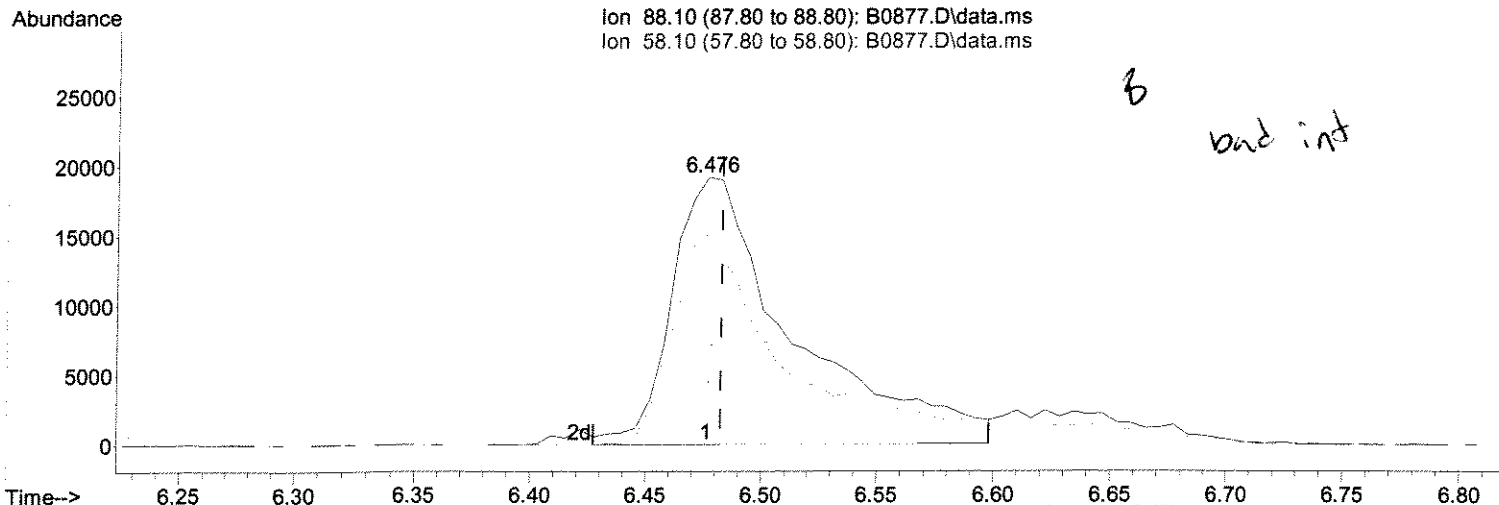
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Sample : CCV
Data File : J:\ACQUDATA\msvoa10\data\070208\B0877.D Vial: 1
Acq On : 2 Jul 2008 12:12 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 02 12:27:07 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

*FU
7/7/08*



(58) 1,4-Dioxane
6.476min (-0.006) 788.36 ug/L
response 70088

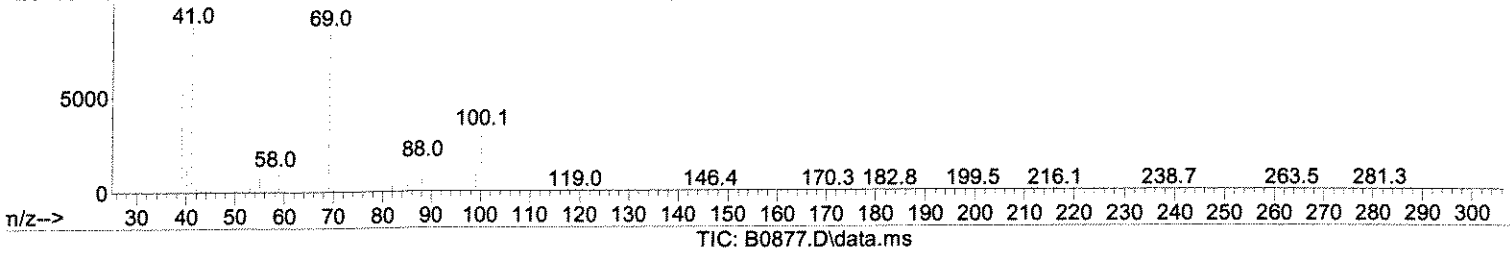
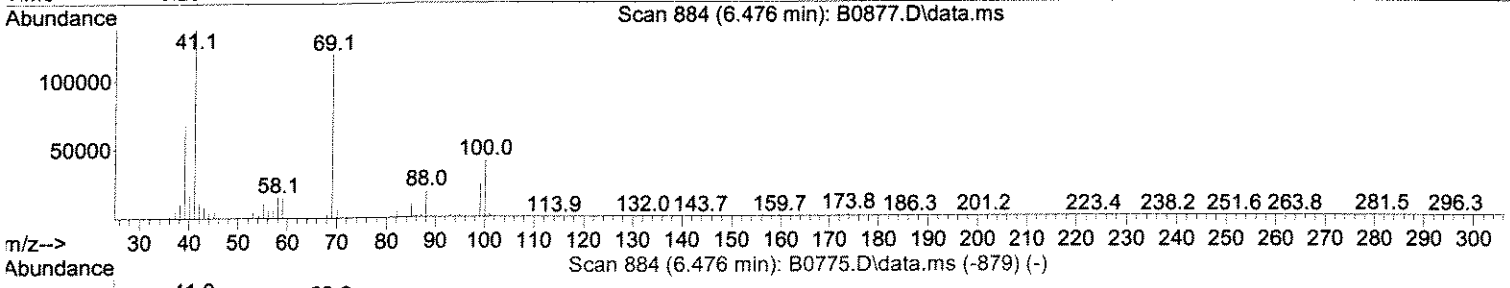
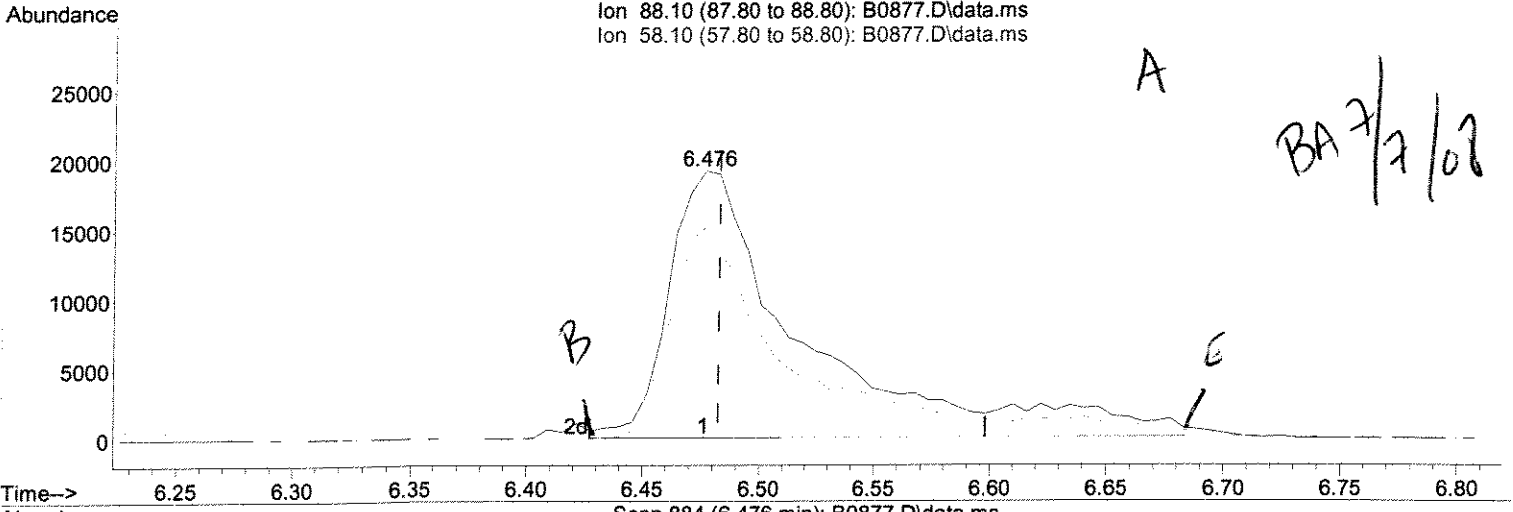
Ion	Exp%	Act%
88.10	100	100
58.10	71.80	78.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\070208\B0877.D Vial: 1
 Acq On : 2 Jul 2008 12:12 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FN
7/7/08

Quant Time: Jul 02 12:27:07 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration



(58) 1,4-Dioxane
 6.476min (-0.006) 880.87 ug/L m
 response 78312

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	78.94
0.00	0.00	0.00
0.00	0.00	0.00



Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUADATA\msvoa10\data\070308\B0900.D Vial: 1
 Acq On : 3 Jul 2008 11:07 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 03 11:21:43 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FW
7/3/08

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	% Diff	Area	% Dev	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	107	0.00	
2	Dichlorodifluoromethane	0.400	0.376	6.0	94	0.00	
3	Freon 114	0.000	0.000	0.0	94	0.00	
4 p	Chloromethane	0.371	0.412	-11.1	115	0.00	
5 c	Vinyl Chloride	0.383	0.416	-8.6	110	0.00	
6	Bromomethane	0.274	0.268	2.2	107	0.00	
7	Chloroethane	0.213	0.228	-7.0	116	0.00	
8	Freon 21	0.718	0.782	-8.9	112	0.00	
9	Trichlorofluoromethane	0.670	0.667	0.4	104	0.00	
10	Diethyl Ether	0.226	0.238	-5.3	112	0.00	
11	Freon 123a	0.434	0.475	-9.4	112	0.00	
12	Freon 123	0.524	0.566	-8.0	113	0.00	
13	Acrolein	0.030	0.030	0.0	100	0.00	
14 c	1,1-Dicethene	0.337	0.348	-3.3	107	0.00	
15	Freon 113	0.360	0.372	-3.3	110	0.00	
16	Acetone	0.062	0.068	-9.7	124	0.00	
17	2-Propanol	0.013	0.015	-15.4	124	0.00	
18	Iodomethane	0.505	0.593	-17.4	109	0.00	
19	Carbon Disulfide	1.293	1.462	-13.1	117	0.00	
20	Acetonitrile	0.009	0.011	-22.2#	135	0.00	
21	Allyl Chloride	0.188	0.207	-10.1	112	0.00	
22	Methyl Acetate	0.180	0.224	-24.4#	125	0.00	
23	Methylene Chloride	0.419	0.410	2.1	111	0.00	
24	TBA	0.021	0.021	0.0	100	0.00	
25	Acrylonitrile	0.085	0.098	-15.3	114	0.00	
26	Methyl-t-Butyl Ether	0.854	0.901	-5.5	105	0.00	
27	trans-1,2-Dichloroethene	0.386	0.411	-6.5	112	0.00	
28 p	1,1-Dicethane	0.712	0.758	-6.5	113	0.00	
29	Vinyl Acetate	0.039	0.041	<i>7.6</i> -5.1	105	0.00	
30	DIPE	1.037	1.320	-27.3#	124	0.00	①
31	2-Chloro-1,3-Butadiene	0.552	0.668	-21.0#	115	0.00	
32	ETBE	0.966	1.117	-15.6	113	0.00	
33	2,2-Dichloropropane	0.508	0.553	-8.9	108	0.00	
34	cis-1,2-Dichloroethene	0.417	0.438	-5.0	110	0.00	
35	2-Butanone	0.103	0.114	-10.7	116	0.00	
36	Ethyl Acetate	0.000	0.000	0.0	116	0.00	
37	Propionitrile	0.032	0.036	-12.5	119	0.00	
38	Bromochloromethane	0.261	0.252	3.4	104	0.00	
39	Methacrylonitrile	0.089	0.100	-12.4	111	0.00	
40	Tetrahydrofuran	0.059	0.069	-16.9	124	0.00	
41 c	Chloroform	0.725	0.739	-1.9	108	0.00	
42	1,1,1-Trichloroethane	0.649	0.646	0.5	104	0.00	
43	TAME	0.798	0.875	-9.6	107	0.00	
44 I	1,4-Difluorobenzene	1.000	1.000	0.0	114	0.00	
45	Cyclohexane	0.209	0.234	-12.0	122	0.00	
46 s	surr4,Dibrflmethane	0.297	0.314	<i>5.2</i> -5.7	112	0.00	
47	Carbontetrachloride	0.124	0.115	7.3	103	0.00	

Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\070308\B0900.D Vial: 1
 Acq On : 3 Jul 2008 11:07 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 03 11:21:43 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Diff	Area	%Dev	Dev(min)
48	1,1-Dichloropropene	0.354	0.358	-1.1	111	0.00
49 s	surri,1,2-dichloroethane-d4	0.314	0.321	-2.2	108	0.00
50	Benzene	1.007	1.027	-2.0	114	0.00
51	1,2-Dichloroethane	0.348	0.324	6.9	105	0.00
52	Iso-Butyl Alcohol	0.006	0.006	8.3	0.0 106	-0.01
53	n-Heptane	0.206	0.247	-19.9	125	0.00
54	Trichloroethene	0.277	0.259	6.5	106	0.00
55	Methylcyclohexane	0.302	0.350	-15.9	119	0.00
56 c	1,2-Diclp propane	0.251	0.272	-8.4	117	0.00
57	Dibromomethane	0.147	0.138	6.1	106	0.00
58	1,4-Dioxane	0.002	0.002	0.0	97	0.00
59	Methyl Methacrylate	0.098	0.104	8.1	6.1 105	0.00
60	Bromodichloromethane	0.361	0.349	3.3	107	0.00
61	2-Nitropropane	0.000	0.000	0.0	104	0.00
62	2-Chloroethylvinyl Ether	0.074	0.105	-19.1	41.9# 130	0.00
63	cis-1,3-Dichloropropene	0.377	0.406	-7.7	110	0.00
64	4-Methyl-2-pentanone	0.139	0.148	-6.5	112	0.00
65 s	SURR3,Toluene-d8	1.088	1.206	-10.8	117	0.00
66 c	Toluene	1.101	1.091	0.9	111	0.00
67	trans-1,3-Dichloropropene	0.324	0.341	-5.2	105	0.00
68	Ethyl Methacrylate	0.191	0.214	8.0	12.0 105	0.00
69	1,1,2-Trichloroethane	0.194	0.190	2.1	106	0.00
70 s	SURR2,BFB	0.448	0.498	-11.2	117	0.00
71 I	d5-Chlorobenzene	1.000	1.000	0.0	116	0.00
72	Tetrachloroethene	0.249	0.227	8.8	104	0.00
73	2-Hexanone	0.110	0.111	-0.9	111	0.00
74	1,3-Dichloropropane	0.379	0.374	1.3	109	0.00
75	Dibromochloromethane	0.286	0.268	6.3	101	0.00
76	1,2-Dibromoethane	0.222	0.211	5.0	103	0.00
77 p	Chlorobenzene	0.832	0.798	4.1	109	0.00
78	1,1,1,2-Tetrachloroethane	0.297	0.283	4.7	105	0.00
79 c	Ethylbenzene	0.420	0.418	0.5	108	0.00
80	(m+p)Xylene	0.508	0.522	-2.8	110	0.00
81	o-Xylene	0.485	0.507	-4.5	109	0.00
82	Styrene	0.829	0.870	-4.9	109	0.00
83 p	Bromoform	0.175	0.160	8.6	97	0.00
84	Isopropylbenzene	1.253	1.292	-3.1	107	0.00
85	Cyclohexanone	0.023	0.018	21.7#	86	0.00
86	trans-1,4-Dichloro-2-Butene	0.045	0.043	4.4	107	0.00
87 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
88 p	1,1,2,2-Tetrachloroethane	0.462	0.458	0.9	107	0.00
89	Bromobenzene	0.638	0.595	6.7	104	0.00
90	4-Ethyltoluene	0.000	0.000	0.0	107	0.00
91	1,2,3-Trichloropropane	0.138	0.124	10.1	98	0.00
92	n-Propylbenzene	2.763	2.933	-6.2	110	0.00
93	2-Chlorotoluene	1.730	1.747	-1.0	109	0.00

Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\070308\B0900.D Vial: 1
 Acq On : 3 Jul 2008 11:07 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 03 11:21:43 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	9.0 %Dev	%Dev	Area	Dev(min)
94	4-Chlorotoluene	2.043	2.060	-0.8	108	0.00	
95	1,3,5-Trimethylbenzene	1.970	2.027	-2.9	106	0.00	
96	tert-Butylbenzene	1.613	1.680	-4.2	106	0.00	
97	1,2,4-Trimethylbenzene	2.037	2.125	-4.3	107	0.00	
98	sec-Butylbenzene	2.361	2.467	-4.5	107	0.00	
99	p-Isopropyltoluene	2.058	2.133	-3.6	107	0.00	
100	1,3-Dclbenz	1.259	1.197	4.9	105	0.00	
101	1,4-Dclbenz	1.303	1.212	7.0	104	0.00	
102	Benzyl Chloride	0.000	0.000	0.0	89	-0.01	
103	n-Butylbenzene	1.781	1.941	-9.0	110	0.00	
104	1,2-Dclbenz	1.186	1.123	5.3	103	0.00	
105	1,2-Dibromo-3-chloropropane	0.101	0.091	9.9	94	0.00	
106	Nitrobenzene	0.000	0.000	0.0	109	0.00	
107	1,2,4-Tcbenzene	0.809	0.781	3.5	100	0.00	
108	Hexachlorobt	0.329	0.300	8.8	101	0.00	
109	Naphthalen	1.534	1.580	10.6 3.0	97	0.00	
110	1,2,3-Tclbenzene	0.741	0.697	5.9	98	0.00	

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0900.D Vial: 1
 Acq On : 3 Jul 2008 11:07 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FR 7/3/08

Quant Time: Jul 03 11:21:43 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1385353	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2255758	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2081989	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1161731	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	708592	47.41	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	94.82%		
49) surr1,1,2-dichloroetha...	4.891	65	724508	51.10	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	102.20%		
65) SURR3,Toluene-d8	7.445	98	2721567	55.43	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	110.86%		
70) SURR2,BFB	9.896	95	1123251	55.55	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	111.10%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.184	85	520842	47.02	ug/L		99
4) Chloromethane	1.294	50	570727	55.48	ug/L		99
5) Vinyl Chloride	1.355	62	576284	54.28	ug/L		100
6) Bromomethane	1.556	94	371351	48.97	ug/L		99
7) Chloroethane	1.611	64	315776	53.48	ug/L		99
8) Freon 21	1.721	67	1083180	54.45	ug/L		100
9) Trichlorofluoromethane	1.764	101	923425	49.73	ug/L		98
10) Diethyl Ether	1.934	59	329947	52.70	ug/L		97
11) Freon 123a	1.928	67	658454	54.80	ug/L		88
12) Freon 123	1.971	83	784727	54.01	ug/L		100
13) Acrolein	2.026	56	207943	252.75	ug/L		100
14) 1,1-Dicethene	2.105	96	481544	51.52	ug/L		99
15) Freon 113	2.093	101	516007	51.69	ug/L		94
16) Acetone	2.123	43	93757	54.85	ug/L		94
17) 2-Propanol	2.196	45	411815	1132.99	ug/L		100
18) Iodomethane	2.221	142	821246	58.65	ug/L		96
19) Carbon Disulfide	2.276	76	2025735	56.53	ug/L		99
20) Acetonitrile	2.325	40	76019	317.86	ug/L		93
21) Allyl Chloride	2.355	76	286097	54.91	ug/L		91
22) Methyl Acetate	2.355	43	310262	62.12	ug/L		96
23) Methylene Chloride	2.446	84	568101	48.96	ug/L		96
24) TBA	2.507	59	576720	1000.06	ug/L		96
25) Acrylonitrile	2.642	53	680810	288.90	ug/L		99
26) Methyl-t-Butyl Ether	2.666	73	1248082	52.72	ug/L		97
27) trans-1,2-Dichloroethene	2.678	96	569433	53.20	ug/L		99
28) 1,1-Dicethane	3.062	63	1049867	53.25	ug/L		99
29) Vinyl Acetate	3.099	86	57033	46.20	ug/L		75
30) DIPE	3.117	45	1829275	63.68	ug/L		94
31) 2-Chloro-1,3-Butadiene	3.154	53	925119	60.47	ug/L		97
32) ETBE	3.519	59	1548103	57.85	ug/L		98
33) 2,2-Dichloropropane	3.702	77	766283	54.41	ug/L		99
34) cis-1,2-Dichloroethene	3.696	96	607197	52.55	ug/L		91
35) 2-Butanone	3.708	43	157887	55.08	ug/L		99
37) Propionitrile	3.788	54	251016	283.19	ug/L		96
38) Bromochloromethane	4.007	130	349742	48.34	ug/L		90

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0900.D Vial: 1
 Acq On : 3 Jul 2008 11:07 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 03 11:21:43 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.989	67	137954	55.77	ug/L	96
40) Tetrahydrofuran	4.074	42	95141	57.80	ug/L	98
41) Chloroform	4.117	83	1023815	50.94	ug/L	99
42) 1,1,1-Trichloroethane	4.385	97	894544	49.77	ug/L	98
43) TAME	5.208	73	1211832	54.80	ug/L	99
45) Cyclohexane	4.470	41	528843	56.07	ug/L	95
47) Carbontetrachloride	4.641	121	258787	46.38	ug/L	89
48) 1,1-Dichloropropene	4.641	75	806461	50.46	ug/L	98
50) Benzene	4.989	78	2317187	50.98	ug/L	99
51) 1,2-Dichloroethane	5.025	62	730579	46.56	ug/L	96
52) Iso-Butyl Alcohol	4.885	43	263357	916.99	ug/L	91
53) n-Heptane	5.476	43	556437	59.81	ug/L	95
54) Trichloroethene	5.988	130	583818	46.78	ug/L	98
55) Methylcyclohexane	6.238	55	788700	57.85	ug/L	97
56) 1,2-Diclpropane	6.281	63	613835	54.22	ug/L	99
57) Dibromomethane	6.427	93	312071	47.20	ug/L	98
58) 1,4-Dioxane	6.476	88	79954	884.42	ug/L	92
59) Methyl Methacrylate	6.482	69	233697	45.97	ug/L	97
60) Bromodichloromethane	6.641	83	787619	48.37	ug/L	99
62) 2-Chloroethylvinyl Ether	7.025	63	236155	59.55	ug/L	99
63) cis-1,3-Dichloropropene	7.165	75	915092	53.86	ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	333715	53.19	ug/L	98
66) Toluene	7.519	91	2461708	49.55	ug/L	100
67) trans-1,3-Dichloropropene	7.762	75	770275	52.66	ug/L	98
68) Ethyl Methacrylate	7.884	69	482994	45.99	ug/L	96
69) 1,1,2-Trichloroethane	7.945	97	428181	48.82	ug/L	99
72) Tetrachloroethene	8.073	164	472159	45.47	ug/L	98
73) 2-Hexanone	8.214	43	231886	50.45	ug/L	99
74) 1,3-Dichloropropene	8.104	76	779604	49.35	ug/L	97
75) Dibromochloromethane	8.317	129	558741	46.99	ug/L	99
76) 1,2-Dibromoethane	8.415	107	439586	47.62	ug/L	99
77) Chlorobenzene	8.884	112	1660857	47.95	ug/L	99
78) 1,1,1,2-Tetrachloroethane	8.963	131	588993	47.63	ug/L	98
79) Ethylbenzene	8.994	106	870903	49.83	ug/L	98
80) (m+p)Xylene	9.098	106	2172788	102.65	ug/L	97
81) o-Xylene	9.445	106	1056538	52.27	ug/L	99
82) Styrene	9.463	104	1811964	52.48	ug/L	98
83) Bromoform	9.616	173	332873	45.65	ug/L	99
84) Isopropylbenzene	9.768	105	2690424	51.56	ug/L	99
85) Cyclohexanone	9.841	55	767077	811.76	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.073	53	90537	48.24	ug/L	99
88) 1,1,2,2-Tetrachloroethane	10.024	83	531957	49.59	ug/L	99
89) Bromobenzene	10.018	156	690852	46.58	ug/L	94
91) 1,2,3-Trichloropropene	10.055	110	144159	44.97	ug/L	95
92) n-Propylbenzene	10.116	91	3407848	53.08	ug/L	99
93) 2-Chlorotoluene	10.183	91	2028997	50.49	ug/L	99
94) 4-Chlorotoluene	10.274	91	2393240	50.42	ug/L	100
95) 1,3,5-Trimethylbenzene	10.262	105	2354997	51.44	ug/L	99
96) tert-Butylbenzene	10.530	119	1952239	52.09	ug/L	99
97) 1,2,4-Trimethylbenzene	10.573	105	2468798	52.16	ug/L	100
98) sec-Butylbenzene	10.713	105	2866215	52.24	ug/L	98
99) p-Isopropyltoluene	10.829	119	2477491	51.82	ug/L	99

Sample : CCV
Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0900.D Vial: 1
Acq On : 3 Jul 2008 11:07 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

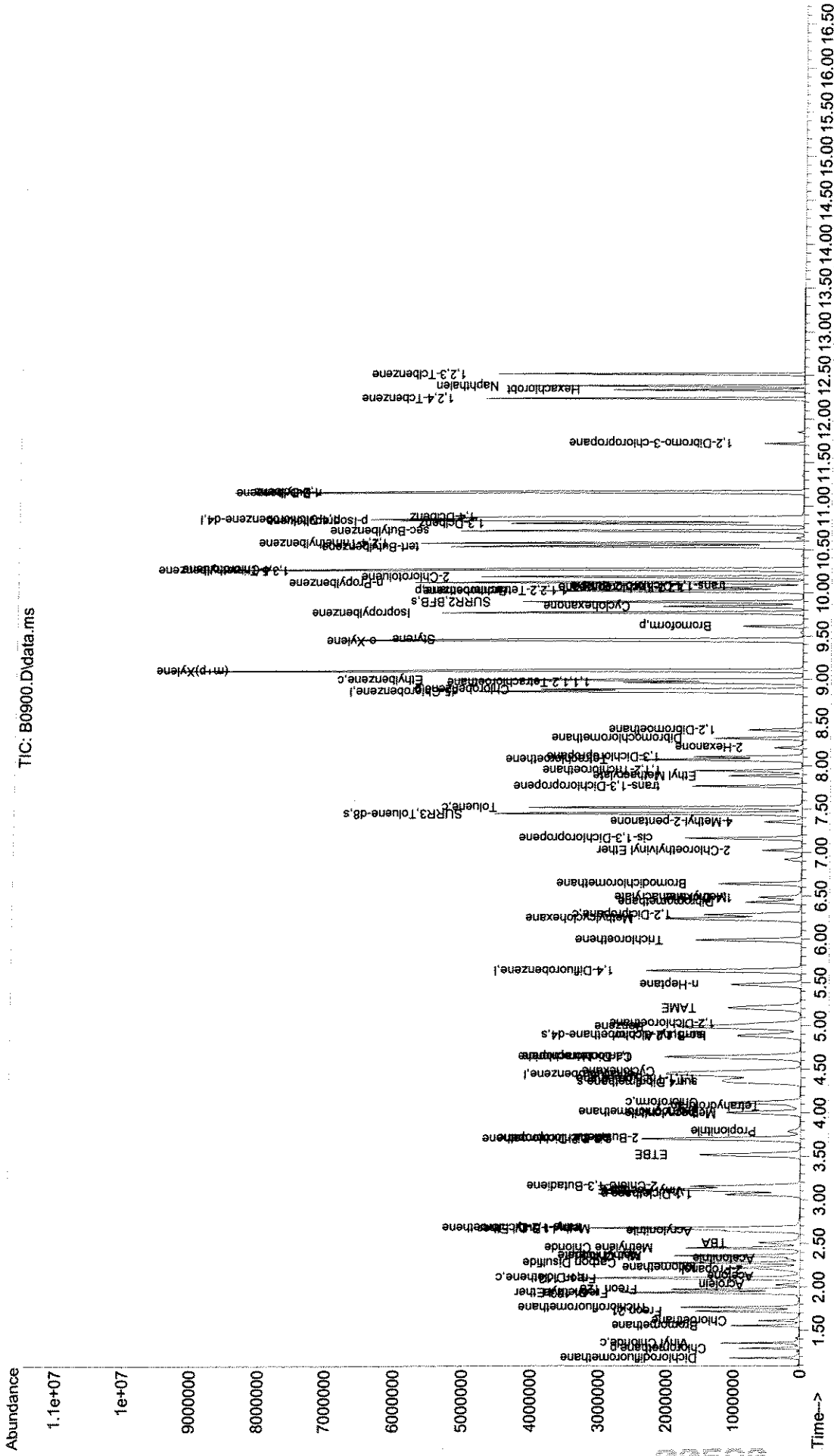
Quant Time: Jul 03 11:21:43 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	1390128	47.50	ug/L	99
101) 1,4-Dclbenz	10.872	146	1407659	46.50	ug/L	100
103) n-Butylbenzene	11.152	91	2254408	54.49	ug/L	99
104) 1,2-Dclbenz	11.164	146	1304510	47.35	ug/L	100
105) 1,2-Dibromo-3-chloropr...	11.719	157	105225	44.94	ug/L	95
107) 1,2,4-Tcbenzene	12.237	180	906921	48.23	ug/L	98
108) Hexachlorobt	12.335	225	348633	45.66	ug/L	99
109) Naphthalen	12.377	128	1836051	44.71	ug/L	100
110) 1,2,3-Tclbenzene	12.512	180	809973	47.03	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : CCV
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0900.D Vial: 1
 Acq On : 3 Jul 2008 11:07 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 03 11:21:43 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 Quant Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\070908\B0996.D Vial: 1
 Acq On : 9 Jul 2008 11:13 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
 7/9/08

Quant Time: Jul 09 11:28:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	% Diff	% Dev	Area	Dev (min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	112	0.00	
2	Dichlorodifluoromethane	0.400	0.363	9.3	95	0.00	
3	Freon 114	0.000	0.000	0.0	95	0.00	
4 p	Chloromethane	0.371	0.420	-13.2	122	0.00	
5 c	Vinyl Chloride	0.383	0.410	-7.0	113	0.00	
6	Bromomethane	0.274	0.275	-0.4	114	0.00	
7	Chloroethane	0.213	0.235	-10.3	125	0.00	
8	Freon 21	0.718	0.748	-4.2	112	0.00	
9	Trichlorofluoromethane	0.670	0.667	0.4	108	0.00	
10	Diethyl Ether	0.226	0.242	-7.1	119	0.00	
11	Freon 123a	0.434	0.459	-5.8	113	0.00	
12	Freon 123	0.524	0.559	-6.7	116	0.00	
13	Acrolein	0.030	0.033	-10.0	115	0.00	
14 c	1,1-Dicethene	0.337	0.363	-7.7	117	0.00	
15	Freon 113	0.360	0.386	-7.2	119	0.00	
16	Acetone	0.062	0.061	1.6	116	0.00	
17	2-Propanol	0.013	0.015	-15.4	129	0.00	
18	Iodomethane	0.505	0.626	-24.0#	120	0.00	
19	Carbon Disulfide	1.293	1.482	-14.6	124	0.00	
20	Acetonitrile	0.009	0.011	-22.2#	148	0.00	
21	Allyl Chloride	0.188	0.219	-16.5	124	0.00	
22	Methyl Acetate	0.180	0.221	-22.8#	129	0.00	
23	Methylene Chloride	0.419	0.421	-0.5	119	0.00	
24	TBA	0.021	0.022	-4.8	108	0.00	
25	Acrylonitrile	0.085	0.097	-14.1	118	0.00	
26	Methyl-t-Butyl Ether	0.854	0.912	-6.8	110	0.00	
27	trans-1,2-Dichloroethene	0.386	0.423	-9.6	120	0.00	
28 p	1,1-Dicethane	0.712	0.784	-10.1	122	0.00	
29	Vinyl Acetate	0.039	0.038	13.3	2.6	102	0.00
30	DIPE	1.037	1.307	-26.0#	128	0.00	①
31	2-Chloro-1,3-Butadiene	0.552	0.662	-19.9	119	0.00	
32	ETBE	0.966	1.116	-15.5	117	0.00	
33	2,2-Dichloropropane	0.508	0.591	-16.3	120	0.00	
34	cis-1,2-Dichloroethene	0.417	0.462	-10.8	121	0.00	
35	2-Butanone	0.103	0.109	-5.8	115	0.00	
36	Ethyl Acetate	0.000	0.000	0.0	115	0.00	
37	Propionitrile	0.032	0.037	-15.6	125	0.00	
38	Bromochloromethane	0.261	0.260	0.4	111	0.00	
39	Methacrylonitrile	0.089	0.100	-12.4	116	0.00	
40	Tetrahydrofuran	0.059	0.063	-6.8	118	0.00	
41 c	Chloroform	0.725	0.756	-4.3	115	0.00	
42	1,1,1-Trichloroethane	0.649	0.663	-2.2	112	0.00	
43	TAME	0.798	0.881	-10.4	113	0.00	
44 I	1,4-Difluorobenzene	1.000	1.000	0.0	118	0.00	
45	Cyclohexane	0.209	0.222	-6.2	121	0.00	
46 s	surr4,Dibrflmethane	0.297	0.311	6.3	4.7	115	0.00
47	Carbontetrachloride	0.124	0.118	4.8	110	0.00	

Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\070908\B0996.D Vial: 1
 Acq On : 9 Jul 2008 11:13 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FU
7/9/08

Quant Time: Jul 09 11:28:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
48	1,1-Dichloropropene	0.354	0.370	-4.5	119	0.00
49 s	surri,1,2-dichloroethane-d4	0.314	0.310	1.3	108	0.00
50	Benzene	1.007	1.060	-5.3	122	0.00
51	1,2-Dichloroethane	0.348	0.321	7.8	108	0.00
52	Iso-Butyl Alcohol	0.006	0.006	7.9 0.0	110	-0.01
53	n-Heptane	0.206	0.263	-27.7#	139	0.00
54	Trichloroethene	0.277	0.271	2.2	116	0.00
55	Methylcyclohexane	0.302	0.339	-12.3	120	0.00
56 c	1,2-Diclp propane	0.251	0.280	-11.6	125	0.00
57	Dibromomethane	0.147	0.139	5.4	111	0.00
58	1,4-Dioxane	0.002	0.002	0.0	115	0.00
59	Methyl Methacrylate	0.098	0.101	10.3 3.1	107	0.00
60	Bromodichloromethane	0.361	0.352	2.5	112	0.00
61	2-Nitropropane	0.000	0.000	0.0	106	0.00
62	2-Chloroethylvinyl Ether	0.074	0.110	-24.9 -48.6#	141	0.00
63	cis-1,3-Dichloropropene	0.377	0.414	-9.8	116	0.00
64	4-Methyl-2-pentanone	0.139	0.140	-0.7	111	0.00
65 s	SURR3,Toluene-d8	1.088	1.201	-10.4	121	0.00
66 c	Toluene	1.101	1.132	-2.8	119	0.00
67	trans-1,3-Dichloropropene	0.324	0.349	-7.7	111	0.00
68	Ethyl Methacrylate	0.191	0.209	10.4 -9.4	106	0.00
69	1,1,2-Trichloroethane	0.194	0.191	1.5	110	0.00
70 s	SURR2,BFB	0.448	0.502	-12.1	122	0.00
71 I	d5-Chlorobenzene	1.000	1.000	0.0	123	0.00
72	Tetrachloroethene	0.249	0.233	6.4	113	0.00
73	2-Hexanone	0.110	0.102	7.3	108	0.00
74	1,3-Dichloropropene	0.379	0.368	2.9	113	0.00
75	Dibromochloromethane	0.286	0.263	8.0	105	0.00
76	1,2-Dibromoethane	0.222	0.206	7.2	107	0.00
77 p	Chlorobenzene	0.832	0.805	3.2	117	0.00
78	1,1,1,2-Tetrachloroethane	0.297	0.282	5.1	112	0.00
79 c	Ethylbenzene	0.420	0.425	-1.2	117	0.00
80	(m+p)Xylene	0.508	0.530	-4.3	118	0.00
81	o-Xylene	0.485	0.511	-5.4	117	0.00
82	Styrene	0.829	0.871	-5.1	116	0.00
83 p	Bromoform	0.175	0.157	10.3	102	0.00
84	Isopropylbenzene	1.253	1.301	-3.8	115	0.00
85	Cyclohexanone	0.023	0.021	8.7	103	0.00
86	trans-1,4-Dichloro-2-Butene	0.045	0.041	8.9	107	0.00
87 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00
88 p	1,1,2,2-Tetrachloroethane	0.462	0.443	4.1	110	0.00
89	Bromobenzene	0.638	0.595	6.7	110	0.00
90	4-Ethyltoluene	0.000	0.000	0.0	116	0.00
91	1,2,3-Trichloropropane	0.138	0.121	12.3	102	0.00
92	n-Propylbenzene	2.763	2.961	-7.2	118	0.00
93	2-Chlorotoluene	1.730	1.738	-0.5	115	0.00



Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUADATA\msvoa10\data\070908\B0996.D Vial: 1
 Acq On : 9 Jul 2008 11:13 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
7/9/08

Quant Time: Jul 09 11:28:05 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	<i>20.4</i> %Dev	Area%	Dev(min)
94	4-Chlorotoluene	2.043	2.063	-1.0	115	0.00
95	1,3,5-Trimethylbenzene	1.970	2.025	-2.8	113	0.00
96	tert-Butylbenzene	1.613	1.677	-4.0	113	0.00
97	1,2,4-Trimethylbenzene	2.037	2.106	-3.4	113	0.00
98	sec-Butylbenzene	2.361	2.501	-5.9	115	0.00
99	p-Isopropyltoluene	2.058	2.140	-4.0	114	0.00
100	1,3-Dclbenz	1.259	1.196	5.0	111	0.00
101	1,4-Dclbenz	1.303	1.209	7.2	110	0.00
102	Benzyl Chloride	0.000	0.000	0.0	42#	0.07
103	n-Butylbenzene	1.781	1.954	-9.7	118	0.00
104	1,2-Dclbenz	1.186	1.112	6.2	108	0.00
105	1,2-Dibromo-3-chloropropane	0.101	0.085	15.8	94	0.00
106	Nitrobenzene	0.000	0.000	0.0	115	0.00
107	1,2,4-Tcbenzene	0.809	0.779	3.7	106	0.00
108	Hexachlorobt	0.329	0.320	2.7	114	0.00
109	Naphthalen	1.534	1.521	<i>13.9</i> 8.8	99	0.00
110	1,2,3-Tclbenzene	0.741	0.692	6.6	104	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\070908\B0996.D Vial: 1
 Acq On : 9 Jul 2008 11:13 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
7/9/08

Quant Time: Jul 09 11:28:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1443677	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2343165	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2212633	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1234783	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	729485	46.85	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	93.70%		
49) surr1,1,2-dichloroetha...	4.885	65	725412	49.25	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	98.50%		
65) SURR3,Toluene-d8	7.445	98	2815188	55.19	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	110.38%		
70) SURR2,BFB	9.896	95	1175281	55.95	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	111.90%		
Target Compounds							
2) Dichlorodifluoromethane	1.184	85	524561	45.44	ug/L	99	Qvalue
4) Chloromethane	1.294	50	606523	56.58	ug/L	100	
5) Vinyl Chloride	1.355	62	592451	53.55	ug/L	98	
6) Bromomethane	1.556	94	396960	50.23	ug/L	99	
7) Chloroethane	1.611	64	338597	55.03	ug/L	99	
8) Freon 21	1.721	67	1080443	52.12	ug/L	99	
9) Trichlorofluoromethane	1.763	101	962525	49.74	ug/L	99	
10) Diethyl Ether	1.934	59	349561	53.58	ug/L	98	
11) Freon 123a	1.928	67	663205	52.97	ug/L	91	
12) Freon 123	1.965	83	807672	53.35	ug/L	98	
13) Acrolein	2.020	56	240245	280.21	ug/L	98	
14) 1,1-Dicethene	2.099	96	524697	53.86	ug/L	97	
15) Freon 113	2.093	101	556580	53.50	ug/L	99	
16) Acetone	2.123	43	87755	49.26	ug/L	96	
17) 2-Propanol	2.196	45	430018	1135.27	ug/L	97	
18) Iodomethane	2.215	142	903538	61.92	ug/L	98	
19) Carbon Disulfide	2.276	76	2138864	57.27	ug/L	100	
20) Acetonitrile	2.324	40	83007	333.06	ug/L	95	
21) Allyl Chloride	2.355	76	315498	58.11	ug/L	92	
22) Methyl Acetate	2.355	43	319569	61.39	ug/L	98	
23) Methylene Chloride	2.446	84	607993	50.28	ug/L	97	
24) TBA	2.507	59	621534	1034.23	ug/L	99	
25) Acrylonitrile	2.635	53	703692	286.55	ug/L	99	
26) Methyl-t-Butyl Ether	2.666	73	1316328	53.35	ug/L	97	
27) trans-1,2-Dichloroethene	2.672	96	610133	54.70	ug/L	95	
28) 1,1-Dicethane	3.062	63	1132485	55.12	ug/L	99	
29) Vinyl Acetate	3.099	86	55550	43.34	ug/L	66	
30) DIPE	3.117	45	1887075	63.04	ug/L	92	
31) 2-Chloro-1,3-Butadiene	3.153	53	955891	59.95	ug/L	95	
32) ETBE	3.513	59	1610784	57.77	ug/L	98	
33) 2,2-Dichloropropane	3.696	77	852949	58.12	ug/L	100	
34) cis-1,2-Dichloroethene	3.696	96	666838	55.38	ug/L	100	
35) 2-Butanone	3.708	43	157423	52.70	ug/L	99	
37) Propionitrile	3.787	54	265396	287.31	ug/L	98	
38) Bromochloromethane	4.001	130	375037	49.75	ug/L	90	

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\070908\B0996.D Vial: 1
 Acq On : 9 Jul 2008 11:13 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 09 11:28:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.989	67	143882	55.82	ug/L	96
40) Tetrahydrofuran	4.074	42	90268	52.62	ug/L	99
41) Chloroform	4.117	83	1091750	52.12	ug/L	99
42) 1,1,1-Trichloroethane	4.385	97	957747	51.13	ug/L	99
43) TAME	5.208	73	1271932	55.19	ug/L	98
45) Cyclohexane	4.464	41	520830	53.16	ug/L	96
47) Carbontetrachloride	4.641	121	276365	47.68	ug/L	91
48) 1,1-Dichloropropene	4.641	75	867471	52.25	ug/L	99
50) Benzene	4.982	78	2482860	52.59	ug/L	99
51) 1,2-Dichloroethane	5.019	62	753153	46.21	ug/L	96
52) Iso-Butyl Alcohol	4.885	43	274818	920.91	ug/L	97
53) n-Heptane	5.476	43	617321	63.88	ug/L	96
54) Trichloroethene	5.988	130	635520	49.03	ug/L	99
55) Methylcyclohexane	6.232	55	794390	56.09	ug/L	98
56) 1,2-Diclp propane	6.281	63	656063	55.79	ug/L	98
57) Dibromomethane	6.427	93	326453	47.53	ug/L	97
58) 1,4-Dioxane	6.476	88	94762	1009.12	ug/L	95
59) Methyl Methacrylate	6.482	69	236671	44.86	ug/L	97
60) Bromodichloromethane	6.641	83	824909	48.77	ug/L	100
62) 2-Chloroethylvinyl Ether	7.025	63	257152	62.43	ug/L	99
63) cis-1,3-Dichloropropene	7.165	75	969877	54.96	ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	328479	50.40	ug/L	98
66) Toluene	7.518	91	2651579	51.38	ug/L	99
67) trans-1,3-Dichloropropene	7.762	75	817701	53.81	ug/L	99
68) Ethyl Methacrylate	7.884	69	488554	44.82	ug/L	95
69) 1,1,2-Trichloroethane	7.945	97	447003	49.06	ug/L	97
72) Tetrachloroethene	8.067	164	514994	46.67	ug/L	96
73) 2-Hexanone	8.207	43	225420	46.15	ug/L	94
74) 1,3-Dichloropropane	8.104	76	813685	48.47	ug/L	99
75) Dibromochloromethane	8.317	129	582464	46.10	ug/L	98
76) 1,2-Dibromoethane	8.415	107	456370	46.52	ug/L	100
77) Chlorobenzene	8.884	112	1780096	48.36	ug/L	98
78) 1,1,1,2-Tetrachloroethane	8.963	131	623940	47.48	ug/L	98
79) Ethylbenzene	8.994	106	939823	50.60	ug/L	99
80) (m+p)Xylene	9.097	106	2345075	104.25	ug/L	98
81) o-Xylene	9.445	106	1131526	52.68	ug/L	99
82) Styrene	9.457	104	1928256	52.56	ug/L	97
83) Bromoform	9.610	173	348397	44.95	ug/L	95
84) Isopropylbenzene	9.768	105	2878133	51.91	ug/L	100
85) Cyclohexanone	9.841	55	916699	912.82	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.073	53	90572	45.41	ug/L	94
88) 1,1,2,2-Tetrachloroethane	10.024	83	546400	47.92	ug/L	99
89) Bromobenzene	10.018	156	734199	46.57	ug/L	94
91) 1,2,3-Trichloropropane	10.055	110	149430	43.86	ug/L	93
92) n-Propylbenzene	10.116	91	3655967	53.58	ug/L	99
93) 2-Chlorotoluene	10.183	91	2146565	50.25	ug/L	100
94) 4-Chlorotoluene	10.274	91	2547526	50.50	ug/L	98
95) 1,3,5-Trimethylbenzene	10.262	105	2500270	51.39	ug/L	99
96) tert-Butylbenzene	10.530	119	2071322	52.00	ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	2600459	51.69	ug/L	99
98) sec-Butylbenzene	10.713	105	3087577	52.95	ug/L	99
99) p-Isopropyltoluene	10.829	119	2642776	52.01	ug/L	99

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\070908\B0996.D Vial: 1
 Acq On : 9 Jul 2008 11:13 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 09 11:28:05 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	1476497	47.47	ug/L	100
101) 1,4-Dclbenz	10.871	146	1493449	46.41	ug/L	100
103) n-Butylbenzene	11.152	91	2412182	54.86	ug/L	99
104) 1,2-Dclbenz	11.164	146	1373554	46.90	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	104708	42.08	ug/L	98
107) 1,2,4-Tcbenzene	12.237	180	962469	48.15	ug/L	98
108) Hexachlorobt	12.335	225	394777	48.65	ug/L	99
109) Naphthalen	12.377	128	1878034	43.05	ug/L	100
110) 1,2,3-Tclbenzene	12.517	180	855061	46.71	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\071008\B1023.D Vial: 1
 Acq On : 10 Jul 2008 12:58 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FU
7/11/08

Quant Time: Jul 10 13:12:41 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Diff	%Dev	Area	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	112	0.00	
2	Dichlorodifluoromethane	0.400	0.411	-2.7	108	0.00	
3	Freon 114	0.000	0.000	0.0	108	0.00	
4 p	Chloromethane	0.371	0.344	7.3	100	0.00	
5 c	Vinyl Chloride	0.383	0.393	-2.6	109	0.00	
6	Bromomethane	0.274	0.254	7.3	106	0.00	
7	Chloroethane	0.213	0.208	2.3	111	0.00	
8	Freon 21	0.718	0.707	1.5	106	0.00	
9	Trichlorofluoromethane	0.670	0.633	5.5	103	0.00	
10	Diethyl Ether	0.226	0.206	8.8	101	0.00	
11	Freon 123a	0.434	0.436	-0.5	108	0.00	
12	Freon 123	0.524	0.552	-5.3	114	0.00	
13	Acrolein	0.030	0.021	30.0#	74	0.00	
14 c	1,1-Diclcethene	0.337	0.376	-11.6	121	0.00	
15	Freon 113	0.360	0.394	-9.4	121	0.00	
16	Acetone	0.062	0.052	16.1	100	0.00	
17	2-Propanol	0.013	0.012	7.7	103	0.00	
18	Iodomethane	0.505	0.642	-27.1#	123	0.00	
19	Carbon Disulfide	1.293	1.473	-13.9	123	0.00	
20	Acetonitrile	0.009	0.008	11.1	107	0.00	
21	Allyl Chloride	0.188	0.228	-21.3#	130	0.00	
22	Methyl Acetate	0.180	0.178	1.1	104	0.00	
23	Methylene Chloride	0.419	0.427	-1.9	121	0.00	
24	TBA	0.021	0.020	4.8	100	0.00	
25	Acrylonitrile	0.085	0.087	-2.4	106	0.00	
26	Methyl-t-Butyl Ether	0.854	0.906	-6.1	110	0.00	
27	trans-1,2-Dichloroethene	0.386	0.429	-11.1	122	0.00	
28 p	1,1-Diclcethane	0.712	0.736	-3.4	114	0.00	
29	Vinyl Acetate	0.039	0.037	15.7	5.1 99	0.00	
30	DIPE	1.037	1.003	3.3	98	0.00	
31	2-Chloro-1,3-Butadiene	0.552	0.570	-3.3	102	0.00	
32	ETBE	0.966	0.999	-3.4	105	0.00	
33	2,2-Dichloropropane	0.508	0.552	-8.7	113	0.00	
34	cis-1,2-Dichloroethene	0.417	0.471	-12.9	123	0.00	
35	2-Butanone	0.103	0.090	12.6	96	0.00	
36	Ethyl Acetate	0.000	0.000	0.0	96	0.00	
37	Propionitrile	0.032	0.033	-3.1	114	0.00	
38	Bromochloromethane	0.261	0.273	-4.6	117	0.00	
39	Methacrylonitrile	0.089	0.109	-22.5#	127	0.00	
40	Tetrahydrofuran	0.059	0.056	5.1	105	0.00	
41 c	Chloroform	0.725	0.738	-1.8	112	0.00	
42	1,1,1-Trichloroethane	0.649	0.638	1.7	108	0.00	
43	TAME	0.798	0.852	-6.8	109	0.00	
44 I	1,4-Difluorobenzene	1.000	1.000	0.0	118	0.00	
45	Cyclohexane	0.209	0.180	13.9	98	0.00	
46 s	surr4,Dibrflmethane	0.297	0.306	8.4	3.0 113	0.00	
47	Carbontetrachloride	0.124	0.115	7.3	107	0.00	

Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\071008\B1023.D Vial: 1
 Acq On : 10 Jul 2008 12:58 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 10 13:12:41 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Fw
 7/16/08

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Diff	%Dev	Area	% Dev(min)
48	1,1-Dichloropropene	0.354	0.360	-1.7	116	0.00
49 s	surr1,1,2-dichloroethane-d4	0.314	0.276	12.1	97	0.00
50	Benzene	1.007	1.055	-4.8	122	0.00
51	1,2-Dichloroethane	0.348	0.296	14.9	99	0.00
52	Iso-Butyl Alcohol	0.006	0.005	22.2	16.7 92	-0.01
53	n-Heptane	0.206	0.204	1.0	108	0.00
54	Trichloroethene	0.277	0.281	-1.4	120	0.00
55	Methylcyclohexane	0.302	0.311	-3.0	110	0.00
56 c	1,2-Diclpropane	0.251	0.266	-6.0	119	0.00
57	Dibromomethane	0.147	0.143	2.7	113	0.00
58	1,4-Dioxane	0.002	0.002	0.0	108	0.00
59	Methyl Methacrylate	0.098	0.119	-4.9	21.4 125	0.00
60	Bromodichloromethane	0.361	0.346	4.2	110	0.00
61	2-Nitropropane	0.000	0.000	0.0	89	0.00
62	2-Chloroethylvinyl Ether	0.074	0.115	-30.7	55.4 147	0.00
63	cis-1,3-Dichloropropene	0.377	0.414	-9.8	116	0.00
64	4-Methyl-2-pentanone	0.139	0.121	12.9	95	0.00
65 s	SURR3,Toluene-d8	1.088	1.188	-9.2	119	0.00
66 c	Toluene	1.101	1.135	-3.1	120	0.00
67	trans-1,3-Dichloropropene	0.324	0.344	-6.2	109	0.00
68	Ethyl Methacrylate	0.191	0.250	-6.7	30.9 127	0.00
69	1,1,2-Trichloroethane	0.194	0.199	-2.6	115	0.00
70 s	SURR2,BFB	0.448	0.493	-10.0	120	0.00
71 I	d5-Chlorobenzene	1.000	1.000	0.0	123	0.00
72	Tetrachloroethene	0.249	0.237	4.8	116	0.00
73	2-Hexanone	0.110	0.087	20.9	# 93	0.00
74	1,3-Dichloropropane	0.379	0.367	3.2	114	0.00
75	Dibromochloromethane	0.286	0.274	4.2	110	0.00
76	1,2-Dibromoethane	0.222	0.217	2.3	113	0.00
77 p	Chlorobenzene	0.832	0.816	1.9	119	0.00
78	1,1,1,2-Tetrachloroethane	0.297	0.287	3.4	114	0.00
79 c	Ethylbenzene	0.420	0.431	-2.6	119	0.00
80	(m+p)Xylene	0.508	0.532	-4.7	119	0.00
81	o-Xylene	0.485	0.519	-7.0	119	0.00
82	Styrene	0.829	0.879	-6.0	117	0.00
83 p	Bromoform	0.175	0.167	4.6	108	0.00
84	Isopropylbenzene	1.253	1.290	-3.0	114	0.00
85	Cyclohexanone	0.023	0.021	8.7	102	0.00
86	trans-1,4-Dichloro-2-Butene	0.045	0.053	-17.8	141	0.00
87 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00
88 p	1,1,2,2-Tetrachloroethane	0.462	0.452	2.2	112	0.00
89	Bromobenzene	0.638	0.618	3.1	114	0.00
90	4-Ethyltoluene	0.000	0.000	0.0	116	0.00
91	1,2,3-Trichloropropane	0.138	0.126	8.7	106	0.00
92	n-Propylbenzene	2.763	2.911	-5.4	116	0.00
93	2-Chlorotoluene	1.730	1.731	-0.1	114	0.00



Evaluate Continuing Calibration Report

Sample : CCV
 Data File : J:\ACQUDATA\msvoa10\data\071008\B1023.D Vial: 1
 Acq On : 10 Jul 2008 12:58 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 10 13:12:41 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FW
7/16/08

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	% Diff	% Dev	Area	Dev (min)
94 4-Chlorotoluene	2.043	2.016	1.3	112	0.00	
95 1,3,5-Trimethylbenzene	1.970	2.021	-2.6	112	0.00	
96 tert-Butylbenzene	1.613	1.677	-4.0	112	0.00	
97 1,2,4-Trimethylbenzene	2.037	2.094	-2.8	112	0.00	
98 sec-Butylbenzene	2.361	2.484	-5.2	115	0.00	
99 p-Isopropyltoluene	2.058	2.131	-3.5	114	0.00	
100 1,3-Dclbenz	1.259	1.222	2.9	114	0.00	
101 1,4-Dclbenz	1.303	1.246	4.4	114	0.00	
102 Benzyl Chloride	0.000	0.000	0.0	50#	0.00	
103 n-Butylbenzene	1.781	1.881	-5.6	114	0.00	
104 1,2-Dclbenz	1.186	1.156	2.5	113	0.00	
105 1,2-Dibromo-3-chloropropane	0.101	0.093	7.9	103	0.00	
106 Nitrobenzene	0.000	0.000	0.0	132	0.00	
107 1,2,4-Tcbenzene	0.809	0.814	-0.6	111	0.00	
108 Hexachlorobt	0.329	0.303	7.9	108	0.00	
109 Naphthalen	1.534	1.597	<i>4.6</i>	104	104	0.00
110 1,2,3-Tclbenzene	0.741	0.718	3.1	108	0.00	

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\071008\B1023.D Vial: 1
 Acq On : 10 Jul 2008 12:58 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FW
7/16/08

Quant Time: Jul 10 13:12:41 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1445520	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2339781	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2222826	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1234687	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	716335	45.80	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	91.60%		
49) surr1,1,2-dichloroetha...	4.891	65	646550	43.96	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	87.92%		
65) SURR3,Toluene-d8	7.445	98	2780549	54.59	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.18%		
70) SURR2,BFB	9.896	95	1152852	54.96	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.92%		
Target Compounds							
2) Dichlorodifluoromethane	1.184	85	593446	51.34	ug/L		Qvalue 99
4) Chloromethane	1.294	50	497261	46.33	ug/L		99
5) Vinyl Chloride	1.355	62	568207	51.29	ug/L		99
6) Bromomethane	1.556	94	366925	46.37	ug/L		99
7) Chloroethane	1.611	64	299954	48.69	ug/L		100
8) Freon 21	1.721	67	1022478	49.26	ug/L		100
9) Trichlorofluoromethane	1.763	101	914395	47.20	ug/L		100
10) Diethyl Ether	1.934	59	298346	45.67	ug/L		94
11) Freon 123a	1.928	67	630722	50.31	ug/L		93
12) Freon 123	1.971	83	797292	52.60	ug/L		98
13) Acrolein	2.026	56	155064	180.63	ug/L		96
14) 1,1-Dicethene	2.099	96	543008	55.67	ug/L		93
15) Freon 113	2.093	101	569417	54.66	ug/L		97
16) Acetone	2.123	43	75863	42.53	ug/L		86
17) 2-Propanol	2.196	45	343832	906.58	ug/L		100
18) Iodomethane	2.215	142	927617	63.49	ug/L		94
19) Carbon Disulfide	2.275	76	2129318	56.95	ug/L		99
20) Acetonitrile	2.324	40	59874	239.94	ug/L		94
21) Allyl Chloride	2.355	76	329600	60.63	ug/L		69
22) Methyl Acetate	2.355	43	257727	49.45	ug/L	#	92
23) Methylene Chloride	2.446	84	616749	50.94	ug/L		89
24) TBA	2.507	59	572705	951.76	ug/L		93
25) Acrylonitrile	2.641	53	628400	255.56	ug/L		99
26) Methyl-t-Butyl Ether	2.666	73	1310165	53.04	ug/L		99
27) trans-1,2-Dichloroethene	2.678	96	620261	55.53	ug/L		92
28) 1,1-Dicethane	3.062	63	1063659	51.71	ug/L		99
29) Vinyl Acetate	3.099	86	54024	42.16	ug/L		55
30) DIPE	3.117	45	1449358	48.36	ug/L		91
31) 2-Chloro-1,3-Butadiene	3.153	53	824256	51.63	ug/L		82
32) ETBE	3.519	59	1444135	51.72	ug/L		97
33) 2,2-Dichloropropane	3.702	77	798459	54.33	ug/L		98
34) cis-1,2-Dichloroethene	3.696	96	680237	56.42	ug/L		90
35) 2-Butanone	3.714	43	130392	43.59	ug/L	#	92
37) Propionitrile	3.787	54	241360	260.96	ug/L		98
38) Bromochloromethane	4.007	130	394166	52.22	ug/L		92

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\071008\B1023.D Vial: 1
 Acq On : 10 Jul 2008 12:58 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 10 13:12:41 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	157370	60.97	ug/L	78
40) Tetrahydrofuran	4.074	42	80354	46.78	ug/L #	84
41) Chloroform	4.117	83	1066272	50.84	ug/L	98
42) 1,1,1-Trichloroethane	4.385	97	922881	49.21	ug/L	98
43) TAME	5.214	73	1231970	53.39	ug/L	94
45) Cyclohexane	4.464	41	421705	43.10	ug/L	94
47) Carbontetrachloride	4.641	121	269046	46.49	ug/L	95
48) 1,1-Dichloropropene	4.641	75	841493	50.76	ug/L	96
50) Benzene	4.988	78	2468594	52.36	ug/L	94
51) 1,2-Dichloroethane	5.025	62	692585	42.55	ug/L	100
52) Iso-Butyl Alcohol	4.885	43	228655	777.82	ug/L	93
53) n-Heptane	5.476	43	478205	49.56	ug/L #	89
54) Trichloroethene	5.994	130	658530	50.88	ug/L	99
55) Methylcyclohexane	6.232	55	727896	51.47	ug/L	90
56) 1,2-Diclp propane	6.281	63	623260	53.07	ug/L	100
57) Dibromomethane	6.427	93	333633	48.65	ug/L	99
58) 1,4-Dioxane	6.482	88	89207	951.34	ug/L	99
59) Methyl Methacrylate	6.482	69	277763	52.47	ug/L	89
60) Bromodichloromethane	6.640	83	810324	47.98	ug/L	100
62) 2-Chloroethylvinyl Ether	7.025	63	268723	65.34	ug/L	97
63) cis-1,3-Dichloropropene	7.165	75	969420	55.01	ug/L	98
64) 4-Methyl-2-pentanone	7.354	43	282319	43.38	ug/L #	93
66) Toluene	7.518	91	2656476	51.55	ug/L	99
67) trans-1,3-Dichloropropene	7.768	75	805111	53.06	ug/L	98
68) Ethyl Methacrylate	7.884	69	584194	53.37	ug/L	86
69) 1,1,2-Trichloroethane	7.945	97	465207	51.14	ug/L	99
72) Tetrachloroethene	8.073	164	527554	47.59	ug/L	98
73) 2-Hexanone	8.213	43	193089	39.35	ug/L #	86
74) 1,3-Dichloropropane	8.104	76	816722	48.43	ug/L	91
75) Dibromochloromethane	8.323	129	608896	47.97	ug/L	98
76) 1,2-Dibromoethane	8.415	107	481742	48.88	ug/L	100
77) Chlorobenzene	8.884	112	1813857	49.05	ug/L	98
78) 1,1,1,2-Tetrachloroethane	8.963	131	636895	48.24	ug/L	96
79) Ethylbenzene	8.994	106	957567	51.32	ug/L	95
80) (m+p)Xylene	9.103	106	2365093	104.66	ug/L	95
81) o-Xylene	9.445	106	1152617	53.41	ug/L	98
82) Styrene	9.463	104	1953692	53.00	ug/L	97
83) Bromoform	9.616	173	370176	47.55	ug/L	99
84) Isopropylbenzene	9.768	105	2868074	51.49	ug/L	98
85) Cyclohexanone	9.841	55	912491	904.46	ug/L	90
86) trans-1,4-Dichloro-2-B...	10.073	53	118516	59.14	ug/L #	80
88) 1,1,2,2-Tetrachloroethane	10.024	83	558564	48.99	ug/L	100
89) Bromobenzene	10.018	156	763205	48.41	ug/L	99
91) 1,2,3-Trichloropropane	10.054	110	155222	45.56	ug/L	99
92) n-Propylbenzene	10.115	91	3593966	52.67	ug/L	99
93) 2-Chlorotoluene	10.182	91	2136895	50.03	ug/L	99
94) 4-Chlorotoluene	10.274	91	2489588	49.35	ug/L	98
95) 1,3,5-Trimethylbenzene	10.268	105	2495002	51.28	ug/L	96
96) tert-Butylbenzene	10.530	119	2070404	51.98	ug/L	98
97) 1,2,4-Trimethylbenzene	10.573	105	2585400	51.40	ug/L	98
98) sec-Butylbenzene	10.713	105	3067377	52.61	ug/L	99
99) p-Isopropyltoluene	10.829	119	2631705	51.79	ug/L	98

Sample : CCV
 Data File : J:\ACQUDATA\MSVOA10\DATA\071008\B1023.D Vial: 1
 Acq On : 10 Jul 2008 12:58 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 10 13:12:41 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	1508245	48.50	ug/L	99
101) 1,4-Dclbenz	10.871	146	1537902	47.80	ug/L	99
103) n-Butylbenzene	11.158	91	2322893	52.83	ug/L	98
104) 1,2-Dclbenz	11.164	146	1427085	48.73	ug/L	98
105) 1,2-Dibromo-3-chloropr...	11.719	157	114554	46.04	ug/L	98
107) 1,2,4-Tcbenzene	12.237	180	1004764	50.27	ug/L	99
108) Hexachlorobt	12.335	225	373518	46.03	ug/L	99
109) Naphthalen	12.377	128	1972317	45.19	ug/L	99
110) 1,2,3-Tclbenzene	12.511	180	887101	48.46	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

VOLATILE ORGANICS

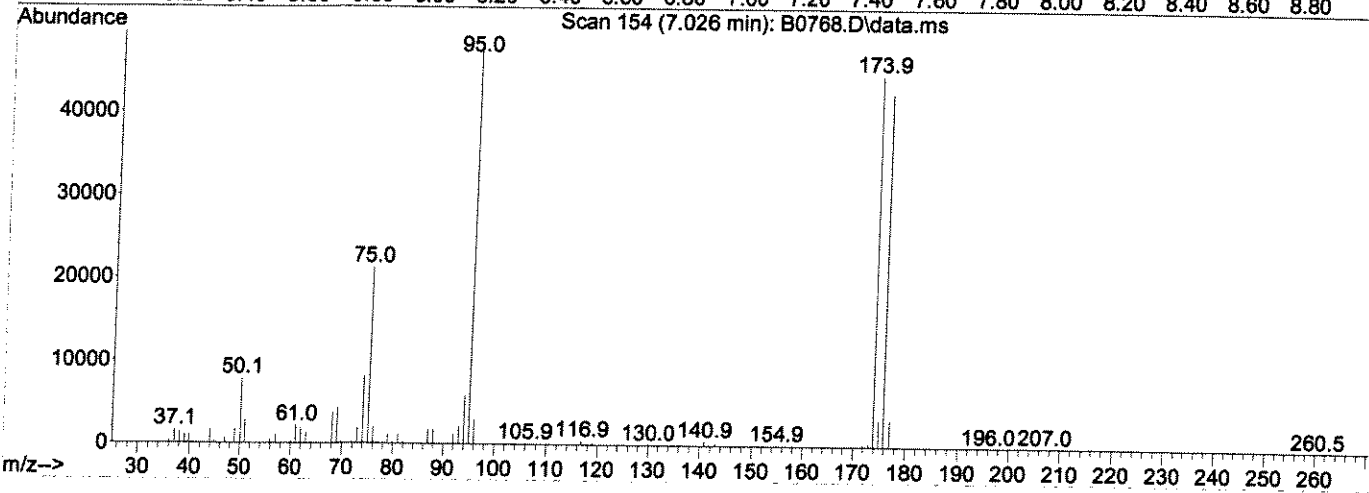
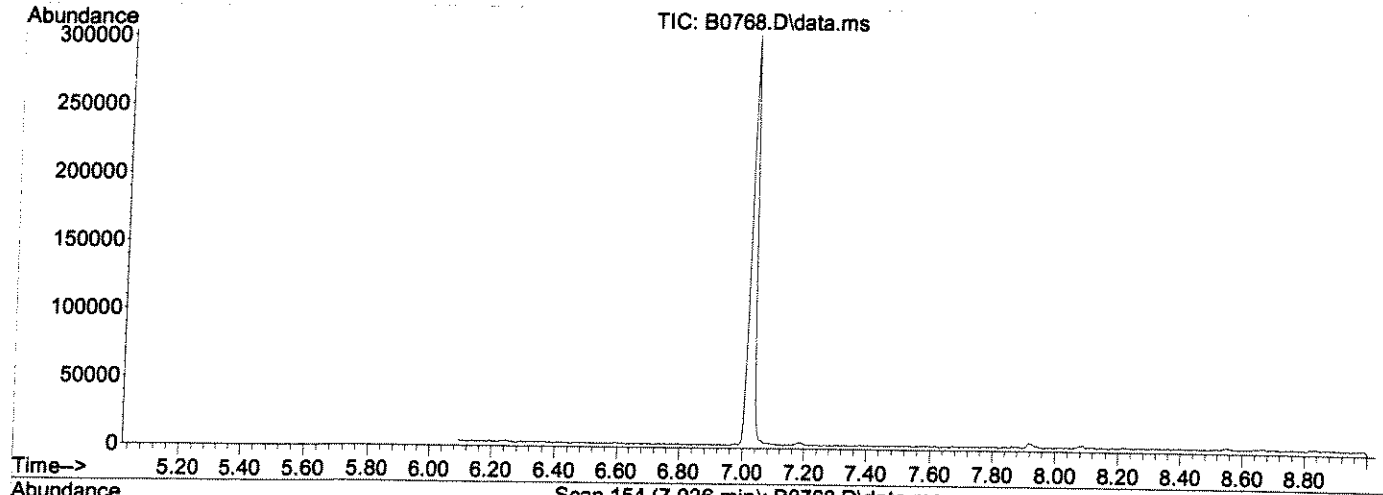
RAW QC DATA

FW
6/26/08

Data Path : J:\ACQUDATA\msvoa10\data\062608\
 Data File : B0768.D
 Acq On : 26 Jun 2008 11:33 am
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 154

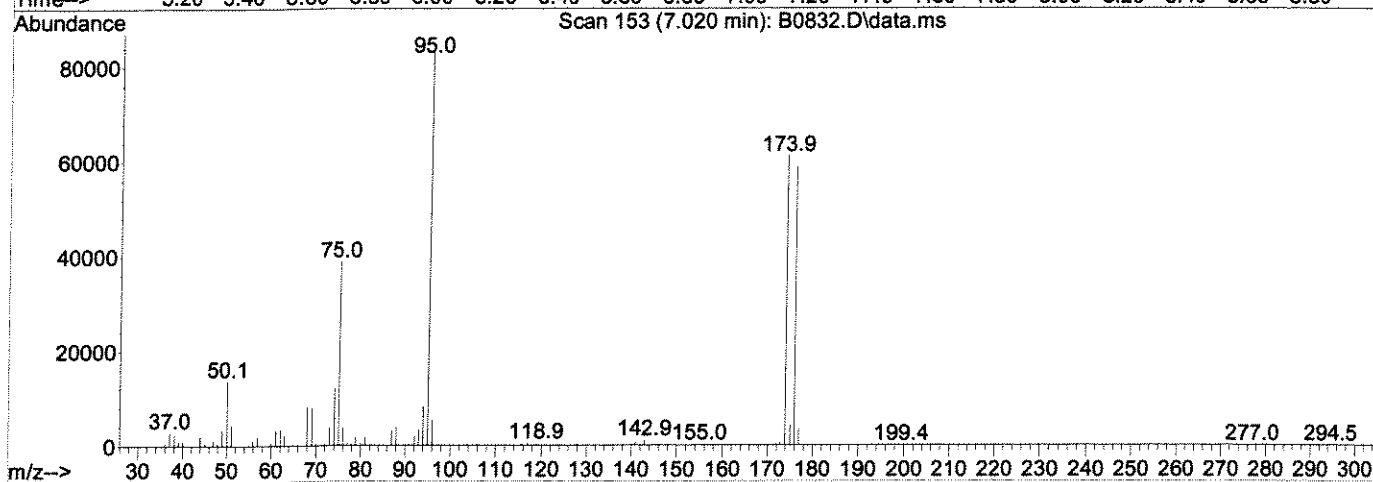
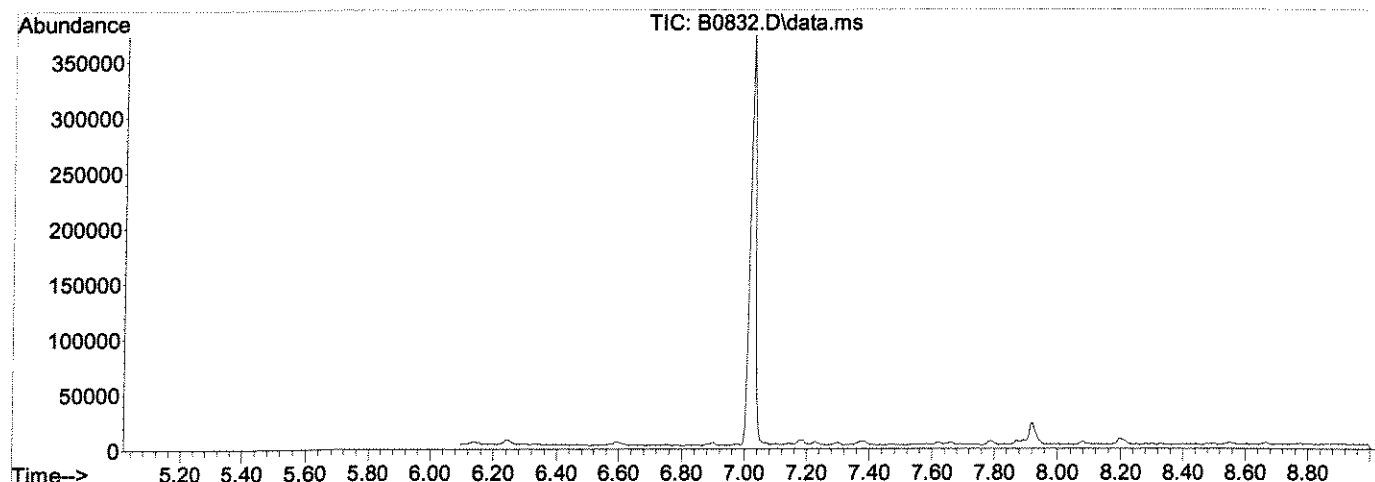
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	7842	PASS
75	95	30	60	44.9	21232	PASS
95	95	100	100	100.0	47328	PASS
96	95	5	9	6.3	2996	PASS
173	174	0.00	2	0.9	388	PASS
174	95	50	120	94.6	44768	PASS
175	174	5	9	7.1	3163	PASS
176	174	95	101	95.1	42552	PASS
177	176	5	9	7.6	3247	PASS

Data Path : J:\ACQUDATA\msvoa10\data\063008\
 Data File : B0832.D
 Acq On : 1 Jul 2008 1:28 am
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

FN
7/2/08

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 153

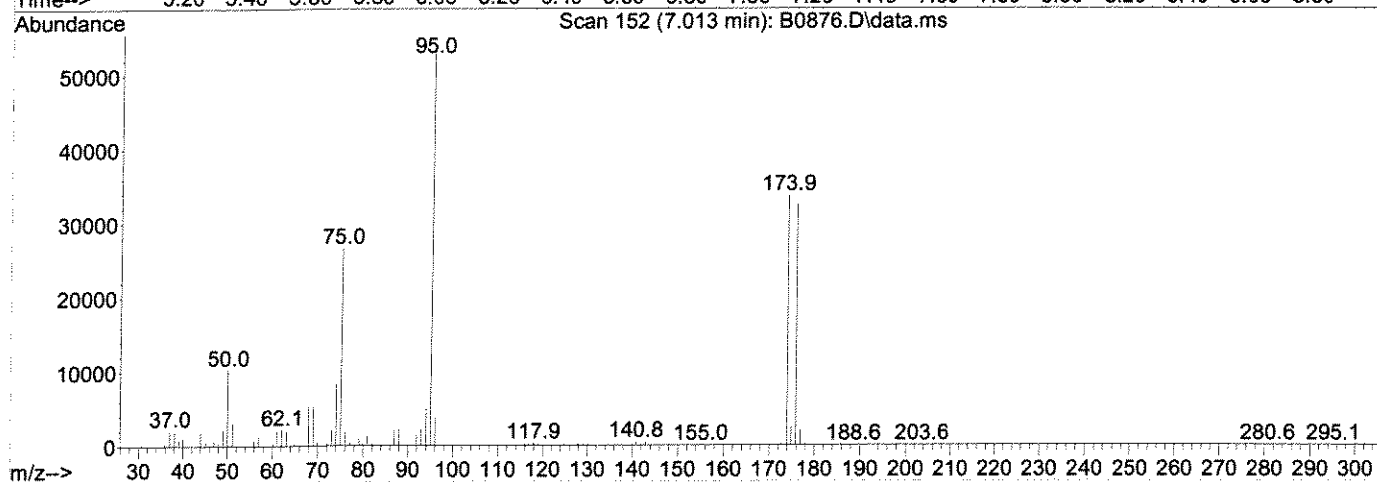
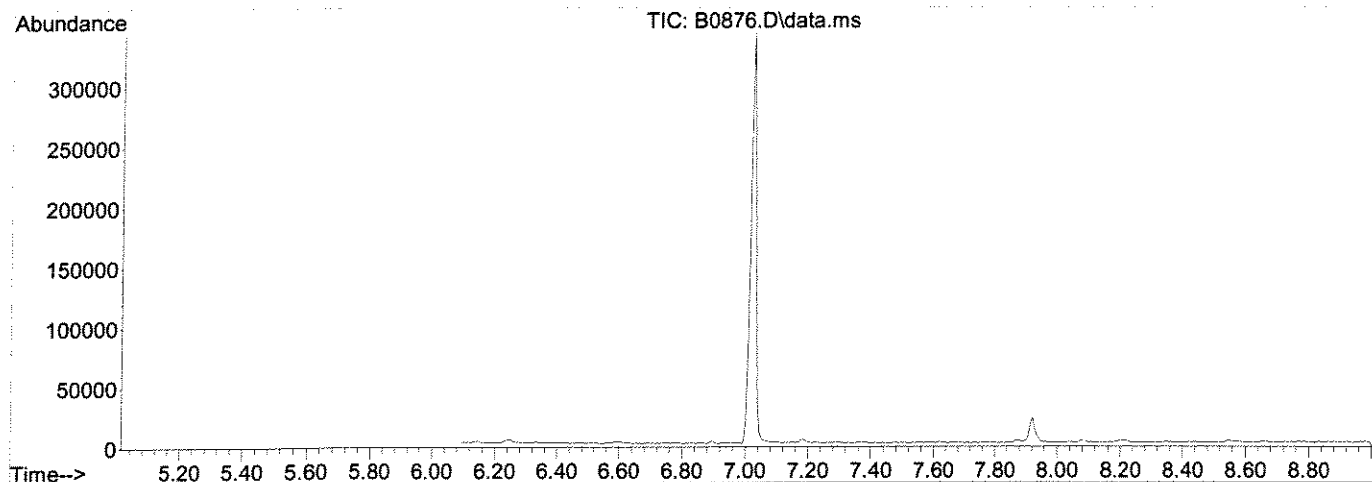
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.5	13689	PASS
75	95	30	60	46.7	38776	PASS
95	95	100	100	100.0	82968	PASS
96	95	5	9	6.6	5483	PASS
173	174	0.00	2	0.7	446	PASS
174	95	50	120	73.6	61072	PASS
175	174	5	9	7.0	4263	PASS
176	174	95	101	96.2	58736	PASS
177	176	5	9	6.0	3542	PASS

Data Path : J:\ACQUDATA\msvoa10\data\070208\
 Data File : B0876.D
 Acq On : 2 Jul 2008 11:32 am
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

FW
7/1/08

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 152

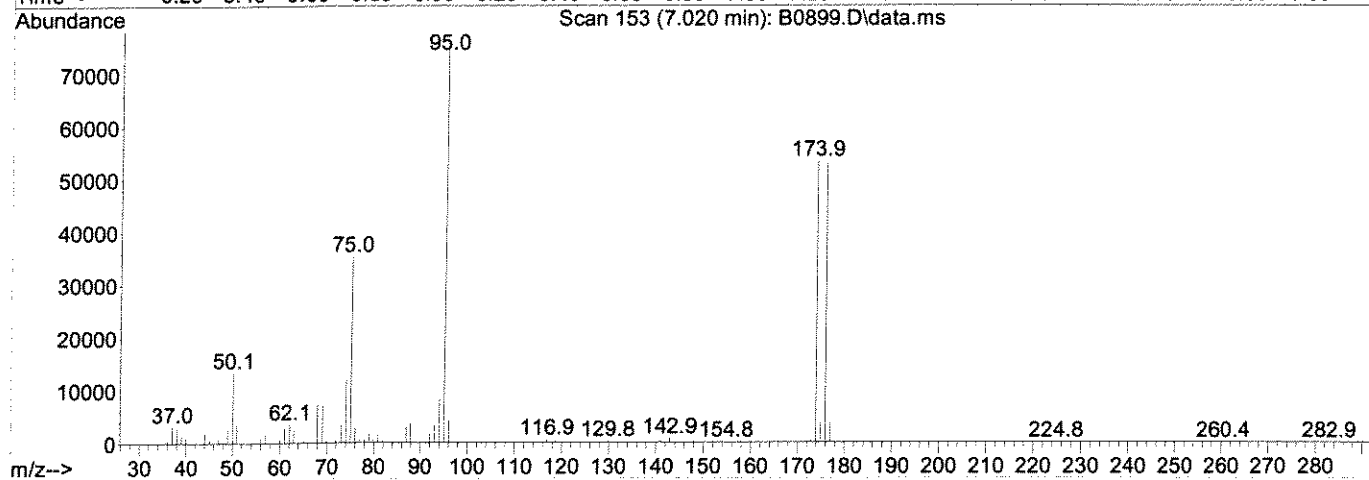
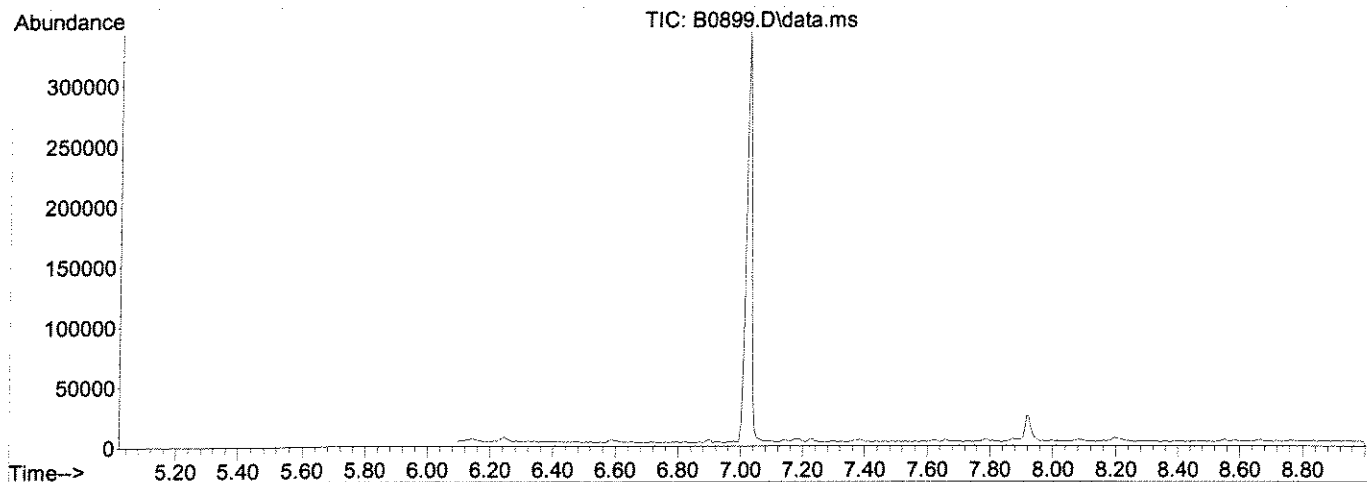
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	10310	PASS
75	95	30	60	50.2	26624	PASS
95	95	100	100	100.0	53048	PASS
96	95	5	9	7.3	3858	PASS
173	174	0.00	2	0.9	313	PASS
174	95	50	120	63.6	33720	PASS
175	174	5	9	7.8	2635	PASS
176	174	95	101	96.6	32584	PASS
177	176	5	9	6.3	2062	PASS

Data Path : J:\ACQUDATA\msvoa10\data\070308\
 Data File : B0899.D
 Acq On : 3 Jul 2008 10:30 am
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006

FW
7/31/08



Spectrum Information: Scan 153

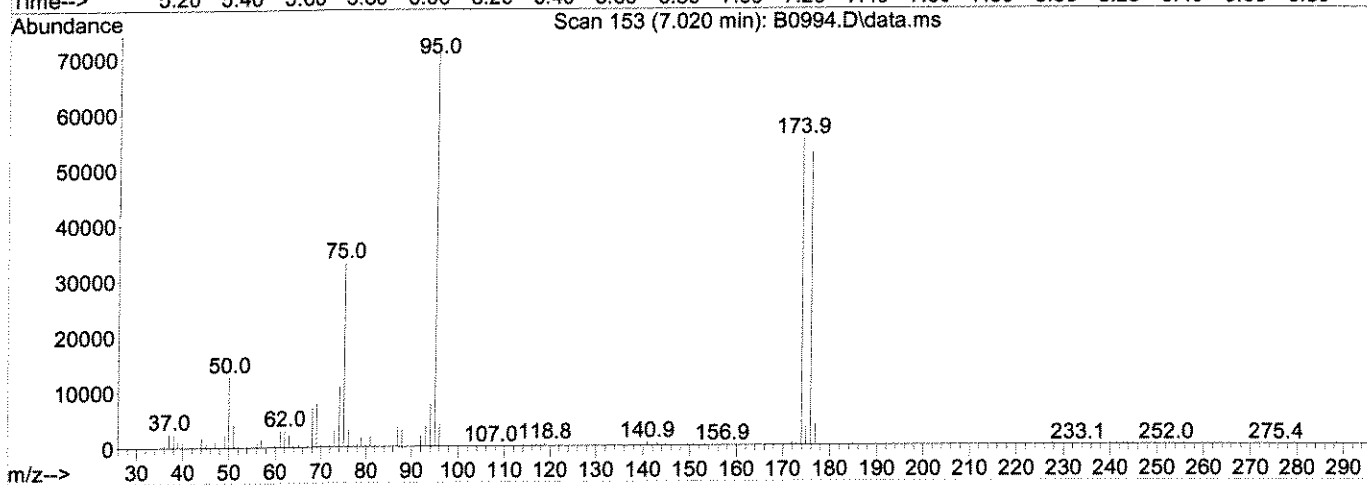
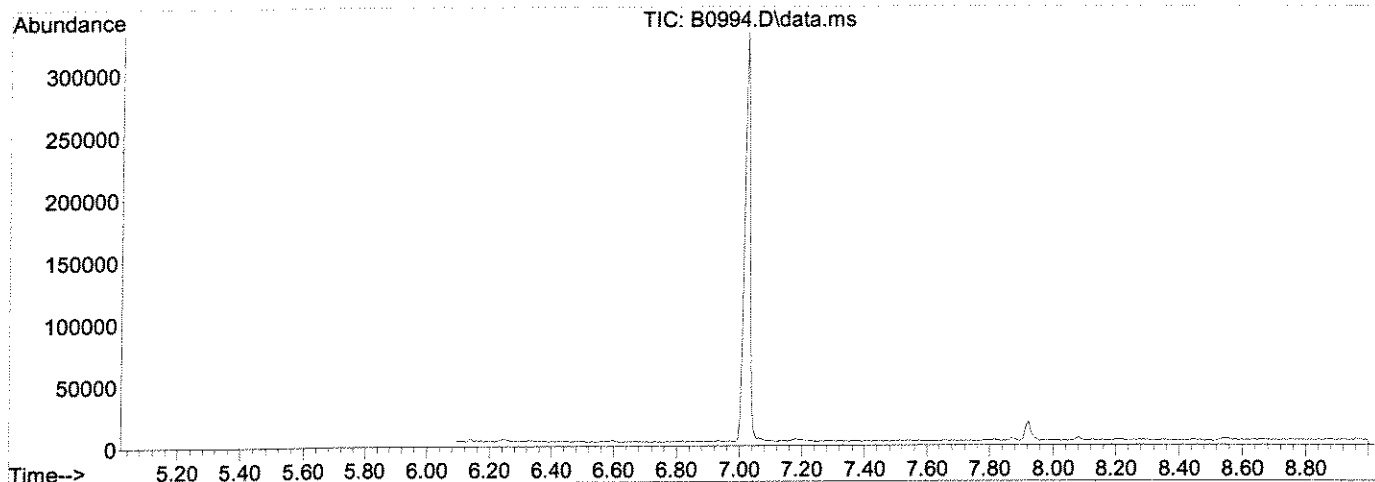
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	13491	PASS
75	95	30	60	47.4	35336	PASS
95	95	100	100	100.0	74608	PASS
96	95	5	9	5.8	4346	PASS
173	174	0.00	2	0.8	443	PASS
174	95	50	120	71.7	53464	PASS
175	174	5	9	7.1	3778	PASS
176	174	95	101	99.1	52992	PASS
177	176	5	9	6.9	3642	PASS

Data Path : J:\ACQUDATA\msvoa10\data\070908\
 Data File : B0994.D
 Acq On : 9 Jul 2008 9:24 am
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

FW 7/31/08

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 153

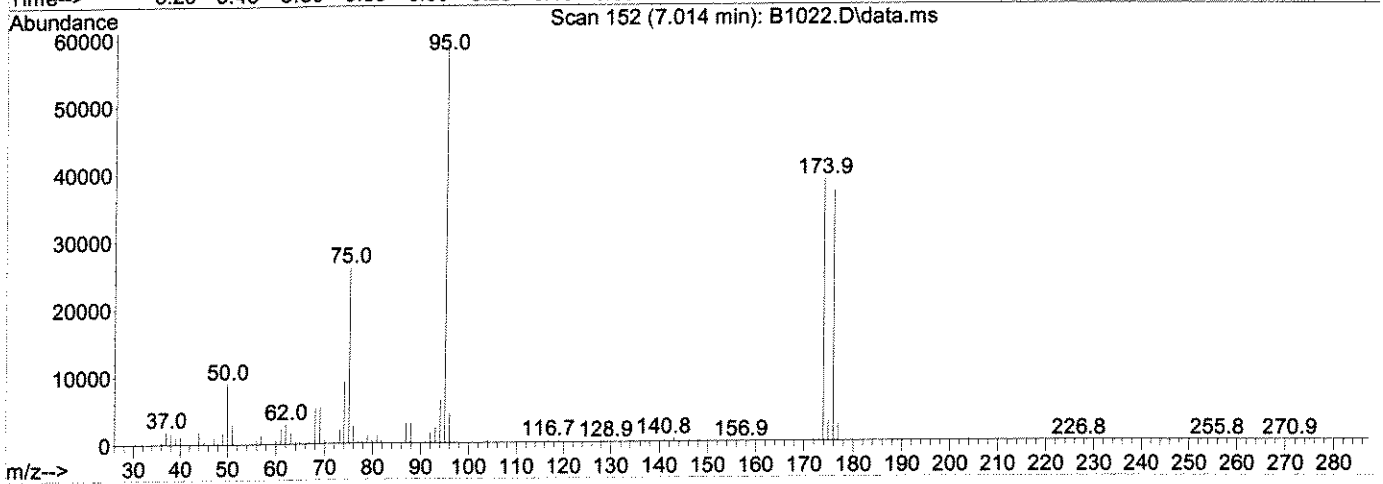
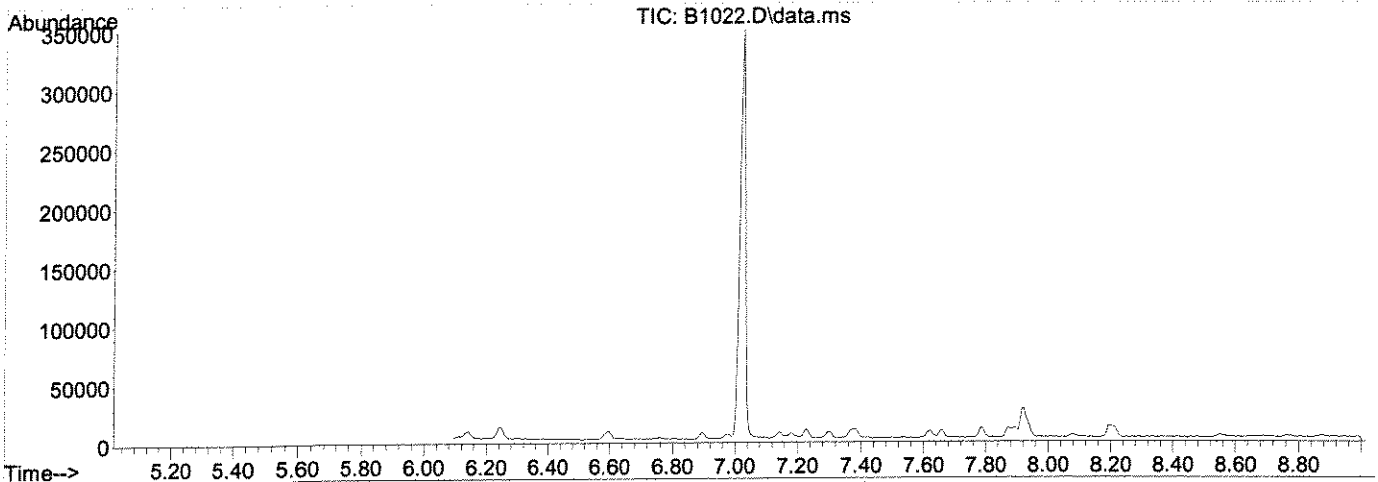
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	12753	PASS
75	95	30	60	46.8	33120	PASS
95	95	100	100	100.0	70728	PASS
96	95	5	9	5.9	4165	PASS
173	174	0.00	2	0.7	395	PASS
174	95	50	120	78.1	55240	PASS
175	174	5	9	6.1	3392	PASS
176	174	95	101	95.6	52800	PASS
177	176	5	9	7.4	3917	PASS

Data Path : J:\ACQUDATA\MSVOA10\DATA\071008\Snapshot\
 Data File : B1022.D
 Acq On : 10 Jul 2008 12:33 pm
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

FN
7/10/08

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Title : MS#10 - 8260B WATERS 10mL Purge
 Last Update : Mon Jun 30 10:06:04 2008



Spectrum Information: Scan 152

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	9002	PASS
75	95	30	60	44.7	26016	PASS
95	95	100	100	100.0	58192	PASS
96	95	5	9	7.5	4371	PASS
173	174	0.00	2	0.6	240	PASS
174	95	50	120	66.6	38776	PASS
175	174	5	9	7.7	2983	PASS
176	174	95	101	95.4	36992	PASS
177	176	5	9	6.9	2540	PASS

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1119374 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/01/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	1.1 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	100 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L
ISOPROPYLBENZENE	2.0	2.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1119374 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/01/08			
ANALYTICAL DILUTION: 1.00			
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(70 - 130 %)	105	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Sample : MBLANK
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0836.D Vial: 24
 Acq On : 1 Jul 2008 3:23 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

1119374 1.0

Quant Time: Jul 01 03:37:38 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

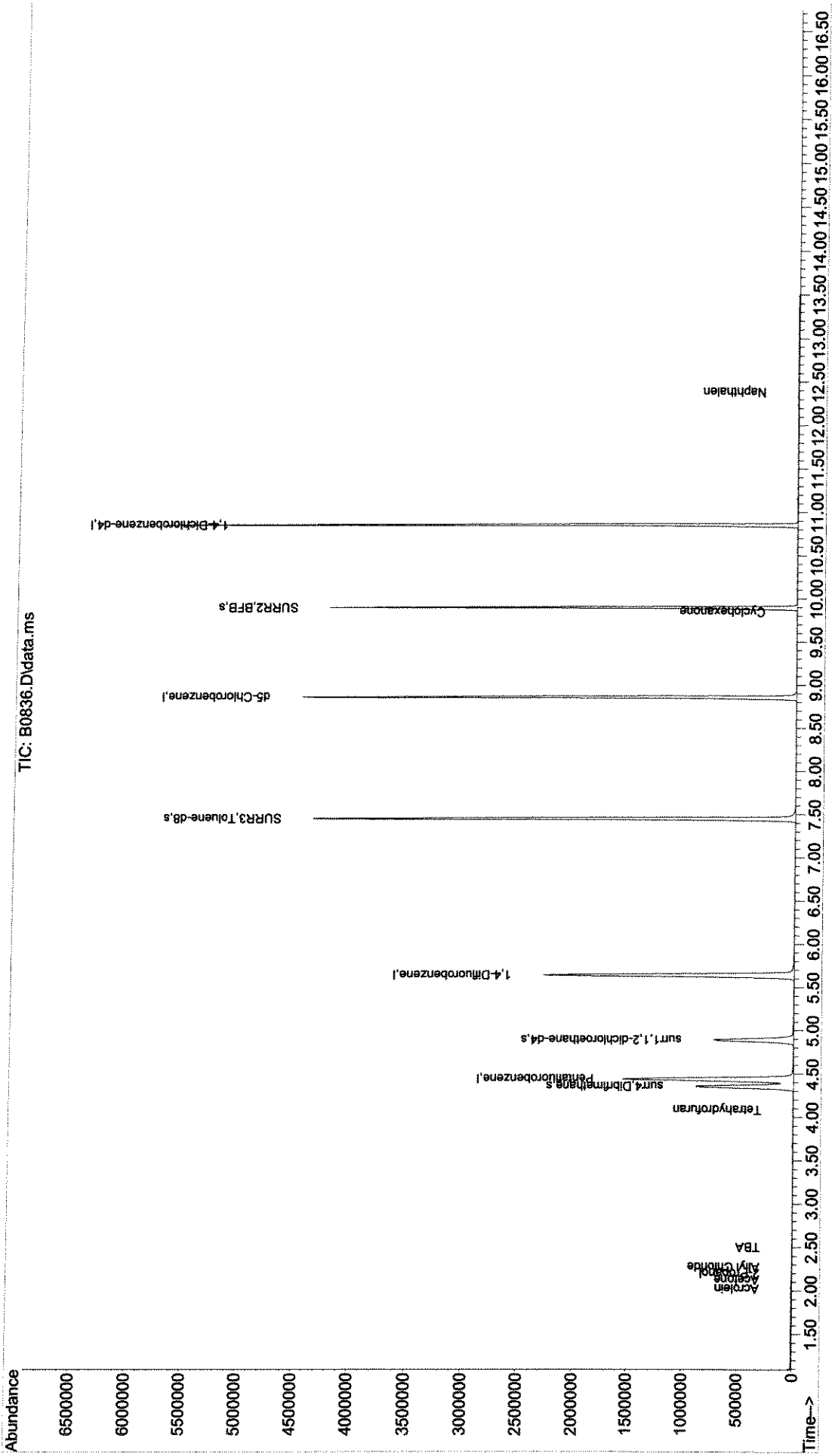
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.440	168	1422356	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	2242894	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	2032429	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1093047	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.354	113	704740	47.43	ug/L	0.00
Spiked Amount	50.000		Recovery	=	94.86%	
49) surr1,1,2-dichloroetha...	4.891	65	742533	52.67	ug/L	0.00
Spiked Amount	50.000		Recovery	=	105.34%	
65) SURR3,Toluene-d8	7.451	98	2632938	53.93	ug/L	0.00
Spiked Amount	50.000		Recovery	=	107.86%	
70) SURR2,BFB	9.896	95	1059047	52.67	ug/L	0.00
Spiked Amount	50.000		Recovery	=	105.34%	
Target Compounds						
						Qvalue
13) Acrolein	2.026	56	354	0.42	ug/L	67
16) Acetone	2.129	43	1963	1.12	ug/L	86 J
17) 2-Propanol	2.202	45	359	0.96	ug/L #	40
21) Allyl Chloride	2.276	76	2234	0.42	ug/L #	1
24) TBA	2.507	59	981	1.66	ug/L	89 LT
40) Tetrahydrofuran	4.086	42	1500	0.89	ug/L #	53
85) Cyclohexanone	9.847	55	394	0.43	ug/L	99 NT
109) Naphthalen	12.383	128	2263	0.59	ug/L #	92 CLR

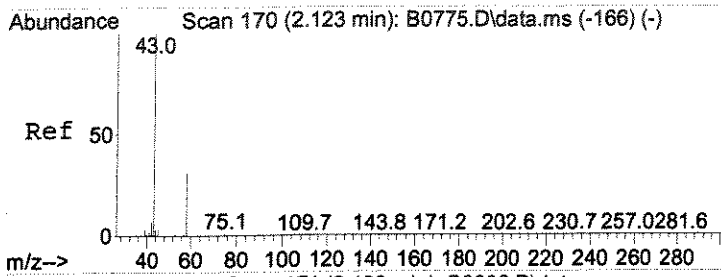
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FU
7/2/08

Sample : MBLANK
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0836.D Vial: 24
 Acq On : 1 Jul 2008 3:23 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

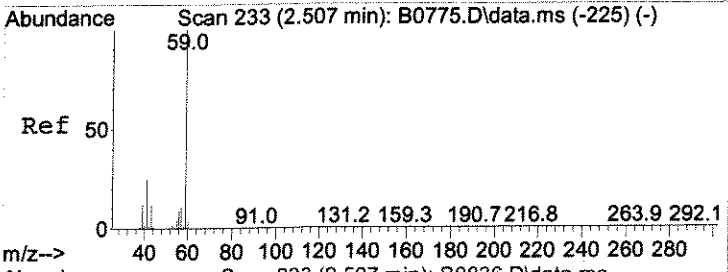
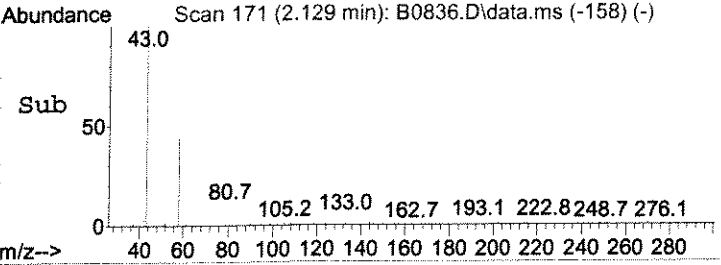
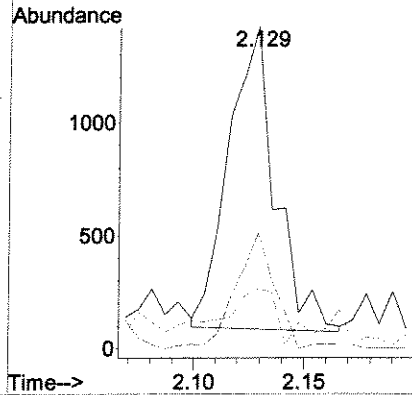
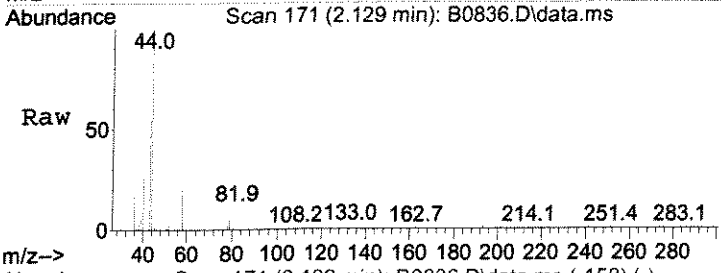
Quant Time: Jul 01 03:37:38 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





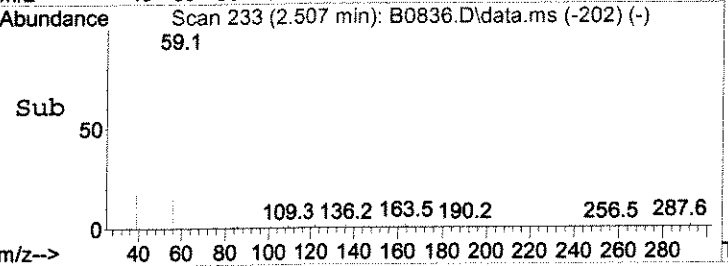
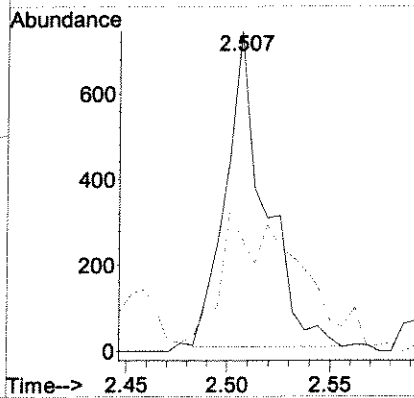
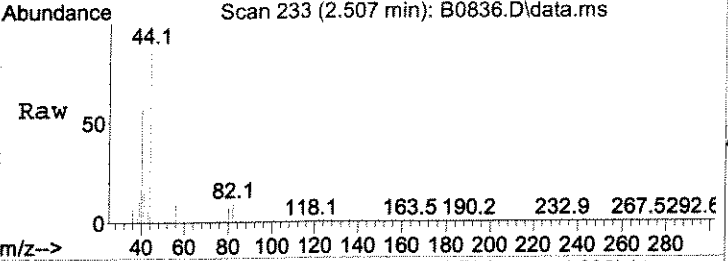
#16
 Acetone
 Concen: 1.12 ug/L
 RT: 2.129 min Scan# 171
 Delta R.T. 0.006 min
 Lab File: B0836.D
 Acq: 1 Jul 2008 3:23 am

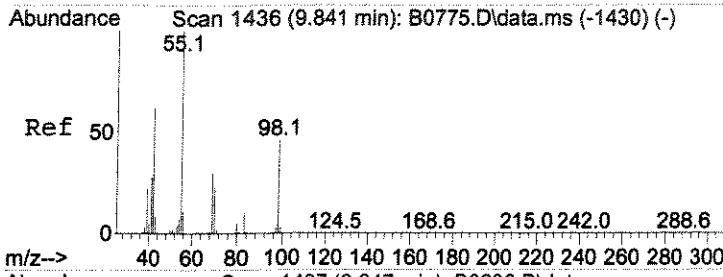
Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.2	0.9	60.9
42	18.7	0.0	37.2



#24
 TBA
 Concen: 1.66 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. -0.000 min
 Lab File: B0836.D
 Acq: 1 Jul 2008 3:23 am

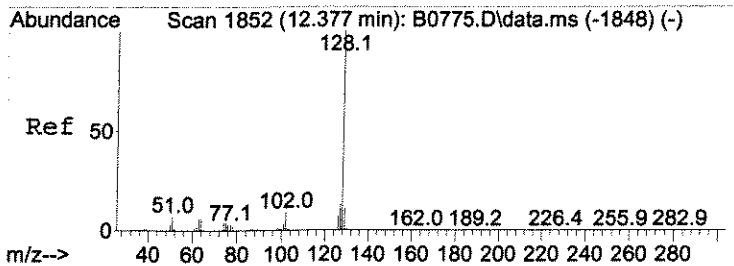
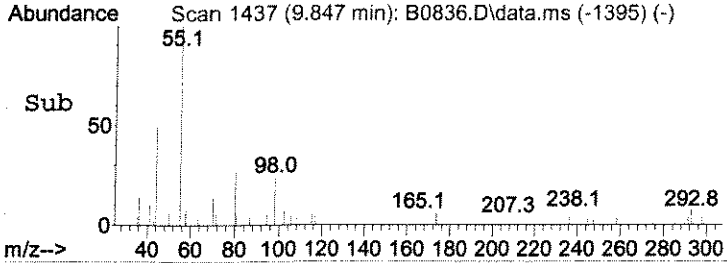
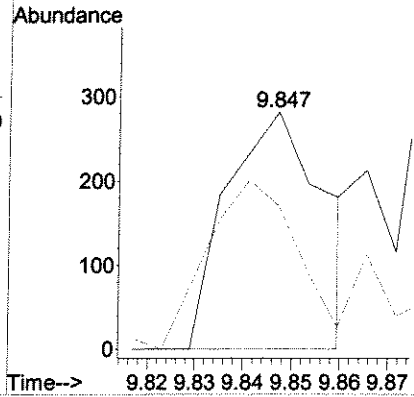
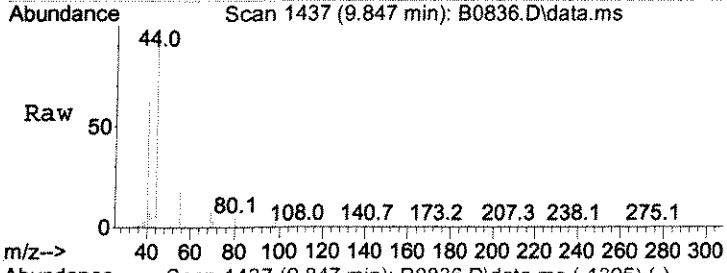
Tgt Ion	Ratio	Lower	Upper
59	100		
41	35.1	14.5	43.6





#85
 Cyclohexanone
 Concen: 0.43 ug/L
 RT: 9.847 min Scan# 1437
 Delta R.T. 0.006 min
 Lab File: B0836.D
 Acq: 1 Jul 2008 3:23 am

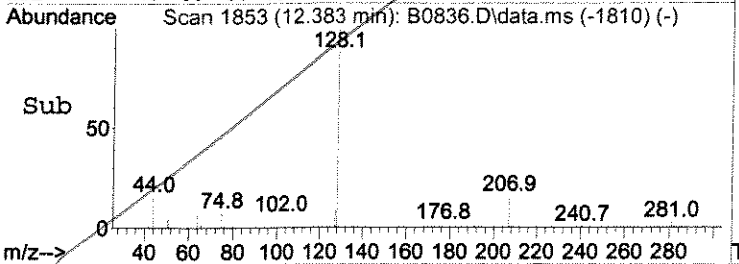
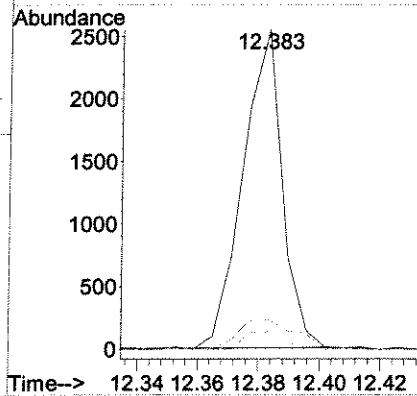
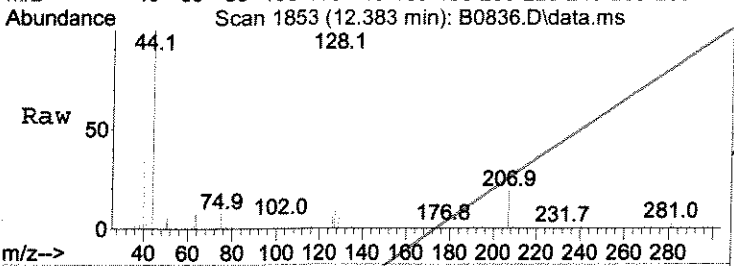
Tgt Ion	Resp	Lower	Upper
55	394		
42	60.6	49.3	73.9



#109
 Naphthalen
 Concen: 0.59 ug/L
 RT: 12.383 min Scan# 1853
 Delta R.T. 0.006 min
 Lab File: B0836.D
 Acq: 1 Jul 2008 3:23 am

FW 7/21/08

Tgt Ion	Resp	Lower	Upper
128	2263		
127	9.3	10.0	15.0#
102	5.5	6.9	10.3#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1119455 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/02/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	1.4 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	1.8 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L
ISOPROPYLBENZENE	2.0	2.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1119455 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/02/08			
ANALYTICAL DILUTION: 1.00			
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	104	%
TOLUENE-D8	(70 - 130 %)	107	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Sample : MBLANK
 Data File : J:\ACQUDATA\MSVOA10\DATA\070208\B0881.D Vial: 2
 Acq On : 2 Jul 2008 3:38 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FU
7/1/08

1119455 1.0

Quant Time: Jul 02 15:53:10 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1400876	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2235162	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.854	117	2035015	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1091017	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	704970	47.67	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	95.34%		
49) surr1,1,2-dichloroetha...	4.891	65	733827	52.23	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	104.46%		
65) SURR3,Toluene-d8	7.445	98	2596379	53.36	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	106.72%		
70) SURR2,BFB	9.896	95	1046586	52.23	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	104.46%		
Target Compounds							
16) Acetone	2.123	43	2389	1.38	ug/L	93	J
17) 2-Propanol	2.203	45	188	0.51	ug/L #	1	
21) Allyl Chloride	2.276	76	1935	0.37	ug/L #	1	
24) TBA	2.501	59	1674 721	1.81 1.24	ug/L	77	J
40) Tetrahydrofuran	4.086	42	812	0.49	ug/L #	54	JNT
85) Cyclohexanone	9.847	55	518	0.56	ug/L #	58	JNT
109) Naphthalen	12.383	120	1748	0.58	ug/L #	94	J < LR

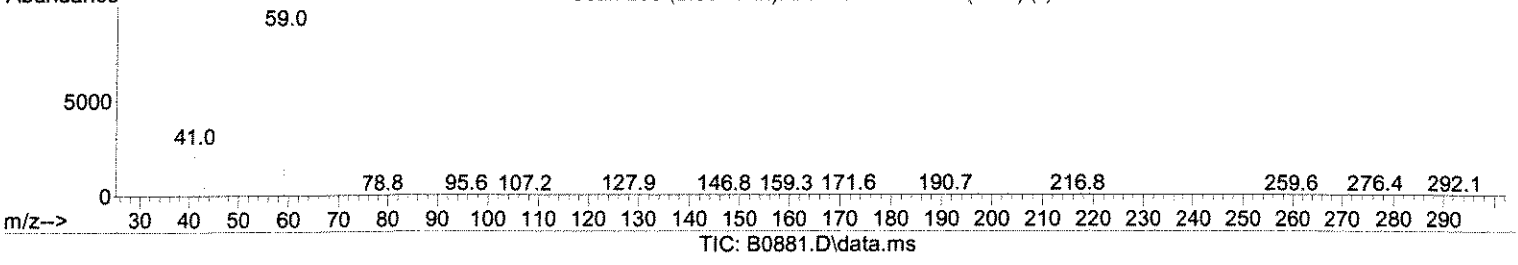
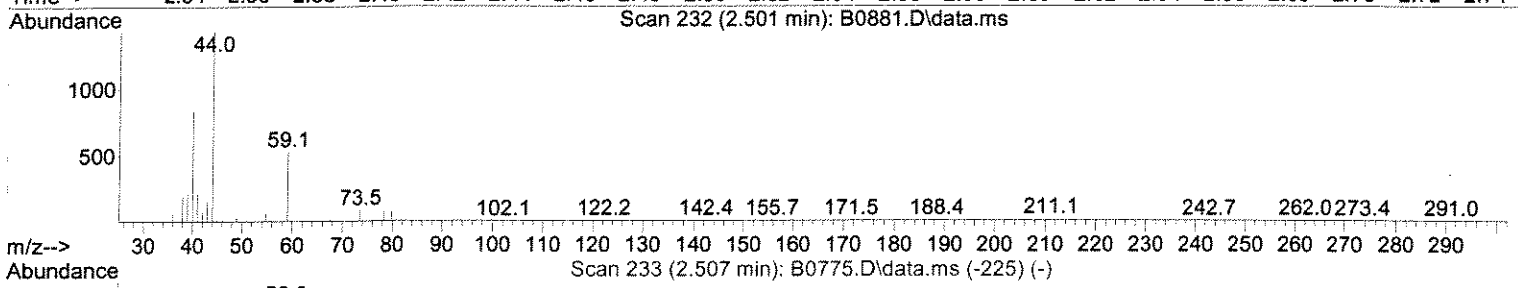
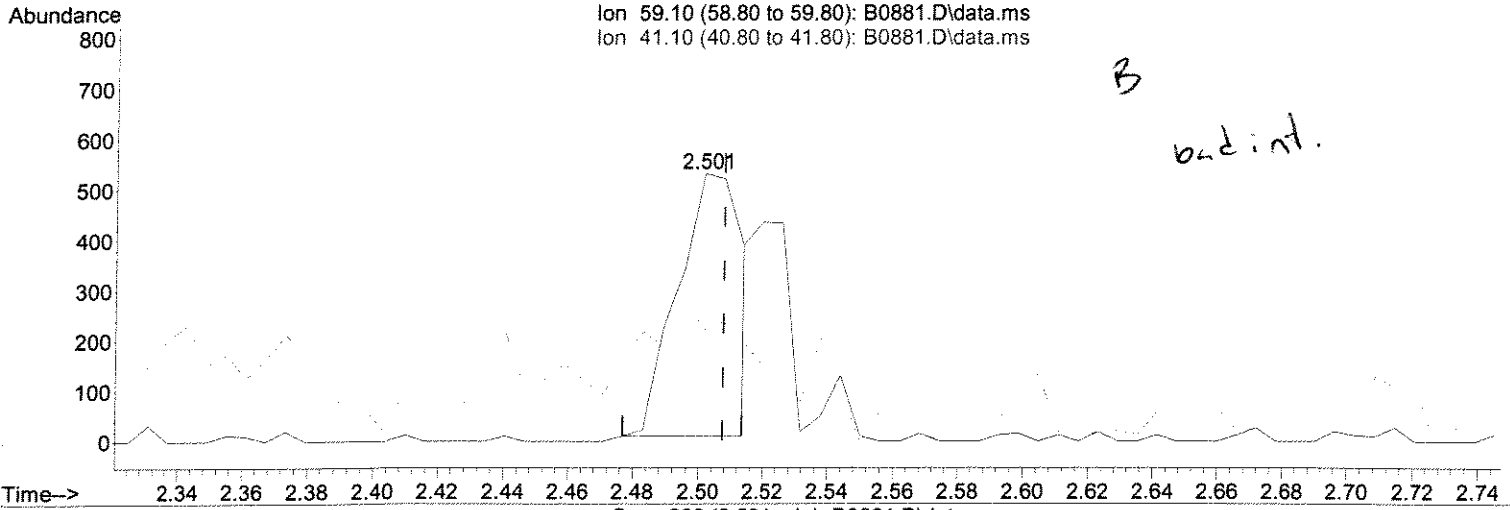
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Sample : MBLANK
 Data File : J:\ACQUDATA\msvoa10\data\070208\B0881.D Vial: 2
 Acq On : 2 Jul 2008 3:38 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 02 15:53:10 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FW 7/7/08



(24) TBA

2.501min (-0.006) 1.24 ug/L

response 721

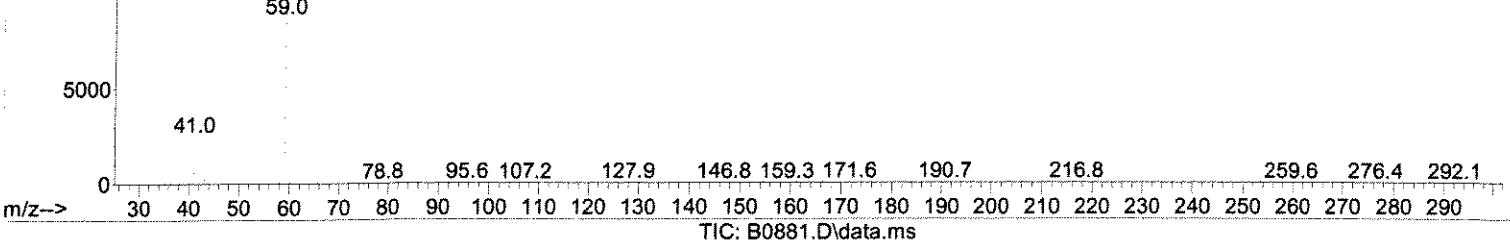
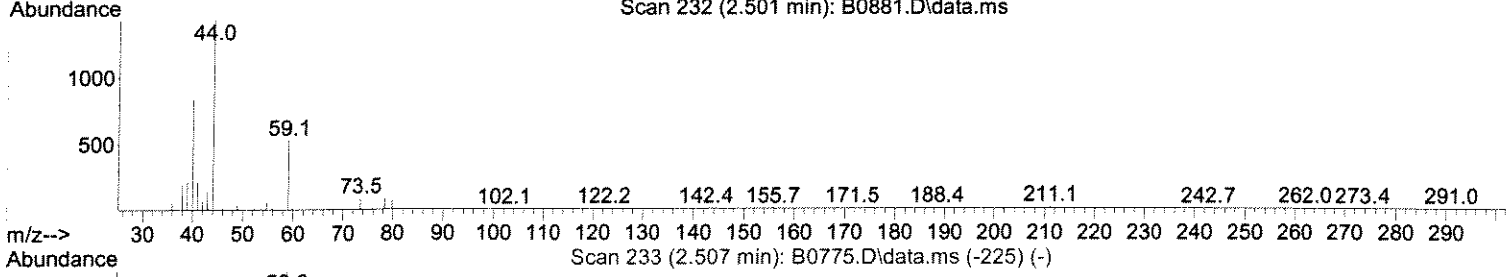
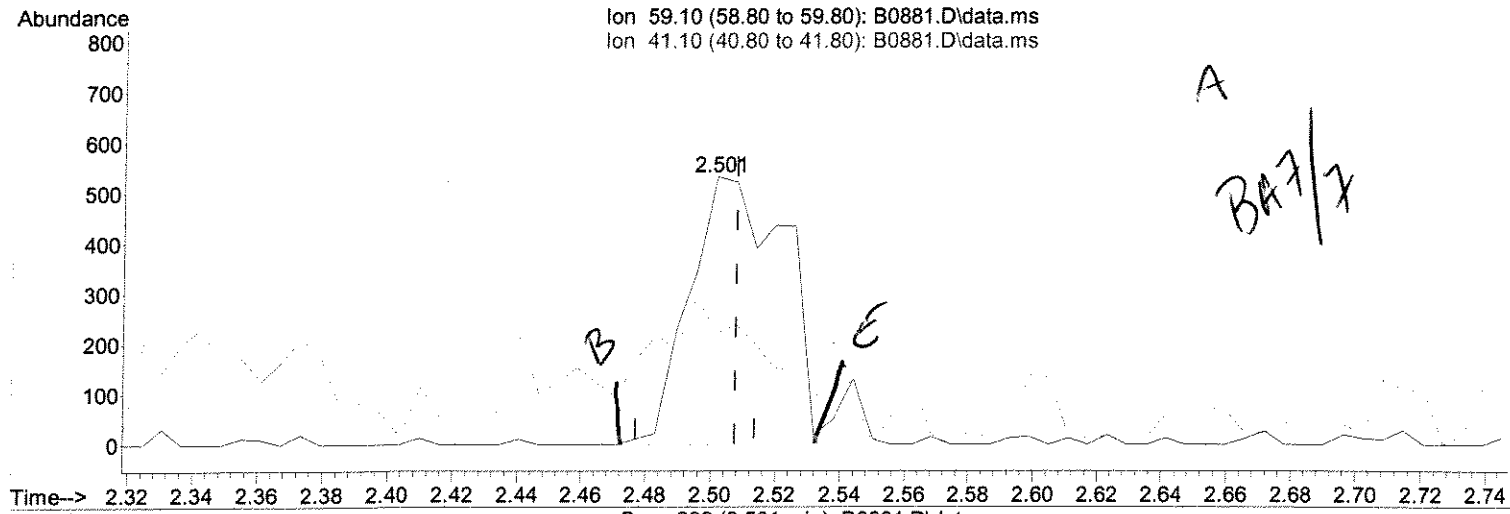
Ion	Exp%	Act%
59.10	100	100
41.10	29.10	41.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : MBLANK
Data File : J:\ACQUDATA\msvoa10\data\070208\B0881.D Vial: 2
Acq On : 2 Jul 2008 3:38 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 02 15:53:10 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Handwritten notes: 'A', 'BA 7/7', '7/7/08'



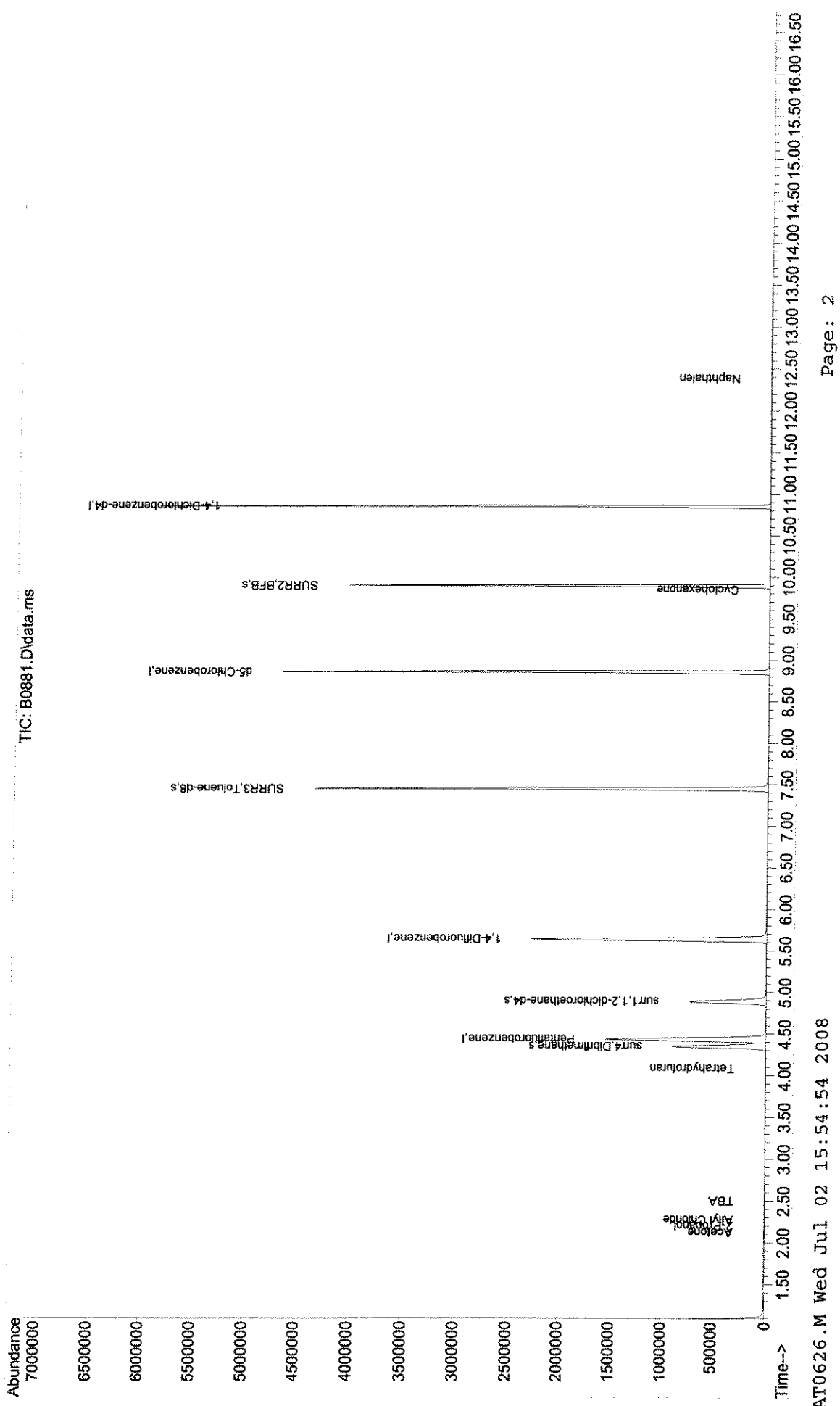
(24) TBA

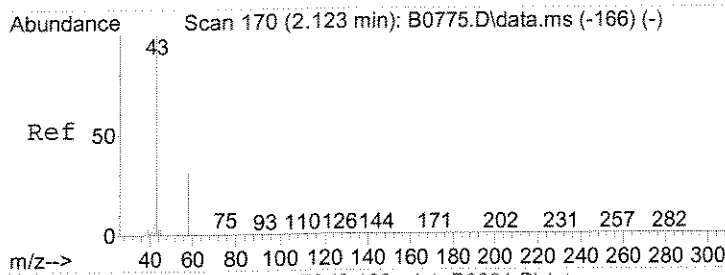
2.501min (-0.006) 1.84 ug/L m

response 1074

Table with 3 columns: Ion, Exp%, Act%. Rows show data for ions 59.10, 41.10, and 0.00.

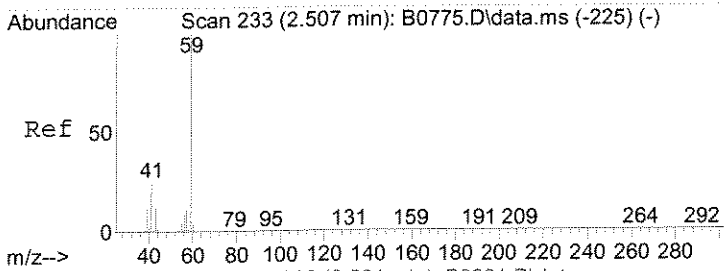
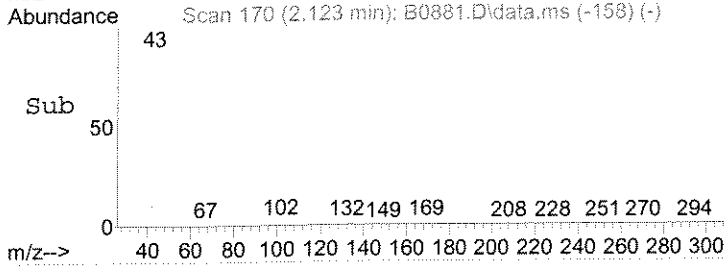
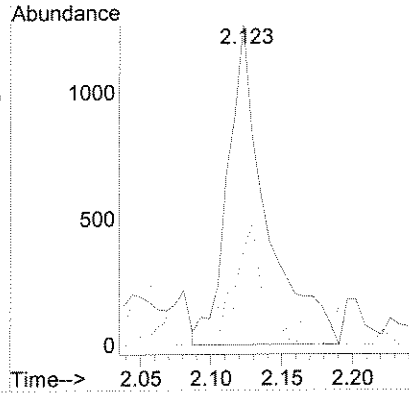
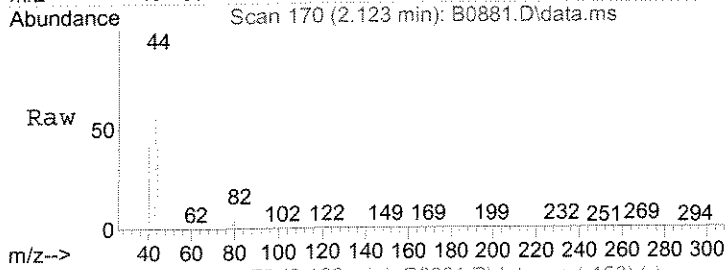
Sample : MBLANK
 Data File : J:\ACQDATA\MSVOA10\DATA\070208\B0881.D Vial: 2
 Acq On : 2 Jul 2008 3:38 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :
 Quant Time: Jul 02 15:53:10 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





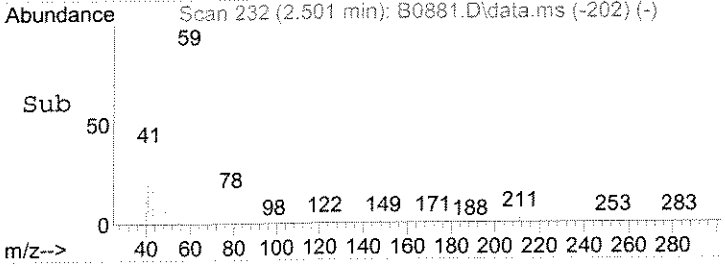
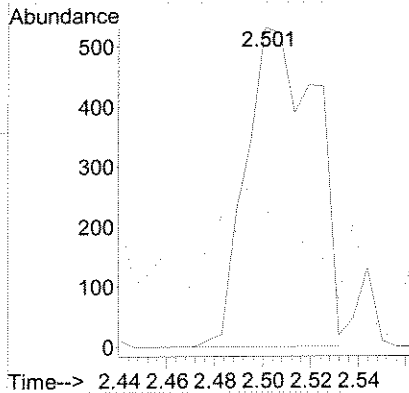
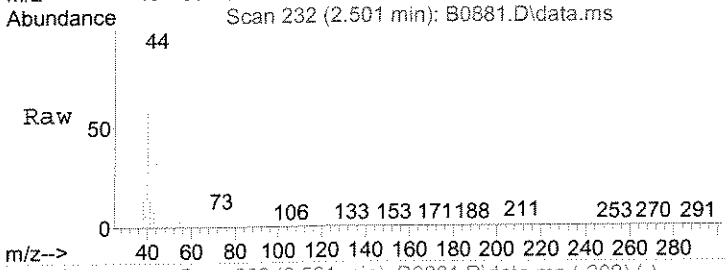
#16
 Acetone
 Concen: 1.38 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B0881.D
 Acq: 2 Jul 2008 3:38 pm

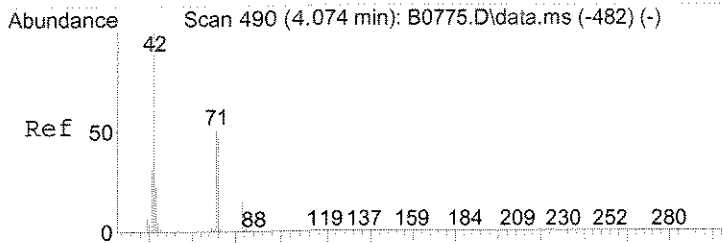
Tgt Ion	Resp	Lower	Upper
43	100		
58	29.9	0.9	60.9
42	18.0	0.0	37.2



#24
 TBA
 Concen: 1.84 ug/L m
 RT: 2.501 min Scan# 232
 Delta R.T. -0.006 min
 Lab File: B0881.D
 Acq: 2 Jul 2008 3:38 pm

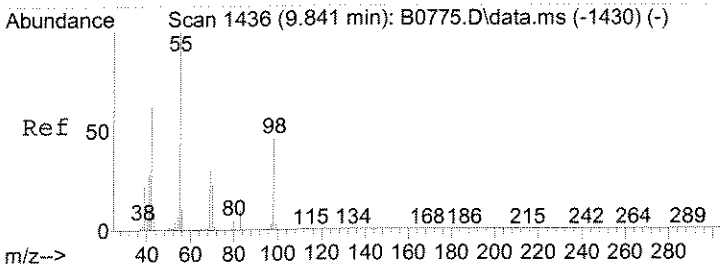
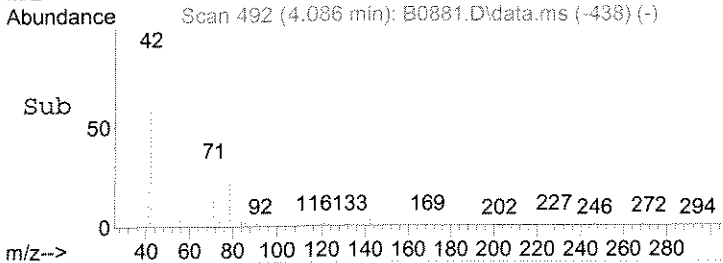
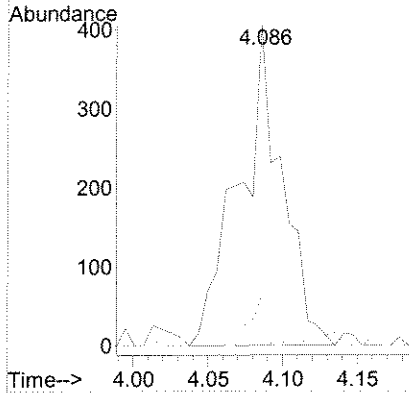
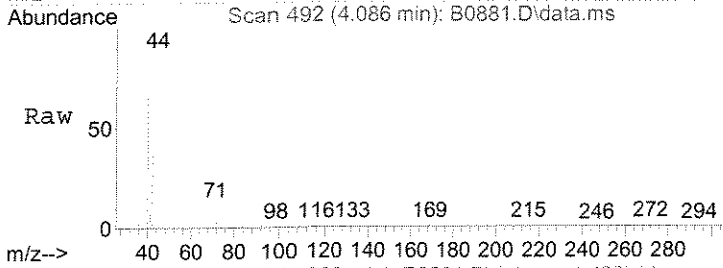
Tgt Ion	Resp	Lower	Upper
59	100		
41	41.5	14.5	43.6





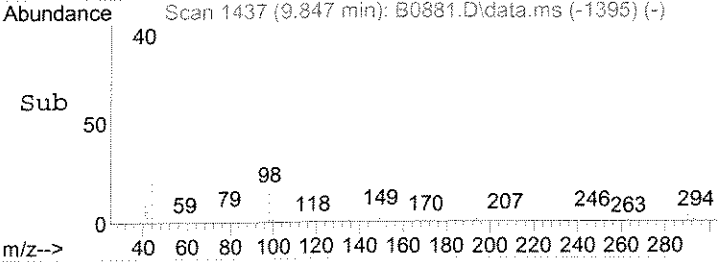
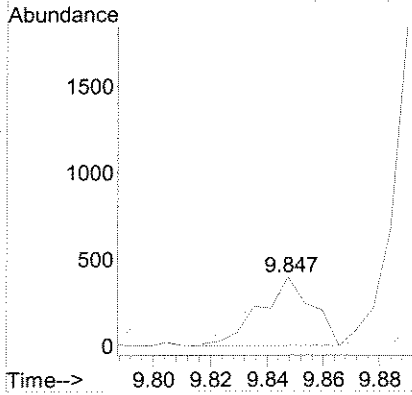
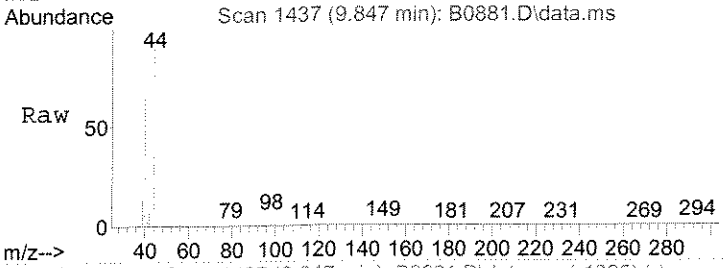
#40
 Tetrahydrofuran
 Concen: 0.49 ug/L
 RT: 4.086 min Scan# 492
 Delta R.T. 0.012 min
 Lab File: B0881.D
 Acq: 2 Jul 2008 3:38 pm

Tgt Ion	Resp	Lower	Upper
42	100		
72	16.0	37.4	56.2#



#85
 Cyclohexanone
 Concen: 0.56 ug/L m
 RT: 9.847 min Scan# 1437
 Delta R.T. 0.006 min
 Lab File: B0881.D
 Acq: 2 Jul 2008 3:38 pm

Tgt Ion	Resp	Lower	Upper
55	100		
42	29.2	49.3	73.9#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1119492 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	1.9 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L
ISOPROPYLBENZENE	2.0	2.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1119492 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Sample : MBLK
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0903.D Vial: 2
 Acq On : 3 Jul 2008 1:13 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : 1119492 1.0

Quant Time: Jul 03 13:27:42 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

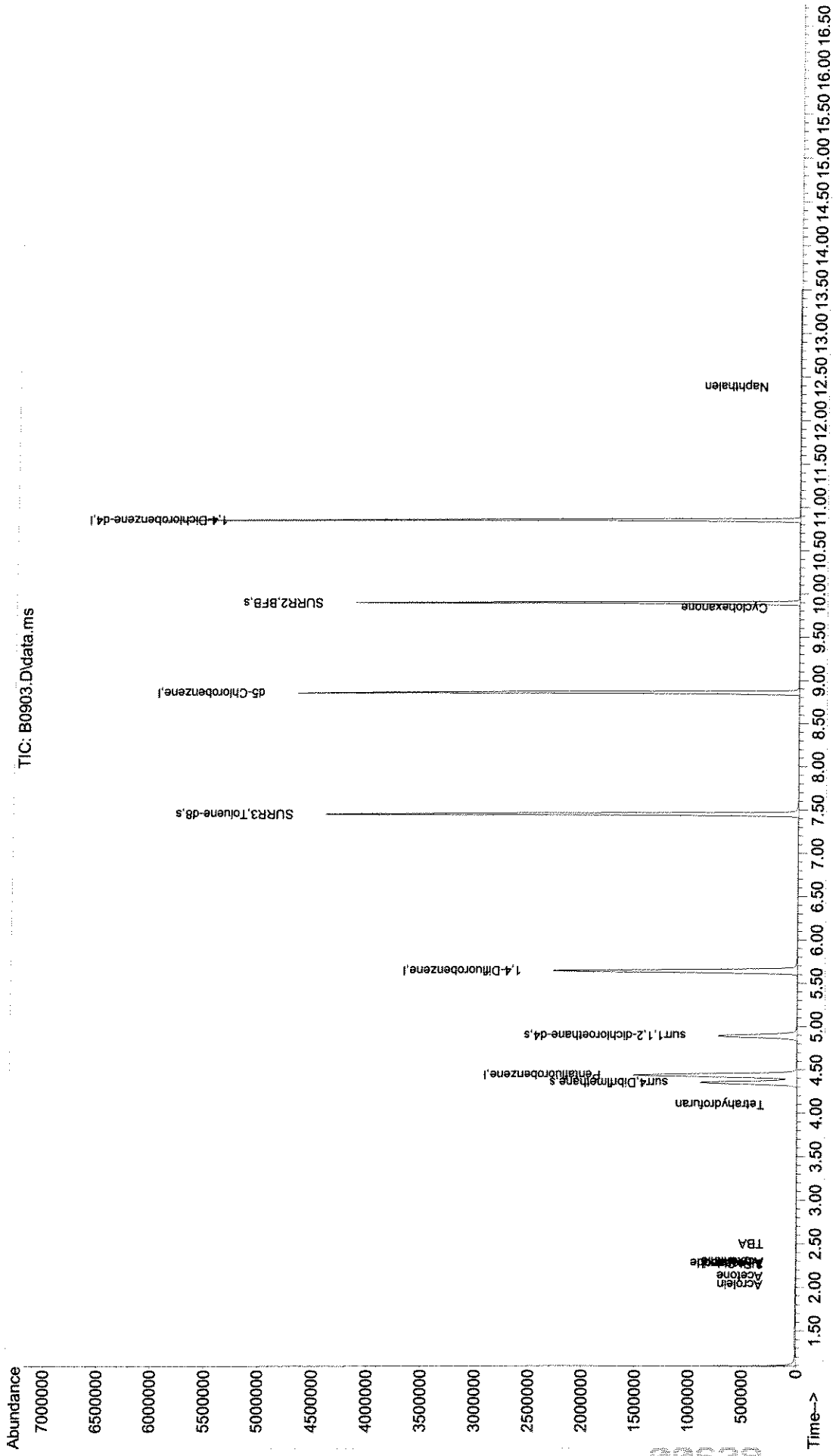
Internal Standards							
1) Pentafluorobenzene	4.434	168	1384840	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2245574	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.854	117	2061636	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1101343	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	707816	47.63	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	95.26%		
49) surr1,1,2-dichloroetha...	4.891	65	739653	52.40	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	104.80%		
65) SURR3,Toluene-d8	7.451	98	2638517	53.98	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.96%		
70) SURR2,BFB	9.896	95	1062458	52.78	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	105.56%		
Target Compounds							
							Qvalue
13) Acrolein	2.032	56	200	0.24	ug/L	77	
16) Acetone	2.129	43	1477	0.86	ug/L	96	LT
17) 2-Propanol	2.270	45	184	0.51	ug/L #	1	
20) Acetonitrile	2.294	40	564	2.36	ug/L #	1	
21) Allyl Chloride	2.276	76	2085	0.40	ug/L #	1	
24) TBA	2.501	59	1077	1.87	ug/L #	67	J
40) Tetrahydrofuran	4.098	42	560	0.34	ug/L #	30	
85) Cyclohexanone	9.835	55	333	0.36	ug/L #	78	NT
109) Naphthalen	12.383	128	1813	0.58	ug/L #	93	CLR

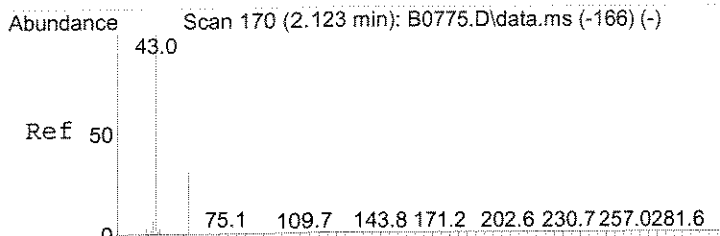
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FJ
7/1/08

Sample : MBLK
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0903.D Vial: 2
 Acq On : 3 Jul 2008 1:13 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

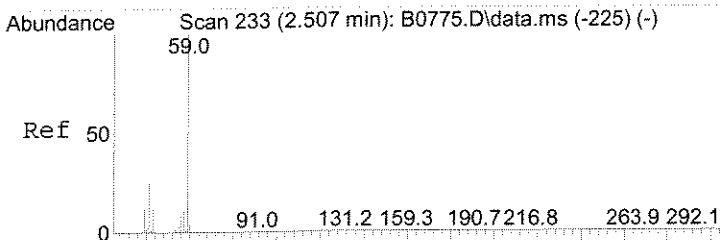
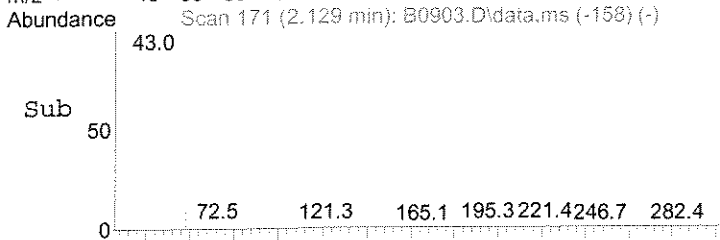
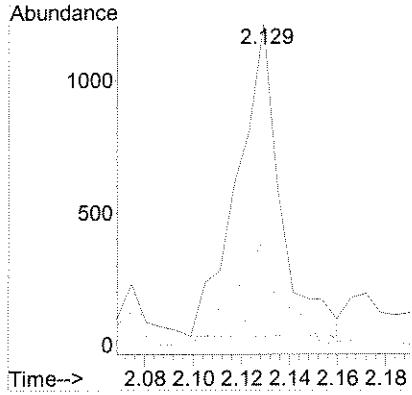
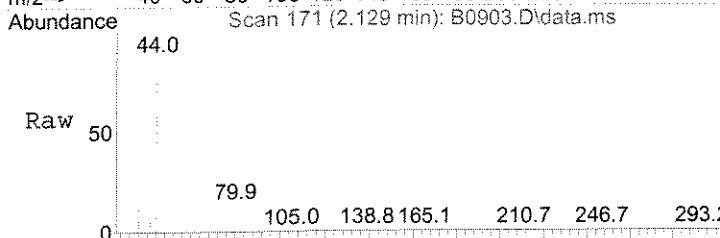
Quant Time: Jul 03 13:27:42 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 Qlast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





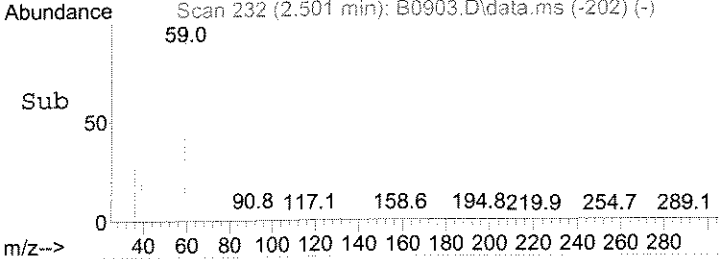
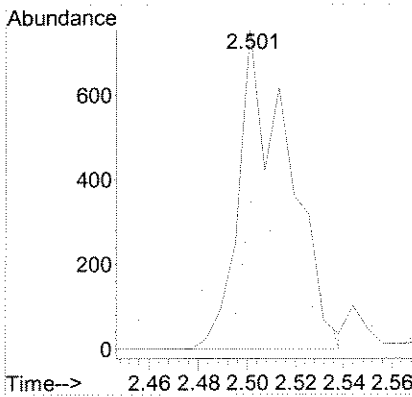
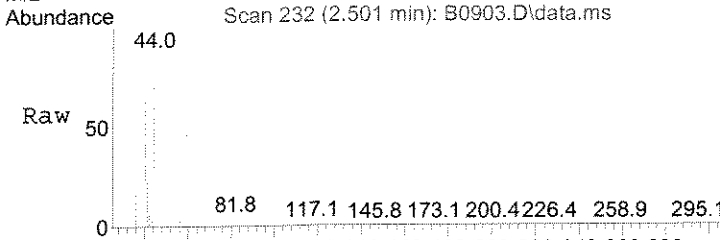
#16
 Acetone
 Concen: 0.86 ug/L
 RT: 2.129 min Scan# 171
 Delta R.T. 0.006 min
 Lab File: B0903.D
 Acq: 3 Jul 2008 1:13 pm

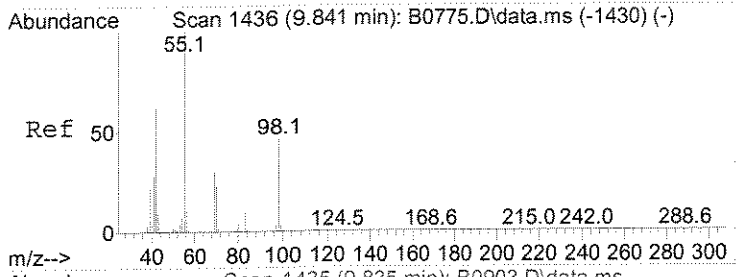
Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.9	0.9	60.9
42	9.3	0.0	37.2



#24
 TBA
 Concen: 1.87 ug/L
 RT: 2.501 min Scan# 232
 Delta R.T. -0.006 min
 Lab File: B0903.D
 Acq: 3 Jul 2008 1:13 pm

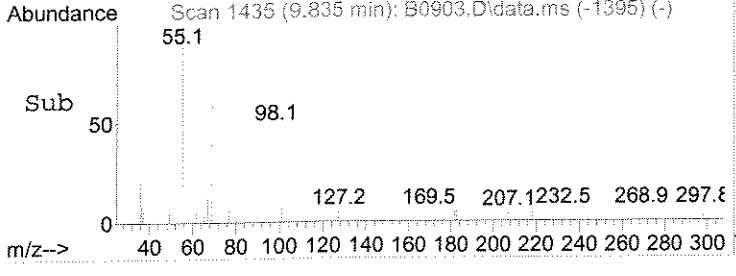
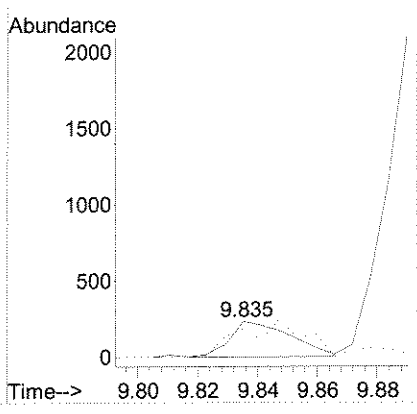
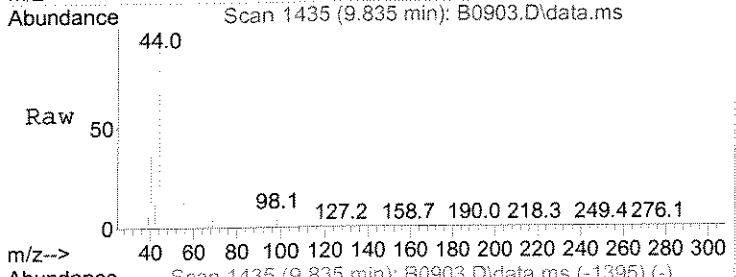
Tgt Ion	Ratio	Lower	Upper
59	100		
41	46.5	14.5	43.6#





#85
 Cyclohexanone
 Concen: 0.36 ug/L
 RT: 9.835 min Scan# 1435
 Delta R.T. -0.006 min
 Lab File: B0903.D
 Acq: 3 Jul 2008 1:13 pm

Tgt Ion	Resp	Lower	Upper
55	100		
42	78.5	49.3	73.9#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1119512 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/09/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	2.0 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L
ISOPROPYLBENZENE	2.0	2.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1119512 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/09/08			
ANALYTICAL DILUTION: 1.00			
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	109	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Sample : MBLK
 Data File : J:\ACQUDATA\MSVOA10\DATA\070908\B0998.D Vial: 2
 Acq On : 9 Jul 2008 12:39 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

1119512 1.0

DoDo

Quant Time: Jul 09 12:54:12 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1365928	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2236322	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2101967	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1124564	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	705595	47.70	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	95.40%		
49) surr1,1,2-dichloroetha...	4.891	65	731569	52.04	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	104.08%		
65) SURR3,Toluene-d8	7.445	98	2655873	54.56	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.12%		
70) SURR2,BFB	9.896	95	1091180	54.43	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.86%		
Target Compounds							
16) Acetone	2.123	43	988	0.59	ug/L	89	LT
17) 2-Propanol	2.203	45	267	0.75	ug/L	97	LT
21) Allyl Chloride	2.276	76	2170	0.42	ug/L #	1	NT
24) TBA	2.507	59	1112	1.96	ug/L #	55	J
85) Cyclohexanone	9.841	55	692	0.73	ug/L	89	LT NT
109) Naphthalen	12.384	128	2550	0.60	ug/L #	77	CLR

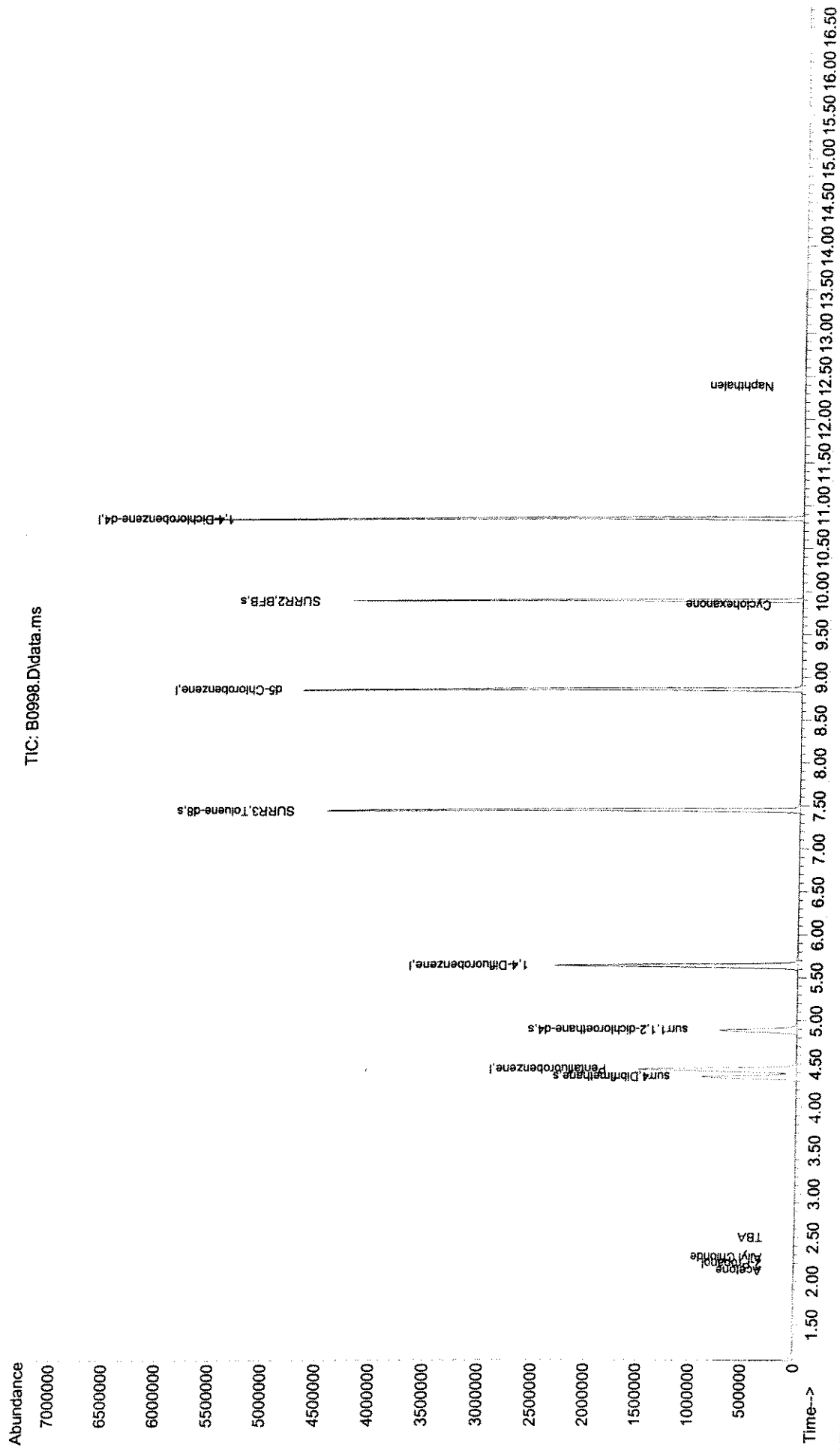
for 7/10/08

(#) = qualifier out of range (m) = manual integration (+) = signals summed

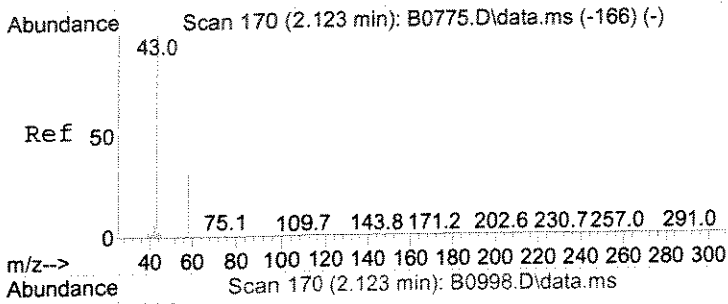
FJ
7/10/08

Sample : MBLK
 Data File : J:\ACQDATA\MSVOA10\DATA\070908\B0998.D
 Acq On : 9 Jul 2008 12:39 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 09 12:54:12 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

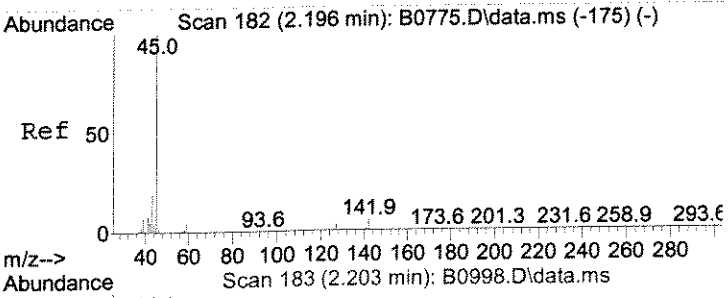
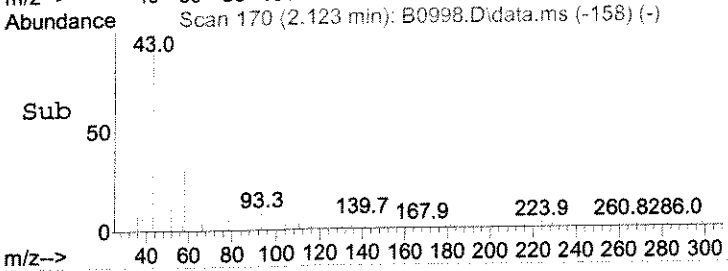
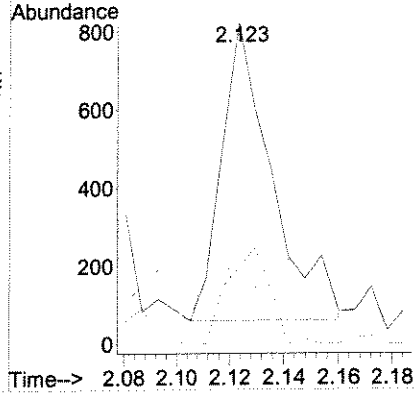
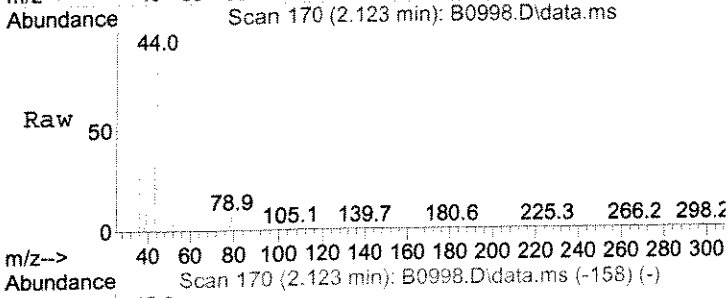


00635



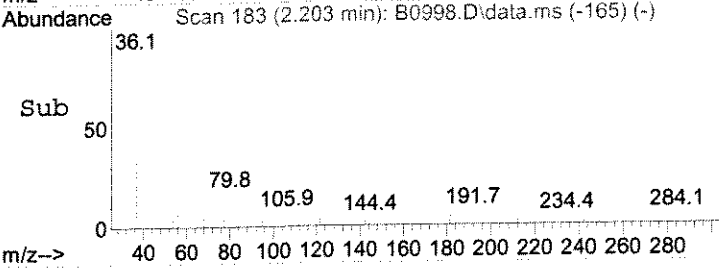
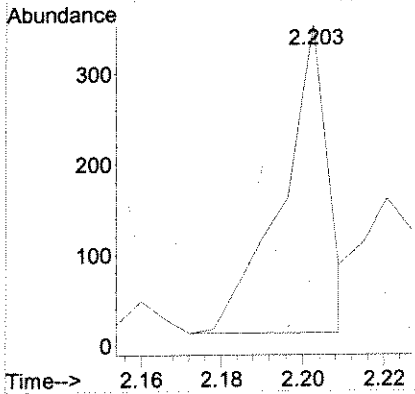
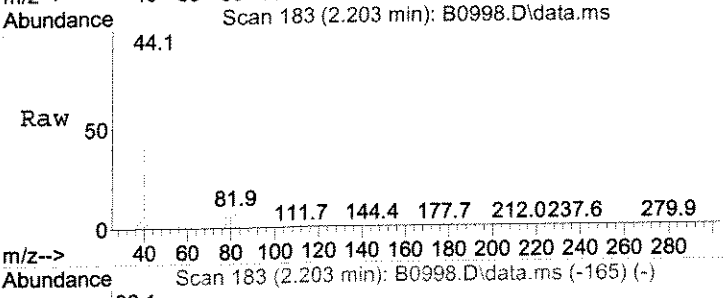
#16
 Acetone
 Concen: 0.59 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. 0.000 min
 Lab File: B0998.D
 Acq: 9 Jul 2008 12:39 pm

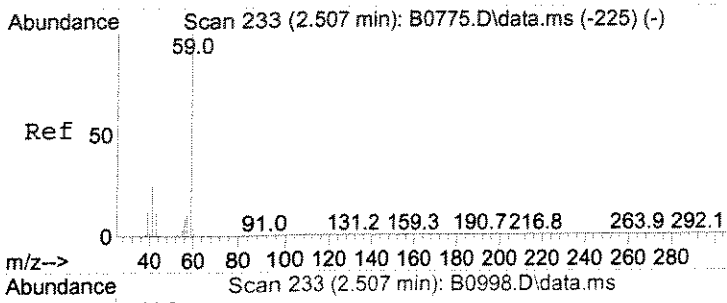
Tgt Ion	Resp	Lower	Upper
43	100		
58	24.0	0.9	60.9
42	8.9	0.0	37.2



#17
 2-Propanol
 Concen: 0.75 ug/L
 RT: 2.203 min Scan# 183
 Delta R.T. 0.000 min
 Lab File: B0998.D
 Acq: 9 Jul 2008 12:39 pm

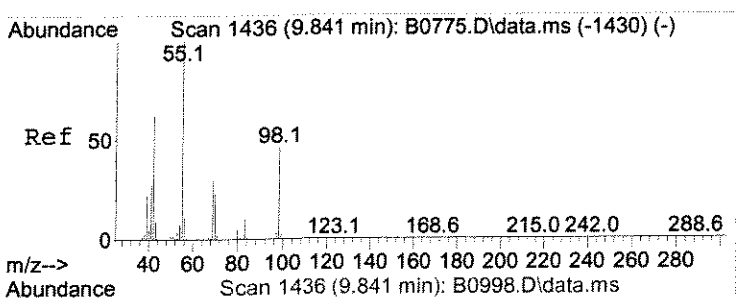
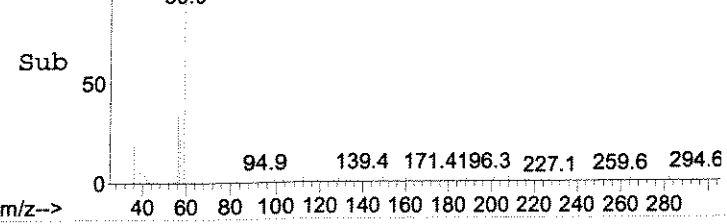
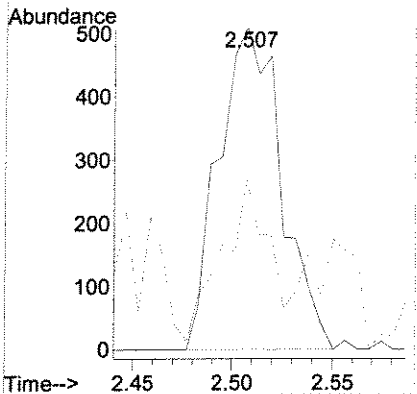
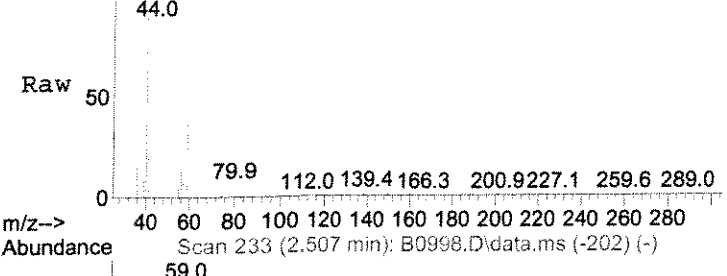
Tgt Ion	Resp	Lower	Upper
45	100		
43	22.7	17.0	25.4





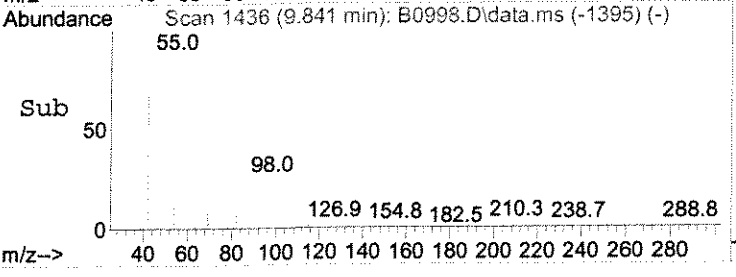
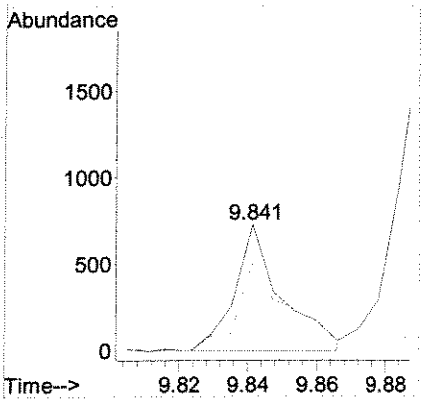
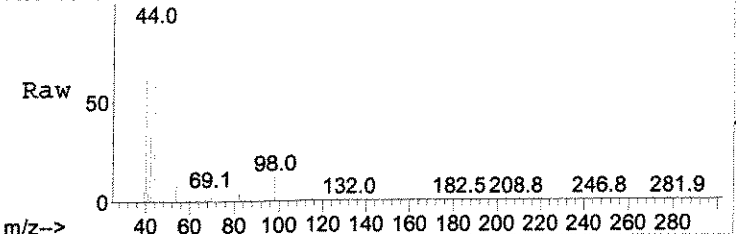
#24
 TBA
 Concen: 1.96 ug/L
 RT: 2.507 min Scan# 233
 Delta R.T. 0.000 min
 Lab File: B0998.D
 Acq: 9 Jul 2008 12:39 pm

Tgt Ion	Resp	Ion Ratio	Lower	Upper
59	100			
41	53.1		14.5	43.6#



#85
 Cyclohexanone
 Concen: 0.73 ug/L
 RT: 9.841 min Scan# 1436
 Delta R.T. 0.000 min
 Lab File: B0998.D
 Acq: 9 Jul 2008 12:39 pm

Tgt Ion	Resp	Ion Ratio	Lower	Upper
55	100			
42	70.3		49.3	73.9



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 07/25/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1119770 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/10/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	100 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L
ISOPROPYLBENZENE	2.0	2.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1119770 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/10/08			
ANALYTICAL DILUTION: 1.00			
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(70 - 130 %)	108	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	93	%

Sample : MBLK
 Data File : J:\ACQUDATA\MSVOA10\DATA\071008\B1026.D Vial: 2
 Acq On : 10 Jul 2008 2:41 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

1119770 1.0

DODD

Quant Time: Jul 10 14:55:54 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

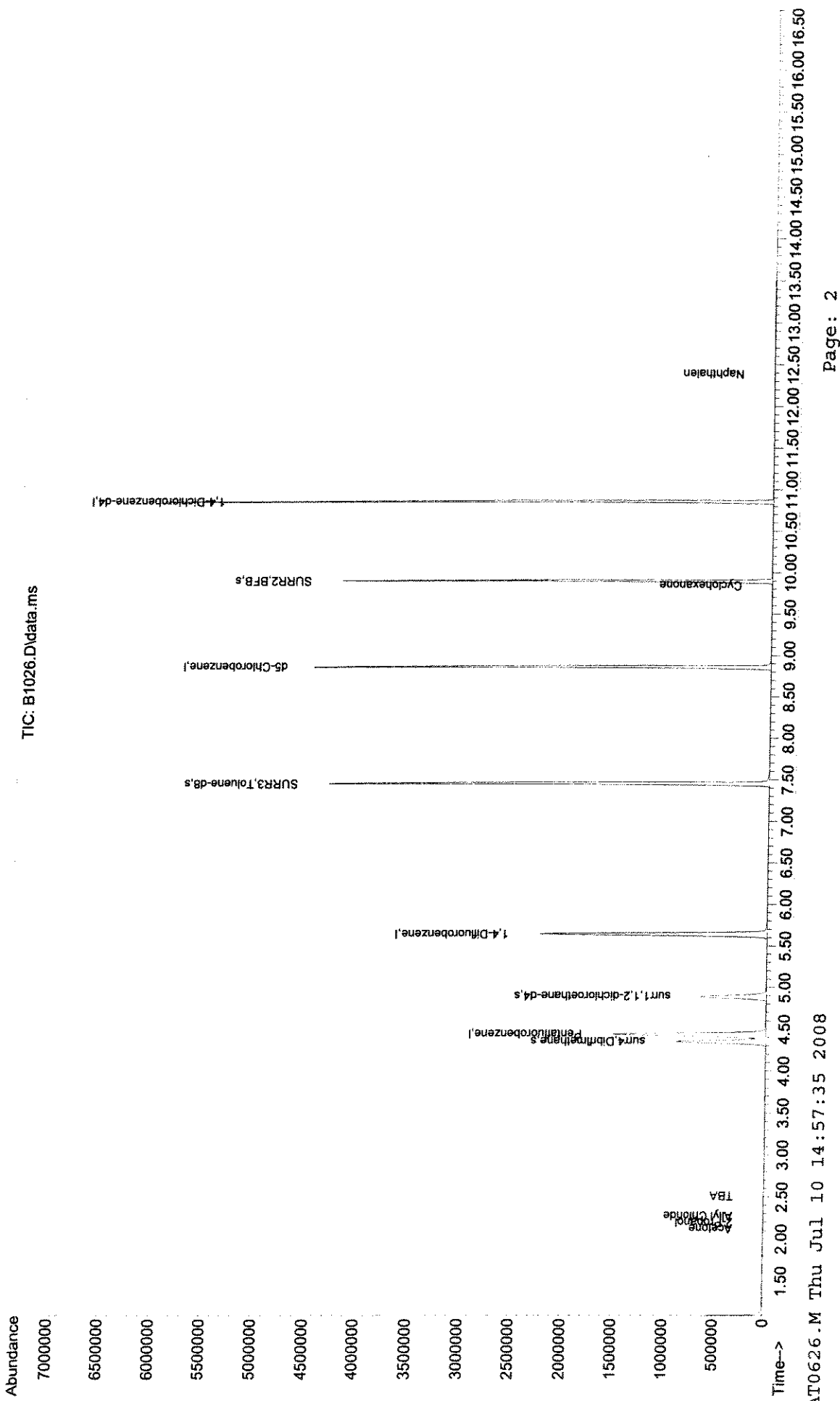
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1417516	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2299055	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2171582	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1171369	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	711015	46.43	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	92.86%		
49) surr1,1,2-dichloroetha...	4.891	65	654072	45.26	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	90.52%		
65) SURR3,Toluene-d8	7.445	98	2716995	54.29	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.58%		
70) SURR2,BFB	9.896	95	1111752	53.94	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.88%		
Target Compounds							
16) Acetone	2.123	43	1404	0.80	ug/L		75 LT
17) 2-Propanol	2.196	45	250	0.67	ug/L	#	1
21) Allyl Chloride	2.276	76	1955	0.37	ug/L	#	1
24) TBA	2.513	59	944	1.60	ug/L		88
85) Cyclohexanone	9.841	55	578	0.59	ug/L		89
109) Naphthalen	12.303	120	2054	0.58	ug/L	#	92 <LR

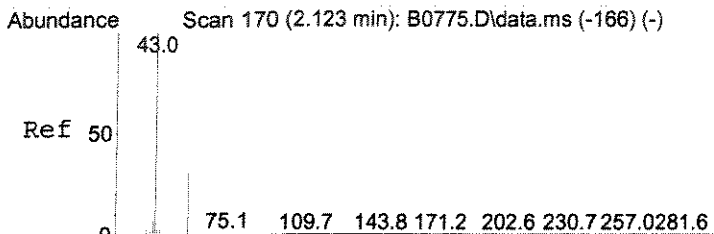
LT
 NOT (DEC)
 NT
 FN 7/10/08

(#) = qualifier out of range (m) = manual integration (+) = signals summed

FN
 7/16/08

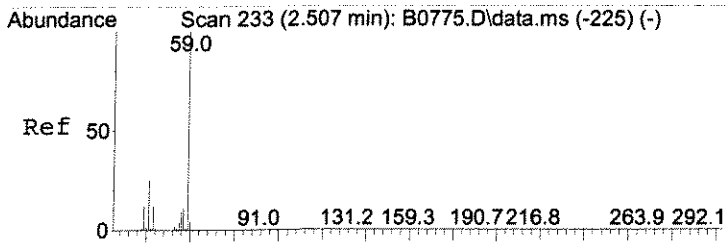
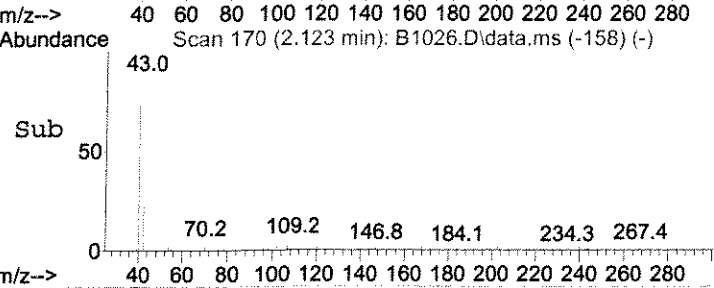
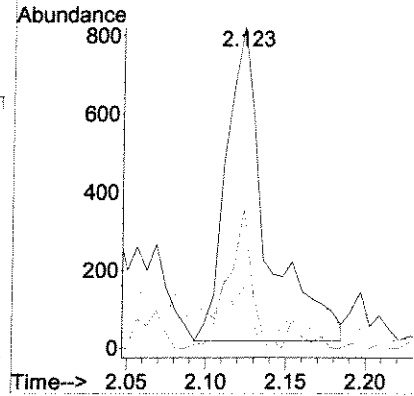
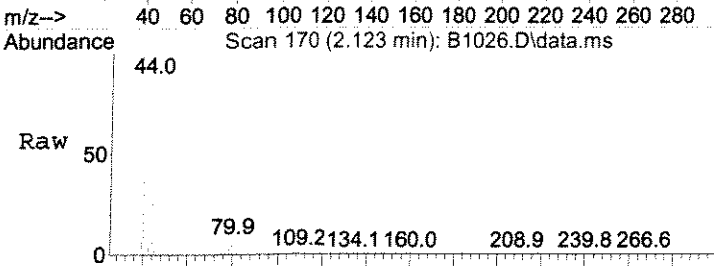
Sample : MBLK
 Data File : J:\ACQDATA\MSVOA10\DATA\071008\BI026.D
 Vial: 2
 Acq On : 10 Jul 2008 2:41 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :
 Quant Time: Jul 10 14:55:54 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration





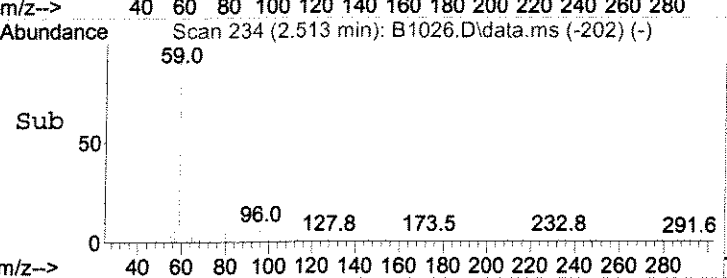
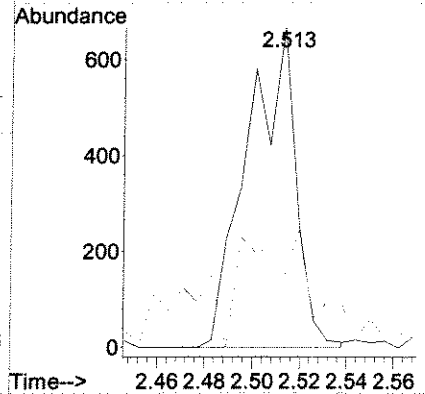
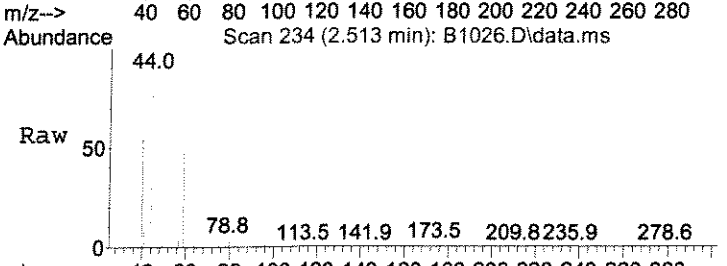
#16
 Acetone
 Concen: 0.80 ug/L
 RT: 2.123 min Scan# 170
 Delta R.T. -0.000 min
 Lab File: B1026.D
 Acq: 10 Jul 2008 2:41 pm

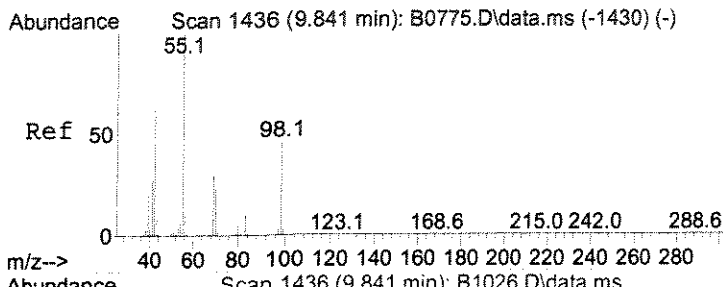
Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.1	0.9	60.9
42	19.1	0.0	37.2



#24
 TBA
 Concen: 1.60 ug/L m
 RT: 2.513 min Scan# 234
 Delta R.T. 0.006 min
 Lab File: B1026.D
 Acq: 10 Jul 2008 2:41 pm

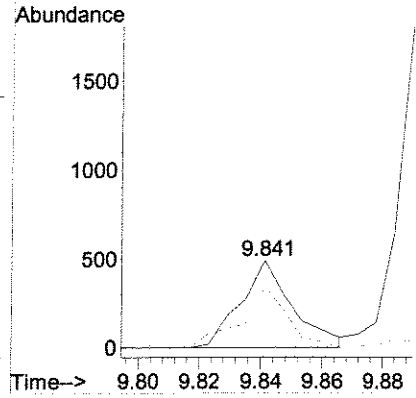
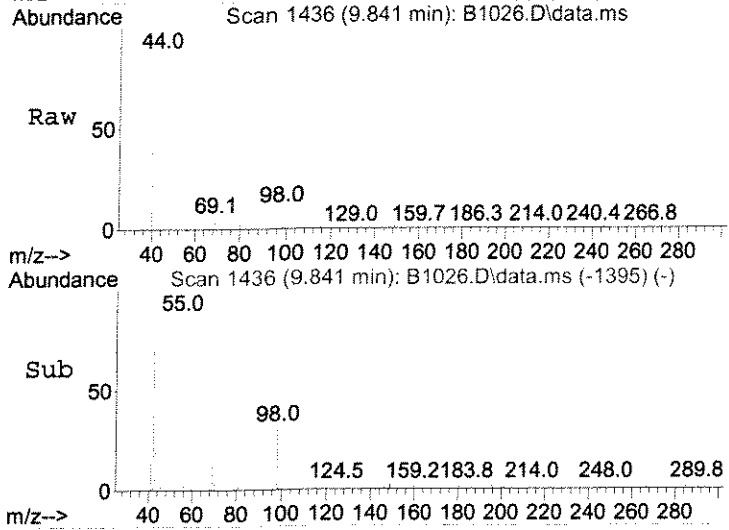
Tgt Ion	Ratio	Lower	Upper
59	100		
41	22.5	14.5	43.6





#85
 Cyclohexanone
 Concen: 0.59 ug/L m
 RT: 9.841 min Scan# 1436
 Delta R.T. -0.000 min
 Lab File: B1026.D
 Acq: 10 Jul 2008 2:41 pm

Tgt Ion	Ratio	Lower	Upper
55	100		
42	70.3	49.3	73.9



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1119375 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	24	UG/L
BENZENE	1.0	21	UG/L
BROMOBENZENE	2.0	20	UG/L
BROMOCHLOROMETHANE	2.0	21	UG/L
BROMODICHLOROMETHANE	1.0	20	UG/L
BROMOFORM	1.0	20	UG/L
BROMOMETHANE	2.0	21	UG/L
2-BUTANONE (MEK)	10	23	UG/L
TERT-BUTYL ALCOHOL	100	480	UG/L
METHYL-TERT-BUTYL ETHER	1.0	23	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	24	UG/L
TERT-BUTYLBENZENE	2.0	21	UG/L
SEC-BUTYLBENZENE	2.0	21	UG/L
N-BUTYLBENZENE	5.0	21	UG/L
CARBON TETRACHLORIDE	1.0	19	UG/L
CHLOROBENZENE	1.0	20	UG/L
CHLOROETHANE	2.0	21	UG/L
CHLOROFORM	1.0	21	UG/L
CHLOROMETHANE	2.0	23	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	20	UG/L
2-CHLOROTOLUENE	5.0	21	UG/L
4-CHLOROTOLUENE	5.0	21	UG/L
DIBROMOCHLOROMETHANE	1.0	21	UG/L
1,2-DIBROMOETHANE	1.0	21	UG/L
DIBROMOMETHANE	1.0	21	UG/L
1,2-DICHLOROBENZENE	2.0	21	UG/L
1,4-DICHLOROBENZENE	2.0	20	UG/L
1,3-DICHLOROBENZENE	2.0	20	UG/L
DICHLORODIFLUOROMETHANE	1.0	26	UG/L
1,1-DICHLOROETHANE	1.0	21	UG/L
1,2-DICHLOROETHANE	1.0	20	UG/L
1,1-DICHLOROETHENE	1.0	22	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	21	UG/L
CIS-1,2-DICHLOROETHENE	1.0	21	UG/L
2,2-DICHLOROPROPANE	2.0	15	UG/L
1,2-DICHLOROPROPANE	1.0	23	UG/L
1,3-DICHLOROPROPANE	2.0	22	UG/L
1,1-DICHLOROPROPENE	2.0	21	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	21	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	21	UG/L
ETHYLBENZENE	1.0	21	UG/L
HEXACHLOROBUTADIENE	5.0	19	UG/L
2-HEXANONE	10	21	UG/L
DI-ISOPROPYL ETHER	1.0	24	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:

Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1119375 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164283

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/01/08			
ANALYTICAL DILUTION: 1.00			
ISOPROPYLBENZENE	2.0	22	UG/L
P-ISOPROPYLTOLUENE	2.0	21	UG/L
TERT-AMYL-METHYL ETHER	1.0	23	UG/L
METHYLENE CHLORIDE	2.0	20	UG/L
NAPHTHALENE	2.0	21	UG/L
4-METHYL-2-PENTANONE	10	23	UG/L
N-PROPYLBENZENE	2.0	21	UG/L
STYRENE	1.0	22	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	20	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	23	UG/L
TETRACHLOROETHENE	1.0	19	UG/L
TOLUENE	1.0	21	UG/L
1,2,4-TRICHLOROBENZENE	2.0	22	UG/L
1,2,3-TRICHLOROBENZENE	2.0	22	UG/L
1,1,1-TRICHLOROETHANE	1.0	20	UG/L
1,1,2-TRICHLOROETHANE	1.0	22	UG/L
TRICHLOROETHENE	1.0	20	UG/L
TRICHLOROFLUOROMETHANE	1.0	20	UG/L
1,2,3-TRICHLOROPROPANE	2.0	21	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	21	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	22	UG/L
VINYL CHLORIDE	1.0	22	UG/L
M+P-XYLENE	2.0	43	UG/L
O-XYLENE	1.0	22	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	108	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0834.D Vial: 22
 Acq On : 1 Jul 2008 2:23 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

FJ
7/1/08

1119375 1.0

Quant Time: Jul 01 02:37:52 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1475000	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.641	114	2296977	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2089369	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1155046	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.355	113	721679	47.43	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	94.86%		
49) surr1,1,2-dichloroetha...	4.891	65	749504	51.91	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	103.82%		
65) SURR3,Toluene-d8	7.451	98	2702277	54.04	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.08%		
70) SURR2,BFB	9.896	95	1109683	53.89	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.78%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.184	85	302405	25.64	ug/L		99
4) Chloromethane	1.294	50	255373	23.32	ug/L		99
5) Vinyl Chloride	1.355	62	254966	22.56	ug/L		99
6) Bromomethane	1.556	94	168257	20.84	ug/L		100
7) Chloroethane	1.611	64	134037	21.32	ug/L		99
8) Freon 21	1.721	67	456641	21.56	ug/L		100
9) Trichlorofluoromethane	1.770	101	386840	19.57	ug/L		98
10) Diethyl Ether	1.934	59	157503	23.63	ug/L		97
11) Freon 123a	1.934	67	224947	17.58	ug/L		97
12) Freon 123	1.971	83	277398	17.93	ug/L		100
13) Acrolein	2.026	56	66902	76.38	ug/L		96
14) 1,1-Dicethene	2.105	96	219903	22.10	ug/L		98
15) Freon 113	2.093	101	221081	20.80	ug/L		98
16) Acetone	2.123	43	44178	24.27	ug/L		96
17) 2-Propanol	2.196	45	195983	506.42	ug/L		98
18) Iodomethane	2.221	142	259906	17.43	ug/L		97
19) Carbon Disulfide	2.276	76	719129	18.85	ug/L		99
20) Acetonitrile	2.324	40	29251	114.88	ug/L		82
21) Allyl Chloride	2.355	76	120884	21.79	ug/L		93
22) Methyl Acetate	2.361	43	139170	26.17	ug/L		98
23) Methylene Chloride	2.446	84	250889	20.31	ug/L		99
24) TBA	2.507	59	294566	479.75	ug/L		99
25) Acrylonitrile	2.641	53	315787	125.86	ug/L		100
26) Methyl-t-Butyl Ether	2.666	73	589555	23.39	ug/L		98
27) trans-1,2-Dichloroethene	2.678	96	235197	20.64	ug/L		99
28) 1,1-Dicethane	3.062	63	447883	21.34	ug/L		99
29) Vinyl Acetate	3.099	86	18840	15.97	ug/L		96
30) DIPE	3.117	45	737801	24.12	ug/L		90
31) 2-Chloro-1,3-Butadiene	3.154	53	343039	21.06	ug/L		95
32) ETBE	3.519	59	695636	24.42	ug/L		99
33) 2,2-Dichloropropane	3.702	77	227311	15.16	ug/L		97
34) cis-1,2-Dichloroethene	3.702	96	261266	21.24	ug/L		94
35) 2-Butanone	3.714	43	70495	23.10	ug/L		96
37) Propionitrile	3.788	54	115324	122.20	ug/L		95
38) Bromochloromethane	4.007	130	160348	20.82	ug/L		93

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0834.D Vial: 22
 Acq On : 1 Jul 2008 2:23 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 01 02:37:52 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	69207	26.28	ug/L	98
40) Tetrahydrofuran	4.080	42	43475	24.81	ug/L	93
41) Chloroform	4.117	83	451058	21.08	ug/L	99
42) 1,1,1-Trichloroethane	4.385	97	378588	19.78	ug/L	98
43) TAME	5.208	73	551738	23.43	ug/L	99
45) Cyclohexane	4.470	41	191837	19.97	ug/L	96
47) Carbontetrachloride	4.641	121	107915	18.99	ug/L	92
48) 1,1-Dichloropropene	4.647	75	348152	21.39	ug/L	97
50) Benzene	4.989	78	975402	21.08	ug/L	99
51) 1,2-Dichloroethane	5.025	62	324727	20.32	ug/L	98
52) Iso-Butyl Alcohol	4.891	43	123175	455.21	ug/L	94
53) n-Heptane	5.476	43	190655	20.13	ug/L	96
54) Trichloroethene	5.988	130	257581	20.27	ug/L	98
55) Methylcyclohexane	6.238	55	283730	20.44	ug/L	96
56) 1,2-Dicloropropane	6.287	63	261207	22.66	ug/L	99
57) Dibromomethane	6.427	93	140165	20.82	ug/L	95
58) 1,4-Dioxane	6.488	88	40138	436.02	ug/L	97
59) Methyl Methacrylate	6.482	69	121393	24.16	ug/L	97
60) Bromodichloromethane	6.641	83	334342	20.16	ug/L	100
62) 2-Chloroethylvinyl Ether	7.025	63	93153	23.00	ug/L	100
63) cis-1,3-Dichloropropene	7.165	75	370714	21.43	ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	145653	22.80	ug/L	99
66) Toluene	7.519	91	1046053	20.68	ug/L	99
67) trans-1,3-Dichloropropene	7.768	75	308175	20.69	ug/L	99
68) Ethyl Methacrylate	7.884	69	247140	23.88	ug/L	96
69) 1,1,2-Trichloroethane	7.945	97	192871	21.60	ug/L	97
72) Tetrachloroethene	8.073	164	202467	19.43	ug/L	99
73) 2-Hexanone	8.214	43	96709	20.97	ug/L	97
74) 1,3-Dichloropropene	8.104	76	341852	21.56	ug/L	99
75) Dibromochloromethane	8.317	129	253529	21.25	ug/L	97
76) 1,2-Dibromoethane	8.415	107	197821	21.35	ug/L	99
77) Chlorobenzene	8.884	112	704985	20.28	ug/L	99
78) 1,1,1,2-Tetrachloroethane	8.963	131	245966	19.82	ug/L	96
79) Ethylbenzene	8.994	106	366286	20.88	ug/L	99
80) (m+p)Xylene	9.098	106	914126	43.03	ug/L	98
81) o-Xylene	9.445	106	447052	22.04	ug/L	99
82) Styrene	9.463	104	763477	22.04	ug/L	98
83) Bromoform	9.616	173	147705	20.18	ug/L	100
84) Isopropylbenzene	9.768	105	1128157	21.55	ug/L	99
85) Cyclohexanone	9.841	55	429130	452.52	ug/L	98
86) trans-1,4-Dichloro-2-B...	10.073	53	50771	26.96	ug/L	95
88) 1,1,2,2-Tetrachloroethane	10.024	83	247359	23.19	ug/L	98
89) Bromobenzene	10.018	156	301869	20.47	ug/L	97
91) 1,2,3-Trichloropropene	10.055	110	67083	21.05	ug/L	96
92) n-Propylbenzene	10.116	91	1350646	21.16	ug/L	99
93) 2-Chlorotoluene	10.183	91	836167	20.93	ug/L	100
94) 4-Chlorotoluene	10.274	91	1007529	21.35	ug/L	99
95) 1,3,5-Trimethylbenzene	10.262	105	973435	21.39	ug/L	100
96) tert-Butylbenzene	10.530	119	792563	21.27	ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	1014309	21.56	ug/L	98
98) sec-Butylbenzene	10.713	105	1155358	21.18	ug/L	99
99) p-Isopropyltoluene	10.829	119	993512	20.90	ug/L	99

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\063008\B0834.D Vial: 22
 Acq On : 1 Jul 2008 2:23 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

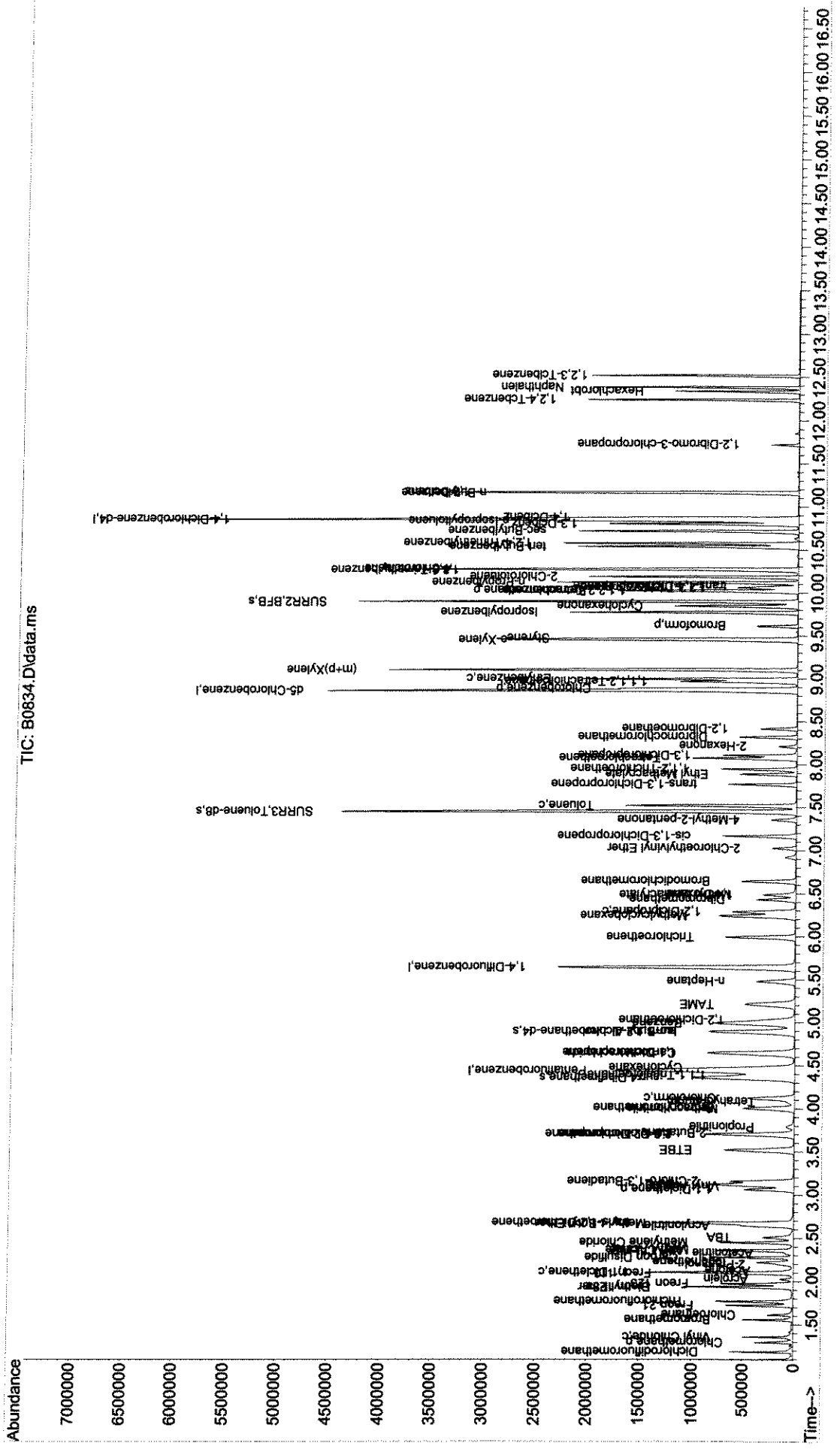
Quant Time: Jul 01 02:37:52 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	585885	20.14	ug/L	100
101) 1,4-Dclbenz	10.872	146	603452	20.05	ug/L	99
103) n-Butylbenzene	11.152	91	882033	21.44	ug/L	99
104) 1,2-Dclbenz	11.164	146	567610	20.72	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	46740	20.08	ug/L	94
107) 1,2,4-Tcbenzene	12.237	180	406093	21.72	ug/L	98
108) Hexachlorobt	12.335	225	146145	19.25	ug/L	99
109) Naphthalen	12.377	128	856880	21.27	ug/L	100
110) 1,2,3-Tclbenzene	12.518	180	369511	21.58	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : LCS
 Data File : J:\ACQDATA\MSVOA10\DATA\063008\B0834.D Vial: 22
 Acq On : 1 Jul 2008 2:23 am
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 01 02:37:52 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled :	Order #: 1119456	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	24	UG/L
BENZENE	1.0	21	UG/L
BROMOBENZENE	2.0	20	UG/L
BROMOCHLOROMETHANE	2.0	20	UG/L
BROMODICHLOROMETHANE	1.0	19	UG/L
BROMOFORM	1.0	18	UG/L
BROMOMETHANE	2.0	20	UG/L
2-BUTANONE (MEK)	10	20	UG/L
TERT-BUTYL ALCOHOL	100	380	UG/L
METHYL-TERT-BUTYL ETHER	1.0	21	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	23	UG/L
TERT-BUTYLBENZENE	2.0	21	UG/L
SEC-BUTYLBENZENE	2.0	21	UG/L
N-BUTYLBENZENE	5.0	22	UG/L
CARBON TETRACHLORIDE	1.0	18	UG/L
CHLOROBENZENE	1.0	20	UG/L
CHLOROETHANE	2.0	21	UG/L
CHLOROFORM	1.0	21	UG/L
CHLOROMETHANE	2.0	23	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	17	UG/L
2-CHLOROTOLUENE	5.0	20	UG/L
4-CHLOROTOLUENE	5.0	21	UG/L
DIBROMOCHLOROMETHANE	1.0	19	UG/L
1,2-DIBROMOETHANE	1.0	19	UG/L
DIBROMOMETHANE	1.0	19	UG/L
1,2-DICHLOROETHANE	2.0	20	UG/L
1,4-DICHLOROETHANE	2.0	20	UG/L
1,3-DICHLOROETHANE	2.0	20	UG/L
DICHLORODIFLUOROMETHANE	1.0	25	UG/L
1,1-DICHLOROETHANE	1.0	21	UG/L
1,2-DICHLOROETHANE	1.0	19	UG/L
1,1-DICHLOROETHENE	1.0	22	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	21	UG/L
CIS-1,2-DICHLOROETHENE	1.0	21	UG/L
2,2-DICHLOROPROPANE	2.0	21	UG/L
1,2-DICHLOROPROPANE	1.0	22	UG/L
1,3-DICHLOROPROPANE	2.0	20	UG/L
1,1-DICHLOROPROPENE	2.0	21	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	20	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	21	UG/L
ETHYLBENZENE	1.0	20	UG/L
HEXACHLOROBUTADIENE	5.0	20	UG/L
2-HEXANONE	10	18	UG/L
DI-ISOPROPYL ETHER	1.0	24	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1119456 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164297

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/02/08			
ANALYTICAL DILUTION: 1.00			
ISOPROPYLBENZENE	2.0	21	UG/L
P-ISOPROPYLTOLUENE	2.0	21	UG/L
TERT-AMYL-METHYL ETHER	1.0	21	UG/L
METHYLENE CHLORIDE	2.0	20	UG/L
NAPHTHALENE	2.0	18	UG/L
4-METHYL-2-PENTANONE	10	19	UG/L
N-PROPYLBENZENE	2.0	21	UG/L
STYRENE	1.0	21	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	19	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	21	UG/L
TETRACHLOROETHENE	1.0	19	UG/L
TOLUENE	1.0	20	UG/L
1,2,4-TRICHLOROBENZENE	2.0	20	UG/L
1,2,3-TRICHLOROBENZENE	2.0	20	UG/L
1,1,1-TRICHLOROETHANE	1.0	20	UG/L
1,1,2-TRICHLOROETHANE	1.0	20	UG/L
TRICHLOROETHENE	1.0	20	UG/L
TRICHLOROFLUOROMETHANE	1.0	19	UG/L
1,2,3-TRICHLOROPROPANE	2.0	18	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	21	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	21	UG/L
VINYL CHLORIDE	1.0	22	UG/L
M+P-XYLENE	2.0	42	UG/L
O-XYLENE	1.0	21	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	107	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	94	%

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\070208\B0879.D Vial: 1
 Acq On : 2 Jul 2008 2:29 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

1119456 1.0

FU
7/7/08

Quant Time: Jul 02 14:44:04 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Pentafluorobenzene	4.434	168	1462751	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2318141	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.854	117	2123290	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1155315	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	724663	47.11	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	94.22%		
49) surr1,1,2-dichloroetha...	4.885	65	721920	49.54	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	99.08%		
65) SURR3,Toluene-d8	7.445	98	2734308	54.19	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.38%		
70) SURR2,BFB	9.896	95	1116853	53.74	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	107.48%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.184	85	297715	25.45	ug/L		98
4) Chloromethane	1.294	50	251009	23.11	ug/L		98
5) Vinyl Chloride	1.355	62	241874	21.58	ug/L		99
6) Bromomethane	1.556	94	162360	20.28	ug/L		99
7) Chloroethane	1.611	64	133395	21.40	ug/L		98
8) Freon 21	1.721	67	479558	22.83	ug/L		99
9) Trichlorofluoromethane	1.764	101	381798	19.47	ug/L		98
10) Diethyl Ether	1.934	59	142476	21.55	ug/L		99
11) Freon 123a	1.928	67	238779	18.82	ug/L		91
12) Freon 123	1.965	83	294294	19.19	ug/L		96
13) Acrolein	2.026	56	87830	101.11	ug/L		100
14) 1,1-Dicethene	2.099	96	216761	21.96	ug/L		98
15) Freon 113	2.093	101	227181	21.55	ug/L		97
16) Acetone	2.123	43	43922	24.34	ug/L		93
17) 2-Propanol	2.196	45	154750	403.22	ug/L		96
18) Iodomethane	2.215	142	279096	18.88	ug/L		99
19) Carbon Disulfide	2.276	76	694304	18.35	ug/L		99
20) Acetonitrile	2.325	40	29847	118.20	ug/L		95
21) Allyl Chloride	2.355	76	120625	21.93	ug/L		94
22) Methyl Acetate	2.355	43	126074	23.91	ug/L		98
23) Methylene Chloride	2.446	84	241901	19.75	ug/L		98
24) TBA	2.507	59	229914	377.59	ug/L		97
25) Acrylonitrile	2.635	53	282465	113.52	ug/L		99
26) Methyl-t-Butyl Ether	2.666	73	520757	20.83	ug/L		98
27) trans-1,2-Dichloroethene	2.672	96	234677	20.76	ug/L		96
28) 1,1-Dicethane	3.062	63	439530	21.11	ug/L		100
29) Vinyl Acetate	3.099	86	18467	15.82	ug/L		66
30) DIPE	3.117	45	735444	24.25	ug/L		89
31) 2-Chloro-1,3-Butadiene	3.154	53	335907	20.79	ug/L		94
32) ETBE	3.513	59	642579	22.74	ug/L		98
33) 2,2-Dichloropropane	3.696	77	308821	20.77	ug/L		98
34) cis-1,2-Dichloroethene	3.696	96	253434	20.77	ug/L		98
35) 2-Butanone	3.714	43	60984	20.15	ug/L		99
37) Propionitrile	3.788	54	101035	107.95	ug/L		97
38) Bromochloromethane	4.007	130	151289	19.81	ug/L		96

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\070208\B0879.D Vial: 1
 Acq On : 2 Jul 2008 2:29 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 02 14:44:04 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.989	67	61236	23.45	ug/L	94
40) Tetrahydrofuran	4.068	42	36230	20.84	ug/L	95
41) Chloroform	4.117	83	440974	20.78	ug/L	99
42) 1,1,1-Trichloroethane	4.379	97	373011	19.66	ug/L	98
43) TAME	5.208	73	501241	21.47	ug/L	99
45) Cyclohexane	4.464	41	203618	21.01	ug/L	96
47) Carbontetrachloride	4.641	121	105899	18.47	ug/L	92
48) 1,1-Dichloropropene	4.641	75	342938	20.88	ug/L	97
50) Benzene	4.983	78	963789	20.63	ug/L	99
51) 1,2-Dichloroethane	5.019	62	303027	18.79	ug/L	97
52) Iso-Butyl Alcohol	4.885	43	99224	376.05	ug/L	98
53) n-Heptane	5.476	43	230445	24.10	ug/L	96
54) Trichloroethene	5.988	130	250826	19.56	ug/L	98
55) Methylcyclohexane	6.232	55	302699	21.60	ug/L	98
56) 1,2-Diclp propane	6.281	63	252898	21.74	ug/L	98
57) Dibromomethane	6.427	93	129965	19.13	ug/L	100
58) 1,4-Dioxane	6.476	88	32527	360.88	ug/L	95
59) Methyl Methacrylate	6.482	69	103387	20.62	ug/L	98
60) Bromodichloromethane	6.641	83	319564	19.10	ug/L	99
62) 2-Chloroethylvinyl Ether	7.025	63	86087	21.05	ug/L	100
63) cis-1,3-Dichloropropene	7.165	75	365281	20.92	ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	122019	18.92	ug/L	98
66) Toluene	7.519	91	1027929	20.13	ug/L	98
67) trans-1,3-Dichloropropene	7.762	75	298013	19.82	ug/L	98
68) Ethyl Methacrylate	7.884	69	213820	20.70	ug/L	99
69) 1,1,2-Trichloroethane	7.945	97	175817	19.51	ug/L	96
72) Tetrachloroethene	8.067	164	203135	19.18	ug/L	95
73) 2-Hexanone	8.214	43	82637	17.63	ug/L	97
74) 1,3-Dichloropropane	8.104	76	318645	19.78	ug/L	100
75) Dibromochloromethane	8.317	129	228813	18.87	ug/L	98
76) 1,2-Dibromoethane	8.415	107	180876	19.21	ug/L	100
77) Chlorobenzene	8.884	112	693045	19.62	ug/L	99
78) 1,1,1,2-Tetrachloroethane	8.963	131	241679	19.17	ug/L	98
79) Ethylbenzene	8.994	106	362774	20.35	ug/L	99
80) (m+p)Xylene	9.098	106	902561	41.81	ug/L	98
81) o-Xylene	9.445	106	434983	21.10	ug/L	98
82) Styrene	9.457	104	745036	21.16	ug/L	97
83) Bromoform	9.616	173	132397	17.80	ug/L	99
84) Isopropylbenzene	9.768	105	1122021	21.09	ug/L	99
85) Cyclohexanone	9.841	55	430531	446.75	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.073	53	49571	25.90	ug/L	98
88) 1,1,2,2-Tetrachloroethane	10.024	83	221660	20.78	ug/L	98
89) Bromobenzene	10.012	156	290946	19.72	ug/L	87
91) 1,2,3-Trichloropropane	10.055	110	56697	17.79	ug/L	90
92) n-Propylbenzene	10.116	91	1356180	21.24	ug/L	99
93) 2-Chlorotoluene	10.183	91	816251	20.42	ug/L	100
94) 4-Chlorotoluene	10.274	91	993872	21.06	ug/L	98
95) 1,3,5-Trimethylbenzene	10.262	105	952180	20.92	ug/L	99
96) tert-Butylbenzene	10.530	119	774398	20.78	ug/L	99
97) 1,2,4-Trimethylbenzene	10.573	105	999694	21.24	ug/L	98
98) sec-Butylbenzene	10.713	105	1163730	21.33	ug/L	99
99) p-Isopropyltoluene	10.829	119	998266	21.00	ug/L	98

fu 7/7/08

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\070208\B0879.D Vial: 1
 Acq On : 2 Jul 2008 2:29 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 02 14:44:04 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.792	146	576550	19.81	ug/L	97
101) 1,4-Dclbenz	10.866	146	594919	19.76	ug/L	98
103) n-Butylbenzene	11.152	91	905056	22.00	ug/L	99
104) 1,2-Dclbenz	11.164	146	537475	19.62	ug/L	100
105) 1,2-Dibromo-3-chloropr...	11.719	157	38739	16.64	ug/L	99
107) 1,2,4-Tcbenzene	12.237	180	380755	20.36	ug/L	98
108) Hexachlorobt	12.335	225	153324	20.19	ug/L	99
109) Naphthalen	12.377	128	738601	18.40	ug/L	99
110) 1,2,3-Tclbenzene	12.512	180	340564	19.88	ug/L	98

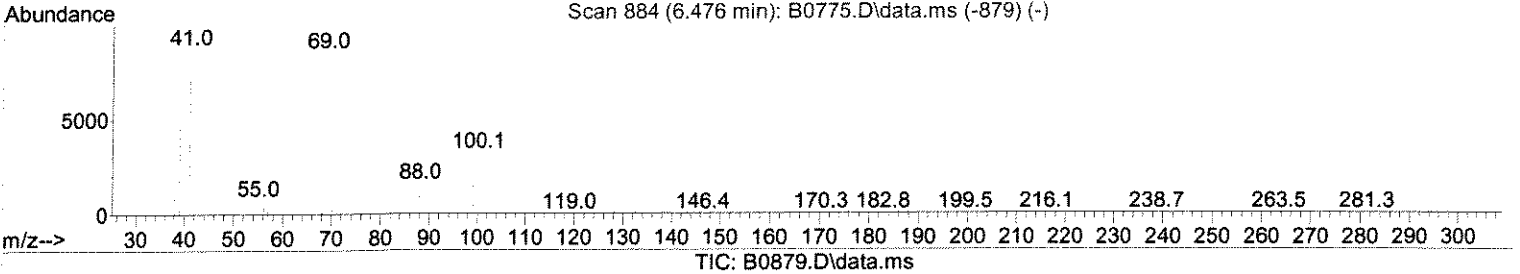
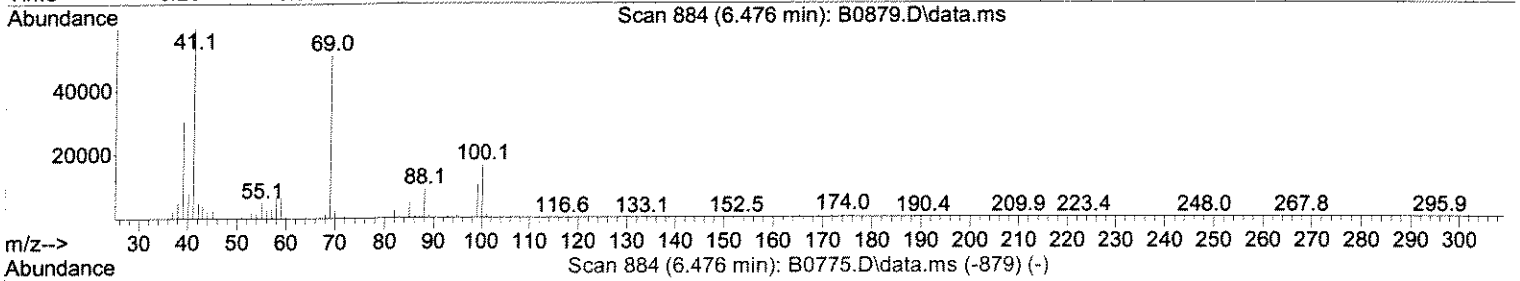
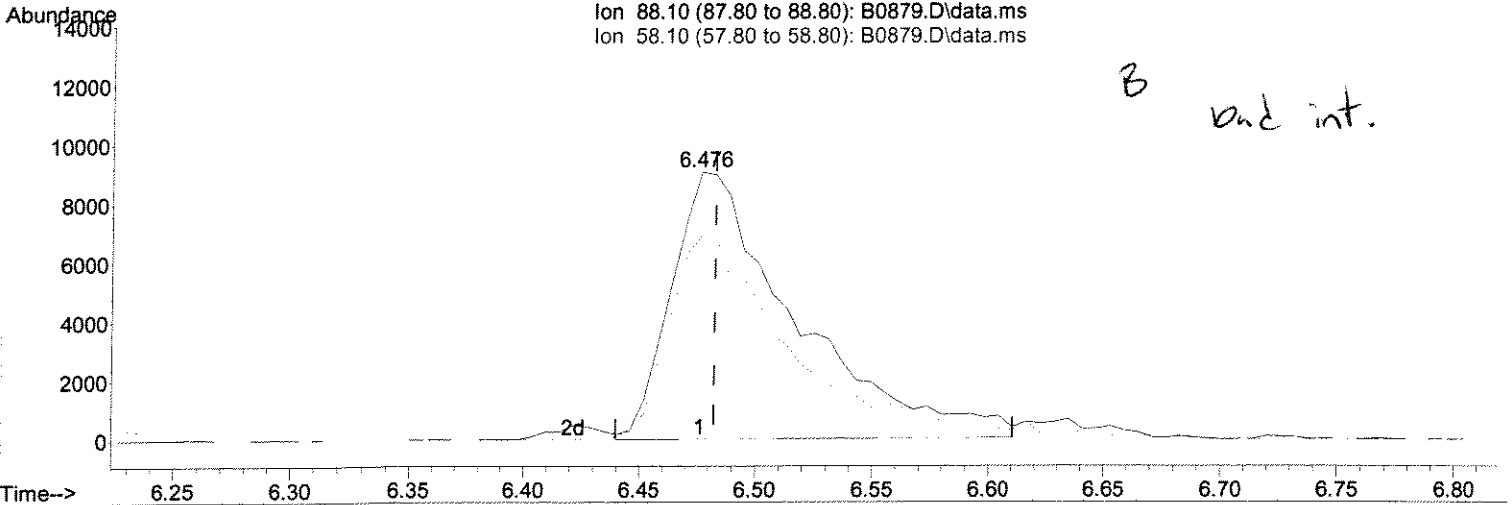
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Sample : LCS
Data File : J:\ACQUDATA\msvoa10\data\070208\B0879.D Vial: 1
Acq On : 2 Jul 2008 2:29 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 02 14:44:04 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

FN 7/7/08



(58) 1,4-Dioxane
6.476min (-0.006) 360.88 ug/L
response 33527

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	76.13
0.00	0.00	0.00
0.00	0.00	0.00

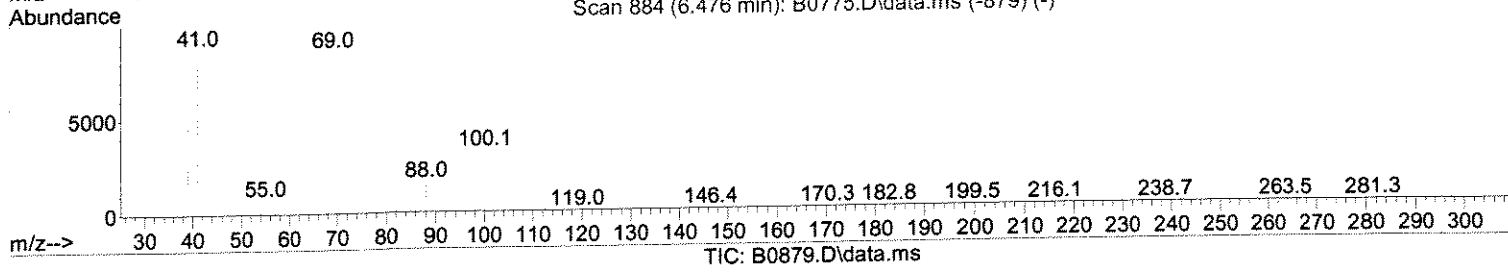
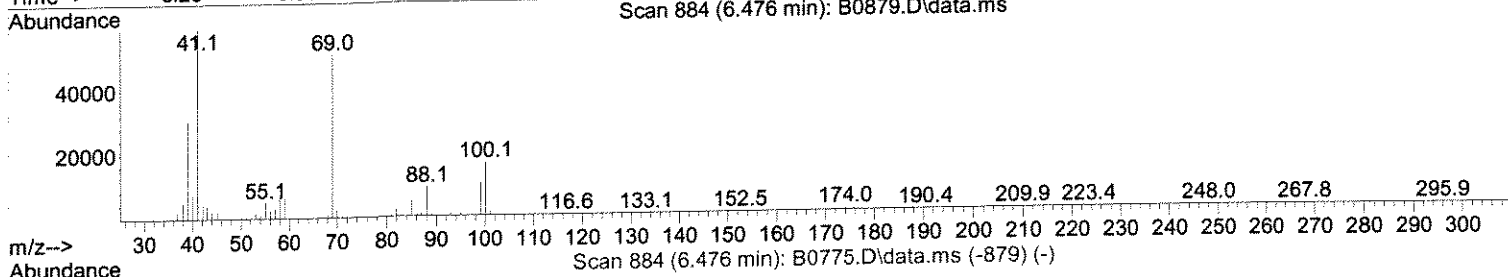
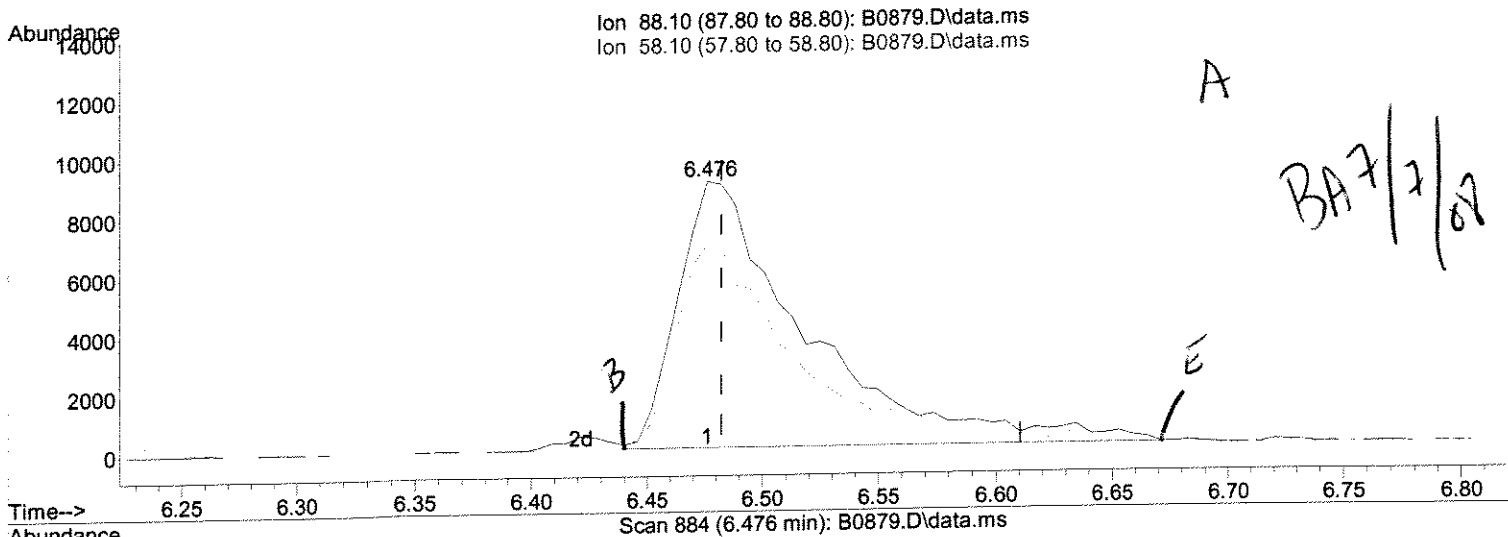


Quantitation Report (Qedit)

Sample : LCS
 Data File : J:\ACQUADATA\msvoa10\data\070208\B0879.D Vial: 1
 Acq On : 2 Jul 2008 2:29 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 02 14:44:04 2008
 Quant Method : J:\ACQUADATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Fig 7/7/08



(58) 1,4-Dioxane

6.476min (-0.006) 373.28 ug/L m

response 34679

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	76.13
0.00	0.00	0.00
0.00	0.00	0.00



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1119493 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	23	UG/L
BENZENE	1.0	20	UG/L
BROMOBENZENE	2.0	19	UG/L
BROMOCHLOROMETHANE	2.0	20	UG/L
BROMODICHLOROMETHANE	1.0	19	UG/L
BROMOFORM	1.0	18	UG/L
BROMOMETHANE	2.0	20	UG/L
2-BUTANONE (MEK)	10	21	UG/L
TERT-BUTYL ALCOHOL	100	400	UG/L
METHYL-TERT-BUTYL ETHER	1.0	21	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	23	UG/L
TERT-BUTYLBENZENE	2.0	20	UG/L
SEC-BUTYLBENZENE	2.0	20	UG/L
N-BUTYLBENZENE	5.0	21	UG/L
CARBON TETRACHLORIDE	1.0	18	UG/L
CHLOROBENZENE	1.0	19	UG/L
CHLOROETHANE	2.0	22	UG/L
CHLOROFORM	1.0	20	UG/L
CHLOROMETHANE	2.0	24	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	16	UG/L
2-CHLOROTOLUENE	5.0	20	UG/L
4-CHLOROTOLUENE	5.0	20	UG/L
DIBROMOCHLOROMETHANE	1.0	19	UG/L
1,2-DIBROMOETHANE	1.0	19	UG/L
DIBROMOMETHANE	1.0	19	UG/L
1,2-DICHLOROBENZENE	2.0	19	UG/L
1,4-DICHLOROBENZENE	2.0	19	UG/L
1,3-DICHLOROBENZENE	2.0	19	UG/L
DICHLORODIFLUOROMETHANE	1.0	25	UG/L
1,1-DICHLOROETHANE	1.0	21	UG/L
1,2-DICHLOROETHANE	1.0	19	UG/L
1,1-DICHLOROETHENE	1.0	22	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	21	UG/L
CIS-1,2-DICHLOROETHENE	1.0	20	UG/L
2,2-DICHLOROPROPANE	2.0	20	UG/L
1,2-DICHLOROPROPANE	1.0	21	UG/L
1,3-DICHLOROPROPANE	2.0	20	UG/L
1,1-DICHLOROPROPENE	2.0	20	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	20	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	21	UG/L
ETHYLBENZENE	1.0	20	UG/L
HEXACHLOROBUTADIENE	5.0	19	UG/L
2-HEXANONE	10	17	UG/L
DI-ISOPROPYL ETHER	1.0	24	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1119493 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
ISOPROPYLBENZENE	2.0	20	UG/L
P-ISOPROPYLTOLUENE	2.0	20	UG/L
TERT-AMYL-METHYL ETHER	1.0	21	UG/L
METHYLENE CHLORIDE	2.0	20	UG/L
NAPHTHALENE	2.0	18	UG/L
4-METHYL-2-PENTANONE	10	19	UG/L
N-PROPYLBENZENE	2.0	21	UG/L
STYRENE	1.0	21	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	18	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	21	UG/L
TETRACHLOROETHENE	1.0	18	UG/L
TOLUENE	1.0	20	UG/L
1,2,4-TRICHLOROBENZENE	2.0	20	UG/L
1,2,3-TRICHLOROBENZENE	2.0	19	UG/L
1,1,1-TRICHLOROETHANE	1.0	19	UG/L
1,1,2-TRICHLOROETHANE	1.0	20	UG/L
TRICHLOROETHENE	1.0	18	UG/L
TRICHLOROFLUOROMETHANE	1.0	19	UG/L
1,2,3-TRICHLOROPROPANE	2.0	19	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	20	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	20	UG/L
VINYL CHLORIDE	1.0	22	UG/L
M+P-XYLENE	2.0	40	UG/L
O-XYLENE	1.0	20	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	109	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0901.D Vial: 1
 Acq On : 3 Jul 2008 12:00 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

119493 1.0

Fw 7/3/08

Quant Time: Jul 03 12:14:37 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1441700	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2310521	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.854	117	2134737	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1159305	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	730117	47.79	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	95.58%		
49) surr1,1,2-dichloroetha...	4.885	65	737703	50.79	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	101.58%		
65) SURR3,Toluene-d8	7.445	98	2775072	55.18	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	110.36%		
70) SURR2,BFB	9.896	95	1129242	54.52	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.04%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.184	85	290479	25.20	ug/L		100
4) Chloromethane	1.294	50	259749	24.26	ug/L		99
5) Vinyl Chloride	1.355	62	245337	22.21	ug/L		99
6) Bromomethane	1.556	94	158986	20.14	ug/L		96
7) Chloroethane	1.611	64	136301	22.18	ug/L		100
8) Freon 21	1.721	67	444698	21.48	ug/L		100
9) Trichlorofluoromethane	1.764	101	371792	19.24	ug/L		100
10) Diethyl Ether	1.934	59	148909	22.86	ug/L		98
11) Freon 123a	1.928	67	220292	17.62	ug/L		89
12) Freon 123	1.965	83	272568	18.03	ug/L		98
13) Acrolein	2.026	56	87541	102.25	ug/L		98
14) 1,1-Diclcethene	2.099	96	209463	21.53	ug/L		95
15) Freon 113	2.093	101	225134	21.67	ug/L		94
16) Acetone	2.123	43	40348	22.68	ug/L		99
17) 2-Propanol	2.196	45	159339	421.24	ug/L		99
18) Iodomethane	2.215	142	271644	18.64	ug/L		99
19) Carbon Disulfide	2.276	76	669695	17.96	ug/L		99
20) Acetonitrile	2.324	40	33697	135.39	ug/L		89
21) Allyl Chloride	2.355	76	117037	21.59	ug/L		93
22) Methyl Acetate	2.355	43	127269	24.48	ug/L		98
23) Methylene Chloride	2.446	84	241642	20.01	ug/L		96
24) TBA	2.507	59	238197	396.90	ug/L		94
25) Acrylonitrile	2.635	53	295983	120.69	ug/L		100
26) Methyl-t-Butyl Ether	2.666	73	529544	21.49	ug/L		96
27) trans-1,2-Dichloroethene	2.672	96	230451	20.69	ug/L		96
28) 1,1-Diclcethane	3.056	63	431336	21.02	ug/L		98
29) Vinyl Acetate	3.099	86	17999	15.67	ug/L		69
30) DIPE	3.117	45	726229	24.29	ug/L		90
31) 2-Chloro-1,3-Butadiene	3.154	53	325081	20.42	ug/L		98
32) ETBE	3.513	59	631081	22.66	ug/L		98
33) 2,2-Dichloropropane	3.702	77	299137	20.41	ug/L		100
34) cis-1,2-Dichloroethene	3.696	96	246559	20.50	ug/L		93
35) 2-Butanone	3.714	43	63082	21.15	ug/L #		96
37) Propionitrile	3.782	54	106181	115.11	ug/L		95
38) Bromochloromethane	4.007	130	147889	19.64	ug/L		91



Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0901.D Vial: 1
 Acq On : 3 Jul 2008 12:00 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 03 12:14:37 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.989	67	61410	23.86	ug/L	96
40) Tetrahydrofuran	4.074	42	41703	24.34	ug/L	86
41) Chloroform	4.117	83	430232	20.57	ug/L	99
42) 1,1,1-Trichloroethane	4.379	97	353679	18.91	ug/L	95
43) TAME	5.208	73	491945	21.38	ug/L	99
45) Cyclohexane	4.464	41	186597	19.31	ug/L	98
47) Carbontetrachloride	4.641	121	101057	17.68	ug/L	87
48) 1,1-Dichloropropene	4.641	75	335629	20.50	ug/L	98
50) Benzene	4.989	78	944700	20.29	ug/L	99
51) 1,2-Dichloroethane	5.019	62	300840	18.72	ug/L	95
52) Iso-Butyl Alcohol	4.879	43	102909	388.75	ug/L	94
53) n-Heptane	5.476	43	229934	24.13	ug/L	97
54) Trichloroethene	5.988	130	237161	18.55	ug/L	98
55) Methylcyclohexane	6.232	55	275974	19.76	ug/L	98
56) 1,2-Dicloropropane	6.281	63	247894	21.38	ug/L	100
57) Dibromomethane	6.427	93	131190	19.37	ug/L	96
58) 1,4-Dioxane	6.482	88	3687132174 347.46	347.46	ug/L	92
59) Methyl Methacrylate	6.482	69	106066	21.18	ug/L	97
60) Bromodichloromethane	6.641	83	318196	19.08	ug/L	99
62) 2-Chloroethylvinyl Ether	7.025	63	85390	20.95	ug/L	98
63) cis-1,3-Dichloropropene	7.165	75	364388	20.94	ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	124629	19.39	ug/L	96
66) Toluene	7.519	91	1000611	19.66	ug/L	98
67) trans-1,3-Dichloropropene	7.762	75	300268	20.04	ug/L	97
68) Ethyl Methacrylate	7.884	69	219342	21.25	ug/L	99
69) 1,1,2-Trichloroethane	7.945	97	179601	19.99	ug/L	99
72) Tetrachloroethene	8.067	164	193545	18.18	ug/L	95
73) 2-Hexanone	8.207	43	82312	17.47	ug/L	97
74) 1,3-Dichloropropane	8.104	76	318794	19.68	ug/L	98
75) Dibromochloromethane	8.317	129	230573	18.91	ug/L	99
76) 1,2-Dibromoethane	8.415	107	180245	19.04	ug/L	99
77) Chlorobenzene	8.884	112	675847	19.03	ug/L	100
78) 1,1,1,2-Tetrachloroethane	8.963	131	235090	18.54	ug/L	97
79) Ethylbenzene	8.994	106	354690	19.79	ug/L	100
80) (m+p)Xylene	9.098	106	879956	40.55	ug/L	99
81) o-Xylene	9.445	106	421832	20.35	ug/L	100
82) Styrene	9.457	104	730987	20.65	ug/L	96
83) Bromoform	9.616	173	133135	17.81	ug/L	100
84) Isopropylbenzene	9.768	105	1083771	20.26	ug/L	100
85) Cyclohexanone	9.841	55	397835	410.60	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.073	53	51993	27.02	ug/L #	95
88) 1,1,2,2-Tetrachloroethane	10.024	83	229217	21.41	ug/L	100
89) Bromobenzene	10.018	156	282460	19.08	ug/L	97
91) 1,2,3-Trichloropropane	10.055	110	60027	18.77	ug/L	94
92) n-Propylbenzene	10.116	91	1325879	20.70	ug/L	99
93) 2-Chlorotoluene	10.183	91	805072	20.07	ug/L	99
94) 4-Chlorotoluene	10.274	91	969368	20.47	ug/L	99
95) 1,3,5-Trimethylbenzene	10.262	105	929742	20.35	ug/L	98
96) tert-Butylbenzene	10.530	119	747982	20.00	ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	968015	20.50	ug/L	97
98) sec-Butylbenzene	10.713	105	1116250	20.39	ug/L	100
99) p-Isopropyltoluene	10.829	119	957805	20.08	ug/L	99

Sample : LCS
 Data File : J:\ACQUATA\MSVOA10\DATA\070308\B0901.D Vial: 1
 Acq On : 3 Jul 2008 12:00 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 03 12:14:37 2008
 Quant Method : J:\ACQUATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.792	146	553646	18.96	ug/L	97
101) 1,4-Dclbenz	10.866	146	573347	18.98	ug/L	97
103) n-Butylbenzene	11.152	91	880027	21.32	ug/L	99
104) 1,2-Dclbenz	11.164	146	534331	19.43	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	38544	16.50	ug/L	95
107) 1,2,4-Tcbenzene	12.237	180	370214	19.73	ug/L	97
108) Hexachlorobt	12.335	225	143654	18.85	ug/L	97
109) Naphthalen	12.377	128	737297	18.31	ug/L	98
110) 1,2,3-Tclbenzene	12.512	180	333548	19.41	ug/L	98

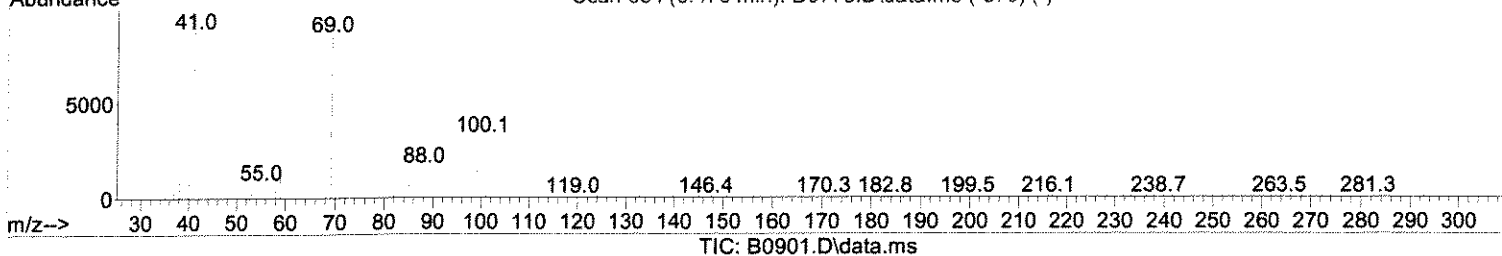
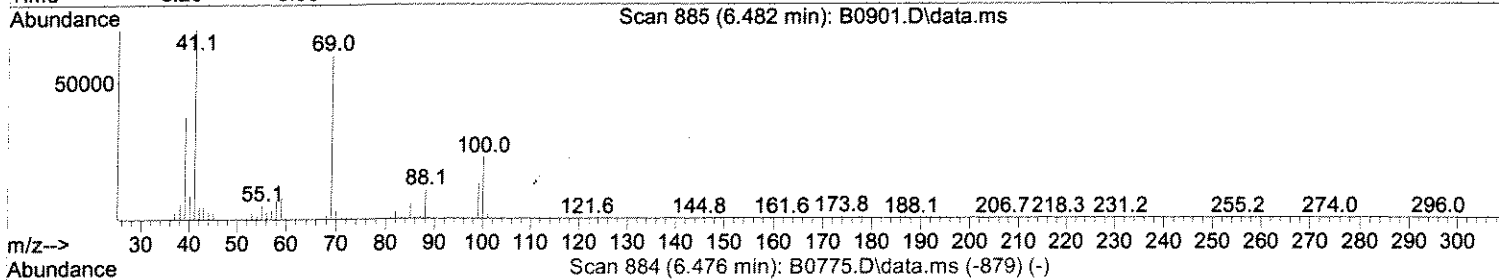
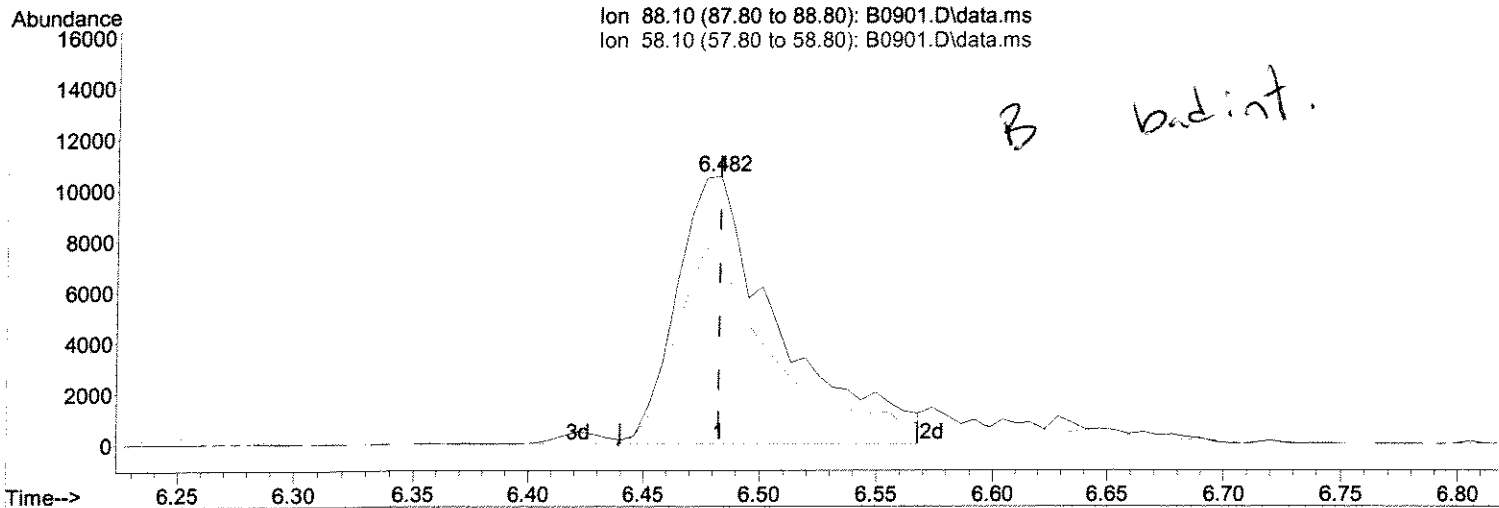
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Sample : LCS
 Data File : J:\ACQUDATA\msvoa10\data\070308\B0901.D Vial: 1
 Acq On : 3 Jul 2008 12:00 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 03 12:14:37 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FW 7/10/08



(58) 1,4-Dioxane

6.482min (-0.000) 347.46 ug/L

response 32174

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	64.99
0.00	0.00	0.00
0.00	0.00	0.00



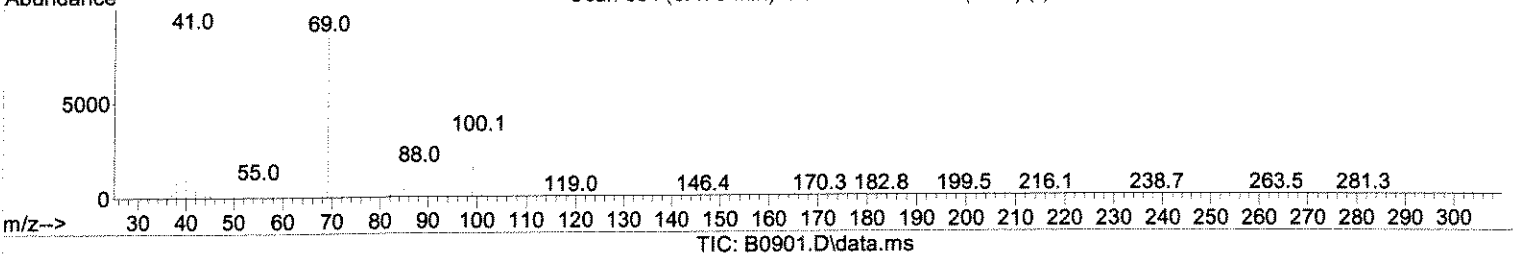
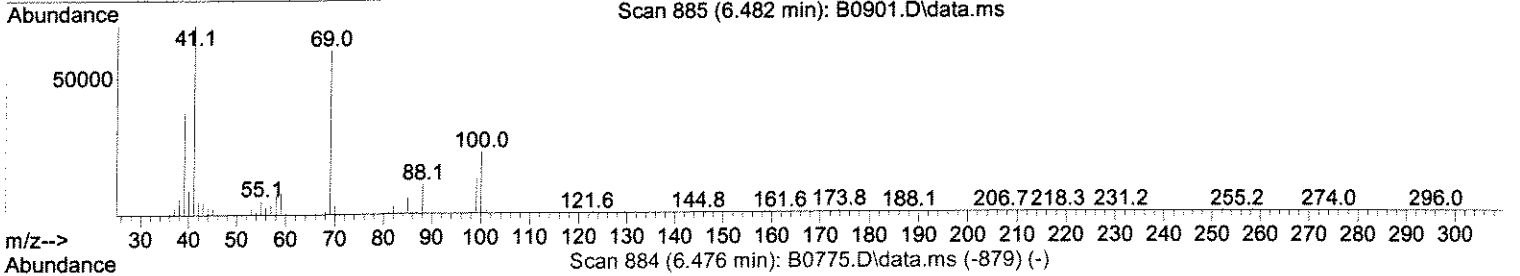
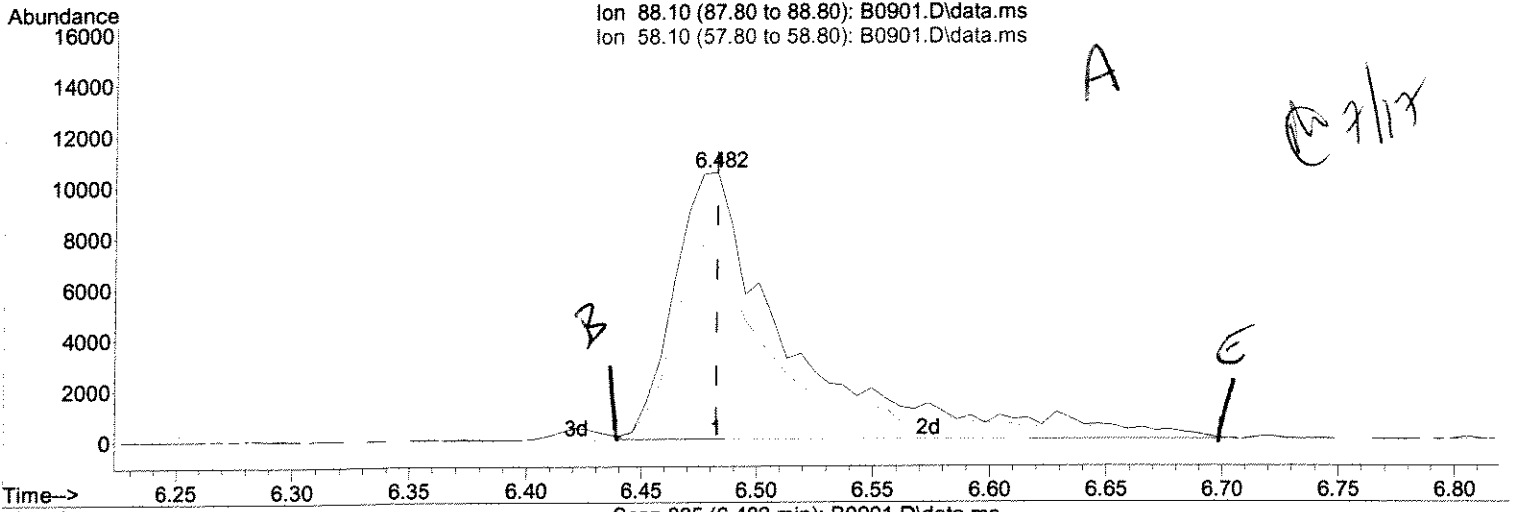
Quantitation Report (Qedit)

Sample : LCS
 Data File : J:\ACQUDATA\msvoa10\data\070308\B0901.D Vial: 1
 Acq On : 3 Jul 2008 12:00 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 03 12:14:37 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

FP 7/11/08

7/17



(58) 1,4-Dioxane

6.482min (-0.000) 398.25 ug/L m

response 36877

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	64.99
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1119513 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/09/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	27	UG/L
BENZENE	1.0	20	UG/L
BROMOBENZENE	2.0	18	UG/L
BROMOCHLOROMETHANE	2.0	20	UG/L
BROMODICHLOROMETHANE	1.0	18	UG/L
BROMOFORM	1.0	18	UG/L
BROMOMETHANE	2.0	20	UG/L
2-BUTANONE (MEK)	10	23	UG/L
TERT-BUTYL ALCOHOL	100	400	UG/L
METHYL-TERT-BUTYL ETHER	1.0	21	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	24	UG/L
TERT-BUTYLBENZENE	2.0	18	UG/L
SEC-BUTYLBENZENE	2.0	19	UG/L
N-BUTYLBENZENE	5.0	20	UG/L
CARBON TETRACHLORIDE	1.0	16	UG/L
CHLOROBENZENE	1.0	18	UG/L
CHLOROETHANE	2.0	22	UG/L
CHLOROFORM	1.0	20	UG/L
CHLOROMETHANE	2.0	24	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	16	UG/L
2-CHLOROTOLUENE	5.0	18	UG/L
4-CHLOROTOLUENE	5.0	19	UG/L
DIBROMOCHLOROMETHANE	1.0	18	UG/L
1,2-DIBROMOETHANE	1.0	18	UG/L
DIBROMOMETHANE	1.0	19	UG/L
1,2-DICHLOROBENZENE	2.0	18	UG/L
1,4-DICHLOROBENZENE	2.0	18	UG/L
1,3-DICHLOROBENZENE	2.0	18	UG/L
DICHLORODIFLUOROMETHANE	1.0	24	UG/L
1,1-DICHLOROETHANE	1.0	21	UG/L
1,2-DICHLOROETHANE	1.0	18	UG/L
1,1-DICHLOROETHENE	1.0	21	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	20	UG/L
CIS-1,2-DICHLOROETHENE	1.0	20	UG/L
2,2-DICHLOROPROPANE	2.0	20	UG/L
1,2-DICHLOROPROPANE	1.0	22	UG/L
1,3-DICHLOROPROPANE	2.0	19	UG/L
1,1-DICHLOROPROPENE	2.0	19	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	20	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	21	UG/L
ETHYLBENZENE	1.0	18	UG/L
HEXACHLOROBUTADIENE	5.0	18	UG/L
2-HEXANONE	10	18	UG/L
DI-ISOPROPYL ETHER	1.0	26 *	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 07/25/08

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1119513 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/09/08			
ANALYTICAL DILUTION: 1.00			
ISOPROPYLBENZENE	2.0	19	UG/L
P-ISOPROPYLTOLUENE	2.0	18	UG/L
TERT-AMYL-METHYL ETHER	1.0	22	UG/L
METHYLENE CHLORIDE	2.0	20	UG/L
NAPHTHALENE	2.0	17	UG/L
4-METHYL-2-PENTANONE	10	20	UG/L
N-PROPYLBENZENE	2.0	19	UG/L
STYRENE	1.0	20	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	18	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	21	UG/L
TETRACHLOROETHENE	1.0	16	UG/L
TOLUENE	1.0	19	UG/L
1,2,4-TRICHLOROBENZENE	2.0	18	UG/L
1,2,3-TRICHLOROBENZENE	2.0	18	UG/L
1,1,1-TRICHLOROETHANE	1.0	18	UG/L
1,1,2-TRICHLOROETHANE	1.0	20	UG/L
TRICHLOROETHENE	1.0	18	UG/L
TRICHLOROFLUOROMETHANE	1.0	19	UG/L
1,2,3-TRICHLOROPROPANE	2.0	18	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	19	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	19	UG/L
VINYL CHLORIDE	1.0	22	UG/L
M+P-XYLENE	2.0	38	UG/L
O-XYLENE	1.0	19	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(70 - 130 %)	112	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	94	%

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\070908\B0999.D Vial: 1
 Acq On : 9 Jul 2008 1:32 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

119513 1.0

FU
7/15/08

Quant Time: Jul 09 13:46:21 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1397908	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2301777	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2145931	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1189137	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	716747	46.86	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	93.72%		
49) surr1,1,2-dichloroetha...	4.885	65	728139	50.33	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	100.66%		
65) SURR3,Toluene-d8	7.445	98	2742653	54.74	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	109.48%		
70) SURR2,BFB	9.896	95	1151985	55.83	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	111.66%		
Target Compounds							
2) Dichlorodifluoromethane	1.184	85	266846	23.87	ug/L		99
4) Chloromethane	1.294	50	245486	23.65	ug/L		99
5) Vinyl Chloride	1.355	62	236553	22.08	ug/L		99
6) Bromomethane	1.556	94	152181	19.89	ug/L		99
7) Chloroethane	1.611	64	128456	21.56	ug/L		100
8) Freon 21	1.721	67	431565	21.50	ug/L		99
9) Trichlorofluoromethane	1.763	101	349413	18.65	ug/L		99
10) Diethyl Ether	1.934	59	148361	23.49	ug/L		97
11) Freon 123a	1.928	67	210485	17.36	ug/L		91
12) Freon 123	1.965	83	262046	17.88	ug/L		96
13) Acrolein	2.026	56	86869	104.64	ug/L		100
14) 1,1-Dicethene	2.105	96	194613	20.63	ug/L		98
15) Freon 113	2.093	101	209026	20.75	ug/L		90
16) Acetone	2.123	43	46311	26.85	ug/L		94
17) 2-Propanol	2.196	45	173098	471.95	ug/L		99
18) Iodomethane	2.215	142	280870	19.88	ug/L		99
19) Carbon Disulfide	2.276	76	692367	19.15	ug/L		99
20) Acetonitrile	2.324	40	32366	134.12	ug/L		91
21) Allyl Chloride	2.355	76	110734	21.06	ug/L		94
22) Methyl Acetate	2.355	43	145989	28.97	ug/L		97
23) Methylene Chloride	2.446	84	238600	20.38	ug/L		97
24) TBA	2.507	59	231070	397.09	ug/L		92
25) Acrylonitrile	2.635	53	298159	125.39	ug/L		97
26) Methyl-t-Butyl Ether	2.666	73	506122	21.19	ug/L		96
27) trans-1,2-Dichloroethene	2.678	96	218751	20.25	ug/L		99
28) 1,1-Dicethane	3.062	63	414484	20.84	ug/L		99
29) Vinyl Acetate	3.099	86	18589	16.53	ug/L		45
30) DIPE	3.117	45	741539	25.58	ug/L		88
31) 2-Chloro-1,3-Butadiene	3.153	53	336263	21.78	ug/L		92
32) ETBE	3.513	59	637247	23.60	ug/L		97
33) 2,2-Dichloropropane	3.702	77	287697	20.24	ug/L		97
34) cis-1,2-Dichloroethene	3.696	96	239266	20.52	ug/L		93
35) 2-Butanone	3.714	43	66024	22.82	ug/L		98
37) Propionitrile	3.787	54	108718	121.55	ug/L		92
38) Bromochloromethane	4.007	130	148411	20.33	ug/L		92

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\070908\B0999.D Vial: 1
 Acq On : 9 Jul 2008 1:32 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 09 13:46:21 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	61446	24.62	ug/L	97
40) Tetrahydrofuran	4.068	42	39035	23.50	ug/L	95
41) Chloroform	4.117	83	417625	20.59	ug/L	100
42) 1,1,1-Trichloroethane	4.385	97	331921	18.30	ug/L	96
43) TAME	5.208	73	491255	22.02	ug/L	98
45) Cyclohexane	4.464	41	205163	21.32	ug/L	97
47) Carbontetrachloride	4.635	121	94417	16.58	ug/L	88
48) 1,1-Dichloropropene	4.641	75	307996	18.89	ug/L	98
50) Benzene	4.982	78	906746	19.55	ug/L	99
51) 1,2-Dichloroethane	5.019	62	297687	18.59	ug/L #	94
52) Iso-Butyl Alcohol	4.885	43	103959	393.32	ug/L	98
53) n-Heptane	5.476	43	234355	24.69	ug/L	96
54) Trichloroethene	5.988	130	227693	17.88	ug/L	99
55) Methylcyclohexane	6.232	55	297658	21.40	ug/L	97
56) 1,2-Diclpropane	6.281	63	252437	21.85	ug/L	98
57) Dibromomethane	6.427	93	129058	19.13	ug/L	97
58) 1,4-Dioxane	6.476	88	31561	342.14	ug/L	96
59) Methyl Methacrylate	6.482	69	101539	20.41	ug/L	95
60) Bromodichloromethane	6.641	83	308092	18.54	ug/L	98
62) 2-Chloroethylvinyl Ether	7.025	63	90425	22.28	ug/L	99
63) cis-1,3-Dichloropropene	7.165	75	357304	20.61	ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	126617	19.78	ug/L	97
66) Toluene	7.518	91	950289	18.74	ug/L	100
67) trans-1,3-Dichloropropene	7.762	75	294081	19.70	ug/L	96
68) Ethyl Methacrylate	7.884	69	212256	20.69	ug/L	98
69) 1,1,2-Trichloroethane	7.945	97	177686	19.85	ug/L	98
72) Tetrachloroethene	8.067	164	177081	16.55	ug/L	95
73) 2-Hexanone	8.213	43	85025	17.95	ug/L	97
74) 1,3-Dichloropropane	8.104	76	314026	19.29	ug/L	98
75) Dibromochloromethane	8.317	129	223065	18.20	ug/L	98
76) 1,2-Dibromoethane	8.415	107	175980	18.50	ug/L	98
77) Chlorobenzene	8.884	112	655015	18.35	ug/L	100
78) 1,1,1,2-Tetrachloroethane	8.963	131	226131	17.74	ug/L	96
79) Ethylbenzene	8.994	106	329608	18.30	ug/L	99
80) (m+p)Xylene	9.097	106	829202	38.01	ug/L	99
81) o-Xylene	9.445	106	402397	19.31	ug/L	98
82) Styrene	9.457	104	703467	19.77	ug/L	97
83) Bromoform	9.609	173	132518	17.63	ug/L	97
84) Isopropylbenzene	9.768	105	1006010	18.71	ug/L	99
85) Cyclohexanone	9.841	55	313017	321.38	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.073	53	49560	25.62	ug/L	95
88) 1,1,2,2-Tetrachloroethane	10.024	83	226832	20.66	ug/L	100
89) Bromobenzene	10.018	156	271690	17.89	ug/L	94
91) 1,2,3-Trichloropropane	10.054	110	59846	18.24	ug/L	92
92) n-Propylbenzene	10.115	91	1236573	18.82	ug/L	99
93) 2-Chlorotoluene	10.183	91	763803	18.57	ug/L	99
94) 4-Chlorotoluene	10.274	91	917397	18.88	ug/L	97
95) 1,3,5-Trimethylbenzene	10.262	105	874642	18.67	ug/L	99
96) tert-Butylbenzene	10.530	119	698336	18.20	ug/L	99
97) 1,2,4-Trimethylbenzene	10.573	105	908736	18.76	ug/L	100
98) sec-Butylbenzene	10.713	105	1068522	19.03	ug/L	100
99) p-Isopropyltoluene	10.829	119	903410	18.46	ug/L	99

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\070908\B0999.D Vial: 1
 Acq On : 9 Jul 2008 1:32 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 09 13:46:21 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	536964	17.93	ug/L	99
101) 1,4-Dclbenz	10.865	146	554658	17.90	ug/L	97
103) n-Butylbenzene	11.152	91	835360	19.73	ug/L	99
104) 1,2-Dclbenz	11.164	146	517821	18.36	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	38051	15.88	ug/L	99
107) 1,2,4-Tcbenzene	12.237	180	356516	18.52	ug/L	99
108) Hexachlorobt	12.335	225	145119	18.57	ug/L	99
109) Naphthalen	12.377	128	709787	17.22	ug/L	99
110) 1,2,3-Tclbenzene	12.517	180	324337	18.40	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1119771 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/10/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20	UG/L
BENZENE	1.0	18	UG/L
BROMOBENZENE	2.0	18	UG/L
BROMOCHLOROMETHANE	2.0	20	UG/L
BROMODICHLOROMETHANE	1.0	17	UG/L
BROMOFORM	1.0	17	UG/L
BROMOMETHANE	2.0	18	UG/L
2-BUTANONE (MEK)	10	16	UG/L
TERT-BUTYL ALCOHOL	100	360	UG/L
METHYL-TERT-BUTYL ETHER	1.0	20	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	23	UG/L
TERT-BUTYLBENZENE	2.0	18	UG/L
SEC-BUTYLBENZENE	2.0	18	UG/L
N-BUTYLBENZENE	5.0	19	UG/L
CARBON TETRACHLORIDE	1.0	15	UG/L
CHLOROBENZENE	1.0	18	UG/L
CHLOROETHANE	2.0	18	UG/L
CHLOROFORM	1.0	19	UG/L
CHLOROMETHANE	2.0	18	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	16	UG/L
2-CHLOROTOLUENE	5.0	18	UG/L
4-CHLOROTOLUENE	5.0	18	UG/L
DIBROMOCHLOROMETHANE	1.0	18	UG/L
1,2-DIBROMOETHANE	1.0	18	UG/L
DIBROMOMETHANE	1.0	18	UG/L
1,2-DICHLOROETHANE	2.0	18	UG/L
1,4-DICHLOROETHANE	2.0	18	UG/L
1,3-DICHLOROETHANE	2.0	18	UG/L
DICHLORODIFLUOROMETHANE	1.0	21	UG/L
1,1-DICHLOROETHANE	1.0	18	UG/L
1,2-DICHLOROETHANE	1.0	16	UG/L
1,1-DICHLOROETHENE	1.0	20	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	19	UG/L
CIS-1,2-DICHLOROETHENE	1.0	20	UG/L
2,2-DICHLOROPROPANE	2.0	18	UG/L
1,2-DICHLOROPROPANE	1.0	20	UG/L
1,3-DICHLOROPROPANE	2.0	18	UG/L
1,1-DICHLOROPROPENE	2.0	18	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	19	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	19	UG/L
ETHYLBENZENE	1.0	18	UG/L
HEXACHLOROBUTADIENE	5.0	19	UG/L
2-HEXANONE	10	14	UG/L
DI-ISOPROPYL ETHER	1.0	21	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1119771 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/10/08			
ANALYTICAL DILUTION: 1.00			
ISOPROPYLBENZENE	2.0	18	UG/L
P-ISOPROPYLTOLUENE	2.0	18	UG/L
TERT-AMYL-METHYL ETHER	1.0	23	UG/L
METHYLENE CHLORIDE	2.0	19	UG/L
NAPHTHALENE	2.0	17	UG/L
4-METHYL-2-PENTANONE	10	15	UG/L
N-PROPYLBENZENE	2.0	18	UG/L
STYRENE	1.0	19	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	17	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	20	UG/L
TETRACHLOROETHENE	1.0	17	UG/L
TOLUENE	1.0	18	UG/L
1,2,4-TRICHLOROBENZENE	2.0	18	UG/L
1,2,3-TRICHLOROBENZENE	2.0	18	UG/L
1,1,1-TRICHLOROETHANE	1.0	17	UG/L
1,1,2-TRICHLOROETHANE	1.0	19	UG/L
TRICHLOROETHENE	1.0	18	UG/L
TRICHLOROFLUOROMETHANE	1.0	16	UG/L
1,2,3-TRICHLOROPROPANE	2.0	17	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	18	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	18	UG/L
VINYL CHLORIDE	1.0	18	UG/L
M+P-XYLENE	2.0	37	UG/L
O-XYLENE	1.0	19	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	108	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	91	%

Sample : LCS
 Data File : J:\ACQU\DATA\MSVOA10\DATA\071008\B1024.D Vial: 1
 Acq On : 10 Jul 2008 1:30 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

1119771 1.0

FW
7/14/08

Quant Time: Jul 10 13:44:39 2008
 Quant Method : J:\ACQU\DATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Pentafluorobenzene	4.434	168	1472263	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2387297	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2252572	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1229542	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	729862	45.71	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	91.42%		
49) surr1,1,2-dichloroetha...	4.891	65	651677	43.43	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	86.86%		
65) SURR3,Toluene-d8	7.445	98	2810276	54.08	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.16%		
70) SURR2,BFB	9.896	95	1160762	54.24	ug/L	0.00	
Spiked Amount	50.000		Recovery	=	108.48%		
Target Compounds							
2) Dichlorodifluoromethane	1.178	85	248260	21.09	ug/L	99	Qvalue
4) Chloromethane	1.294	50	196485	17.97	ug/L	99	
5) Vinyl Chloride	1.355	62	201032	17.82	ug/L	99	
6) Bromomethane	1.556	94	144376	17.91	ug/L	99	
7) Chloroethane	1.611	64	113301	18.06	ug/L	99	
8) Freon 21	1.721	67	369183	17.46	ug/L	99	
9) Trichlorofluoromethane	1.764	101	311999	15.81	ug/L	99	
10) Diethyl Ether	1.934	59	125464	18.86	ug/L	92	
11) Freon 123a	1.928	67	181641	14.23	ug/L	94	
12) Freon 123	1.965	83	243060	15.74	ug/L	98	
13) Acrolein	2.026	56	62503	71.49	ug/L	98	
14) 1,1-Dicethene	2.099	96	199567	20.09	ug/L	91	
15) Freon 113	2.093	101	206081	19.42	ug/L	98	
16) Acetone	2.123	43	36558	20.12	ug/L	86	
17) 2-Propanol	2.196	45	130842	338.72	ug/L	99	
18) Iodomethane	2.215	142	284680	19.13	ug/L	93	
19) Carbon Disulfide	2.276	76	655243	17.21	ug/L	99	
20) Acetonitrile	2.324	40	26129	102.81	ug/L	84	
21) Allyl Chloride	2.355	76	110404	19.94	ug/L	68	
22) Methyl Acetate	2.355	43	110559	20.83	ug/L	93	
23) Methylene Chloride	2.446	84	235659	19.11	ug/L	89	
24) TBA	2.507	59	220184	359.27	ug/L	95	
25) Acrylonitrile	2.635	53	251387	100.38	ug/L	99	
26) Methyl-t-Butyl Ether	2.666	73	506978	20.15	ug/L	99	
27) trans-1,2-Dichloroethene	2.678	96	219994	19.34	ug/L	91	
28) 1,1-Dicethane	3.062	63	382575	18.26	ug/L	99	
29) Vinyl Acetate	3.099	86	19014	16.12	ug/L	83	
30) DIPE	3.117	45	635194	20.81	ug/L	84	
31) 2-Chloro-1,3-Butadiene	3.154	53	275076	16.92	ug/L	80	
32) ETBE	3.513	59	645536	22.70	ug/L	98	
33) 2,2-Dichloropropane	3.702	77	276234	18.46	ug/L	98	
34) cis-1,2-Dichloroethene	3.696	96	248872	20.27	ug/L	87	
35) 2-Butanone	3.708	43	49848	16.36	ug/L #	90	
37) Propionitrile	3.788	54	93388	99.14	ug/L	97	
38) Bromochloromethane	4.001	130	150713	19.60	ug/L	97	

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\071008\B1024.D Vial: 1
 Acq On : 10 Jul 2008 1:30 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 10 13:44:39 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.989	67	61074	23.23	ug/L	86
40) Tetrahydrofuran	4.068	42	32608	18.64	ug/L #	76
41) Chloroform	4.117	83	405340	18.98	ug/L	97
42) 1,1,1-Trichloroethane	4.385	97	322365	16.88	ug/L	97
43) TAME	5.208	73	536500	22.83	ug/L	94
45) Cyclohexane	4.464	41	150208	15.05	ug/L	96
47) Carbontetrachloride	4.641	121	90972	15.41	ug/L	98
48) 1,1-Dichloropropene	4.641	75	299513	17.71	ug/L	94
50) Benzene	4.989	78	891238	18.53	ug/L	94
51) 1,2-Dichloroethane	5.019	62	264631	15.93	ug/L	99
52) Iso-Butyl Alcohol	4.885	43	84084	320.58	ug/L	89
53) n-Heptane	5.476	43	185266	18.82	ug/L #	90
54) Trichloroethene	5.988	130	234545	17.76	ug/L	99
55) Methylcyclohexane	6.238	55	251776	17.45	ug/L	87
56) 1,2-Diclp propane	6.281	63	233827	19.52	ug/L	100
57) Dibromomethane	6.427	93	127859	18.27	ug/L	97
58) 1,4-Dioxane	6.476	88	33510	350.25	ug/L	100
59) Methyl Methacrylate	6.482	69	103560	20.09	ug/L	86
60) Bromodichloromethane	6.641	83	293881	17.05	ug/L	99
62) 2-Chloroethylvinyl Ether	7.025	63	87774	20.84	ug/L	97
63) cis-1,3-Dichloropropene	7.165	75	350228	19.48	ug/L	100
64) 4-Methyl-2-pentanone	7.354	43	101414	15.27	ug/L #	91
66) Toluene	7.519	91	959599	18.25	ug/L	99
67) trans-1,3-Dichloropropene	7.769	75	290316	18.75	ug/L	98
68) Ethyl Methacrylate	7.884	69	211606	19.95	ug/L	87
69) 1,1,2-Trichloroethane	7.945	97	179221	19.31	ug/L	99
72) Tetrachloroethene	8.073	164	187022	16.65	ug/L	99
73) 2-Hexanone	8.214	43	70734	14.23	ug/L #	90
74) 1,3-Dichloropropane	8.104	76	310164	18.15	ug/L	91
75) Dibromochloromethane	8.317	129	227414	17.68	ug/L	98
76) 1,2-Dibromoethane	8.415	107	183027	18.33	ug/L	99
77) Chlorobenzene	8.884	112	668073	17.83	ug/L	97
78) 1,1,1,2-Tetrachloroethane	8.963	131	228821	17.10	ug/L	96
79) Ethylbenzene	8.994	106	338437	17.90	ug/L	93
80) (m+p) Xylene	9.098	106	846055	36.94	ug/L	99
81) o-Xylene	9.445	106	410881	18.79	ug/L	96
82) Styrene	9.457	104	703406	18.83	ug/L	99
83) Bromoform	9.616	173	133332	16.90	ug/L	99
84) Isopropylbenzene	9.768	105	1021835	18.10	ug/L	98
85) Cyclohexanone	9.841	55	342826	335.32	ug/L	93
86) trans-1,4-Dichloro-2-B...	10.073	53	42410	20.88	ug/L #	84
88) 1,1,2,2-Tetrachloroethane	10.024	83	225992	19.90	ug/L	99
89) Bromobenzene	10.018	156	283763	18.08	ug/L	98
91) 1,2,3-Trichloropropane	10.055	110	56899	16.77	ug/L	90
92) n-Propylbenzene	10.116	91	1225449	18.04	ug/L	99
93) 2-Chlorotoluene	10.183	91	761330	17.90	ug/L	97
94) 4-Chlorotoluene	10.274	91	909644	18.11	ug/L	97
95) 1,3,5-Trimethylbenzene	10.262	105	874144	18.04	ug/L	98
96) tert-Butylbenzene	10.530	119	714973	18.02	ug/L	98
97) 1,2,4-Trimethylbenzene	10.573	105	912259	18.21	ug/L	97
98) sec-Butylbenzene	10.707	105	1079394	18.59	ug/L	99
99) p-Isopropyltoluene	10.829	119	920991	18.20	ug/L	97

Sample : LCS
 Data File : J:\ACQUDATA\MSVOA10\DATA\071008\B1024.D Vial: 1
 Acq On : 10 Jul 2008 1:30 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc :

Quant Time: Jul 10 13:44:39 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	546355	17.64	ug/L	99
101) 1,4-Dclbenz	10.865	146	565631	17.65	ug/L	98
103) n-Butylbenzene	11.152	91	830837	18.97	ug/L	100
104) 1,2-Dclbenz	11.164	146	527624	18.09	ug/L	100
105) 1,2-Dibromo-3-chloropr...	11.719	157	40501	16.34	ug/L	97
107) 1,2,4-Tcbenzene	12.237	180	368632	18.52	ug/L	98
108) Hexachlorobt	12.335	225	150874	18.67	ug/L	99
109) Naphthalen	12.377	128	736251	17.27	ug/L	99
110) 1,2,3-Tclbenzene	12.512	180	333827	18.31	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : MATRIX SPIKE

Date Sampled : Order #: 1119494 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	61	UG/L
BENZENE	1.0	57	UG/L
BROMOBENZENE	2.0	50	UG/L
BROMOCHLOROMETHANE	2.0	54	UG/L
BROMODICHLOROMETHANE	1.0	53	UG/L
BROMOFORM	1.0	50	UG/L
BROMOMETHANE	2.0	56	UG/L
2-BUTANONE (MEK)	10	61	UG/L
TERT-BUTYL ALCOHOL	100	1200	UG/L
METHYL-TERT-BUTYL ETHER	1.0	61	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	65	UG/L
TERT-BUTYLBENZENE	2.0	55	UG/L
SEC-BUTYLBENZENE	2.0	55	UG/L
N-BUTYLBENZENE	5.0	57	UG/L
CARBON TETRACHLORIDE	1.0	52	UG/L
CHLOROBENZENE	1.0	52	UG/L
CHLOROETHANE	2.0	65	UG/L
CHLOROFORM	1.0	61	UG/L
CHLOROMETHANE	2.0	73	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	47	UG/L
2-CHLOROTOLUENE	5.0	54	UG/L
4-CHLOROTOLUENE	5.0	55	UG/L
DIBROMOCHLOROMETHANE	1.0	52	UG/L
1,2-DIBROMOETHANE	1.0	52	UG/L
DIBROMOMETHANE	1.0	53	UG/L
1,2-DICHLOROBENZENE	2.0	51	UG/L
1,4-DICHLOROBENZENE	2.0	50	UG/L
1,3-DICHLOROBENZENE	2.0	50	UG/L
DICHLORODIFLUOROMETHANE	1.0	75	UG/L
1,1-DICHLOROETHANE	1.0	63	UG/L
1,2-DICHLOROETHANE	1.0	53	UG/L
1,1-DICHLOROETHENE	1.0	63	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	59	UG/L
CIS-1,2-DICHLOROETHENE	1.0	59	UG/L
2,2-DICHLOROPROPANE	2.0	46	UG/L
1,2-DICHLOROPROPANE	1.0	61	UG/L
1,3-DICHLOROPROPANE	2.0	55	UG/L
1,1-DICHLOROPROPENE	2.0	59	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	56	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	57	UG/L
ETHYLBENZENE	1.0	55	UG/L
HEXACHLOROBUTADIENE	5.0	43	UG/L
2-HEXANONE	10	58	UG/L
DI-ISOPROPYL ETHER	1.0	71	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : MATRIX SPIKE

Date Sampled : Order #: 1119494 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	58	UG/L
P-ISOPROPYLTOLUENE	2.0	54	UG/L
TERT-AMYL-METHYL ETHER	1.0	62	UG/L
METHYLENE CHLORIDE	2.0	55	UG/L
NAPHTHALENE	2.0	51	UG/L
4-METHYL-2-PENTANONE	10	62	UG/L
N-PROPYLBENZENE	2.0	56	UG/L
STYRENE	1.0	51	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	51	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	58	UG/L
TETRACHLOROETHENE	1.0	50	UG/L
TOLUENE	1.0	55	UG/L
1,2,4-TRICHLOROBENZENE	2.0	50	UG/L
1,2,3-TRICHLOROBENZENE	2.0	50	UG/L
1,1,1-TRICHLOROETHANE	1.0	56	UG/L
1,1,2-TRICHLOROETHANE	1.0	54	UG/L
TRICHLOROETHENE	1.0	52	UG/L
TRICHLOROFLUOROMETHANE	1.0	58	UG/L
1,2,3-TRICHLOROPROPANE	2.0	50	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	55	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	55	UG/L
VINYL CHLORIDE	1.0	70	UG/L
M+P-XYLENE	2.0	110	UG/L
O-XYLENE	1.0	57	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(70 - 130 %)	114	%
TOLUENE-D8	(70 - 130 %)	112	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Sample : 1112874 1.0 MS
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0919.D Vial: 18
 Acq On : 3 Jul 2008 9:24 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

111949241.0

7/15/08

Vinyl chloride
out ↑

7/15/08

Quant Time: Jul 03 21:38:43 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Pentafluorobenzene	4.434	168	1356689	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2229498	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2086457	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1170118	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4, Dibromomethane	4.348	113	704011	47.75	ug/L	0.00	
Spiked Amount	50.000			Recovery =	95.50%		
49) surr1, 1,2-dichloroetha...	4.891	65	753787	53.79	ug/L	0.00	
Spiked Amount	50.000			Recovery =	107.58%		
65) SURR3, Toluene-d8	7.445	98	2718774	56.02	ug/L	0.00	
Spiked Amount	50.000			Recovery =	112.04%		
70) SURR2, BFB	9.896	95	1138390	56.96	ug/L	0.00	
Spiked Amount	50.000			Recovery =	113.92%		
Target Compounds							
2) Dichlorodifluoromethane	1.184	85	809864	74.65	ug/L	99	
4) Chloromethane	1.294	50	736368	73.10	ug/L	100	
5) Vinyl Chloride	1.355	62	723109	69.55	ug/L	98	*
6) Bromomethane	1.556	94	413368	55.66	ug/L	98	
7) Chloroethane	1.611	64	376251	65.07	ug/L	98	
8) Freon 21	1.721	67	1224302	62.85	ug/L	100	
9) Trichlorofluoromethane	1.769	101	1055499	58.04	ug/L	99	
10) Diethyl Ether	1.934	59	397391	64.82	ug/L	96	
11) Freon 123a	1.928	67	605087	51.42	ug/L	86	
12) Freon 123	1.971	83	758481	53.31	ug/L	99	
13) Acrolein	2.026	56	206723	256.57	ug/L	97	
14) 1,1-Dicethene	2.105	96	573836	62.69	ug/L	99	
15) Freon 113	2.093	101	595717	60.93	ug/L	95	
16) Acetone	2.123	43	102370	61.15	ug/L	95	
17) 2-Propanol	2.196	45	446226	1253.59	ug/L	100	
18) Iodomethane	2.221	142	788725	57.52	ug/L	98	
19) Carbon Disulfide	2.275	76	2027975	57.79	ug/L	99	
20) Acetonitrile	2.324	40	74999	320.22	ug/L	94	
21) Allyl Chloride	2.355	76	312876	61.32	ug/L	91	
22) Methyl Acetate	2.355	43	298488	61.02	ug/L	97	
23) Methylene Chloride	2.446	84	625752	55.07	ug/L	91	
24) TBA	2.507	59	680023	1204.10	ug/L	92	
25) Acrylonitrile	2.641	53	792323	343.33	ug/L	98	
26) Methyl-t-Butyl Ether	2.666	73	1414206	61.00	ug/L	97	
27) trans-1,2-Dichloroethene	2.678	96	619415	59.09	ug/L	95	
28) 1,1-Dicethane	3.062	63	1218877	63.13	ug/L	99	
29) Vinyl Acetate	3.098	86	40775	34.37	ug/L	48	
30) DIPE	3.117	45	1987300	70.65	ug/L #	84	
31) 2-Chloro-1,3-Butadiene	3.153	53	1012642	67.59	ug/L	99	
32) ETBE	3.519	59	1711393	65.31	ug/L	97	
33) 2,2-Dichloropropane	3.702	77	639434	46.36	ug/L	98	
34) cis-1,2-Dichloroethene	3.702	96	666951	58.94	ug/L	100	
35) 2-Butanone	3.714	43	171536	61.10	ug/L	97	
37) Propionitrile	3.787	54	289225	333.19	ug/L	97	
38) Bromochloromethane	4.007	130	382618	54.01	ug/L	87	

Sample : 1112874 1.0 MS
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0919.D Vial: 18
 Acq On : 3 Jul 2008 9:24 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 21:38:43 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	169536	69.98	ug/L	99
40) Tetrahydrofuran	4.074	42	109509	67.93	ug/L	98
41) Chloroform	4.117	83	1200135	60.97	ug/L	99
42) 1,1,1-Trichloroethane	4.385	97	980558	55.71	ug/L	97
43) TAME	5.208	73	1344168	62.07	ug/L	97
45) Cyclohexane	4.470	41	525306	56.35	ug/L	98
47) Carbontetrachloride	4.641	121	285711	51.81	ug/L	90
48) 1,1-Dichloropropene	4.647	75	936106	59.26	ug/L	98
50) Benzene	4.988	78	2561052	57.01	ug/L	99
51) 1,2-Dichloroethane	5.025	62	828695	53.43	ug/L	96
52) Iso-Butyl Alcohol	4.885	43	311568	1085.24	ug/L	97
53) n-Heptane	5.476	43	553267	60.17	ug/L	94
54) Trichloroethene	5.994	130	637979	51.73	ug/L	99
55) Methylcyclohexane	6.238	55	759267	56.35	ug/L	94
56) 1,2-Diclpropane	6.281	63	680634	60.83	ug/L	100
57) Dibromomethane	6.427	93	345065	52.80	ug/L	94
58) 1,4-Dioxane	6.482	88	92587	1036.22	ug/L	98
59) Methyl Methacrylate	6.482	69	307069	60.64	ug/L	94
60) Bromodichloromethane	6.640	83	851577	52.91	ug/L	99
63) cis-1,3-Dichloropropene	7.165	75	959045	57.12	ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	386101	62.26	ug/L	97
66) Toluene	7.518	91	2718090	55.35	ug/L	100
67) trans-1,3-Dichloropropene	7.768	75	812905	56.23	ug/L	99
68) Ethyl Methacrylate	7.884	69	650900	62.14	ug/L	94
69) 1,1,2-Trichloroethane	7.945	97	472509	54.51	ug/L	97
72) Tetrachloroethene	8.073	164	516726	49.66	ug/L	97
73) 2-Hexanone	8.213	43	266931	57.96	ug/L	98
74) 1,3-Dichloropropane	8.104	76	867829	54.82	ug/L	97
75) Dibromochloromethane	8.317	129	616473	51.74	ug/L	99
76) 1,2-Dibromoethane	8.415	107	485000	52.43	ug/L	98
77) Chlorobenzene	8.884	112	1800499	51.88	ug/L	99
78) 1,1,1,2-Tetrachloroethane	8.963	131	629986	50.84	ug/L	97
79) Ethylbenzene	8.994	106	959263	54.77	ug/L	98
80) (m+p)Xylene	9.097	106	2385607	112.47	ug/L	95
81) o-Xylene	9.445	106	1156357	57.09	ug/L	99
82) Styrene	9.463	104	1750670	50.60	ug/L	99
83) Bromoform	9.616	173	365395	50.00	ug/L	99
84) Isopropylbenzene	9.768	105	3015462	57.67	ug/L	100
85) Cyclohexanone	9.841	55	305496	322.60	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.073	53	137835	73.28	ug/L	99
88) 1,1,2,2-Tetrachloroethane	10.024	83	621637	57.53	ug/L	99
89) Bromobenzene	10.018	156	749516	50.17	ug/L	95
91) 1,2,3-Trichloropropane	10.054	110	162245	50.25	ug/L	89
92) n-Propylbenzene	10.115	91	3658461	56.58	ug/L	99
93) 2-Chlorotoluene	10.182	91	2195761	54.24	ug/L	99
94) 4-Chlorotoluene	10.274	91	2634940	55.12	ug/L	100
95) 1,3,5-Trimethylbenzene	10.262	105	2551530	55.34	ug/L	100
96) tert-Butylbenzene	10.530	119	2091863	55.41	ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	2644424	55.47	ug/L	100
98) sec-Butylbenzene	10.713	105	3050870	55.21	ug/L	99
99) p-Isopropyltoluene	10.829	119	2606346	54.13	ug/L	99
100) 1,3-Dclbenz	10.798	146	1467130	49.78	ug/L	99

Sample : 1112874 1.0 MS
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0919.D Vial: 18
 Acq On : 3 Jul 2008 9:24 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

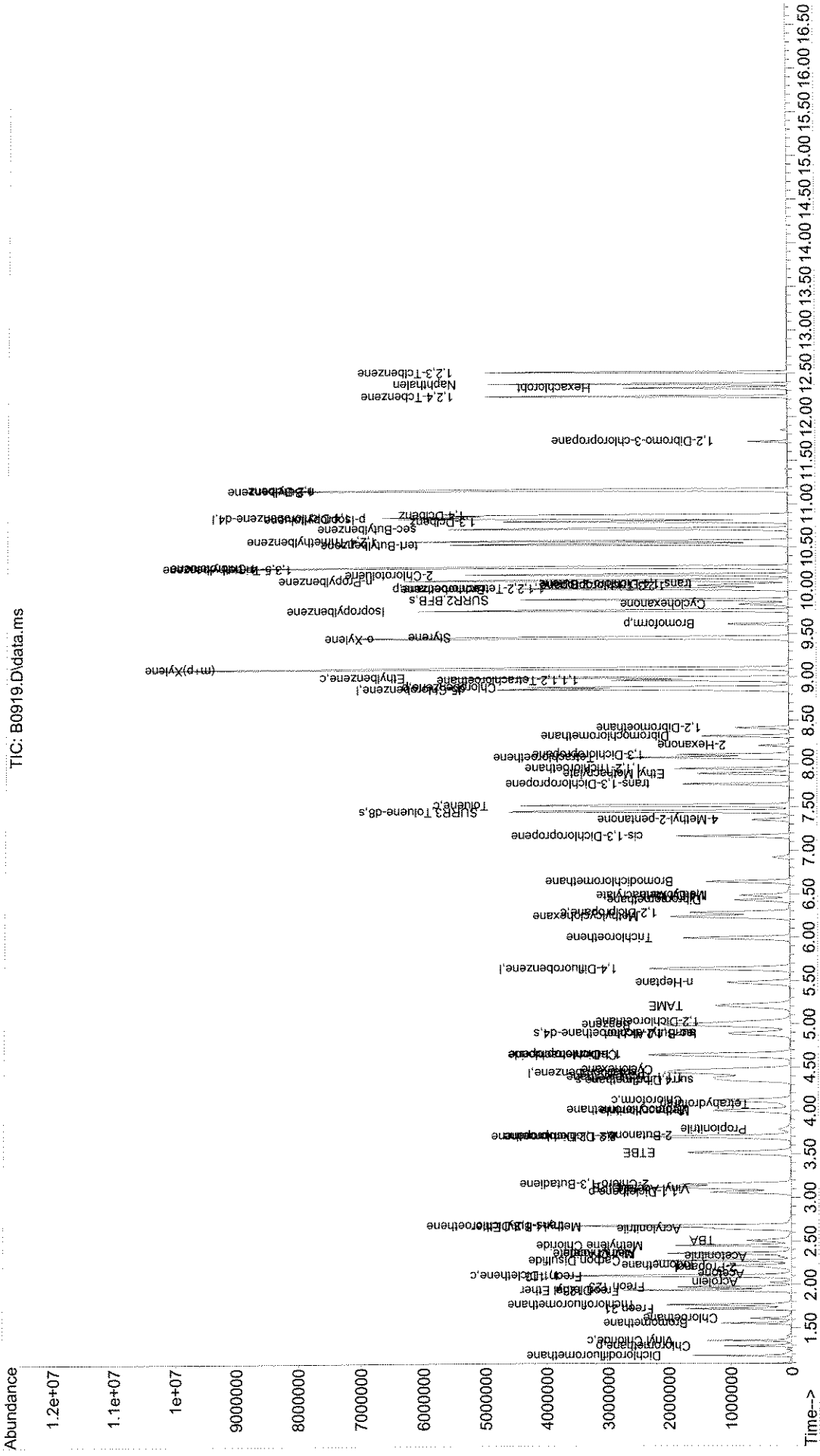
Quant Time: Jul 03 21:38:43 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,4-Dclbenz	10.871	146	1517389	49.76	ug/L	100
103) n-Butylbenzene	11.152	91	2370406	56.88	ug/L	99
104) 1,2-Dclbenz	11.164	146	1406365	50.68	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	111796	47.41	ug/L	95
107) 1,2,4-Tcbenzene	12.237	180	957299	50.54	ug/L	99
108) Hexachlorobt	12.334	225	329329	42.82	ug/L	98
109) Naphthalen	12.377	128	2097984	50.65	ug/L	99
110) 1,2,3-Tclbenzene	12.511	180	870299	50.17	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : 1112874 1.0 MS
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0919.D Vial: 18
 Acq On : 3 Jul 2008 9:24 pm
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Quant Time: Jul 03 21:38:43 2008
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 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled : Order #: 1119495 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	67	UG/L
BENZENE	1.0	56	UG/L
BROMOBENZENE	2.0	49	UG/L
BROMOCHLOROMETHANE	2.0	53	UG/L
BROMODICHLOROMETHANE	1.0	51	UG/L
BROMOFORM	1.0	48	UG/L
BROMOMETHANE	2.0	54	UG/L
2-BUTANONE (MEK)	10	58	UG/L
TERT-BUTYL ALCOHOL	100	1200	UG/L
METHYL-TERT-BUTYL ETHER	1.0	59	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	64	UG/L
TERT-BUTYLBENZENE	2.0	55	UG/L
SEC-BUTYLBENZENE	2.0	55	UG/L
N-BUTYLBENZENE	5.0	56	UG/L
CARBON TETRACHLORIDE	1.0	50	UG/L
CHLOROBENZENE	1.0	51	UG/L
CHLOROETHANE	2.0	64	UG/L
CHLOROFORM	1.0	59	UG/L
CHLOROMETHANE	2.0	72	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	47	UG/L
2-CHLOROTOLUENE	5.0	54	UG/L
4-CHLOROTOLUENE	5.0	54	UG/L
DIBROMOCHLOROMETHANE	1.0	50	UG/L
1,2-DIBROMOETHANE	1.0	50	UG/L
DIBROMOMETHANE	1.0	51	UG/L
1,2-DICHLOROBENZENE	2.0	50	UG/L
1,4-DICHLOROBENZENE	2.0	50	UG/L
1,3-DICHLOROBENZENE	2.0	50	UG/L
DICHLORODIFLUOROMETHANE	1.0	72	UG/L
1,1-DICHLOROETHANE	1.0	61	UG/L
1,2-DICHLOROETHANE	1.0	51	UG/L
1,1-DICHLOROETHENE	1.0	61	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	58	UG/L
CIS-1,2-DICHLOROETHENE	1.0	57	UG/L
2,2-DICHLOROPROPANE	2.0	44	UG/L
1,2-DICHLOROPROPANE	1.0	60	UG/L
1,3-DICHLOROPROPANE	2.0	53	UG/L
1,1-DICHLOROPROPENE	2.0	58	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	54	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	56	UG/L
ETHYLBENZENE	1.0	54	UG/L
HEXACHLOROBUTADIENE	5.0	43	UG/L
2-HEXANONE	10	56	UG/L
DI-ISOPROPYL ETHER	1.0	68	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/25/08

Project Reference:
 Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled : Order #: 1119495 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164307

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
ISOPROPYLBENZENE	2.0	57	UG/L
P-ISOPROPYLTOLUENE	2.0	54	UG/L
TERT-AMYL-METHYL ETHER	1.0	62	UG/L
METHYLENE CHLORIDE	2.0	53	UG/L
NAPHTHALENE	2.0	49	UG/L
4-METHYL-2-PENTANONE	10	60	UG/L
N-PROPYLBENZENE	2.0	56	UG/L
STYRENE	1.0	47	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	50	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	55	UG/L
TETRACHLOROETHENE	1.0	49	UG/L
TOLUENE	1.0	54	UG/L
1,2,4-TRICHLOROBENZENE	2.0	50	UG/L
1,2,3-TRICHLOROBENZENE	2.0	50	UG/L
1,1,1-TRICHLOROETHANE	1.0	54	UG/L
1,1,2-TRICHLOROETHANE	1.0	53	UG/L
TRICHLOROETHENE	1.0	52	UG/L
TRICHLOROFLUOROMETHANE	1.0	55	UG/L
1,2,3-TRICHLOROPROPANE	2.0	49	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	54	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	55	UG/L
VINYL CHLORIDE	1.0	67	UG/L
M+P-XYLENE	2.0	110	UG/L
O-XYLENE	1.0	56	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	111	%
TOLUENE-D8	(70 - 130 %)	111	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Sample : 1112874 1.0 MSD
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0920.D
 Acq On : 3 Jul 2008 9:54 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Vial: 19

119495 1.0

*Vinyl chloride
out ↑*

*FU
7/15/08*

Quant Time: Jul 03 22:08:28 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1426292	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	2320424	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.854	117	2162012	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1198940	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	727692	47.31	ug/L	0.00
Spiked Amount	50.000		Recovery	=	94.62%	
49) surr1,1,2-dichloroetha...	4.891	65	757179	51.91	ug/L	0.00
Spiked Amount	50.000		Recovery	=	103.82%	
65) SURR3,Toluene-d8	7.445	98	2800549	55.44	ug/L	0.00
Spiked Amount	50.000		Recovery	=	110.88%	
70) SURR2,BFB	9.896	95	1154546	55.50	ug/L	0.00
Spiked Amount	50.000		Recovery	=	111.00%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.184	85	818754	71.79	ug/L	99
4) Chloromethane	1.294	50	764876	72.22	ug/L	100
5) Vinyl Chloride	1.355	62	737180	67.44	ug/L	100 *
6) Bromomethane	1.556	94	422741	54.14	ug/L	99
7) Chloroethane	1.611	64	386733	63.62	ug/L	99
8) Freon 21	1.721	67	1256214	61.34	ug/L	99
9) Trichlorofluoromethane	1.764	101	1052662	55.06	ug/L	99
10) Diethyl Ether	1.934	59	404585	62.77	ug/L	97
11) Freon 123a	1.928	67	623102	50.37	ug/L	88
12) Freon 123	1.971	83	779569	52.12	ug/L	99
13) Acrolein	2.026	56	200912	237.19	ug/L	99
14) 1,1-Dicethene	2.105	96	583226	60.60	ug/L	99
15) Freon 113	2.093	101	596979	58.08	ug/L	97
16) Acetone	2.123	43	118559	67.37	ug/L	96
17) 2-Propanol	2.196	45	457815	1223.39	ug/L	100
18) Iodomethane	2.221	142	841263	58.35	ug/L	96
19) Carbon Disulfide	2.276	76	2073727	56.21	ug/L	99
20) Acetonitrile	2.325	40	81811	332.26	ug/L	91
21) Allyl Chloride	2.355	76	328127	61.17	ug/L	92
22) Methyl Acetate	2.355	43	285310	55.48	ug/L	98
23) Methylene Chloride	2.446	84	638853	53.48	ug/L	93
24) TBA	2.507	59	695553	1171.50	ug/L	96
25) Acrylonitrile	2.642	53	781813	322.24	ug/L	98
26) Methyl-t-Butyl Ether	2.666	73	1443785	59.23	ug/L	97
27) trans-1,2-Dichloroethene	2.678	96	634587	57.58	ug/L	99
28) 1,1-Dicethane	3.062	63	1244318	61.30	ug/L	99
29) Vinyl Acetate	3.099	86	36231	29.42	ug/L	7
30) DIPE	3.117	45	2027054	68.54	ug/L #	82
31) 2-Chloro-1,3-Butadiene	3.154	53	1019432	64.72	ug/L	97
32) ETBE	3.519	59	1776337	64.48	ug/L	97
33) 2,2-Dichloropropane	3.702	77	642270	44.30	ug/L	98
34) cis-1,2-Dichloroethene	3.696	96	676234	56.85	ug/L	97
35) 2-Butanone	3.714	43	171326	58.05	ug/L	98
37) Propionitrile	3.788	54	287707	315.26	ug/L	95
38) Bromochloromethane	4.007	130	394162	52.92	ug/L	90

Sample : 1112874 1.0 MSD
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0920.D Vial: 19
 Acq On : 3 Jul 2008 9:54 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 22:08:28 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.989	67	170480	66.94	ug/L	96
40) Tetrahydrofuran	4.068	42	108561	64.06	ug/L	93
41) Chloroform	4.117	83	1216083	58.77	ug/L	98
42) 1,1,1-Trichloroethane	4.385	97	1005035	54.31	ug/L	98
43) TAME	5.208	73	1400524	61.51	ug/L	98
45) Cyclohexane	4.464	41	541361	55.80	ug/L	92
47) Carbontetrachloride	4.641	121	287568	50.10	ug/L	91
48) 1,1-Dichloropropene	4.641	75	947395	57.63	ug/L	98
50) Benzene	4.989	78	2627738	56.20	ug/L	99
51) 1,2-Dichloroethane	5.025	62	826526	51.20	ug/L	96
52) Iso-Butyl Alcohol	4.891	43	307423	1032.11	ug/L	93
53) n-Heptane	5.476	43	564869	59.03	ug/L	96
54) Trichloroethene	5.988	130	663740	51.71	ug/L	99
55) Methylcyclohexane	6.232	55	783662	55.88	ug/L	95
56) 1,2-Diclpropane	6.281	63	697402	59.88	ug/L	100
57) Dibromomethane	6.427	93	345511	50.80	ug/L	97
58) 1,4-Dioxane	6.476	88	81220	873.39	ug/L	97
59) Methyl Methacrylate	6.482	69	310982	59.04	ug/L	95
60) Bromodichloromethane	6.641	83	852885	50.92	ug/L	99
63) cis-1,3-Dichloropropene	7.165	75	971390	55.58	ug/L	100
64) 4-Methyl-2-pentanone	7.354	43	390089	60.44	ug/L	99
66) Toluene	7.519	91	2785469	54.50	ug/L	100
67) trans-1,3-Dichloropropene	7.762	75	813390	54.05	ug/L	97
68) Ethyl Methacrylate	7.884	69	662230	60.78	ug/L	96
69) 1,1,2-Trichloroethane	7.945	97	477547	52.93	ug/L	98
72) Tetrachloroethene	8.073	164	530082	49.16	ug/L	98
73) 2-Hexanone	8.214	43	265436	55.62	ug/L	99
74) 1,3-Dichloropropane	8.104	76	867903	52.91	ug/L	99
75) Dibromochloromethane	8.317	129	620628	50.27	ug/L	99
76) 1,2-Dibromoethane	8.415	107	482774	50.36	ug/L	99
77) Chlorobenzene	8.884	112	1838076	51.11	ug/L	99
78) 1,1,1,2-Tetrachloroethane	8.963	131	638741	49.75	ug/L	97
79) Ethylbenzene	8.994	106	982729	54.15	ug/L	98
80) (m+p)Xylene	9.098	106	2420936	110.14	ug/L	96
81) o-Xylene	9.445	106	1167389	55.62	ug/L	99
82) Styrene	9.457	104	1687983	47.08	ug/L	95
83) Bromoform	9.616	173	366590	48.41	ug/L	99
84) Isopropylbenzene	9.768	105	3077340	56.80	ug/L	100
85) Cyclohexanone	9.841	55	304421	310.23	ug/L	98
86) trans-1,4-Dichloro-2-B...	10.073	53	134044	68.78	ug/L	97
88) 1,1,2,2-Tetrachloroethane	10.024	83	614064	55.46	ug/L	97
89) Bromobenzene	10.018	156	755171	49.33	ug/L	96
91) 1,2,3-Trichloropropane	10.055	110	162295	49.06	ug/L	97
92) n-Propylbenzene	10.116	91	3702147	55.88	ug/L	99
93) 2-Chlorotoluene	10.183	91	2239673	54.00	ug/L	99
94) 4-Chlorotoluene	10.274	91	2653088	54.16	ug/L	100
95) 1,3,5-Trimethylbenzene	10.262	105	2575040	54.51	ug/L	99
96) tert-Butylbenzene	10.530	119	2117692	54.75	ug/L	99
97) 1,2,4-Trimethylbenzene	10.573	105	2686642	55.00	ug/L	99
98) sec-Butylbenzene	10.713	105	3117586	55.06	ug/L	100
99) p-Isopropyltoluene	10.829	119	2646486	53.64	ug/L	99
100) 1,3-Dclbenz	10.798	146	1499008	49.64	ug/L	99

Sample : 1112874 1.0 MSD
 Data File : J:\ACQUDATA\MSVOA10\DATA\070308\B0920.D Vial: 19
 Acq On : 3 Jul 2008 9:54 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

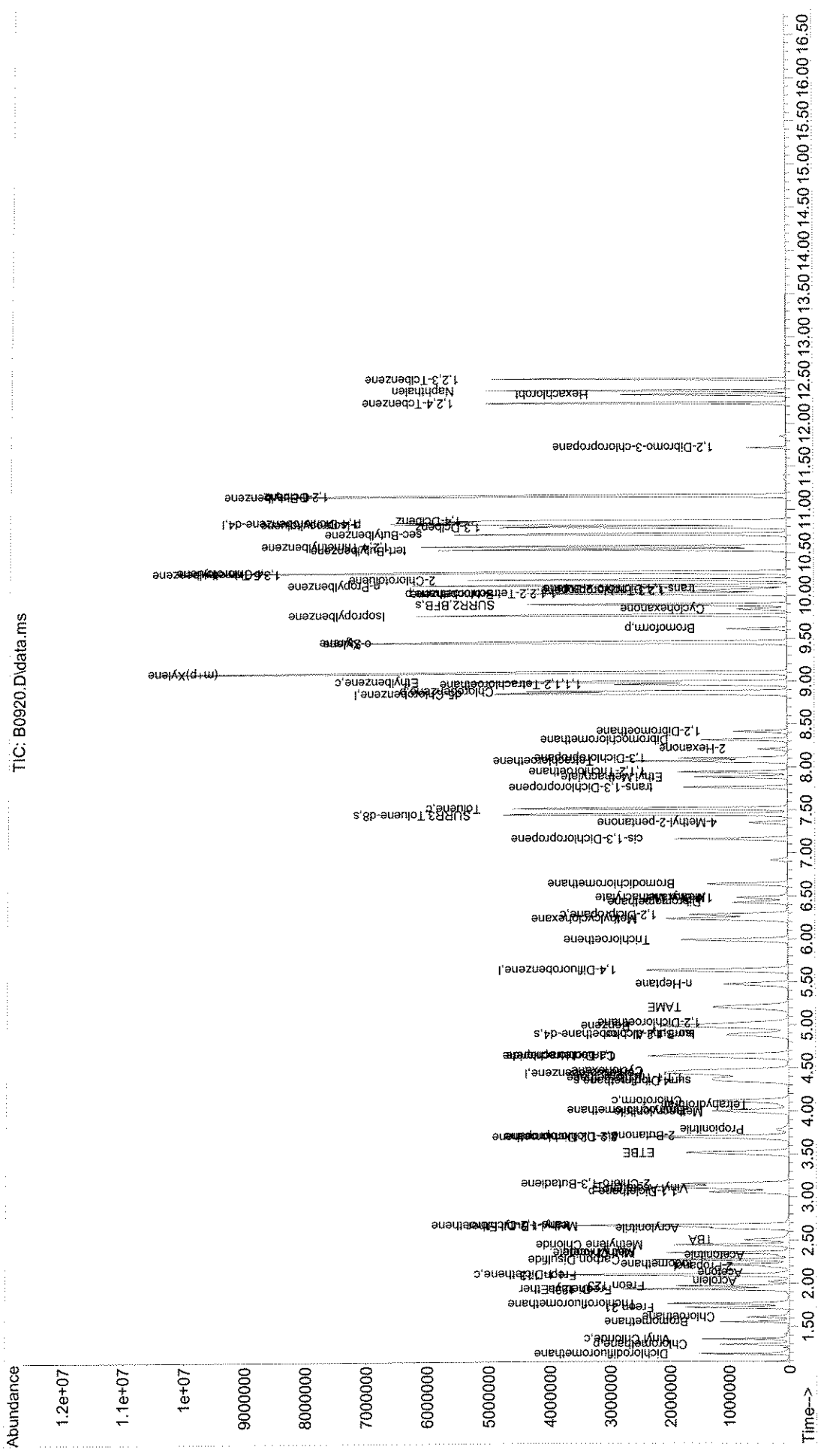
Quant Time: Jul 03 22:08:28 2008
 Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,4-Dclbenz	10.872	146	1547019	49.52	ug/L	98
103) n-Butylbenzene	11.152	91	2381703	55.78	ug/L	99
104) 1,2-Dclbenz	11.164	146	1417632	49.85	ug/L	100
105) 1,2-Dibromo-3-chloropr...	11.719	157	112782	46.68	ug/L	98
107) 1,2,4-Tcbenzene	12.237	180	972165	50.09	ug/L	99
108) Hexachlorobt	12.335	225	337132	42.79	ug/L	98
109) Naphthalen	12.377	128	2099406	49.48	ug/L	99
110) 1,2,3-Tclbenzene	12.512	180	888094	49.96	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : 1112874 1.0 MSD
 Data File : J:\ACQDATA\MSVOA10\DATA\070308\B0920.D Vial: 19
 Acq On : 3 Jul 2008 9:54 pm
 Operator : F.NAEGLER
 InstName : MSVOA10
 Misc : ENSR R-44650 8260B.DODO

Quant Time: Jul 03 22:08:28 2008
 Quant Method : J:\ACQDATA\MSVOA10\METHODS\WAT0626.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Mon Jun 30 10:06:04 2008
 Response via : Initial Calibration



128 MS#10
6/26/08

8260B.WATER
/062608/B...

T062608.M
WAT0626.M

MS#10

6/27/08

POS	SAMPLE	FILE ID	OK	COMMENTS
1	BLK	B0765	Y	
2	BLK	B0766	Y	
1	TUNE	B0767	Y _T	
2	TUNE	B0768	Y _T	
3	INST BLK	B0769	Y	
4	0.5 PPB STD	B0770	Y	
5	1.0 PPB STD	B0771	Y	
6	2.0 PPB STD	B0772	Y	
7	5.0 PPB STD	B0773	Y	
8	10 PPB STD	B0774	Y	
9	50 PPB STD	B0775	Y	
10	100 PPB STD	B0776	Y	
11	150 PPB STD	B0777	Y	
12	200 PPB STD	B0778	Y	
13	BLK	B0779	-	
14	BLK	B0780	-	
15	50 PPB ICV	B0781	Y _{al}	trans 1/4 di. H ₂ O 26 Aug ↑

POS	SAMPLE
1	BLK
2	BLK
3	TUNE
4	TUNE
5	CCU
6	HCS
7	BLK MET
8	MET BLK
9	.3 PPB
10	
11	
12	
13	
14	
15	
16	5 PPB
17	.5 PPB
18	
19	
20	
21	
22	
23	
24	

Frank R. [Signature]

CONC (PPB)	0.5	1.0	2.0	5.0	10	50	100	150	200
1° T/G 500 MSVD130J	10ml/1ml 5ul/5ul	then 10ml/5ul	2ul/5ul	5ul/5ul	2ul 10ul	5ul 5ul	10ul 5ul	15ul 5ul	20ul 5ul
1° HSL 500 MSVD143A	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° Freon 200 MSVD146N	25ul/1ml 5ul/5ul	then 10ul/5ul	2ul/5ul	5ul/5ul	5ul 10ul	12.5ul 5ul	25ul 5ul	37.5ul 5ul	50ul 5ul
1° OXY 500 MSVD146M	10ul/1ml 5ul/5ul	then 10ul/5ul	2ul/5ul	5ul/5ul	2ul 10ul	5ul 5ul	10ul 5ul	15ul 5ul	20ul 5ul
SURE 500 MSVD132D	-	-	-	1ul/5ul	4ul 10ul	-	5ul 5ul	7.5ul 5ul	10ul 5ul

2° T/G 500 MSVD145C - 5ul
 2° HSL 500 MSVD146G1 - 5ul
 2° Freon 500 MSVD138A - 5ul
 2° OXY 500 MSVD133A - 5ul
 50ml (ICV)

W.D. [Signature]

132

MS#10

8260B. WATER

T062608.M

MS#10

Run #2

6/3-128

/063-08/B...

WAT0626.M

7/1/08

PH SAMPLE

POS DIL FILE OK

COMMENTS

PH SAMPLE

BLK RUN # 164283

TUNE

TUNE

CCV

LCS

MBLK

MBLK

1119375

1119374

42 1112065-3 [R-44650 8260B.Dodo]

42 1112066-2

42 1112067-1

42 1112069-2

42 1112070-2

42 1112486-2

42 1112487-1

42 1112488-1

42 1112489-2

42 1112490-3

42 1112491-1

BS

BSD

18 - B0830 Y

19 - B0831 Y_T

20 - B0832 Y_T

21 - B0833 Y_C Acctme ↑

22 - B0834 Y_Q

23 - B0835 -

24 - B0836 Y_{MB}

25 1/1 B0837 Y

26 1/1 B0838 Y

27 1/1 B0839 Y

28 1/1 B0840 Y

29 1/1 B0841 Y

30 1/1 B0842 Y

31 1/1 B0843 Y

32 1/1 B0844 Y

33 1/1 B0845 Y

34 1/1 B0846 Y

35 1/1 B0847 Y

36 1/1 B0848 Y

37 1/1 B0849 Y

BLK

TUNE

TUNE

CCV

VBLK

VBLK

VBLKMS

42 1112477-1 [R-44]

42 1112478-1

42 1112479-1

42 1112480-2

42 1112481-2

42 1112482-1

42 1112483-2

BS

BSD

IDC 1

IDC 2

IDC 3

IDC 4

42 1112479-2 [R-445]

42 1112482-1

42 1112483-3

42 1112483-1

Tom R. P...

SURR (500) MSVD1473 - 1ml/mal (TUNE)

1^o T/G (500) MSVD1395 - 5ml

1^o HSL (500) MSVD143A - 5ml

1^o Freon (200) MSVD146N - 12.5ml

1^o Oxy (500) MSVD146M - 5ml

50ml (CCV)

2^o T/G (500) MSVD145L - 2ml

2^o HSL (500) MSVD146G - 2ml

2^o Freon (500) MSVD135A - 2ml

2^o Oxy (500) MSVD147J - 2ml

SURR (500) MSVD143D - 1ml

50ml (LCS)

5ml

5ml

5ml

5ml

50ml (SPK)

134

MS # 10

8260B WATER

TOW 2645.M

7/2/08

/0702-K/B

WAT0026.M

PH SAMPLE POS DIL FILE OK COMMENTS

RUN # 164297

1119456

1119455

BLK		1	-	B0814	Y	
BLK		2	-	B0875	Y	
TUNE		1	-	B0876	Y _T	
CCV		1	-	B0877	Y _c	
LCS		1	-	B0878	(N)	DEDFM↑
LCS	1119456	1	-	B0879	Y _c	
MBLANK		1	-	B0880	-	
MBLANK	1119455	2	-	B0881	Y _{ms}	
LL 1112505-1	[REDACTED] R-44696 8260B.WSL1	3	1.0	B0882	Y	
LL 1112507-1		4	1.0	B0883	Y	
LL 1112575-1		5	1.0	B0884	Y	
LL 1111909-3	[REDACTED] R-44642 8260B.TC83	6	2.0	B0885	Y	DL
LL 1111911-4		7	2.0	B0886	Y	
LL 1111916-3		8	10.0	B0887	Y	
LL 1112809-1	[REDACTED] R-44650 8260B.D0D0	9	1.0	B0888	Y	
LL (1112810-1)		10	1.0	B0889	(Y) Rpt 1/2	
LL 1112811-1		11	25.0	B0890	Y	
LL 1112812-1		12	1.0	B0891	Y EB	
LL 1112813-1		13	1.0	B0892	Y T.B.	
LL (1112871-1)		14	1.0	B0893	(Y) RPT 1/2	
LL (1112872-1)		15	1.0	B0894	(Y) RPT 1/5	
LL 1111911-5MS	[REDACTED] R-44642 8260B.TC83	16	2.0	B0895	Y	
(1111911-6MSD)		17	2.0	B0896	(N) inst stopped.	

Reviewed & Approved

By: [Signature]

Date: 7/2/08

[Signature]

SURR (S ₀)	MSVD147B	- 1ml / 10ml (TUNE)	
1° T/G (S ₀)	MSVD1345	- 5ml	50ml (CCV)
1° HSL (S ₀)	MSVD143A	- 5ml	
1° Fren (S ₀)	MSVD146N	- 12.5ml	
1° Oxy (S ₀)	MSVD146M	- 5ml	
2° T/G (S ₀)	MSVD145C	- 2ml	
2° HSL (S ₀)	MSVD146G	- 2ml	50ml (LCS)
2° Fren (S ₀)	MSVD138A	- 2ml	
2° Oxy (S ₀)	MSVD147J	- 2ml	
SURR (S ₀)	MSVD143D	- 1ml / 10ml sample	

MS # 10

7/3/08

PH SAMPLE

BLK	
BLK	
TUNE	
CCV	
LCS	
MBLCK	
MBLCK	
LL 1111911-6MSD	[REDACTED] R-44
1112810-3	[REDACTED] R-4465
1112871-3	
1112872-3	
1112874-2	
1112876-1	
1112877-1	
(1113420-1)	
1113427-1	
1113428-1	
(1113429-1)	
(1113430-1)	
1113431-1	
1113432-1	
1113433-1	
1112874-3 MS	
1112874-4 MSD	

[Signature]

SURR (S ₀)	MSVD147B	-
1° T/G (S ₀)	MSVD1345	-
1° HSL (S ₀)	MSVD143A	-
1° Fren (S ₀)	MSVD146N	-
1° Oxy (S ₀)	MSVD146M	-
2° T/G (S ₀)	MSVD145C	-
2° HSL (S ₀)	MSVD146G	-
2° Fren (S ₀)	MSVD138A	-
2° Oxy (S ₀)	MSVD147J	-
SURR (S ₀)	MSVD143D	-

7/3/08

/070308/3..

WAT0626.M

POS	DIL	FILE	OK	COMMENTS	PH	SAMPLE	POS	DIL	FILE	OK	COMMENTS
1	-	B0874	Y			BLK	1	-	B0897	Y	
2	-	B0875	Y			BLK	2	-	B0898	Y	
1	-	B0876	Y _T			TUNE	1	-	B0899	Y _T	
1	-	B0877	Y _C			CCV	1	-	B0900	Y _C	
1	-	B0878	(N)	DCDFM↑		LCS	1	-	B0901	Y _C	
1	-	B0879	Y _Q			MBLK	1	-	B0902	-	
1	-	B0880	-			1119493	2	-	B0903	Y _{MB}	
2	-	B0881	Y _{MB}			1119492	3	2.0	B0904	Y	
3	1.0	B0882	Y			111911-6MSD [R-44642 8260B.TCB3]	4	2.0	B0905	Y	DL
4	1.0	B0883	Y			1112810-3 [R-44650 8260B.DODD]	5	2.0	B0906	Y	
5	1.0	B0884	Y			1112871-3	6	5.0	B0907	Y	
6	2.0	B0885	Y	DL		1112872-3	7	1.0	B0908	Y	
7	2.0	B0886	Y			1112874-2	T.B.	8	1.0	B0909	Y
8	10.0	B0887	Y			1112876-1	T.B.	9	1.0	B0910	Y
9	1.0	B0888	Y			1112877-1	10	1.0	B0911	(Y) RPT 1/5	
10	1.0	B0889	(Y) Rpt 1/2			1113426-1	11	1.0	B0912	Y	
11	25.0	B0890	Y			1113427-1	12	1.0	B0913	Y	
12	1.0	B0891	Y EB.			1113428-1	13	1.0	B0914	(Y) RPT 1/2.5	
13	1.0	B0892	Y T.B.			1113429-1	14	1.0	B0915	(Y) RPT 1/2	
14	1.0	B0893	(Y) RPT 1/2			1113430-1	T.B.	15	1.0	B0916	Y
15	1.0	B0894	(Y) RPT 1/5			1113431-1	T.B.	16	1.0	B0917	Y
16	2.0	B0895	Y			1113432-1	T.B.	17	1.0	B0918	Y
17	2.0	B0896 B0896	(N) inst stopped.			1113433-1	18	1.0	B0919	Y	
						1112874-3 MS	19	1.0	B0920	Y	
						1112874-4 MSD					

Reviewed & Approved

By: M. Hill

Date: 7/7/08

Zim R.P.

SURR(S00) MSVD147B - 1ml/100mL (TUNE)

1° T/G(S00) MSVD1395 - 5mL

1° HSL(S00) MSVD143A - 5mL

1° Fren(S00) MSVD146N - 12.5mL

1° Oxy(S00) MSVD146M - 5mL

2° T/G(S00) MSVD145C - 2mL

2° HSL(S00) MSVD146G - 2mL

2° Fren(S00) MSVD138A - 2mL

2° Oxy(S00) MSVD147J - 2mL

SURR(S00) MSVD145D - 1mL/10mL sample

50mL (CCV)

50mL (LCS)

5mL

5mL

5mL

5mL

50mL (SPK)

5mL
5mL
5mL
5mL
50mL (SPK)

POS	DIL	FILE	OK	COMMENT	pH	SAMPLE	POS	DIL	FILE	OK	COMMENT
1	-	B0973	Y	T		BLK	1	-	B0992	Y	
1	-	B0974	Y	Q		BLK	2	-	B0993	Y	
1	-	B0975	-			TUNE	1	-	B0994	Y	
2	-	B0976	Y	M3		CCV	1	-	B0995	Y	Response ↑
1	25.0	B0977	Y	DL		CCV	1	-	B0996	Y	
2	20.0	B0978	Y			MBK	1	-	B0997	-	
3	2.0	B0979	Y			MBK	2	-	B0998	Y	M3
4	1.0	B0980	Y			LCS	1	-	B0999	Y	Q
5	5.0	B0981	Y			BLK	1	-	B1000	Y	
6	5.0	B0982	Y			← 1114836-1 [R-44830 8260B.WSL1]	2	1.0	B1001	Y	
7	2.5	B0983	Y			← 1114837-1	3	1.0	B1002	Y	
8	1.0	B0984	Y			← 1114838-1	4	1.0	B1003	Y	
9	25.0	B0985	Y			← 1114839-1	5	1.0	B1004	Y	
10	25.0	B0986	Y			← 1114840-1	6	1.0	B1005	Y	
11	-	B0987	Y			← 1114841-1	7	1.0	B1006	Y	
12	-	B0988	Y			← 1114842-1	8	1.0	B1007	Y	
13	-	B0989	Y			← 1114844-1	9	1.0	B1008	Y	
14	-	B0990	Y			← 1114845-1	10	1.0	B1009	Y	
15	-	B0991	Y			← 1114841-2 MS	11	1.0	B1010	Y	
						← 1114841-3 MSD	12	1.0	B1011	Y	
						← BLK	13	-	B1012	Y	
						← 1113426-3 [R-44650 8260B.DODO]	14	5.0	B1013	Y	DL
						← 1113429-3	15	2.5	B1014	Y	
						← 1113430-3	16	2.0	B1015	Y	Run outside of 12 hr tune window

Run # 164357

1119512

1119513

WE)

LCS)(SPK)(IDC)

7m R High

SURR (500)	MSVD147B	- 1ul/100ml (TUNE)			
1° T/G (500)	MSVD139J	- 5ml	50ml (CCV)		
1° HSL (500)	MSVD143A	- 5ml			
1° Freon (200)	MSVD146N	- 12.5ml			
1° Oxy (500)	MSVD146M	- 5ml			
2° T/G (500)	MSVD145C	- 5ml	50ml (SPK)	- 2ml	
2° HSL (500)	MSVD146G	- 5ml		- 2ml	50ml (LCS)
2° Freon (500)	MSVD138A	- 5ml		- 2ml	
2° Oxy (500)	MSVD147J	- 5ml		- 2ml	
SURR (500)	MSVD143D	- 1ul/10ml Sample			

FU 7/9/08

140

MS# 10

82608.WAT

T062608.M

MS# 10

7/10/08

/071008/8...

WAT0626.M

7/11/08

P# SAMPLE POS DIL FILE OK COMMENT

P# SAMPLE

BLK
 BLK Run # 164307
 TUNE
 CCV
 LCS
 LCS
 TUNE
 CCV
 LCS 1119771
 MBLK
 MBLK 1114770
 <2 1114843-1 [R-44830 82608.WSL1]
 <2 1114846-1
 <2 1114847-1
 <2 1114848-1
 <2 1114849-1
 <2 1114850-1
 <2 1114851-1
 <2 1114852-1
 <2 1114853-1
 <2 1114854-1
 <2 1114855-1
 <2 1114843-2 MS
 <2 1114843-3 MSD
 <2 BLK
 <2 1113430-3 [R-44830 82608.D000] DL

BLK
 BLK
 TUNE
 TUNE
 CCV
 CCV
 VBLK
 VBLK
 VBLK MS
 <2 1115773-1 [R-4486]
 <2 1115774-1
 <2 1115775-1
 <2 1116244-1
 <2 1116245-1
 <2 1116246-1
 <2 1116247-1
 <2 1116248-1
 <2 1116249-1
 <2 1116793-1
 <2 1116795-1
 <2 1116796-1
 BS
 BSD
 BLK
 Zm R My

Zm R My

SURR (250) MSVD14BI
 1° T/G (500) MSVD142C
 1° Frcan 22 (500) MSVD149A
 CLPMS (500) MSVD149B
 Comb (250) MSVD142A

SURR (500) MSVD147B 1u/100uL (TUNE)

SURR (500) MSVD143D - 1uL/10uL Sample

1° T/G (500) - MSVD139J 5uL
 1° HXL (500) - MSVD143A 5uL
 1° Frcan (200) - MSVD146N 12.5uL 50mL (CCV)
 1° Dry (500) - MSVD146M 5uL
 2° T/G (500) - MSVD145C 2uL
 2° HXL (500) - MSVD146G 2uL
 2° Frcan (500) - MSVD138A 2uL 50mL (LCS)
 2° ... 2uL

5uL
 5uL
 5uL
 5uL 50mL (SPK)

SEMIVOLATILE ORGANICS

QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 1112874 ENSR International

Client ID: M-7BB

Test: 8270C.NEVA

Analytical Units: UG/L

Run Number : 163278

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.			QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
ACENAPHTHENE	0.500	0	0.430	86	0.480	96	11	30	44 - 112
ACENAPHTHYLENE	0.500	0	0.440	88	0.460	92	4	30	51 - 115
ANTHRACENE	0.500	0	0.380	76	0.400	80	5	30	54 - 510
BENZO (A) ANTHRACENE	0.500	0	0.380	76	0.420	84	10	30	58 - 115
BENZO (A) PYRENE	0.500	0	0.310	62	0.370	74	18	30	36 - 119
BENZO (B) FLUORANTHENE	0.500	0	0.360	72	0.430	86	18	30	45 - 121
BENZO (G, H, I) PERYLENE	0.500	0	0.440	88	0.500	100	13	30	39 - 122
BENZO (K) FLUORANTHENE	0.500	0	0.360	72	0.420	84	15	30	47 - 119
BUTYL BENZYL PHTHALATE	0.500	0	0.580	116	0.550	110	5	30	50 - 150
DI-N-BUTYLPHTHALATE	0.500	0	1.60	320*	1.00	200*	46*	30	50 - 150
INDENO (1, 2, 3-CD) PYRENE	0.500	0	0.480	96	0.570	114	17	30	47 - 119
CHRYSENE	0.500	0	0.370	74	0.410	82	10	30	55 - 113
DIBENZO (A, H) ANTHRACENE	0.500	0	0.520	104	0.610	122*	16	30	47 - 116
DIETHYLPHTHALATE	0.500	0	0.530	106	0.500	100	6	30	50 - 150
DIMETHYL PHTHALATE	0.500	0	0.440	88	0.480	96	9	30	50 - 150
1, 4-DIOXANE	5.00	0.360	2.20	37	2.80	49	24	30	31 - 80
BIS (2-ETHYLHEXYL) PHTHALATE	5.00	0	4.30	86	4.90	98	13	30	55 - 130
FLUORANTHENE	0.500	0	0.430	86	0.460	92	7	30	59 - 117
FLUORENE	0.500	0	0.500	100	0.520	104	4	30	38 - 121
HEXACHLOROBENZENE	0.500	0	0.360	72	0.410	82	13	30	47 - 108
2-METHYLNAPHTHALENE	0.500	0	0.320	64	0.360	72	12	30	42 - 130
NAPHTHALENE	0.500	0	0.380	76	0.410	82	8	30	33 - 121
NITROBENZENE	0.500	0	0.330	66	0.380	76	14	30	50 - 150
OCTACHLOROSTYRENE	0.500	0	0.340	68	0.420	84	21	30	50 - 150
DI-N-OCTYL PHTHALATE	0.500	0	0.640	128	0.700	140	9	30	50 - 150
PHENANTHRENE	0.500	0	0.420	84	0.450	90	7	30	54 - 114
PYRENE	0.500	0	0.410	82	0.460	92	11	30	55 - 115
PYRIDINE	0.500	0	0.190	38*	0.170	34*	11	30	50 - 150

Data File Name AS045.D
 Data File Path J:\ACQUDATA\5973C\DATA\070208\
 Sample Name 1113920 0.94

#	Name	Amount	Units	PPM	% REC.	F or P	LcsLimits	MsLimits
2)	1,4-Dioxane	2.31	ppm	5	46%	FP	50-120	31-80
3)	Pyridine	0.20	ppm	0.5	40%	E ↓	50-120	50-150
5)	SURR4,NITROBENZENE-D5	1.41	ppm	2	71%	P	45-135	22-124
6)	Nitrobenzene	0.35	ppm	0.5	71%	P	50-120	50-150
7)	Naphthalene	0.40	ppm	0.5	79%	P	50-120	33-121
8)	2-Methylnaphthalene	0.34	ppm	0.5	69%	P	50-120	42-130
9)	1-Methylnaphthalene	0.34	ppm	0.5	69%	P	62-102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.30	ppm	2	65%	P	45-135	27-114
12)	Acenaphthylene	0.47	ppm	0.5	95%	P	50-120	51-115
13)	Dimethyl phthalate	0.47	ppm	0.5	94%	P	50-120	50-150
14)	Acenaphthene	0.46	ppm	0.5	93%	P	50-120	44-112
15)	Dibenzofuran	0.49	ppm	0.5	99%	P	50-150	50-150
16)	Fluorene	0.53	ppm	0.5	106%	P	50-120	38-121
17)	Diethylphthalate	0.56	ppm	0.5	112%	P	50-120	50-150
19)	Hexachlorobenzene	0.38	ppm	0.5	76%	P	50-120	47-108
20)	Phenanthrene	0.45	ppm	0.5	89%	P	50-120	54-114
21)	Anthracene	0.41	ppm	0.5	81%	P	50-120	51-119
22)	Carbazole	0.52	ppm	0.5	105%	P	40-150	40-150
23)	Octachlorostyrene	0.36	ppm	0.5	73%	P	50-120	50-150
24)	Di-n-butylphthalate	1.76	ppm	0.5	351%	E ↑	50-120	50-150
25)	Fluoranthene	0.46	ppm	0.5	92%	P	50-120	59-117
27)	Pyrene	0.44	ppm	0.5	89%	P	50-120	55-115
28)	SURR6,TERPHENYL-D14	1.78	ppm	2	89%	P	45-135	23-139
29)	Butyl benzyl phthalate	0.62	ppm	0.5	125%	FP	50-120	50-150
30)	bis(2-Ethylhexyl)phthalate	4.62	ppm	5	92%	P	50-120	55-130
31)	Benzo(a)anthracene	0.40	ppm	0.5	81%	P	50-120	58-115
32)	Chrysene	0.39	ppm	0.5	78%	P	50-120	55-113
34)	Di-n-octyl phthalate	0.68	ppm	0.5	136%	FP	50-120	50-150
35)	Benzo(b)Fluoranthene	0.38	ppm	0.5	76%	P	50-120	45-121
36)	Benzo(k)fluoranthene	0.38	ppm	0.5	76%	P	50-120	47-119
37)	Benzo(a)pyrene	0.33	ppm	0.5	66%	P	50-120	36-119
38)	Indeno(1,2,3-cd)Pyrene	0.51	ppm	0.5	103%	P	50-120	47-119
39)	Dibenz(a,h)anthracene	0.55	ppm	0.5	109%	P	50-120	47-116
40)	Benzo(g,h,i)perylene	0.47	ppm	0.5	94%	P	50-120	39-122

Data File Name AS046.D
 Data File Path J:\ACQU\DATA\5973C\DATA\070208\
 Sample Name 1113921 0.94

#	Name	Amount	Units	PPM	% REC.	F or P	LcsLimits	MsLimits
2)	1,4-Dioxane	2.96	ppm	5	59%	P	50-120	31-80
3)	Pyridine	0.18	ppm	0.5	35%	F ↓	50-120	50-150
5)	SURR4,NITROBENZENE-D5	1.52	ppm	2	76%	P	45-135	22-124
6)	Nitrobenzene	0.41	ppm	0.5	83%	P	50-120	50-150
7)	Naphthalene	0.44	ppm	0.5	89%	P	50-120	33-121
8)	2-Methylnaphthalene	0.38	ppm	0.5	77%	P	50-120	42-130
9)	1-Methylnaphthalene	0.38	ppm	0.5	77%	P	62-102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.42	ppm	2	71%	P	45-135	27-114
12)	Acenaphthylene	0.49	ppm	0.5	98%	P	50-120	51-115
13)	Dimethyl phthalate	0.51	ppm	0.5	103%	P	50-120	50-150
14)	Acenaphthene	0.51	ppm	0.5	101%	P	50-120	44-112
15)	Dibenzofuran	0.49	ppm	0.5	99%	P	50-150	50-150
16)	Fluorene	0.55	ppm	0.5	110%	P	50-120	38-121
17)	Diethylphthalate	0.53	ppm	0.5	106%	P	50-120	50-150
19)	Hexachlorobenzene	0.44	ppm	0.5	87%	P	50-120	47-108
20)	Phenanthrene	0.48	ppm	0.5	96%	P	50-120	54-114
21)	Anthracene	0.43	ppm	0.5	86%	P	50-120	51-119
22)	Carbazole	0.48	ppm	0.5	96%	P	40-150	40-150
23)	Octachlorostyrene	0.45	ppm	0.5	90%	P	50-120	50-150
24)	Di-n-butylphthalate	1.11	ppm	0.5	221%	E ↑	50-120	50-150
25)	Fluoranthene	0.49	ppm	0.5	99%	P	50-120	59-117
27)	Pyrene	0.49	ppm	0.5	97%	P	50-120	55-115
28)	SURR6,TERPHENYL-D14	1.99	ppm	2	100%	P	45-135	23-139
29)	Butyl benzyl phthalate	0.59	ppm	0.5	118%	P	50-120	50-150
30)	bis(2-Ethylhexyl)phthalate	5.23	ppm	5	105%	P	50-120	55-130
31)	Benzo(a)anthracene	0.45	ppm	0.5	90%	P	50-120	58-115
32)	Chrysene	0.44	ppm	0.5	87%	P	50-120	55-113
34)	Di-n-octyl phthalate	0.75	ppm	0.5	149%	P ↑	50-120	50-150
35)	Benzo(b)Fluoranthene	0.46	ppm	0.5	92%	P	50-120	45-121
36)	Benzo(k)fluoranthene	0.45	ppm	0.5	90%	P	50-120	47-119
37)	Benzo(a)pyrene	0.39	ppm	0.5	79%	P	50-120	36-119
38)	Indeno(1,2,3-cd)Pyrene	0.61	ppm	0.5	122%	E ↑	50-120	47-119
39)	Dibenz(a,h)anthracene	0.65	ppm	0.5	129%	E ↑	50-120	47-116
40)	Benzo(g,h,i)perylene	0.53	ppm	0.5	107%	P	50-120	39-122

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
WATER

Spiked Order No. : 1113599

Dup Spiked Order No. : 1113600

Client ID:

Test: 8270C.NEVA

Analytical Units: UG/L

Run Number : 163187

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		BLANK SPIKE DUP.			QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
ACENAPHTHENE	0.50	0	0.470	94	0.440	88	7	30	50 - 120
ACENAPHTHYLENE	0.50	0	0.470	94	0.460	92	2	30	50 - 120
ANTHRACENE	0.50	0	0.400	80	0.370	74	8	30	50 - 120
BENZO (A) ANTHRACENE	0.50	0	0.430	86	0.410	82	5	30	50 - 120
BENZO (A) PYRENE	0.50	0	0.360	72	0.340	68	6	30	50 - 120
BENZO (B) FLUORANTHENE	0.50	0	0.410	82	0.380	76	8	30	50 - 120
BENZO (G, H, I) PERYLENE	0.50	0	0.440	88	0.430	86	2	30	50 - 120
BENZO (K) FLUORANTHENE	0.50	0	0.410	82	0.380	76	8	30	50 - 120
BUTYL BENZYL PHTHALATE	0.50	0	0.510	102	0.480	96	6	30	50 - 120
DI-N-BUTYLPHTHALATE	0.50	0	0.670	134 *	0.640	128 *	5	30	50 - 120
INDENO (1, 2, 3-CD) PYRENE	0.50	0	0.510	102	0.490	98	4	30	50 - 120
CHRYSENE	0.50	0	0.400	80	0.390	78	3	30	50 - 120
DIBENZO (A, H) ANTHRACENE	0.50	0	0.540	108	0.520	104	4	30	50 - 120
DIETHYLPHTHALATE	0.50	0	0.450	90	0.420	84	7	30	50 - 120
DIMETHYL PHTHALATE	0.50	0	0.460	92	0.440	88	4	30	50 - 120
1, 4-DIOXANE	5.0	0	2.00	40 *	2.00	40 *	0	30	50 - 120
BIS (2-ETHYLHEXYL) PHTHA	5.0	0	5.00	100	4.70	94	6	30	50 - 120
FLUORANTHENE	0.50	0	0.450	90	0.410	82	9	30	50 - 120
FLUORENE	0.50	0	0.530	106	0.520	104	2	30	50 - 120
HEXACHLOROBENZENE	0.50	0	0.380	76	0.330	66	14	30	50 - 120
2-METHYLNAPHTHALENE	0.50	0	0.330	66	0.300	60	10	30	50 - 120
NAPHTHALENE	0.50	0	0.400	80	0.380	76	5	30	50 - 120
NITROBENZENE	0.50	0	0.380	76	0.350	70	8	30	50 - 120
OCTACHLOROSTYRENE	0.50	0	0.430	86	0.370	74	15	30	50 - 120
DI-N-OCTYL PHTHALATE	0.50	0	0.700	140 *	0.670	134 *	4	30	50 - 120
PHENANTHRENE	0.50	0	0.430	86	0.400	80	7	30	50 - 120
PYRENE	0.50	0	0.470	94	0.430	86	9	30	50 - 120
PYRIDINE	0.050	0	0.090	180 *	0.040	80	77 *	30	50 - 120

Data File Name AR996.D

Data File Path J:\ACQUDATA\5973C\DATA\063008\

Sample Name 1113599 1.0

#	Name	Amount	Units	PPM	% REC.	F or P	LcsLimits	MsLimits
2)	1,4-Dioxane	1.98	ppm	5	40%	F ↓	50-120	31-80
3)	Pyridine	0.09	ppm	3.05	3% 18%	F ↓	50-120	50-150
5)	SURR4,NITROBENZENE-D5	1.56	ppm	2	78%	P	45-135	22-124
6)	Nitrobenzene	0.38	ppm	0.5	76%	P	50-120	50-150
7)	Naphthalene	0.40	ppm	0.5	81%	P	50-120	33-121
8)	2-Methylnaphthalene	0.33	ppm	0.5	67%	P	50-120	42-130
9)	1-Methylnaphthalene	0.34	ppm	0.5	68%	P	62-102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.41	ppm	2	71%	P	45-135	27-114
12)	Acenaphthylene	0.47	ppm	0.5	93%	P	50-120	51-115
13)	Dimethyl phthalate	0.46	ppm	0.5	92%	P	50-120	50-150
14)	Acenaphthene	0.47	ppm	0.5	94%	P	50-120	44-112
15)	Dibenzofuran	0.46	ppm	0.5	92%	P	50-150	50-150
16)	Fluorene	0.53	ppm	0.5	105%	P	50-120	38-121
17)	Diethylphthalate	0.45	ppm	0.5	91%	P	50-120	50-150
19)	Hexachlorobenzene	0.38	ppm	0.5	77%	P	50-120	47-108
20)	Phenanthrene	0.43	ppm	0.5	87%	P	50-120	54-114
21)	Anthracene	0.40	ppm	0.5	79%	P	50-120	51-119
22)	Carbazole	0.52	ppm	0.5	104%	P	40-150	40-150
23)	Octachlorostyrene	0.43	ppm	0.5	87%	P	50-120	50-150
24)	Di-n-butylphthalate	0.67	ppm	0.5	134%	F ↑	50-120	50-150
25)	Fluoranthene	0.45	ppm	0.5	89%	P	50-120	59-117
27)	Pyrene	0.47	ppm	0.5	93%	P	50-120	55-115
28)	SURR6,TERPHENYL-D14	1.93	ppm	2	96%	P	45-135	23-139
29)	Butylbenzylphthalate	0.51	ppm	0.5	101%	P	50-120	50-150
30)	bis(2-Ethylhexyl)phthalate	4.99	ppm	5	100%	P	50-120	55-130
31)	Benzo(a)anthracene	0.43	ppm	0.5	87%	P	50-120	58-115
32)	Chrysene	0.40	ppm	0.5	80%	P	50-120	55-113
34)	Di-n-octylphthalate	0.70	ppm	0.5	139%	F ↑	50-120	50-150
35)	Benzo(b)Fluoranthene	0.41	ppm	0.5	83%	P	50-120	45-121
36)	Benzo(k)fluoranthene	0.41	ppm	0.5	82%	P	50-120	47-119
37)	Benzo(a)pyrene	0.36	ppm	0.5	72%	P	50-120	36-119
38)	Indeno(1,2,3-cd)Pyrene	0.51	ppm	0.5	101%	P	50-120	47-119
39)	Dibenz(a,h)anthracene	0.54	ppm	0.5	108%	P	50-120	47-116
40)	Benzo(g,h,i)perylene	0.44	ppm	0.5	89%	P	50-120	39-122

Data File Name AR997.D
 Data File Path J:\ACQUDATA\5973C\DATA\063008\
 Sample Name 1113600 1.0

#	Name	Amount	Units	PPM	% REC.	F or P	LcsLimits	MsLimits
2)	1,4-Dioxane	2.00	ppm	5	40%	Ⓢ ↓	50-120	31-80
3)	Pyridine	0.04	ppm	0.5	8%	Ⓢ ↓	50-120	50-150
5)	SURR4,NITROBENZENE-D5	1.44	ppm	2	72%	P	45-135	22-124
6)	Nitrobenzene	0.35	ppm	0.5	70%	P	50-120	50-150
7)	Naphthalene	0.38	ppm	0.5	75%	P	50-120	33-121
8)	2-Methylnaphthalene	0.30	ppm	0.5	60%	P	50-120	42-130
9)	1-Methylnaphthalene	0.31	ppm	0.5	62%	FWT	62-102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.34	ppm	2	67%	P	45-135	27-114
12)	Acenaphthylene	0.46	ppm	0.5	92%	P	50-120	51-115
13)	Dimethyl phthalate	0.44	ppm	0.5	87%	P	50-120	50-150
14)	Acenaphthene	0.44	ppm	0.5	88%	P	50-120	44-112
15)	Dibenzofuran	0.43	ppm	0.5	86%	P	50-150	50-150
16)	Fluorene	0.52	ppm	0.5	104%	P	50-120	38-121
17)	Diethylphthalate	0.42	ppm	0.5	85%	P	50-120	50-150
19)	Hexachlorobenzene	0.33	ppm	0.5	67%	P	50-120	47-108
20)	Phenanthrene	0.40	ppm	0.5	80%	P	50-120	54-114
21)	Anthracene	0.37	ppm	0.5	75%	P	50-120	51-119
22)	Carbazole	0.47	ppm	0.5	95%	P	40-150	40-150
23)	Octachlorostyrene	0.37	ppm	0.5	74%	P	50-120	50-150
24)	Di-n-butylphthalate	0.64	ppm	0.5	127%	Ⓢ ↑	50-120	50-150
25)	Fluoranthene	0.41	ppm	0.5	81%	P	50-120	59-117
27)	Pyrene	0.43	ppm	0.5	85%	P	50-120	55-115
28)	SURR6,TERPHENYL-D14	1.87	ppm	2	93%	P	45-135	23-139
29)	Butylbenzylphthalate	0.48	ppm	0.5	95%	P	50-120	50-150
30)	bis(2-Ethylhexyl)phthalate	4.74	ppm	5	95%	P	50-120	55-130
31)	Benzo(a)anthracene	0.41	ppm	0.5	82%	P	50-120	58-115
32)	Chrysene	0.39	ppm	0.5	77%	P	50-120	55-113
34)	Di-n-octylphthalate	0.67	ppm	0.5	133%	Ⓢ ↑	50-120	50-150
35)	Benzo(b)Fluoranthene	0.38	ppm	0.5	76%	P	50-120	45-121
36)	Benzo(k)fluoranthene	0.38	ppm	0.5	76%	P	50-120	47-119
37)	Benzo(a)pyrene	0.34	ppm	0.5	68%	P	50-120	36-119
38)	Indeno(1,2,3-cd)Pyrene	0.49	ppm	0.5	98%	P	50-120	47-119
39)	Dibenz(a,h)anthracene	0.52	ppm	0.5	105%	P	50-120	47-116
40)	Benzo(g,h,i)perylene	0.43	ppm	0.5	85%	P	50-120	39-122

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
WATER

Spiked Order No. : 1113918

Dup Spiked Order No. : 1113919

Client ID:

Test: 8270C.NEVA

Analytical Units: UG/L

Run Number : 163278

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		BLANK SPIKE DUP.			QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
ACENAPHTHENE	0.50	0	0.480	96	0.470	94	2	30	50 - 120
ACENAPHTHYLENE	0.50	0	0.460	92	0.480	96	4	30	50 - 120
ANTHRACENE	0.50	0	0.360	72	0.390	78	8	30	50 - 120
BENZO (A) ANTHRACENE	0.50	0	0.430	86	0.440	88	2	30	50 - 120
BENZO (A) PYRENE	0.50	0	0.340	68	0.370	74	8	30	50 - 120
BENZO (B) FLUORANTHENE	0.50	0	0.420	84	0.420	84	0	30	50 - 120
BENZO (G, H, I) PERYLENE	0.50	0	0.450	90	0.470	94	4	30	50 - 120
BENZO (K) FLUORANTHENE	0.50	0	0.430	86	0.470	94	9	30	50 - 120
BUTYL BENZYL PHTHALATE	0.50	0	0.890	178 *	0.940	188*	5	30	50 - 120
DI-N-BUTYLPHTHALATE	0.50	0	2.30	460 *	2.40	480*	4	30	50 - 120
INDENO (1, 2, 3-CD) PYRENE	0.50	0	0.520	104	0.520	104	0	30	50 - 120
CHRYSENE	0.50	0	0.420	84	0.410	82	2	30	50 - 120
DIBENZO (A, H) ANTHRACENE	0.50	0	0.540	108	0.560	112	4	30	50 - 120
DIETHYLPHTHALATE	0.50	0	0.540	108	0.470	94	14	30	50 - 120
DIMETHYL PHTHALATE	0.50	0	0.460	92	0.470	94	2	30	50 - 120
1, 4-DIOXANE	5.0	0	2.30	46 *	2.10	42*	9	30	50 - 120
BIS (2-ETHYLHEXYL) PHTHA	5.0	0	5.50	110	5.60	112	2	30	50 - 120
FLUORANTHENE	0.50	0	0.410	82	0.430	86	5	30	50 - 120
FLUORENE	0.50	0	0.530	106	0.530	106	0	30	50 - 120
HEXACHLOROBENZENE	0.50	0	0.370	74	0.380	76	3	30	50 - 120
2-METHYLNAPHTHALENE	0.50	0	0.330	66	0.340	68	3	30	50 - 120
NAPHTHALENE	0.50	0	0.420	84	0.400	80	5	30	50 - 120
NITROBENZENE	0.50	0	0.400	80	0.380	76	5	30	50 - 120
OCTACHLOROSTYRENE	0.50	0	0.390	78	0.350	70	11	30	50 - 120
DI-N-OCTYL PHTHALATE	0.50	0	0.690	138 *	0.700	140*	1	30	50 - 120
PHENANTHRENE	0.50	0	0.430	86	0.420	84	2	30	50 - 120
PYRENE	0.50	0	0.450	90	0.470	94	4	30	50 - 120
PYRIDINE	0.50	0	0.070	14 *	0.000	0*	200*	30	50 - 120

Data File Name AS023.D
 Data File Path J:\ACQUDATA\5973C\DATA\070108\
 Sample Name 1113923 1.0

#	Name	Amount	Units	PPM	% REC.	F or P	LcsLimits	MsLimits
2)	1,4-Dioxane	2.29	ppm	5	46%	F ↓	50-120	31-80
3)	Pyridine	0.07	ppm	0.5	13%	F ↓	50-120	50-150
5)	SURR4,NITROBENZENE-D5	1.59	ppm	2	80%	P	45-135	22-124
6)	Nitrobenzene	0.40	ppm	0.5	80%	P	50-120	50-150
7)	Naphthalene	0.42	ppm	0.5	84%	P	50-120	33-121
8)	2-Methylnaphthalene	0.33	ppm	0.5	67%	P	50-120	42-130
9)	1-Methylnaphthalene	0.32	ppm	0.5	64%	P	62-102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.40	ppm	2	70%	P	45-135	27-114
12)	Acenaphthylene	0.46	ppm	0.5	93%	P	50-120	51-115
13)	Dimethyl phthalate	0.46	ppm	0.5	91%	P	50-120	50-150
14)	Acenaphthene	0.48	ppm	0.5	96%	P	50-120	44-112
15)	Dibenzofuran	0.46	ppm	0.5	92%	P	50-150	50-150
16)	Fluorene	0.53	ppm	0.5	107%	P	50-120	38-121
17)	Diethylphthalate	0.54	ppm	0.5	108%	P	50-120	50-150
19)	Hexachlorobenzene	0.37	ppm	0.5	75%	P	50-120	47-108
20)	Phenanthrene	0.43	ppm	0.5	86%	P	50-120	54-114
21)	Anthracene	0.36	ppm	0.5	71%	P	50-120	51-119
22)	Carbazole	0.49	ppm	0.5	97%	P	40-150	40-150
23)	Octachlorostyrene	0.39	ppm	0.5	78%	P	50-120	50-150
24)	Di-n-butylphthalate	2.34	ppm	0.5	468%	F ↑	50-120	50-150
25)	Fluoranthene	0.41	ppm	0.5	83%	P	50-120	59-117
27)	Pyrene	0.45	ppm	0.5	91%	P	50-120	55-115
28)	SURR6,TERPHENYL-D14	2.00	ppm	2	100%	P	45-135	23-139
29)	Butyl benzyl phthalate	0.89	ppm	0.5	178%	F ↑	50-120	50-150
30)	bis(2-Ethylhexyl)phthalate	5.49	ppm	5	110%	P	50-120	55-130
31)	Benzo(a)anthracene	0.43	ppm	0.5	85%	P	50-120	58-115
32)	Chrysene	0.42	ppm	0.5	84%	P	50-120	55-113
34)	Di-n-octyl phthalate	0.69	ppm	0.5	139%	F ↑	50-120	50-150
35)	Benzo(b)Fluoranthene	0.42	ppm	0.5	85%	P	50-120	45-121
36)	Benzo(k)fluoranthene	0.43	ppm	0.5	86%	P	50-120	47-119
37)	Benzo(a)pyrene	0.34	ppm	0.5	67%	P	50-120	36-119
38)	Indeno(1,2,3-cd)Pyrene	0.52	ppm	0.5	104%	P	50-120	47-119
39)	Dibenz(a,h)anthracene	0.54	ppm	0.5	109%	P	50-120	47-116
40)	Benzo(g,h,i)perylene	0.45	ppm	0.5	91%	P	50-120	39-122

Data File Name AS024.D
 Data File Path J:\ACQUDATA\5973C\DATA\070108\
 Sample Name 1113924 1.0

#	Name	Amount	Units	PPM	% REC.	F or P	LcsLimits	MsLimits
2)	1,4-Dioxane	2.06	ppm	5	41%	F ↓	50-120	31-80
3)	Pyridine	0.01	ppm	0.5	2%	F ↓	50-120	50-150
5)	SURR4,NITROBENZENE-D5	1.52	ppm	2	76%	P	45-135	22-124
6)	Nitrobenzene	0.38	ppm	0.5	77%	P	50-120	50-150
7)	Naphthalene	0.40	ppm	0.5	80%	P	50-120	33-121
8)	2-Methylnaphthalene	0.34	ppm	0.5	69%	P	50-120	42-130
9)	1-Methylnaphthalene	0.33	ppm	0.5	66%	P	62-102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.37	ppm	2	68%	P	45-135	27-114
12)	Acenaphthylene	0.48	ppm	0.5	97%	P	50-120	51-115
13)	Dimethyl phthalate	0.47	ppm	0.5	95%	P	50-120	50-150
14)	Acenaphthene	0.47	ppm	0.5	95%	P	50-120	44-112
15)	Dibenzofuran	0.46	ppm	0.5	92%	P	50-150	50-150
16)	Fluorene	0.53	ppm	0.5	107%	P	50-120	38-121
17)	Diethylphthalate	0.47	ppm	0.5	94%	P	50-120	50-150
19)	Hexachlorobenzene	0.38	ppm	0.5	75%	P	50-120	47-108
20)	Phenanthrene	0.42	ppm	0.5	84%	P	50-120	54-114
21)	Anthracene	0.39	ppm	0.5	78%	P	50-120	51-119
22)	Carbazole	0.49	ppm	0.5	97%	P	40-150	40-150
23)	Octachlorostyrene	0.35	ppm	0.5	71%	P	50-120	50-150
24)	Di-n-butylphthalate	2.44	ppm	0.5	488%	F ↑	50-120	50-150
25)	Fluoranthene	0.43	ppm	0.5	86%	P	50-120	59-117
27)	Pyrene	0.47	ppm	0.5	93%	P	50-120	55-115
28)	SURR6,TERPHENYL-D14	1.99	ppm	2	100%	P	45-135	23-139
29)	Butyl benzyl phthalate	0.94	ppm	0.5	187%	F ↑	50-120	50-150
30)	bis(2-Ethylhexyl)phthalate	5.58	ppm	5	112%	P	50-120	55-130
31)	Benzo(a)anthracene	0.44	ppm	0.5	88%	P	50-120	58-115
32)	Chrysene	0.41	ppm	0.5	82%	P	50-120	55-113
34)	Di-n-octyl phthalate	0.70	ppm	0.5	141%	F ↑	50-120	50-150
35)	Benzo(b)Fluoranthene	0.42	ppm	0.5	85%	P	50-120	45-121
36)	Benzo(k)fluoranthene	0.47	ppm	0.5	93%	P	50-120	47-119
37)	Benzo(a)pyrene	0.37	ppm	0.5	75%	P	50-120	36-119
38)	Indeno(1,2,3-cd)Pyrene	0.52	ppm	0.5	104%	P	50-120	47-119
39)	Dibenz(a,h)anthracene	0.56	ppm	0.5	111%	P	50-120	47-116
40)	Benzo(g,h,i)perylene	0.47	ppm	0.5	94%	P	50-120	39-122

SEMIVOLATILE METHOD BLANK SUMMARY

SBLK1

Lab Name: CAS-ROCH Contract: ENSR

Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B

Lab File ID: AR995.D Lab Sample ID: 1113598 1.0

Instrument ID: 5973-C Date Extracted: 6/26/08

Matrix: (soil/water) WATER Date Analyzed: 6/30/08

Level: (low/med) LOW Time Analyzed: 16:57

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK1MS	1113599 1.0	AR996.D	6/30/08
02	SBLK1MSD	1113600 1.0	AR997.D	6/30/08
03	M-44B	1112065 0.94	AS017.D	7/1/08
04	M-49AB	1112066 1.0	AS018.D	7/1/08
05	FB062408GWAREA	1112067 0.94	AS019.D	7/1/08

COMMENTS:

SEMIVOLATILE METHOD BLANK SUMMARY

SBLK2

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: AS022.D Lab Sample ID: 1113917 1.0
 Instrument ID: 5973-C Date Extracted: 6/30/08
 Matrix: (soil/water) WATER Date Analyzed: 7/1/08
 Level: (low/med) LOW Time Analyzed: 19:22

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK2MS	1113918 1.0	AS023.D	7/1/08
02	SBLK2MSD	1113919 1.0	AS024.D	7/1/08
03	M-23B	1112488 0.94	AS029.D	7/1/08
04	MW-16B	1112810 0.94	AS030.D	7/1/08
05	M-23B RE	1112488 0.94	AS036.D	7/2/08
06	MC-45B	1112486 4.72	AS037.D	7/2/08
07	MC-53B	1112487 2.83	AS038.D	7/2/08
08	M-5AB	1112811 0.95	AS039.D	7/2/08
09	MC-97B	1112489 0.96	AS040.D	7/2/08
10	EB062608GW3	1112812 0.99	AS041.D	7/2/08
11	M-88BB	1112872 0.99	AS042.D	7/2/08
12	MC-94B	1112809 1.41	AS043.D	7/2/08
13	M-7BB	1112874 0.94	AS044.D	7/2/08
14	M-7BBMS	1113920 0.94	AS045.D	7/2/08
15	M-7BBMSD	1113921 0.94	AS046.D	7/2/08
16	M-67B	1113426 0.98	AS047.D	7/2/08
17	M-6AB	1113427 0.99	AS048.D	7/2/08
18	M-57AB	1113428 1.0	AS049.D	7/2/08
19	M-95B	1113429 0.94	AS050.D	7/2/08
20	M-68B	1113430 1.03	AS051.D	7/2/08
21	M-61B	1112871 0.98	AS052.D	7/2/08
22	MC-94B RE	1112809 1.41	AS054.D	7/2/08
23	M-57AB RE	1113428 1.0	AS062.D	7/3/08

COMMENTS:

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: AR926.D DFTPP Injection Date: 6/26/08
 Instrument ID: 5973-C DFTPP Injection Time: 16:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.1
68	Less than 2.0% of mass 69	0.6 (0.9) ¹
69	Mass 69 Relative abundance	71.7
70	Less than 2.0% of mass 69	0.2 (0.3) ¹
127	40.0 - 60.0% of mass 198	52.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	26.4
365	Greater than 1.0% of mass 198	4.1
441	Present, but less than mass 443	13.4
442	40.0 - 100.0% of mass 198	88.4
443	17.0 - 23.0% of mass 442	17.2 (19.5) ²

1-Value is % mass 69

2-Value is % mass 442

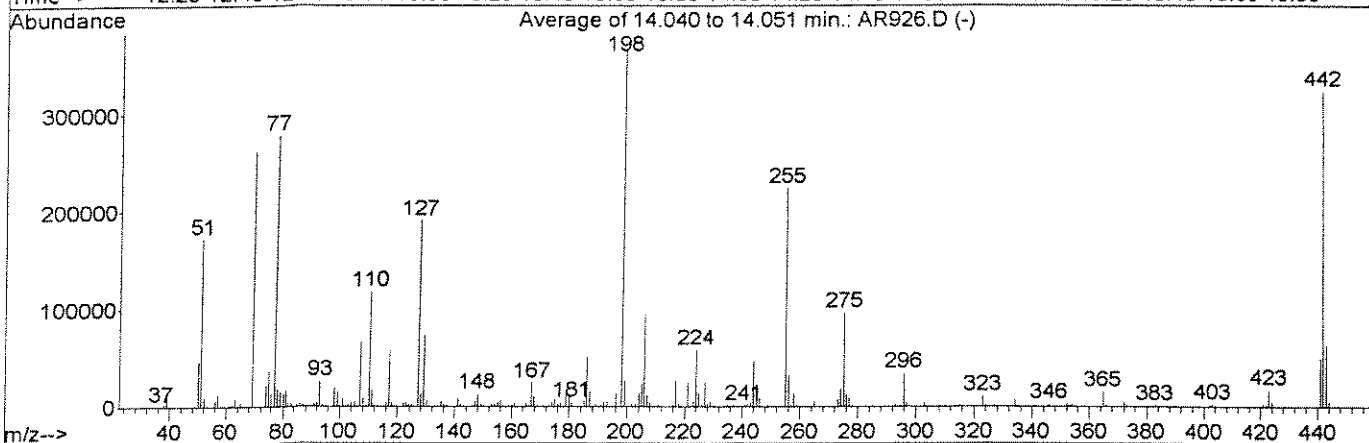
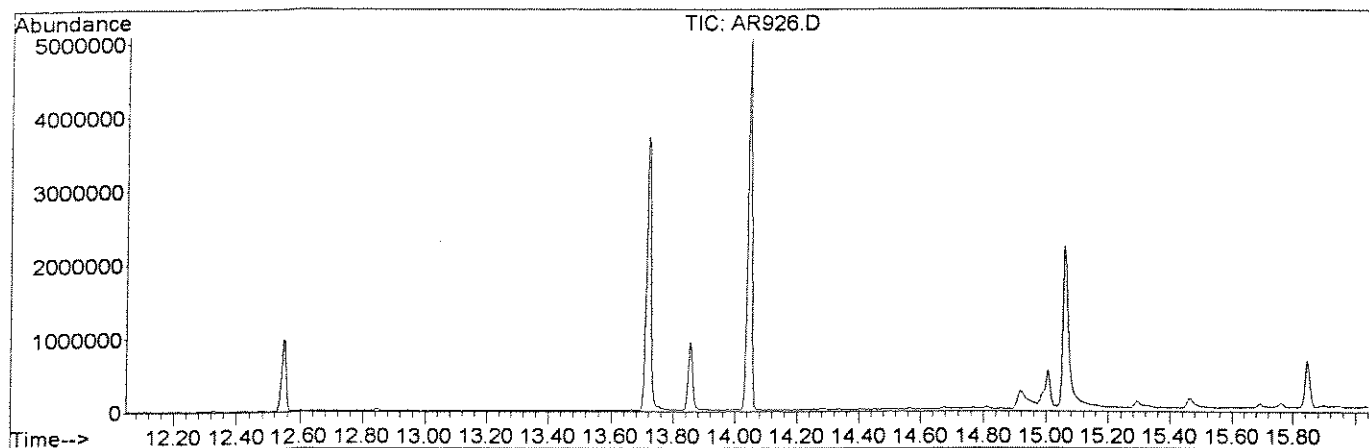
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD001	INITIAL CALIBRATION	AR928.D	6/26/08	17:31
02	SSTD002	INITIAL CALIBRATION	AR929.D	6/26/08	18:06
03	SSTD005	INITIAL CALIBRATION	AR930.D	6/26/08	18:40
04	SSTD010	INITIAL CALIBRATION	AR931.D	6/26/08	19:15
05	SSTD020	INITIAL CALIBRATION	AR932.D	6/26/08	19:50
06	SSTD030	INITIAL CALIBRATION	AR933.D	6/26/08	20:25
07	SSTD040	INITIAL CALIBRATION	AR934.D	6/26/08	21:00
08	SSTD050	INITIAL CALIBRATION	AR935.D	6/26/08	21:35
09	SSTD100	INITIAL CALIBRATION	AR936.D	6/26/08	22:10

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\062608\AR926.D
 Acq On : 26 Jun 2008 4:24 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00



AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1296

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.1	172809	PASS
68	69	0.00	2	0.9	2305	PASS
69	198	0.00	100	71.7	263018	PASS
70	69	0.00	2	0.3	769	PASS
127	198	40	60	52.3	191842	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	366784	PASS
199	198	5	9	7.2	26242	PASS
275	198	10	30	26.4	96925	PASS
365	198	1	100	4.1	15178	PASS
441	443	0.01	100	77.8	49080	PASS
442	198	40	100	88.4	324160	PASS
443	442	17	23	19.5	63072	PASS

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: AR981.D DFTPP Injection Date: 6/30/08
 Instrument ID: 5973-C DFTPP Injection Time: 8:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.5
68	Less than 2.0% of mass 69	0.3 (0.4)1
69	Mass 69 Relative abundance	69.3
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	53.5
197	Less than 1.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	26.6
365	Greater than 1.0% of mass 198	4.3
441	Present, but less than mass 443	13.0
442	40.0 - 100.0% of mass 198	86.3
443	17.0 - 23.0% of mass 442	16.7 (19.4)2

1-Value is % mass 69

2-Value is % mass 442

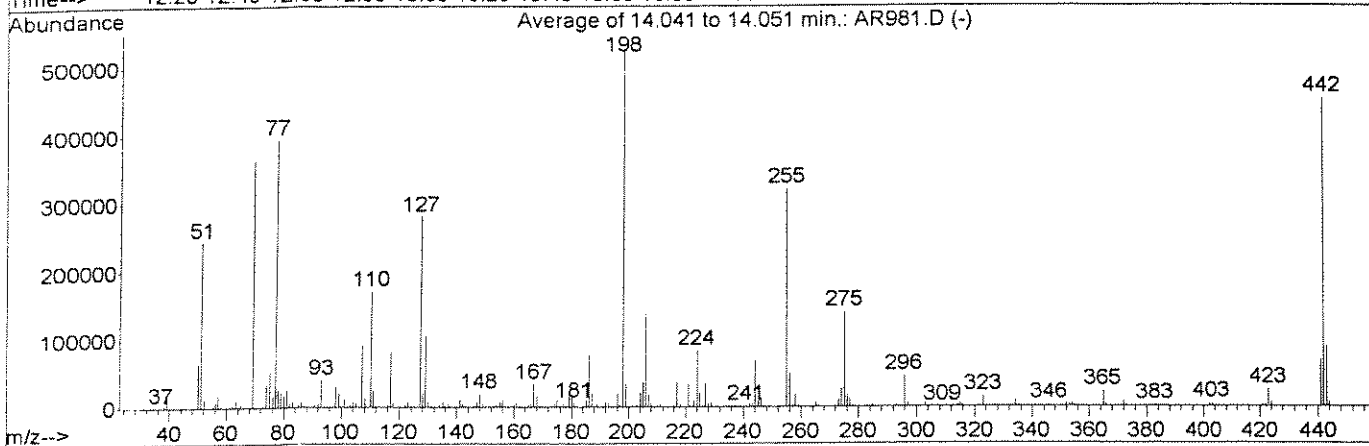
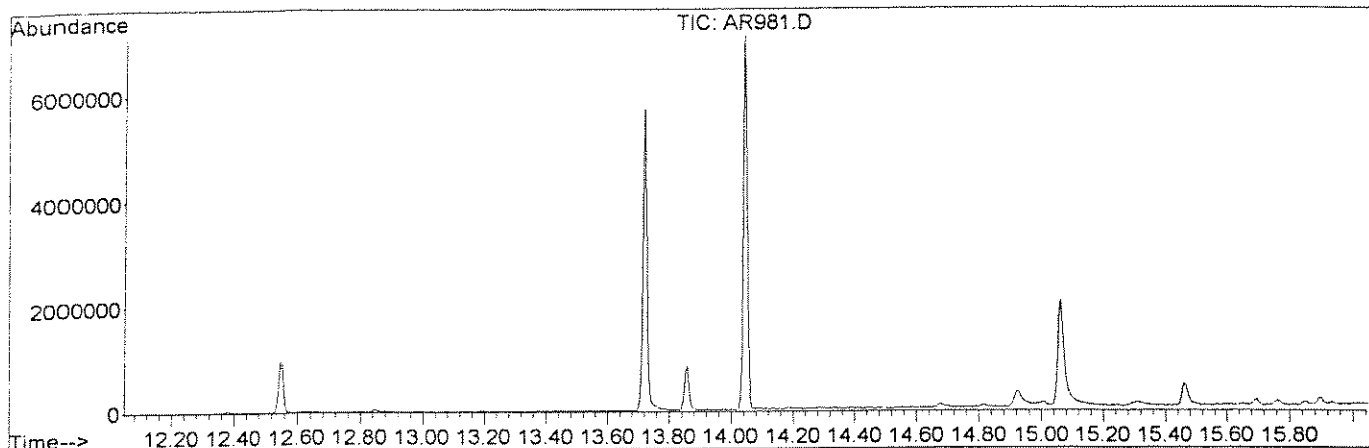
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD120	CALIBRATION CHECK	AR982.D	6/30/08	9:20
02	SBLK1	1113598 1.0	AR995.D	6/30/08	16:57
03	SBLK1MS	1113599 1.0	AR996.D	6/30/08	17:32
04	SBLK1MSD	1113600 1.0	AR997.D	6/30/08	18:07

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\063008\AR981.D
 Acq On : 30 Jun 2008 8:51 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00



AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.5	245022	PASS
68	69	0.00	2	0.4	1595	PASS
69	198	0.00	100	69.3	364979	PASS
70	69	0.00	2	0.5	1966	PASS
127	198	40	60	53.5	281642	PASS
197	198	0.00	1	0.7	3798	PASS
198	198	100	100	100.0	526634	PASS
199	198	5	9	6.5	34122	PASS
275	198	10	30	26.6	140125	PASS
365	198	1	100	4.3	22736	PASS
441	443	0.01	100	77.7	68509	PASS
442	198	40	100	86.3	454506	PASS
443	442	17	23	19.4	88208	PASS

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: AS010.D DFTPP Injection Date: 7/1/08
 Instrument ID: 5973-C DFTPP Injection Time: 12:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	65.6
70	Less than 2.0% of mass 69	0.4 (0.6)1
127	40.0 - 60.0% of mass 198	51.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	26.8
365	Greater than 1.0% of mass 198	4.6
441	Present, but less than mass 443	14.3
442	40.0 - 100.0% of mass 198	97.0
443	17.0 - 23.0% of mass 442	19.4 (20.0)2

1-Value is % mass 69

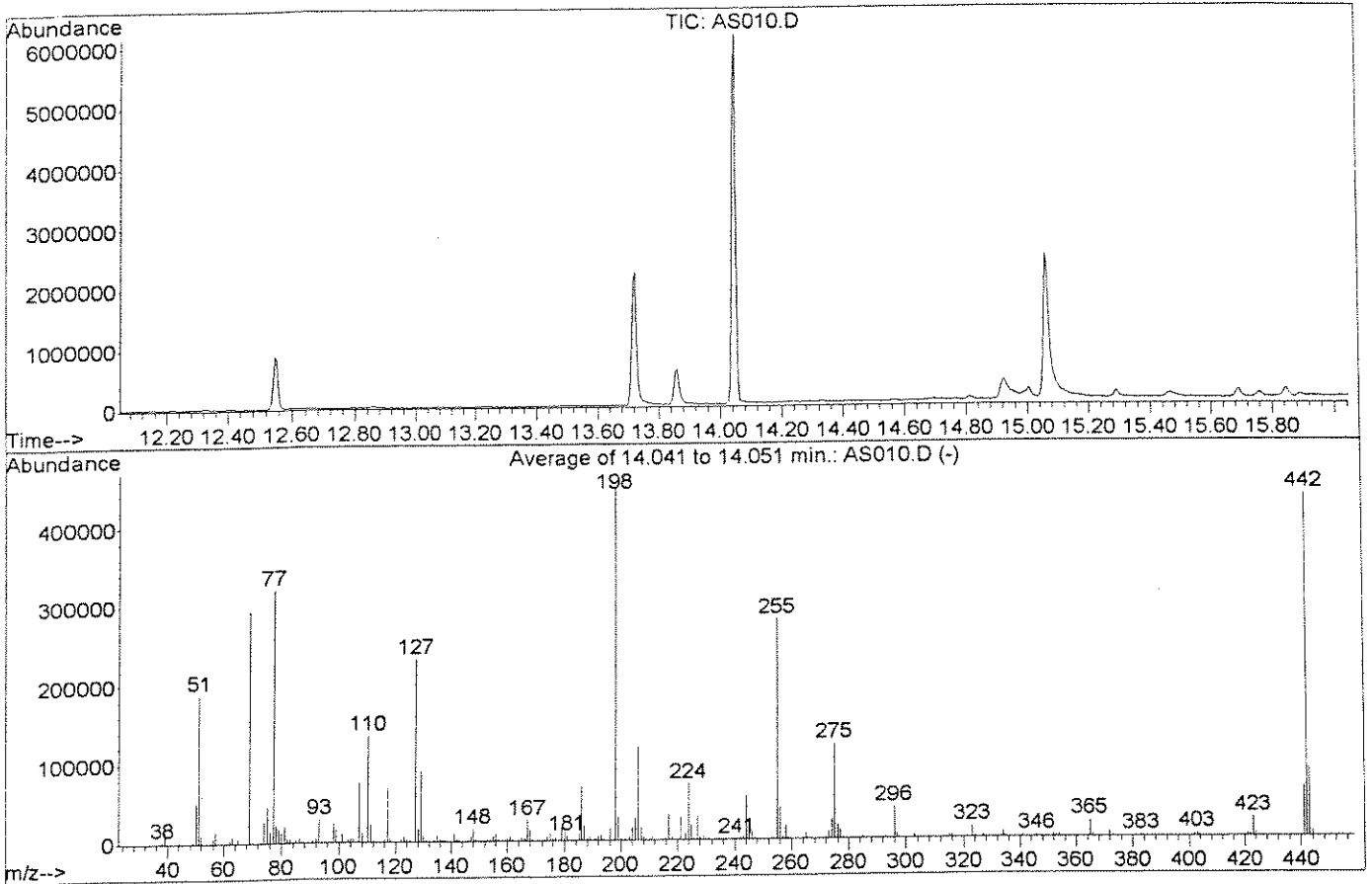
2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD220	CALIBRATION CHECK	AS011.D	7/1/08	12:57
02	M-44B	1112065 0.94	AS017.D	7/1/08	16:27
03	M-49AB	1112066 1.0	AS018.D	7/1/08	17:03
04	FB062408GWAREA	1112067 0.94	AS019.D	7/1/08	17:38
05	SBLK2	1113917 1.0	AS022.D	7/1/08	19:22
06	SBLK2MS	1113918 1.0	AS023.D	7/1/08	19:57
07	SBLK2MSD	1113919 1.0	AS024.D	7/1/08	20:31
08	M-23B	1112488 0.94	AS029.D	7/1/08	23:24
09	MW-16B	1112810 0.94	AS030.D	7/1/08	23:59

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\070108\AS010.D Vial: 1
 Acq On : 1 Jul 2008 12:22 pm Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK



AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.1	188713	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	65.6	294035	PASS
70	69	0.00	2	0.6	1668	PASS
127	198	40	60	51.7	231658	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	447914	PASS
199	198	5	9	6.7	30137	PASS
275	198	10	30	26.8	119984	PASS
365	198	1	100	4.6	20613	PASS
441	443	0.01	100	73.8	64168	PASS
442	198	40	100	97.0	434410	PASS
443	442	17	23	20.0	86928	PASS

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: AS034.D DFTPP Injection Date: 7/2/08
 Instrument ID: 5973-C DFTPP Injection Time: 7:27

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.1
68	Less than 2.0% of mass 69	0.6 (0.8)1
69	Mass 69 Relative abundance	74.1
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	54.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	26.3
365	Greater than 1.0% of mass 198	4.2
441	Present, but less than mass 443	12.2
442	40.0 - 100.0% of mass 198	83.1
443	17.0 - 23.0% of mass 442	15.8 (19.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD320	CALIBRATION CHECK	AS035.D	7/2/08	7:56
02	M-23B RE	1112488 0.94	AS036.D	7/2/08	8:31
03	MC-45B	1112486 4.72	AS037.D	7/2/08	9:06
04	MC-53B	1112487 2.83	AS038.D	7/2/08	9:42
05	M-5AB	1112811 0.95	AS039.D	7/2/08	10:18
06	MC-97B	1112489 0.96	AS040.D	7/2/08	10:54
07	EB062608GW3	1112812 0.99	AS041.D	7/2/08	11:29
08	M-88BB	1112872 0.99	AS042.D	7/2/08	12:05
09	MC-94B	1112809 1.41	AS043.D	7/2/08	12:40
10	M-7BB	1112874 0.94	AS044.D	7/2/08	13:16
11	M-7BBMS	1113920 0.94	AS045.D	7/2/08	13:51
12	M-7BBMSD	1113921 0.94	AS046.D	7/2/08	14:27
13	M-67B	1113426 0.98	AS047.D	7/2/08	15:02
14	M-6AB	1113427 0.99	AS048.D	7/2/08	15:38
15	M-57AB	1113428 1.0	AS049.D	7/2/08	16:14
16	M-95B	1113429 0.94	AS050.D	7/2/08	16:50
17	M-68B	1113430 1.03	AS051.D	7/2/08	17:26
18	M-61B	1112871 0.98	AS052.D	7/2/08	18:01

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: AS034.D DFTPP Injection Date: 7/2/08
 Instrument ID: 5973-C DFTPP Injection Time: 7:27

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.1
68	Less than 2.0% of mass 69	0.6 (0.8)1
69	Mass 69 Relative abundance	74.1
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	54.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	26.3
365	Greater than 1.0% of mass 198	4.2
441	Present, but less than mass 443	12.2
442	40.0 - 100.0% of mass 198	83.1
443	17.0 - 23.0% of mass 442	15.8 (19.0)2

1-Value is % mass 69

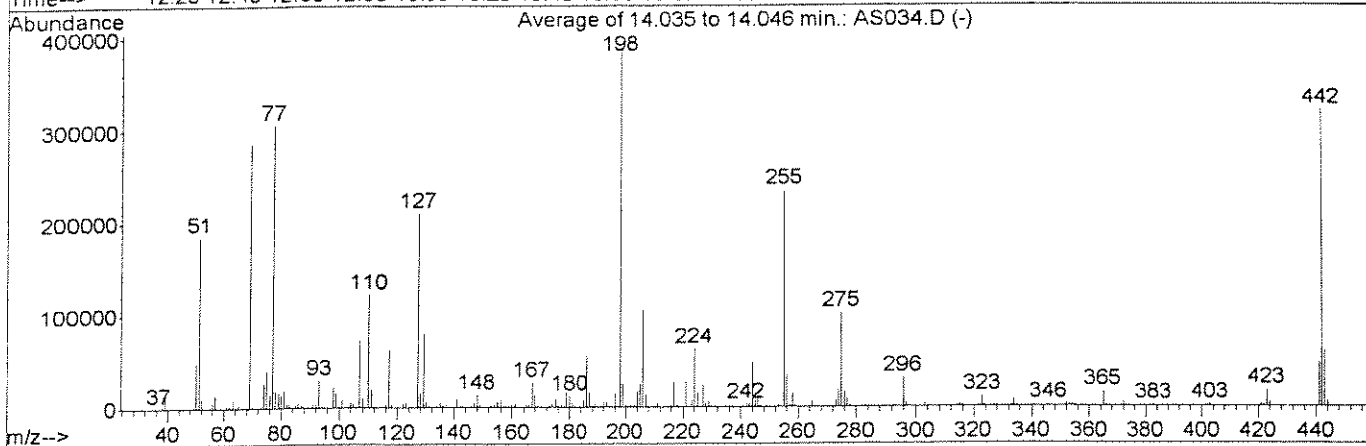
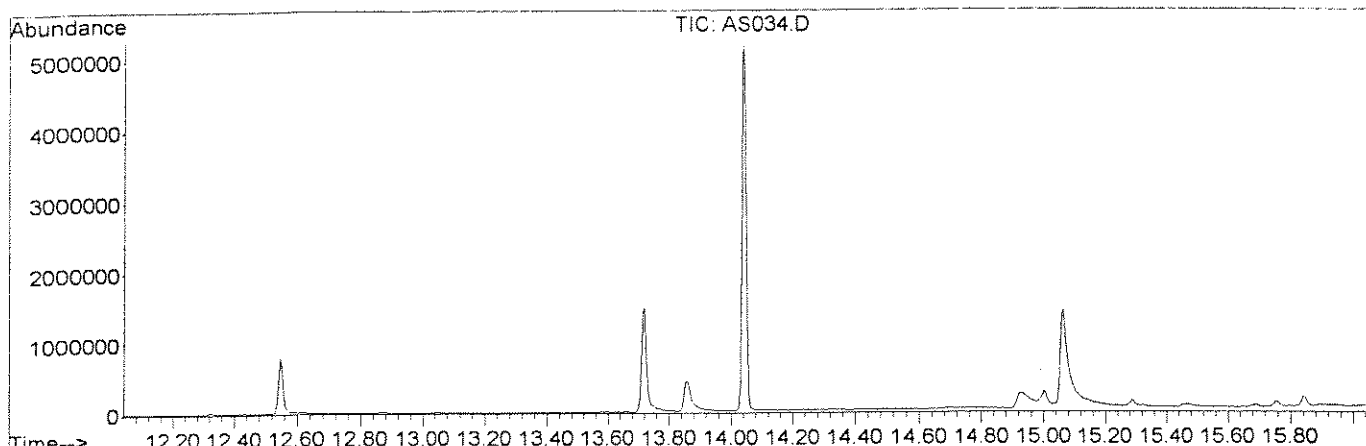
2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19 MC-94B RE	1112809 1.41	AS054.D	7/2/08	19:13

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\070208\AS034.D Vial: 1
 Acq On : 2 Jul 2008 7:27 am Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK



AutoFind: Scans 1302, 1303, 1304; Background Corrected with Scan 1297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.1	185860	PASS
68	69	0.00	2	0.8	2405	PASS
69	198	0.00	100	74.1	286421	PASS
70	69	0.00	2	0.5	1553	PASS
127	198	40	60	54.5	210570	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	386624	PASS
199	198	5	9	6.7	25846	PASS
275	198	10	30	26.3	101856	PASS
365	198	1	100	4.2	16122	PASS
441	443	0.01	100	77.3	47308	PASS
442	198	40	100	83.1	321224	PASS
443	442	17	23	19.0	61162	PASS

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID: AS060.D DFTPP Injection Date: 7/3/08
 Instrument ID: 5973-C DFTPP Injection Time: 10:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.8
68	Less than 2.0% of mass 69	0.6 (0.9)1
69	Mass 69 Relative abundance	63.0
70	Less than 2.0% of mass 69	0.4 (0.6)1
127	40.0 - 60.0% of mass 198	51.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	29.0
365	Greater than 1.0% of mass 198	4.6
441	Present, but less than mass 443	14.7
442	40.0 - 100.0% of mass 198	99.0
443	17.0 - 23.0% of mass 442	19.2 (19.4)2

1-Value is % mass 69

2-Value is % mass 442

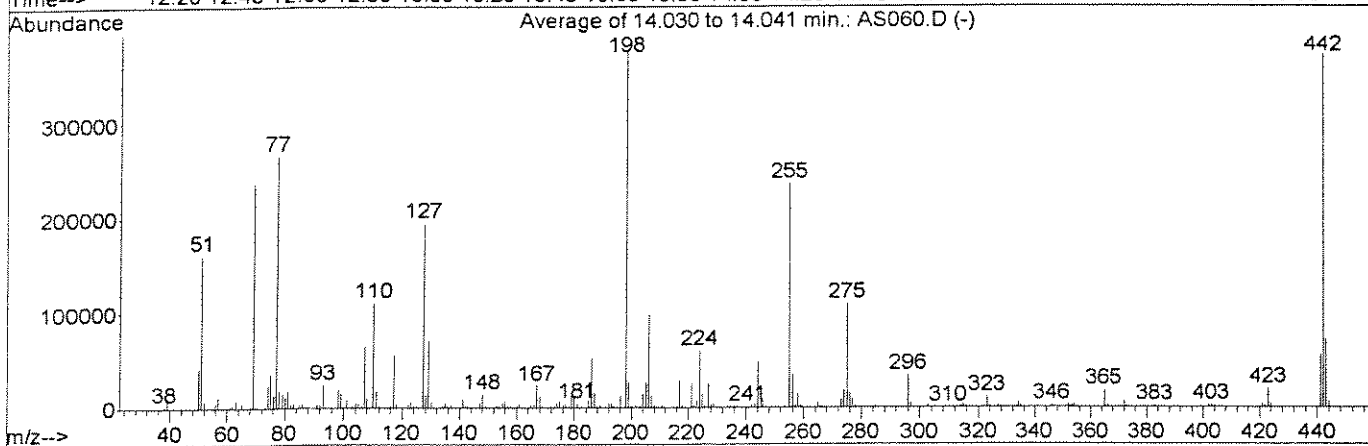
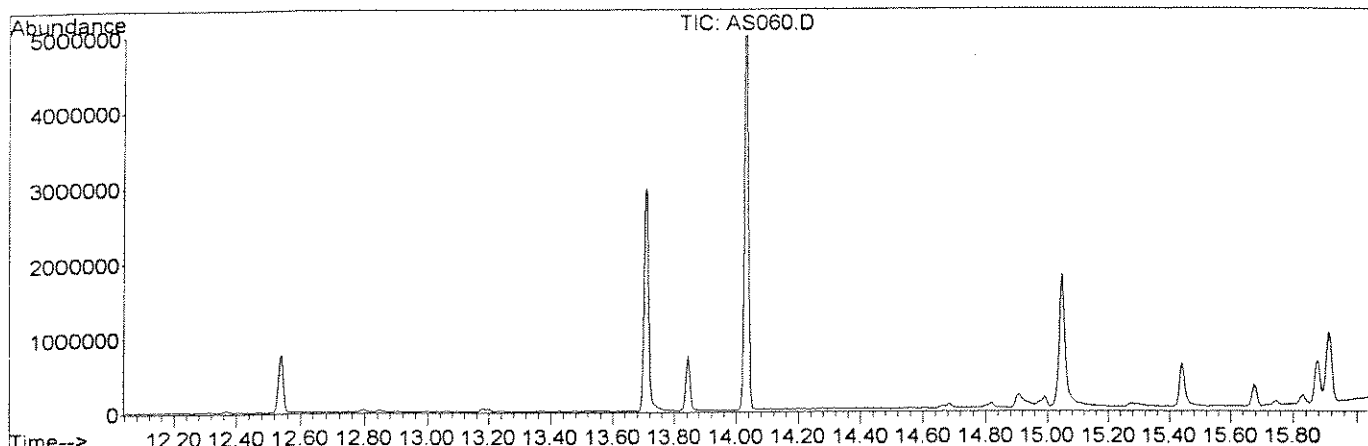
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD420	CALIBRATION CHECK	AS061.D	7/3/08	11:25
02	M-57AB RE	1113428 1.0	AS062.D	7/3/08	12:00

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\070308\AS060.D
 Acq On : 3 Jul 2008 10:55 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00



AutoFind: Scans 1301, 1302, 1303; Background Corrected with Scan 1295

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.8	161413	PASS
68	69	0.00	2	0.9	2251	PASS
69	198	0.00	100	63.0	237962	PASS
70	69	0.00	2	0.6	1492	PASS
127	198	40	60	51.6	194984	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	377557	PASS
199	198	5	9	7.1	26689	PASS
275	198	10	30	29.0	109330	PASS
365	198	1	100	4.6	17422	PASS
441	443	0.01	100	76.6	55570	PASS
442	198	40	100	99.0	373824	PASS
443	442	17	23	19.4	72570	PASS

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): AR982.D Date Analyzed: 6/30/08
 Instrument ID: 5973-C Time Analyzed: 9:20

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	102949	10.68	397895	11.95	196935	13.55
UPPER LIMIT	205898	11.18	795790	12.45	393870	14.05
LOWER LIMIT	51475	10.18	198948	11.45	98468	13.05
EPA SAMPLE NO.						
01 SBLK1	83863	10.68	325505	11.95	155906	13.55
02 SBLK1MS	96125	10.68	339892	11.95	161695	13.55
03 SBLK1MSD	97193	10.67	352531	11.95	165186	13.55

IS1 (DCB) = d4-1,4-Dichlorobenzene
 IS2 (NPT) = d8-Naphthalene
 IS3 (ANT) = d10-Acenaphthene
 IS4 (PHN) = d10-Phenanthrene
 IS5 (CRY) = d12-Chrysene
 IS6 (PRY) = d12-Perylene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): AR982.D Date Analyzed: 06/30/08
 Instrument ID: 5973-C Time Analyzed: 09:20

	IS4(PHN)		IS5(CRY)		IS6(PRY)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
	12 HOUR STD	405436	14.74	387612	17.82	307668	21.31
	UPPER LIMIT	810872	14.24	775224	17.32	615336	20.81
	LOWER LIMIT	202718	15.24	193806	18.32	153834	21.81
	EPA SAMPLE NO.						
01	SBLK1	369590	14.74	328462	17.82	257317	21.30
02	SBLK1MS	378235	14.74	334131	17.81	268817	21.31
03	SBLK1MSD	403785	14.74	347066	17.81	280967	21.31

- IS1 (DCB) = d4-1,4-Dichlorobenzene
- IS2 (NPT) = d8-Naphthalene
- IS3 (ANT) = d10-Acenaphthene
- IS4 (PHN) = d10-Phenanthrene
- IS5 (CRY) = d12-Chrysene
- IS6 (PRY) = d12-Perylene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): AS011.D Date Analyzed: 7/1/08
 Instrument ID: 5973-C Time Analyzed: 12:57

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	102393	10.68	382043	11.95	187316	13.55
UPPER LIMIT	204786	11.18	764086	12.45	374632	14.05
LOWER LIMIT	51197	10.18	191022	11.45	93658	13.05
EPA SAMPLE NO.						
01 M-44B	91387	10.68	330958	11.95	171797	13.55
02 M-49AB	83113	10.68	318074	11.95	153851	13.55
03 FB062408GWAR#1	81484	10.68	317036	11.95	155140	13.55
04 SBLK2	87336	10.68	327423	11.95	150776	13.55
05 SBLK2MS	90418	10.68	329505	11.95	155793	13.55
06 SBLK2MSD	86510	10.68	315775	11.95	141816	13.55
07 M-23B	90837	10.68	318064	11.95	148451	13.55
08 MW-16B	91882	10.68	306213	11.95	148146	13.55

IS1 (DCB) = d4-1,4-Dichlorobenzene
 IS2 (NPT) = d8-Naphthalene
 IS3 (ANT) = d10-Acenaphthene
 IS4 (PHN) = d10-Phenanthrene
 IS5 (CRY) = d12-Chrysene
 IS6 (PRY) = d12-Perylene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): AS011.D Date Analyzed: 07/01/08
 Instrument ID: 5973-C Time Analyzed: 12:57

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	399750	14.74	377093	17.81	283525	21.31
UPPER LIMIT	799500	14.24	754186	17.31	567050	20.81
LOWER LIMIT	199875	15.24	188547	18.31	141763	21.81
EPA SAMPLE NO.						
01 M-44B	382519	14.74	340314	17.82	191156	21.31
02 M-49AB	369407	14.74	316756	17.81	235359	21.31
03 FB062408GWAKA	363648	14.74	309224	17.81	229356	21.30
04 SBLK2	366186	14.74	306574	17.81	221594	21.31
05 SBLK2MS	378574	14.74	310621	17.81	243526	21.30
06 SBLK2MSD	348030	14.74	291930	17.81	225531	21.30
07 M-23B	340262	14.74	296340	17.81	0 *	.00
08 MW-16B	352723	14.74	294475	17.81	205361	21.30

- IS1 (DCB) = d4-1,4-Dichlorobenzene
- IS2 (NPT) = d8-Naphthalene
- IS3 (ANT) = d10-Acenaphthene
- IS4 (PHN) = d10-Phenanthrene
- IS5 (CRY) = d12-Chrysene
- IS6 (PRY) = d12-Perylene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): AS035.D Date Analyzed: 7/2/08
 Instrument ID: 5973-C Time Analyzed: 7:56

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	95576	10.67	370559	11.95	184867	13.55
UPPER LIMIT	191152	11.17	741118	12.45	369734	14.05
LOWER LIMIT	47788	10.17	185280	11.45	92434	13.05
EPA SAMPLE NO.						
01 M-23B RE	86720	10.68	321575	11.95	118325	13.55
02 MC-45B	90493	10.68	324482	11.95	138767	13.55
03 MC-53B	88550	10.68	319981	11.95	135442	13.55
04 M-5AB	85349	10.68	320243	11.95	169493	13.55
05 MC-97B	67386	10.68	263902	11.95	118961	13.55
06 EB062608GW3	81375	10.67	285746	11.95	149501	13.55
07 M-88BB	80224	10.67	296686	11.95	139661	13.55
08 MC-94B	74664	10.68	266494	11.95	139124	13.55
09 M-7BB	70271	10.67	266782	11.95	134044	13.55
10 M-7BBMS	78340	10.67	281448	11.95	145298	13.55
11 M-7BBMSD	63830	10.67	248013	11.95	124002	13.55
12 M-67B	70441	10.67	270942	11.95	138050	13.55
13 M-6AB	70966	10.67	262681	11.95	132444	13.55
14 M-57AB	77829	10.68	282016	11.95	131705	13.55
15 M-95B	73270	10.68	277598	11.95	139110	13.55
16 M-68B	77183	10.67	296706	11.95	138931	13.55
17 M-61B	75524	10.67	285209	11.95	137436	13.55
18 MC-94B RE	70557	10.68	256786	11.95	125211	13.55

IS1 (DCB) = d4-1,4-Dichlorobenzene
 IS2 (NPT) = d8-Naphthalene
 IS3 (ANT) = d10-Acenaphthene
 IS4 (PHN) = d10-Phenanthrene
 IS5 (CRY) = d12-Chrysene
 IS6 (PRY) = d12-Perylene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): AS035.D Date Analyzed: 07/02/08
 Instrument ID: 5973-C Time Analyzed: 07:56

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	377883	14.74	347150	17.81	254340	21.30
UPPER LIMIT	755766	14.24	694300	17.31	508680	20.80
LOWER LIMIT	188942	15.24	173575	18.31	127170	21.80
EPA SAMPLE NO.						
01 M-23B RE	339886	14.74	279068	17.81	0 *	.00
02 MC-45B	345532	14.74	281169	17.81	203441	21.31
03 MC-53B	341489	14.74	293514	17.81	205438	21.31
04 M-5AB	334894	14.74	296911	17.81	260043	21.31
05 MC-97B	292969	14.74	261048	17.81	170271	21.31
06 EB062608GW3	314174	14.74	271983	17.81	193998	21.31
07 M-88BB	307245	14.74	255264	17.81	158486	21.30
08 MC-94B	320193	14.74	278739	17.81	46528 *	21.31
09 M-7BB	325049	14.74	271842	17.81	199389	21.30
10 M-7BBMS	339182	14.74	297227	17.81	239282	21.30
11 M-7BBMSD	289805	14.74	258618	17.81	203264	21.30
12 M-67B	311287	14.74	259662	17.81	153647	21.30
13 M-6AB	305019	14.74	250356	17.81	196463	21.30
14 M-57AB	325268	14.74	272397	17.81	24566 *	21.30
15 M-95B	306470	14.74	269322	17.81	196631	21.30
16 M-68B	323392	14.74	268981	17.81	154894	21.30
17 M-61B	309580	14.74	251561	17.81	135991	21.30
18 MC-94B RE	300968	14.74	262416	17.81	27916 *	21.30

IS1 (DCB) = d4-1,4-Dichlorobenzene
 IS2 (NPT) = d8-Naphthalene
 IS3 (ANT) = d10-Acenaphthene
 IS4 (PHN) = d10-Phenanthrene
 IS5 (CRY) = d12-Chrysene
 IS6 (PRY) = d12-Perylene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): AS061.D Date Analyzed: 7/3/08
 Instrument ID: 5973-C Time Analyzed: 11:25

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	81123	10.67	320607	11.94	157453	13.54
UPPER LIMIT	162246	11.17	641214	12.44	314906	14.04
LOWER LIMIT	40562	10.17	160304	11.44	78727	13.04
EPA SAMPLE NO.						
01 M-57AB RE	83842	10.67	305054	11.94	147498	13.54

IS1 (DCB) = d4-1,4-Dichlorobenzene
 IS2 (NPT) = d8-Naphthalene
 IS3 (ANT) = d10-Acenaphthene
 IS4 (PHN) = d10-Phenanthrene
 IS5 (CRY) = d12-Chrysene
 IS6 (PRY) = d12-Perylene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844650 SAS No.: _____ SDG No.: M-44B
 Lab File ID (Standard): AS061.D Date Analyzed: 07/03/08
 Instrument ID: 5973-C Time Analyzed: 11:25

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	337691	14.73	310069	17.80	225309	21.27
UPPER LIMIT	675382	14.23	620138	17.30	450618	20.77
LOWER LIMIT	168846	15.23	155035	18.30	112655	21.77
EPA SAMPLE NO.						
01 M-57AB RE	345584	14.73	293542	17.79	1051 *	21.29

IS1 (DCB) = d4-1,4-Dichlorobenzene
 IS2 (NPT) = d8-Naphthalene
 IS3 (ANT) = d10-Acenaphthene
 IS4 (PHN) = d10-Phenanthrene
 IS5 (CRY) = d12-Chrysene
 IS6 (PRY) = d12-Perylene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

Columbia Analytical Services
8270.LL MDL STUDY 5973-C
Analyst: Jingmin Wu

Method: 8270.LL WATER

Extracted : 06/10/2008, 06/23/2008

#	Name	Conc. ug/l	Trial #1	Trial #2	Trial #3	Trial #4	Trial #5	Trial #6	Trial #7	Mean ug/l	S	N# f Ref	MDL ug/L	MRL ug/L
2)	1,4-Dioxane	0.8	0.36	0.31	0.40	0.34	0.45	0.39	0.39	0.37714	0.04536	7	0.1425531	0.2
3)	Pyridine	2	0.16	0.44	0.65	0.46	0.24	0.68	0.20	0.40429	0.21181	7	0.6657072	2
6)	Nitrobenzene	0.20	0.17	0.16	0.18	0.16	0.17	0.16	0.18	0.16857	0.009	7	0.0282787	0.2
7)	Naphthalene	0.20	0.17	0.17	0.19	0.17	0.20	0.18	0.20	0.18286	0.0138	7	0.0433775	0.2
8)	2-Methylnaphthalene	0.20	0.15	0.14	0.16	0.14	0.16	0.16	0.17	0.15429	0.01134	7	0.0356383	0.1
9)	1-Methylnaphthalene	0.20	0.14	0.14	0.15	0.14	0.15	0.14	0.15	0.14429	0.00535	7	0.0168	0.2
12)	Acenaphthylene	0.20	0.14	0.15	0.16	0.15	0.15	0.15	0.16	0.15143	0.0069	7	0.0216888	0.2
13)	Dimethyl phthalate	0.20	0.18	0.17	0.20	0.18	0.17	0.20	0.19	0.18429	0.01272	7	0.0399921	5
14)	Acenaphthene	0.20	0.16	0.14	0.17	0.16	0.17	0.17	0.16	0.16143	0.01069	7	0.0336001	0.2
15)	Dibenzofuran	0.20	0.16	0.15	0.16	0.16	0.15	0.20	0.16	0.16286	0.01704	7	0.0535673	0.2
16)	Fluorene	0.20	0.17	0.15	0.17	0.15	0.16	0.17	0.17	0.16286	0.00951	7	0.0298959	0.2
17)	Diethylphthalate	0.20	0.36	0.38	0.32	0.34	0.33	0.39	0.44	0.36571	0.04158	7	0.1306737	5
19)	Hexachlorobenzene	0.20	0.13	0.13	0.13	0.13	0.14	0.13	0.14	0.13286	0.00488	7	0.0153363	0.2
20)	Phenanthrene	0.20	0.18	0.18	0.18	0.17	0.19	0.19	0.19	0.18286	0.00756	7	0.0237588	0.2
21)	Anthracene	0.20	0.14	0.13	0.14	0.12	0.14	0.14	0.13	0.13429	0.00787	7	0.024729	0.2
22)	Carbazole	0.20	0.20	0.18	0.21	0.18	0.21	0.21	0.22	0.20143	0.01574	7	0.049458	1
23)	Octachlorostyrene	0.20	0.10	0.13	0.13	0.10	0.10	0.12	0.16	0.12	0.02236	7	0.0702796	0.2
24)	Di-n-butylphthalate	0.20	1.54	2.33	1.12	1.33	1.35	1.85	1.90	1.63143	0.41791	7	1.3134868	5
25)	Fluoranthene	0.20	0.18	0.17	0.19	0.17	0.19	0.19	0.20	0.18429	0.01134	7	0.0356383	0.2
27)	Pyrene	0.20	0.17	0.17	0.18	0.16	0.18	0.19	0.19	0.17714	0.01113	7	0.0349721	0.2
29)	Butylbenzylphthalate	0.20	0.31	0.48	0.30	0.31	0.30	0.41	0.38	0.35571	0.06997	7	0.2199031	5
30)	bis(2-Ethylhexyl)phthalate	0.80	0.79	0.90	0.84	0.76	0.76	0.94	0.87	0.83714	0.07041	7	0.2212891	2
31)	Benzo(a)anthracene	0.20	0.16	0.16	0.18	0.16	0.17	0.18	0.18	0.17	0.01	7	0.03143	0.1
32)	Chrysene	0.20	0.17	0.16	0.18	0.16	0.17	0.18	0.18	0.17143	0.009	7	0.0282787	0.2
34)	Di-n-octylphthalate	0.20	0.31	0.31	0.32	0.31	0.31	0.34	0.34	0.32	0.01414	7	0.0444487	5
35)	Benzo(b)Fluoranthene	0.20	0.18	0.17	0.19	0.18	0.20	0.19	0.22	0.19	0.01633	7	0.051325	0.2
36)	Benzo(k)fluoranthene	0.20	0.17	0.16	0.19	0.17	0.18	0.19	0.21	0.18143	0.01676	7	0.0526818	0.2
37)	Benzo(a)pyrene	0.20	0.13	0.12	0.13	0.12	0.12	0.14	0.13	0.12714	0.00756	7	0.0237588	0.2
38)	Indeno(1,2,3-cd)Pyrene	0.20	0.17	0.16	0.20	0.18	0.18	0.19	0.22	0.18571	0.01988	7	0.0624847	0.2
39)	Dibenz(a,h)anthracene	0.20	0.17	0.16	0.19	0.18	0.19	0.19	0.21	0.18429	0.01618	7	0.0508647	0.2
40)	Benzo(g,h,i)perylene	0.20	0.17	0.17	0.19	0.18	0.20	0.19	0.22	0.18857	0.01773	7	0.0557194	0.2

SEMIVOLATILE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-44B

Date Sampled : 06/24/08 09:10 Order #: 1112065 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650 Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/26/08		
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	0.94		
ACENAPHTHENE	0.20	0.19 U	UG/L
ACENAPHTHYLENE	0.20	0.19 U	UG/L
ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) PYRENE	0.20	0.19 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.19 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.19 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.19 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.7 U	UG/L
DI-N-BUTYLPHthalate	5.0	4.7 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.19 U	UG/L
CHRYSENE	0.20	0.19 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.19 U	UG/L
DIETHYLPHthalate	5.0	4.7 U	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	0.44 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	11	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.19 U	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.7 U	UG/L
PHENANTHRENE	0.20	0.19 U	UG/L
PYRENE	0.20	0.19 U	UG/L
PYRIDINE	2.0	1.9 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	85	%
NITROBENZENE-d5	(45 - 135 %)	71	%
2-FLUOROBIPHENYL	(45 - 135 %)	61	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS017.D Vial: 7
 Acq On : 1 Jul 2008 4:27 pm Operator: J.Wu
 Sample : 1112065 0.94 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 16:54:15 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	91387	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	330958	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	171797	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	382519	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	340314	1.00	ppm	0.00
33) d12-Perylene	21.31	264	191156	1.00	ppm	0.00

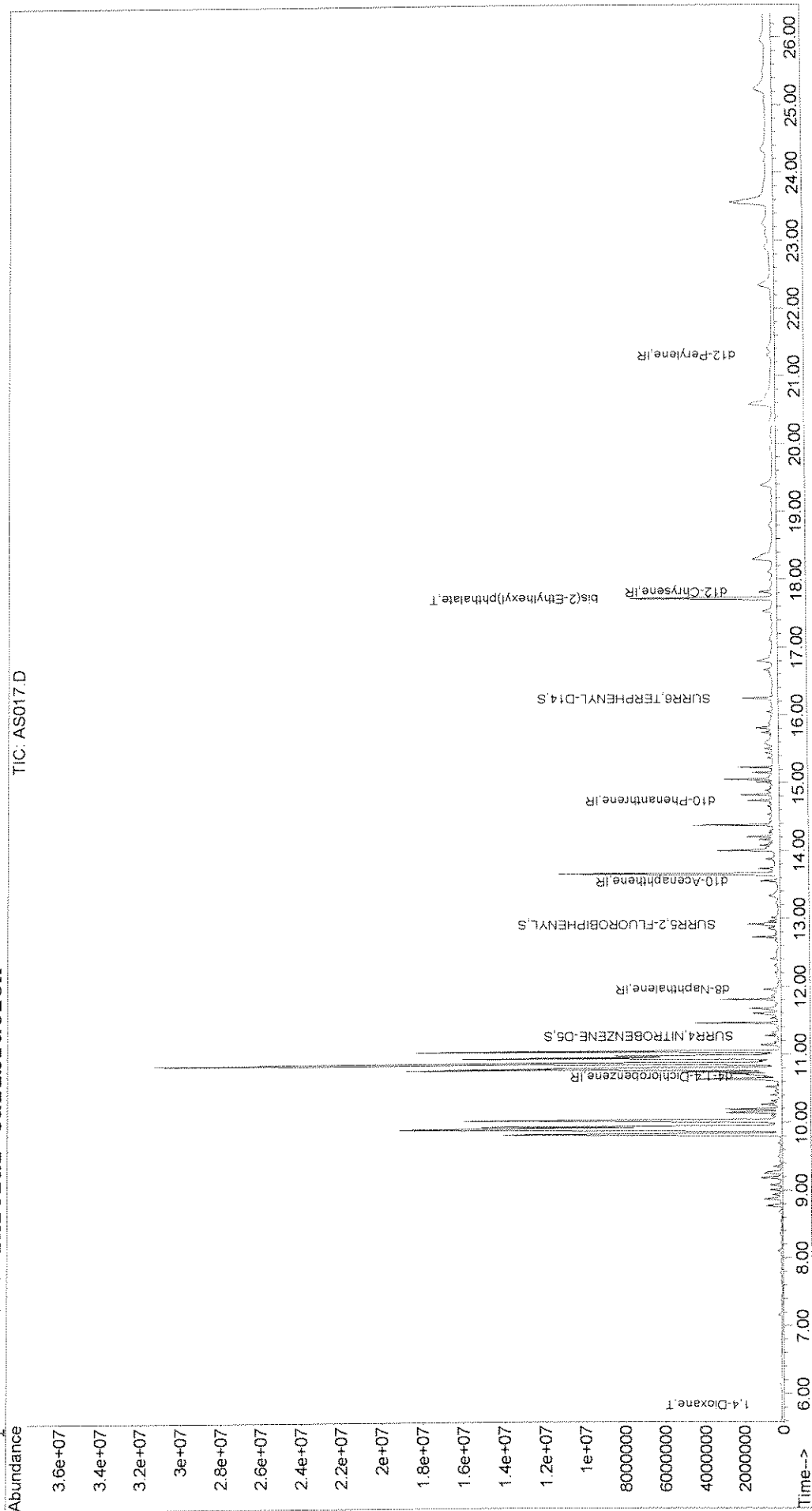
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	267813	1.41	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	70.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	358935	1.21	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	60.50%
28) SURR6,TERPHENYL-D14	16.25	244	488865	1.70	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	85.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	24866m	0.47	ppm	
30) bis(2-Ethylhexyl)phthalate	17.72	149	2891145	11.73	ppm	100

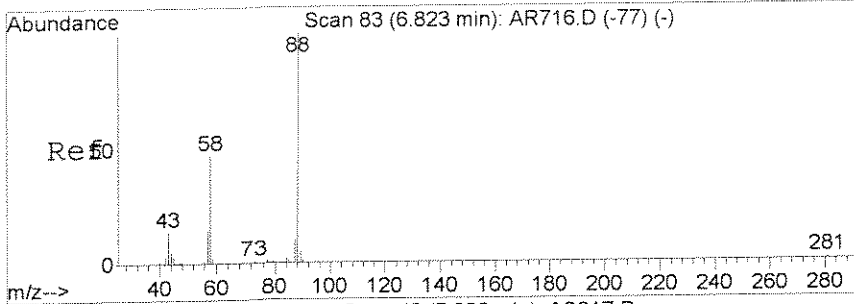
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS017.D Vial: 7
 Acq On : 1 Jul 2008 4:27 pm Operator: J.Wu
 Sample : 1112065 0.94 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 6:40 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

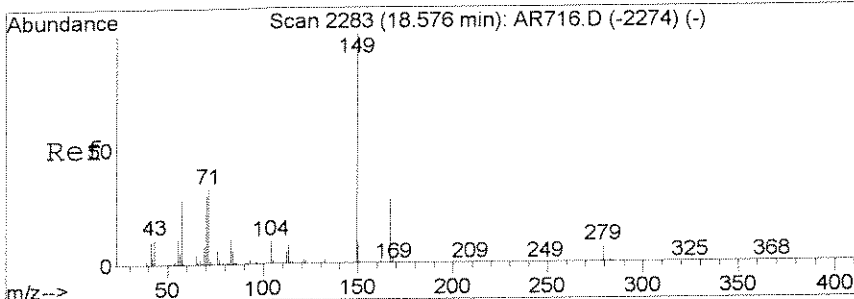
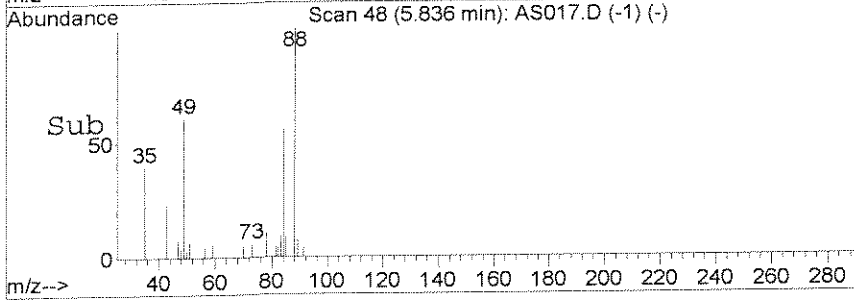
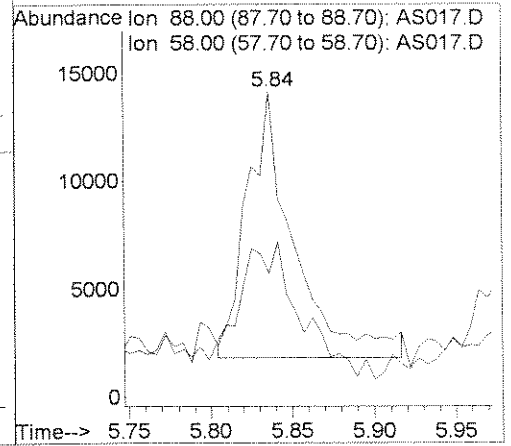
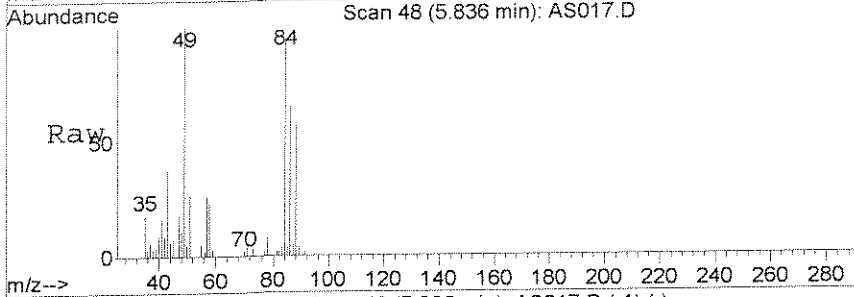


00701



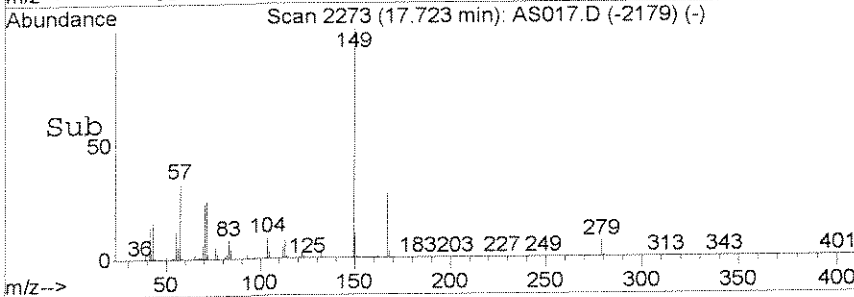
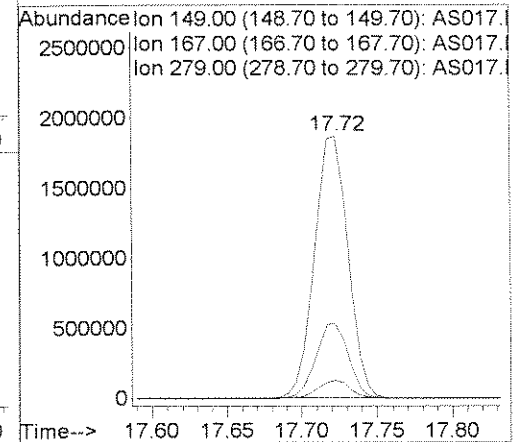
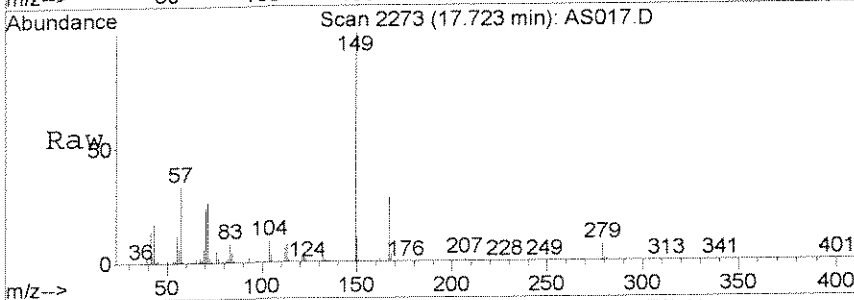
#2
 1,4-Dioxane
 Concen: 0.47 ppm m
 RT: 5.84 min Scan# 48
 Delta R.T. 0.03 min
 Lab File: AS017.D
 Acq: 1 Jul 2008 4:27 pm

Tgt Ion	Resp	Lower	Upper
88	24866		
58	40.6	38.6	78.6



#30
 bis(2-Ethylhexyl) phthalate
 Concen: 11.73 ppm
 RT: 17.72 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: AS017.D
 Acq: 1 Jul 2008 4:27 pm

Tgt Ion	Resp	Lower	Upper
149	2891145		
167	28.3	22.5	33.7
279	6.8	5.5	8.3



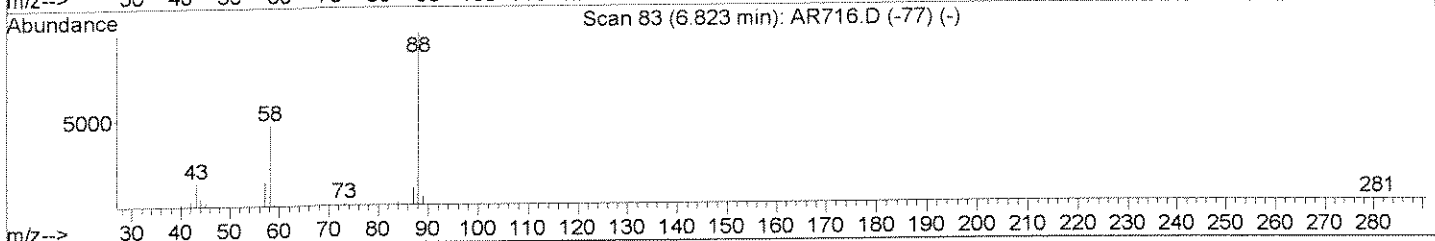
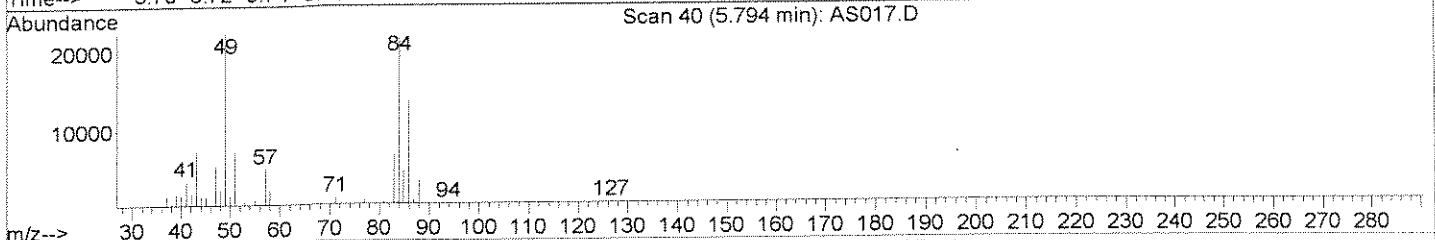
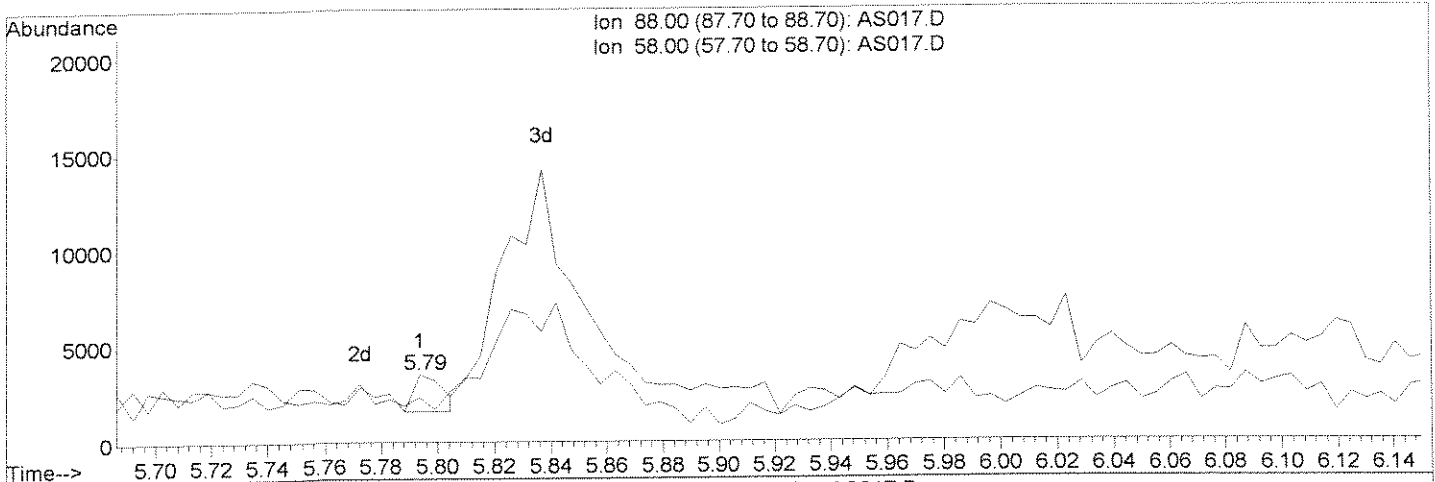
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS017.D
 Acq On : 1 Jul 2008 4:27 pm
 Sample : 1112065 0.94
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 1 16:54 2008

Vial: 7
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



TIC: AS017.D

(2) 1,4-Dioxane (T)		
5.79min 0.03ppm		
response 1374		
Ion	Exp%	Act%
88.00	100	100
58.00	58.60	6.32#
0.00	0.00	0.00
0.00	0.00	0.00

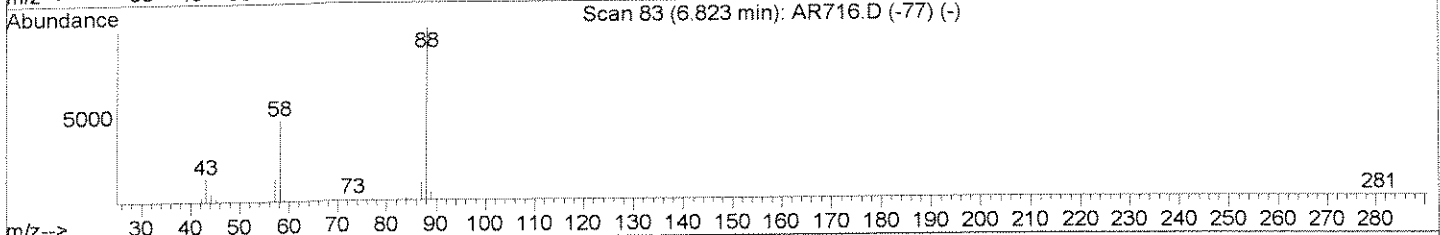
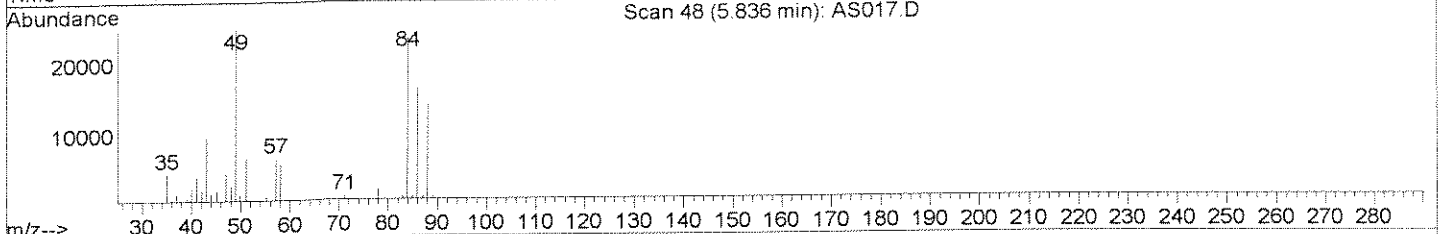
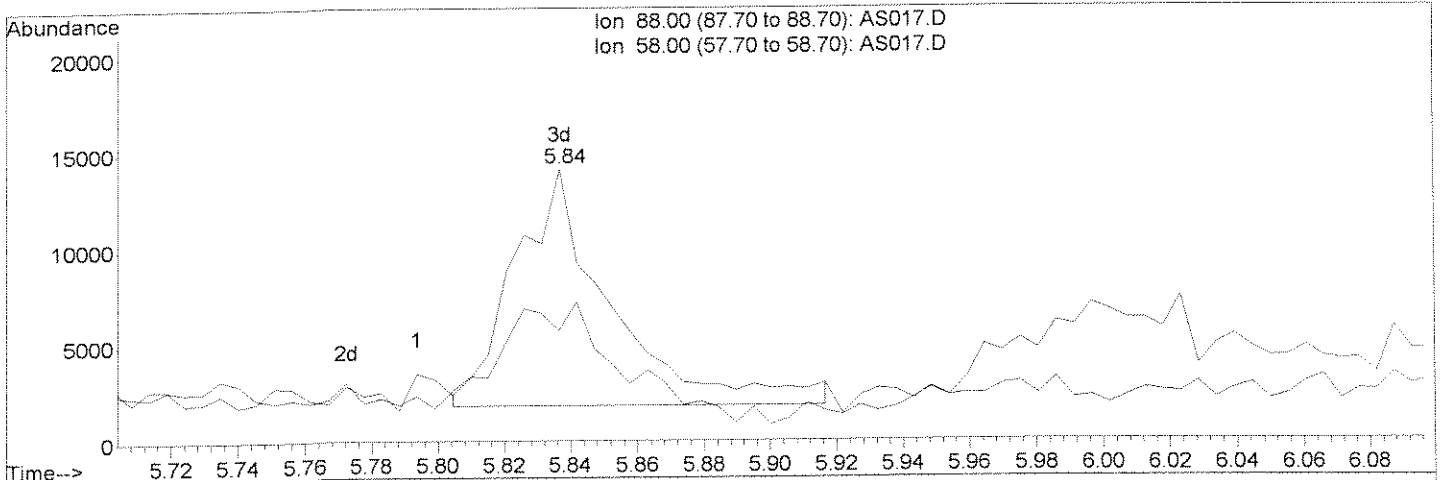
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS017.D
 Acq On : 1 Jul 2008 4:27 pm
 Sample : 1112065 0.94
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 6:39 2008

Vial: 7
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)

5.84min 0.47ppm m

response 24866

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	40.55
0.00	0.00	0.00
0.00	0.00	0.00

A 7/6
WJW

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : H-49AB

Date Sampled : 06/24/08 09:00 **Order #:** 1112066 **Sample Matrix:** WATER
Date Received: 06/25/08 **Submission #:** R2844650 **Analytical Run** 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/26/08		
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) PYRENE	0.20	0.20 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.20 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.20 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	5.0 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	5.0 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHTHALATE	5.0	0.15 J	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4-DIOXANE	2.0	0.91 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.0 U	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLOROBENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.080 JB	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.20 U	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	102	%
NITROBENZENE-d5	(45 - 135 %)	77	%
2-FLUOROBIPHENYL	(45 - 135 %)	67	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070108\AS018.D Vial: 8
 Acq On : 1 Jul 2008 5:03 pm Operator: J.Wu
 Sample : 1112066 1.0 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 17:29:32 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

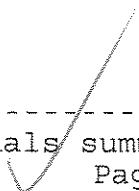
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	83113	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	318074	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	153851	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	369407	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	316756	1.00	ppm	0.00
33) d12-Perylene	21.31	264	235359	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	278591	1.53	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	76.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	362332	1.34	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	67.00%
28) SURR6,TERPHENYL-D14	16.25	244	544222	2.03	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	101.50%

Target Compounds

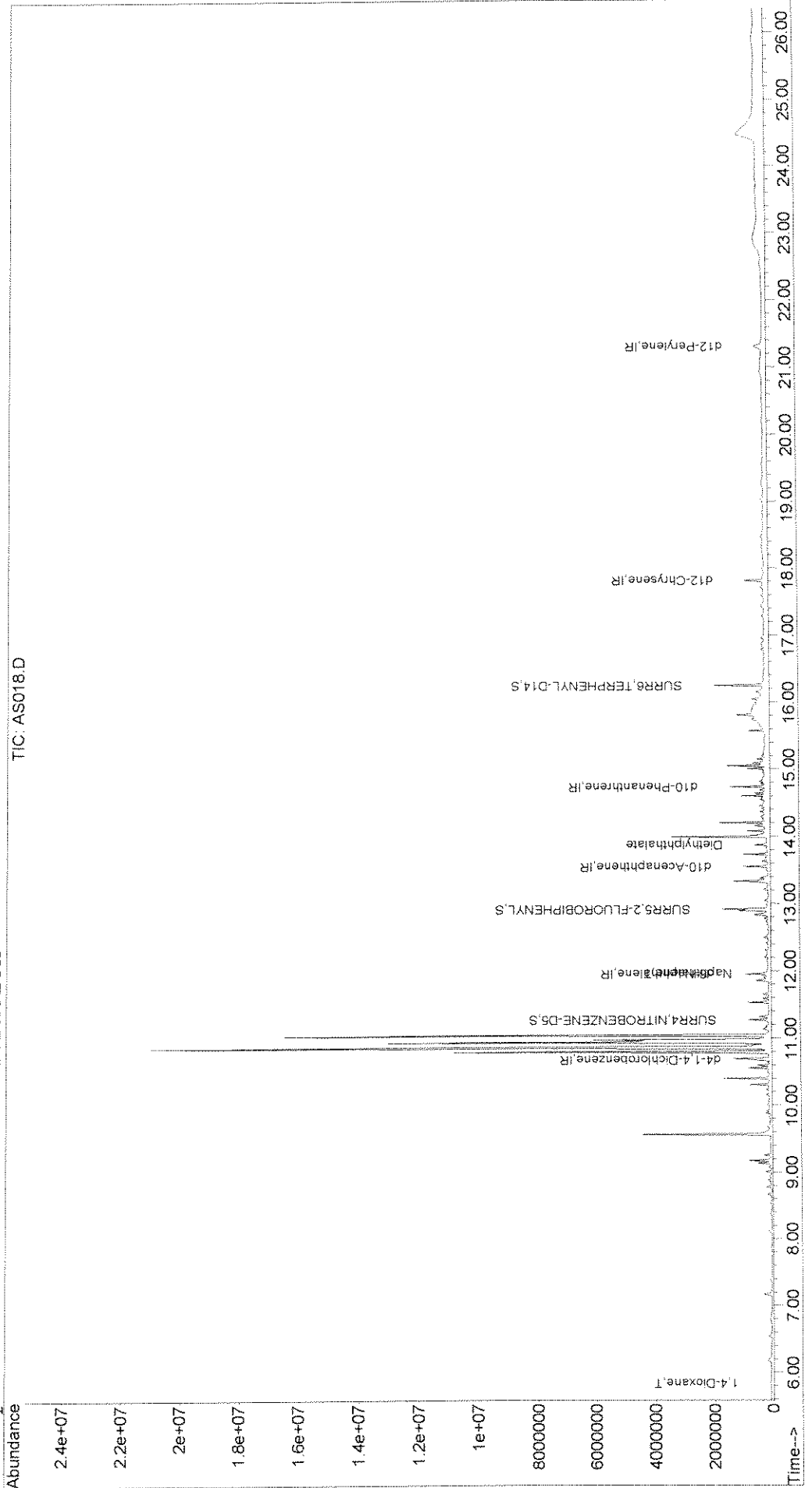
	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	43483	0.91	ppm	90
7) Naphthalene	11.97	128	26161	0.08	ppm	90
17) Diethylphthalate	13.88	149	37635	0.15	ppm	97

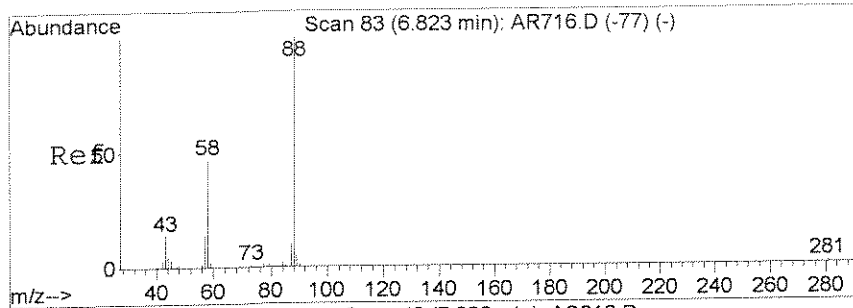
JW

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Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS018.D Vial: 8
Acq On : 1 Jul 2008 5:03 pm Operator: J.Wu
Sample : 1112066 1.0 Inst : 5973C
Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 6:43 2008 Quant Results File: LVI0626.RES

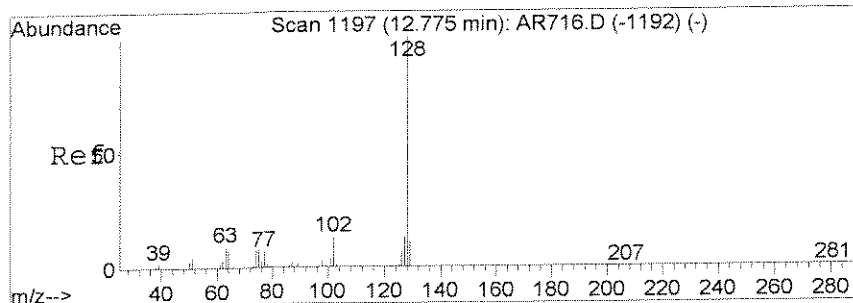
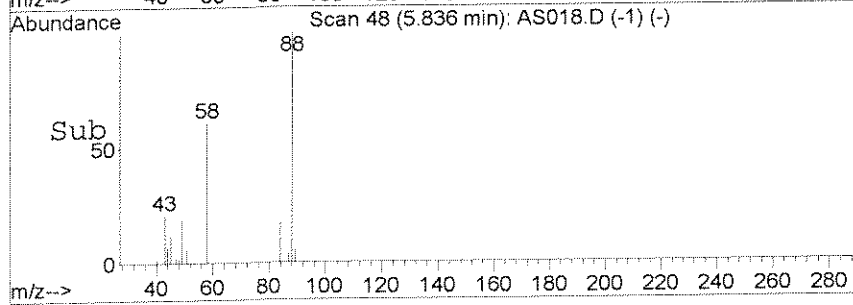
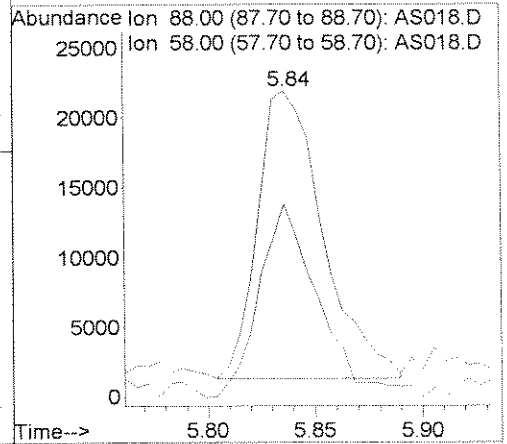
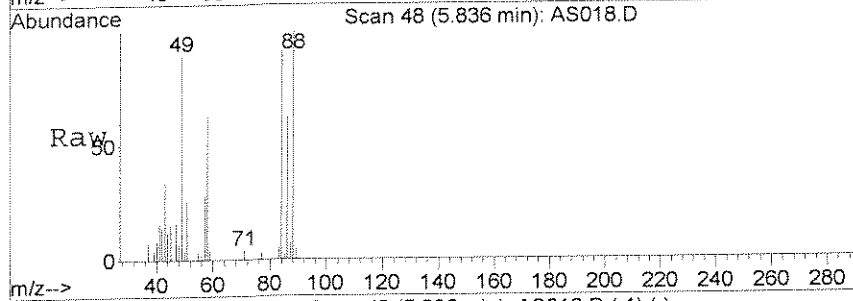
Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration





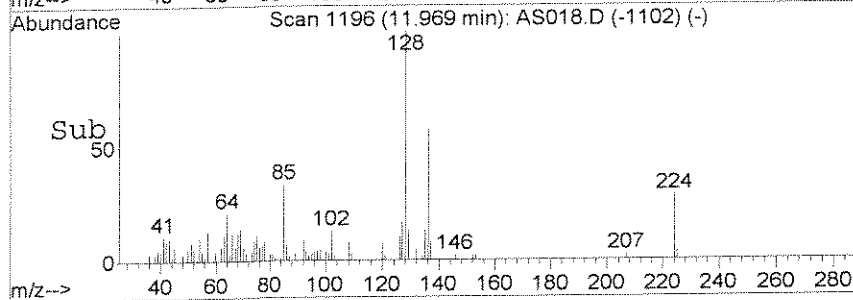
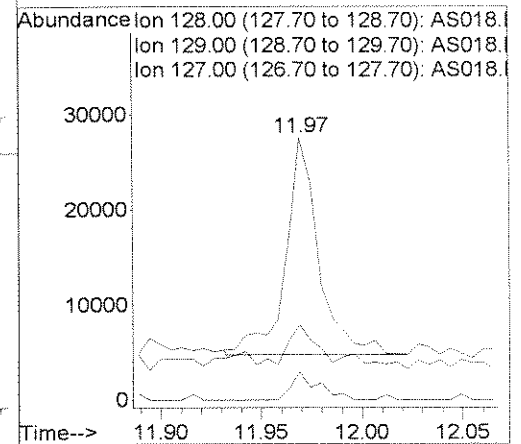
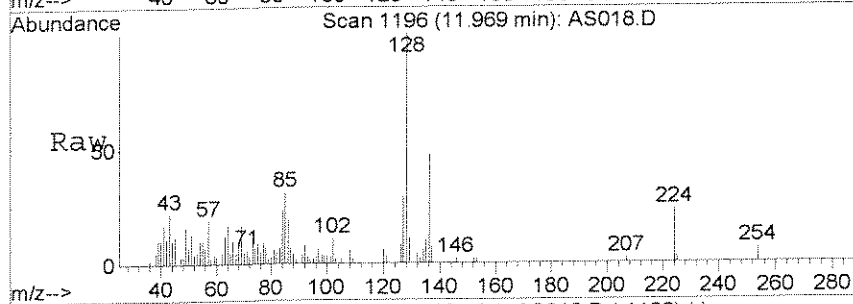
#2
 1,4-Dioxane
 Concen: 0.91 ppm
 RT: 5.84 min Scan# 48
 Delta R.T. 0.03 min
 Lab File: AS018.D
 Acq: 1 Jul 2008 5:03 pm

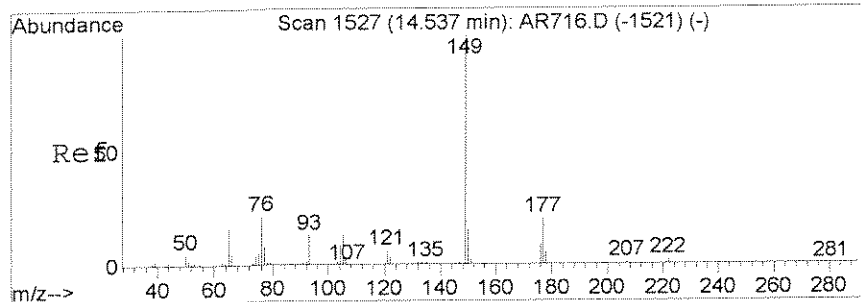
Tgt Ion	Resp	Lower	Upper
88	43483		
58	66.0	38.6	78.6



#7
 Naphthalene
 Concen: 0.08 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: AS018.D
 Acq: 1 Jul 2008 5:03 pm

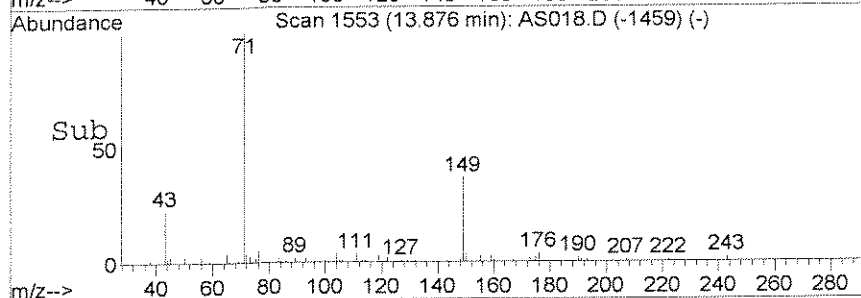
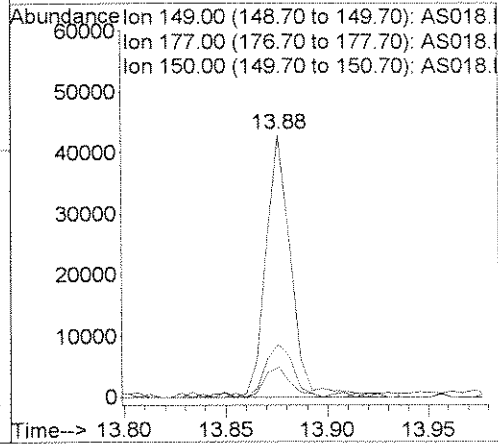
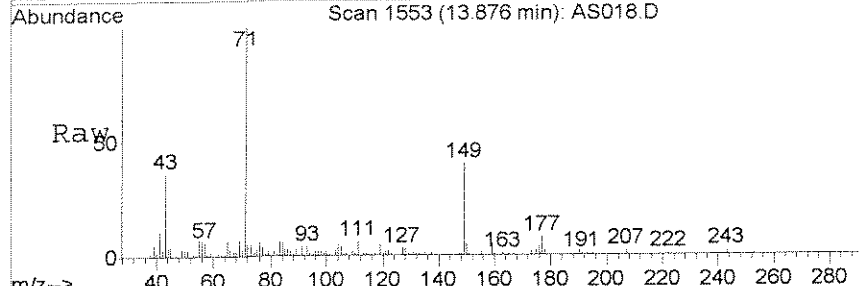
Tgt Ion	Resp	Lower	Upper
128	26161		
129	13.0	0.0	31.0
127	18.1	0.0	32.4





#17
 Diethylphthalate
 Concen: 0.15 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AS018.D
 Acq: 1 Jul 2008 5:03 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
177	20.4	15.3	28.3
150	10.9	8.3	15.3



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : FB062408GWAREA1

Date Sampled : 06/24/08 12:00 Order #: 1112067 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650 Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/26/08		
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	0.94		
ACENAPHTHENE	0.20	0.19 U	UG/L
ACENAPHTHYLENE	0.20	0.19 U	UG/L
ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) PYRENE	0.20	0.19 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.19 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.19 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.19 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.7 U	UG/L
DI-N-BUTYL PHTHALATE	5.0	4.7 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.19 U	UG/L
CHRYSENE	0.20	0.19 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.19 U	UG/L
DIETHYL PHTHALATE	5.0	0.18 J	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	1.9 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.7 U	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.075 J	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.7 U	UG/L
PHENANTHRENE	0.20	0.19 U	UG/L
PYRENE	0.20	0.19 U	UG/L
PYRIDINE	2.0	1.9 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	100	%
NITROBENZENE-d5	(45 - 135 %)	78	%
2-FLUOROBIPHENYL	(45 - 135 %)	69	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS019.D
 Acq On : 1 Jul 2008 5:38 pm
 Sample : 1112067 0.94
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 18:04:27 2008

Vial: 9
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	81484	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	317036	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	155140	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	363648	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	309224	1.00	ppm	0.00
33) d12-Perylene	21.30	264	229356	1.00	ppm	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	282557	1.56	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	78.00%		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	379707	1.38	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	69.00%		
28) SURR6,TERPHENYL-D14	16.25	244	524066	2.00	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	100.00%		

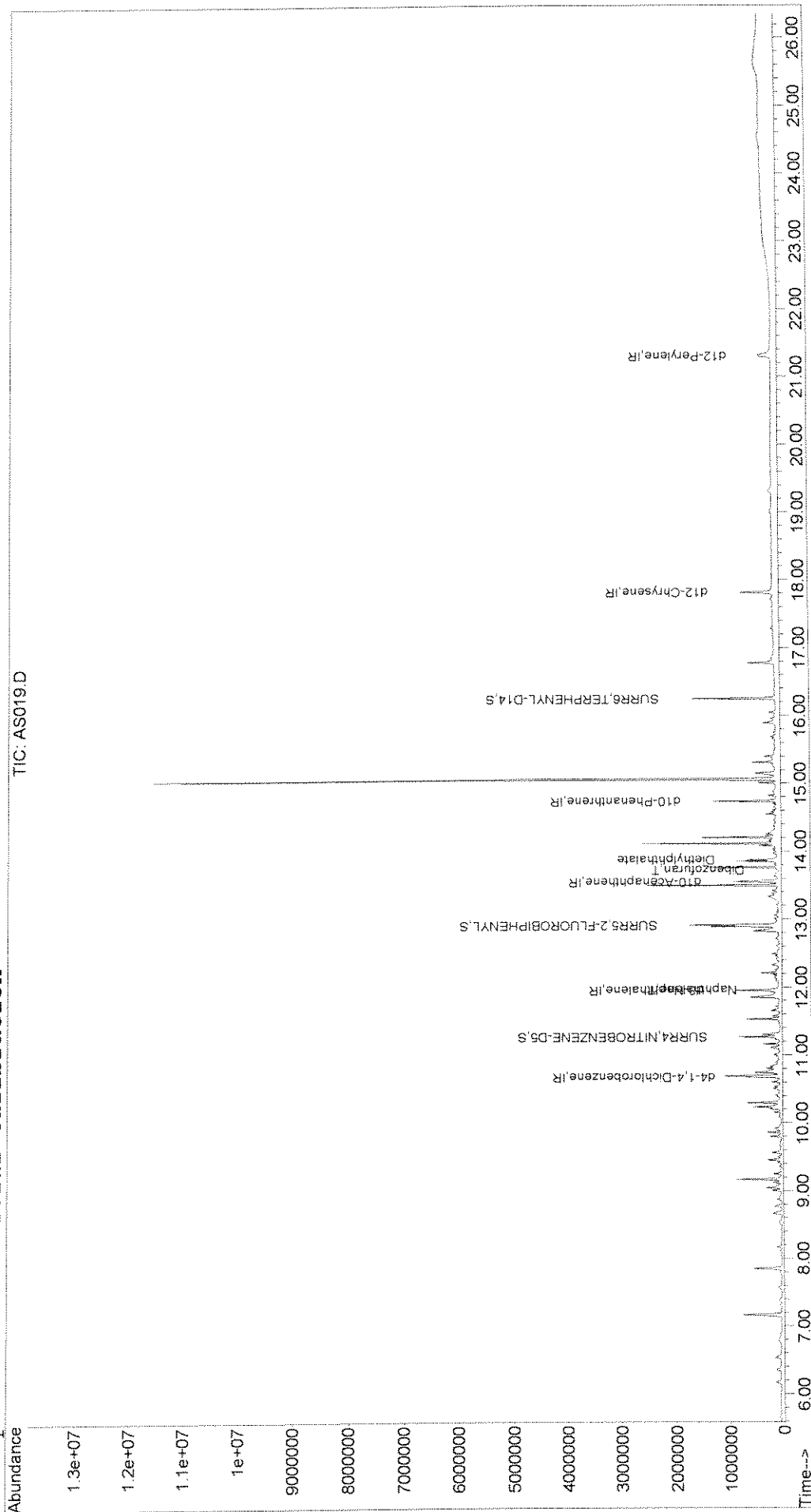
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Naphthalene	11.97	128	27525	0.08	ppm	99
15) Dibenzofuran	13.72	168	2440	0.22	ppm	78
17) Diethylphthalate	13.88	149	47523	0.19	ppm	95

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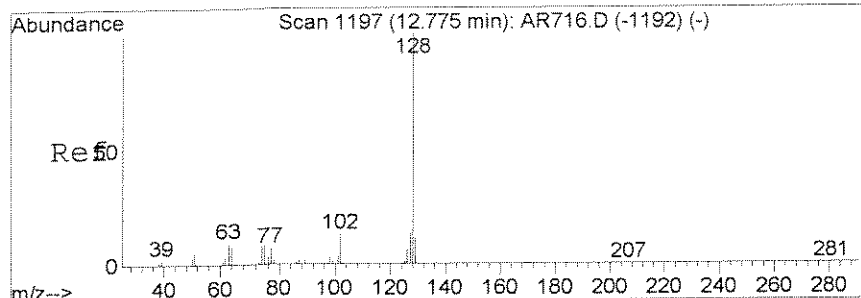
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS019.D Vial: 9
 Acq On : 1 Jul 2008 5:38 pm Operator: J.Wu
 Sample : 1112067 0.94 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 6:47 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

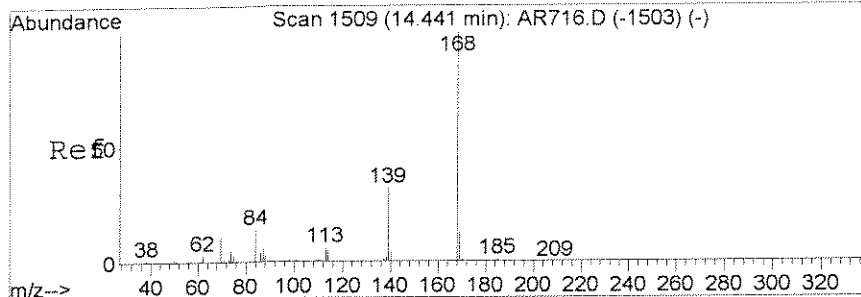
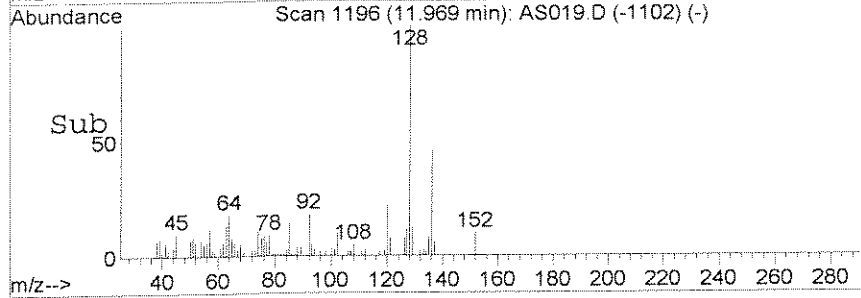
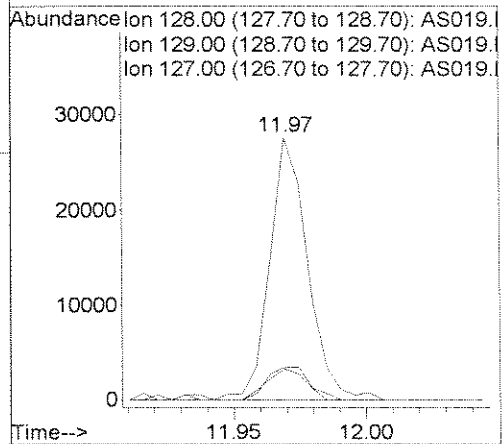
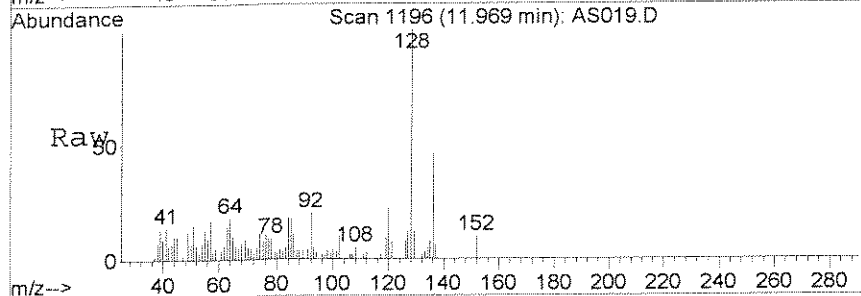


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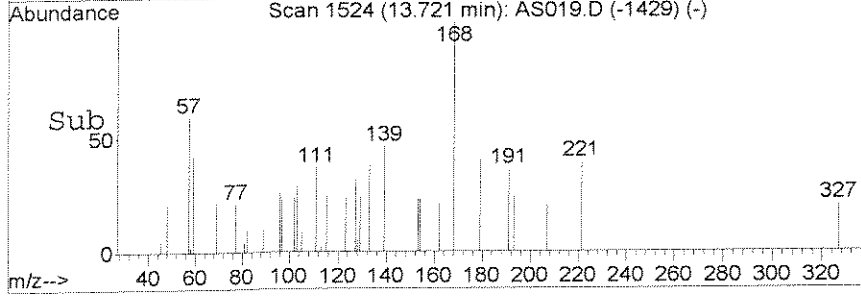
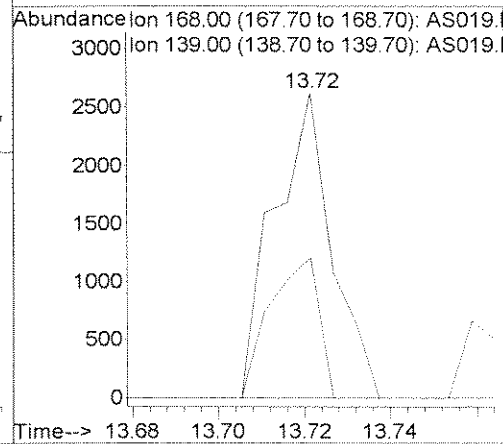
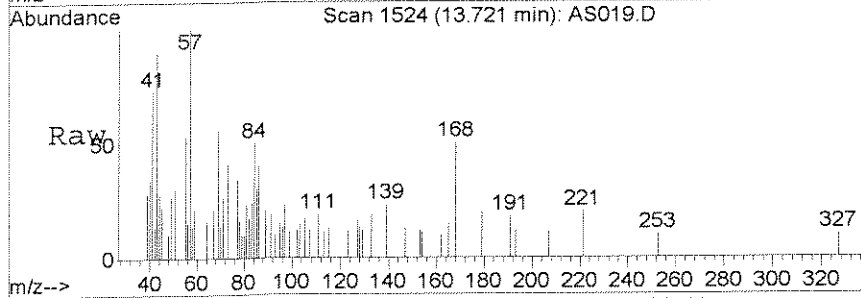
#7
 Naphthalene
 Concen: 0.08 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: AS019.D
 Acq: 1 Jul 2008 5:38 pm

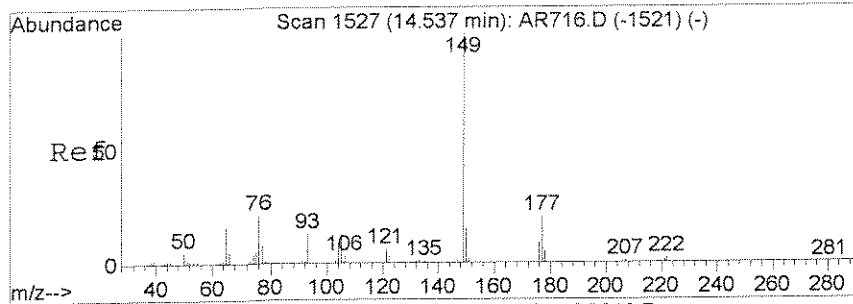
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	0.0	31.0
127	12.4	0.0	32.4



#15
 Dibenzofuran
 Concen: 0.22 ppm
 RT: 13.72 min Scan# 1524
 Delta R.T. 0.01 min
 Lab File: AS019.D
 Acq: 1 Jul 2008 5:38 pm

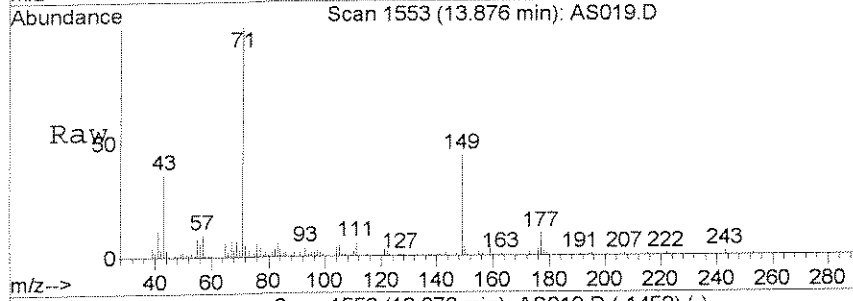
Tgt Ion	Ratio	Lower	Upper
168	100		
139	46.0	13.7	53.7



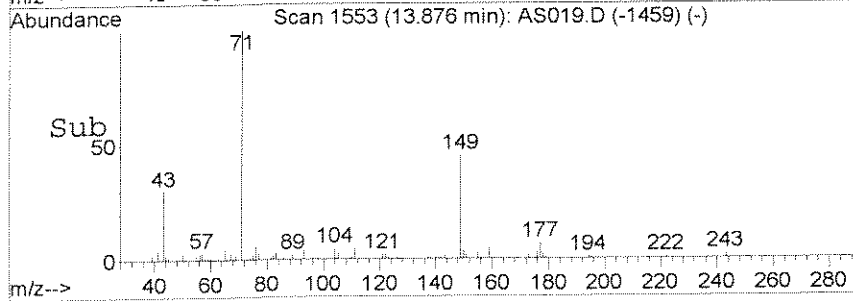
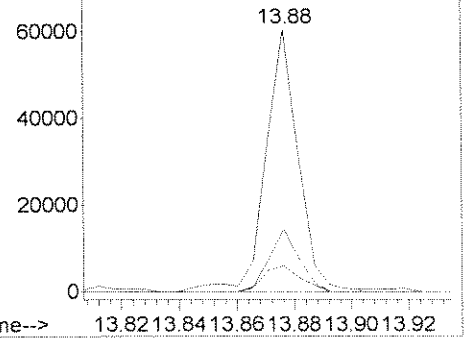


#17
 Diethylphthalate
 Concen: 0.19 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AS019.D
 Acq: 1 Jul 2008 5:38 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
177	23.8	15.3	28.3
150	9.9	8.3	15.3



Abundance Ion 149.00 (148.70 to 149.70): AS019.D
 Ion 177.00 (176.70 to 177.70): AS019.D
 Ion 150.00 (149.70 to 150.70): AS019.D



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-45B

Date Sampled : 06/25/08 13:00 Order #: 1112486 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	4.72		
ACENAPHTHENE	0.20	0.94 U	UG/L
ACENAPHTHYLENE	0.20	0.94 U	UG/L
ANTHRACENE	0.20	0.94 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.94 U	UG/L
BENZO (A) PYRENE	0.20	0.94 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.94 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.94 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.94 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	24 U	UG/L
DI-N-BUTYL PHTHALATE	5.0	24 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.94 U	UG/L
CHRYSENE	0.20	0.94 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.94 U	UG/L
DIETHYL PHTHALATE	5.0	24 U	UG/L
DIMETHYL PHTHALATE	5.0	24 U	UG/L
1, 4-DIOXANE	2.0	1.5 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	24 U	UG/L
FLUORANTHENE	0.20	0.94 U	UG/L
FLUORENE	0.20	0.94 U	UG/L
HEXACHLORO BENZENE	0.20	0.94 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.94 U	UG/L
NAPHTHALENE	0.20	0.94 U	UG/L
NITROBENZENE	0.20	0.94 U	UG/L
OCTACHLOROSTYRENE	0.20	0.94 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	24 U	UG/L
PHENANTHRENE	0.20	0.94 U	UG/L
PYRENE	0.20	0.94 U	UG/L
PYRIDINE	2.0	9.4 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	93	%
NITROBENZENE-d5	(45 - 135 %)	80	%
2-FLUOROBIPHENYL	(45 - 135 %)	110	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070208\AS037.D Vial: 3
 Acq On : 2 Jul 2008 9:06 am Operator: J.Wu
 Sample : 1112486 4.72 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1X5 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 09:33:25 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	90493	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	324482	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	138767	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	345532	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	281169	1.00	ppm	0.00
33) d12-Perylene	21.31	264	203441	1.00	ppm	0.00

System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	59759	0.32	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	16.00%#
11) SURR5,2-FLUOROBIPHENYL	12.91	172	65931	0.44	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	22.00%#
28) SURR6,TERPHENYL-D14	16.25	244	87817	0.37	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	18.50%#

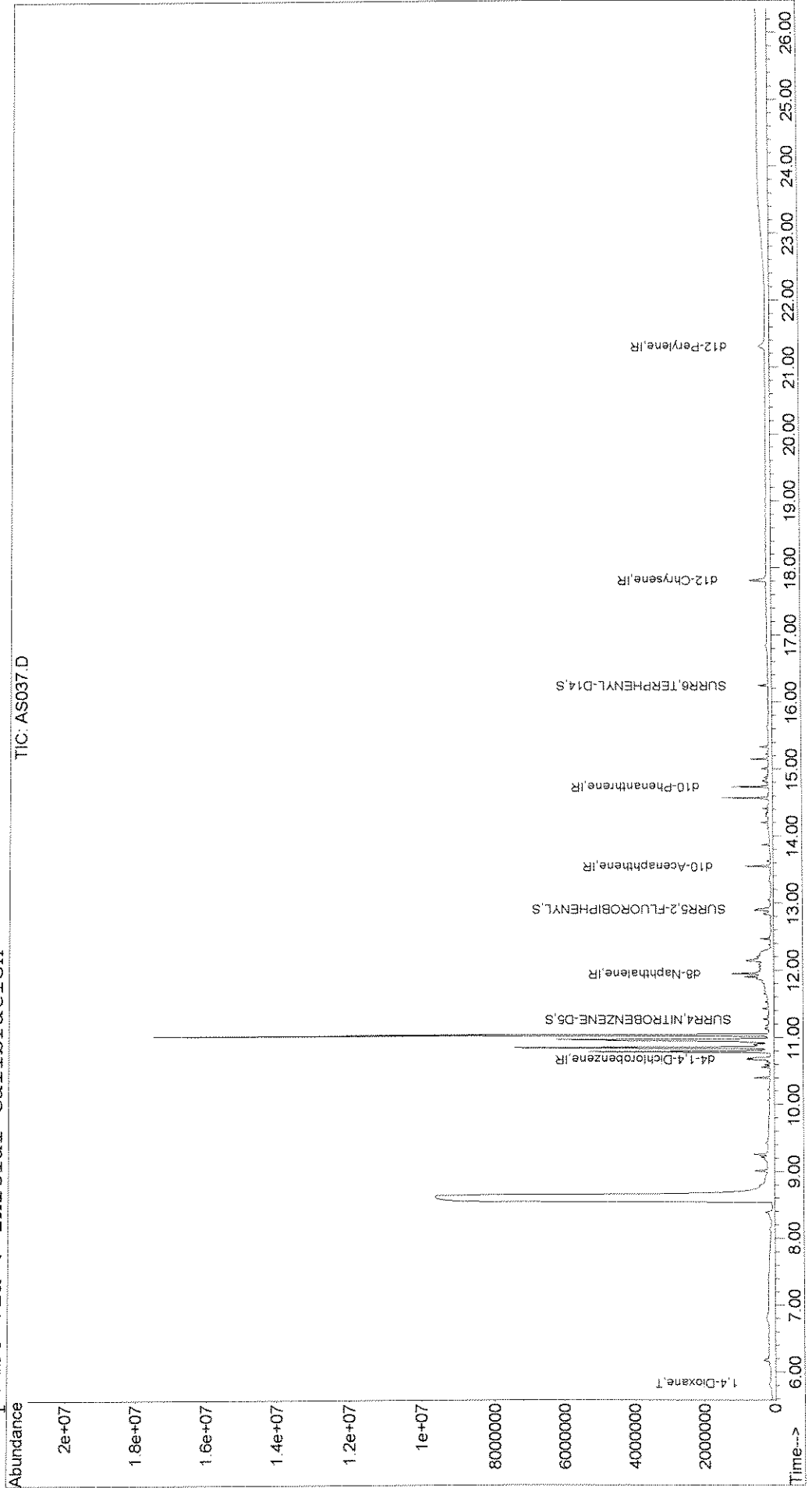
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	16090	0.31	ppm	90

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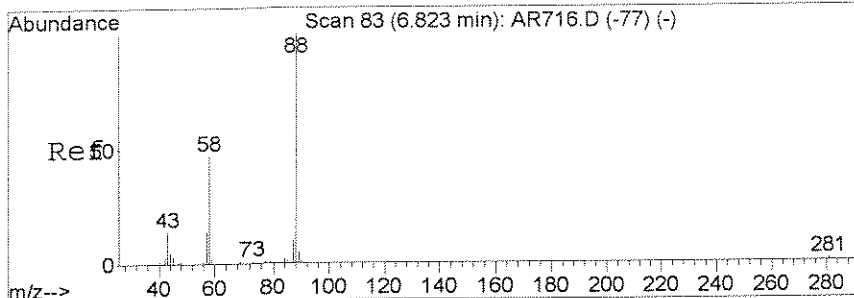
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS037.D Vial: 3
Acq On : 2 Jul 2008 9:06 am Operator: J.Wu
Sample : 1112486 4.72 Inst : 5973C
Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1X5 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 9:56 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration

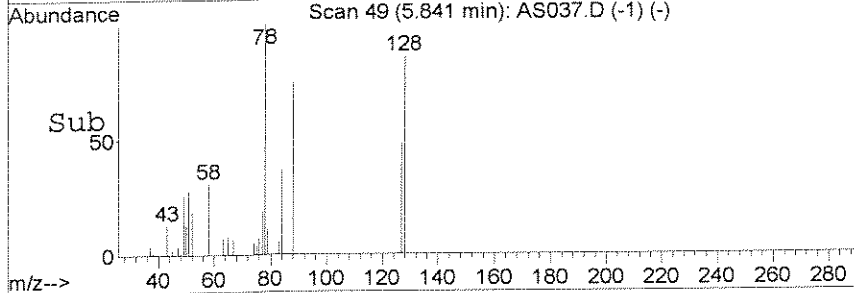
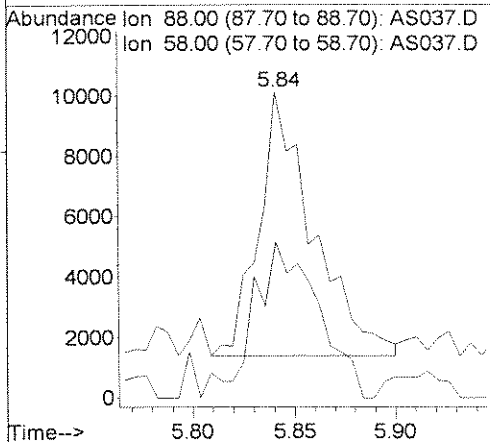
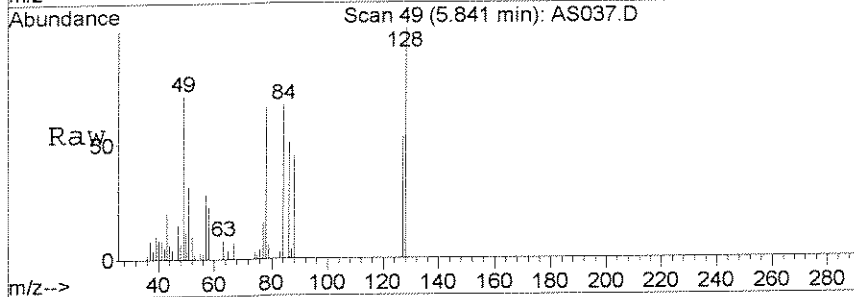


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#2
 1,4-Dioxane
 Concen: 0.31 ppm
 RT: 5.84 min Scan# 49
 Delta R.T. 0.04 min
 Lab File: AS037.D
 Acq: 2 Jul 2008 9:06 am

Tgt Ion	88	Resp	16090
Ion Ratio	Lower	Upper	
88	100		
58	51.3	38.6	78.6



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : MC-53B

Date Sampled : 06/25/08 12:00 Order #: 1112487 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	2.83		
ACENAPHTHENE	0.20	0.57 U	UG/L
ACENAPHTHYLENE	0.20	0.57 U	UG/L
ANTHRACENE	0.20	0.57 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.57 U	UG/L
BENZO (A) PYRENE	0.20	0.57 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.57 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.57 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.57 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	0.71 JB	UG/L
DI-N-BUTYLPHTHALATE	5.0	14 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.57 U	UG/L
CHRYSENE	0.20	0.57 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.57 U	UG/L
DIETHYLPHTHALATE	5.0	14 U	UG/L
DIMETHYL PHTHALATE	5.0	14 U	UG/L
1, 4-DIOXANE	2.0	1.2 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	14 U	UG/L
FLUORANTHENE	0.20	0.57 U	UG/L
FLUORENE	0.20	0.57 U	UG/L
HEXACHLOROBENZENE	0.20	0.57 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.57 U	UG/L
NAPHTHALENE	0.20	0.57 U	UG/L
NITROBENZENE	0.20	0.57 U	UG/L
OCTACHLOROSTYRENE	0.20	0.57 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	14 U	UG/L
PHENANTHRENE	0.20	0.57 U	UG/L
PYRENE	0.20	0.57 U	UG/L
PYRIDINE	2.0	5.7 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	93	%
NITROBENZENE-d5	(45 - 135 %)	84	%
2-FLUOROBIPHENYL	(45 - 135 %)	92	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS038.D Vial: 4
 Acq On : 2 Jul 2008 9:42 am Operator: J.Wu
 Sample : 1112487 2.83 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1X3 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 10:08:52 2008 Quant Results File: LVI0626.RES

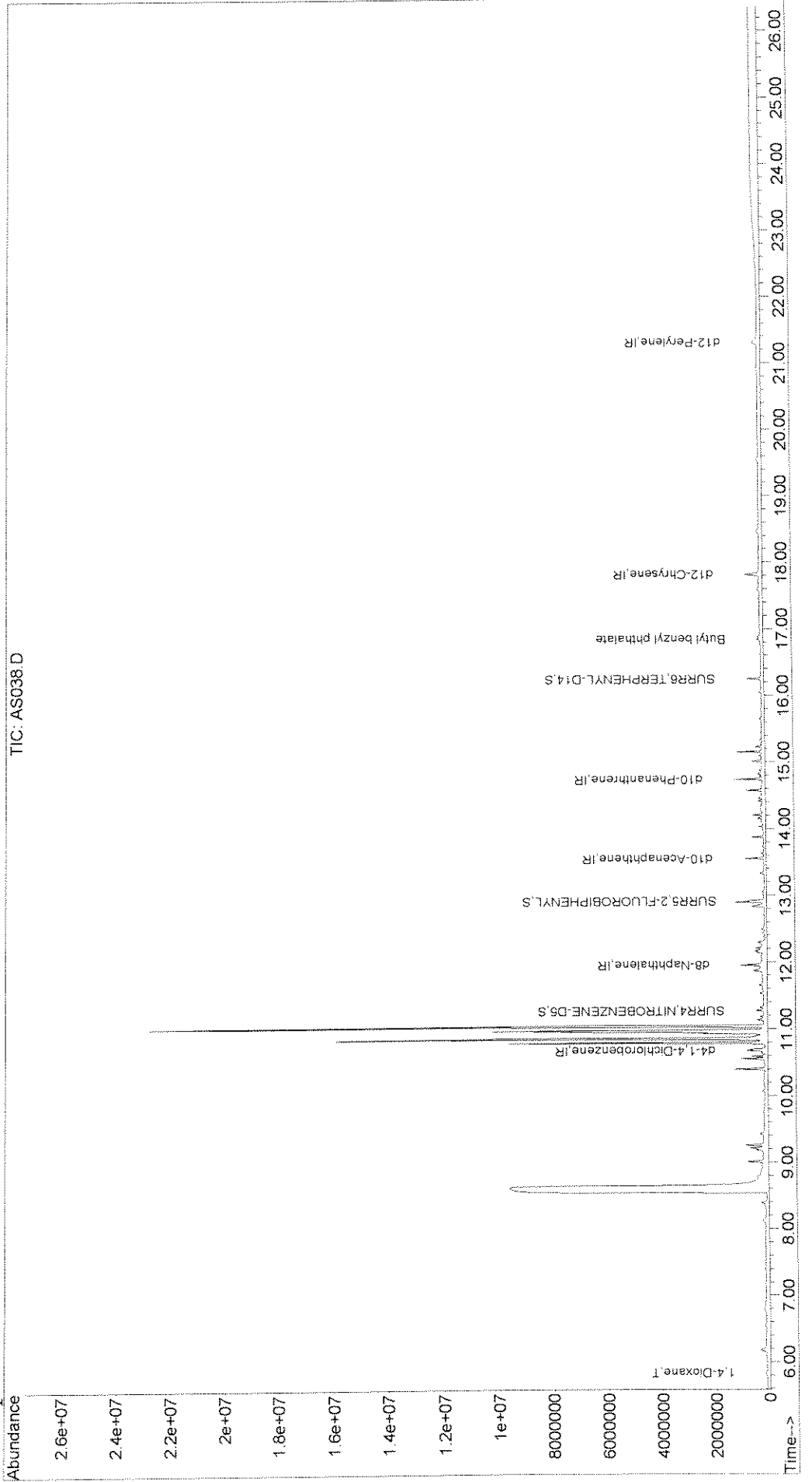
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

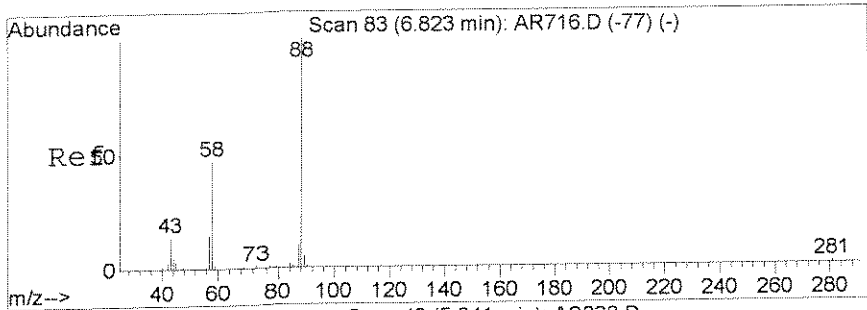
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	88550	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	319981	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	135442	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	341489	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	293514	1.00	ppm	0.00
33) d12-Perylene	21.31	264	205438	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	102351	0.56	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	28.00%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	113216	0.61	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	30.50%
28) SURR6,TERPHENYL-D14	16.25	244	153694	0.62	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	31.00%
Target Compounds						
2) 1,4-Dioxane	5.84	88	22036m	0.43	ppm	Qvalue
29) Butyl benzyl phthalate	16.85	149	36390	0.25	ppm	96

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS038.D Vial: 4
 Acq On : 2 Jul 2008 9:42 am Operator: J.Wu
 Sample : 1112487 2.83 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1X3 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 8:16 2008 Quant Results File: LVI0626.RES

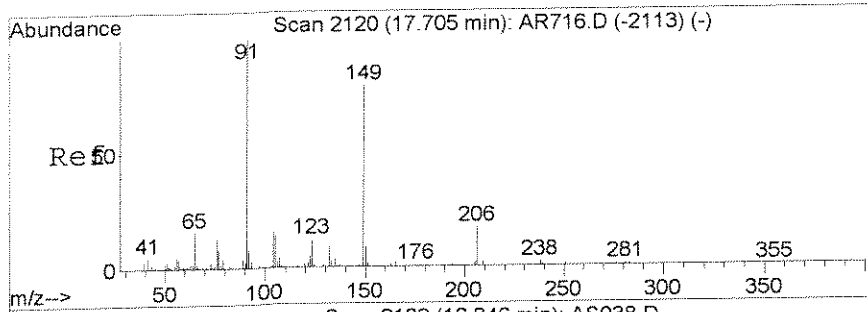
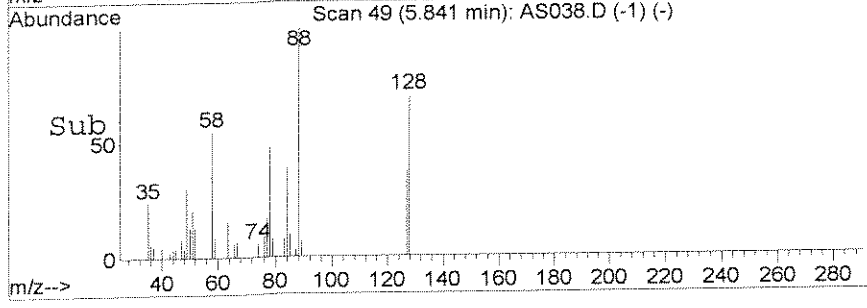
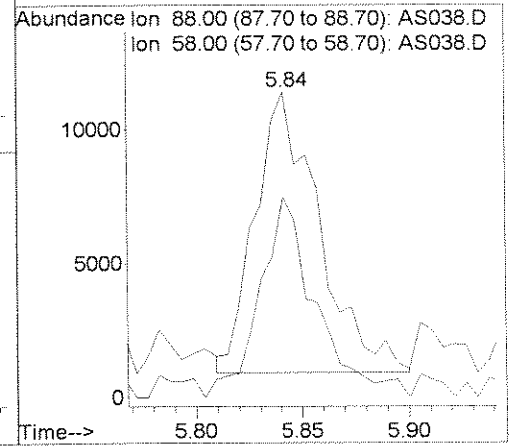
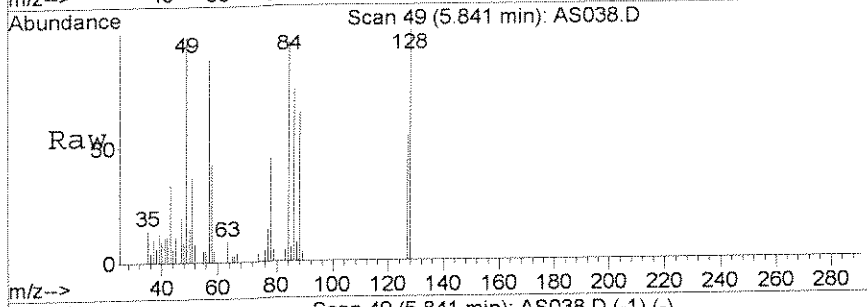
Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration





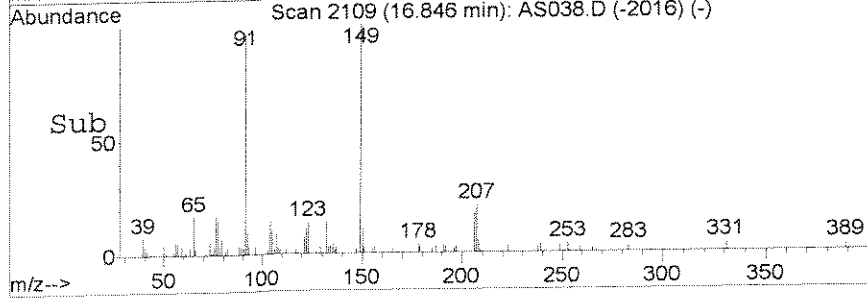
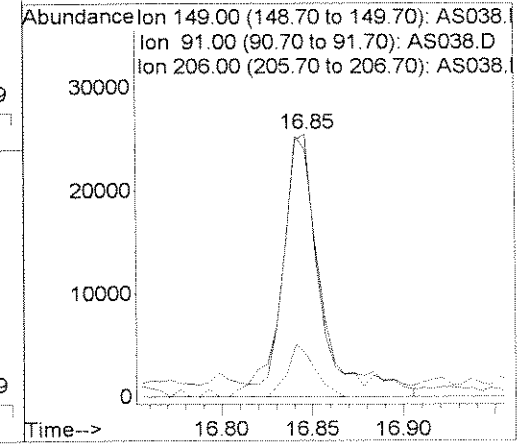
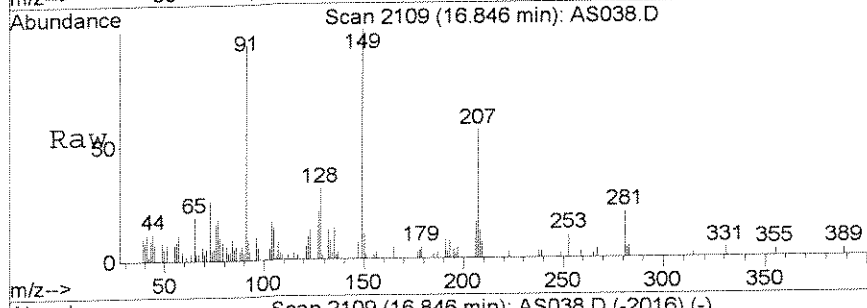
#2
 1,4-Dioxane
 Concen: 0.43 ppm m
 RT: 5.84 min Scan# 49
 Delta R.T. 0.04 min
 Lab File: AS038.D
 Acq: 2 Jul 2008 9:42 am

Tgt Ion	Resp	Lower	Upper
88	22036		
88	100		
58	65.5	38.6	78.6



#29
 Butyl benzyl phthalate
 Concen: 0.25 ppm
 RT: 16.85 min Scan# 2109
 Delta R.T. -0.00 min
 Lab File: AS038.D
 Acq: 2 Jul 2008 9:42 am

Tgt Ion	Resp	Lower	Upper
149	36390		
149	100		
91	90.3	65.7	122.1
206	16.5	12.7	23.5



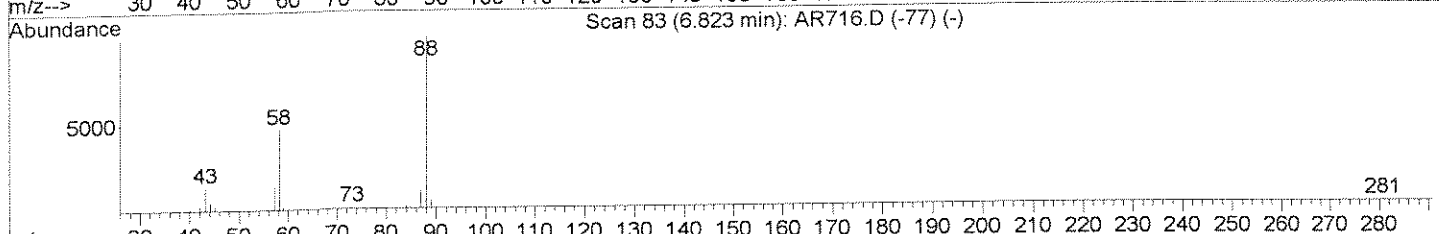
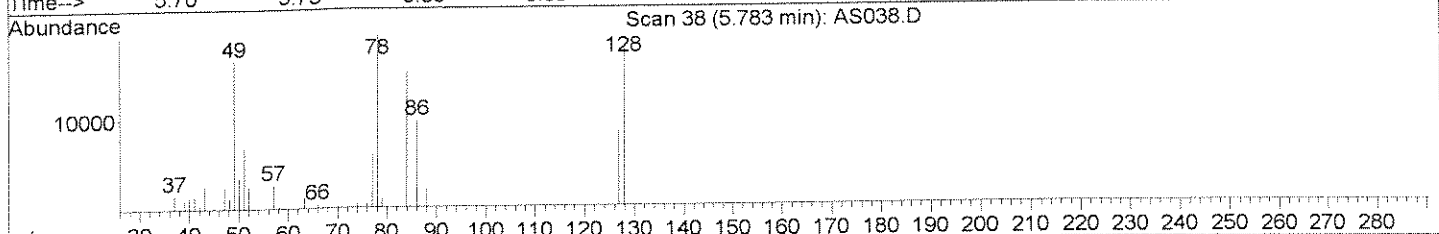
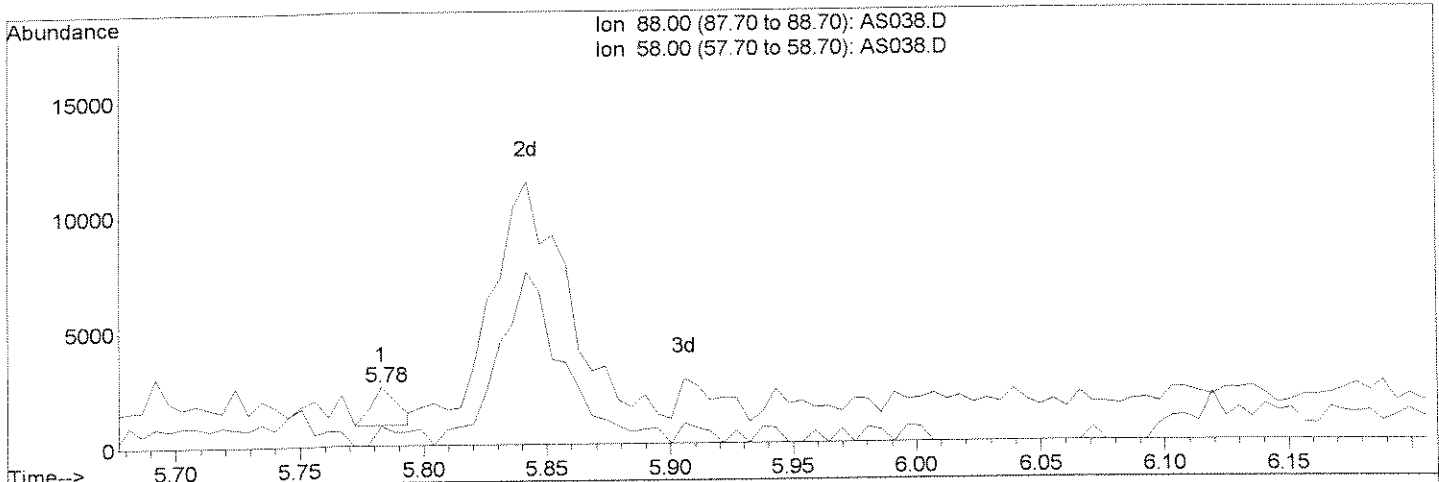
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS038.D
 Acq On : 2 Jul 2008 9:42 am
 Sample : 1112487 2.83
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1X3
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 10:08 2008

Vial: 4
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)
 5.78min 0.02ppm
 response 1232

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	39.53
0.00	0.00	0.00
0.00	0.00	0.00

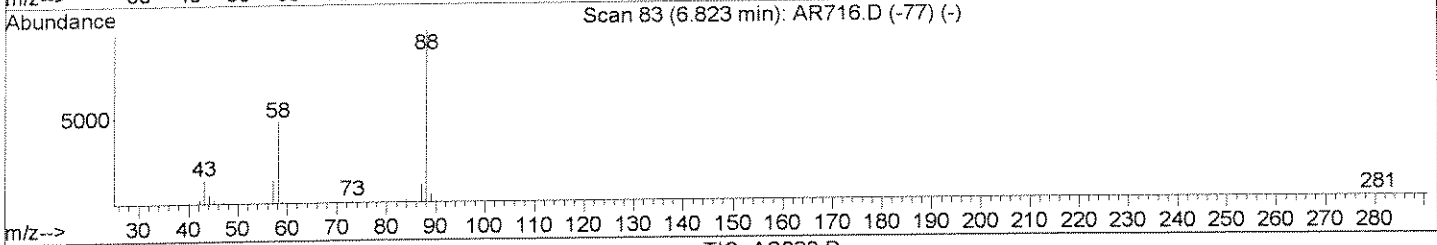
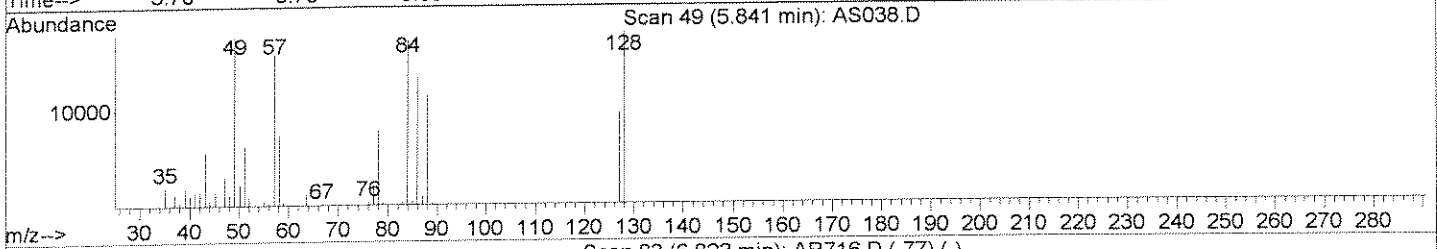
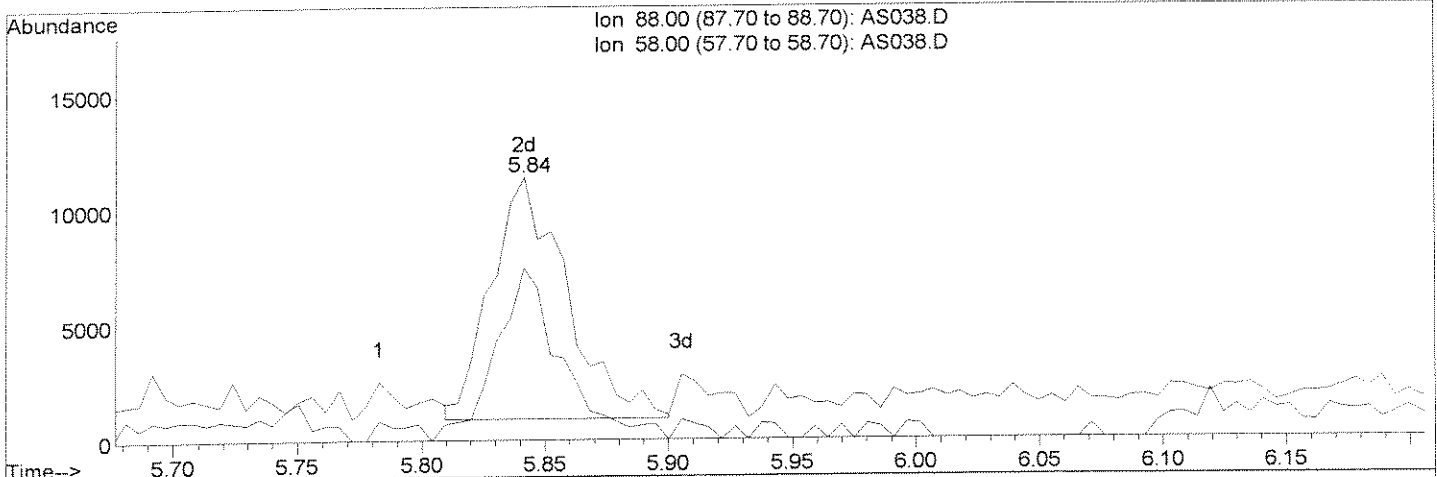
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS038.D
 Acq On : 2 Jul 2008 9:42 am
 Sample : 1112487 2.83
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1X3
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 8:14 2008

Vial: 4
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)
 5.84min 0.43ppm m
 response 22036

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	65.49
0.00	0.00	0.00
0.00	0.00	0.00

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WJ/B

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-23B

Date Sampled : 06/25/08 08:00 Order #: 1112488 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	0.94		
ACENAPHTHENE	0.20	0.19 U	UG/L
ACENAPHTHYLENE	0.20	0.19 U	UG/L
ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) PYRENE	0.20	0.19 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.19 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.19 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.19 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.7 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.7 U	UG/L
INDENO (1, 2, 3 - CD) PYRENE	0.20	0.19 U	UG/L
CHRYSENE	0.20	0.19 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.19 U	UG/L
DIETHYLPHTHALATE	5.0	0.17 J	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4 - DIOXANE	2.0	0.17 J	UG/L
BIS (2 - ETHYLHEXYL) PHTHALATE	5.0	4.7 U	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLOROBENZENE	0.20	0.19 U	UG/L
2 - METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.056 JB	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.7 U	UG/L
PHENANTHRENE	0.20	0.028 J	UG/L
PYRENE	0.20	0.19 U	UG/L
PYRIDINE	2.0	1.9 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	117	%
NITROBENZENE-d5	(45 - 135 %)	94	%
2-FLUOROBIPHENYL	(45 - 135 %)	80	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS029.D
 Acq On : 1 Jul 2008 11:24 pm
 Sample : 1112488 0.94
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 23:51:03 2008

Vial: 19
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	90837	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	318064	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	148451	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	340262	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	296340	1.00	ppm	-0.01
33) d12-Perylene	0.00	264	0 ↓	0.00	ppm	-21.32

System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	340392	1.87	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	93.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	430329	1.59	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	79.50%
28) SURR6,TERPHENYL-D14	16.25	244	586678	2.34	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	117.00%

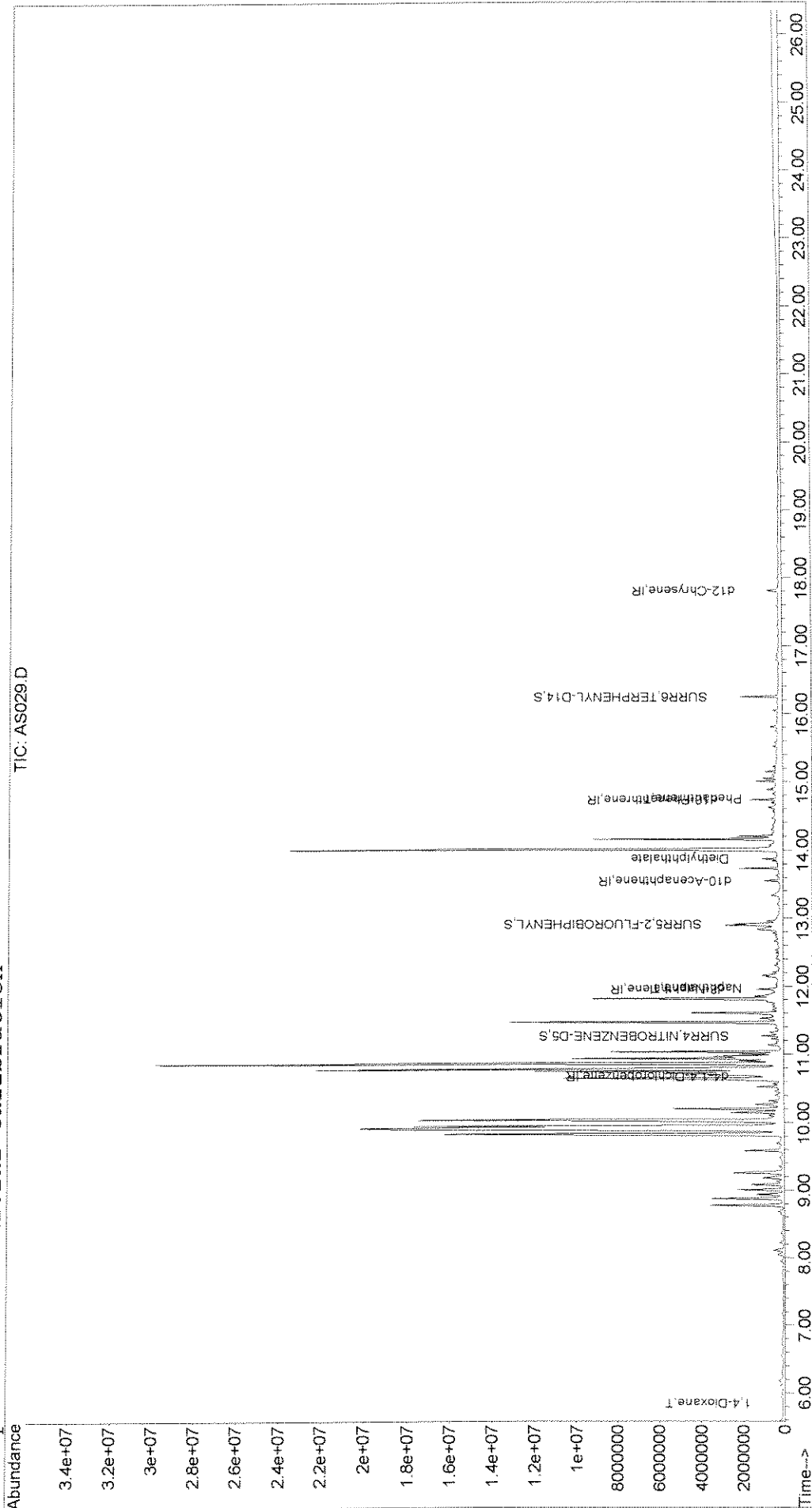
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.85	88	9412	0.18	ppm	77
7) Naphthalene	11.97	128	18862	0.06	ppm	85
17) Diethylphthalate	13.88	149	44194	0.18	ppm	96
20) Phenanthrene	14.76	178	9073	0.03	ppm	94

JW
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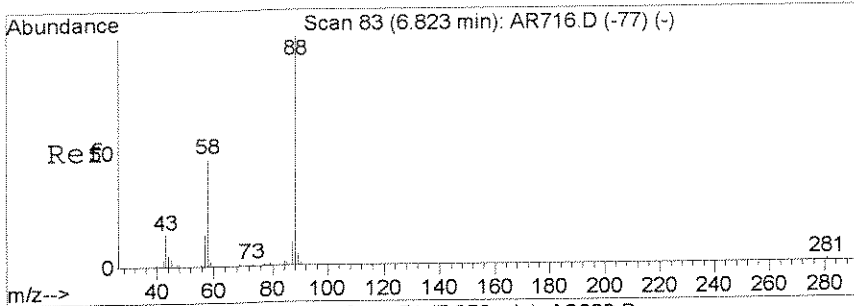
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS029.D Vial: 19
 Acq On : 1 Jul 2008 11:24 pm Operator: J.Wu
 Sample : 1112488 0.94 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 7:38 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

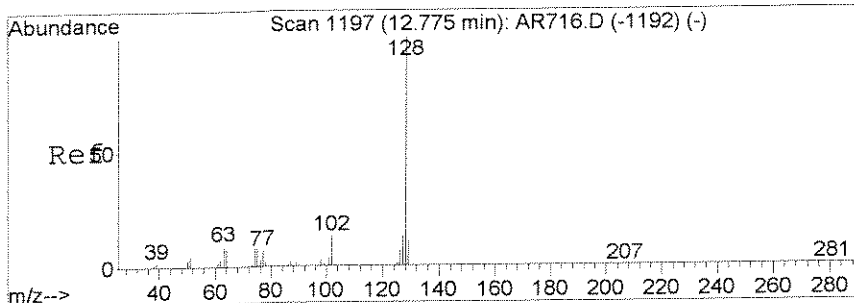
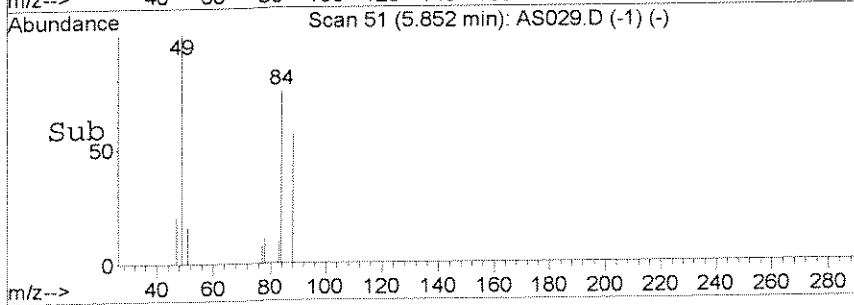
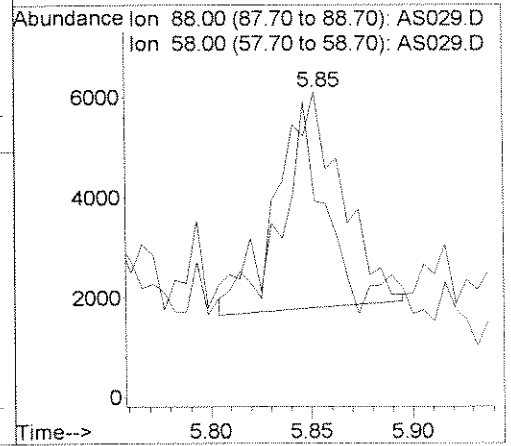
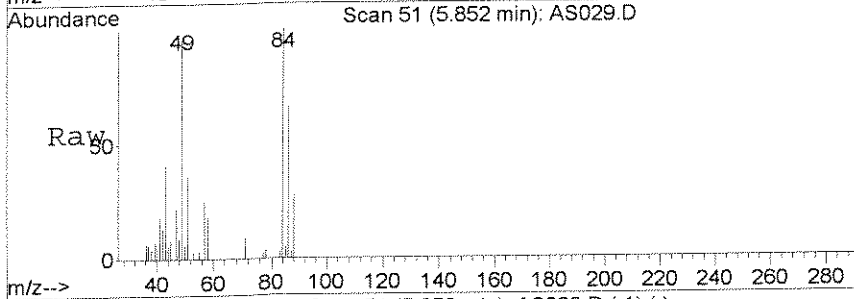


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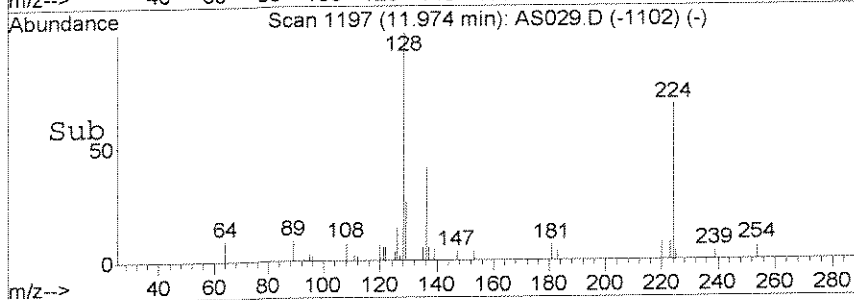
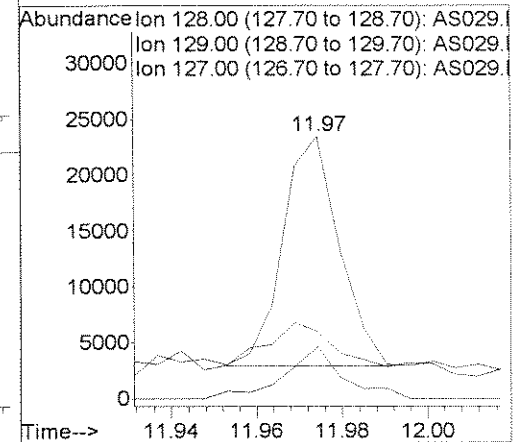
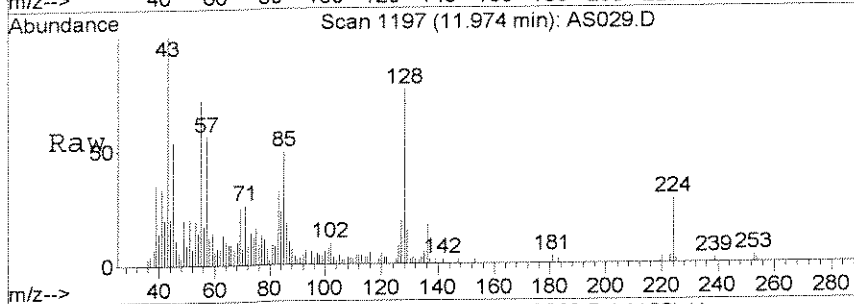
#2
 1,4-Dioxane
 Concen: 0.18 ppm
 RT: 5.85 min Scan# 51
 Delta R.T. 0.05 min
 Lab File: AS029.D
 Acq: 1 Jul 2008 11:24 pm

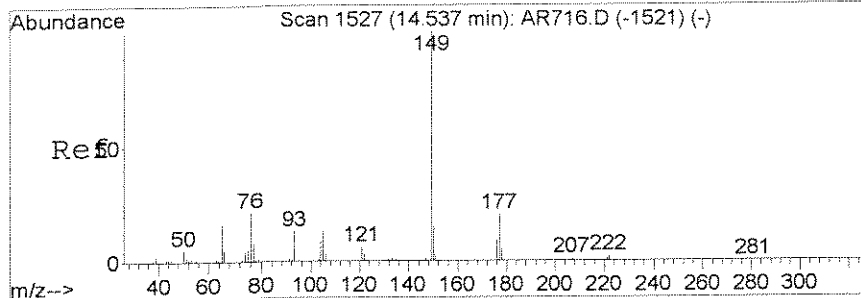
Tgt Ion	Resp	Lower	Upper
88	9412		
58	41.6	38.6	78.6



#7
 Naphthalene
 Concen: 0.06 ppm
 RT: 11.97 min Scan# 1197
 Delta R.T. 0.01 min
 Lab File: AS029.D
 Acq: 1 Jul 2008 11:24 pm

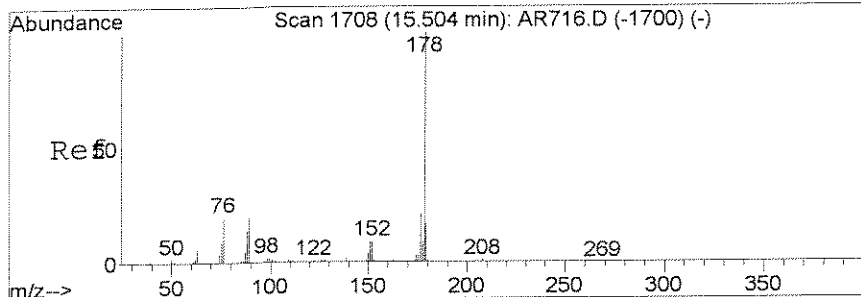
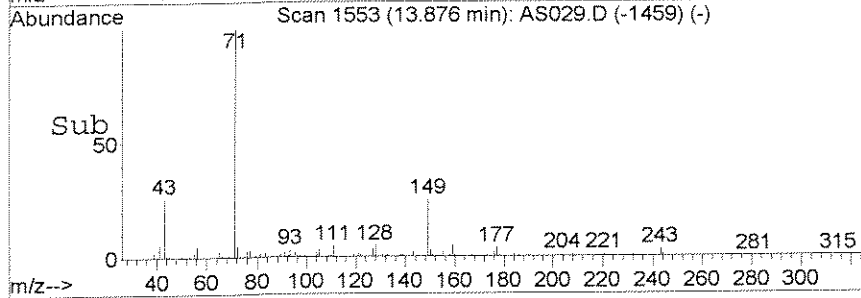
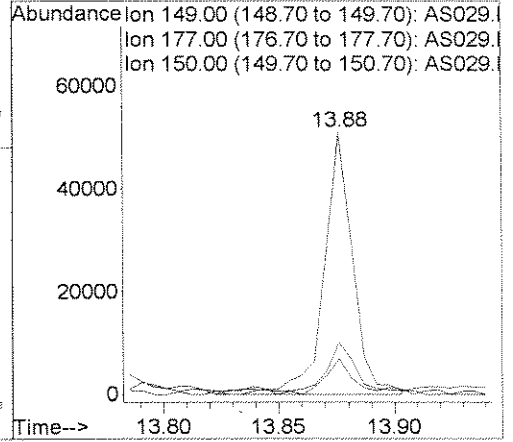
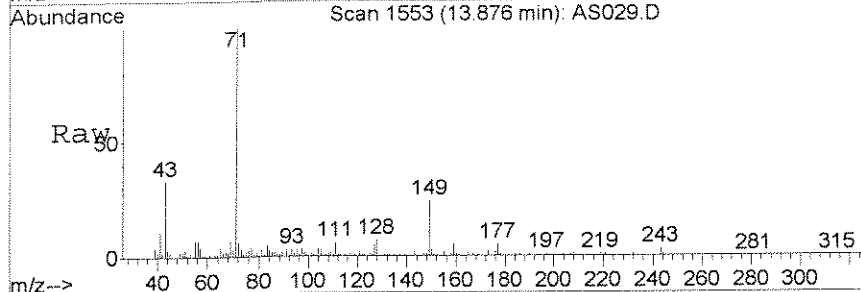
Tgt Ion	Resp	Lower	Upper
128	18862		
129	20.9	0.0	31.0
127	14.2	0.0	32.4





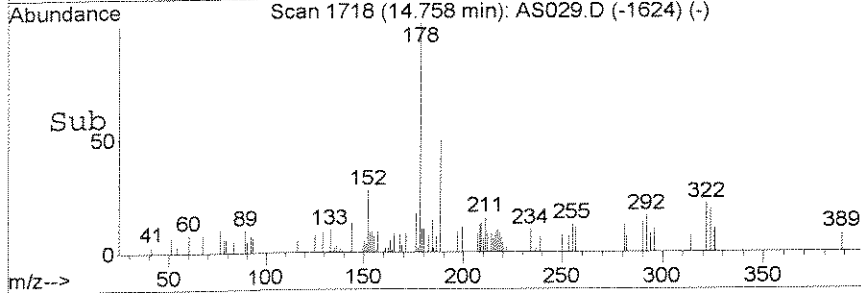
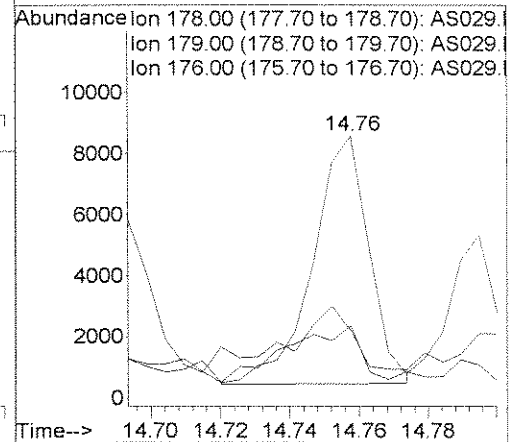
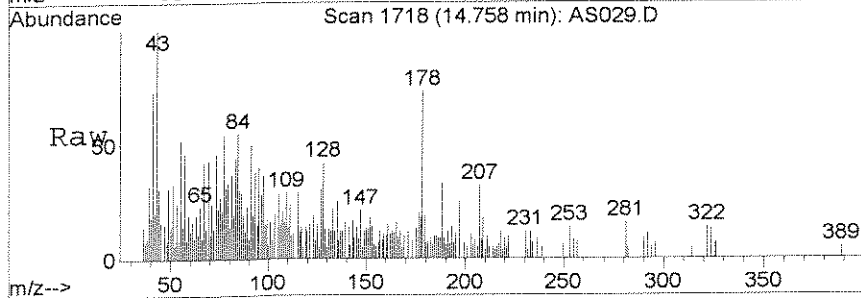
#17
 Diethylphthalate
 Concen: 0.18 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AS029.D
 Acq: 1 Jul 2008 11:24 pm

Tgt Ion	Resp	Lower	Upper
149	44194		
177	18.7	15.3	28.3
150	12.2	8.3	15.3



#20
 Phenanthrene
 Concen: 0.03 ppm
 RT: 14.76 min Scan# 1718
 Delta R.T. -0.00 min
 Lab File: AS029.D
 Acq: 1 Jul 2008 11:24 pm

Tgt Ion	Resp	Lower	Upper
178	9073		
179	11.5	0.0	35.2
176	21.3	0.0	39.3



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-23B

Date Sampled : 06/25/08 08:00 Order #: 1112488 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	0.94		
ACENAPHTHENE	0.20	0.19 U	UG/L
ACENAPHTHYLENE	0.20	0.19 U	UG/L
ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) PYRENE	0.20	0.19 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.19 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.19 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.19 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.7 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.7 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.19 U	UG/L
CHRYSENE	0.20	0.19 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.19 U	UG/L
DIETHYLPHTHALATE	5.0	0.20 J	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	0.24 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.7 U	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLOROBENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.066 JB	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.7 U	UG/L
PHENANTHRENE	0.20	0.19 U	UG/L
PYRENE	0.20	0.19 U	UG/L
PYRIDINE	2.0	1.9 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	124	%
NITROBENZENE-d5	(45 - 135 %)	94	%
2-FLUOROBIPHENYL	(45 - 135 %)	100	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070208\AS036.D Vial: 2
 Acq On : 2 Jul 2008 8:31 am Operator: J.Wu
 Sample : 1112488 0.94 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Re Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 08:58:18 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

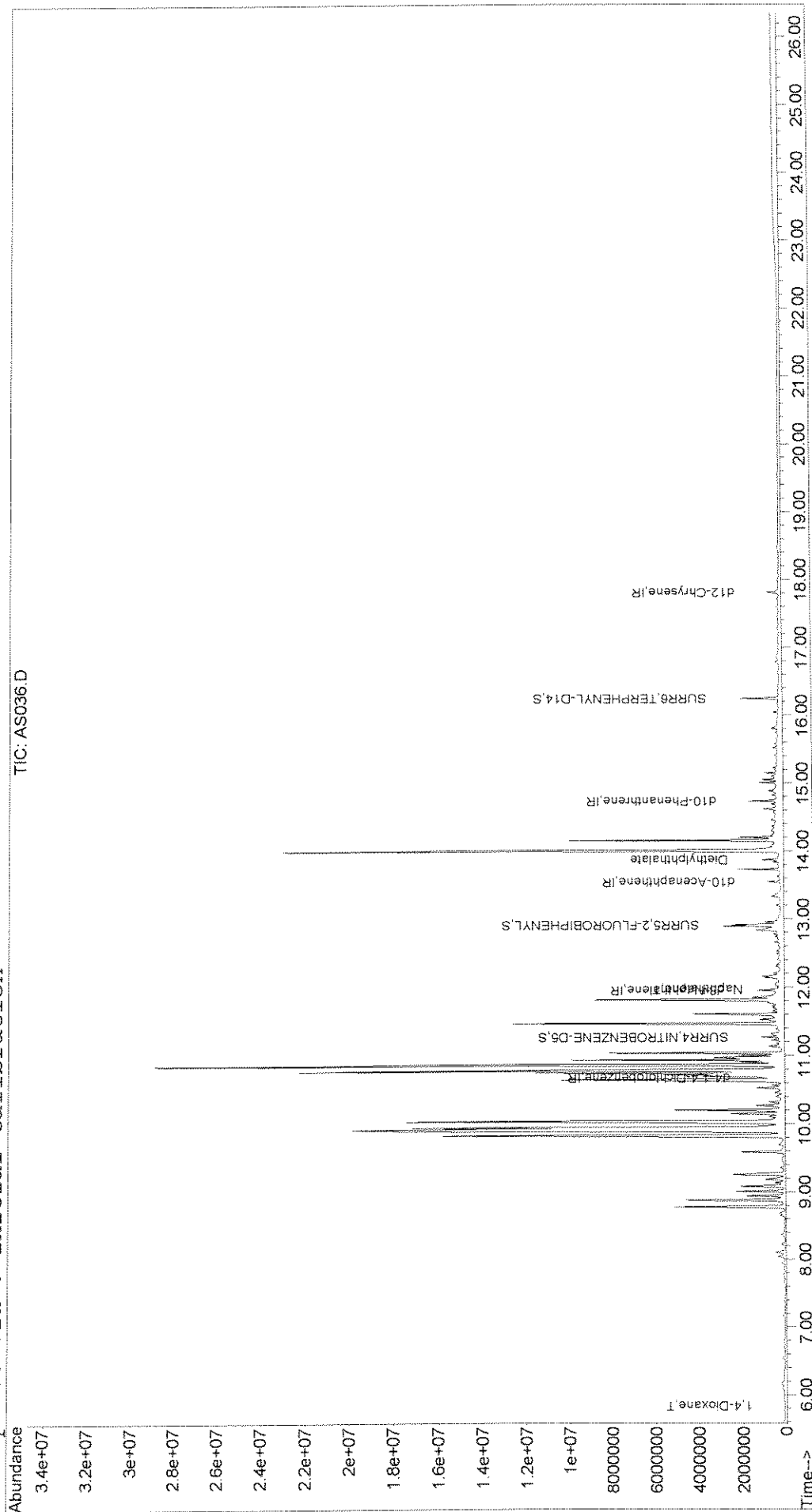
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	86720	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	321575	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	118325	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	339886	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	279068	1.00	ppm	0.00
33) d12-Perylene	0.00	264	0	0.00	ppm	-21.32
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	346511	1.88	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery	=	94.00%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	442525	1.99	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery	=	99.50%	
28) SURR6,TERPHENYL-D14	16.25	244	584266	2.47	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery	=	123.50%	
Target Compounds						
2) 1,4-Dioxane	5.84	88	12351m J	0.25	ppm	
7) Naphthalene	11.97	128	22598	0.07	ppm	89
17) Diethylphthalate	13.88	149	41443	0.21	ppm	99

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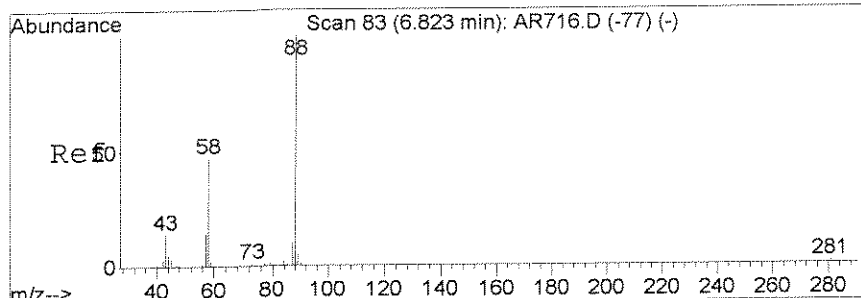
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS036.D Vial: 2
 Acq On : 2 Jul 2008 8:31 am Operator: J.Wu
 Sample : 1112488 0.94 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Re Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 9:23 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

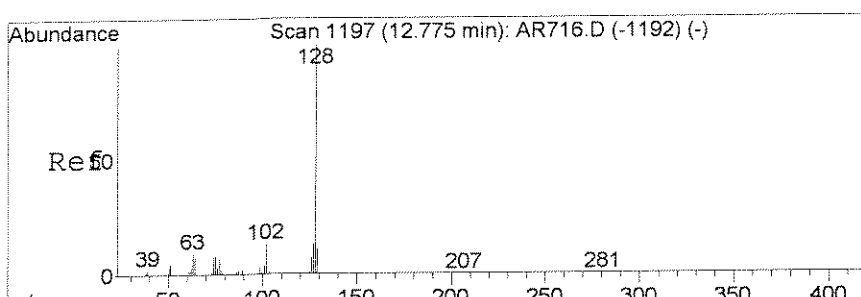
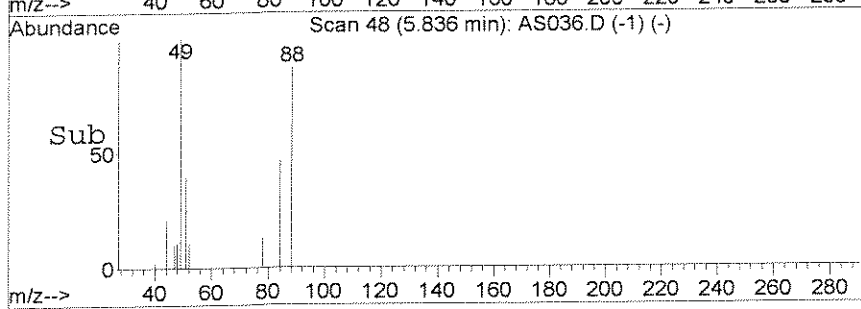
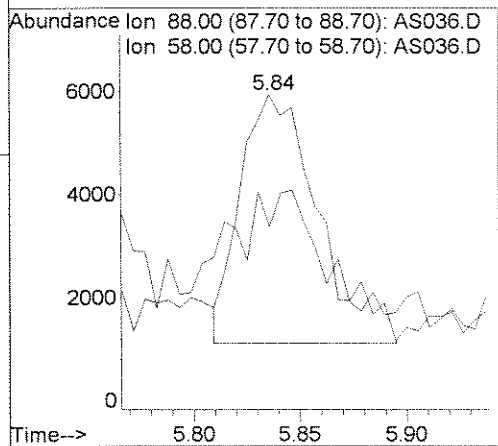
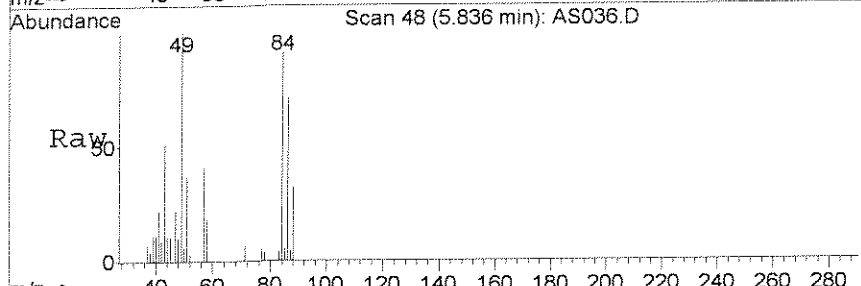


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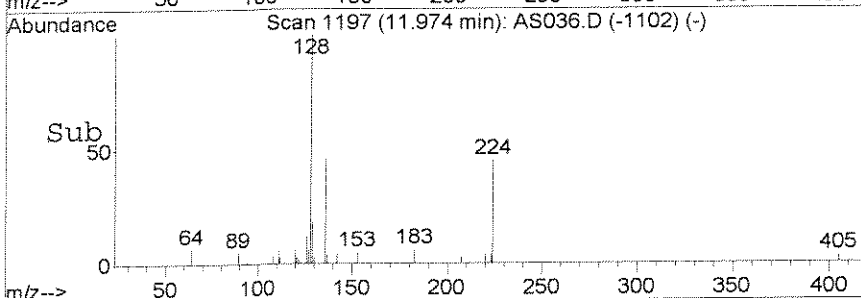
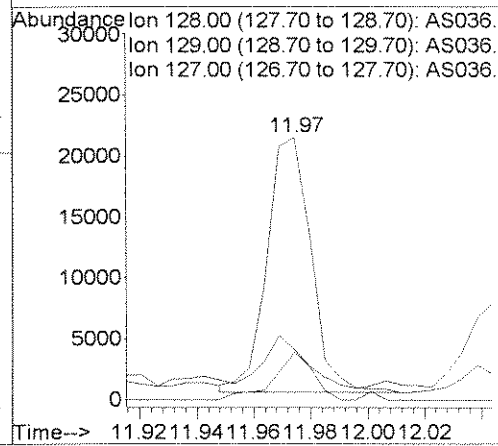
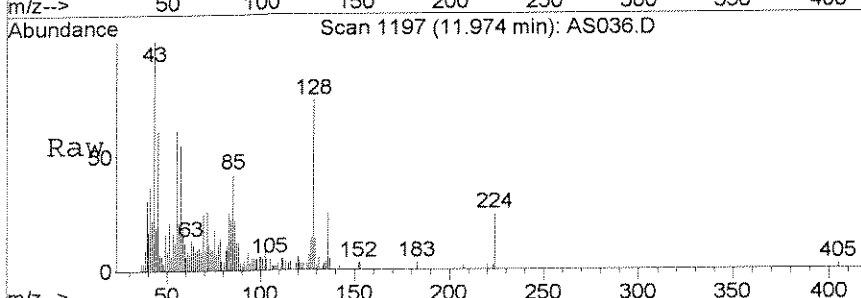
#2
 1,4-Dioxane
 Concen: 0.25 ppm m
 RT: 5.84 min Scan# 48
 Delta R.T. 0.03 min
 Lab File: AS036.D
 Acq: 2 Jul 2008 8:31 am

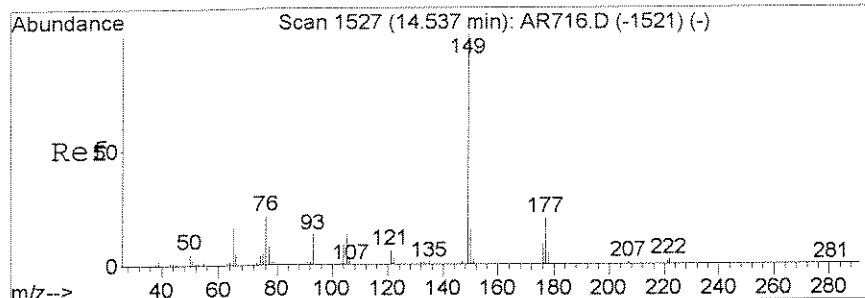
Tgt Ion	Resp	Lower	Upper
88	12351		
58	56.9	38.6	78.6



#7
 Naphthalene
 Concen: 0.07 ppm
 RT: 11.97 min Scan# 1197
 Delta R.T. 0.01 min
 Lab File: AS036.D
 Acq: 2 Jul 2008 8:31 am

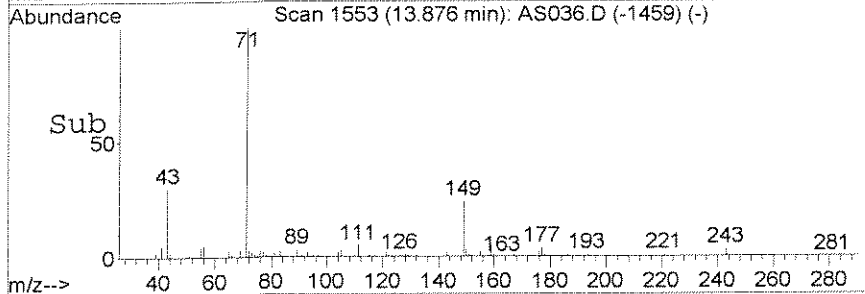
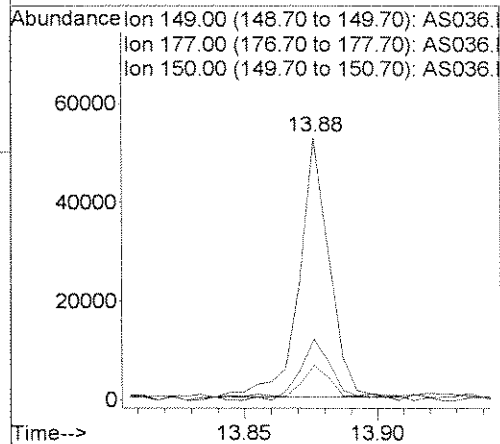
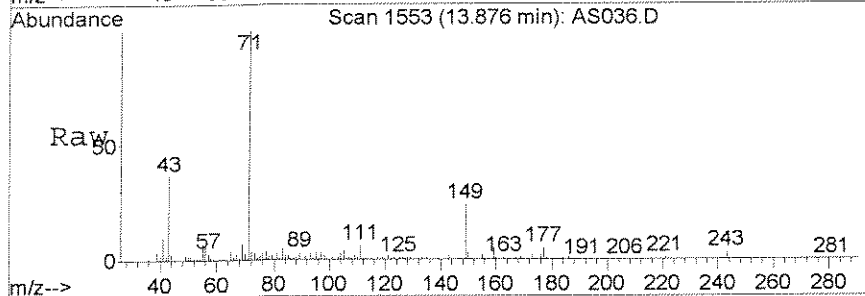
Tgt Ion	Resp	Lower	Upper
128	22598		
129	19.0	0.0	31.0
127	13.0	0.0	32.4





#17
 Diethylphthalate
 Concen: 0.21 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AS036.D
 Acq: 2 Jul 2008 8:31 am

Tgt Ion	Ratio	Lower	Upper
149	100		
177	22.0	15.3	28.3
150	12.9	8.3	15.3



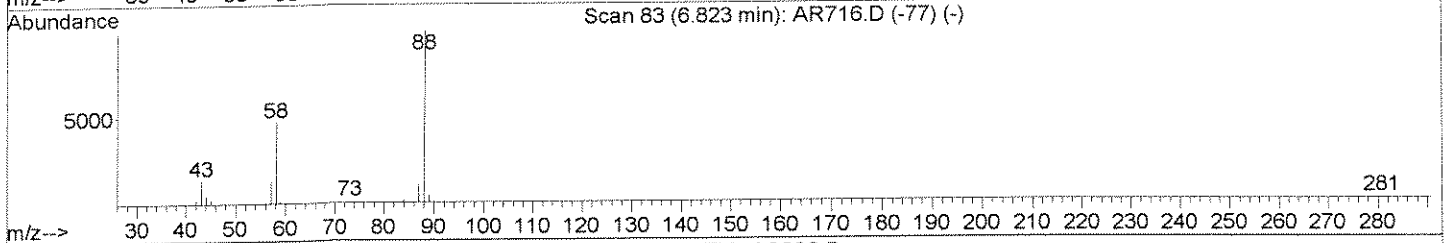
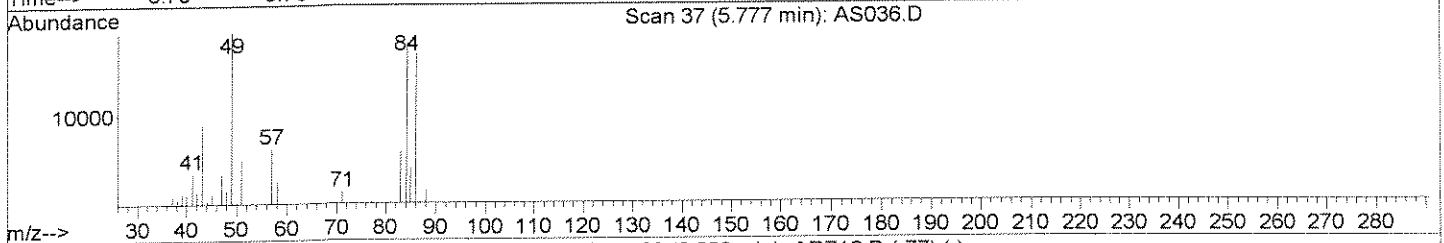
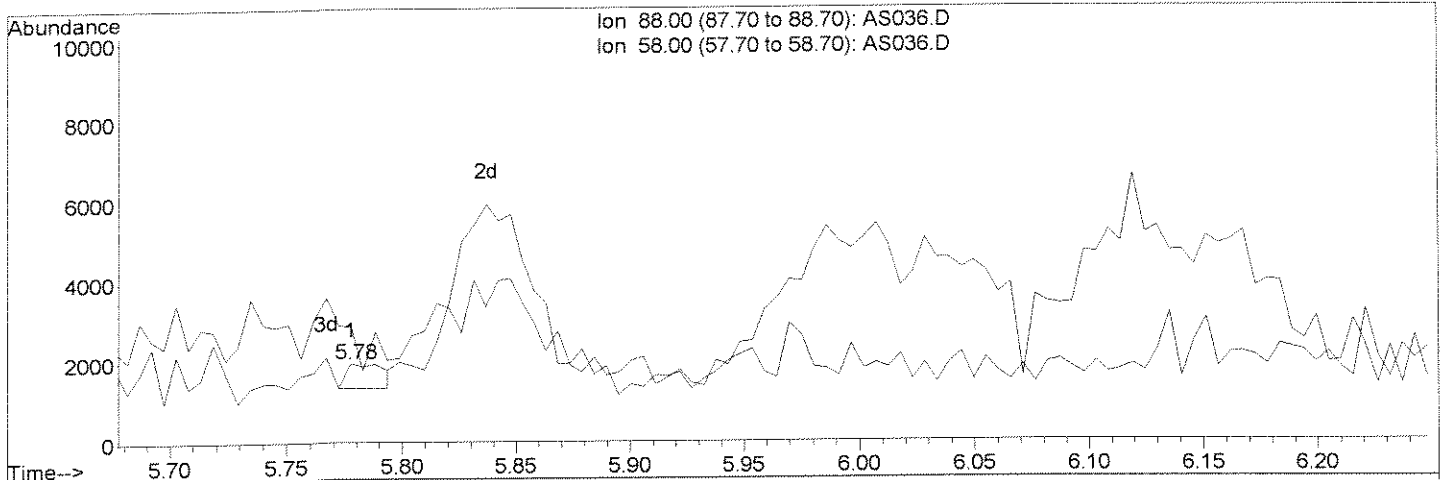
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS036.D
 Acq On : 2 Jul 2008 8:31 am
 Sample : 1112488 0.94
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Re
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 9:21 2008

Vial: 2
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)

5.78min 0.01ppm

response 709

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	104.48#
0.00	0.00	0.00
0.00	0.00	0.00

B

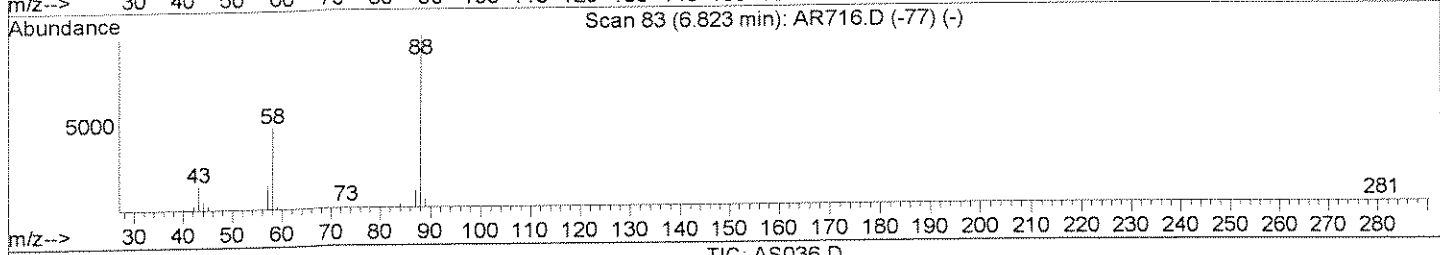
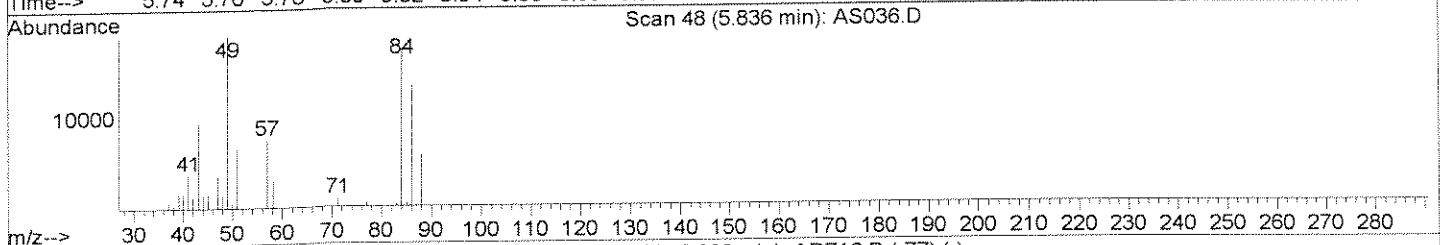
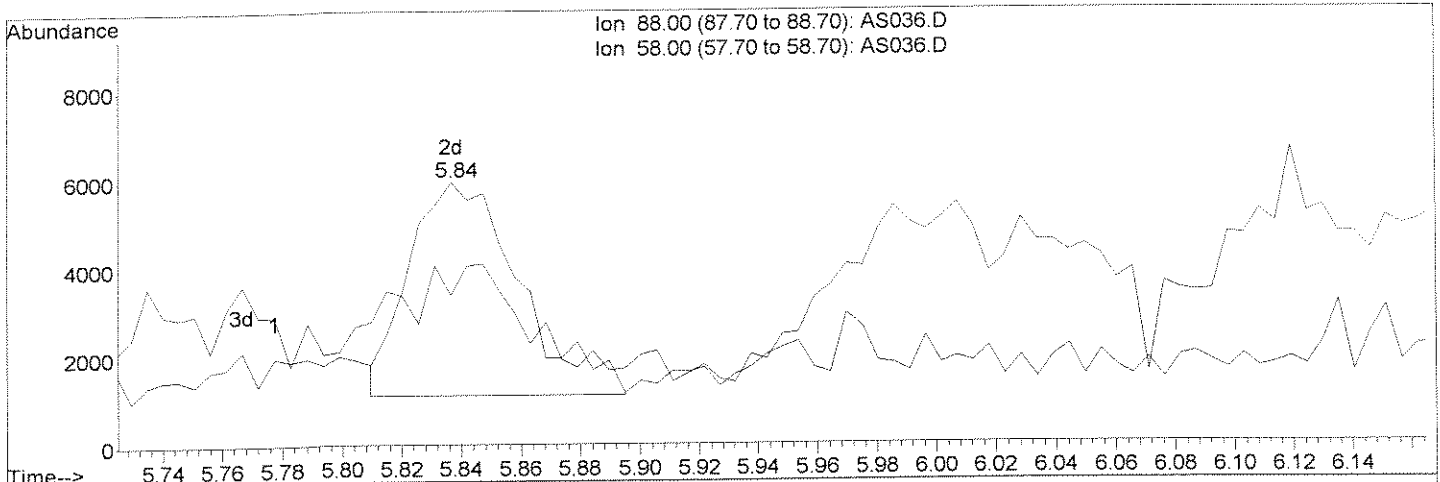
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS036.D
 Acq On : 2 Jul 2008 8:31 am
 Sample : 1112488 0.94
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Re
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 9:23 2008

Vial: 2
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)
 5.84min 0.25ppm m
 response 12351

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	56.87
0.00	0.00	0.00
0.00	0.00	0.00

AJU 7/2/08

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COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-97B

Date Sampled : 06/25/08 09:30 Order #: 1112489 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	0.96		
ACENAPHTHENE	0.20	0.19 U	UG/L
ACENAPHTHYLENE	0.20	0.19 U	UG/L
ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) PYRENE	0.20	0.19 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.19 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.19 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.19 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.8 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	1.5 J	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.19 U	UG/L
CHRYSENE	0.20	0.19 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.19 U	UG/L
DIETHYLPHTHALATE	5.0	0.20 J	UG/L
DIMETHYL PHTHALATE	5.0	4.8 U	UG/L
1, 4-DIOXANE	2.0	1.5 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.8 U	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLOROBENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.067 JB	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.8 U	UG/L
PHENANTHRENE	0.20	0.19 U	UG/L
PYRENE	0.20	0.19 U	UG/L
PYRIDINE	2.0	1.9 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	105	%
NITROBENZENE-d5	(45 - 135 %)	81	%
2-FLUOROBIPHENYL	(45 - 135 %)	78	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070208\AS040.D
 Acq On : 2 Jul 2008 10:54 am
 Sample : 1112489 0.96
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 11:20:54 2008

Vial: 6
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	67386	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	263902	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	118961	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	292969	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	261048	1.00	ppm	0.00
33) d12-Perylene	21.31	264	170271	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	245134	1.62	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	81.00%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	333066	1.55	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	77.50%
28) SURR6,TERPHENYL-D14	16.25	244	461749	2.09	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	104.50%

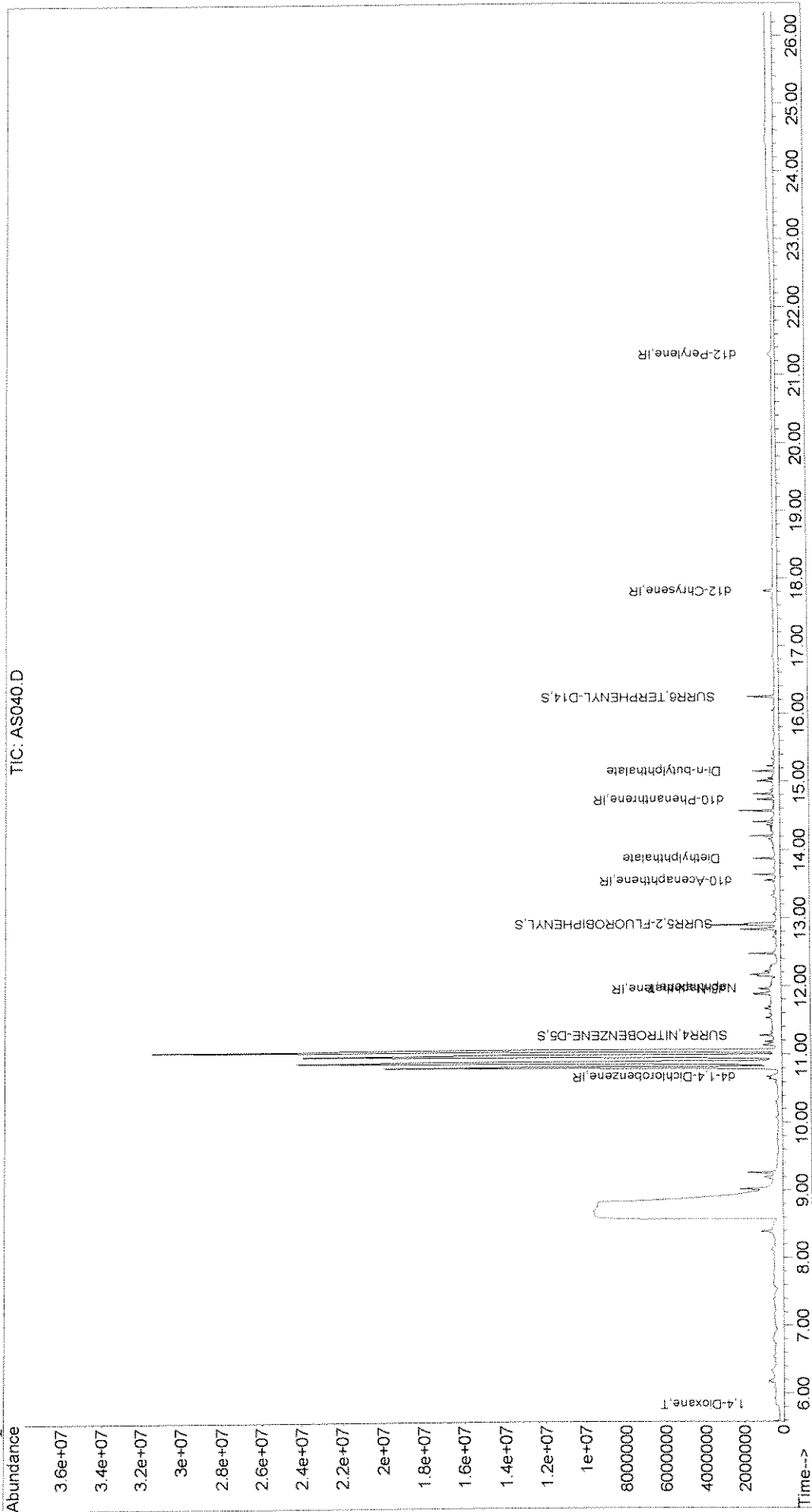
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	61766	1.60	ppm	89
7) Naphthalene	11.97	128	18037	0.07	ppm	80
17) Diethylphthalate	13.88	149	41040	0.21	ppm	98
24) Di-n-butylphthalate	15.15	149	507837	1.61	ppm	99

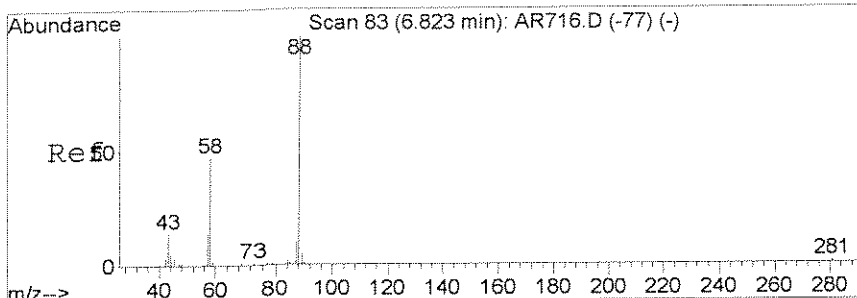
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS040.D Vial: 6
 Acq On : 2 Jul 2008 10:54 am Operator: J.Wu
 Sample : 1112489 0.96 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 8:23 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

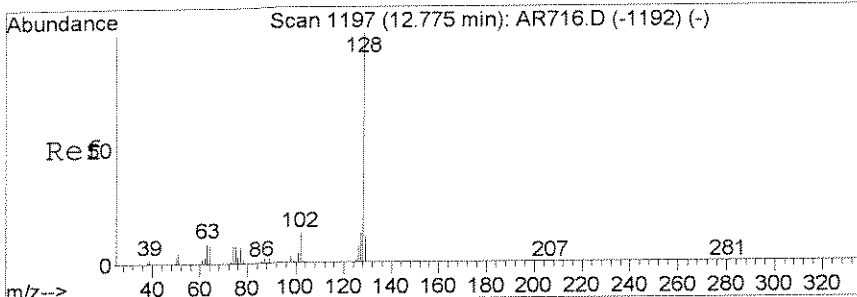
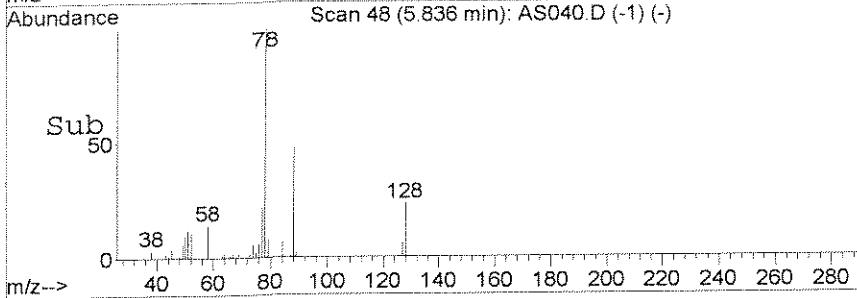
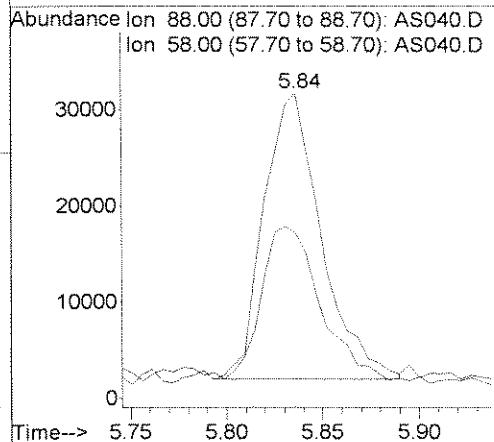
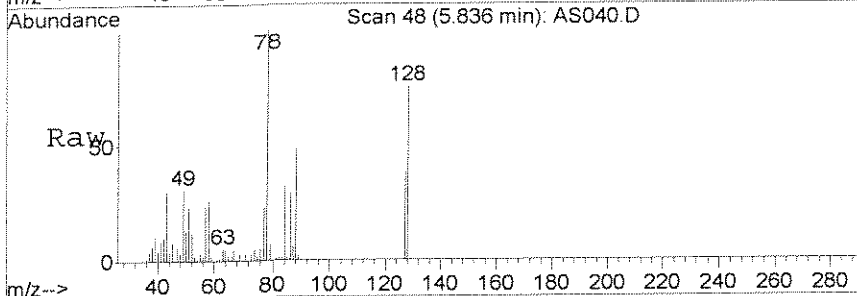


00769



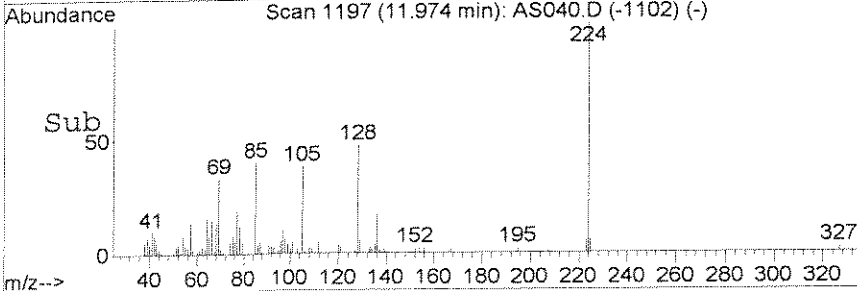
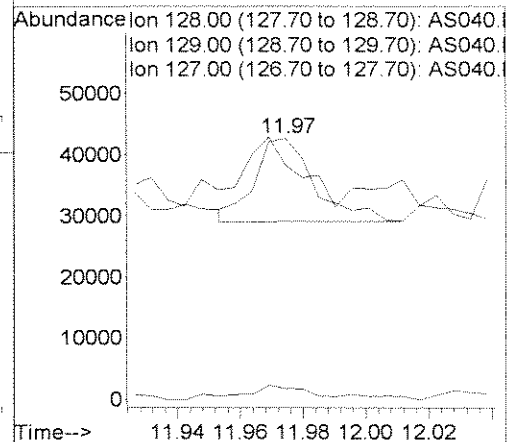
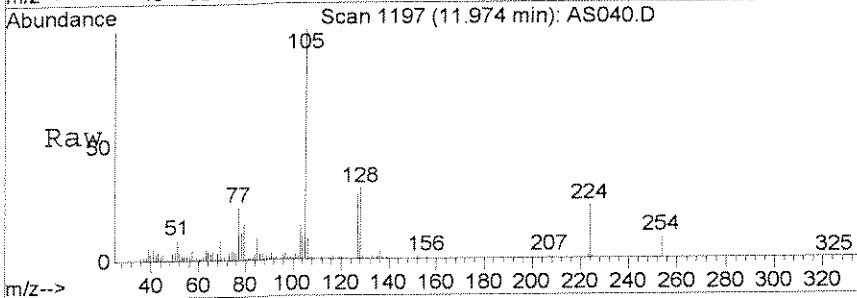
#2
 1,4-Dioxane
 Concen: 1.60 ppm
 RT: 5.84 min Scan# 48
 Delta R.T. 0.03 min
 Lab File: AS040.D
 Acq: 2 Jul 2008 10:54 am

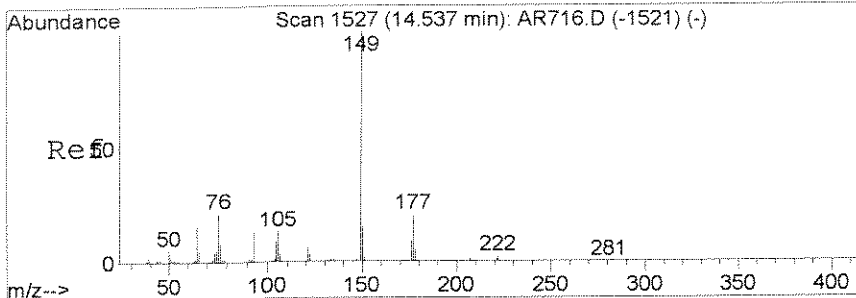
Tgt Ion	Resp	Lower	Upper
88	61766		
58	50.2	38.6	78.6



#7
 Naphthalene
 Concen: 0.07 ppm
 RT: 11.97 min Scan# 1197
 Delta R.T. 0.01 min
 Lab File: AS040.D
 Acq: 2 Jul 2008 10:54 am

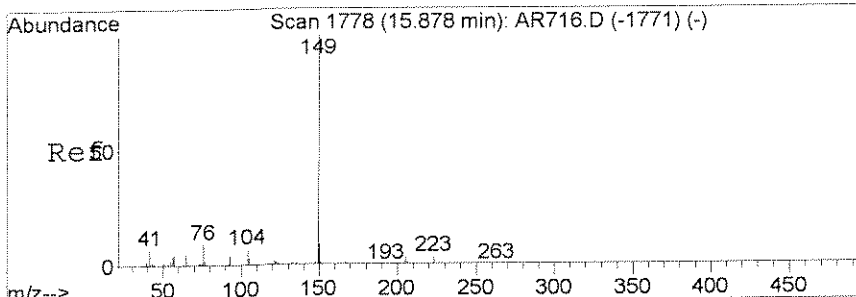
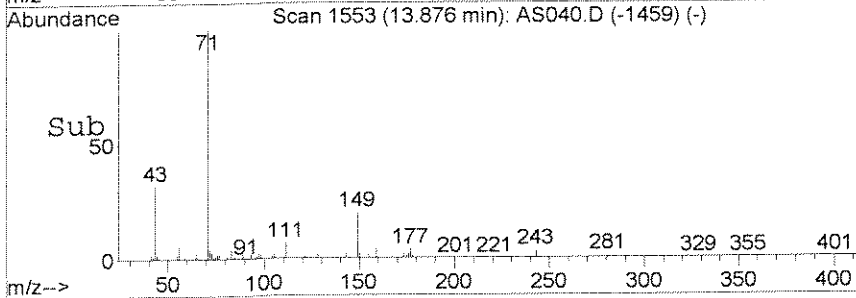
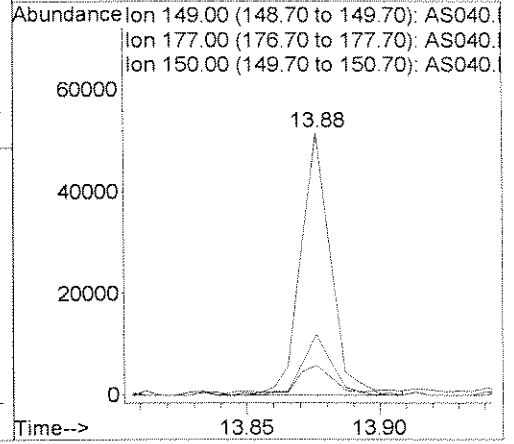
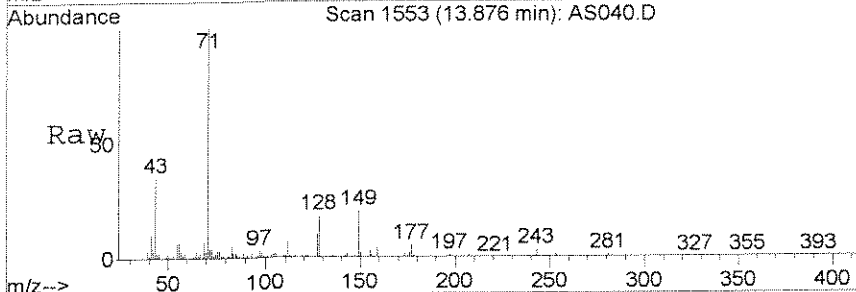
Tgt Ion	Resp	Lower	Upper
128	18037		
129	9.5	0.0	31.0
127	25.7	0.0	32.4





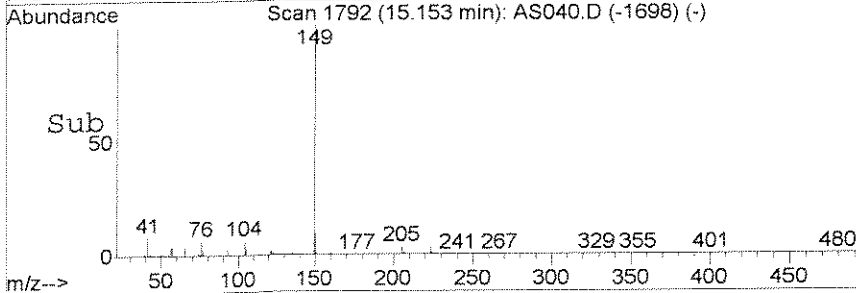
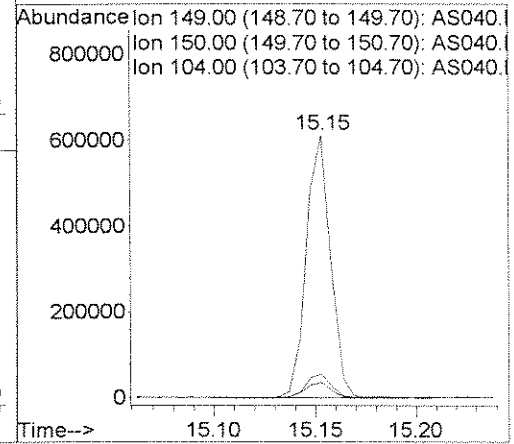
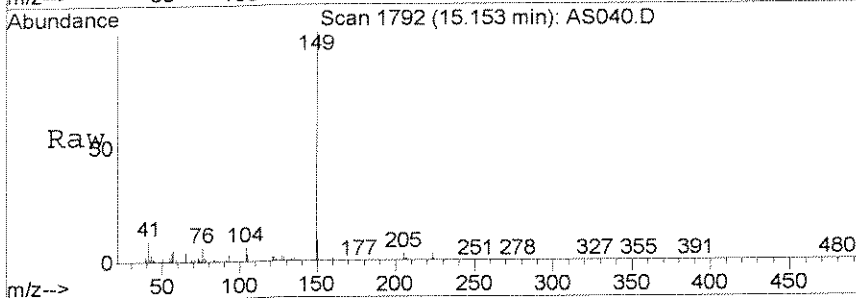
#17
 Diethylphthalate
 Concen: 0.21 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AS040.D
 Acq: 2 Jul 2008 10:54 am

Tgt Ion	Resp	Lower	Upper
149	41040		
177	22.8	15.3	28.3
150	11.4	8.3	15.3



#24
 Di-n-butylphthalate
 Concen: 1.61 ppm
 RT: 15.15 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: AS040.D
 Acq: 2 Jul 2008 10:54 am

Tgt Ion	Resp	Lower	Upper
149	507837		
150	9.0	6.4	12.0
104	5.7	4.4	8.2



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
 Client Sample ID : MC-94B

Date Sampled : 06/25/08 14:31 Order #: 1112809 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/30/08			
DATE ANALYZED : 07/02/08			
ANALYTICAL DILUTION: 1.41			
ACENAPHTHENE	0.20	0.28 U	UG/L
ACENAPHTHYLENE	0.20	0.28 U	UG/L
ANTHRACENE	0.20	0.28 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.28 U	UG/L
BENZO (A) PYRENE	0.20	0.28 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.28 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.28 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.28 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	7.1 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	7.1 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.28 U	UG/L
CHRYSENE	0.20	0.28 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.28 U	UG/L
DIETHYLPHTHALATE	5.0	7.1 U	UG/L
DIMETHYL PHTHALATE	5.0	7.1 U	UG/L
1, 4-DIOXANE	2.0	1.6 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	0.75 JB	UG/L
FLUORANTHENE	0.20	0.28 U	UG/L
FLUORENE	0.20	0.28 U	UG/L
HEXACHLORO BENZENE	0.20	0.28 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.28 U	UG/L
NAPHTHALENE	0.20	0.070 JB	UG/L
NITROBENZENE	0.20	0.28 U	UG/L
OCTACHLOROSTYRENE	0.20	0.28 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	7.1 U	UG/L
PHENANTHRENE	0.20	0.28 U	UG/L
PYRENE	0.20	0.28 U	UG/L
PYRIDINE	2.0	2.8 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	106	%
NITROBENZENE-d5	(45 - 135 %)	76	%
2-FLUOROBIPHENYL	(45 - 135 %)	69	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070208\AS043.D
 Acq On : 2 Jul 2008 12:40 pm
 Sample : 1112809 1.41
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 13:07:08 2008

Vial: 9
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

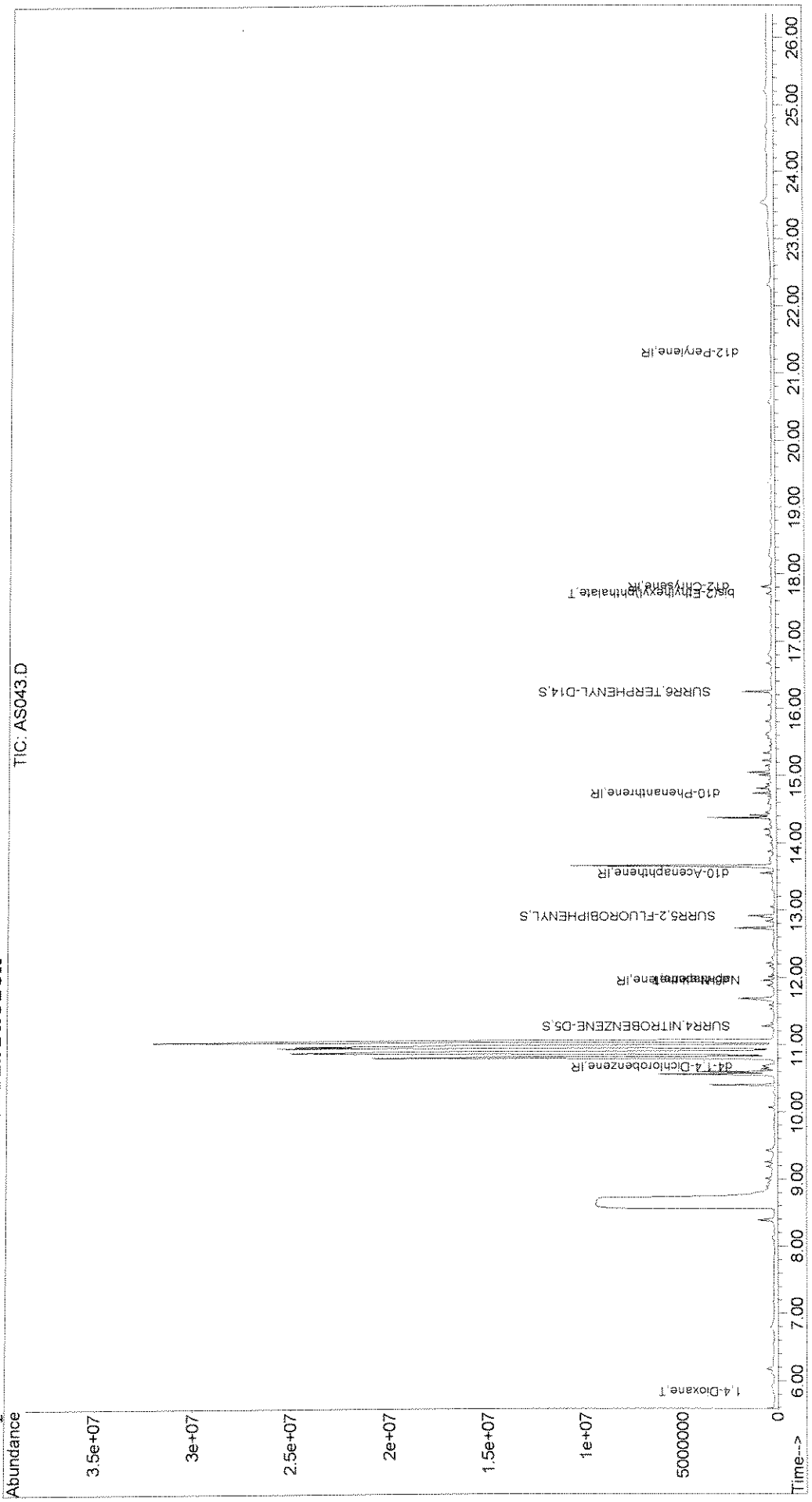
Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

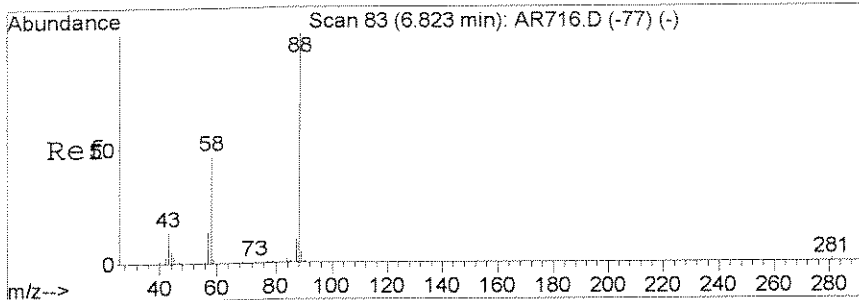
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	74664	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	266494	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	139124	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	320193	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	278739	1.00	ppm	-0.01
33) d12-Perylene	21.31	264	<u>46528</u> ↓	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4, NITROBENZENE-D5	11.27	82	229814	1.51	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	75.50%
11) SURR5, 2-FLUOROBIPHENYL	12.91	172	341276	1.38	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	69.00%
28) SURR6, TERPHENYL-D14	16.25	244	498686	2.11	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	105.50%
Target Compounds						
2) 1,4-Dioxane	5.83	88	46985	1.10	ppm	83
7) Naphthalene	11.97	128	13101	0.05	ppm	81
30) bis(2-Ethylhexyl)phthalate	17.71	149	106406	0.53	ppm	97

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS043.D
Acq On : 2 Jul 2008 12:40 pm Vial: 9
Sample : 1112809 1.41 Operator: J.Wu
Misc : 06/30/2008 1.0 ENSR 8270.NEVA Inst : 5973C
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: Jul 3 8:30 2008 Quant Results File: LVI0626.RES

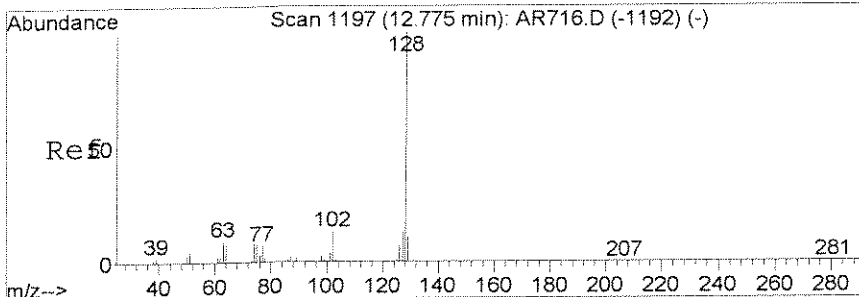
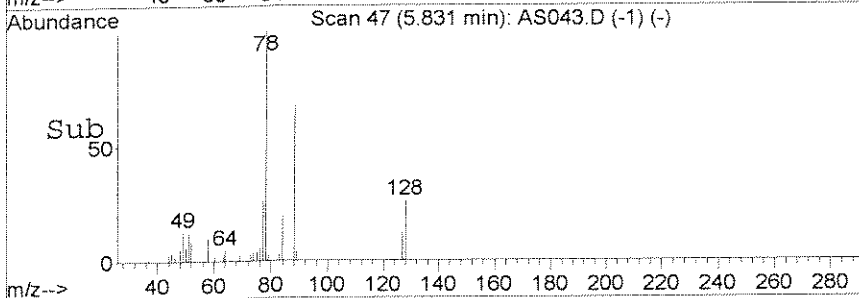
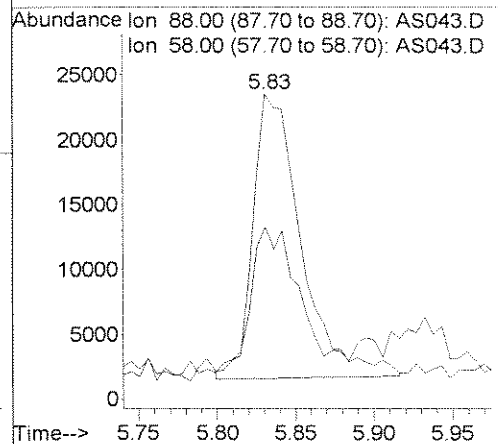
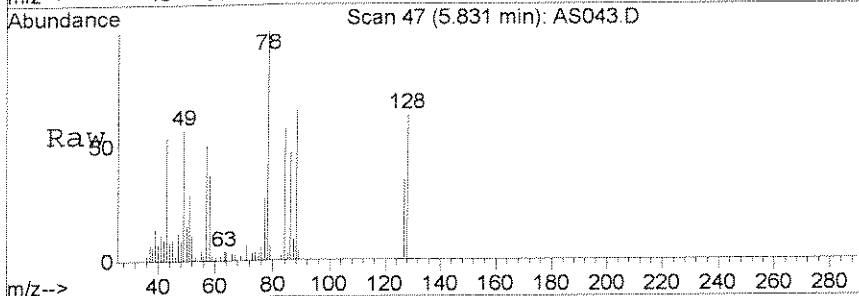
Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration





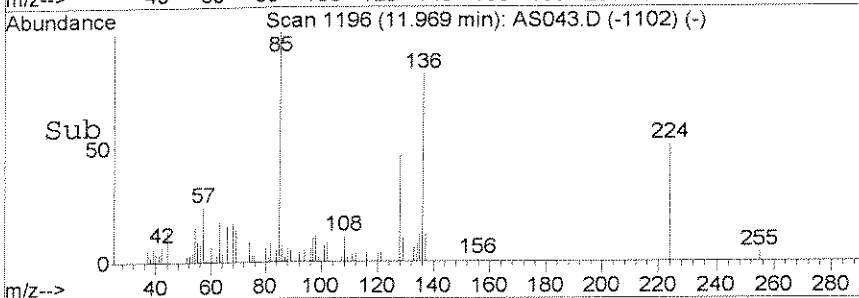
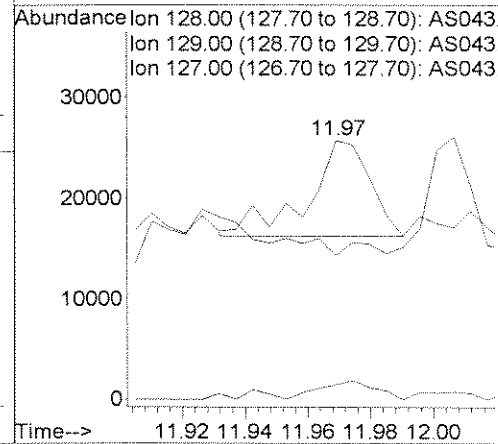
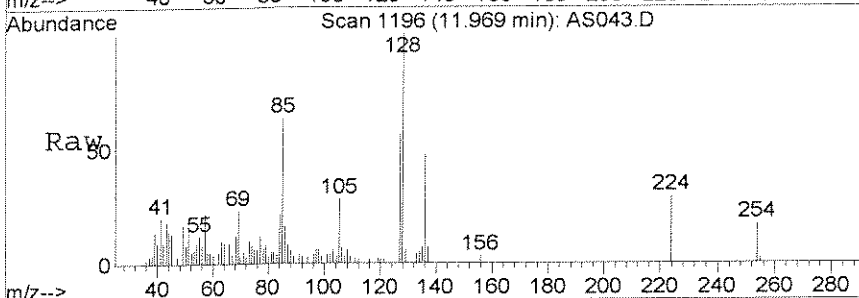
#2
 1,4-Dioxane
 Concen: 1.10 ppm
 RT: 5.83 min Scan# 47
 Delta R.T. 0.03 min
 Lab File: AS043.D
 Acq: 2 Jul 2008 12:40 pm

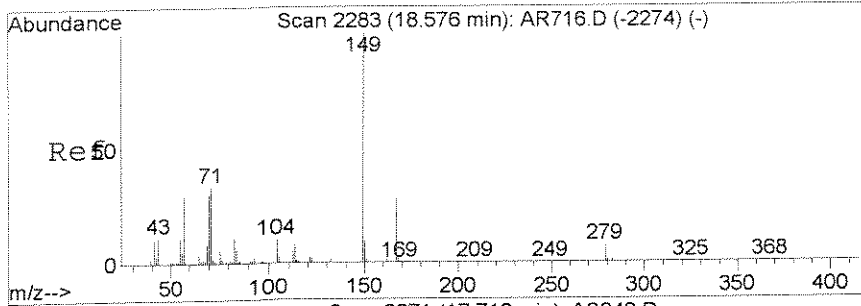
Tgt Ion	Resp	Lower	Upper
88	46985		
58	46.2	38.6	78.6



#7
 Naphthalene
 Concen: 0.05 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: AS043.D
 Acq: 2 Jul 2008 12:40 pm

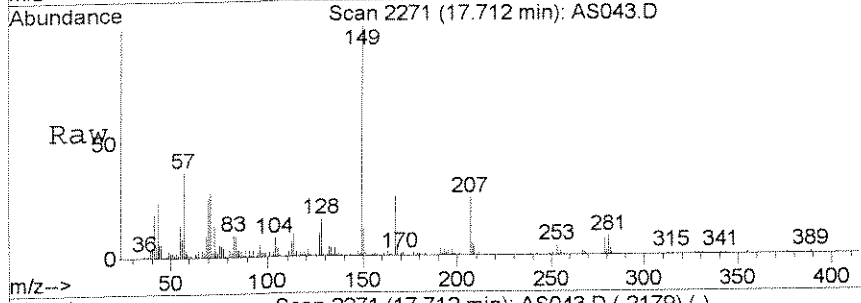
Tgt Ion	Resp	Lower	Upper
128	13101		
129	12.9	0.0	31.0
127	0.0	0.0	32.4



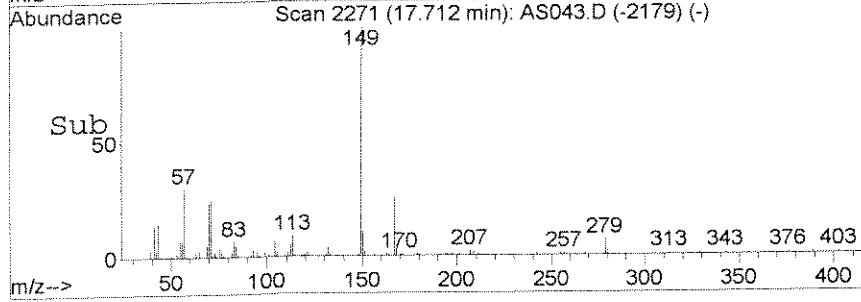
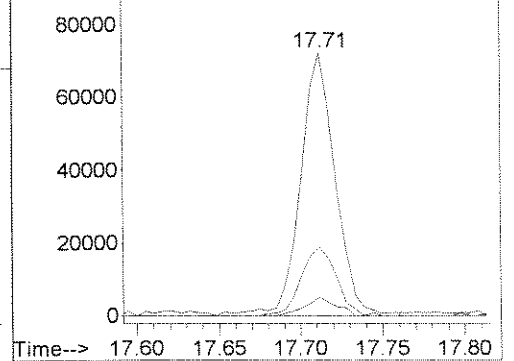


#30
 bis(2-Ethylhexyl)phthalate
 Concen: 0.53 ppm
 RT: 17.71 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: AS043.D
 Acq: 2 Jul 2008 12:40 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.1	22.5	33.7
279	7.2	5.5	8.3



Abundance Ion 149.00 (148.70 to 149.70): AS043.D
 Ion 167.00 (166.70 to 167.70): AS043.D
 Ion 279.00 (278.70 to 279.70): AS043.D



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
 Client Sample ID : MC-94B

Date Sampled : 06/25/08 14:31 Order #: 1112809 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/30/08			
DATE ANALYZED : 07/02/08			
ANALYTICAL DILUTION: 1.41			
ACENAPHTHENE	0.20	0.28 U	UG/L
ACENAPHTHYLENE	0.20	0.28 U	UG/L
ANTHRACENE	0.20	0.28 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.28 U	UG/L
BENZO (A) PYRENE	0.20	0.28 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.28 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.28 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.28 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	7.1 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	7.1 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.28 U	UG/L
CHRYSENE	0.20	0.28 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.28 U	UG/L
DIETHYLPHTHALATE	5.0	7.1 U	UG/L
DIMETHYL PHTHALATE	5.0	7.1 U	UG/L
1, 4-DIOXANE	2.0	1.3 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	0.75 JB	UG/L
FLUORANTHENE	0.20	0.28 U	UG/L
FLUORENE	0.20	0.28 U	UG/L
HEXACHLOROBENZENE	0.20	0.28 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.28 U	UG/L
NAPHTHALENE	0.20	0.070 JB	UG/L
NITROBENZENE	0.20	0.28 U	UG/L
OCTACHLOROSTYRENE	0.20	0.28 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	7.1 U	UG/L
PHENANTHRENE	0.20	0.28 U	UG/L
PYRENE	0.20	0.28 U	UG/L
PYRIDINE	2.0	2.8 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	105	%
NITROBENZENE-d5	(45 - 135 %)	73	%
2-FLUOROBIPHENYL	(45 - 135 %)	72	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070208\AS054.D
 Acq On : 2 Jul 2008 7:13 pm
 Sample : 1112809 1.41
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Re
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 19:39:39 2008

Vial: 20
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	70557	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	256786	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	125211	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	300968	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	262416	1.00	ppm	-0.01
33) d12-Perylene	21.30	264	27916	1.00	ppm	-0.02

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	213362	1.45	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	72.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	319468	1.43	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	71.50%
28) SURR6,TERPHENYL-D14	16.25	244	465226	2.09	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	104.50%

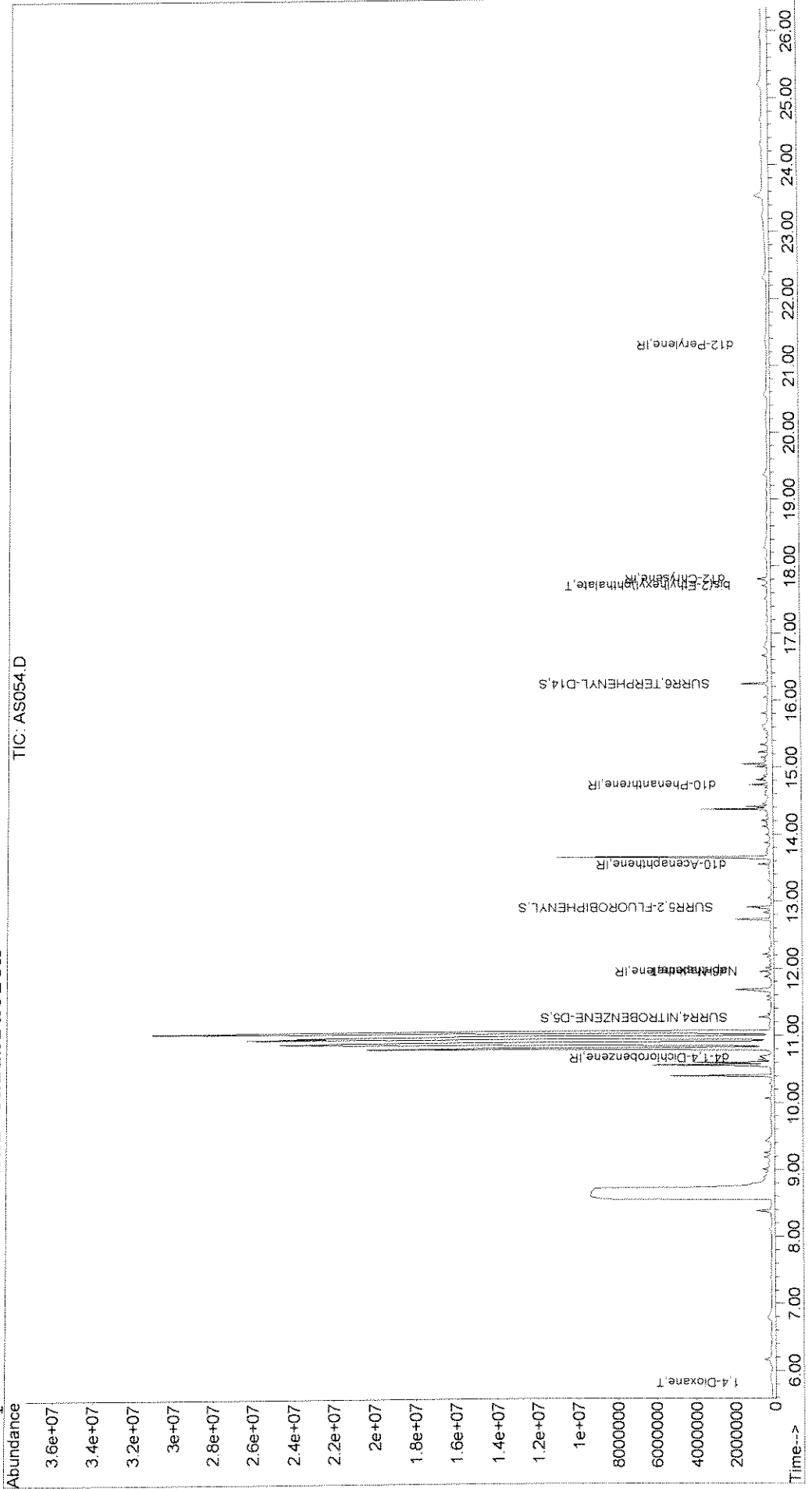
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.82	88	38604	0.95	ppm	94
7) Naphthalene	11.97	128	13678	0.05	ppm	83
30) bis(2-Ethylhexyl)phthalate	17.71	149	100171	0.53	ppm	99

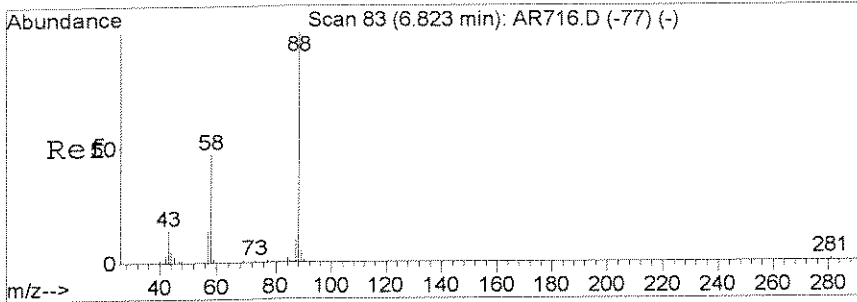
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS054.D Vial: 20
 Acq On : 2 Jul 2008 7:13 pm Operator: J.Wu
 Sample : 1112809 1.41 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Re Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 9:20 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

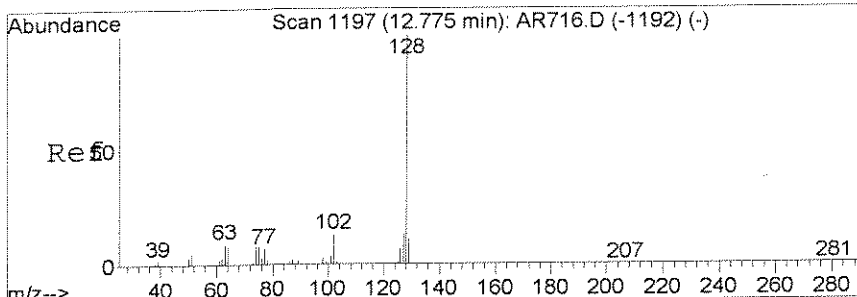
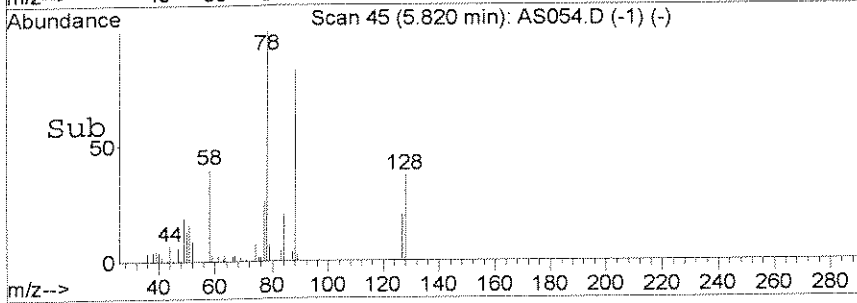
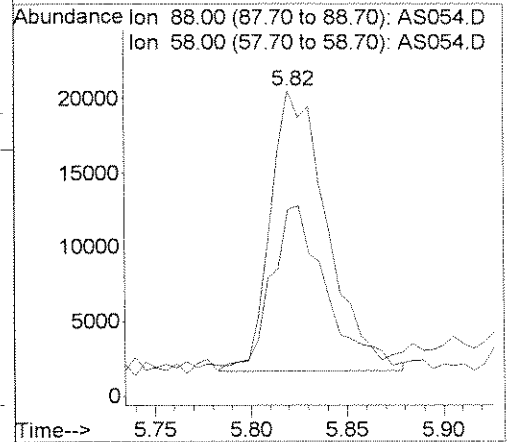
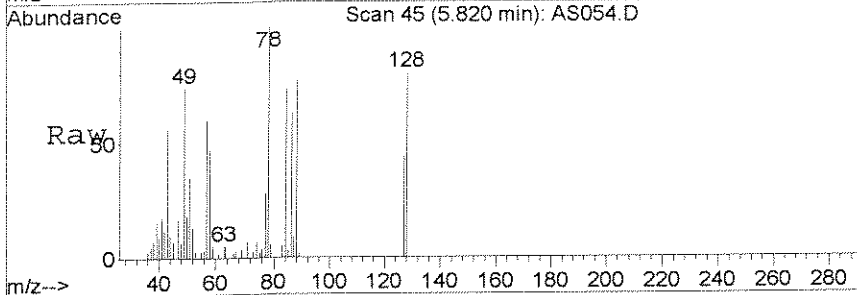


00779



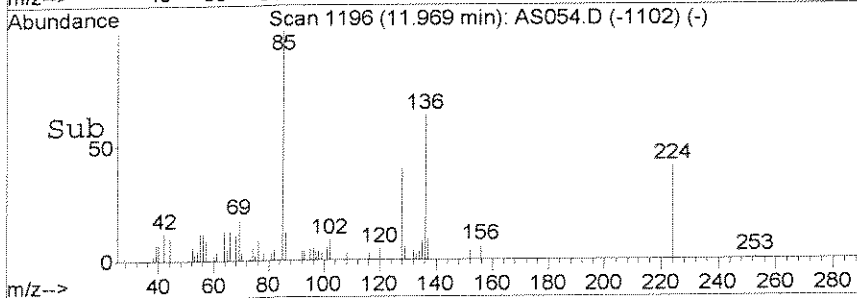
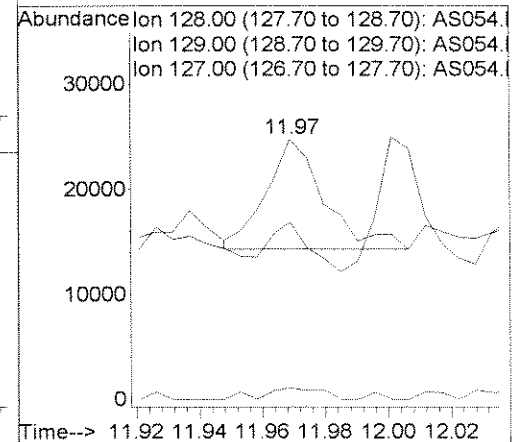
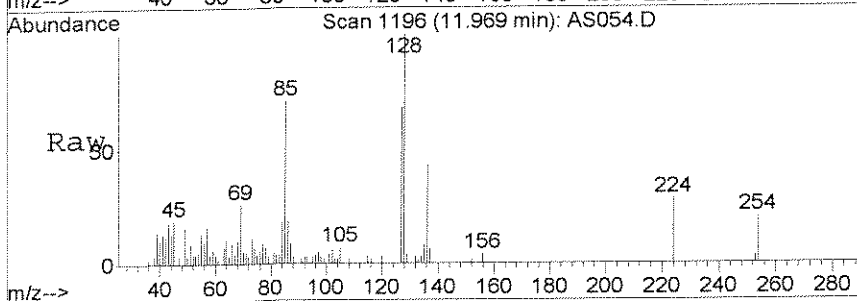
#2
 1,4-Dioxane
 Concen: 0.95 ppm
 RT: 5.82 min Scan# 45
 Delta R.T. 0.02 min
 Lab File: AS054.D
 Acq: 2 Jul 2008 7:13 pm

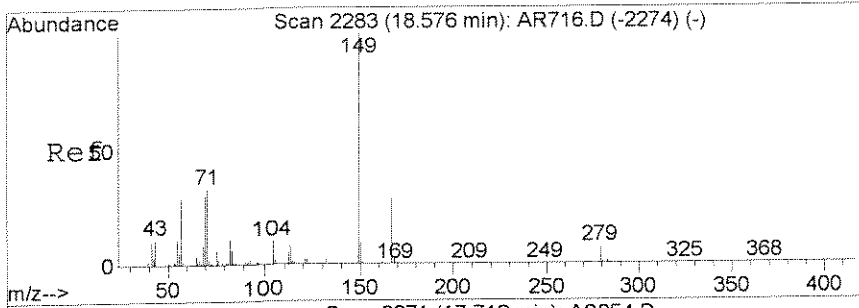
Tgt Ion	Resp	Lower	Upper
88	38604		
58	100	54.1	78.6



#7
 Naphthalene
 Concen: 0.05 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS054.D
 Acq: 2 Jul 2008 7:13 pm

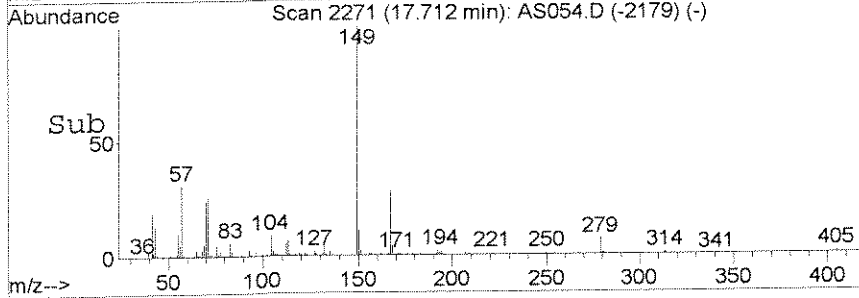
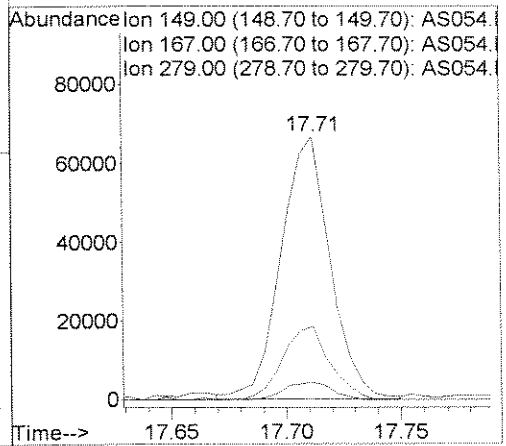
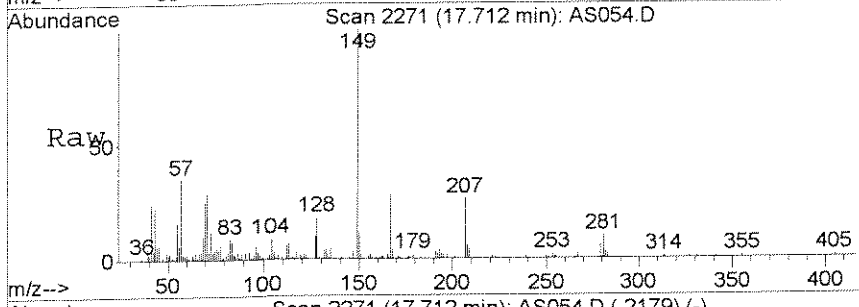
Tgt Ion	Resp	Lower	Upper
128	13678		
129	100	10.5	31.0
127	0.0	0.0	32.4





#30
 bis(2-Ethylhexyl)phthalate
 Concen: 0.53 ppm
 RT: 17.71 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: AS054.D
 Acq: 2 Jul 2008 7:13 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.5	33.7
279	6.6	5.5	8.3



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : MW-16B

Date Sampled : 06/26/08 14:05 Order #: 1112810 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/30/08			
DATE ANALYZED : 07/01/08			
ANALYTICAL DILUTION: 0.94			
ACENAPHTHENE	0.20	0.19 U	UG/L
ACENAPHTHYLENE	0.20	0.19 U	UG/L
ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) PYRENE	0.20	0.19 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.19 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.19 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.19 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.7 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.7 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.19 U	UG/L
CHRYSENE	0.20	0.19 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.19 U	UG/L
DIETHYLPHTHALATE	5.0	4.7 U	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	0.26 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	0.54 JB	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.19 U	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.7 U	UG/L
PHENANTHRENE	0.20	0.19 U	UG/L
PYRENE	0.20	0.19 U	UG/L
PYRIDINE	2.0	1.9 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	100	%
NITROBENZENE-d5	(45 - 135 %)	90	%
2-FLUOROBIPHENYL	(45 - 135 %)	71	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS030.D
 Acq On : 1 Jul 2008 11:59 pm
 Sample : 1112810 0.94
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 00:25:40 2008

Vial: 20
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	91882	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	306213	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	148146	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	352723	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	294475	1.00	ppm	-0.01
33) d12-Perylene	21.30	264	205361	1.00	ppm	-0.02

System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	314104	1.79	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	89.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	372271	1.41	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	70.50%
28) SURR6,TERPHENYL-D14	16.25	244	496731	1.99	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	99.50%

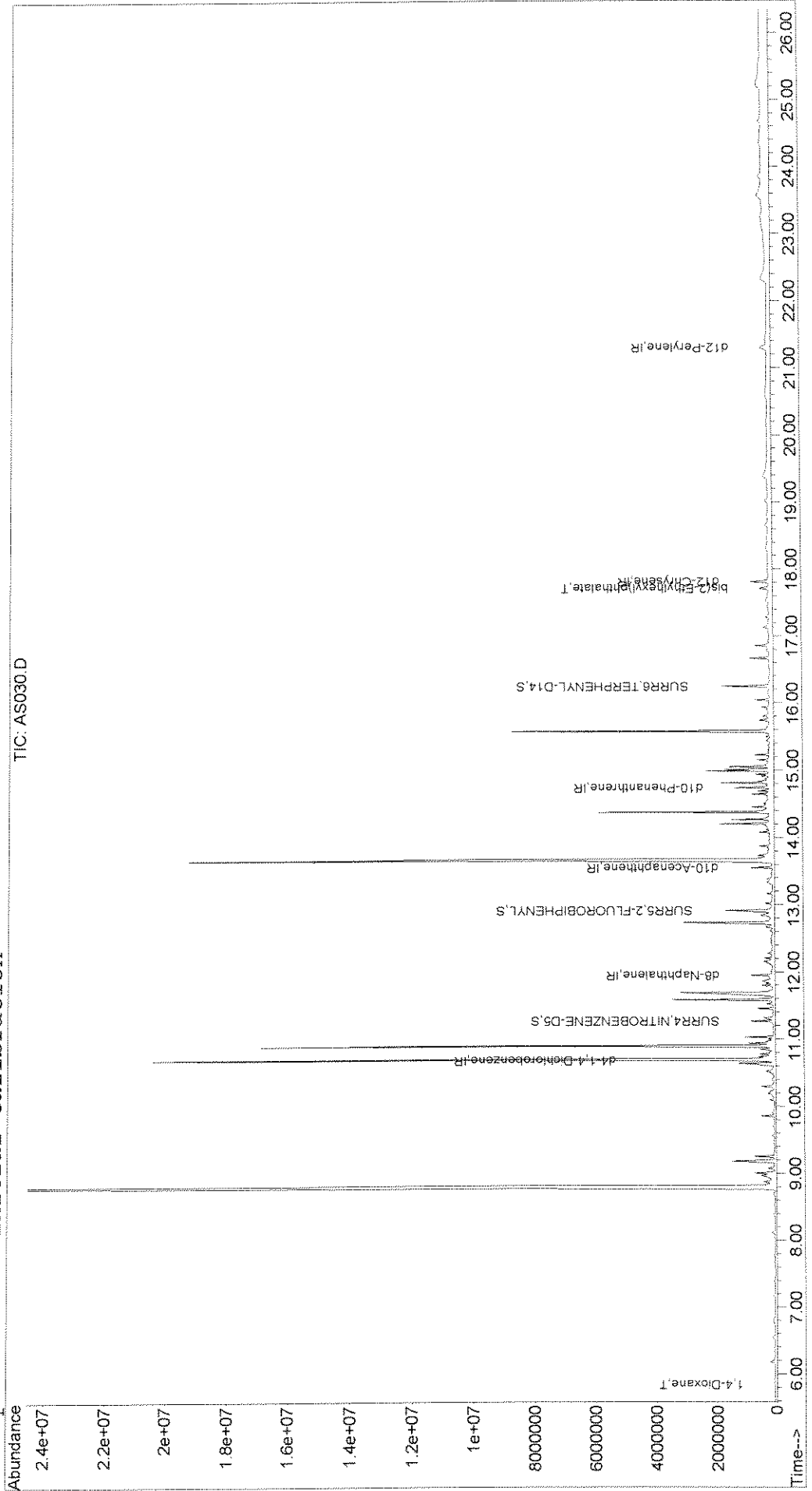
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.85	88	14963	0.28	ppm	95
30) bis(2-Ethylhexyl)phthalate	17.71	149	122447	0.57	ppm	96

JW

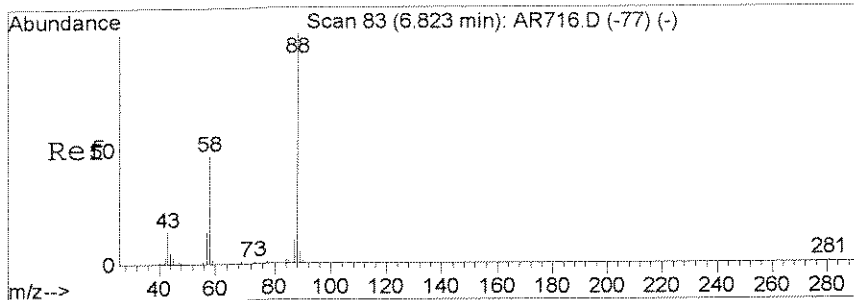
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS030.D Vial: 20
 Acq On : 1 Jul 2008 11:59 pm Operator: J.Wu
 Sample : 1112810 0.94 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 7:45 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

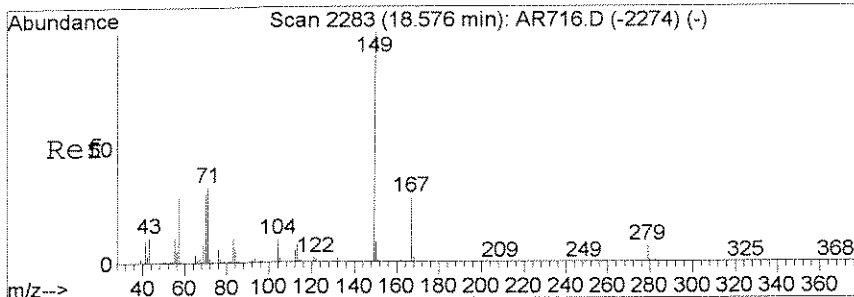
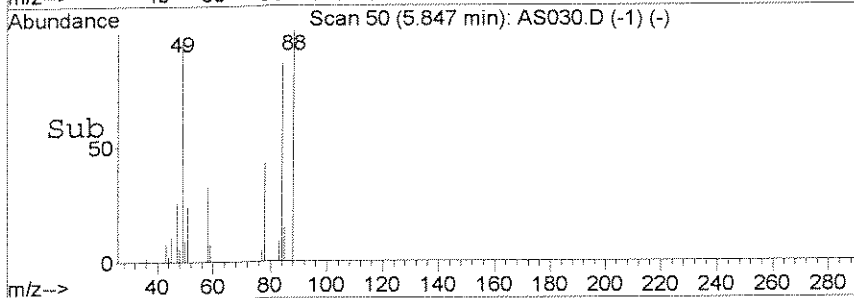
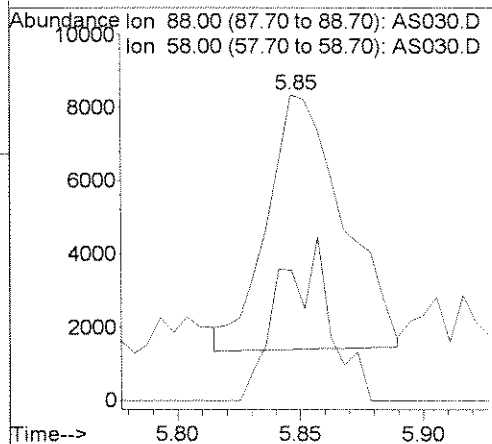
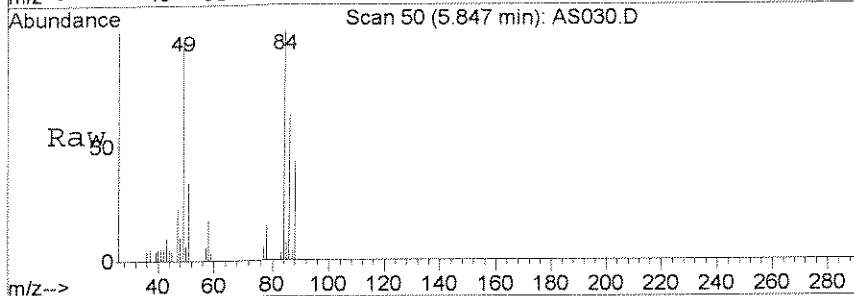


00734



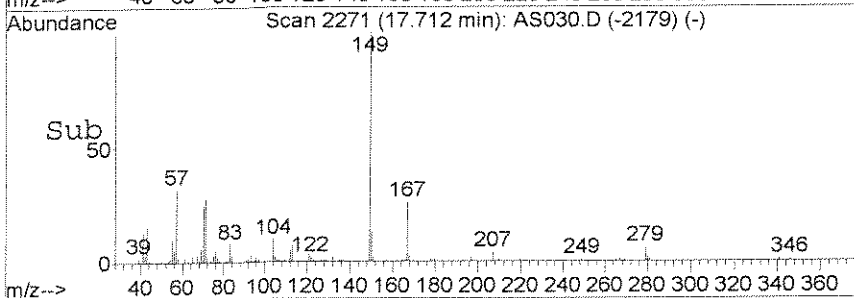
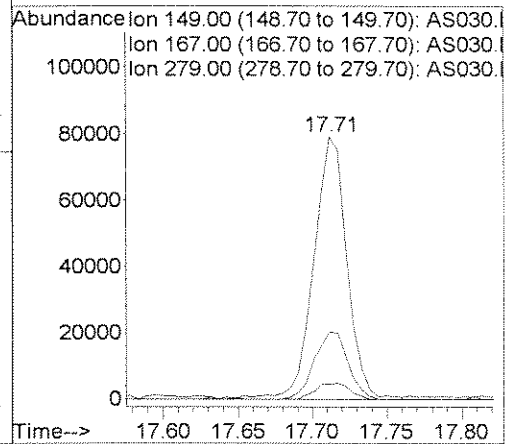
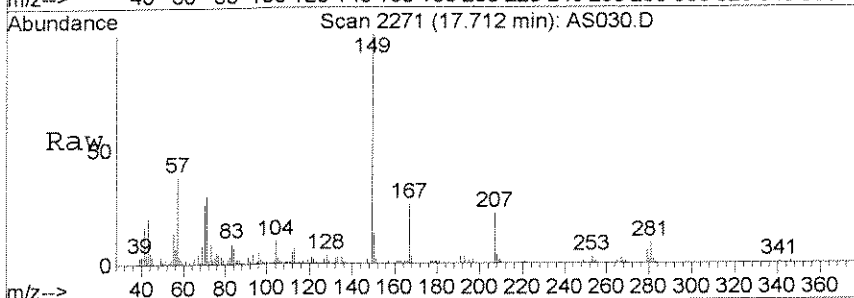
#2
 1,4-Dioxane
 Concen: 0.28 ppm
 RT: 5.85 min Scan# 50
 Delta R.T. 0.04 min
 Lab File: AS030.D
 Acq: 1 Jul 2008 11:59 pm

Tgt Ion: 88 Resp: 14963
 Ion Ratio Lower Upper
 88 100
 58 54.6 38.6 78.6



#30
 bis(2-Ethylhexyl)phthalate
 Concen: 0.57 ppm
 RT: 17.71 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: AS030.D
 Acq: 1 Jul 2008 11:59 pm

Tgt Ion: 149 Resp: 122447
 Ion Ratio Lower Upper
 149 100
 167 25.6 22.5 33.7
 279 5.7 5.5 8.3



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
Client Sample ID : M-5AB

Date Sampled : 06/26/08 09:10 **Order #:** 1112811 **Sample Matrix:** WATER
Date Received: 06/27/08 **Submission #:** R2844650 **Analytical Run** 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	0.95		
ACENAPHTHENE	0.20	0.19 U	UG/L
ACENAPHTHYLENE	0.20	0.19 U	UG/L
ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) PYRENE	0.20	0.19 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.19 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.19 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.19 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.8 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.8 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.19 U	UG/L
CHRYSENE	0.20	0.19 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.19 U	UG/L
DIETHYLPHTHALATE	5.0	4.8 U	UG/L
DIMETHYL PHTHALATE	5.0	4.8 U	UG/L
1, 4-DIOXANE	2.0	0.87 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.8 U	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLOROBENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.048 JB	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.8 U	UG/L
PHENANTHRENE	0.20	0.19 U	UG/L
PYRENE	0.20	0.19 U	UG/L
PYRIDINE	2.0	1.9 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
TERPHENYL-d14	(45 - 135 %)	93	%
NITROBENZENE-d5	(45 - 135 %)	72	%
2-FLUOROBIPHENYL	(45 - 135 %)	64	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS039.D Vial: 5
 Acq On : 2 Jul 2008 10:18 am Operator: J.Wu
 Sample : 1112811 0.95 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 10:44:40 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	85349	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	320243	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	169493	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	334894	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	296911	1.00	ppm	0.00
33) d12-Perylene	21.31	264	260043	1.00	ppm	-0.01

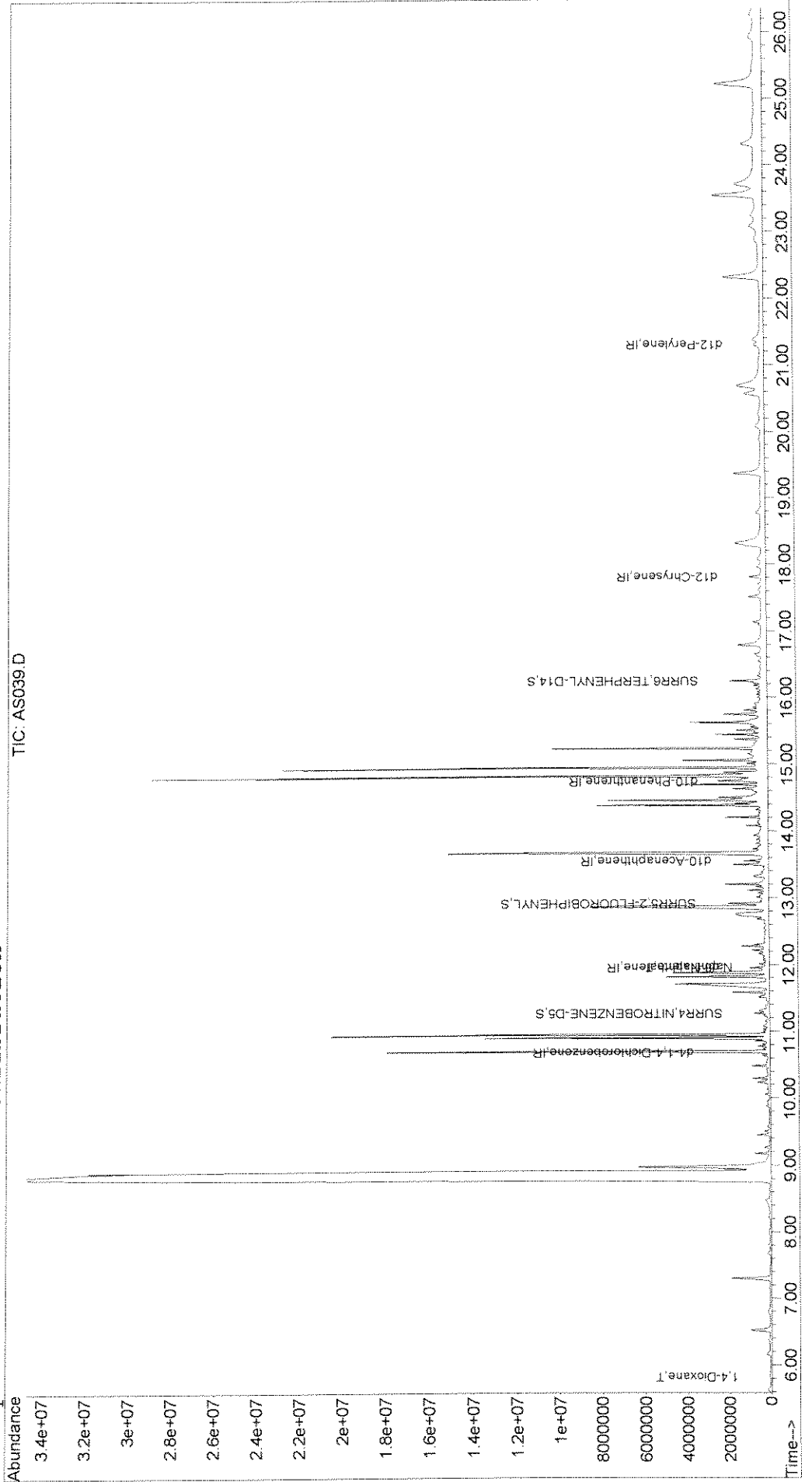
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	264077	1.44	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	72.00%		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	374045	1.27	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	63.50%		
28) SURR6,TERPHENYL-D14	16.25	244	465685	1.85	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	92.50%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.83	88	44836	0.92	ppm	92
7) Naphthalene	11.97	128	17321	0.05	ppm	74

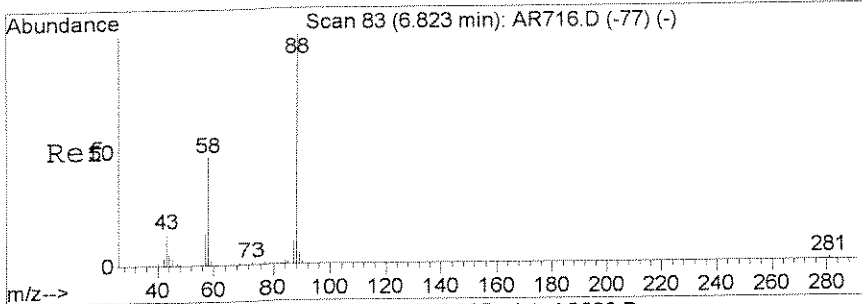
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS039.D Vial: 5
 Acq On : 2 Jul 2008 10:18 am Operator: J.Wu
 Sample : 1112811 0.95 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 8:21 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

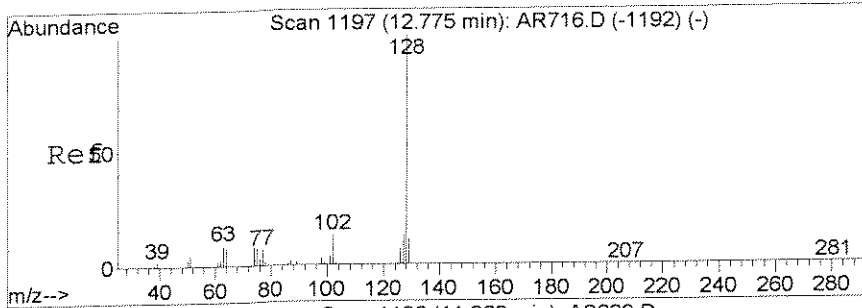
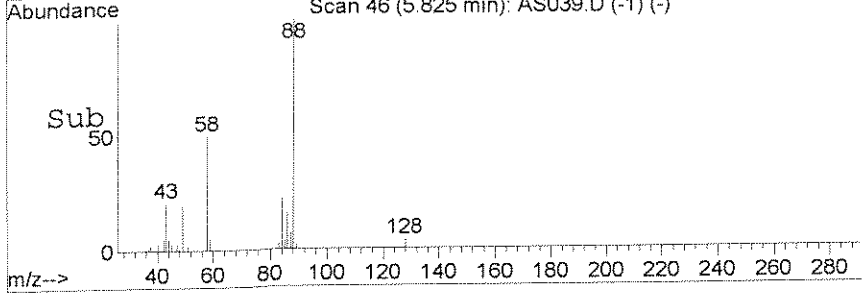
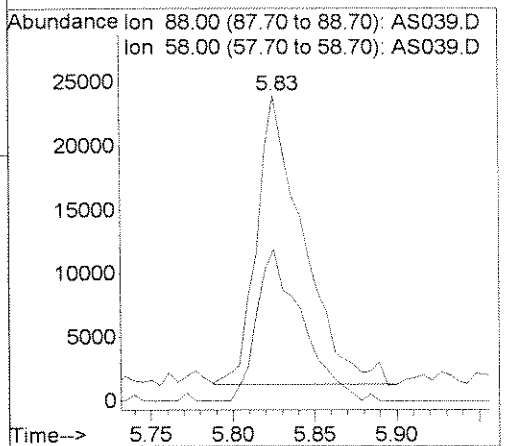
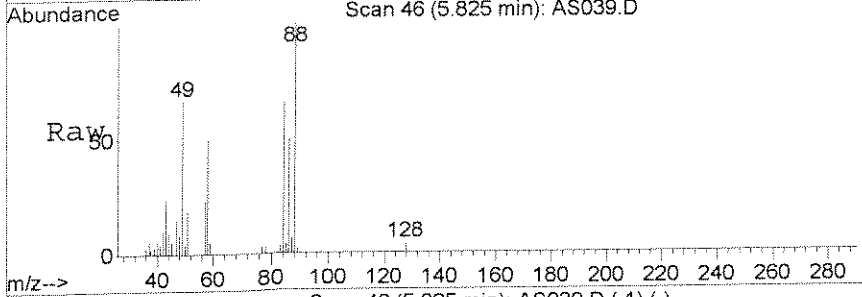


00722



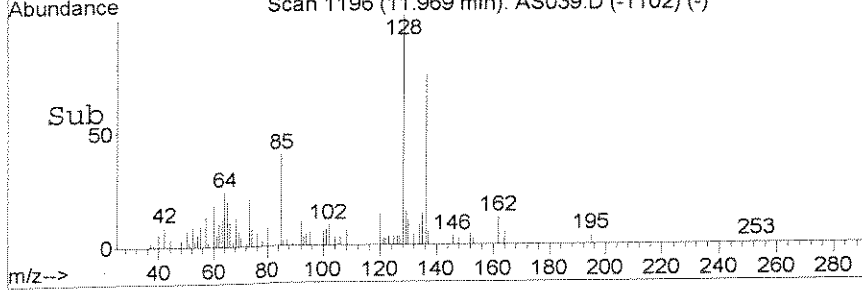
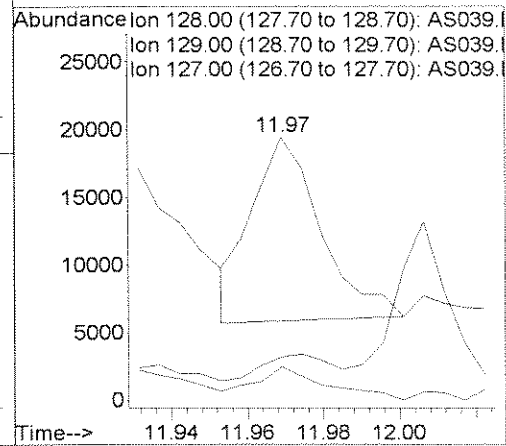
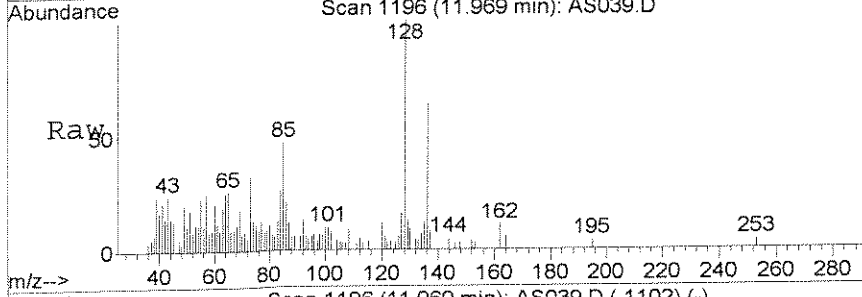
#2
 1,4-Dioxane
 Concen: 0.92 ppm
 RT: 5.83 min Scan# 46
 Delta R.T. 0.02 min
 Lab File: AS039.D
 Acq: 2 Jul 2008 10:18 am

Tgt Ion	Resp	Lower	Upper
88	44836	100	
58	52.6	38.6	78.6



#7
 Naphthalene
 Concen: 0.05 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS039.D
 Acq: 2 Jul 2008 10:18 am

Tgt Ion	Resp	Lower	Upper
128	17321	100	
129	18.7	0.0	31.0
127	0.0	0.0	32.4



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
 Client Sample ID : EB062608GW3

Date Sampled : 06/26/08 14:00 Order #: 1112812 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	0.99		
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) PYRENE	0.20	0.20 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.20 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.20 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	5.0 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	5.0 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHTHALATE	5.0	0.38 J	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4-DIOXANE	2.0	2.0 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.0 U	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLOROBENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.050 JB	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.20 U	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	99	%
NITROBENZENE-d5	(45 - 135 %)	80	%
2-FLUOROBIPHENYL	(45 - 135 %)	64	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS041.D
 Acq On : 2 Jul 2008 11:29 am
 Sample : 1112812 0.99
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 11:56:19 2008

Vial: 7
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	81375	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	285746	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	149501	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	314174	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	271983	1.00	ppm	0.00
33) d12-Perylene	21.31	264	193998	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	262595	1.60	ppm	0.00
Spiked Amount 2.000	Range	22 - 124	Recovery	=	80.00%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	332505	1.27	ppm	0.00
Spiked Amount 2.000	Range	27 - 114	Recovery	=	63.50%	
28) SURR6,TERPHENYL-D14	16.25	244	456770	1.98	ppm	0.00
Spiked Amount 2.000	Range	23 - 139	Recovery	=	99.00%	

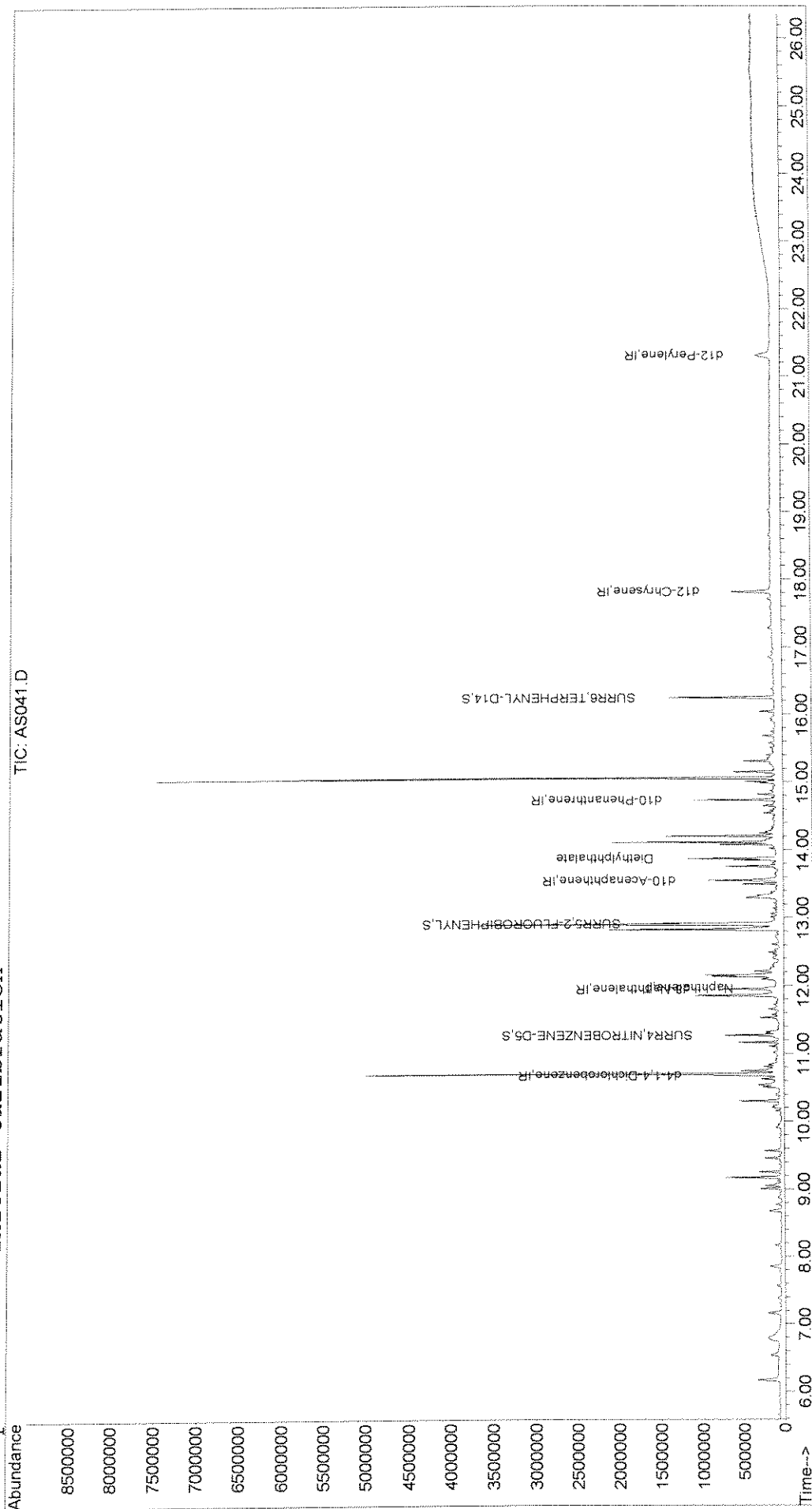
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
7) Naphthalene	11.97	128	15953	0.05	ppm	96
17) Diethylphthalate	13.88	149	92416	0.38	ppm	96

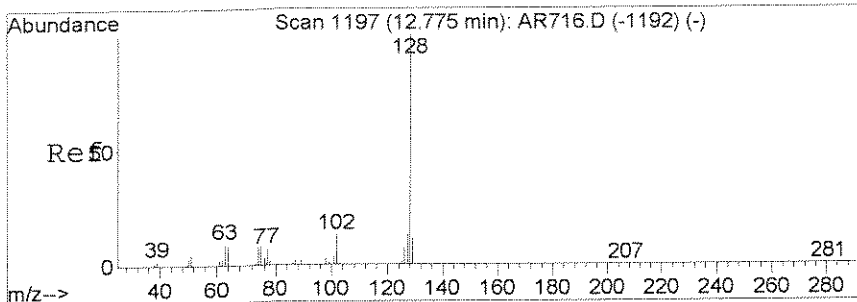
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS041.D
Acq On : 2 Jul 2008 11:29 am Vial: 7
Sample : 1112812 0.99 Operator: J.Wu
Misc : 06/30/2008 1.0 ENSR 8270.NEVA Inst : 5973C
Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 8:27 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration

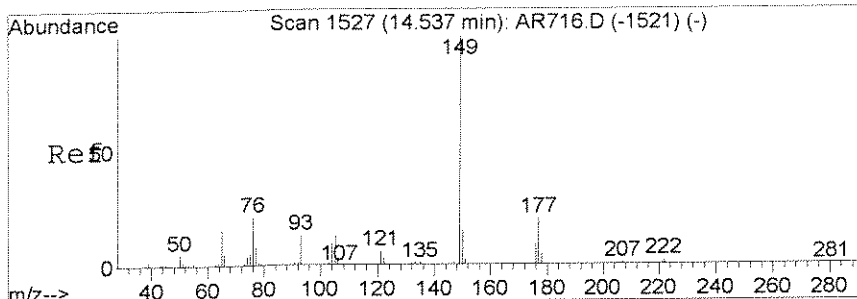
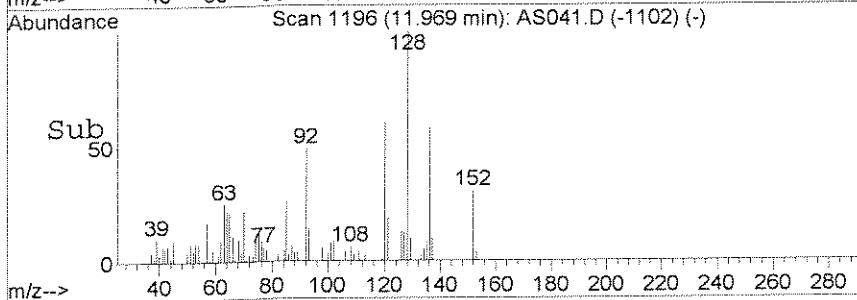
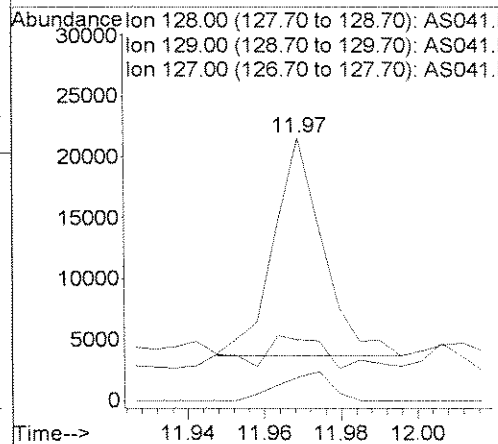
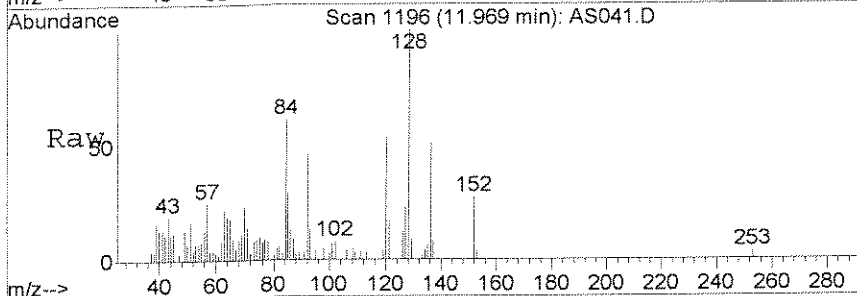


00792



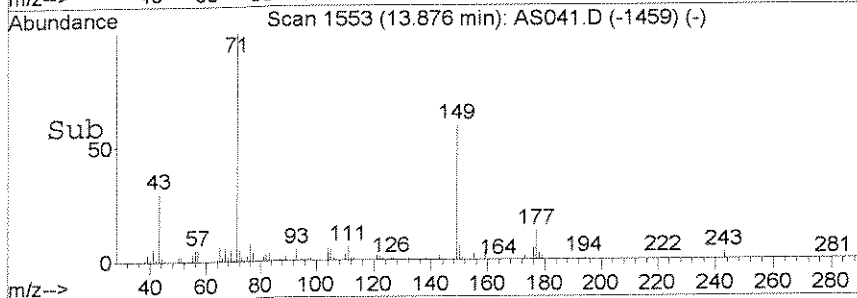
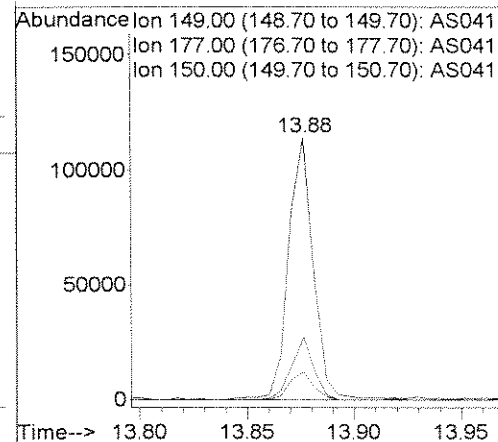
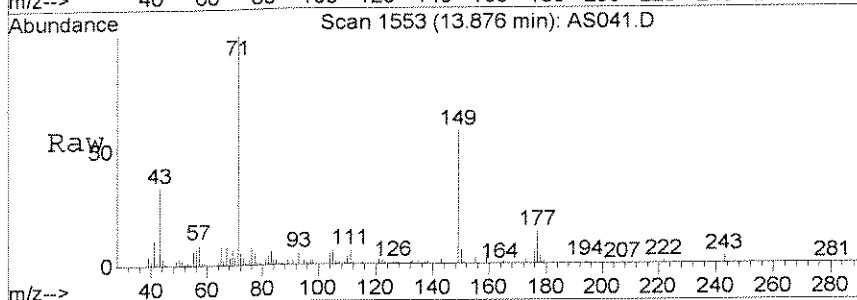
#7
 Naphthalene
 Concen: 0.05 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS041.D
 Acq: 2 Jul 2008 11:29 am

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	31.0
127	9.4	0.0	32.4



#17
 Diethylphthalate
 Concen: 0.38 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AS041.D
 Acq: 2 Jul 2008 11:29 am

Tgt Ion	Ratio	Lower	Upper
149	100		
177	23.9	15.3	28.3
150	10.6	8.3	15.3



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-61B

Date Sampled : 06/26/08 11:00 Order #: 1112871 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	0.98		
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) PYRENE	0.20	0.20 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.20 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.20 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.9 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.9 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHTHALATE	5.0	4.9 U	UG/L
DIMETHYL PHTHALATE	5.0	4.9 U	UG/L
1, 4-DIOXANE	2.0	0.45 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.9 U	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLOROBENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.20 U	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.9 U	UG/L
PHENANTHRENE	0.20	0.20 U	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	96	%
NITROBENZENE-d5	(45 - 135 %)	74	%
2-FLUOROBIPHENYL	(45 - 135 %)	65	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS052.D Vial: 18
 Acq On : 2 Jul 2008 6:01 pm Operator: J.Wu
 Sample : 1112871 0.98 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 18:28:24 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	75524	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	285209	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	137436	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	309580	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	251561	1.00	ppm	-0.01
33) d12-Perylene	21.30	264	135991	1.00	ppm	-0.02

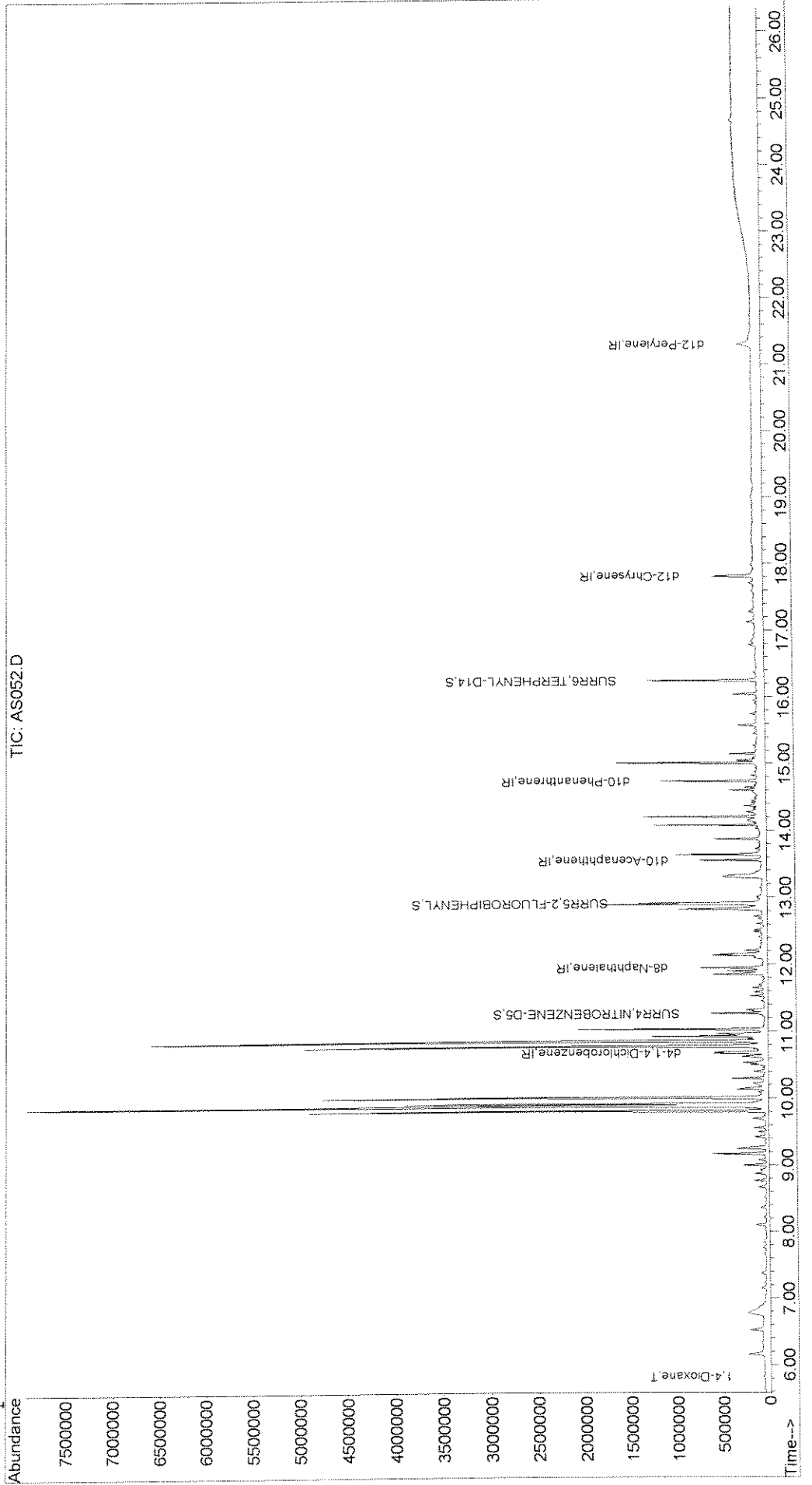
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.26	82	242579	1.48	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	74.00%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	310835	1.29	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	64.50%
28) SURR6,TERPHENYL-D14	16.25	244	409471	1.92	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	96.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.82	88	20008	0.46	ppm	92

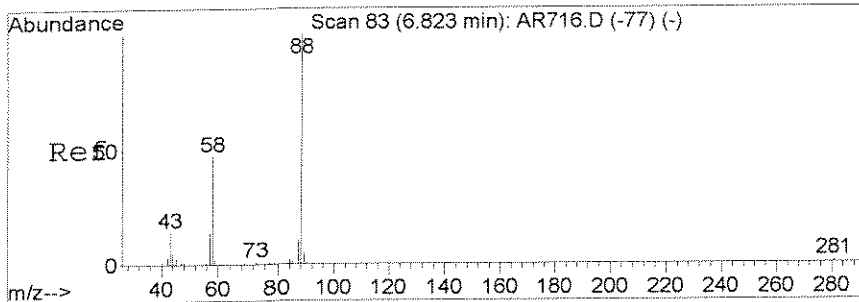
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS052.D Vial: 18
Acq On : 2 Jul 2008 6:01 pm Operator: J.Wu
Sample : 1112871 0.98 Inst : 5973C
Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 9:09 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration

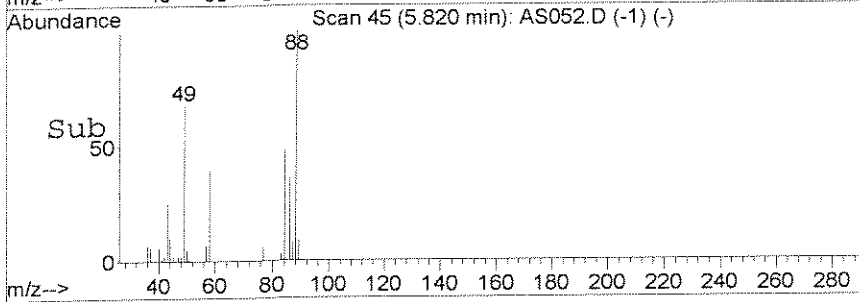
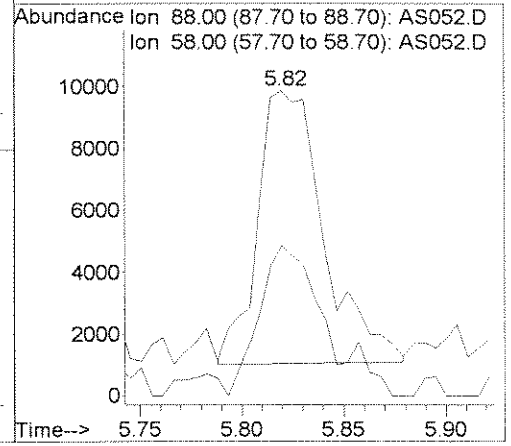
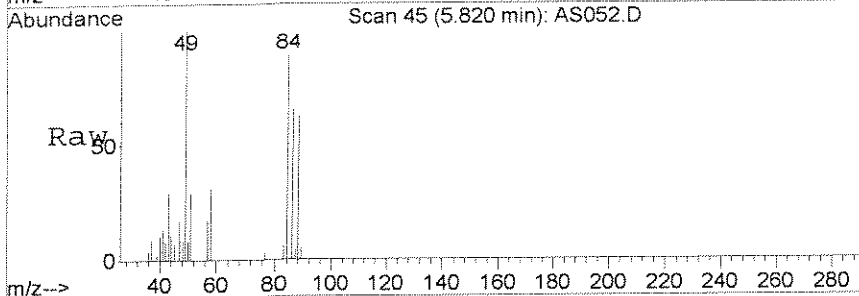


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#2
 1,4-Dioxane
 Concen: 0.46 ppm
 RT: 5.82 min Scan# 45
 Delta R.T. 0.02 min
 Lab File: AS052.D
 Acq: 2 Jul 2008 6:01 pm

Tgt Ion	Ratio	Lower	Upper
88	100		
58	52.8	38.6	78.6



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-88BB

Date Sampled : 06/26/08 08:00 Order #: 1112872 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	0.99		
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) PYRENE	0.20	0.20 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.20 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.20 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	5.0 U	UG/L
DI-N-BUTYLPHthalate	5.0	5.0 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHthalate	5.0	5.0 U	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4-DIOXANE	2.0	0.55 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.0 U	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLORO BENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.20 U	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.20 U	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	97	%
NITROBENZENE-d5	(45 - 135 %)	80	%
2-FLUOROBIPHENYL	(45 - 135 %)	67	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070208\AS042.D
 Acq On : 2 Jul 2008 12:05 pm
 Sample : 1112872 0.99
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 12:31:49 2008

Vial: 8
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	80224	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	296686	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	139661	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	307245	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	255264	1.00	ppm	0.00
33) d12-Perylene	21.30	264	158486	1.00	ppm	-0.02

System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	269356	1.59	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	79.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	327084	1.33	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	66.50%
28) SURR6,TERPHENYL-D14	16.25	244	416677	1.93	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	96.50%

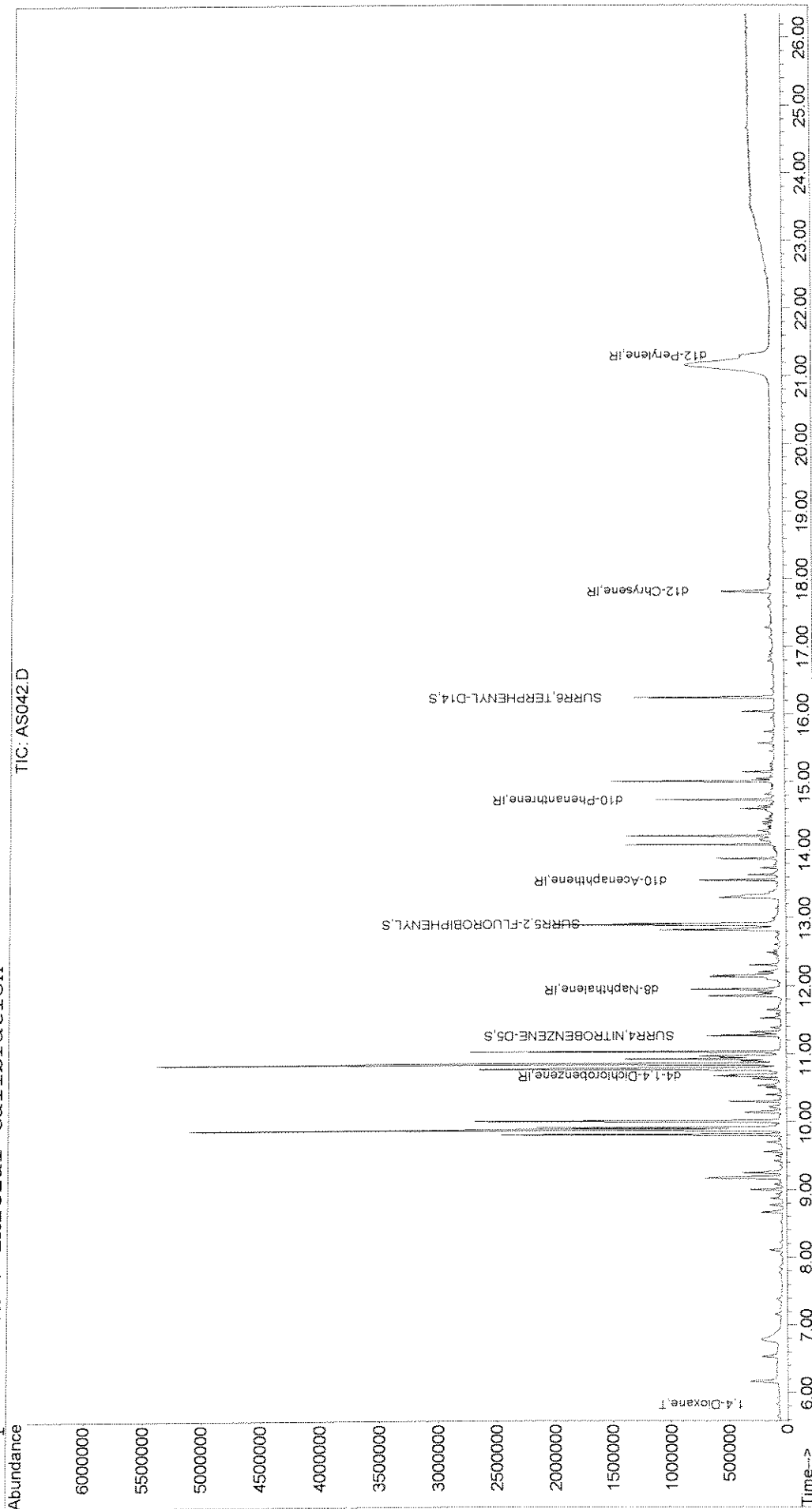
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.83	88	25976	0.56	ppm	92

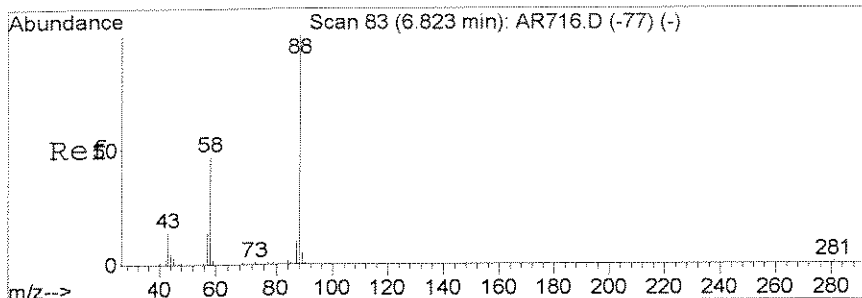
JW
 00799

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS042.D Vial: 8
Acq On : 2 Jul 2008 12:05 pm Operator: J.Wu
Sample : 1112872 0.99 Inst : 5973C
Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 8:28 2008 Quant Results File: LVI0626.RES

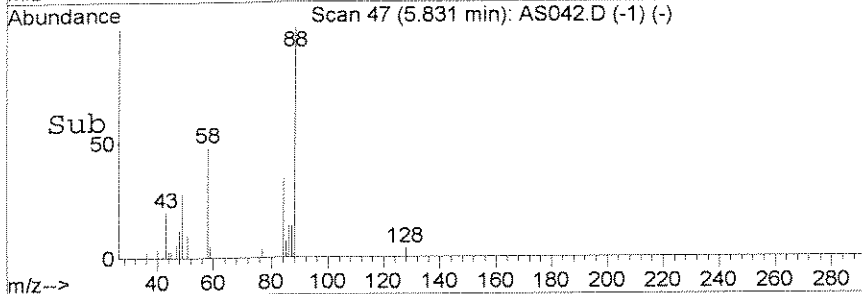
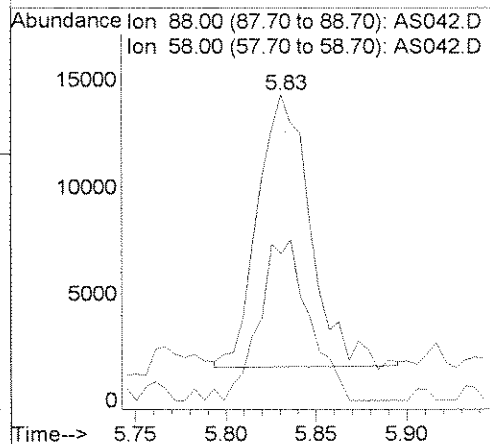
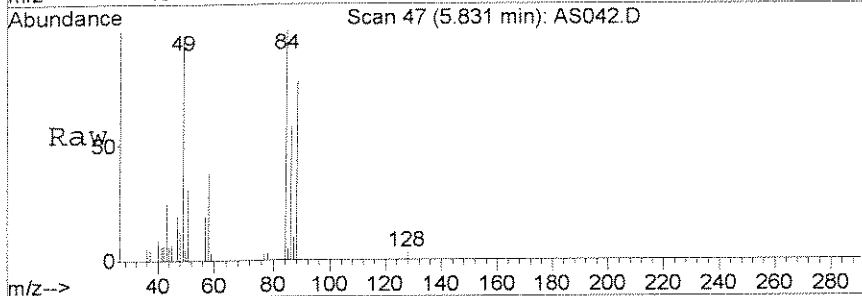
Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration





#2
 1,4-Dioxane
 Concen: 0.56 ppm
 RT: 5.83 min Scan# 47
 Delta R.T. 0.03 min
 Lab File: AS042.D
 Acq: 2 Jul 2008 12:05 pm

Tgt Ion	Resp	Lower	Upper
88	25976		
58	100	52.7	78.6



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-7BB

Date Sampled : 06/26/08 09:20 Order #: 1112874 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	0.94		
ACENAPHTHENE	0.20	0.19 U	UG/L
ACENAPHTHYLENE	0.20	0.19 U	UG/L
ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) PYRENE	0.20	0.19 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.19 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.19 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.19 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.7 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.7 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.19 U	UG/L
CHRYSENE	0.20	0.19 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.19 U	UG/L
DIETHYLPHTHALATE	5.0	4.7 U	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	0.36 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.7 U	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.19 U	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.7 U	UG/L
PHENANTHRENE	0.20	0.19 U	UG/L
PYRENE	0.20	0.19 U	UG/L
PYRIDINE	2.0	1.9 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	103	%
NITROBENZENE-d5	(45 - 135 %)	79	%
2-FLUOROBIPHENYL	(45 - 135 %)	72	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS044.D
 Acq On : 2 Jul 2008 1:16 pm
 Sample : 1112874 0.94
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 13:42:31 2008

Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	70271	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	266782	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	134044	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	325049	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	271842	1.00	ppm	-0.01
33) d12-Perylene	21.30	264	199389	1.00	ppm	-0.02

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	239850	1.57	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	78.50%		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	341058	1.43	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	71.50%		
28) SURR6,TERPHENYL-D14	16.25	244	474830	2.06	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	103.00%		

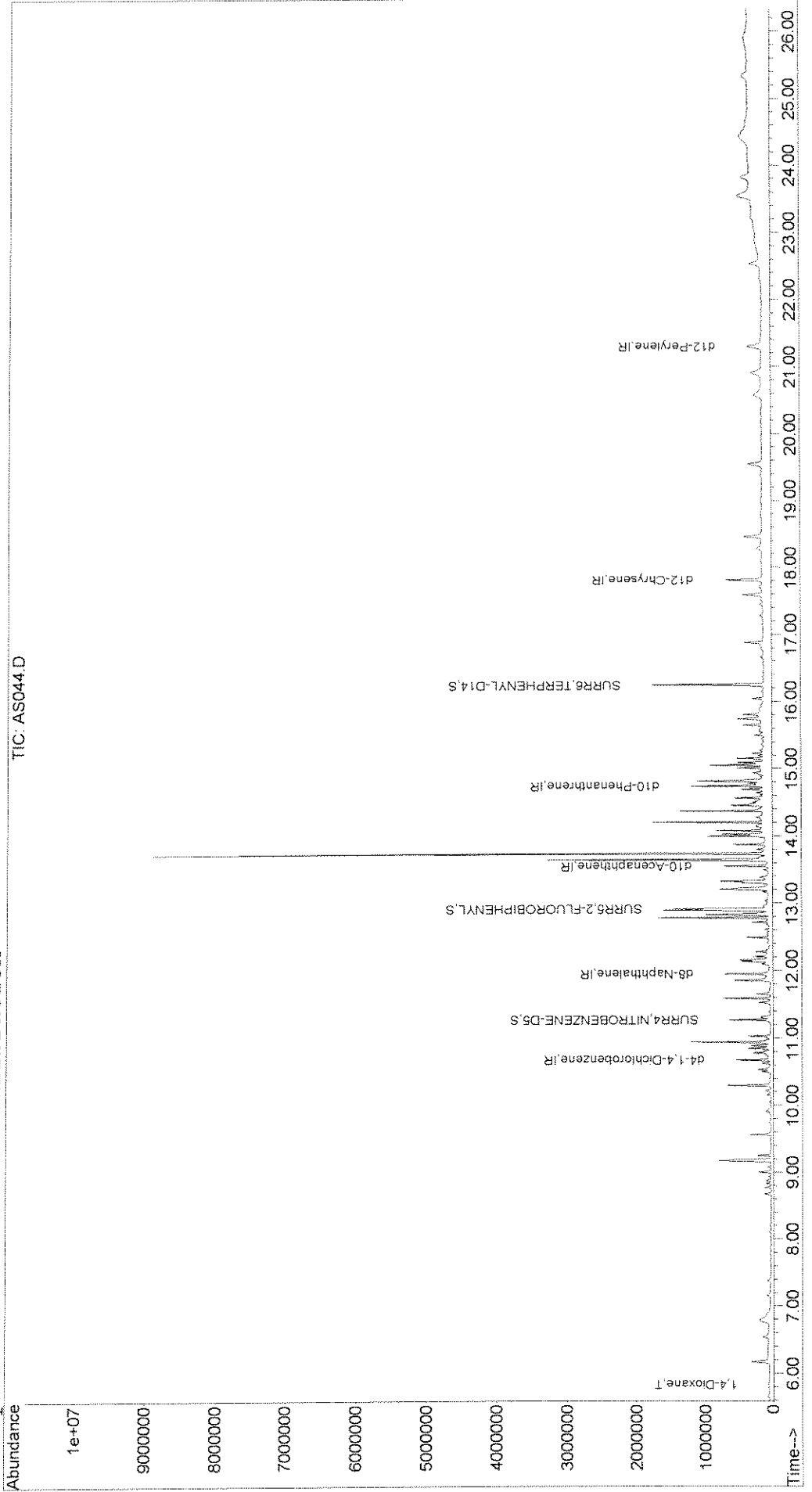
Target Compounds

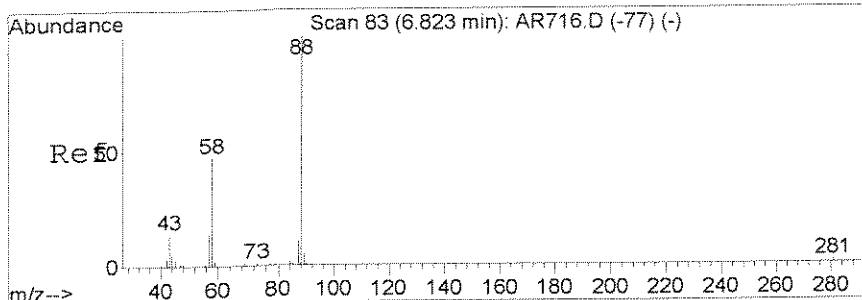
2) 1,4-Dioxane	5.83	88	15295	0.38	ppm	Qvalue 94
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Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS044.D
Acq On : 2 Jul 2008 1:16 pm Vial: 10
Sample : 1112874 0.94 Operator: J.Wu
Misc : 06/30/2008 1.0 ENSR 8270.NEVA Inst : 5973C
Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 8:32 2008 Quant Results File: LVI0626.RES

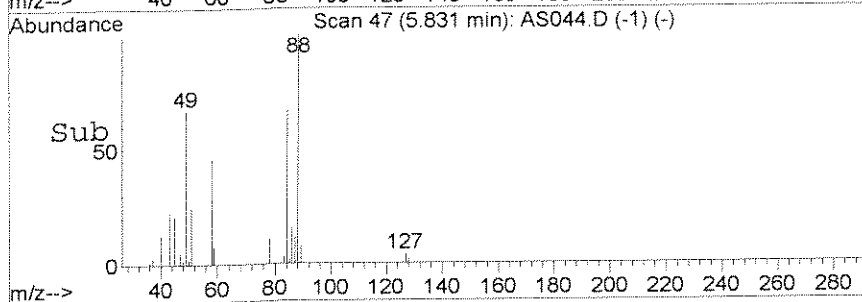
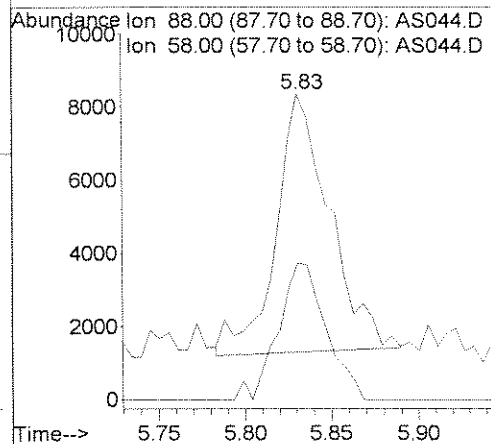
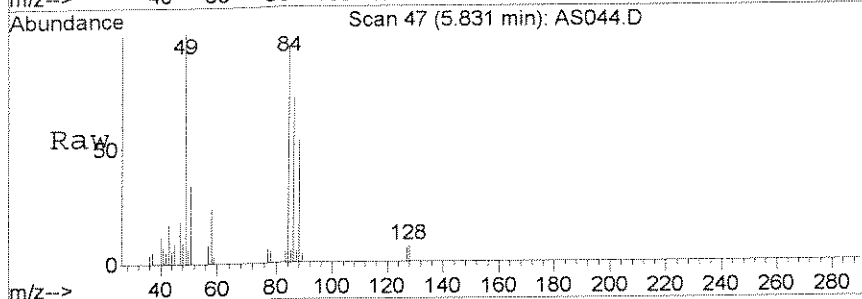
Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration





#2
 1,4-Dioxane
 Concn: 0.38 ppm
 RT: 5.83 min Scan# 47
 Delta R.T. 0.03 min
 Lab File: AS044.D
 Acq: 2 Jul 2008 1:16 pm

Tgt Ion	Resp	Lower	Upper
88	15295		
58	54.0	38.6	78.6



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-67B

Date Sampled : 06/27/08 07:00 Order #: 1113426 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	0.98		
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) PYRENE	0.20	0.20 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.20 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.20 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.9 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.9 U	UG/L
INDENO (1, 2, 3 - CD) PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHTHALATE	5.0	4.9 U	UG/L
DIMETHYL PHTHALATE	5.0	4.9 U	UG/L
1, 4-DIOXANE	2.0	0.26 J	UG/L
BIS (2 - ETHYLHEXYL) PHTHALATE	5.0	4.9 U	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLOROBENZENE	0.20	0.20 U	UG/L
2 - METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.049 JB	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.9 U	UG/L
PHENANTHRENE	0.20	0.20 U	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	105	%
NITROBENZENE-d5	(45 - 135 %)	83	%
2 - FLUOROBIPHENYL	(45 - 135 %)	68	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070208\AS047.D
 Acq On : 2 Jul 2008 3:02 pm
 Sample : 1113426 0.98
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 15:29:21 2008

Vial: 13
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	70441	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	270942	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	138050	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	311287	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	259662	1.00	ppm	-0.01
33) d12-Perylene	21.30	264	153647	1.00	ppm	-0.02

System Monitoring Compounds

5) SURR4, NITROBENZENE-D5	11.27	82	257929	1.66	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	83.00%
11) SURR5, 2-FLUOROBIPHENYL	12.91	172	333335	1.36	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	68.00%
28) SURR6, TERPHENYL-D14	16.25	244	460063	2.09	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	104.50%

Target Compounds

Qvalue

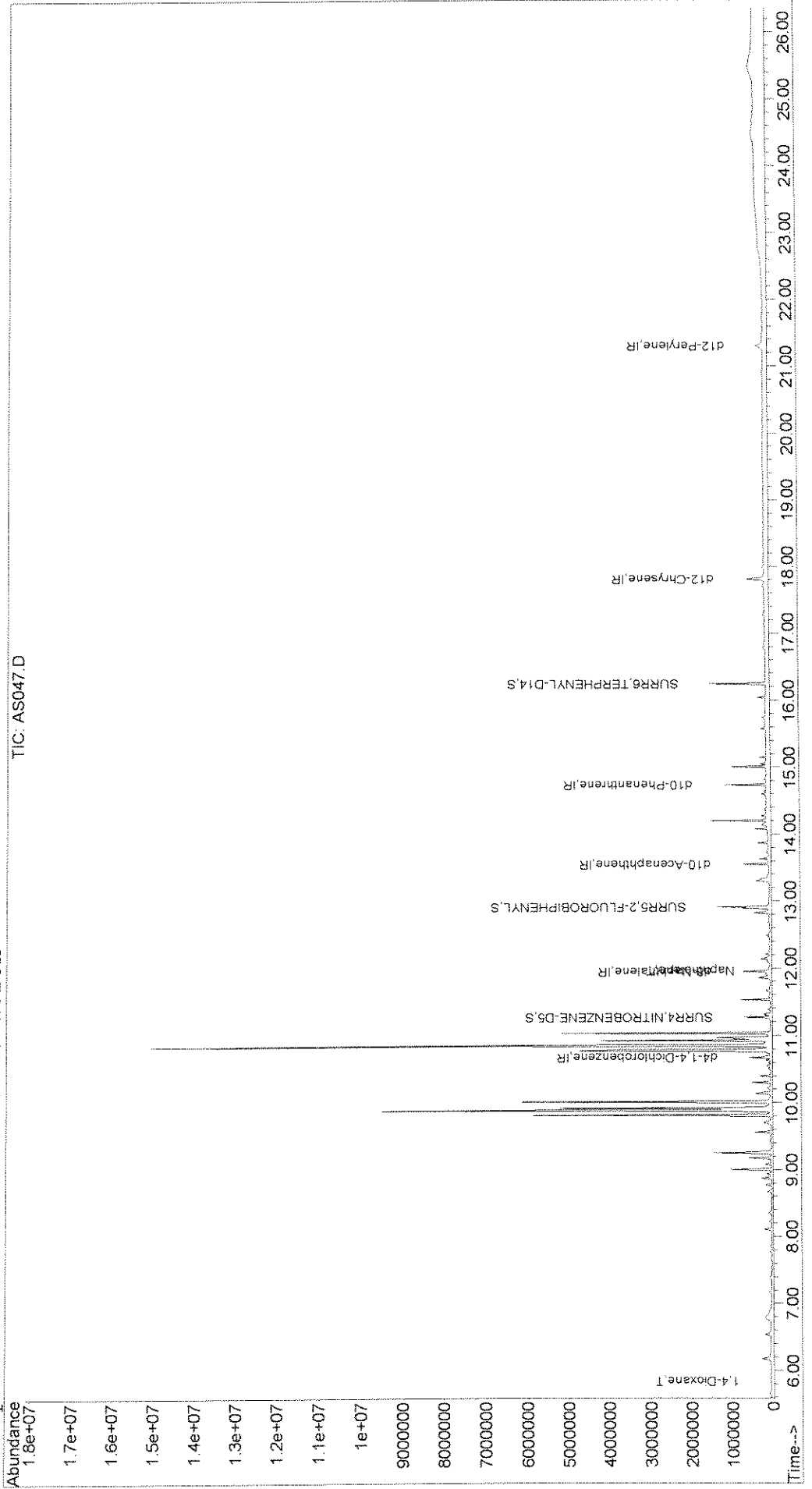
2) 1,4-Dioxane	5.84	88	10915m	0.27	ppm	
7) Naphthalene	11.97	128	13250 <i>7</i>	0.05	ppm	89

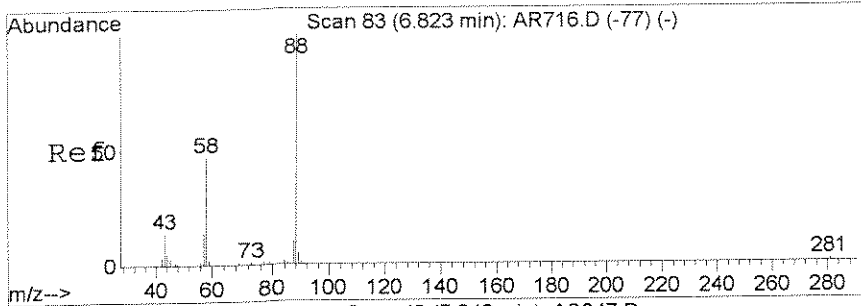
JW
 00807

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS047.D Vial: 13
Acq On : 2 Jul 2008 3:02 pm Operator: J.Wu
Sample : 1113426 0.98 Inst : 5973C
Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 8:53 2008 Quant Results File: LVI0626.RES

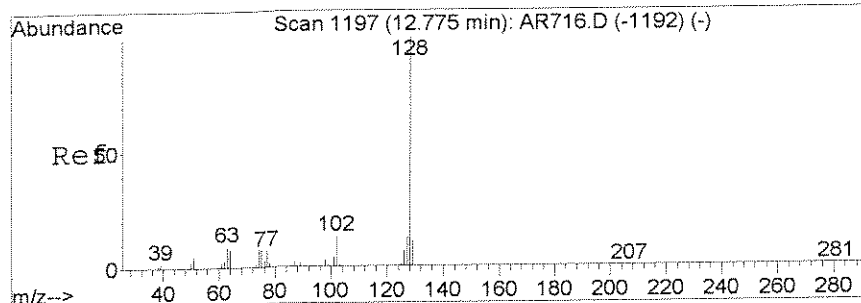
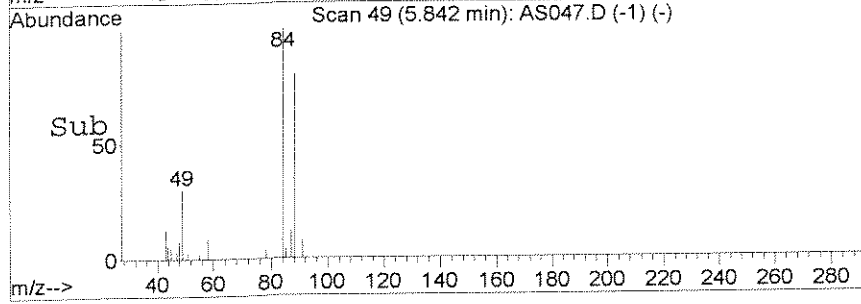
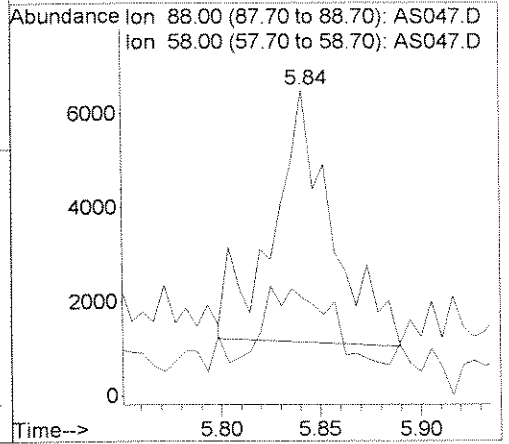
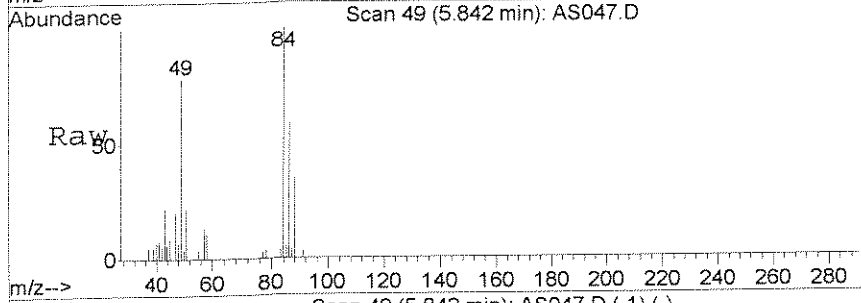
Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration





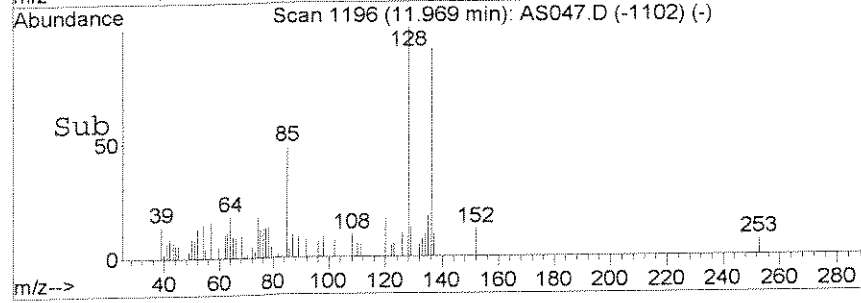
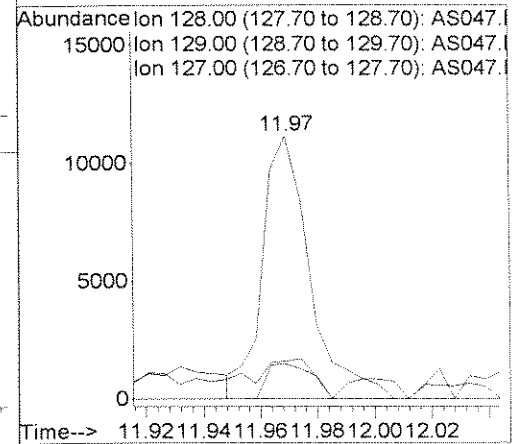
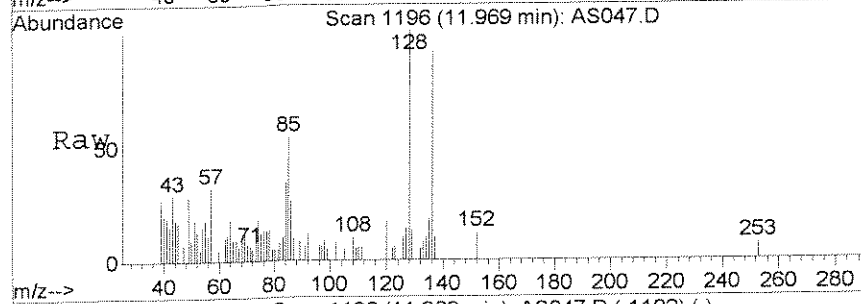
#2
 1,4-Dioxane
 Concen: 0.27 ppm m
 RT: 5.84 min Scan# 49
 Delta R.T. 0.04 min
 Lab File: AS047.D
 Acq: 2 Jul 2008 3:02 pm

Tgt Ion	Resp	Lower	Upper
88	10915		
58	31.8	38.6	78.6#



#7
 Naphthalene
 Concen: 0.05 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: AS047.D
 Acq: 2 Jul 2008 3:02 pm

Tgt Ion	Resp	Lower	Upper
128	13250		
129	13.8	0.0	31.0
127	6.4	0.0	32.4



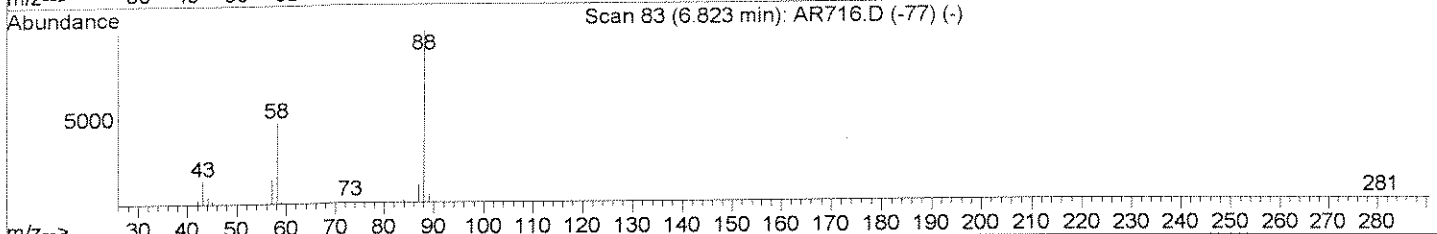
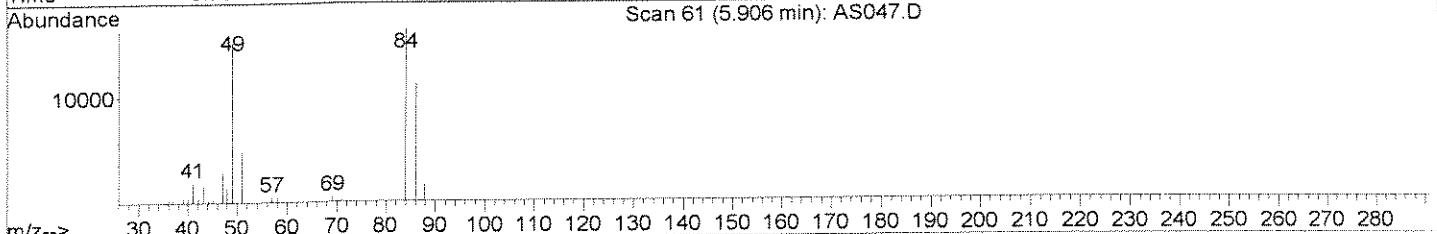
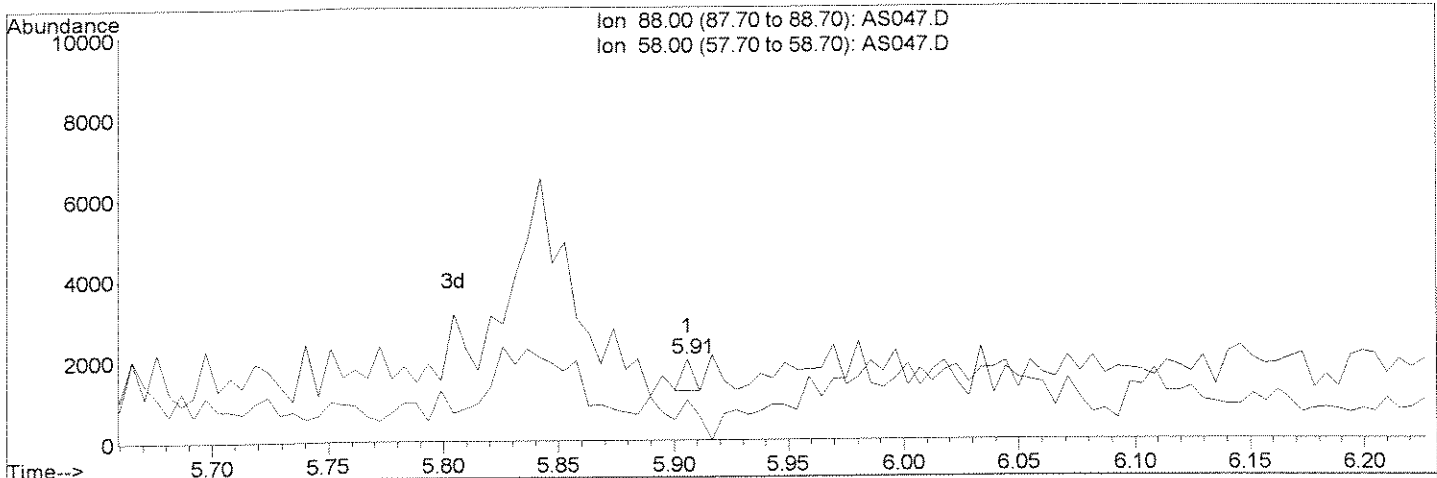
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS047.D
 Acq On : 2 Jul 2008 3:02 pm
 Sample : 1113426 0.98
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 15:29 2008

Vial: 13
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)

5.91min 0.01ppm

response 251

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	56.84
0.00	0.00	0.00
0.00	0.00	0.00

B

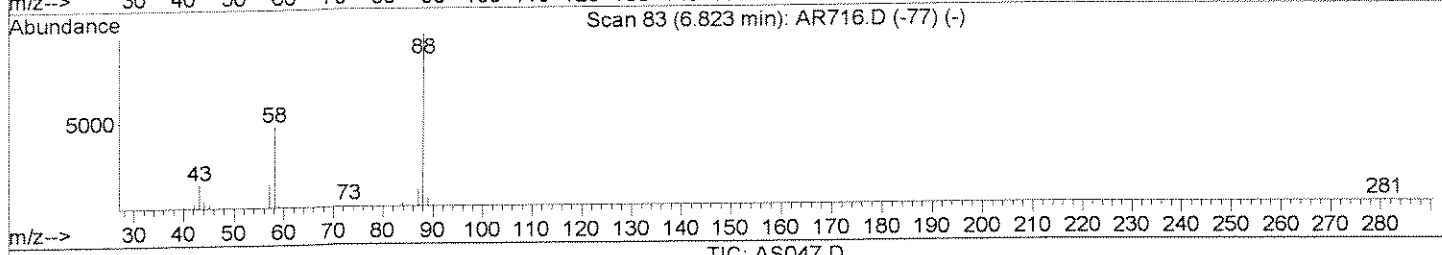
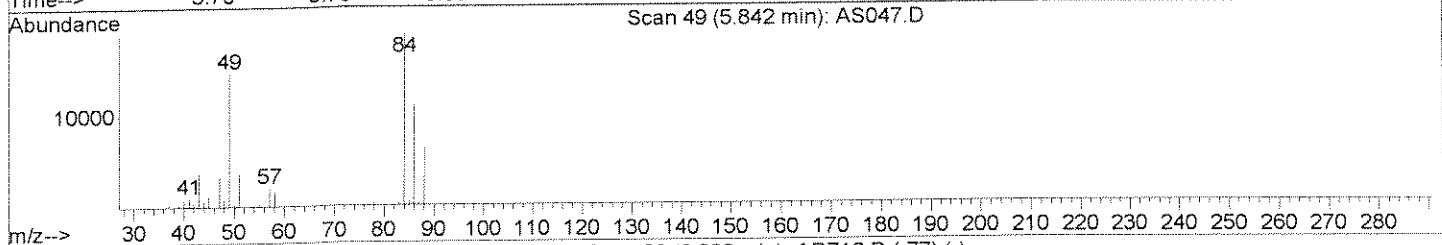
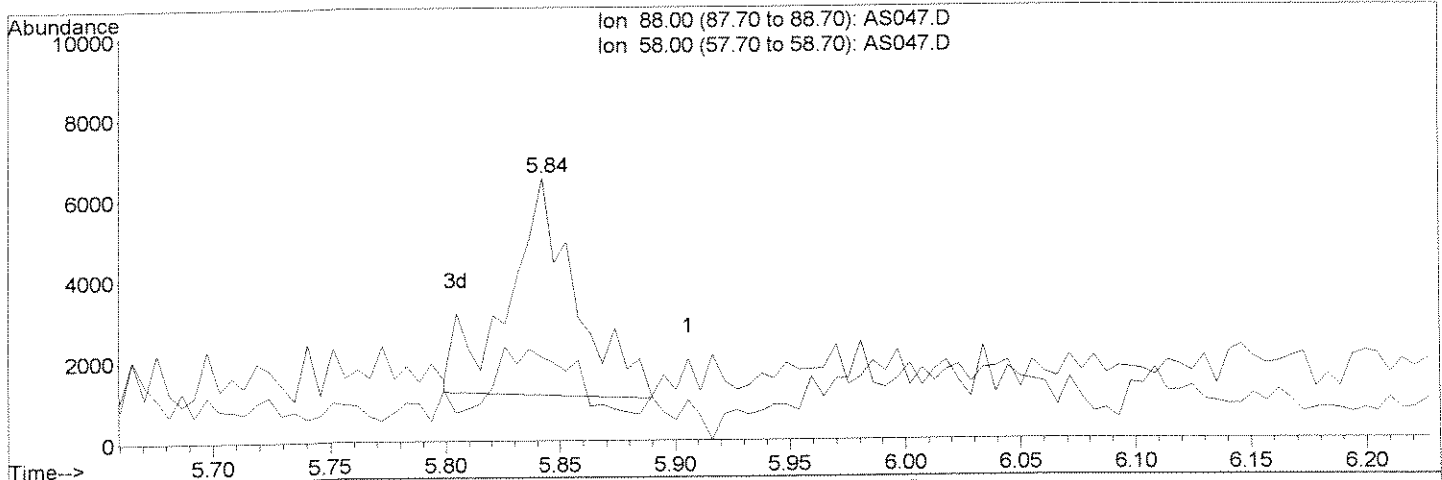
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS047.D
 Acq On : 2 Jul 2008 3:02 pm
 Sample : 1113426 0.98
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 8:52 2008

Vial: 13
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)
 5.84min 0.27ppm m
 response 10915

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	31.83#
0.00	0.00	0.00
0.00	0.00	0.00

AW 7/3

WJ 7/3

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-6AB

Date Sampled : 06/27/08 09:50 Order #: 1113427 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	0.99		
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.020 J	UG/L
BENZO (A) ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) PYRENE	0.20	0.20 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.20 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.20 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	5.0 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	5.0 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHTHALATE	5.0	5.0 U	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4-DIOXANE	2.0	0.36 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	0.26 JB	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLORO BENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.059 JB	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.040 J	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	107	%
NITROBENZENE-d5	(45 - 135 %)	86	%
2-FLUOROBIPHENYL	(45 - 135 %)	74	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070208\AS048.D
 Acq On : 2 Jul 2008 3:38 pm
 Sample : 1113427 0.99
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 16:05:15 2008

Vial: 14
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	70966	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	262681	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	132444	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	305019	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	250356	1.00	ppm	-0.01
33) d12-Perylene	21.30	264	196463	1.00	ppm	-0.02

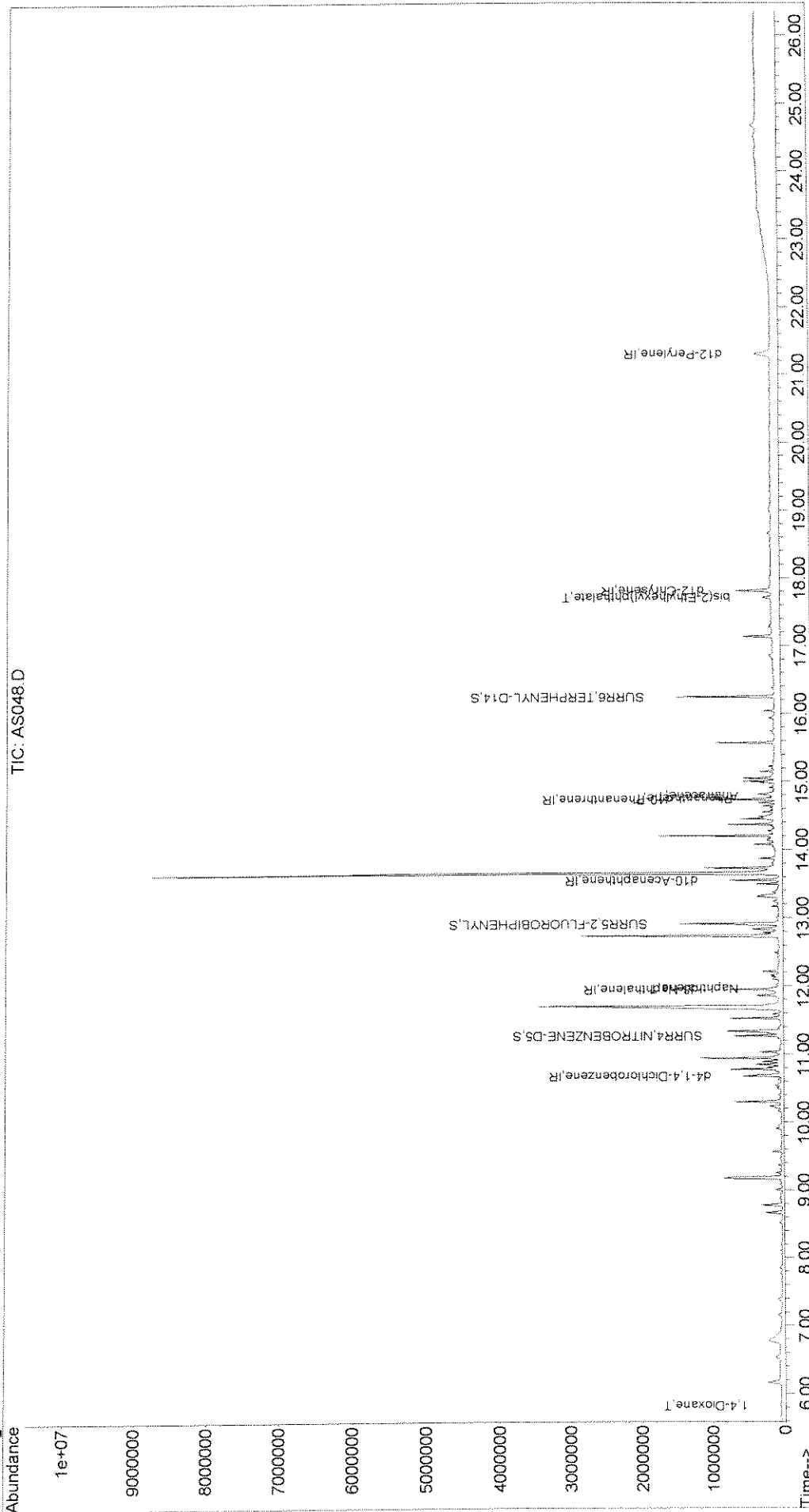
System Monitoring Compounds						
5) SURR4, NITROBENZENE-D5	11.27	82	256875	1.71	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	85.50%
11) SURR5, 2-FLUOROBIPHENYL	12.91	172	349985	1.47	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	73.50%
28) SURR6, TERPHENYL-D14	16.25	244	450399	2.13	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	106.50%

Target Compounds						Qvalue
2) 1,4-Dioxane	5.83	88	14464	0.36	ppm	89
7) Naphthalene	11.97	128	15307	0.06	ppm	88
20) Phenanthrene	14.76	178	13446	0.04	ppm	97
21) Anthracene	14.79	178	6653	0.02	ppm	89
30) bis(2-Ethylhexyl)phthalate	17.71	149	46368m	0.26	ppm	

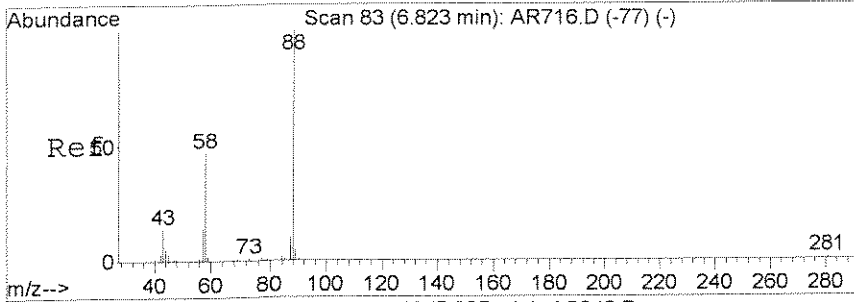
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS048.D
Acq On : 2 Jul 2008 3:38 pm Vial: 14
Sample : 1113427 0.99 Operator: J.Wu
Misc : 06/30/2008 1.0 ENSR 8270.NEVA Inst : 5973C
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: Jul 3 8:56 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration

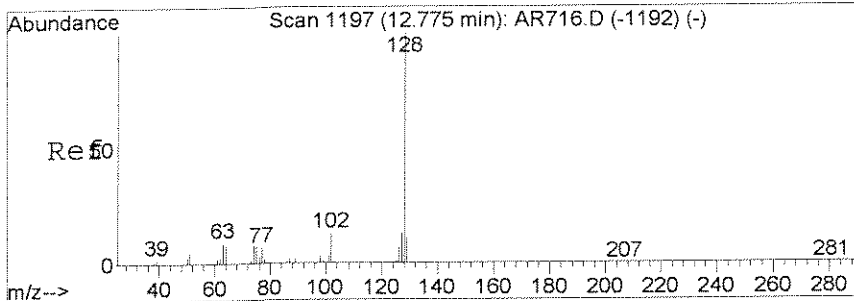
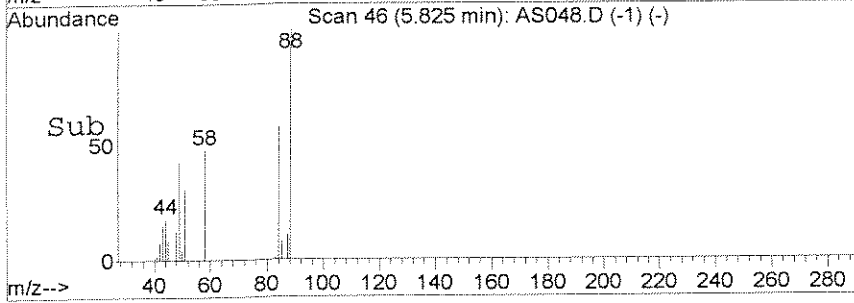
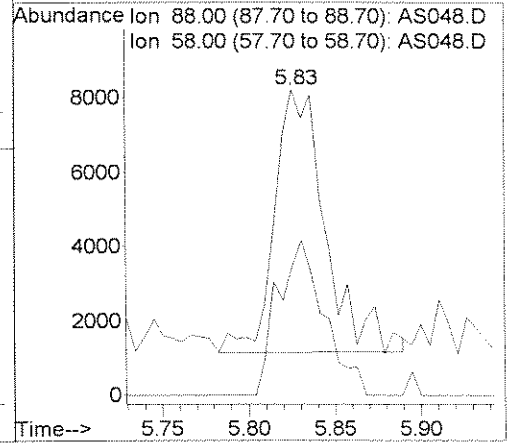
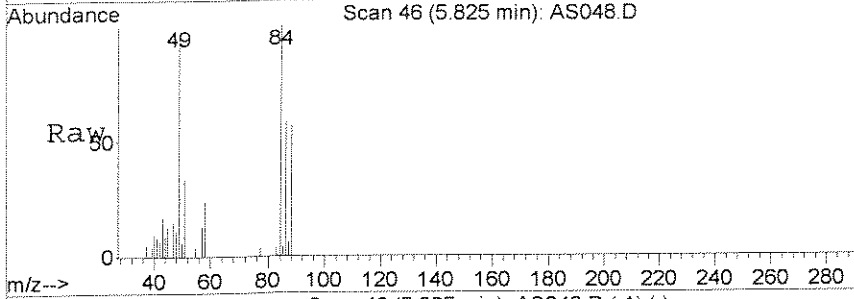


00814



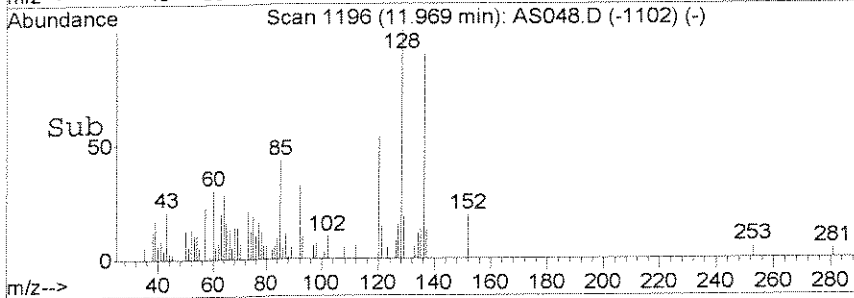
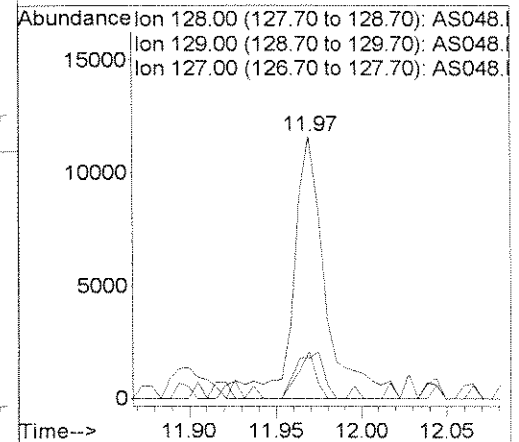
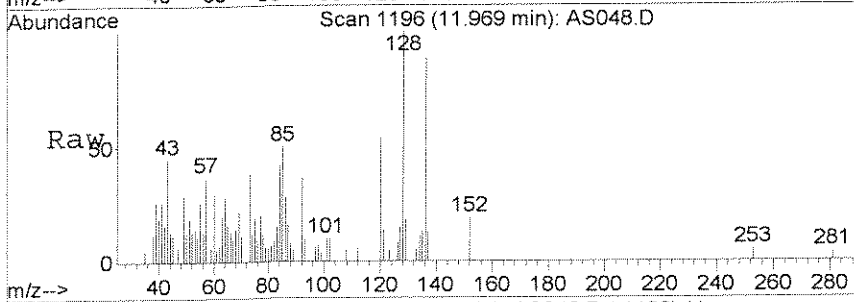
#2
 1,4-Dioxane
 Concen: 0.36 ppm
 RT: 5.83 min Scan# 46
 Delta R.T. 0.02 min
 Lab File: AS048.D
 Acq: 2 Jul 2008 3:38 pm

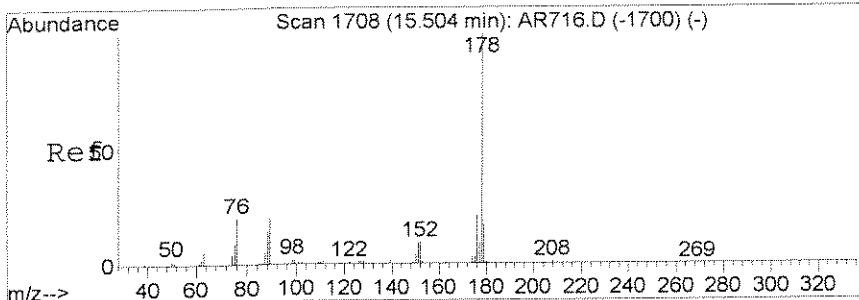
Tgt Ion	Resp	Lower	Upper
88	14464		
58	100	50.4	78.6



#7
 Naphthalene
 Concen: 0.06 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS048.D
 Acq: 2 Jul 2008 3:38 pm

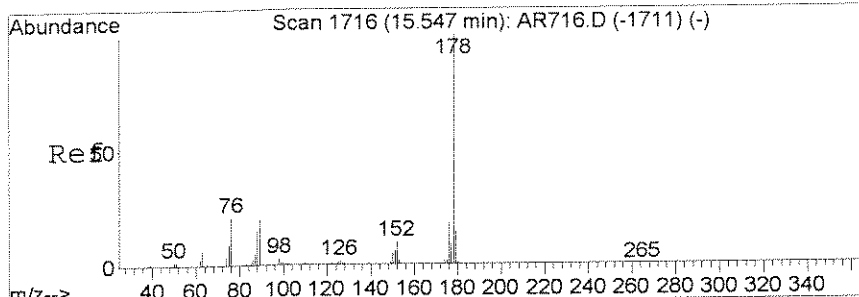
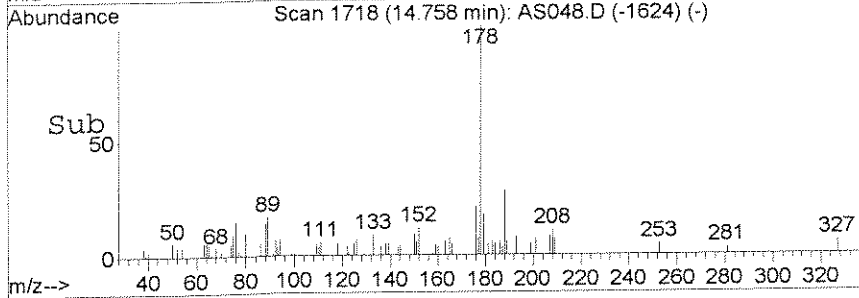
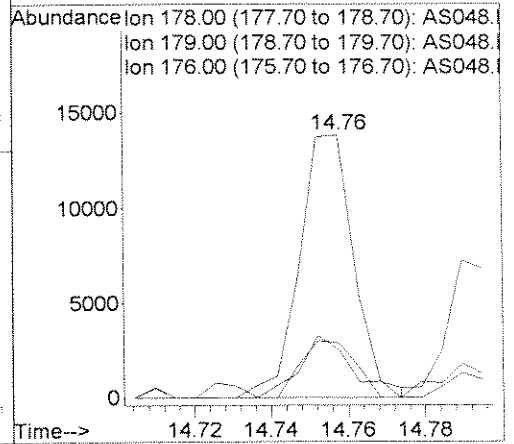
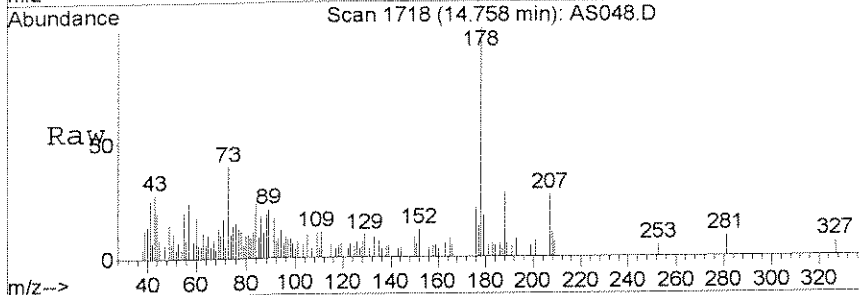
Tgt Ion	Resp	Lower	Upper
128	15307		
129	100	15.5	31.0
127	100	7.6	32.4





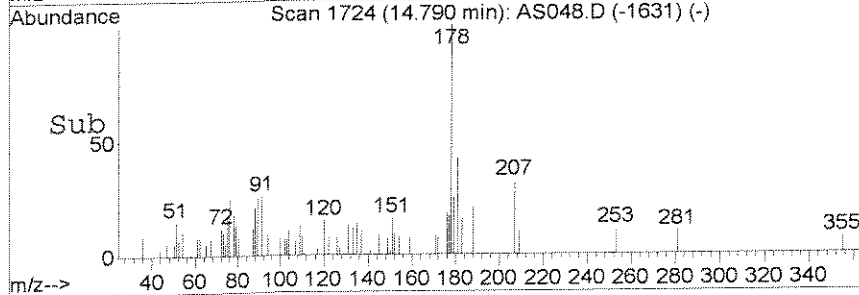
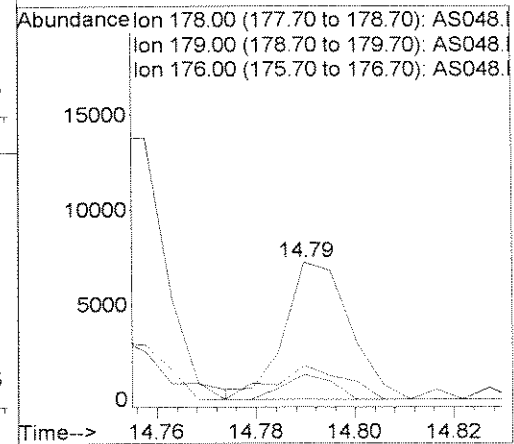
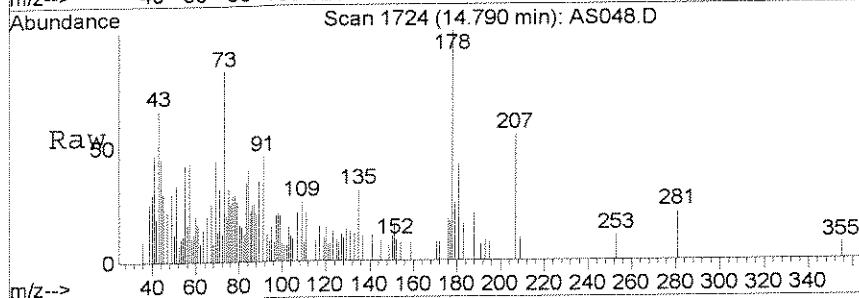
#20
 Phenanthrene
 Concen: 0.04 ppm
 RT: 14.76 min Scan# 1718
 Delta R.T. -0.00 min
 Lab File: AS048.D
 Acq: 2 Jul 2008 3:38 pm

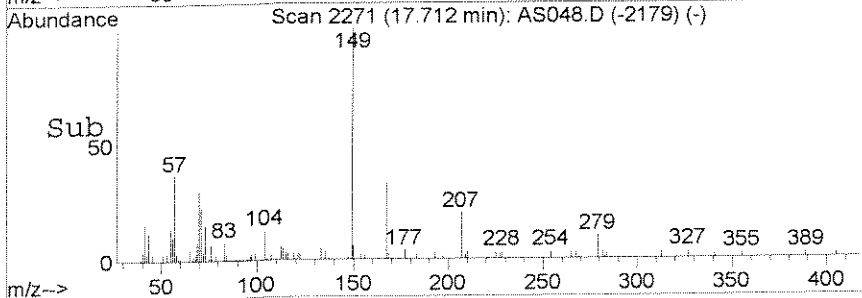
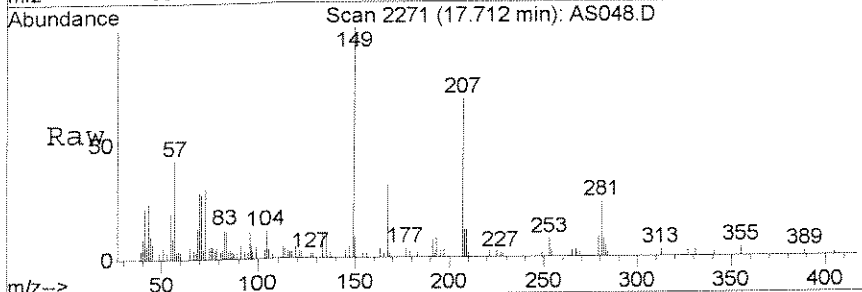
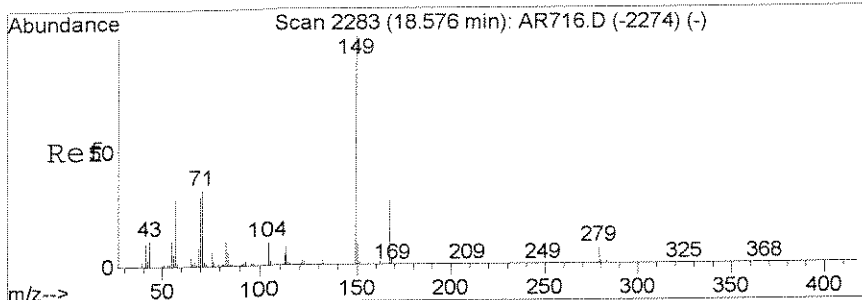
Tgt Ion	Resp	Lower	Upper
178	13446		
179	15.7	0.0	35.2
176	21.3	0.0	39.3



#21
 Anthracene
 Concen: 0.02 ppm
 RT: 14.79 min Scan# 1724
 Delta R.T. -0.01 min
 Lab File: AS048.D
 Acq: 2 Jul 2008 3:38 pm

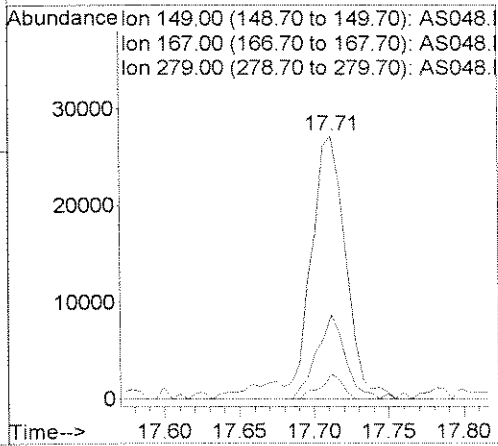
Tgt Ion	Resp	Lower	Upper
178	6653		
179	25.6	0.0	35.8
176	18.6	0.0	38.8





#30
 bis(2-Ethylhexyl)phthalate
 Concen: 0.26 ppm m
 RT: 17.71 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: AS048.D
 Acq: 2 Jul 2008 3:38 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
167	32.0	22.5	33.7
279	9.4	5.5	8.3#



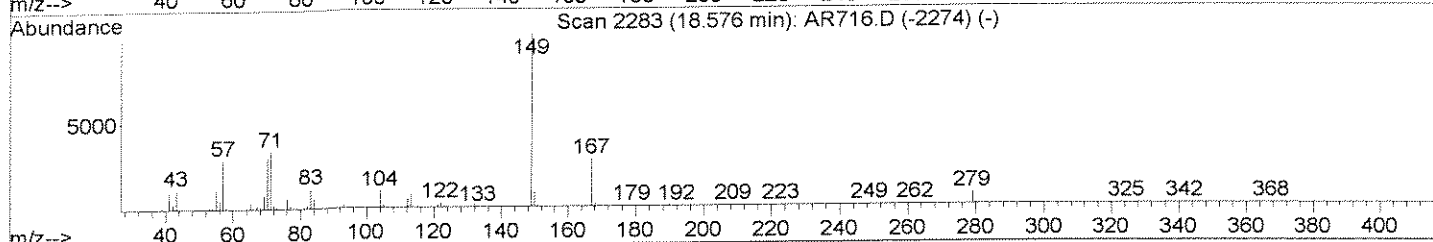
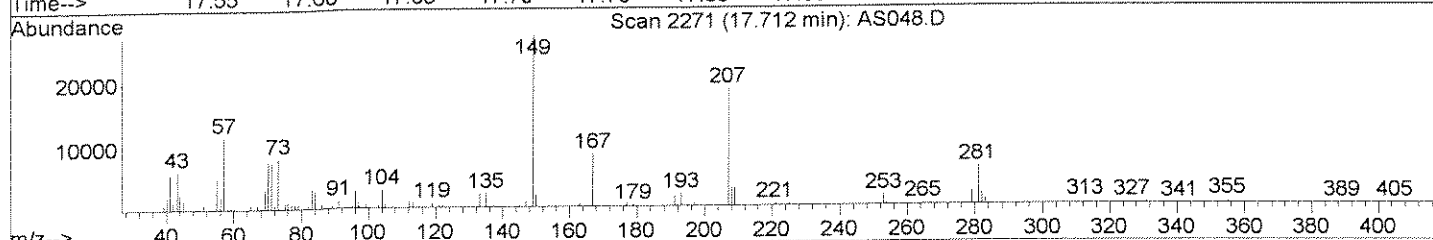
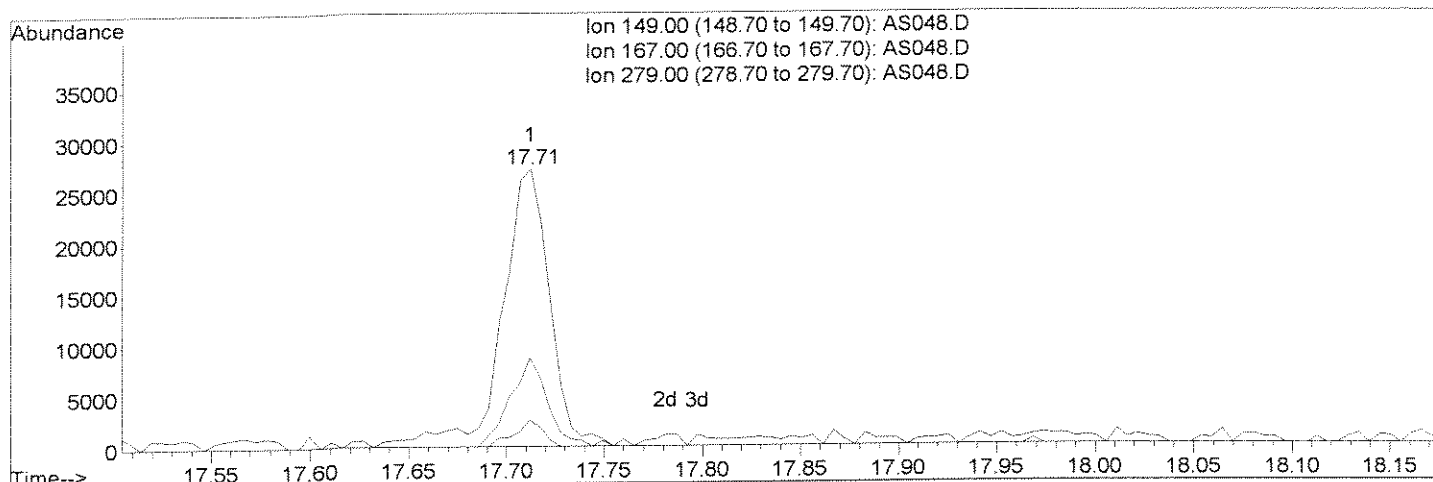
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS048.D
 Acq On : 2 Jul 2008 3:38 pm
 Sample : 1113427 0.99
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 8:55 2008

Vial: 14
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Single Level Calibration



(30) bis(2-Ethylhexyl)phthalate (T)

17.71min 0.26ppm

response 46368

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	31.95
279.00	6.90	9.43#
0.00	0.00	0.00

B

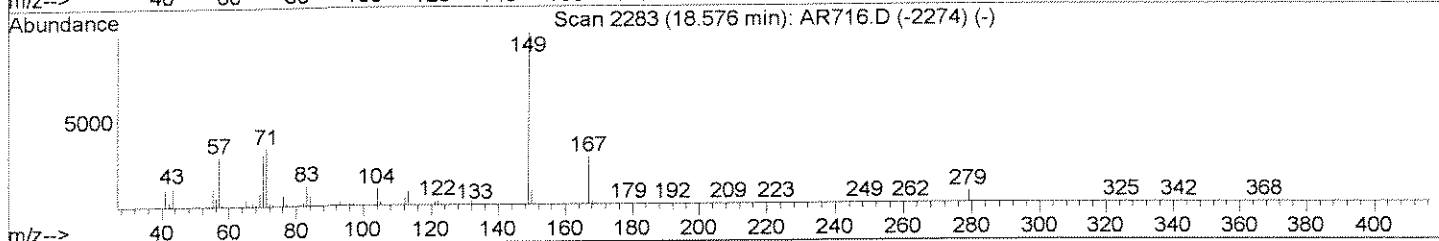
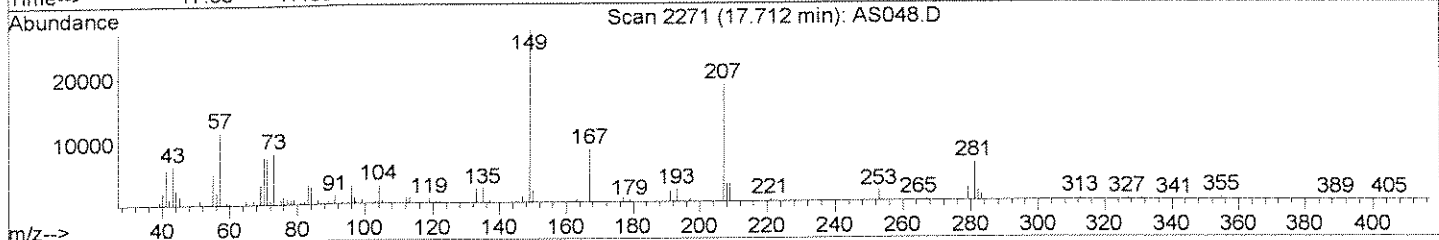
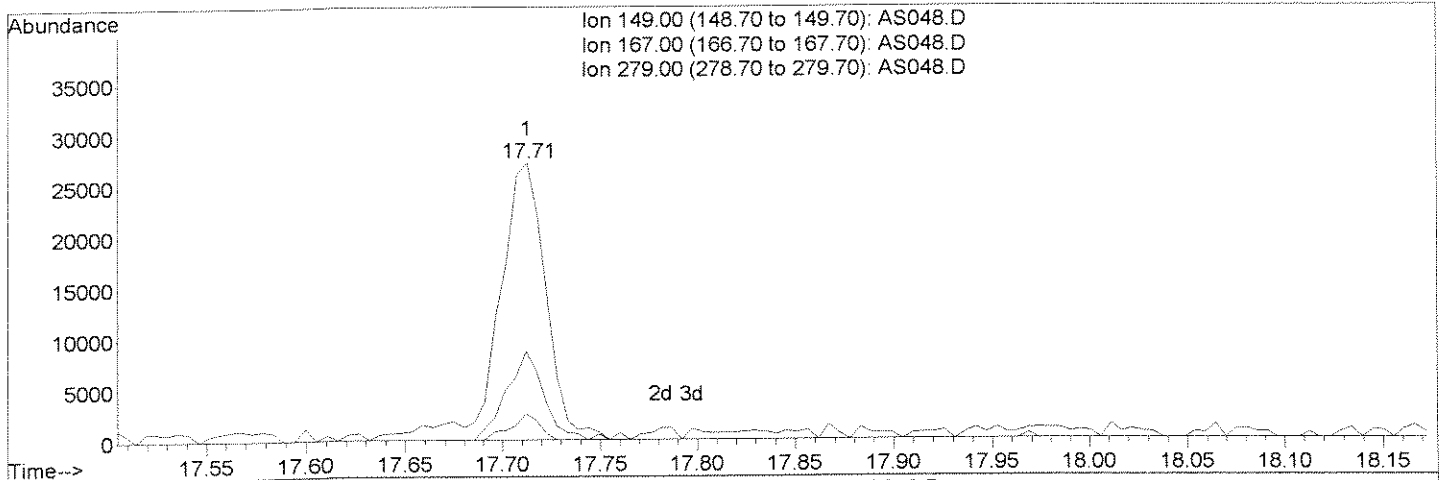
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS048.D
 Acq On : 2 Jul 2008 3:38 pm
 Sample : 1113427 0.99
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 8:56 2008

Vial: 14
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Single Level Calibration



TIC: AS048.D

(30) bis(2-Ethylhexyl)phthalate (T)

17.71min 0.26ppm m

response 46368

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	31.95
279.00	6.90	9.43#
0.00	0.00	0.00

A J 7/3
W/B

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-57AB

Date Sampled : 06/27/08 11:30 Order #: 1113428 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/30/08			
DATE ANALYZED : 07/02/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) PYRENE	0.20	0.20 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.20 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.20 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	5.0 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	5.0 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHTHALATE	5.0	5.0 U	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4-DIOXANE	2.0	0.31 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	2.8 J	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLOROBENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.040 JB	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.070 J	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	104	%
NITROBENZENE-d5	(45 - 135 %)	87	%
2-FLUOROBIPHENYL	(45 - 135 %)	74	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS049.D
 Acq On : 2 Jul 2008 4:14 pm
 Sample : 1113428 1.0
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 16:41:03 2008

Vial: 15
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	77829	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	282016	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	131705	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	325268	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	272397	1.00	ppm	-0.01
33) d12-Perylene	21.30	264	24566 ↓	1.00	ppm	-0.02

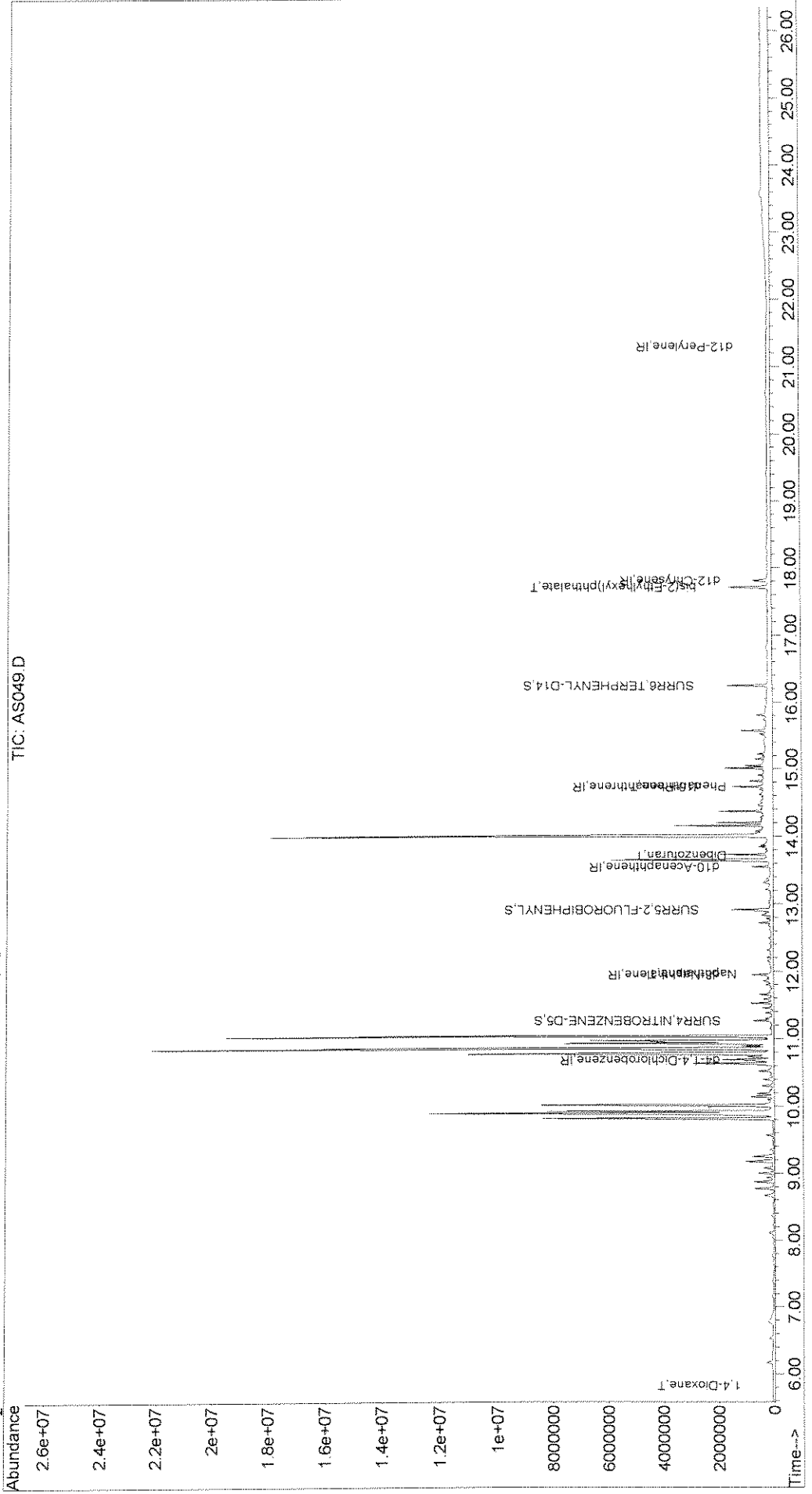
System Monitoring Compounds	R.T.	QI on	Response	Conc	Units	Dev (Min)
5) SURR4, NITROBENZENE-D5	11.27	82	280768	1.74	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	87.00%		
11) SURR5, 2-FLUOROBIPHENYL	12.91	172	349680	1.48	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	74.00%		
28) SURR6, TERPHENYL-D14	16.25	244	477565	2.07	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	103.50%		

Target Compounds	R.T.	QI on	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	14004m	0.31	ppm	93
7) Naphthalene	11.97	128	11818	0.04	ppm	79
15) Dibenzofuran	13.72	168	8175	0.24	ppm	96
20) Phenanthrene	14.75	178	22972	0.07	ppm	95
30) bis(2-Ethylhexyl)phthalate	17.71	149	553808	2.81	ppm	95

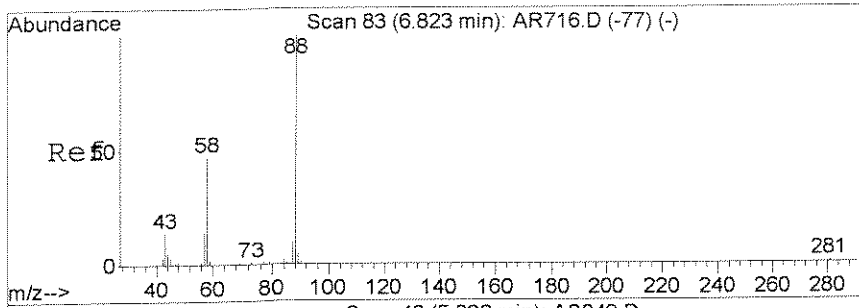
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS049.D Vial: 15
 Acq On : 2 Jul 2008 4:14 pm Operator: J.Wu
 Sample : 1113428 1.0 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 8:59 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

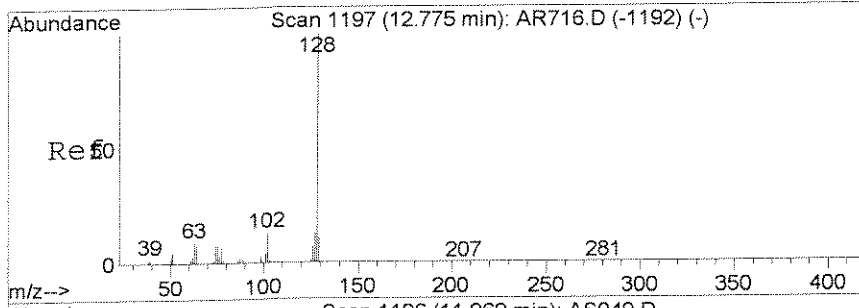
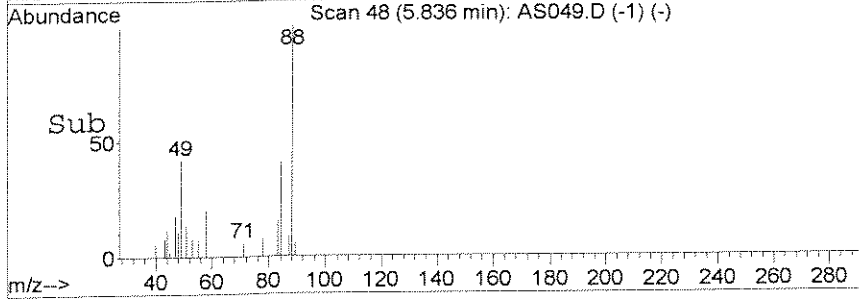
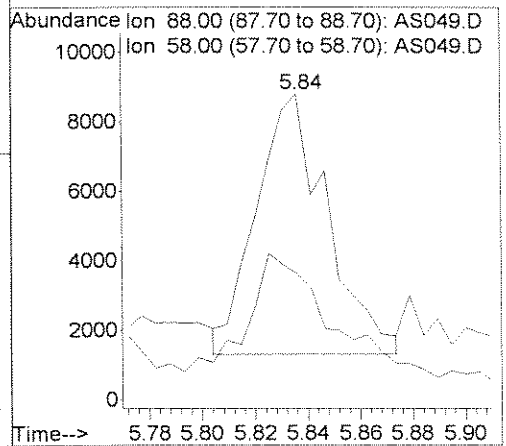
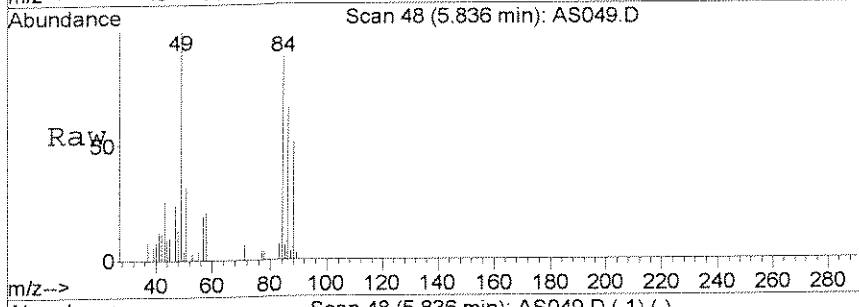


00822



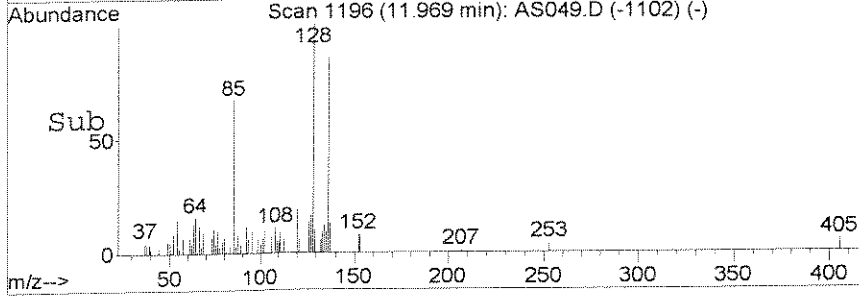
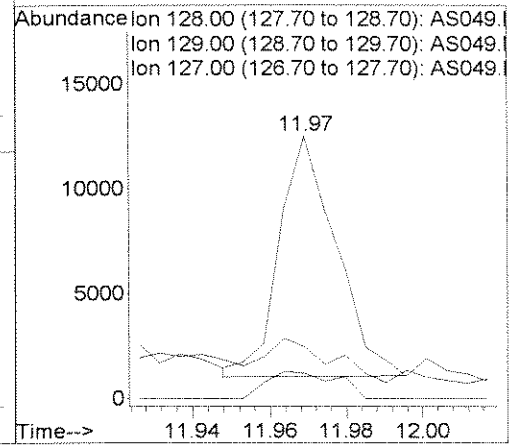
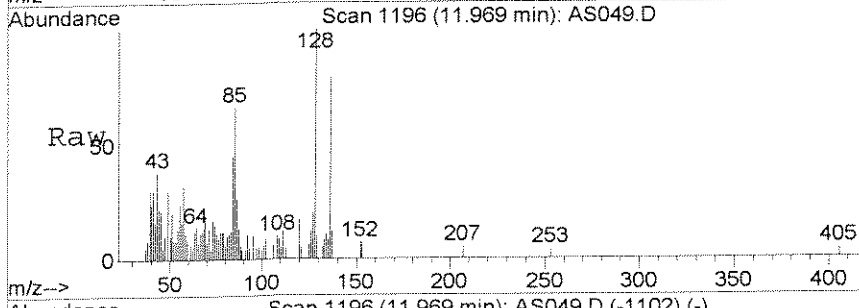
#2
 1,4-Dioxane
 Concen: 0.31 ppm m
 RT: 5.84 min Scan# 48
 Delta R.T. 0.03 min
 Lab File: AS049.D
 Acq: 2 Jul 2008 4:14 pm

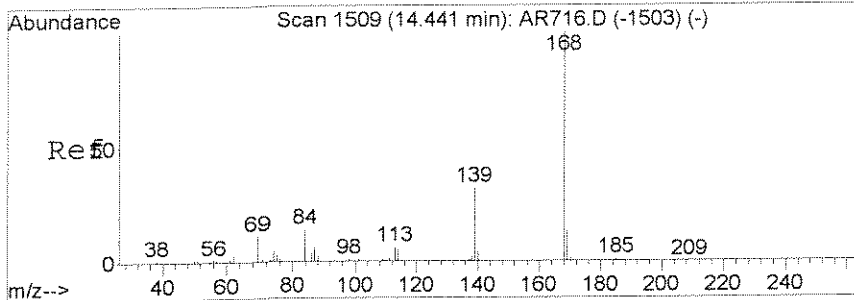
Tgt Ion	Resp	Lower	Upper
88	14004		
58	41.2	38.6	78.6



#7
 Naphthalene
 Concen: 0.04 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS049.D
 Acq: 2 Jul 2008 4:14 pm

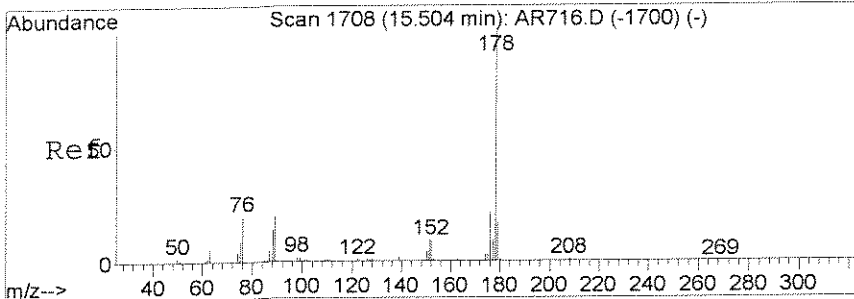
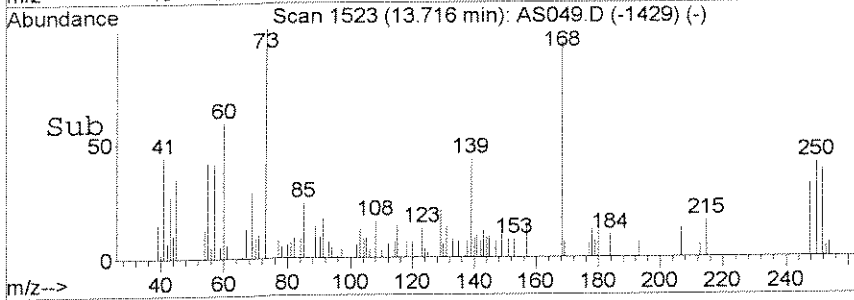
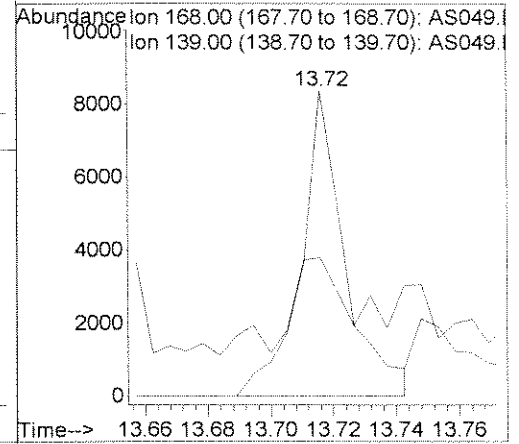
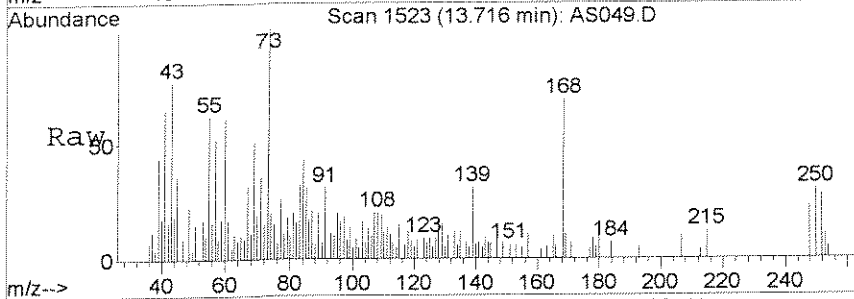
Tgt Ion	Resp	Lower	Upper
128	11818		
129	10.7	0.0	31.0
127	7.6	0.0	32.4





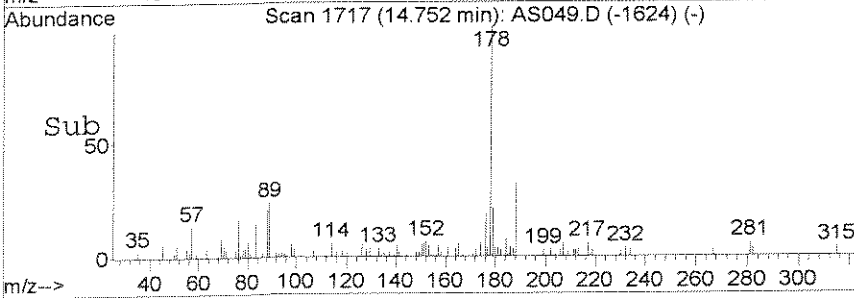
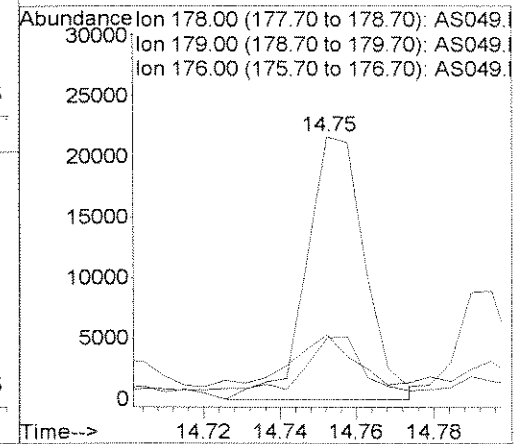
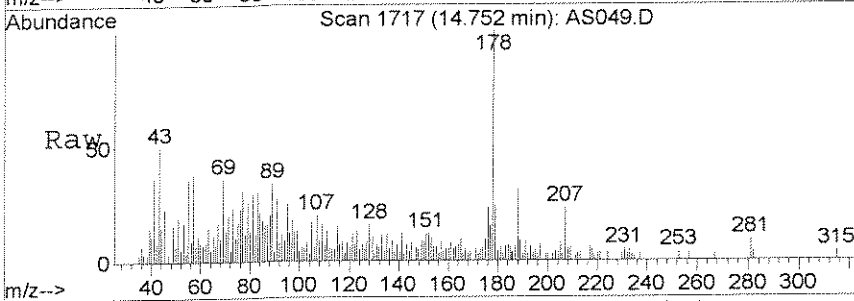
#15
 Dibenzofuran
 Concen: 0.24 ppm
 RT: 13.72 min Scan# 1523
 Delta R.T. 0.00 min
 Lab File: AS049.D
 Acq: 2 Jul 2008 4:14 pm

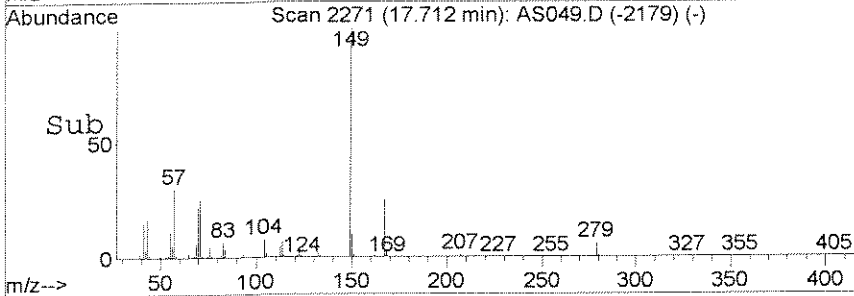
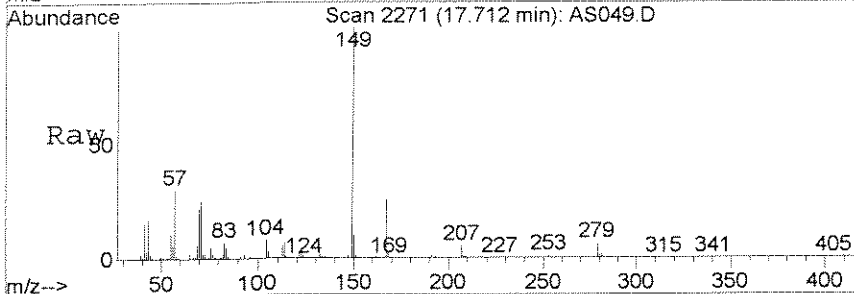
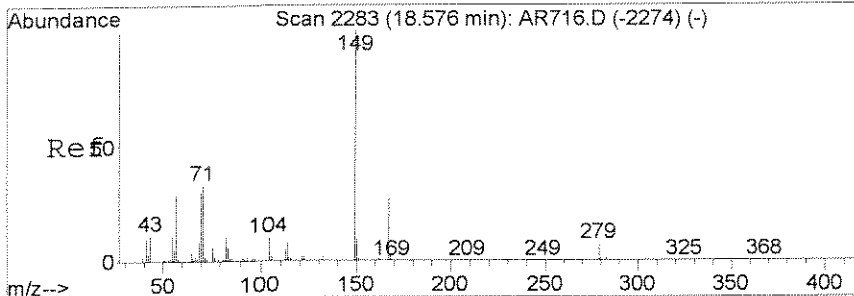
Tgt Ion	Resp	Lower	Upper
168	100		
139	21.6	13.7	53.7



#20
 Phenanthrene
 Concen: 0.07 ppm
 RT: 14.75 min Scan# 1717
 Delta R.T. -0.01 min
 Lab File: AS049.D
 Acq: 2 Jul 2008 4:14 pm

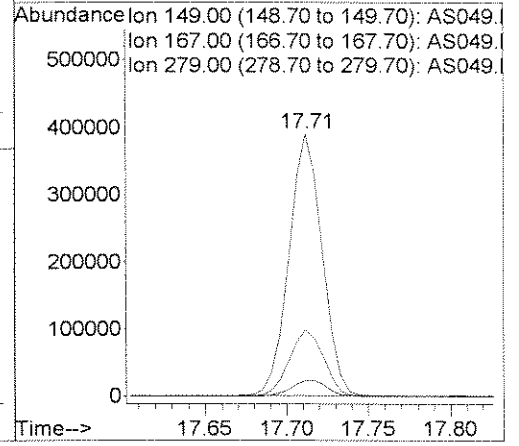
Tgt Ion	Resp	Lower	Upper
178	100		
179	18.1	0.0	35.2
176	20.2	0.0	39.3





#30
 bis(2-Ethylhexyl)phthalate
 Concen: 2.81 ppm
 RT: 17.71 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: AS049.D
 Acq: 2 Jul 2008 4:14 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.4	22.5	33.7
279	5.9	5.5	8.3



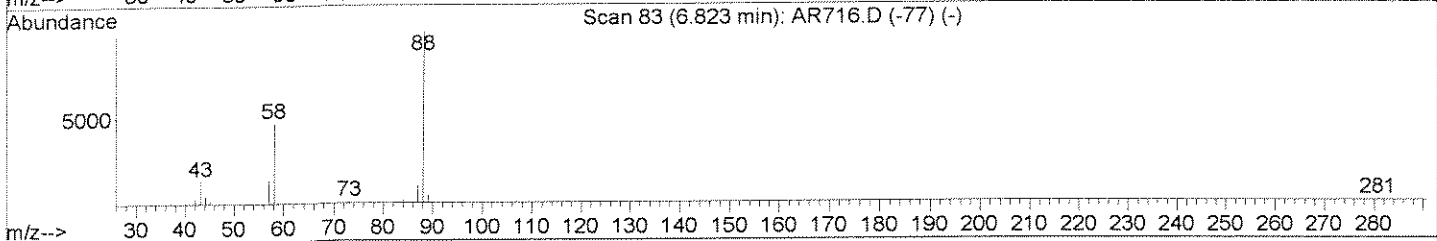
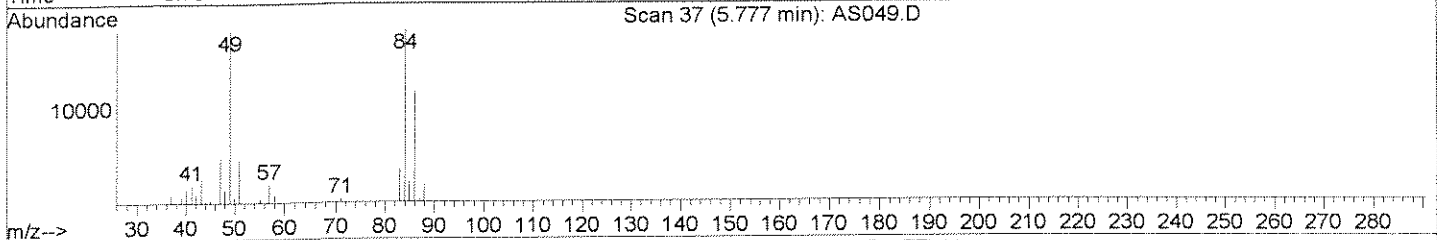
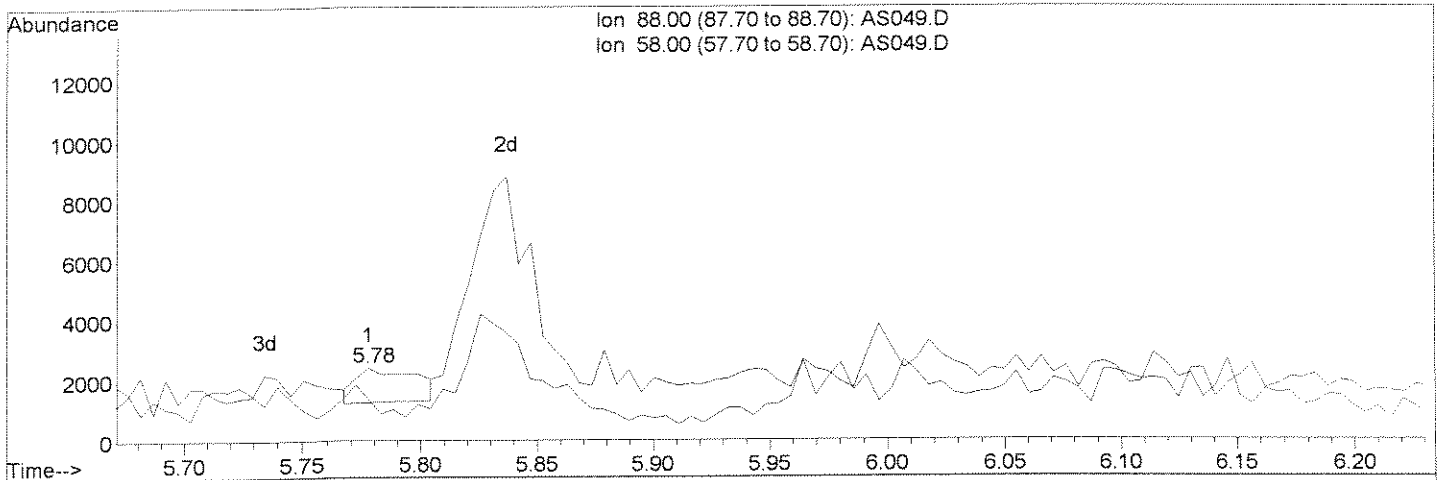
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS049.D
 Acq On : 2 Jul 2008 4:14 pm
 Sample : 1113428 1.0
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 16:41 2008

Vial: 15
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)

5.78min 0.05ppm

response 2027

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	28.86#
0.00	0.00	0.00
0.00	0.00	0.00

B

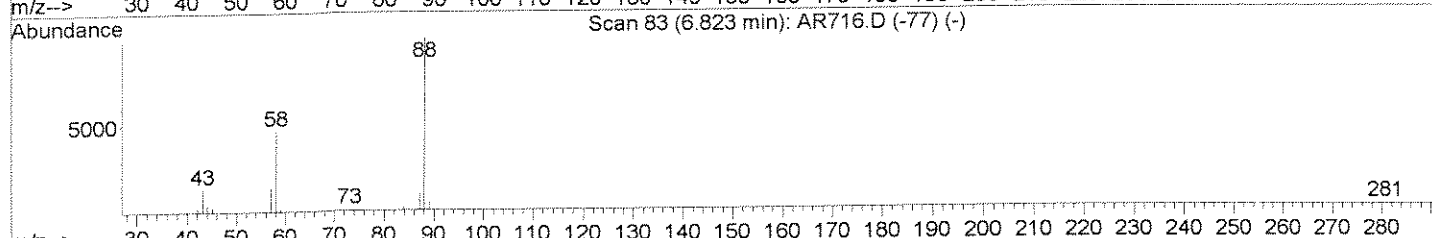
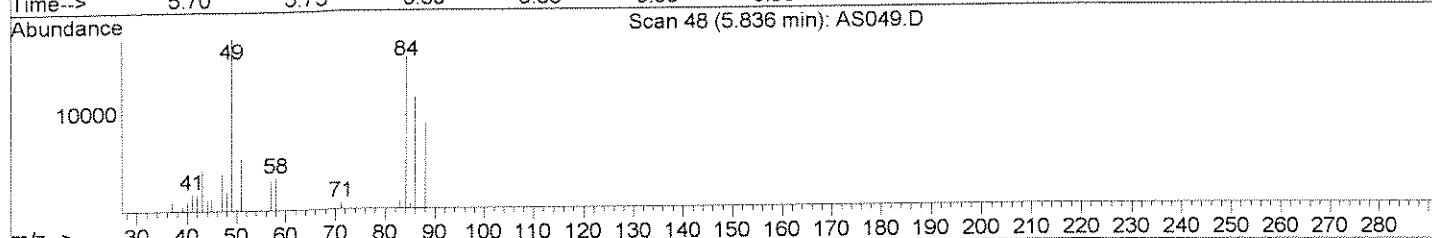
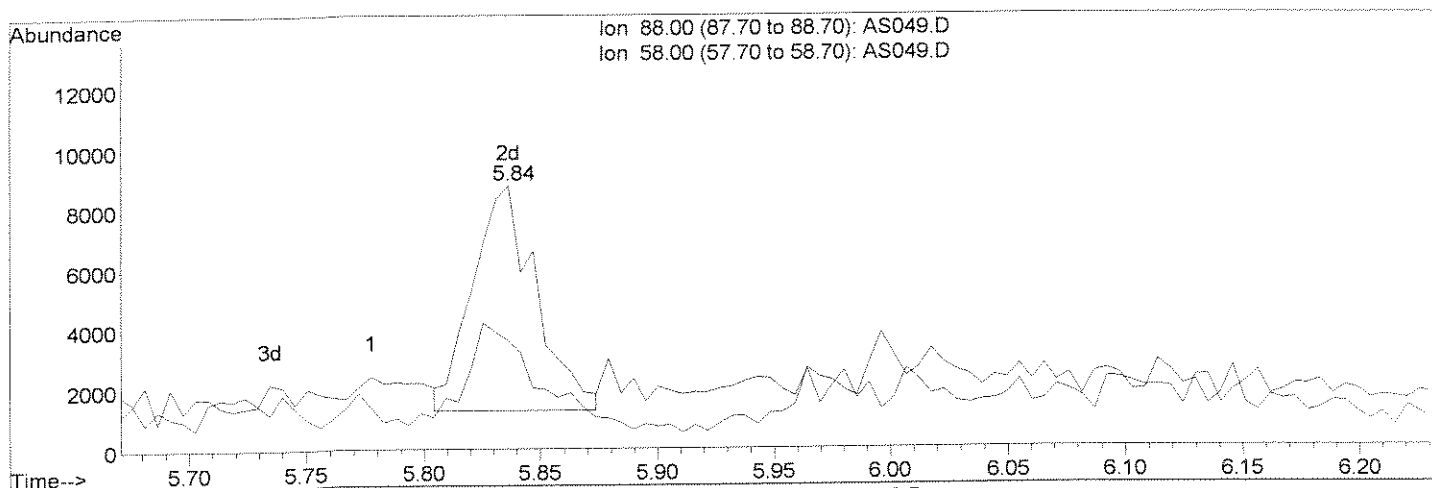
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS049.D
 Acq On : 2 Jul 2008 4:14 pm
 Sample : 1113428 1.0
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 8:57 2008

Vial: 15
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



TIC: AS049.D

(2) 1,4-Dioxane (T)
 5.84min 0.31ppm m
 response 14004

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	41.16
0.00	0.00	0.00
0.00	0.00	0.00

AW 7/3
7/3

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-57AB

Date Sampled : 06/27/08 11:30 Order #: 1113428 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.030 J	UG/L
BENZO (A) ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) PYRENE	0.20	0.20 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.20 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.20 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	5.0 U	UG/L
DI - N - BUTYLPHTHALATE	5.0	5.0 U	UG/L
INDENO (1, 2, 3 - CD) PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHTHALATE	5.0	5.0 U	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4 - DIOXANE	2.0	0.28 J	UG/L
BIS (2 - ETHYLHEXYL) PHTHALATE	5.0	2.7 J	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLOROBENZENE	0.20	0.20 U	UG/L
2 - METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.040 JB	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI - N - OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.070 J	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL - d14	(45 - 135 %)	105	%
NITROBENZENE - d5	(45 - 135 %)	87	%
2 - FLUOROBIPHENYL	(45 - 135 %)	73	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070308\AS062.D Vial: 2
 Acq On : 3 Jul 2008 12:00 pm Operator: J.Wu
 Sample : 1113428 1.0 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Re Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 03 12:26:55 2008 Quant Results File: LVI0626.RES

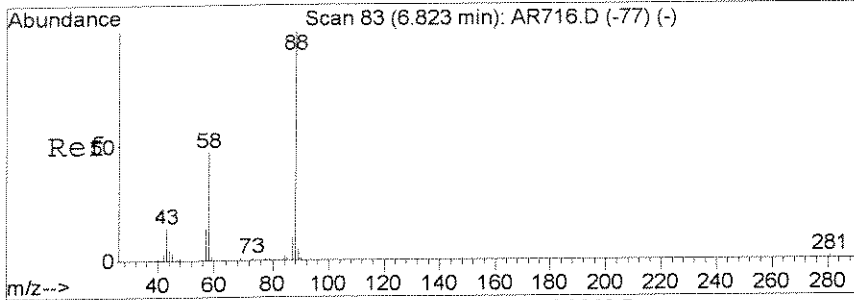
Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	83842	1.00	ppm	-0.01
4) d8-Naphthalene	11.94	136	305054	1.00	ppm	-0.01
10) d10-Acenaphthene	13.54	164	147498	1.00	ppm	-0.01
18) d10-Phenanthrene	14.73	188	345584	1.00	ppm	-0.01
26) d12-Chrysene	17.79	240	293542	1.00	ppm	-0.03
33) d12-Perylene	21.29	264	1051	1.00	ppm	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.26	82	304389	1.74	ppm	-0.01
Spiked Amount 2.000	Range 22 - 124		Recovery	=	87.00%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	386541	1.46	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery	=	73.00%	
28) SURR6,TERPHENYL-D14	16.24	244	521405	2.10	ppm	-0.02
Spiked Amount 2.000	Range 23 - 139		Recovery	=	105.00%	

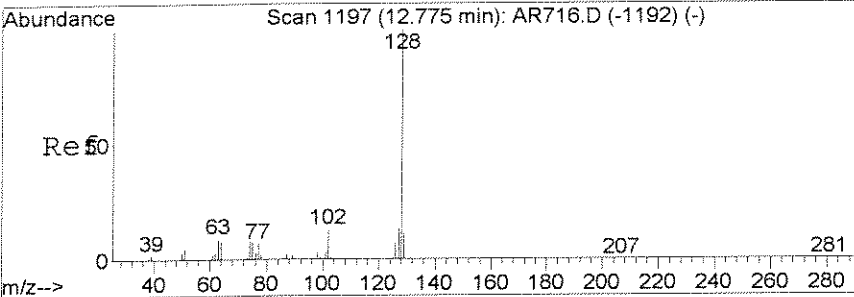
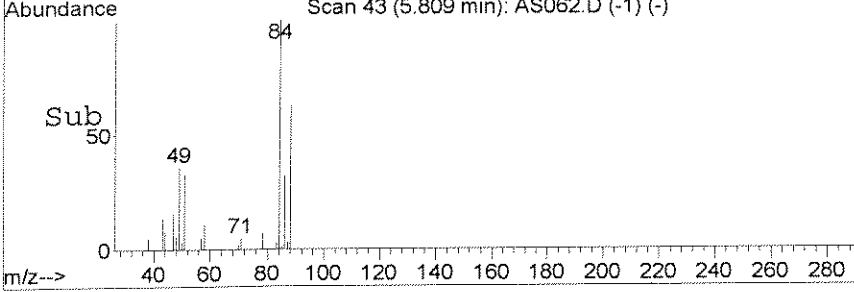
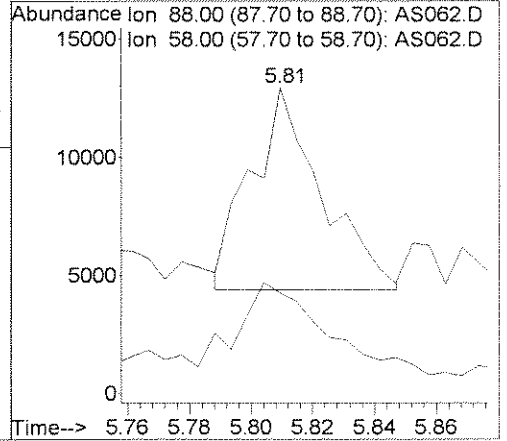
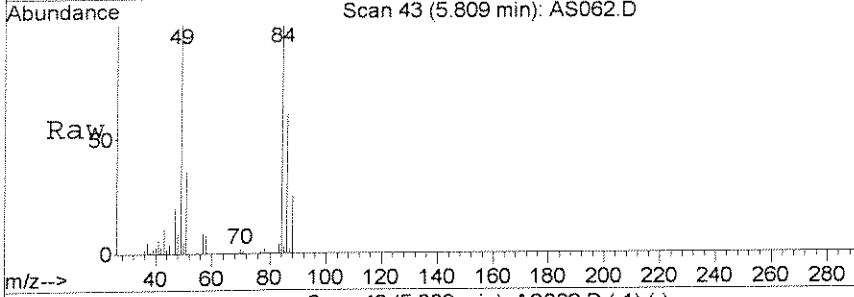
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.81	88	13566m _{fw}	0.28	ppm	
7) Naphthalene	11.96	128	12427	0.04	ppm	91
15) Dibenzofuran	13.71	168	10118	0.24	ppm	68
20) Phenanthrene	14.75	178	24963	0.07	ppm	94
21) Anthracene	14.78	178	8658	0.03	ppm	80
30) bis(2-Ethylhexyl)phthalate	17.70	149	580589m _{fw}	2.73	ppm	

00828



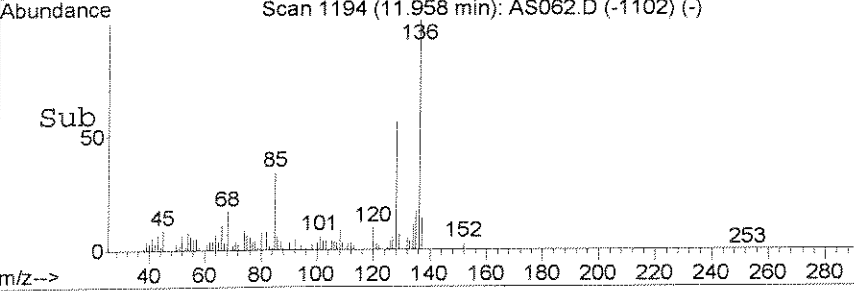
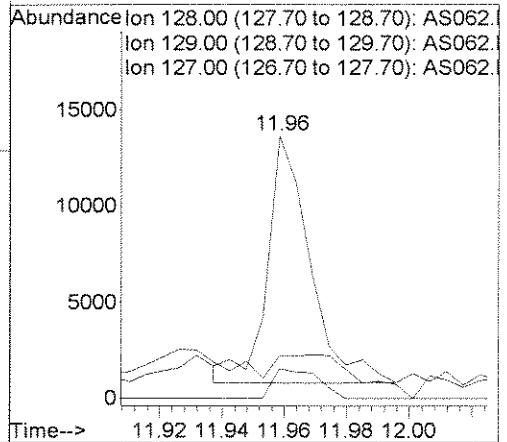
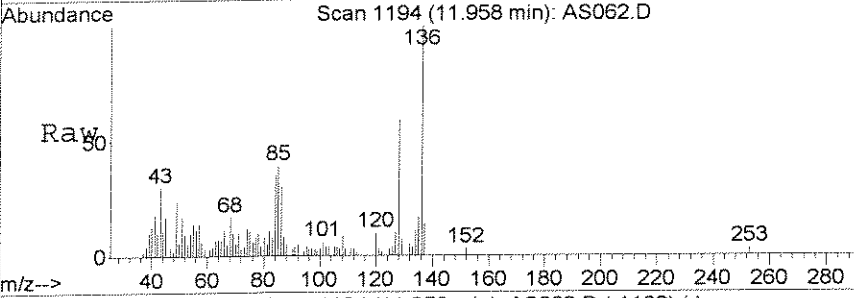
#2
 1,4-Dioxane
 Concen: 0.28 ppm m
 RT: 5.81 min Scan# 43
 Delta R.T. 0.01 min
 Lab File: AS062.D
 Acq: 3 Jul 2008 12:00 pm

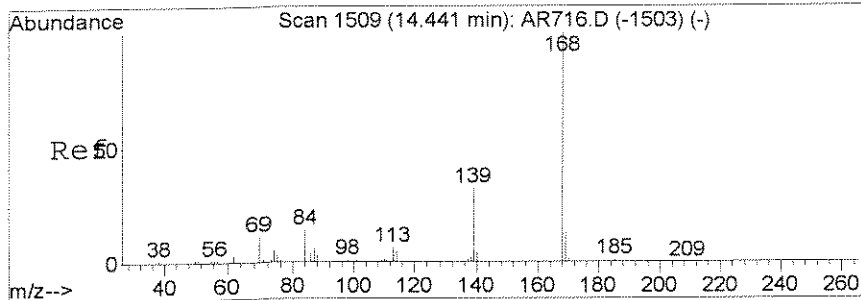
Tgt Ion	Resp	Lower	Upper
88	13566	100	
58	33.0	38.6	78.6#



#7
 Naphthalene
 Concen: 0.04 ppm
 RT: 11.96 min Scan# 1194
 Delta R.T. -0.01 min
 Lab File: AS062.D
 Acq: 3 Jul 2008 12:00 pm

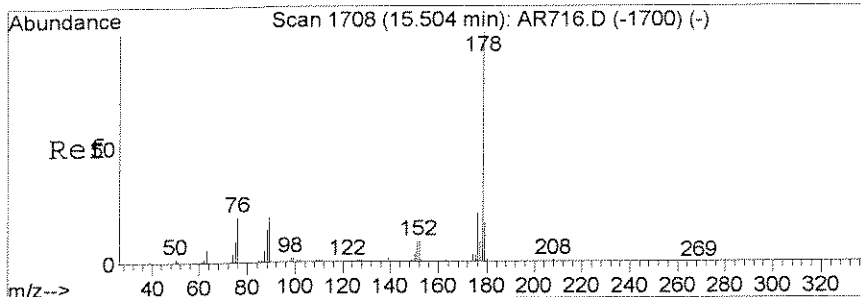
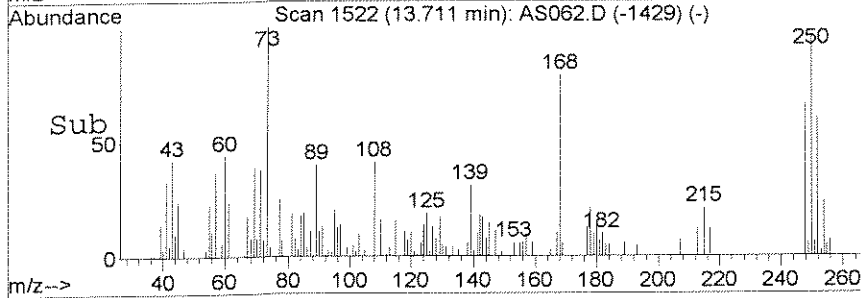
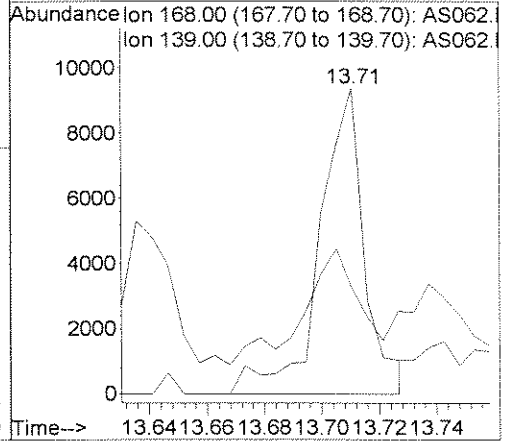
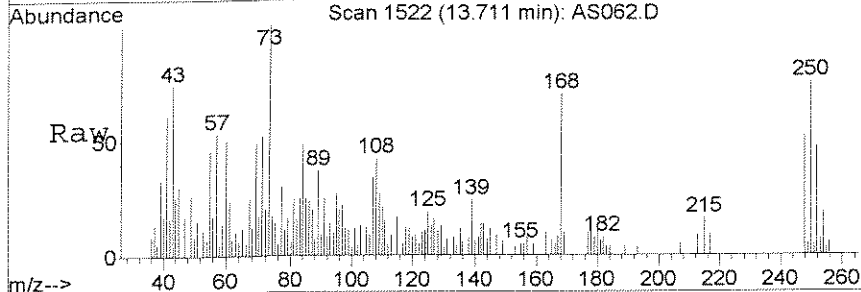
Tgt Ion	Resp	Lower	Upper
128	12427	100	
129	12.3	0.0	31.0
127	7.2	0.0	32.4





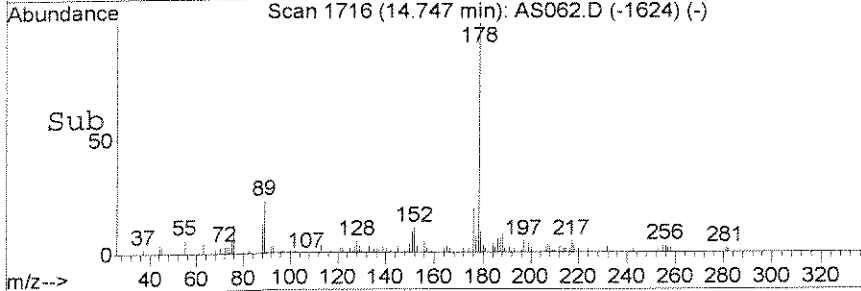
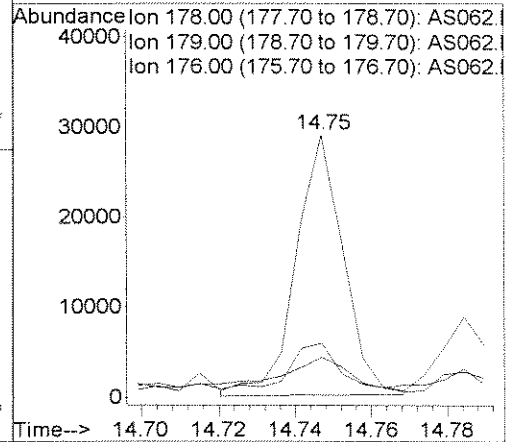
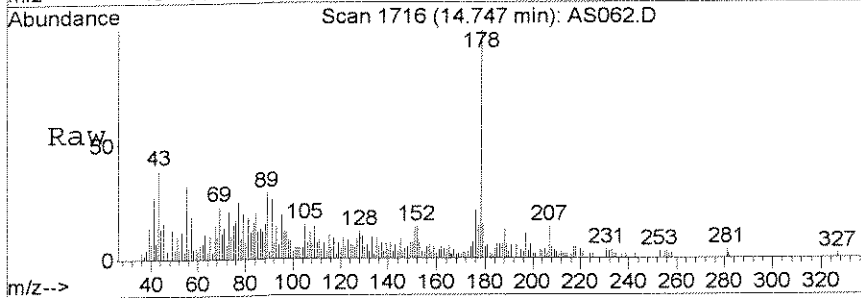
#15
 Dibenzofuran
 Concen: 0.24 ppm
 RT: 13.71 min Scan# 1522
 Delta R.T. -0.00 min
 Lab File: AS062.D
 Acq: 3 Jul 2008 12:00 pm

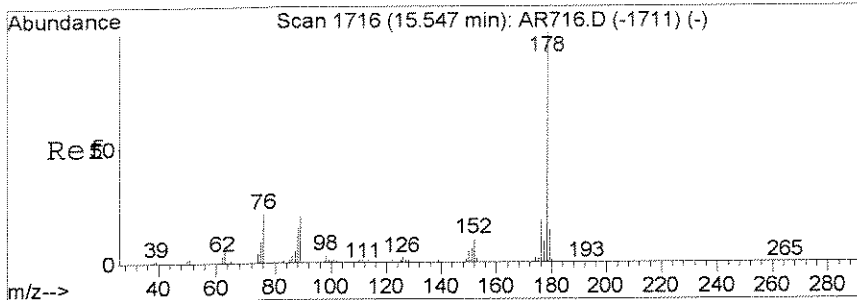
Tgt Ion	Resp	Lower	Upper
168	10118		
139	15.6	13.7	53.7



#20
 Phenanthrene
 Concen: 0.07 ppm
 RT: 14.75 min Scan# 1716
 Delta R.T. -0.01 min
 Lab File: AS062.D
 Acq: 3 Jul 2008 12:00 pm

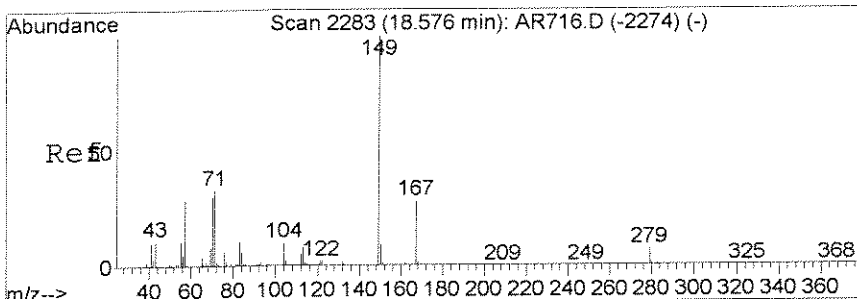
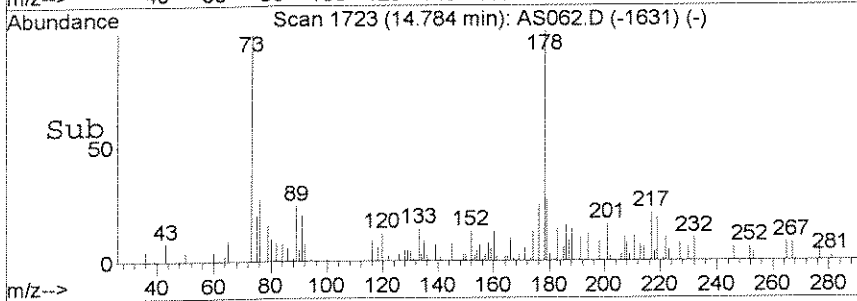
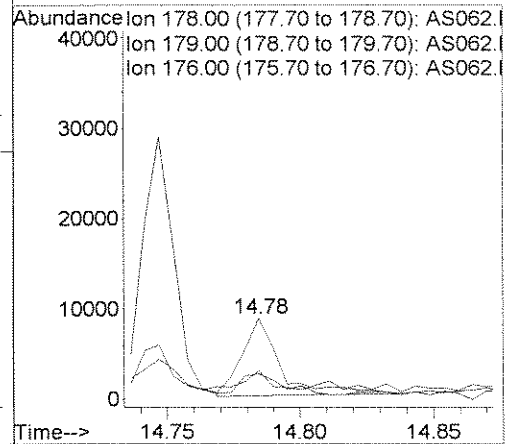
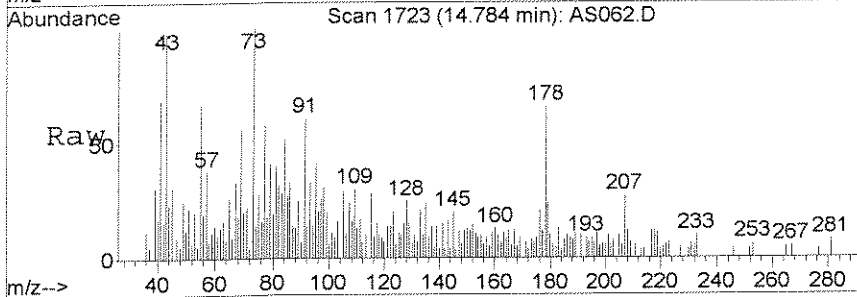
Tgt Ion	Resp	Lower	Upper
178	24963		
179	10.6	0.0	35.2
176	18.4	0.0	39.3





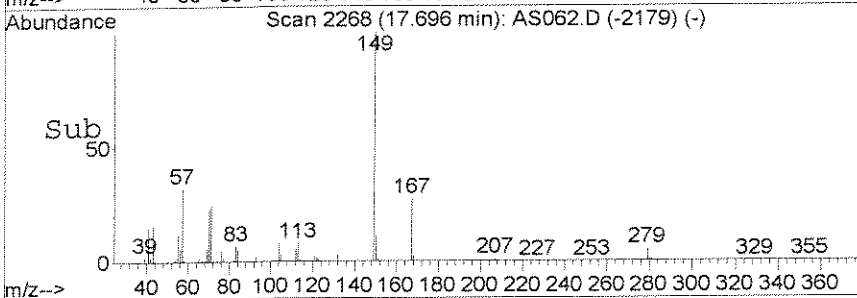
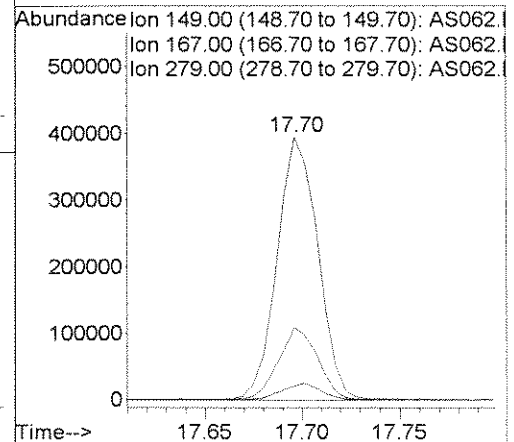
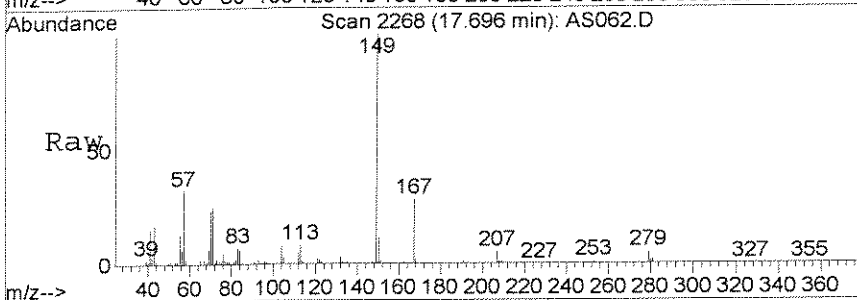
#21
 Anthracene
 Concen: 0.03 ppm
 RT: 14.78 min Scan# 1723
 Delta R.T. -0.01 min
 Lab File: AS062.D
 Acq: 3 Jul 2008 12:00 pm

Tgt Ion	Resp	Lower	Upper
178	100		
179	25.1	0.0	35.8
176	27.3	0.0	38.8



#30
 bis(2-Ethylhexyl)phthalate
 Concen: 2.73 ppm m
 RT: 17.70 min Scan# 2268
 Delta R.T. -0.03 min
 Lab File: AS062.D
 Acq: 3 Jul 2008 12:00 pm

Tgt Ion	Resp	Lower	Upper
149	100		
167	27.5	22.5	33.7
279	5.3	5.5	8.3#



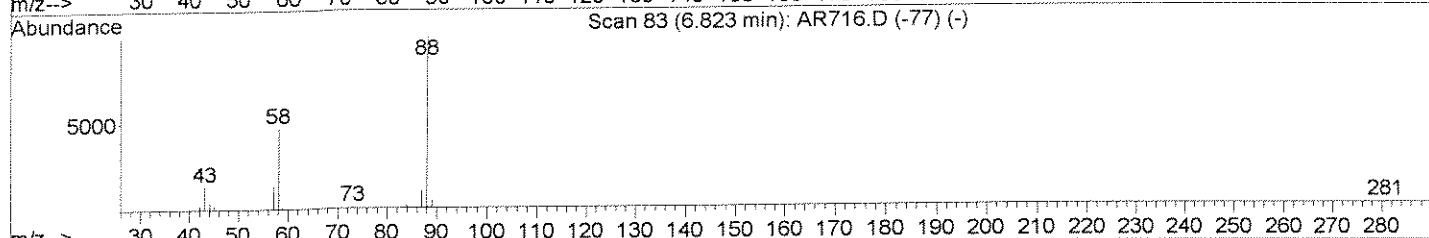
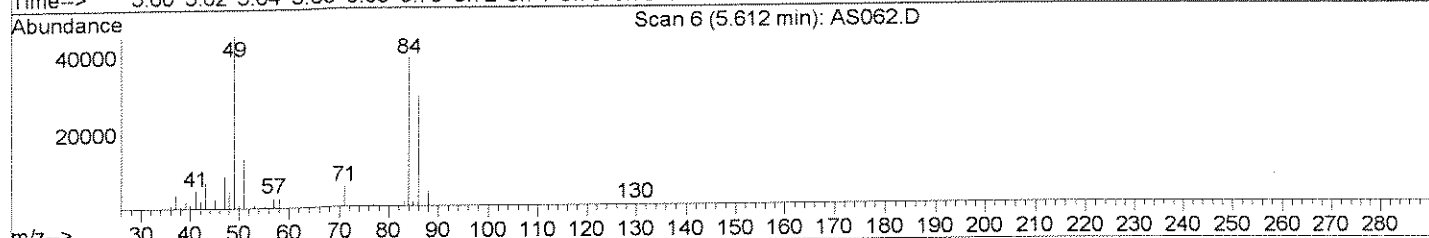
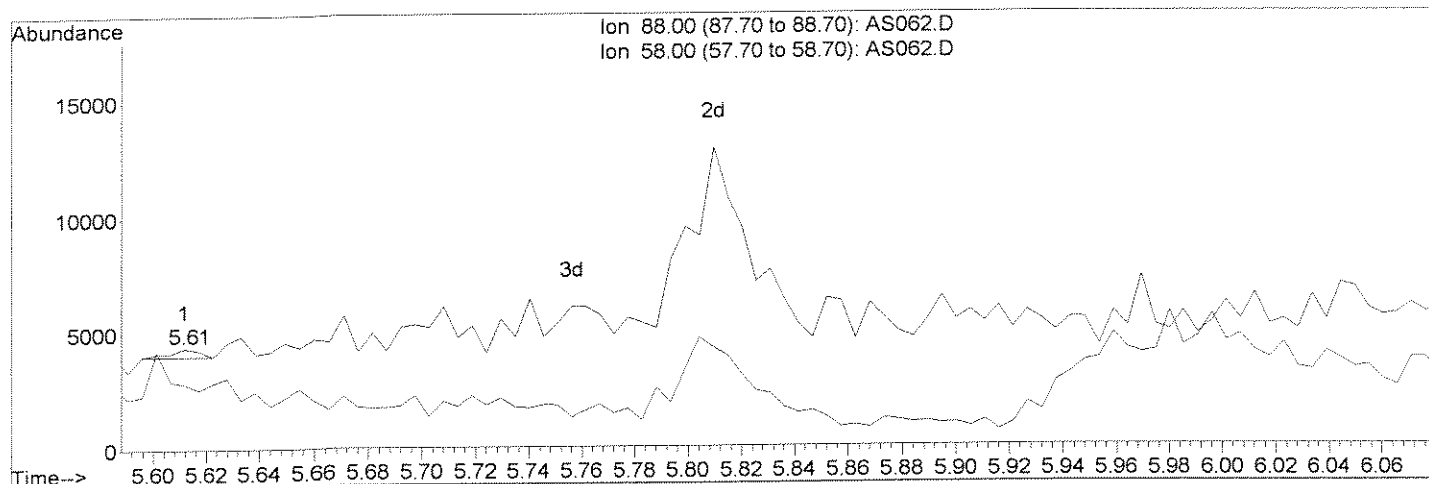
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070308\AS062.D
 Acq On : 3 Jul 2008 12:00 pm
 Sample : 1113428 1.0
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Re
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 12:30 2008

Vial: 2
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)

5.61min 0.01ppm

response 282

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	68.33
0.00	0.00	0.00
0.00	0.00	0.00

B

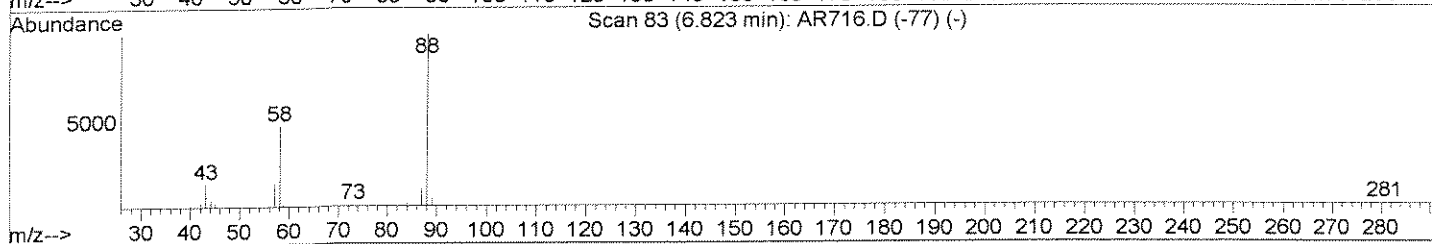
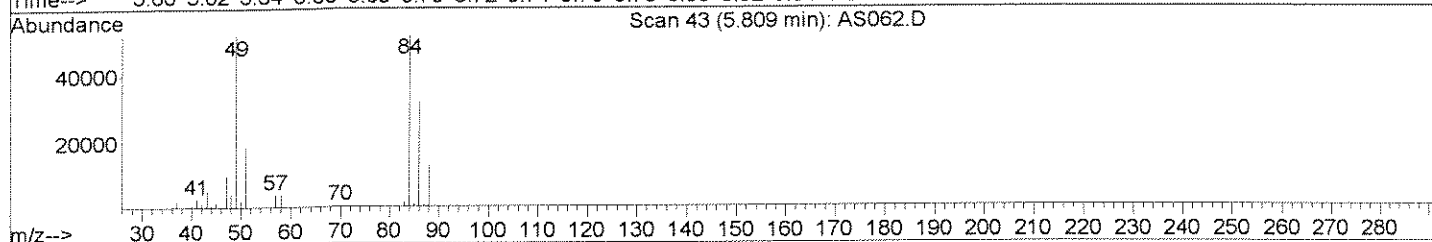
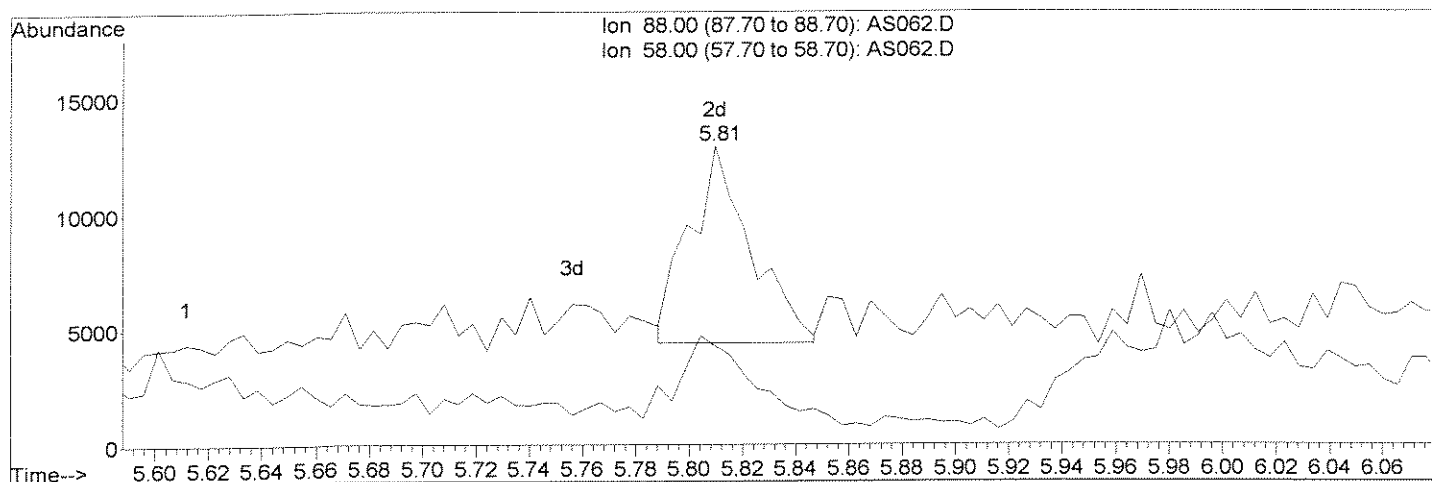
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070308\AS062.D
 Acq On : 3 Jul 2008 12:00 pm
 Sample : 1113428 1.0
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Re
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 12:31 2008

Vial: 2
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)

5.81min 0.28ppm m

response 13566

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	33.01#
0.00	0.00	0.00
0.00	0.00	0.00

Handwritten notes: A 77
 10/17

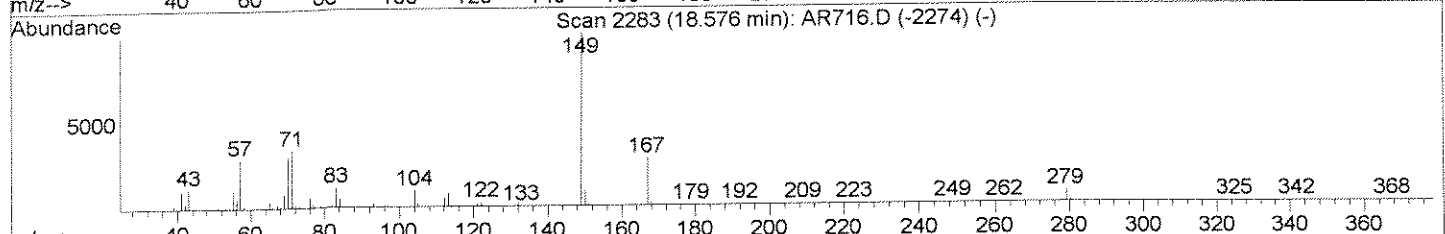
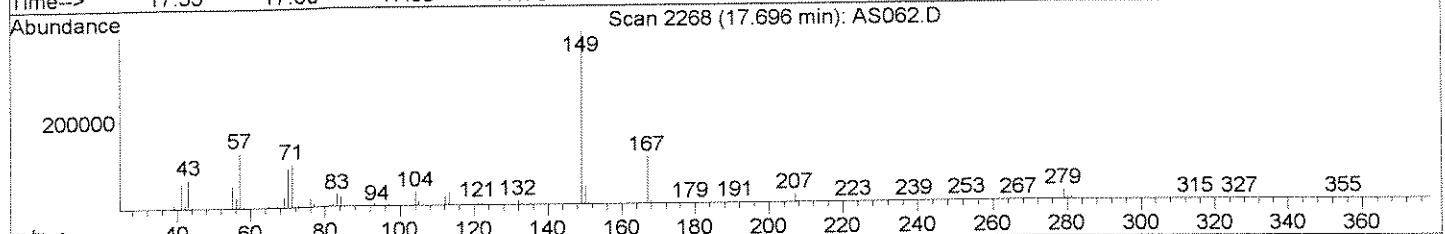
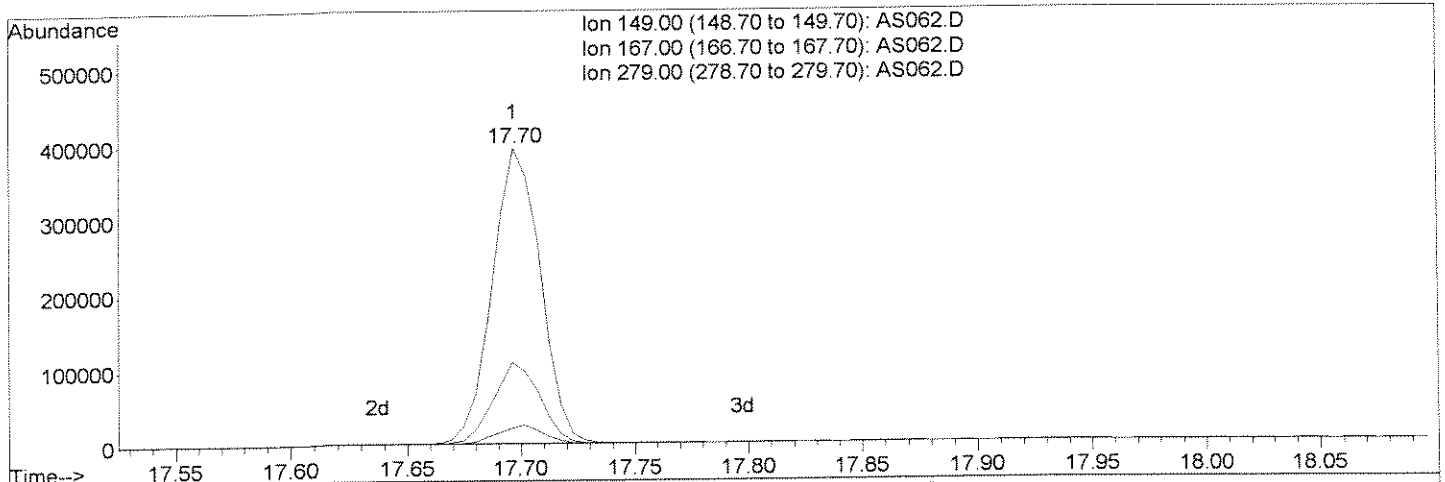
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070308\AS062.D
 Acq On : 3 Jul 2008 12:00 pm
 Sample : 1113428 1.0
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Re
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 12:34 2008

Vial: 2
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Single Level Calibration



TIC: AS062.D

(30) bis(2-Ethylhexyl)phthalate (T)

17.70min 2.71ppm

response 576953

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	27.51
279.00	6.90	5.32#
0.00	0.00	0.00

b

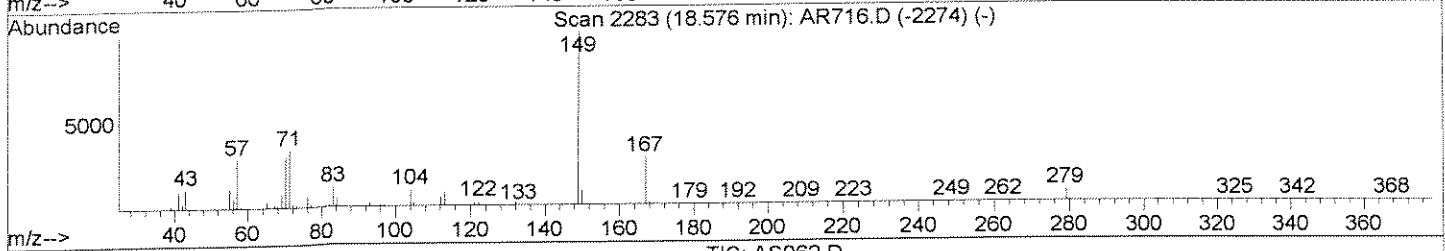
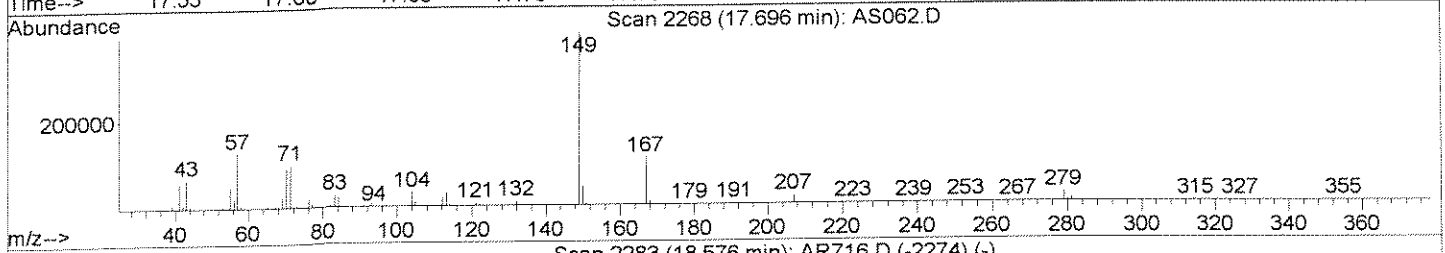
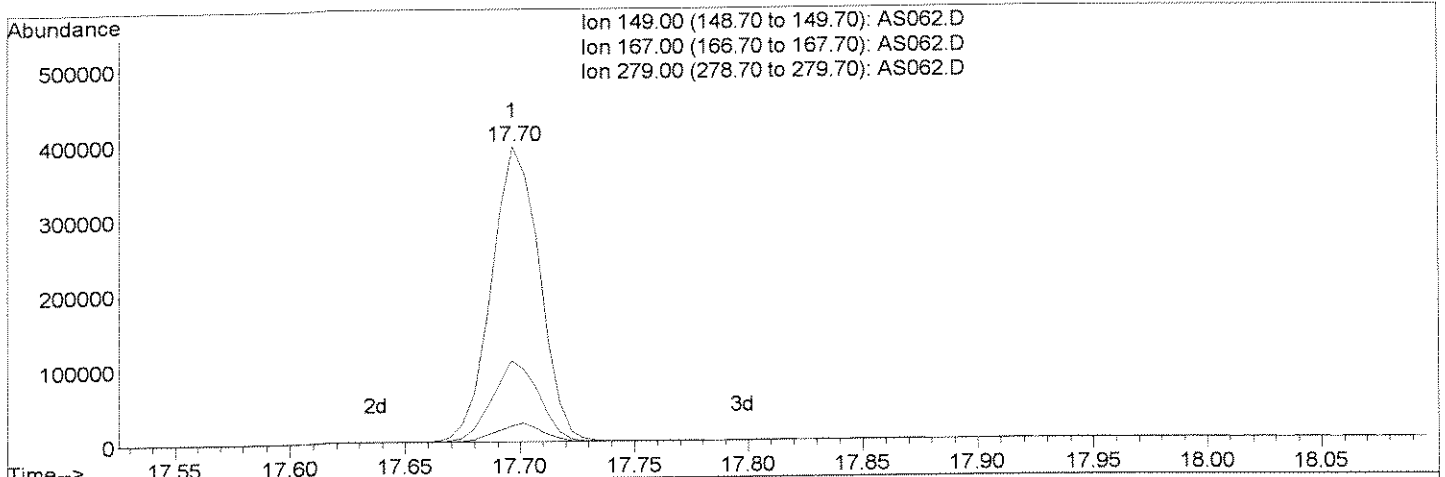
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070308\AS062.D
 Acq On : 3 Jul 2008 12:00 pm
 Sample : 1113428 1.0
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Re
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 12:34 2008

Vial: 2
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Single Level Calibration



(30) bis(2-Ethylhexyl)phthalate (T)

17.70min 2.73ppm m

response 580589

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	27.55
279.00	6.90	5.31#
0.00	0.00	0.00

A SW 7/7
MS 7/7

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-95B

Date Sampled : 06/27/08 08:30 Order #: 1113429 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	0.94		
ACENAPHTHENE	0.20	0.19 U	UG/L
ACENAPHTHYLENE	0.20	0.19 U	UG/L
ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.19 U	UG/L
BENZO (A) PYRENE	0.20	0.19 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.19 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.19 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.19 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.7 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.7 U	UG/L
INDENO (1, 2, 3 - CD) PYRENE	0.20	0.19 U	UG/L
CHRYSENE	0.20	0.19 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.19 U	UG/L
DIETHYLPHTHALATE	5.0	4.7 U	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4 - DIOXANE	2.0	1.9 U	UG/L
BIS (2 - ETHYLHEXYL) PHTHALATE	5.0	0.22 JB	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2 - METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.038 JB	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.7 U	UG/L
PHENANTHRENE	0.20	0.19 U	UG/L
PYRENE	0.20	0.19 U	UG/L
PYRIDINE	2.0	1.9 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL - d14	(45 - 135 %)	88	%
NITROBENZENE - d5	(45 - 135 %)	90	%
2 - FLUOROBIPHENYL	(45 - 135 %)	72	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS050.D Vial: 16
 Acq On : 2 Jul 2008 4:50 pm Operator: J.Wu
 Sample : 1113429 0.94 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 17:16:45 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	73270	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	277598	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	139110	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	306470	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	269322	1.00	ppm	-0.01
33) d12-Perylene	21.30	264	196631	1.00	ppm	-0.02

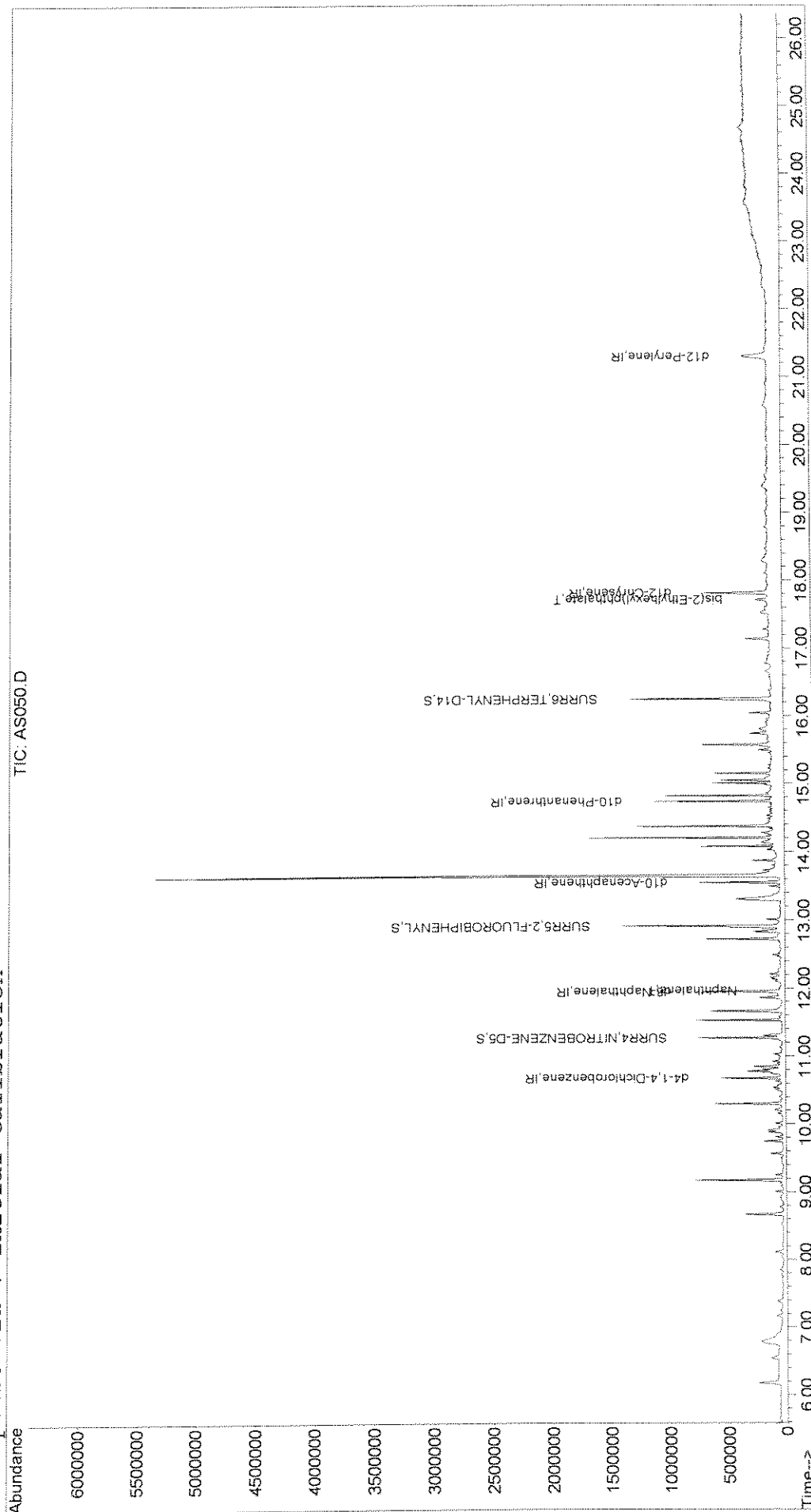
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	285381	1.79	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	89.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	357871	1.44	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	72.00%
28) SURR6,TERPHENYL-D14	16.25	244	401310	1.76	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	88.00%

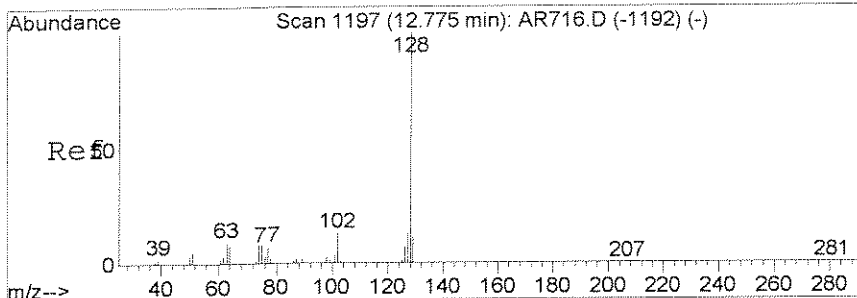
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Naphthalene	11.97	128	11987	0.04	ppm	96
30) bis(2-Ethylhexyl)phthalate	17.71	149	47086	0.24	ppm	95

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS050.D Vial: 16
Acq On : 2 Jul 2008 4:50 pm Operator: J.Wu
Sample : 1113429 0.94 Inst : 5973C
Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 9:05 2008 Quant Results File: LVI0626.RES

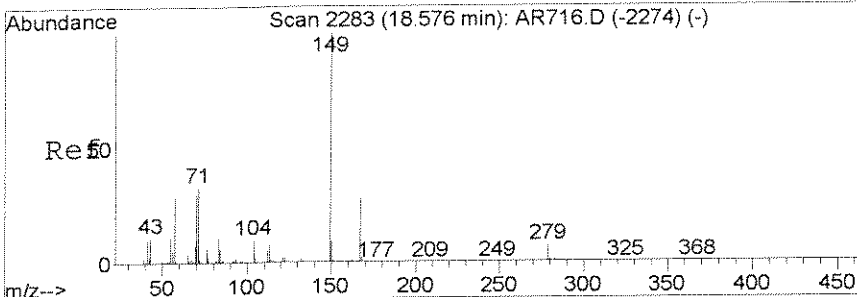
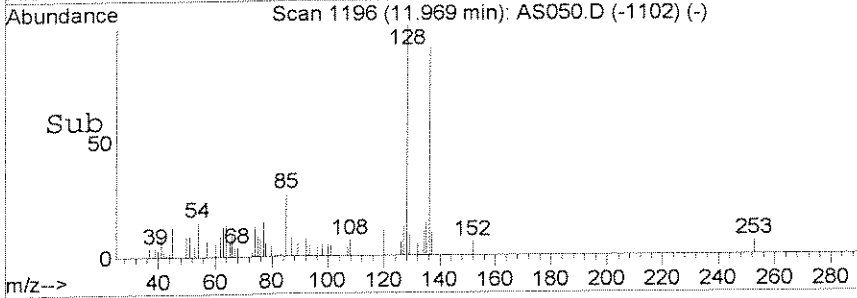
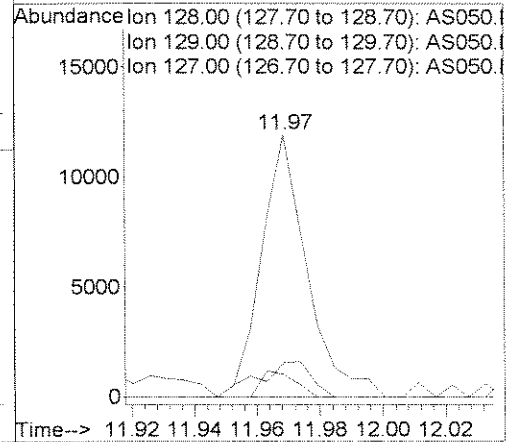
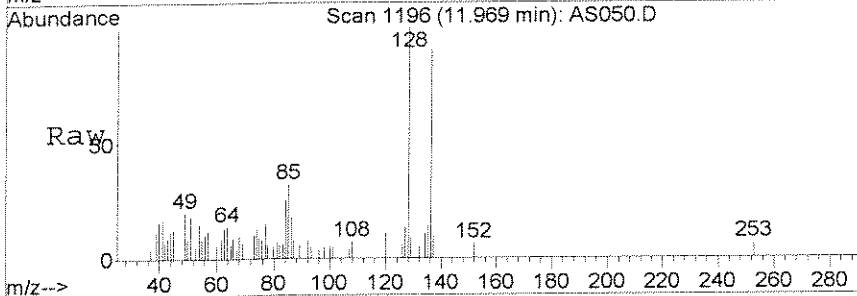
Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration





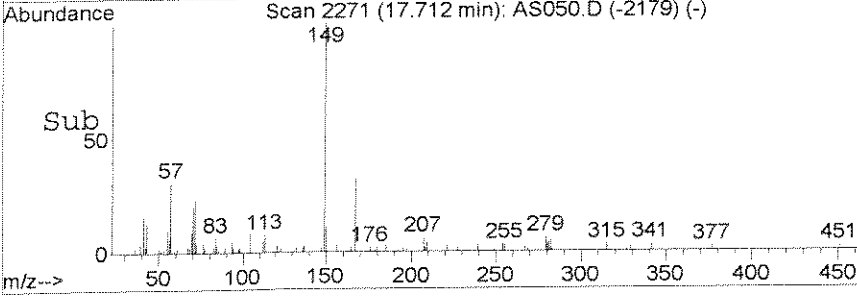
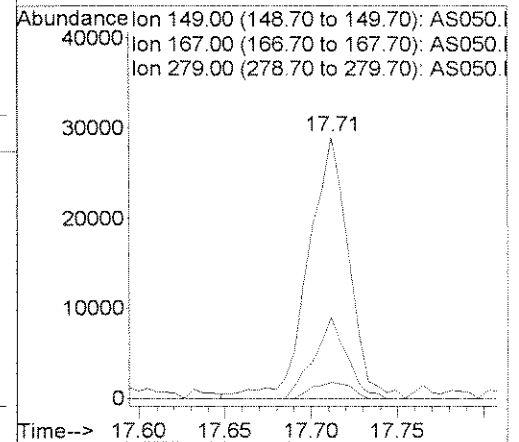
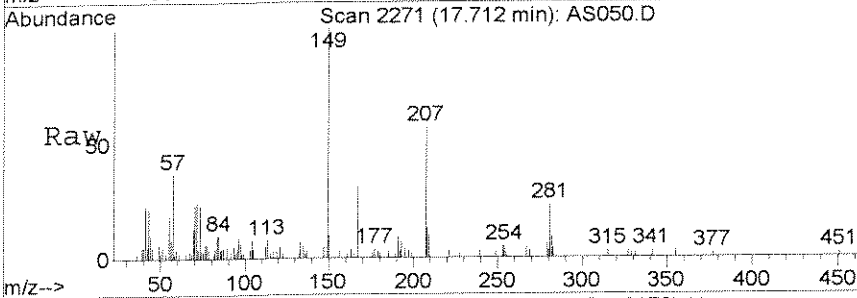
#7
 Naphthalene
 Concen: 0.04 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS050.D
 Acq: 2 Jul 2008 4:50 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
129	8.6	0.0	31.0
127	13.1	0.0	32.4



#30
 bis(2-Ethylhexyl)phthalate
 Concen: 0.24 ppm
 RT: 17.71 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: AS050.D
 Acq: 2 Jul 2008 4:50 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
167	31.2	22.5	33.7
279	6.1	5.5	8.3



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-68B

Date Sampled : 06/27/08 10:00 **Order #:** 1113430
Date Received: 06/28/08 **Submission #:** R2844650

Sample Matrix: WATER
Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/02/08		
ANALYTICAL DILUTION:	1.03		
ACENAPHTHENE	0.20	0.21 U	UG/L
ACENAPHTHYLENE	0.20	0.21 U	UG/L
ANTHRACENE	0.20	0.21 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.21 U	UG/L
BENZO (A) PYRENE	0.20	0.21 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.21 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.21 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.21 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	5.2 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	5.2 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.21 U	UG/L
CHRYSENE	0.20	0.21 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.21 U	UG/L
DIETHYLPHTHALATE	5.0	5.2 U	UG/L
DIMETHYL PHTHALATE	5.0	5.2 U	UG/L
1, 4-DIOXANE	2.0	0.44 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.2 U	UG/L
FLUORANTHENE	0.20	0.21 U	UG/L
FLUORENE	0.20	0.21 U	UG/L
HEXACHLOROBENZENE	0.20	0.21 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.21 U	UG/L
NAPHTHALENE	0.20	0.041 JB	UG/L
NITROBENZENE	0.20	0.21 U	UG/L
OCTACHLOROSTYRENE	0.20	0.21 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.2 U	UG/L
PHENANTHRENE	0.20	0.21 U	UG/L
PYRENE	0.20	0.21 U	UG/L
PYRIDINE	2.0	2.1 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	99	%
NITROBENZENE-d5	(45 - 135 %)	80	%
2-FLUOROBIPHENYL	(45 - 135 %)	70	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS051.D Vial: 17
 Acq On : 2 Jul 2008 5:26 pm Operator: J.Wu
 Sample : 1113430 1.03 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 17:52:43 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

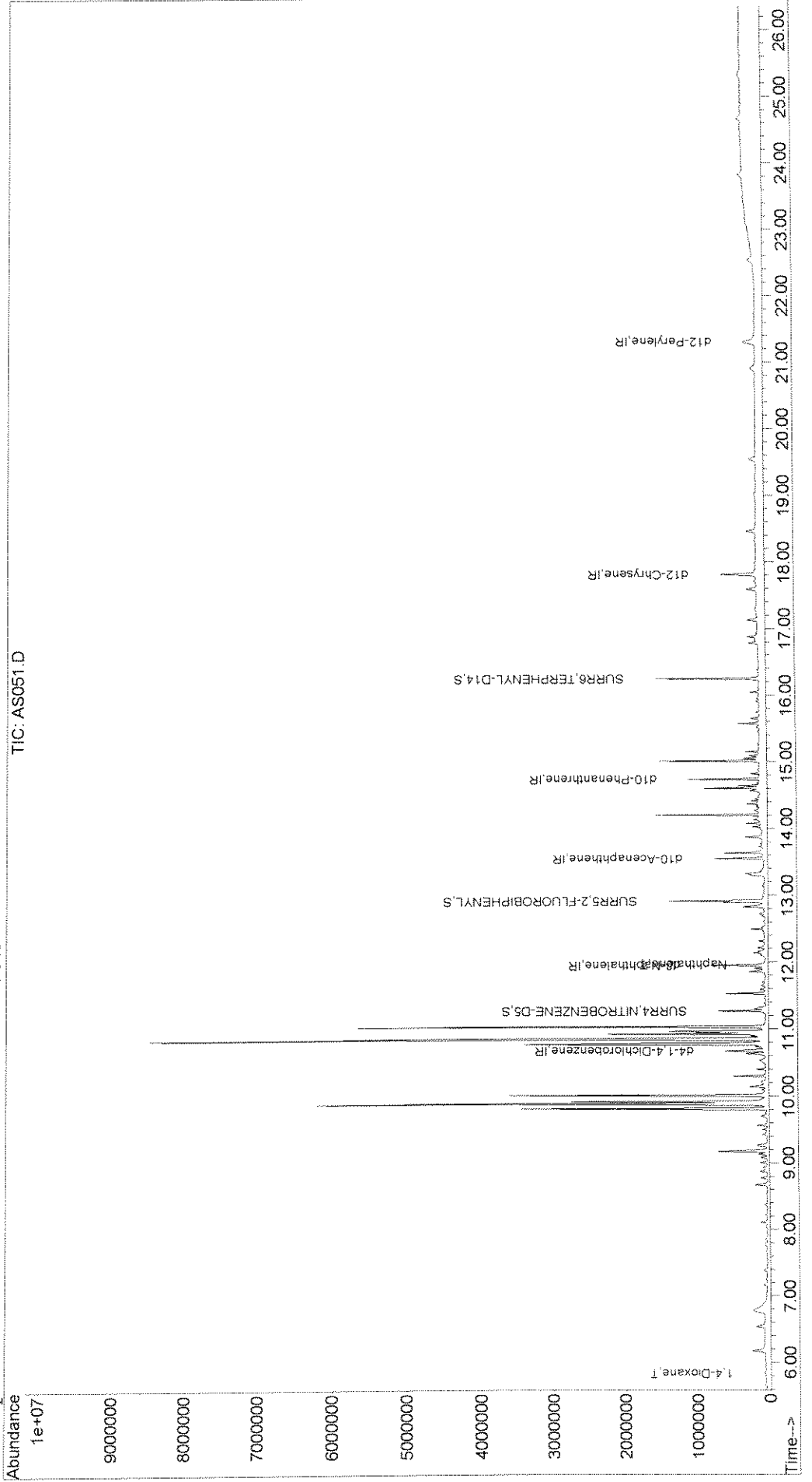
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	77183	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	296706	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	138931	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	323392	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	268981	1.00	ppm	0.00
33) d12-Perylene	21.30	264	154894	1.00	ppm	-0.02
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	270350	1.59	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	79.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	345768	1.40	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	70.00%
28) SURR6,TERPHENYL-D14	16.25	244	447382	1.97	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	98.50%
Target Compounds						
2) 1,4-Dioxane	5.84	88	19134	0.43	ppm	96
7) Naphthalene	11.97	128	10999	0.04	ppm	93

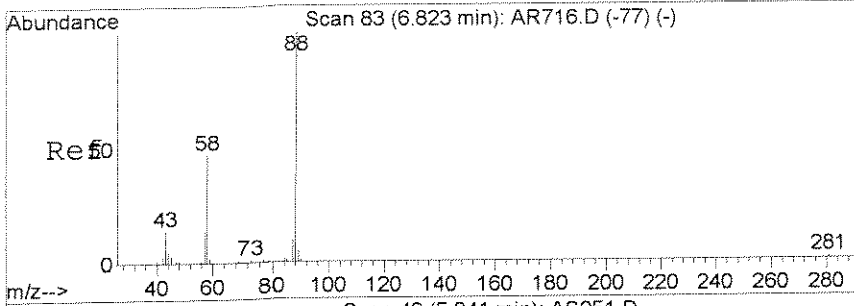
JW
 00843

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS051.D
Acq On : 2 Jul 2008 5:26 pm Vial: 17
Sample : 1113430 1.03 Operator: J.Wu
Misc : 06/30/2008 1.0 ENSR 8270.NEVA Inst : 5973C
Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 3 9:07 2008 Quant Results File: LVI0626.RES

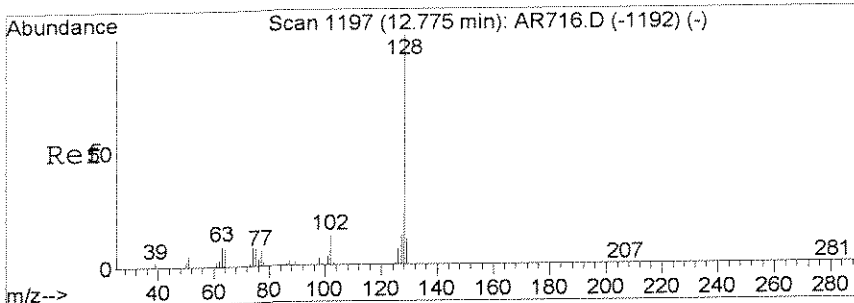
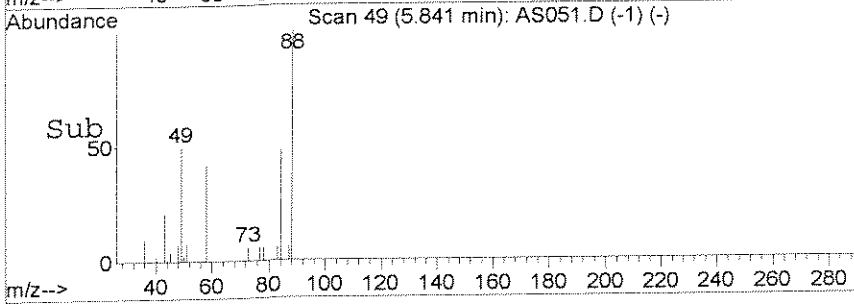
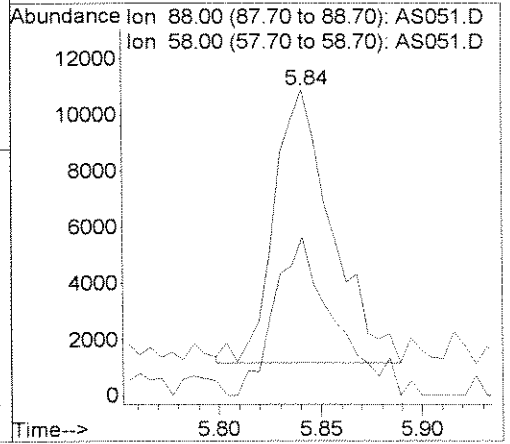
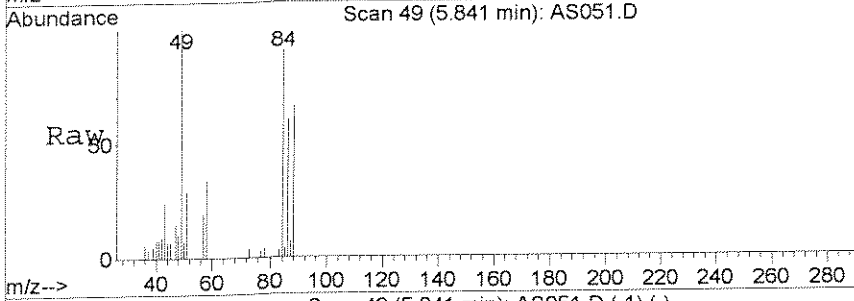
Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration





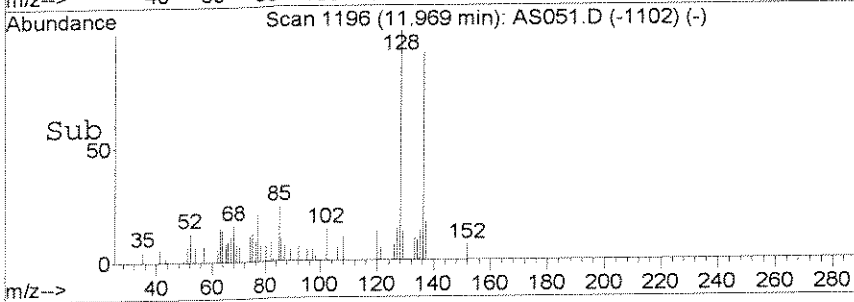
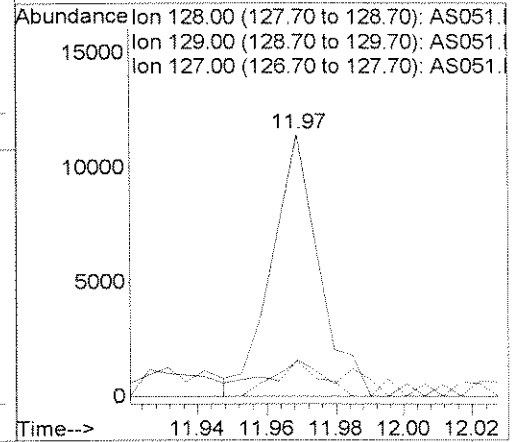
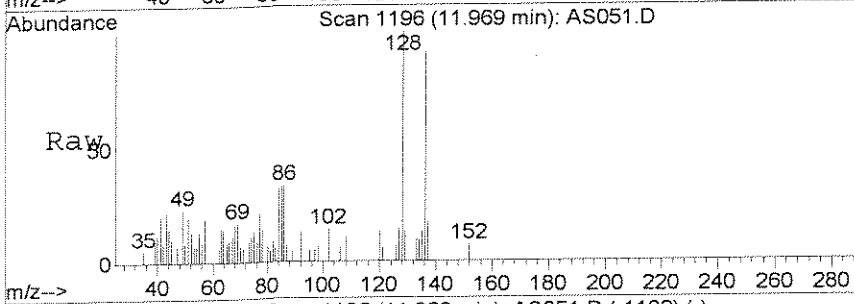
#2
 1,4-Dioxane
 Concn: 0.43 ppm
 RT: 5.84 min Scan# 49
 Delta R.T. 0.04 min
 Lab File: AS051.D
 Acq: 2 Jul 2008 5:26 pm

Tgt Ion	Resp	Lower	Upper
88	19134		
58	55.8	38.6	78.6



#7
 Naphthalene
 Concn: 0.04 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS051.D
 Acq: 2 Jul 2008 5:26 pm

Tgt Ion	Resp	Lower	Upper
128	10999		
129	13.8	0.0	31.0
127	9.5	0.0	32.4



SEMIVOLATILE ORGANICS

STANDARDS DATA

Response Factor Report 5973C

Method : J:\ACQUATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration

Calibration Files

0.1 =AR928.D 0.2 =AR929.D 0.5 =AR930.D
 1.0 =AR931.D 2.0 =AR932.D 3.0 =AR933.D 4.0=AR934, 5.0=AR935, 10.0=AR936

Compound	0.1	0.2	0.5	1.0	2.0	3.0	Avg	%RSD
1) IR d4-1,4-Dichlorobenzen	-----ISTD-----							
2) T 1,4-Dioxane	0.611	0.656	0.584	0.534	0.563	0.531	0.574	7.14
3) Pyridine		1.745	1.930	1.882	1.989	1.842	1.903	5.04
4) IR d8-Naphthalene	-----ISTD-----							
5) S SURR4,NITROBENZ	0.504	0.543	0.559	0.549	0.611	0.574	0.573	6.72
6) T Nitrobenzene	0.577	0.595	0.591	0.571	0.614	0.585	0.595	2.75
7) T Naphthalene	0.996	1.062	1.035	1.001	1.065	1.036	1.028	3.95
8) T 2-Methylnaphtha	0.672	0.680	0.646	0.644	0.703	0.685	0.687	4.44
9) T 1-Methylnaphtha	0.652	0.633	0.651	0.618	0.693	0.668	0.668	4.63
10) IR d10-Acenaphthene	-----ISTD-----							
11) S SURR5,2-FLUOROB		1.325	1.359	1.396	1.727	1.945	1.685	19.03
12) T Acenaphthylene		1.597	1.753	1.825	2.263	2.554	2.191	21.12 LR
13) Dimethyl phthal			1.223	1.154	1.487	1.570	1.503	15.46 LR
14) T Acenaphthene		1.154	1.153	1.179	1.447	1.591	1.410	17.36 LR
15) T Dibenzofuran		1.680	1.725	1.715	2.190	2.449	2.125	19.35 LR
16) T Fluorene	1.019	1.106	1.195	1.266	1.554	1.755	1.451	23.85 LR
17) Diethylphthalat				1.231	1.576	1.768	1.640	14.14
18) IR d10-Phenanthrene	-----ISTD-----							
19) T Hexachlorobenze	0.239	0.257	0.266	0.242	0.260	0.256	0.259	5.01
20) T Phenanthrene	1.030	1.003	1.033	1.008	1.083	1.048	1.019	5.57
21) T Anthracene	0.883	0.929	0.986	0.958	1.050	1.040	0.985	7.18
22) T Carbazole	0.596	0.737	0.784	0.785	0.807	0.764	0.724	11.03
23) Octachlorostyre	0.042	0.056	0.062	0.060	0.066	0.063	0.061	14.10
24) Di-n-butylphtha		1.016	1.020	1.018	1.165	1.138	1.074	8.33
25) T Fluoranthene	0.944	0.970	1.036	0.987	1.131	1.104	1.045	6.91
26) IR d12-Chrysene	-----ISTD-----							
27) T Pyrene	1.094	1.184	1.174	1.120	1.260	1.176	1.171	5.87
28) S SURR6,TERPHENYL	0.865	0.800	0.809	0.818	0.902	0.845	0.846	4.23
29) Butylbenzylphth	0.481	0.401	0.433	0.459	0.555	0.528	0.506	12.67
30) T bis(2-Ethylhexy			0.607	0.659	0.783	0.737	0.724	9.91
31) T Benzo(a)anthrac	0.953	1.013	1.050	1.071	1.188	1.100	1.091	7.07
32) T Chrysene	1.120	1.141	1.118	1.072	1.186	1.081	1.119	3.26
33) IR d12-Perylene	-----ISTD-----							
34) Di-n-octylphtha		0.771	0.927	1.071	1.343	1.359	1.274	24.93 LR
35) T Benzo(b)Fluoran	1.234	1.313	1.370	1.372	1.475	1.459	1.420	7.31
36) T Benzo(k)fluoran	1.147	1.235	1.258	1.345	1.466	1.356	1.372	10.05
37) T Benzo(a)pyrene		0.917	1.022	1.114	1.265	1.229	1.203	14.05
38) T Indeno(1,2,3-cd		0.956	1.152	1.330	1.521	1.448	1.361	16.99 LR



Response Factor Report 5973C

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration

Calibration Files

0.1 =AR928.D 0.2 =AR929.D 0.5 =AR930.D
 1.0 =AR931.D 2.0 =AR932.D 3.0 =AR933.D

Compound		0.1	0.2	0.5	1.0	2.0	3.0	Avg	%RSD
39) T	Dibenz(a,h)anth		0.641	0.932	1.076	1.287	1.239	1.132	23.84
40) T	Benzo(g,h,i)per	0.882	1.074	1.184	1.248	1.323	1.251	1.190	12.23

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR932.D
 Acq On : 26 Jun 2008 7:50 pm
 Sample : INITIAL CALIBRATION
 Misc : 2.0/4.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P

Vial: 6
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	100	0.00
2	T 1,4-Dioxane	0.574	0.563	1.9	100	0.00
3	Pyridine	1.903	1.989	-4.5	100	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	100	0.00
5	S SURR4,NITROBENZENE-D5	0.573	0.611	-6.6	100	0.00
6	T Nitrobenzene	0.595	0.614	-3.2	100	0.00
7	T Naphthalene	1.028	1.065	-3.6	100	0.00
8	T 2-Methylnaphthalene	0.687	0.703	-2.3	100	0.00
9	T 1-Methylnaphthalene	0.668	0.693	-3.7	100	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	100	0.00
11	S SURR5,2-FLUOROBIPHENYL	1.685	1.727	-2.5	100	0.00
12	T Acenaphthylene	2.191	2.263	-3.3	100	0.00
13	Dimethyl phthalate	1.503	1.487	1.1	100	0.00
14	T Acenaphthene	1.410	1.447	-2.6	100	0.00
15	T Dibenzofuran	2.125	2.190	-3.1	100	0.00
16	T Fluorene	1.451	1.554	-7.1	100	0.00
17	Diethylphthalate	1.640	1.576	3.9	100	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	100	0.00
19	T Hexachlorobenzene	0.259	0.260	-0.4	100	0.00
20	T Phenanthrene	1.019	1.083	-6.3	100	0.00
21	T Anthracene	0.985	1.050	-6.6	100	0.00
22	T Carbazole	0.724	0.807	-11.5	100	0.00
23	Octachlorostyrene	0.061	0.066	-8.2	100	0.00
24	Di-n-butylphthalate	1.074	1.165	-8.5	100	0.00
25	T Fluoranthene	1.045	1.131	-8.2	100	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	100	0.00
27	T Pyrene	1.171	1.260	-7.6	100	0.00
28	S SURR6, TERPHENYL-D14	0.846	0.902	-6.6	100	0.00
29	Butylbenzylphthalate	0.506	0.555	-9.7	100	0.00
30	T bis(2-Ethylhexyl)phthalate	0.724	0.783	-8.1	100	0.00
31	T Benzo(a)anthracene	1.091	1.188	-8.9	100	0.00
32	T Chrysene	1.119	1.186	-6.0	100	0.00
33	IR d12-Perylene	1.000	1.000	0.0	100	0.00
34	Di-n-octylphthalate	1.274	1.343	-5.4	100	0.00
35	T Benzo(b)Fluoranthene	1.420	1.475	-3.9	100	0.00
36	T Benzo(k)fluoranthene	1.372	1.466	-6.9	100	0.00

(#) = Out of Range
 AR932.D LVI0626.M

Fri Jun 27 09:35:18 2008

W

00849

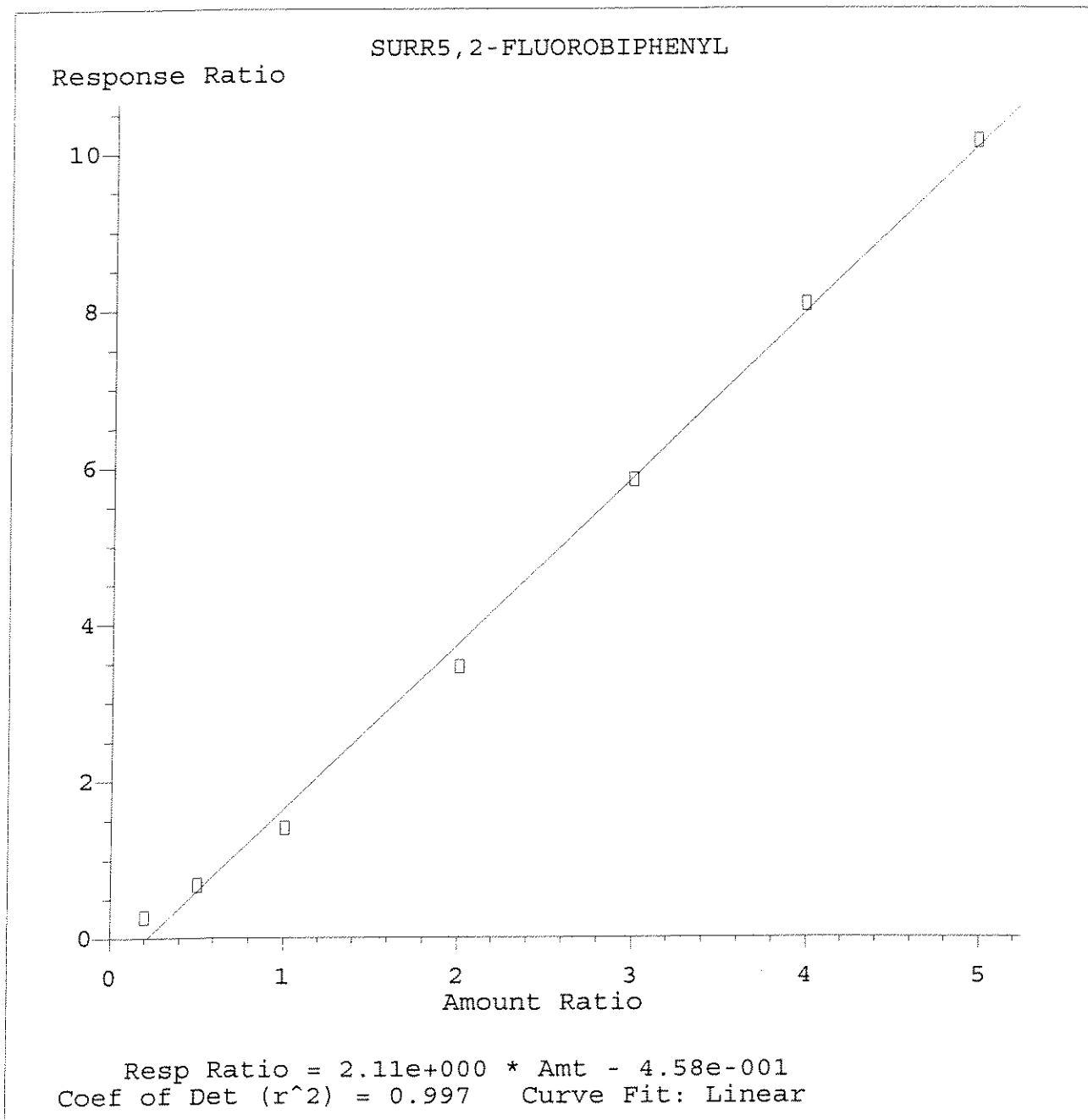
Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\062608\AR932.D Vial: 6
 Acq On : 26 Jun 2008 7:50 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

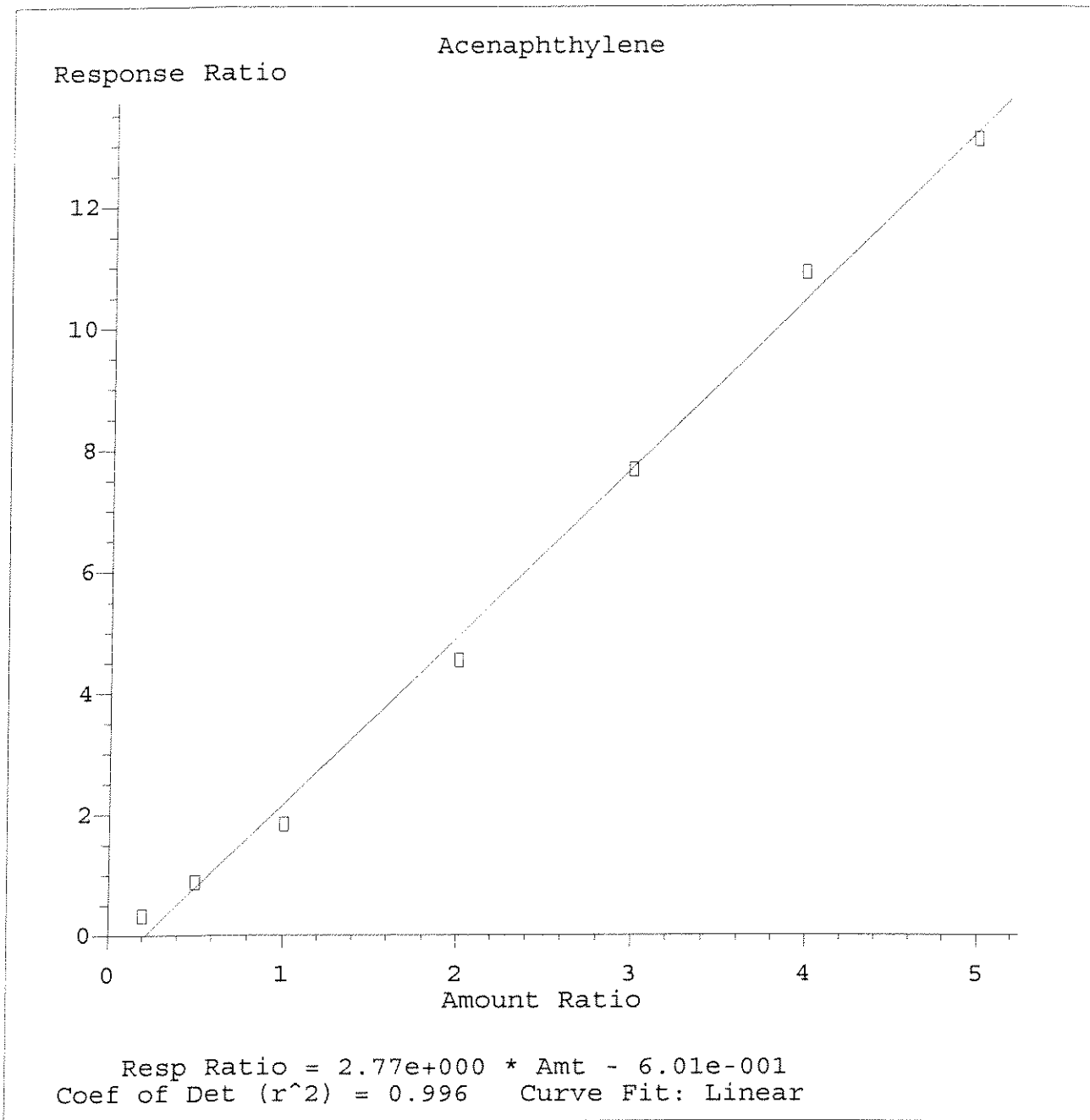
Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

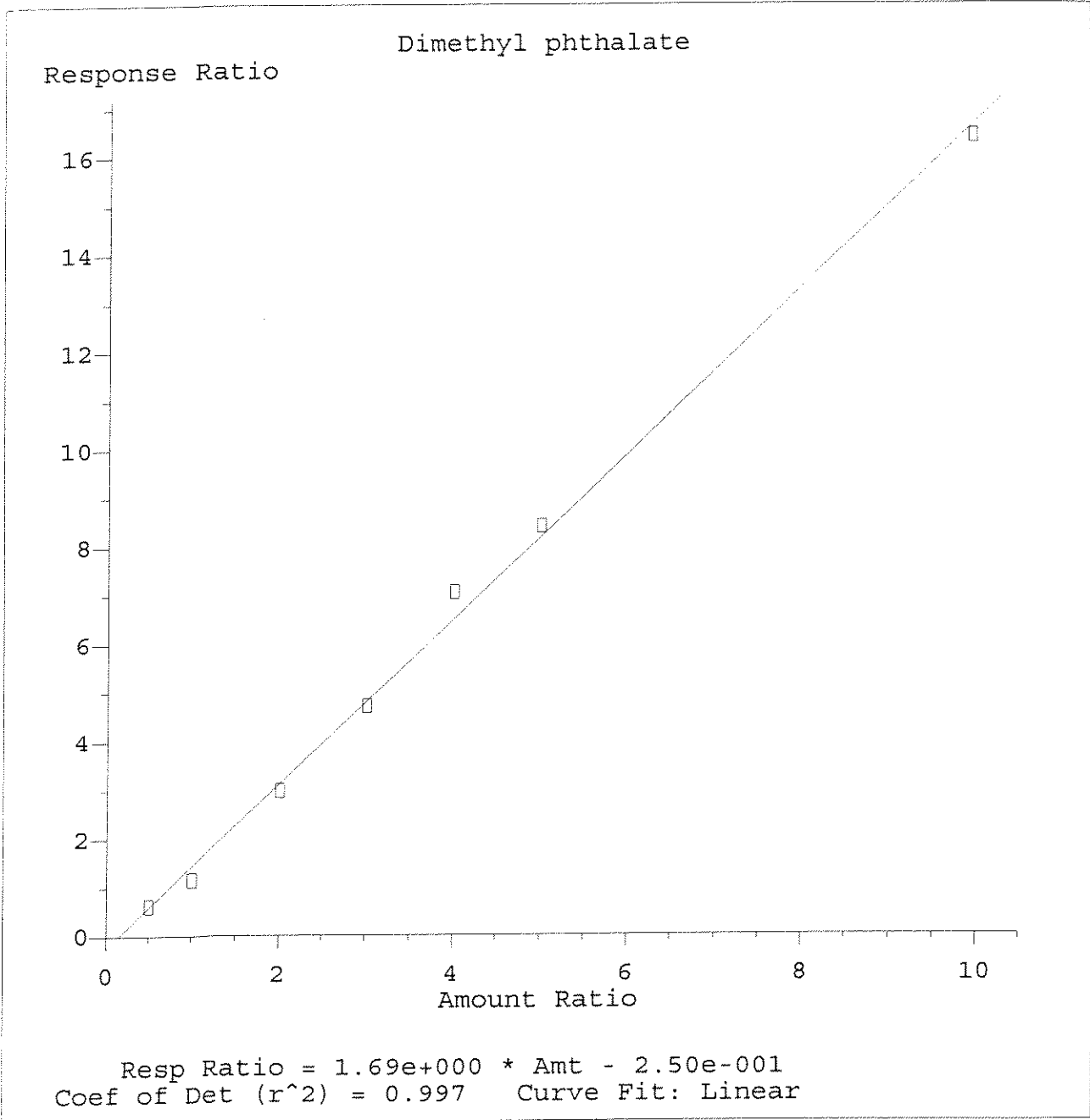
	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	1.203	1.265	-5.2	100	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.361	1.521	-11.8	100	0.00
39 T	Dibenz(a,h)anthracene	1.132	1.287	-13.7	100	0.00
40 T	Benzo(g,h,i)perylene	1.190	1.323	-11.2	100	0.00



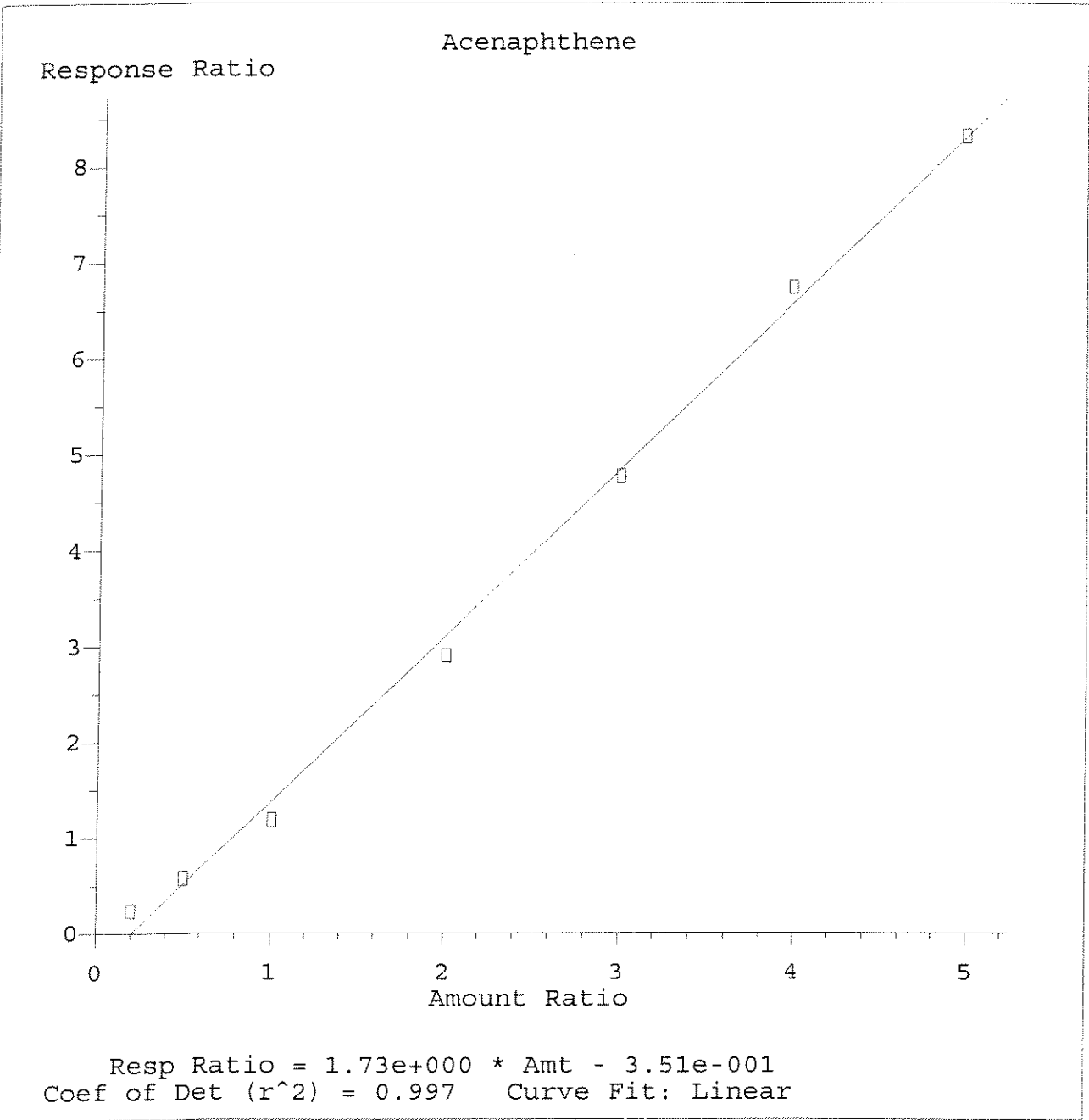
Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:02:35 2008



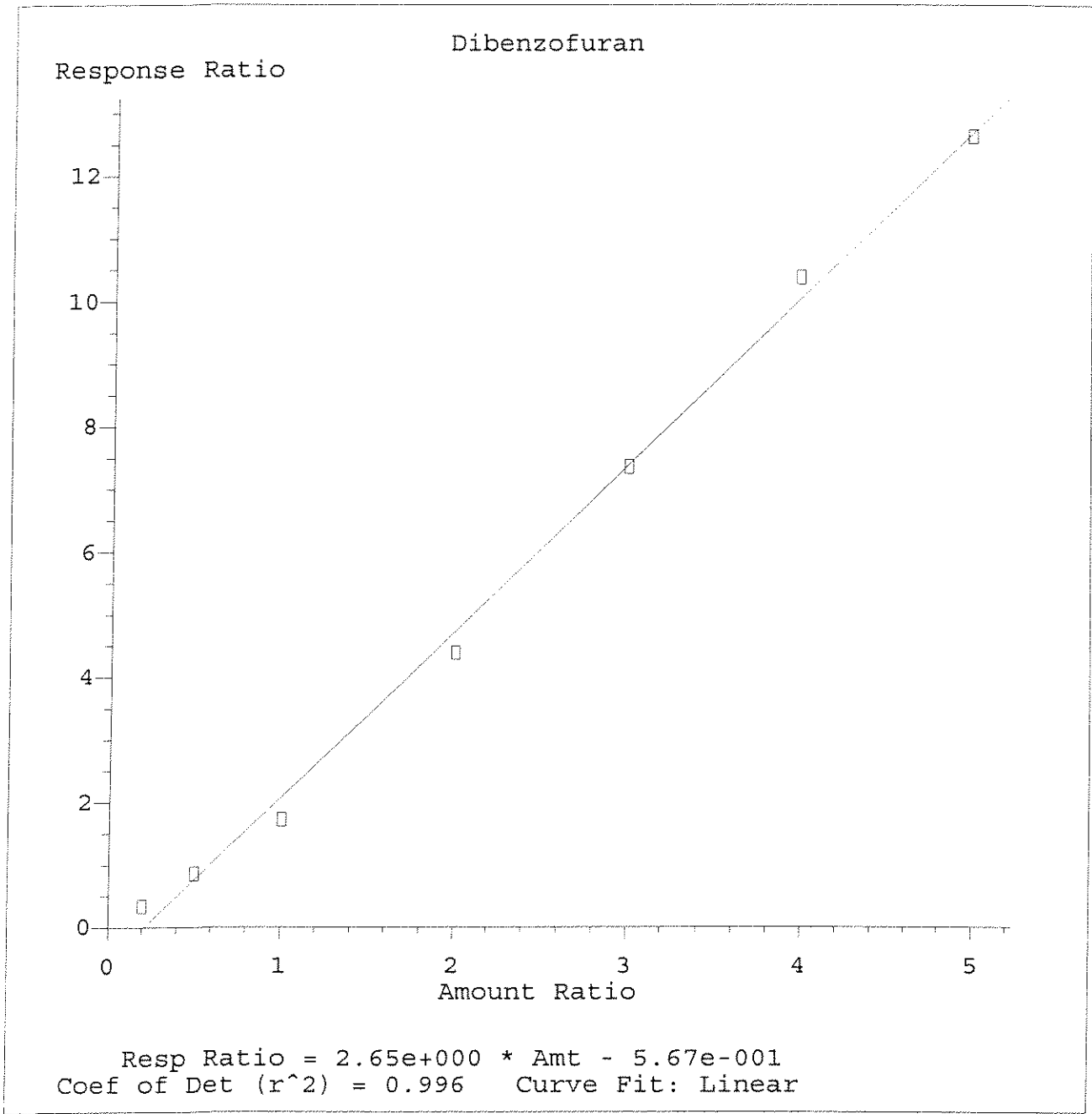
Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:02:35 2008



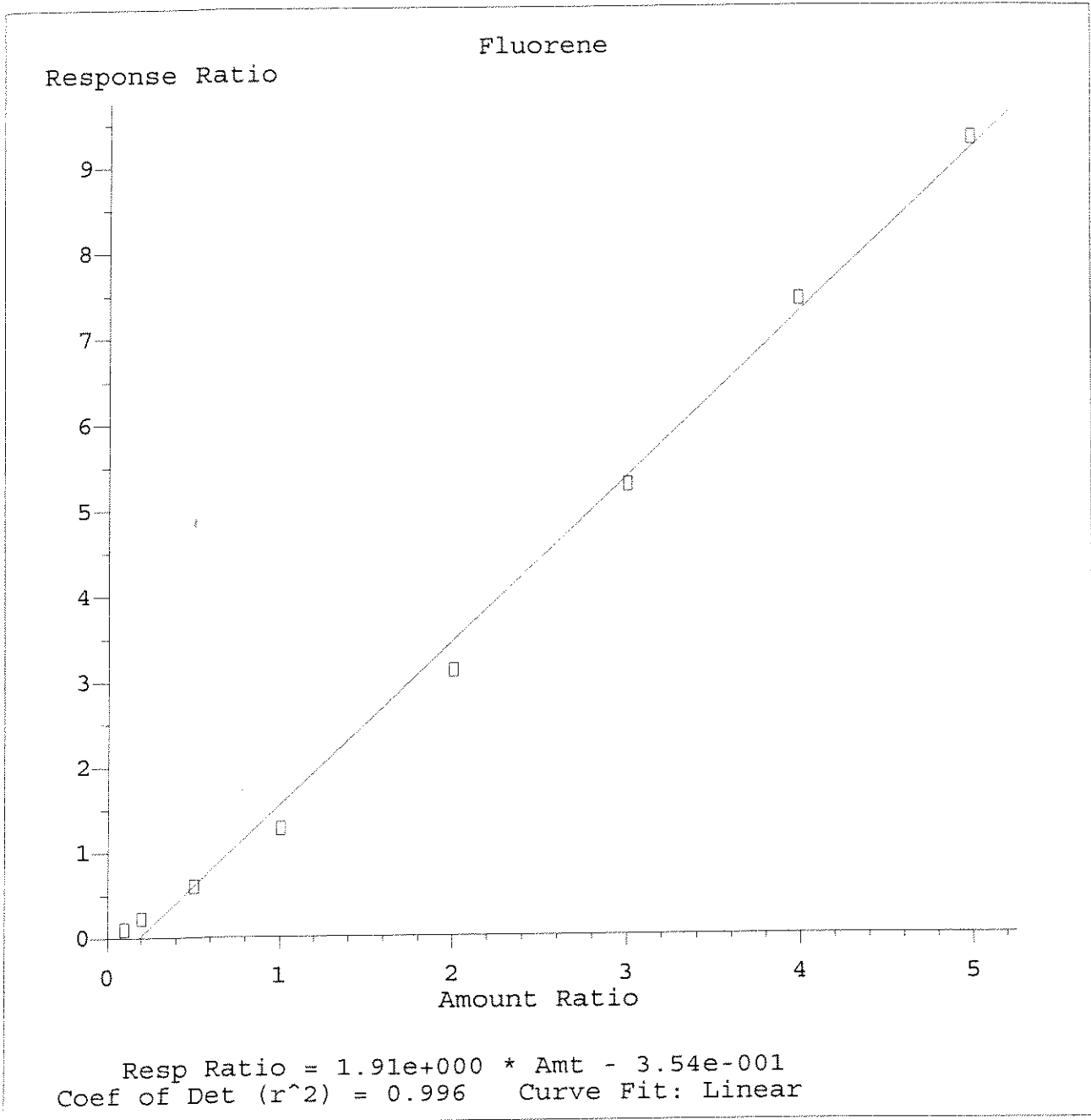
Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:08:29 2008



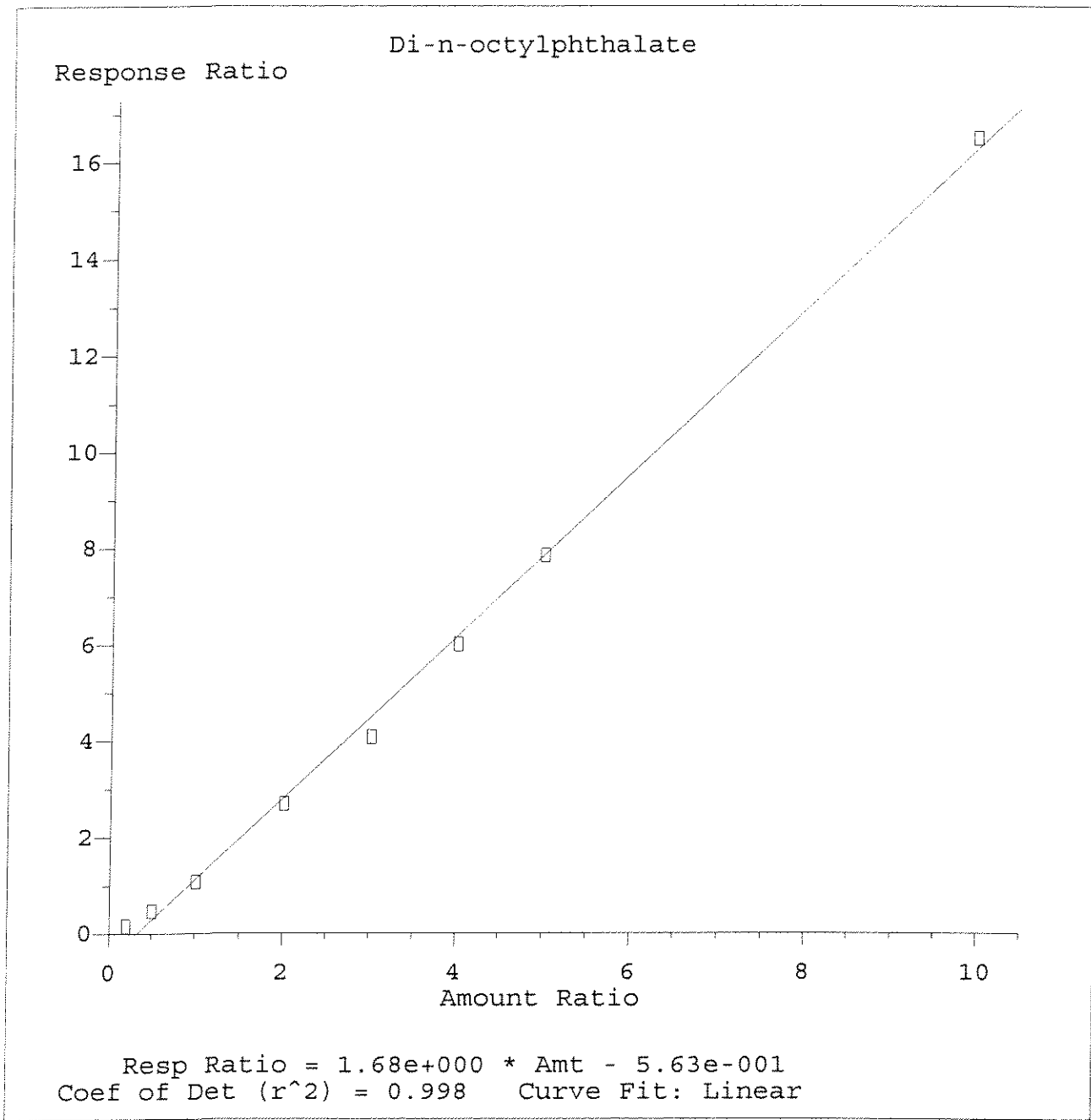
Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:11:31 2008



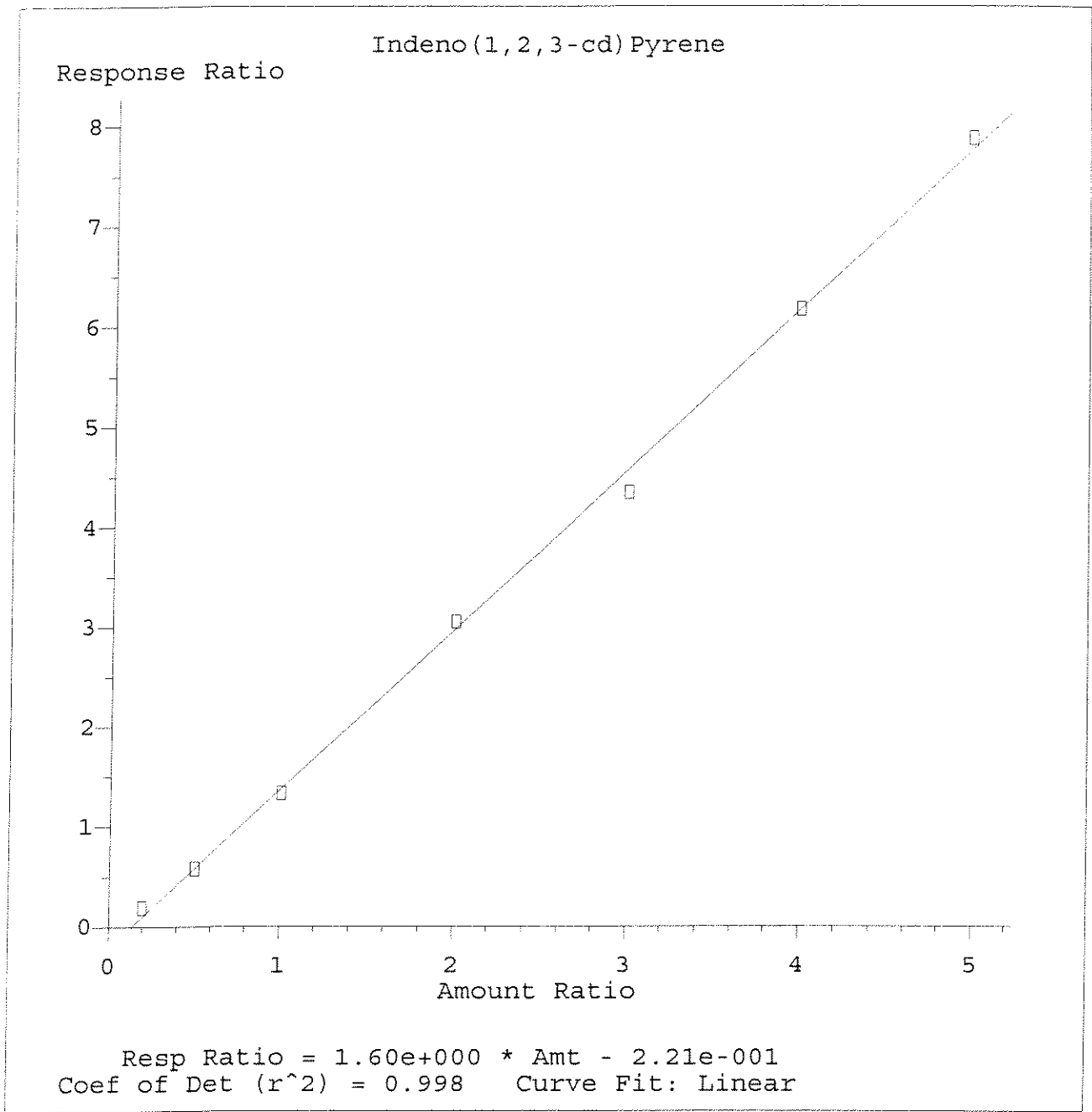
Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:15:06 2008



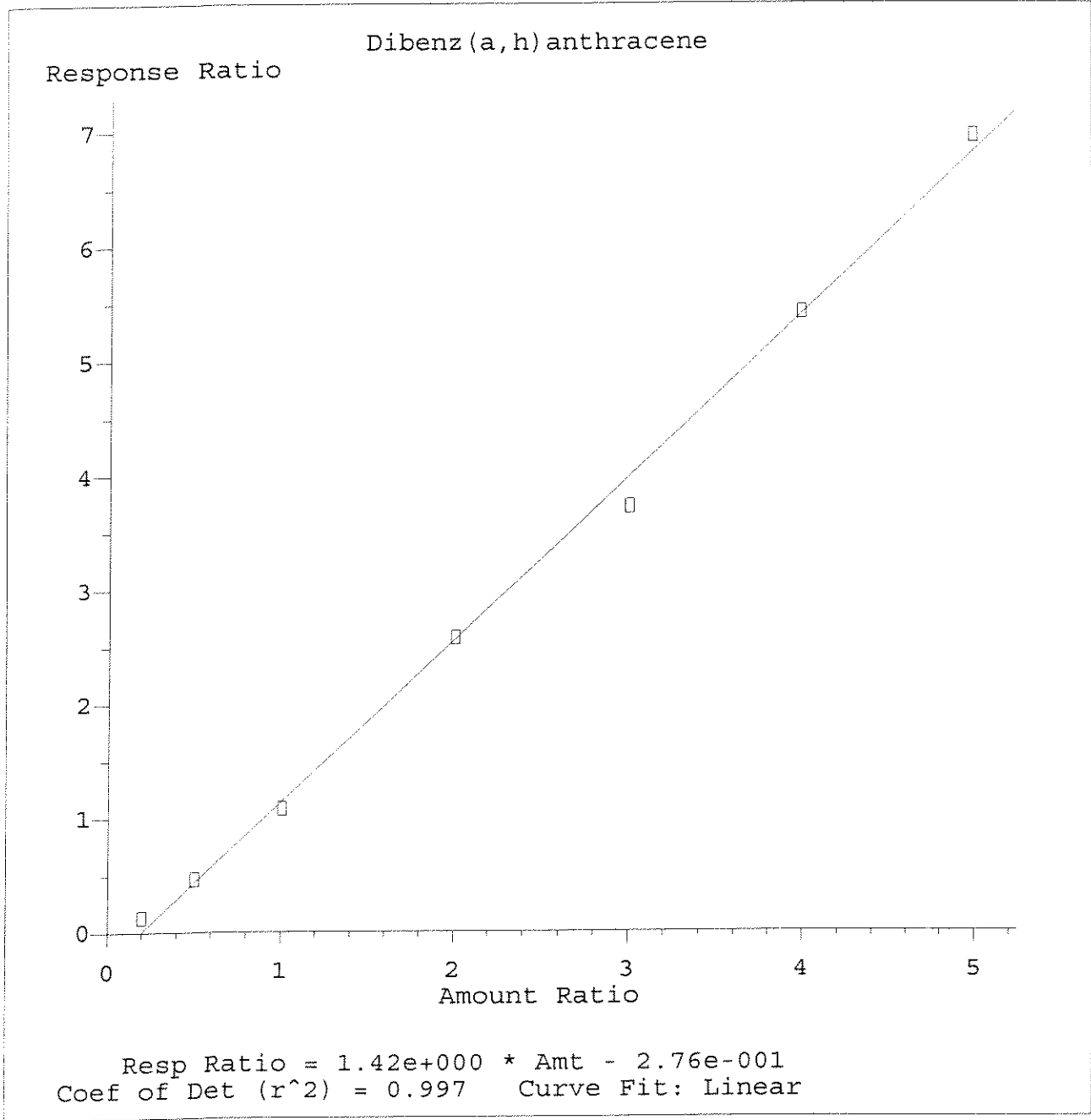
Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:16:40 2008



Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:25:39 2008



Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:29:00 2008



Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:30:45 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR927.D Vial: 1
 Acq On : 26 Jun 2008 4:56 pm Operator: J.Wu
 Sample : BLK Inst : 5973C
 Misc : 06/26/2008 1.0 CAS 8270,LL BLK Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 09:49:59 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	106665	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	413931	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	225133	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	374210	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	334246	1.00	ppm	0.00
33) d12-Perylene	21.31	264	241046	1.00	ppm	0.00

System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.48	82	186	0.00	ppm	0.21
Spiked Amount	2.000	Range	22 - 124	Recovery	=	0.00%#
11) SURR5,2-FLUOROBIPHENYL	0.00	172	0	0.00	ppm	
Spiked Amount	2.000	Range	27 - 114	Recovery	=	0.00%#
28) SURR6,TERPHENYL-D14	0.00	244	0	0.00	ppm	
Spiked Amount	2.000	Range	23 - 139	Recovery	=	0.00%#

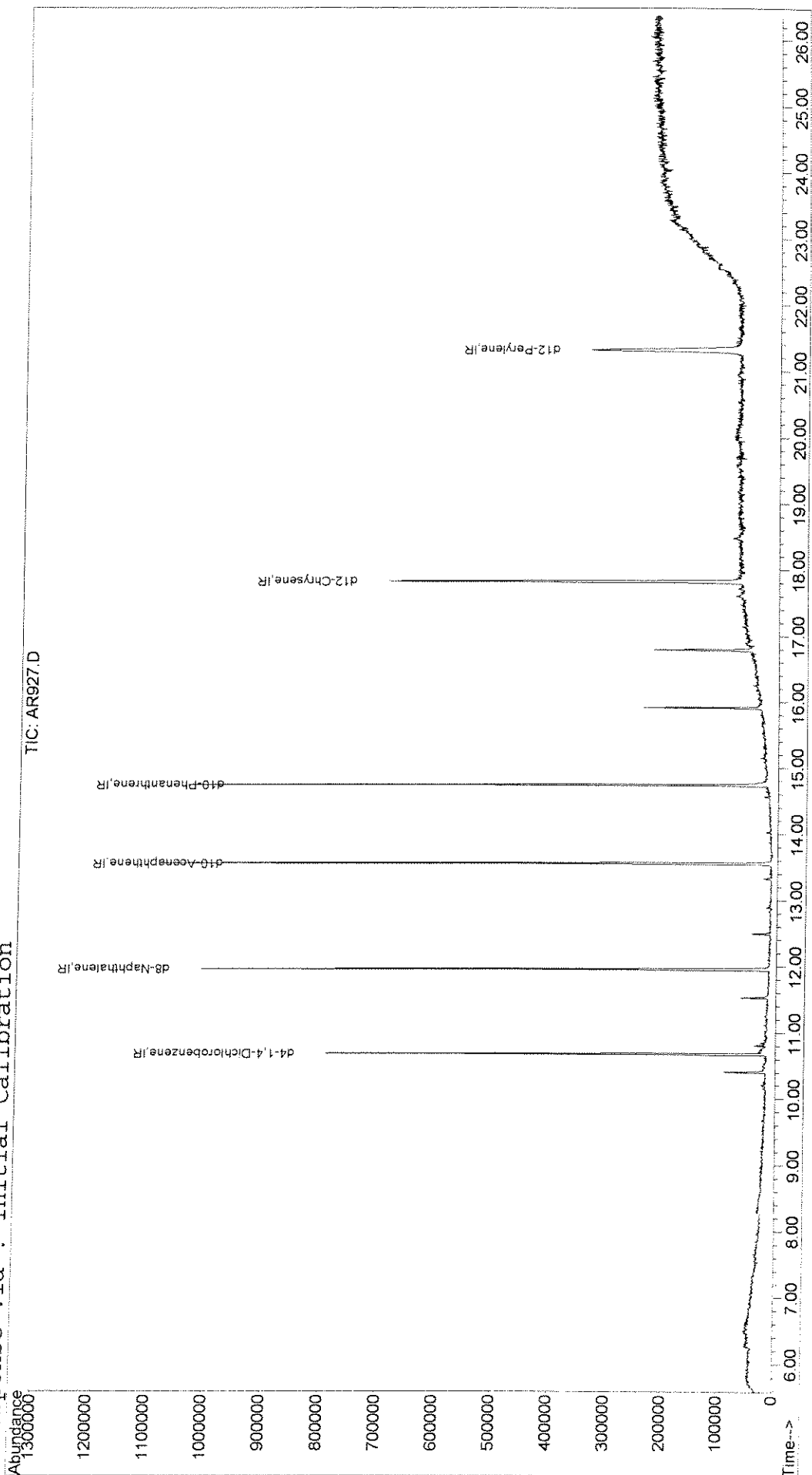
Target Compounds Qvalue



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR927.D
Acq On : 26 Jun 2008 4:56 pm Vial: 1
Sample : BLK Operator: J.Wu
Misc : 06/26/2008 1.0 CAS 8270,LL BLK Inst : 5973C
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: Jun 27 9:50 2008 Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 09:31:03 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR928.D
 Acq On : 26 Jun 2008 5:31 pm
 Sample : INITIAL CALIBRATION
 Misc : 0.1/0.2 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:43:25 2008

Vial: 2
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:43:11 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	81030	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	303431	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	167003	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	277628	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	247257	1.00	ppm	0.00
33) d12-Perylene	21.31	264	176264	1.00	ppm	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	15302	0.10	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	5.00%#		
11) SURR5,2-FLUOROBIPHENYL	12.92	172	20256	0.10	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	5.00%#		
28) SURR6,TERPHENYL-D14	16.25	244	21391	0.11	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	5.50%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	9894m	0.19	ppm	
6) Nitrobenzene	11.29	77	17493	0.11	ppm	95
7) Naphthalene	11.97	128	30217	0.11	ppm	99
8) 2-Methylnaphthalene	12.60	142	20405	0.11	ppm	85
9) 1-Methylnaphthalene	12.70	142	19796	0.11	ppm	90
12) Acenaphthylene	13.42	152	26939	0.10	ppm	92
13) Dimethyl phthalate	13.28	163	18673	0.10	ppm	98
14) Acenaphthene	13.58	153	17655	0.10	ppm	97
15) Dibenzofuran	13.72	168	25763	0.10	ppm	97
16) Fluorene	14.00	166	17024	0.09	ppm	98
17) Diethylphthalate	13.88	149	16980	0.09	ppm	96
19) Hexachlorobenzene	14.49	284	6647	0.10	ppm	93
20) Phenanthrene	14.76	178	28595	0.11	ppm	97
21) Anthracene	14.80	178	24528	0.10	ppm	90
22) Carbazole	14.91	167	16540	0.08	ppm	94
23) Octachlorostyrene	15.70	380	1165	0.07	ppm	94
24) Di-n-butylphthalate	15.15	149	39950	0.15	ppm	98
25) Fluoranthene	15.88	202	26198	0.10	ppm	96
27) Pyrene	16.15	202	27057	0.10	ppm	98
29) Butylbenzylphthalate	16.85	149	11896	0.11	ppm	82
30) bis(2-Ethylhexyl)phthalate	17.72	149	26532	0.17	ppm	99
31) Benzo(a)anthracene	17.78	228	23555	0.09	ppm	87
32) Chrysene	17.86	228	27700	0.11	ppm	93
34) Di-n-octylphthalate	18.96	149	13991	0.07	ppm	92
35) Benzo(b)Fluoranthene	20.17	252	21748	0.10	ppm	89
36) Benzo(k)fluoranthene	20.24	252	20221	0.09	ppm	80

(#) = qualifier out of range (m) = manual integration
 AR928.D LVI0626.M Fri Jun 27 09:57:15 2008

TW

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR928.D Vial: 2
 Acq On : 26 Jun 2008 5:31 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.1/0.2 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:43:25 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:43:11 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Benzo(a)pyrene	21.13	252	14414	0.08	ppm	82
38) Indeno(1,2,3-cd)Pyrene	24.43	276	12905	0.06	ppm	87
40) Benzo(g,h,i)perylene	25.23	276	15555	0.08	ppm	82

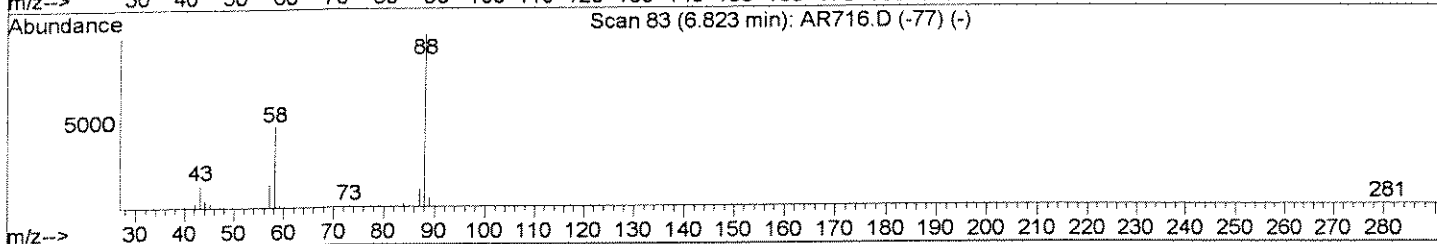
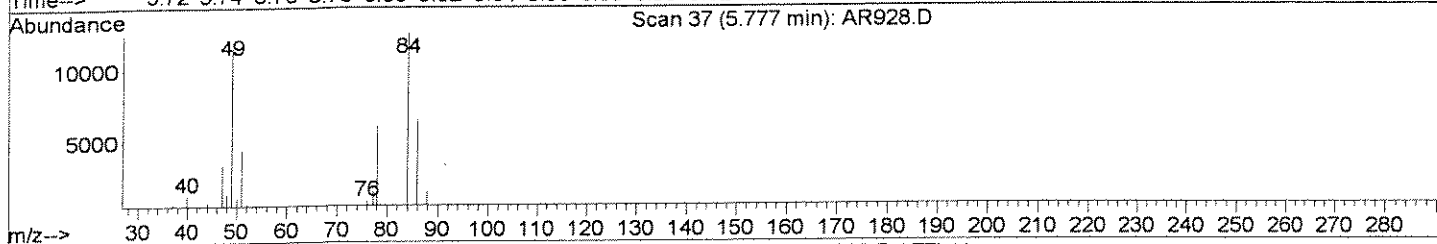
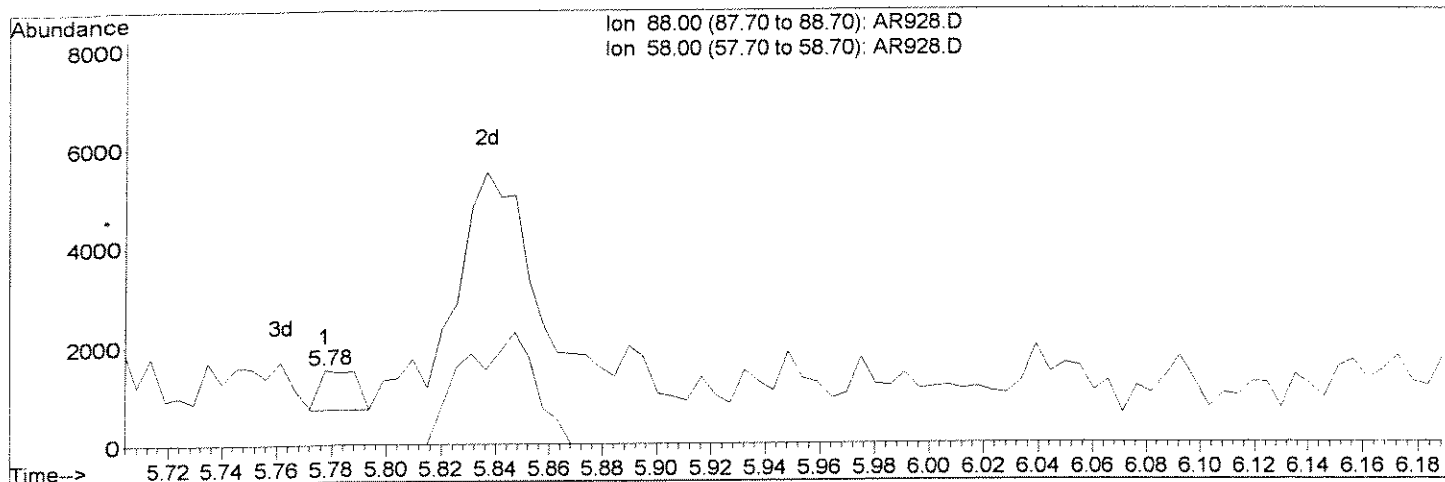
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR928.D
 Acq On : 26 Jun 2008 5:31 pm
 Sample : INITIAL CALIBRATION
 Misc : 0.1/0.2 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:40 2008

Vial: 2
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:40:19 2008
 Response via : Multiple Level Calibration



TIC: AR928.D

(2) 1,4-Dioxane (T)

5.78min 0.01ppm

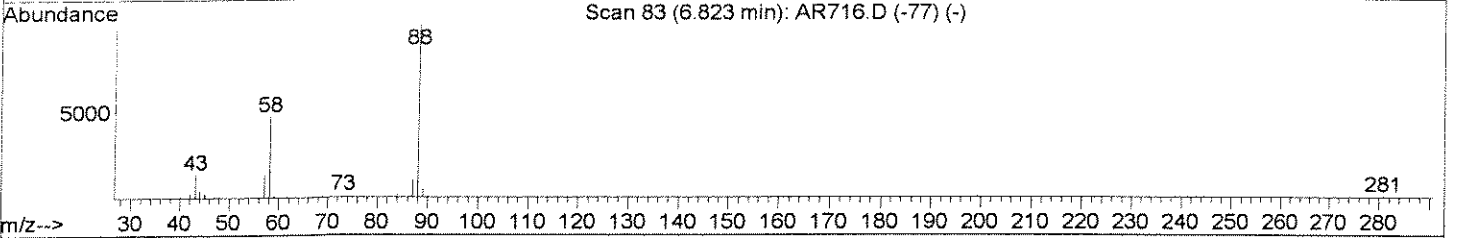
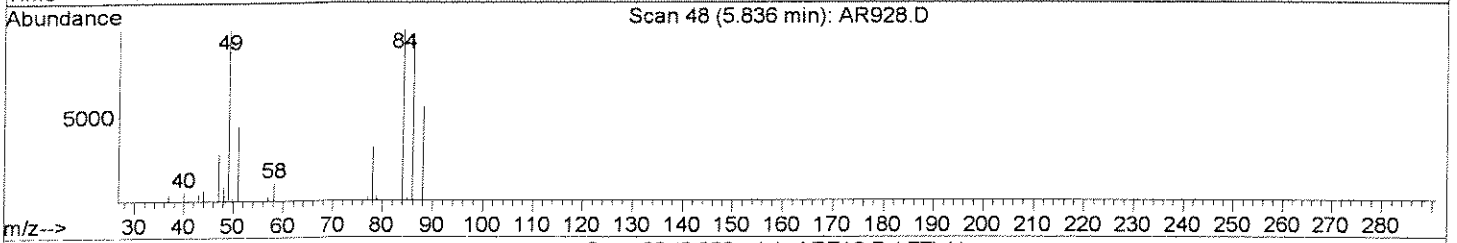
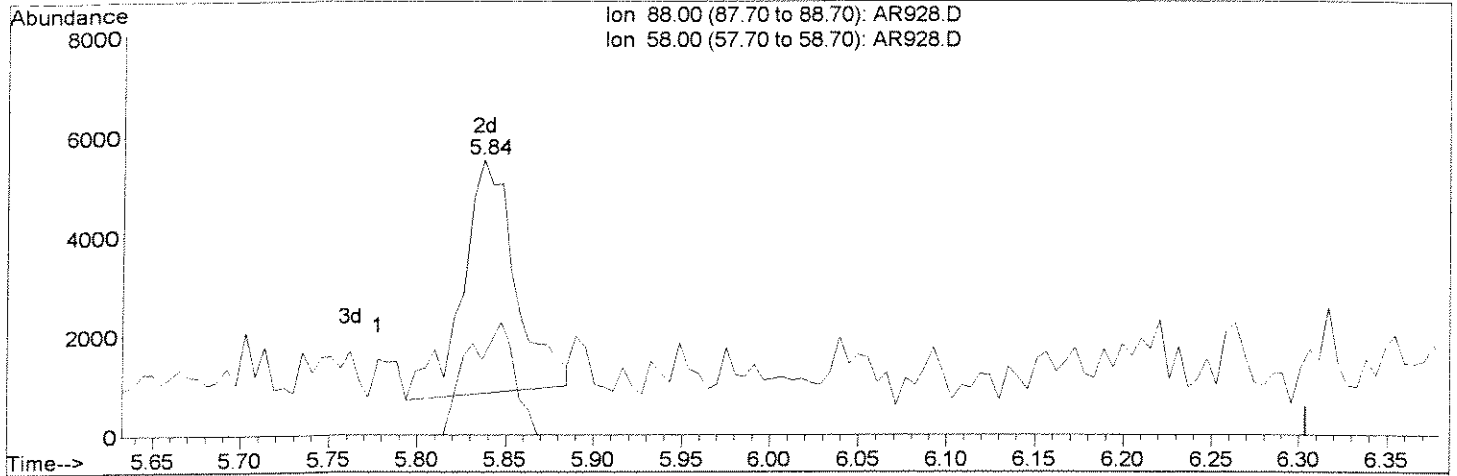
response 742

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR928.D Vial: 2
Acq On : 26 Jun 2008 5:31 pm Operator: J.Wu
Sample : INITIAL CALIBRATION Inst : 5973C
Misc : 0.1/0.2 PPM STD 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 8:44 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 08:43:11 2008
Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)

5.84min 0.19ppm m

response 9894

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	27.34#
0.00	0.00	0.00
0.00	0.00	0.00

A *6/27* *1/17*

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR929.D Vial: 3
 Acq On : 26 Jun 2008 6:06 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.2/0.4 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:47:06 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:47:00 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	73658	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	283360	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	157813	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	270913	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	238878	1.00	ppm	0.00
33) d12-Perylene	21.31	264	170599	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	30751	0.21	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	10.50%#		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	41822	0.21	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	10.50%#		
28) SURR6,TERPHENYL-D14	16.25	244	38219	0.20	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	10.00%#		

Target Compounds

						Qvalue
2) 1,4-Dioxane	5.82	88	19318	0.42	ppm	99
3) Pyridine	6.81	79	25702m	0.20	ppm	
6) Nitrobenzene	11.29	77	33718	0.22	ppm	86
7) Naphthalene	11.97	128	60211	0.23	ppm	92
8) 2-Methylnaphthalene	12.60	142	38509	0.22	ppm	92
9) 1-Methylnaphthalene	12.70	142	35879	0.21	ppm	94
12) Acenaphthylene	13.42	152	50418	0.19	ppm	96
14) Acenaphthene	13.58	153	36409	0.21	ppm	97
15) Dibenzofuran	13.72	168	53021	0.21	ppm	96
16) Fluorene	14.00	166	34897	0.20	ppm	98
19) Hexachlorobenzene	14.49	284	13919	0.22	ppm	87
20) Phenanthrene	14.76	178	54347	0.21	ppm	98
21) Anthracene	14.80	178	50330	0.20	ppm	94
22) Carbazole	14.91	167	39945	0.21	ppm	97
23) Octachlorostyrene	15.70	380	3008	0.19	ppm	92
24) Di-n-butylphthalate	15.15	149	55040	0.20	ppm	97
25) Fluoranthene	15.89	202	52531	0.20	ppm	94
27) Pyrene	16.15	202	56558	0.22	ppm	97
29) Butylbenzylphthalate	16.85	149	19152	0.18	ppm	97
31) Benzo(a)anthracene	17.78	228	48380	0.20	ppm	98
32) Chrysene	17.86	228	54507	0.22	ppm	99
34) Di-n-octylphthalate	18.97	149	26314	0.14	ppm	96
35) Benzo(b)fluoranthene	20.17	252	44807	0.21	ppm	84
36) Benzo(k)fluoranthene	20.24	252	42140	0.20	ppm	90
37) Benzo(a)pyrene	21.14	252	31296	0.17	ppm	86
38) Indeno(1,2,3-cd)Pyrene	24.42	276	32623	0.15	ppm	89

(#) = qualifier out of range (m) = manual integration
 AR929.D LVI0626.M Fri Jun 27 09:58:22 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR929.D Vial: 3
 Acq On : 26 Jun 2008 6:06 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.2/0.4 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:47:06 2008 Quant Results File: LVI0626.RES

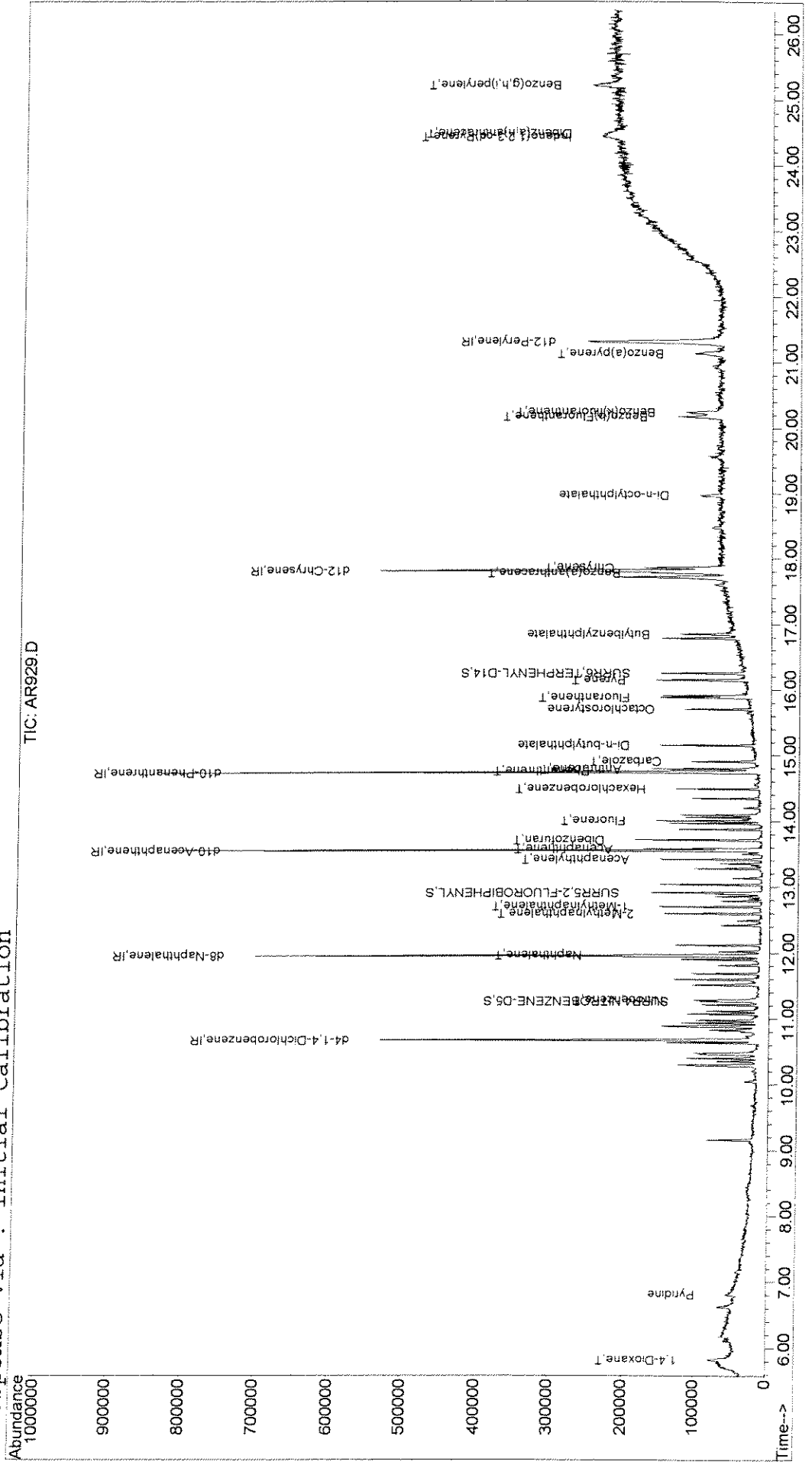
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:47:00 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Dibenz(a,h)anthracene	24.47	278	21862	0.12	ppm	97
40) Benzo(g,h,i)perylene	25.22	276	36631	0.19	ppm	90

Quantitation Report (QT Reviewed)

Data File : J:\ACQU\DATA\5973C\DATA\062608\AR929.D
 Acq On : 26 Jun 2008 6:06 pm Vial: 3
 Sample : INITIAL CALIBRATION Operator: J.Wu
 Misc : 0.2/0.4 PPM STD 8270.LL Inst : 5973C
 MS Integration Params: RTEINT.P Multiplr: 1.00
 Quant Time: Jun 27 9:58 2008 Quant Results File: LVI0626.RES

Method : J:\ACQU\DATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



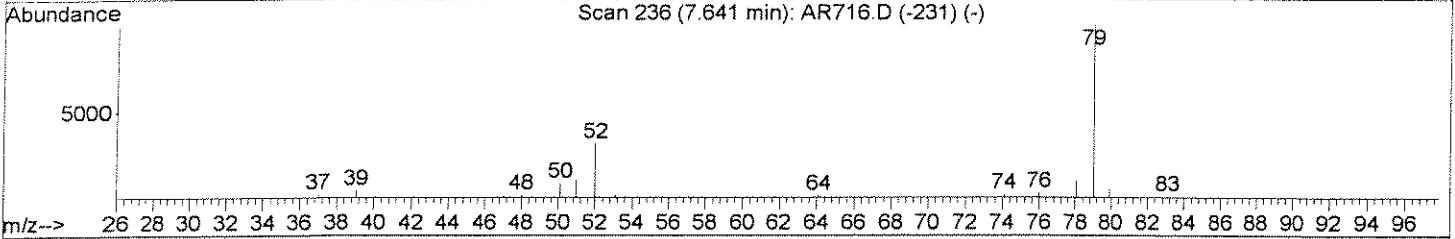
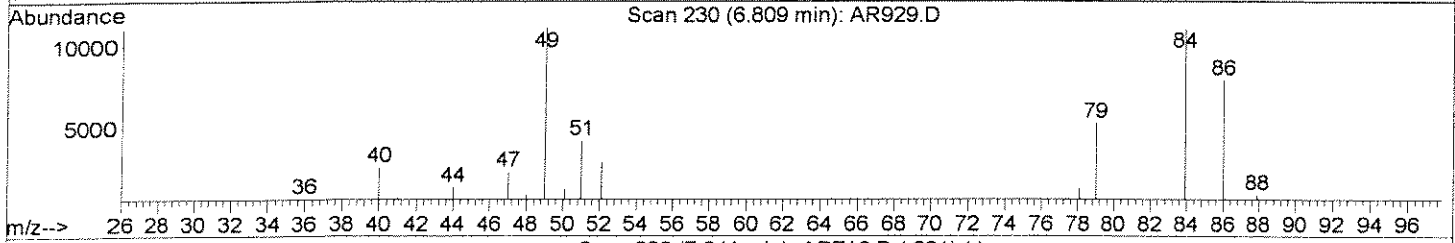
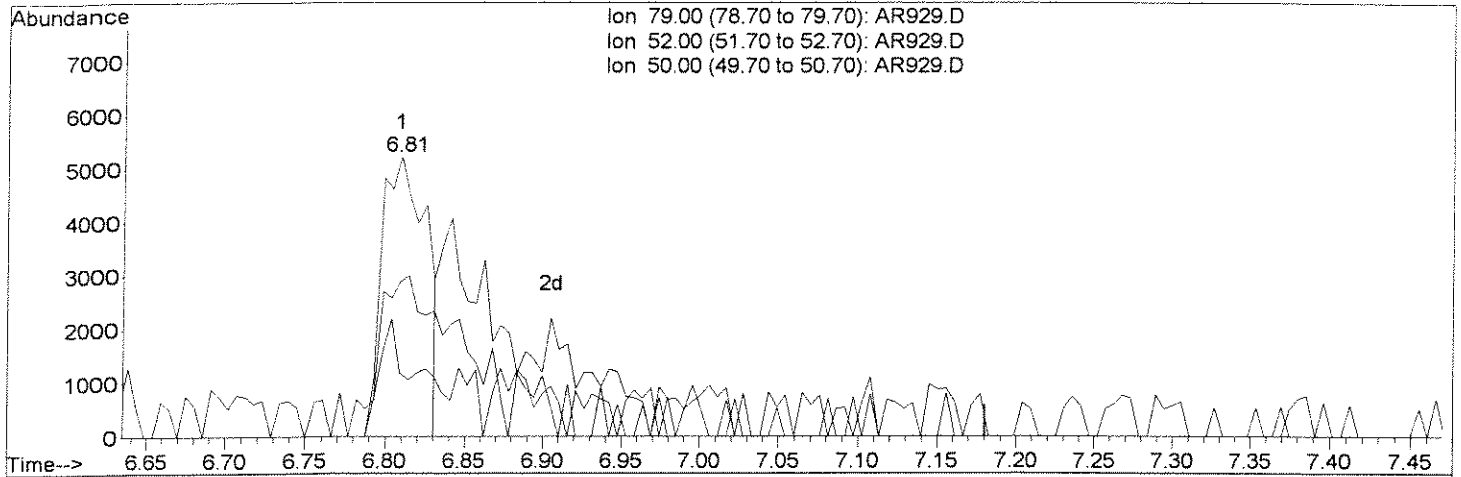
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR929.D
 Acq On : 26 Jun 2008 6:06 pm
 Sample : INITIAL CALIBRATION
 Misc : 0.2/0.4 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:47 2008

Vial: 3
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:47:00 2008
 Response via : Multiple Level Calibration



TIC: AR929.D

(3) Pyridine

6.81min 0.08ppm

response 10092

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	45.81
50.00	17.50	7.53
0.00	0.00	0.00

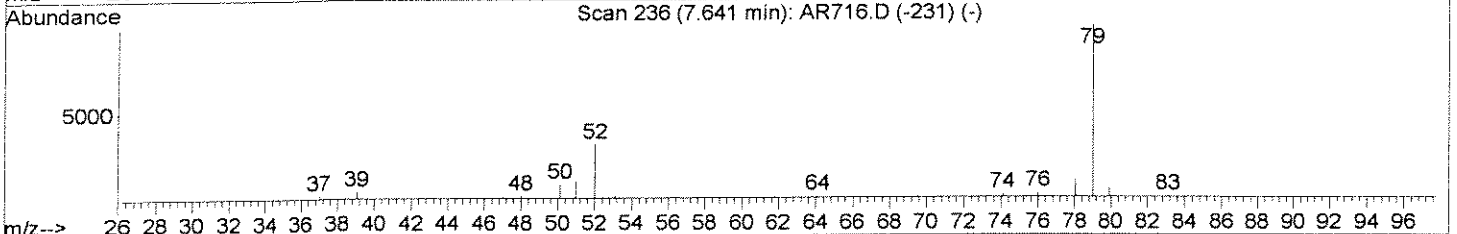
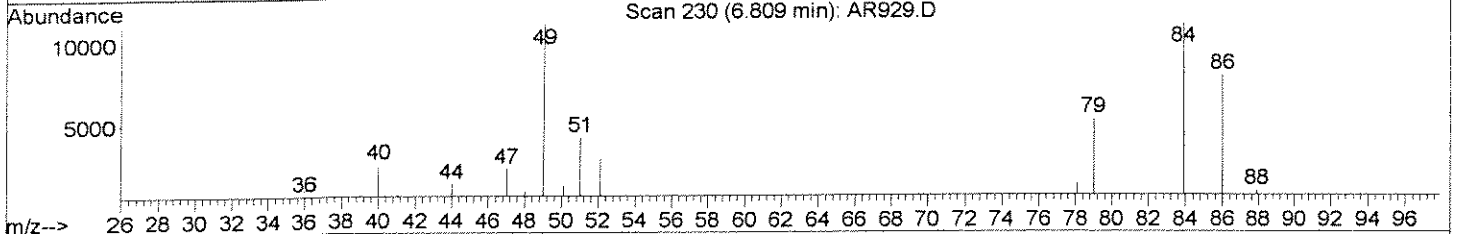
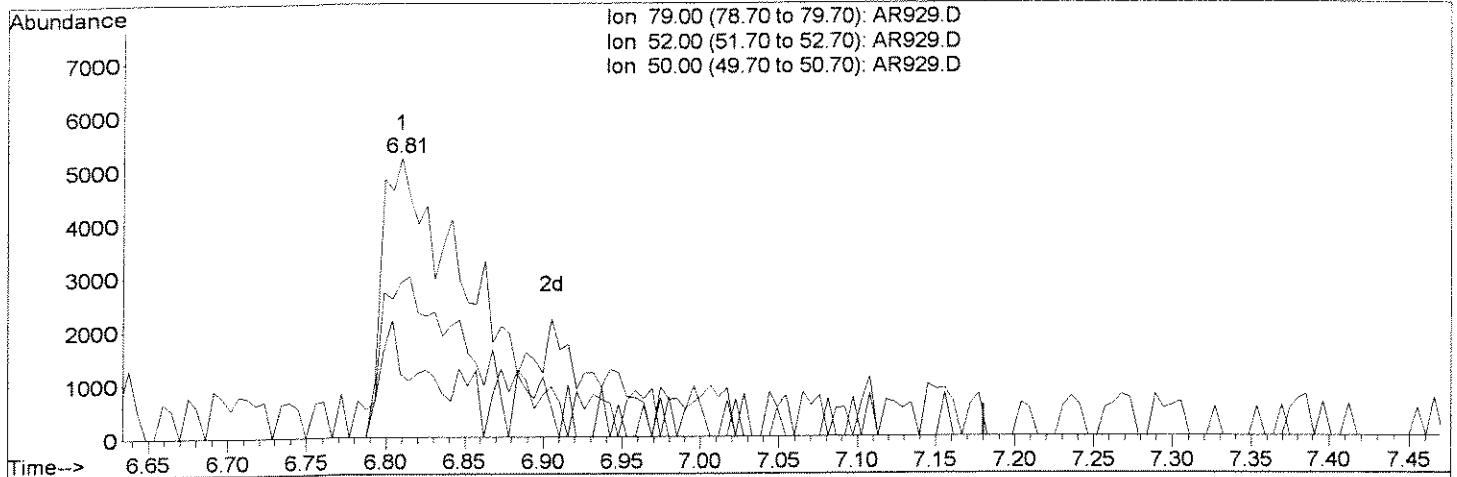
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR929.D
 Acq On : 26 Jun 2008 6:06 pm
 Sample : INITIAL CALIBRATION
 Misc : 0.2/0.4 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:47 2008

Vial: 3
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:47:00 2008
 Response via : Multiple Level Calibration



TIC: AR929.D

(3) Pyridine

6.81min 0.20ppm m

response 25702

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	55.35
50.00	17.50	22.67
0.00	0.00	0.00

A ← 6/27

J.W. 6/27

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR930.D Vial: 4
 Acq On : 26 Jun 2008 6:40 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.5/1.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:49:20 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:49:15 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	73219	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	290183	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	157430	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	275602	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	258932	1.00	ppm	0.00
33) d12-Perylene	21.31	264	191246	1.00	ppm	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	81109	0.55	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery	=	27.50%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	106952	0.54	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery	=	27.00%	
28) SURR6,TERPHENYL-D14	16.25	244	104745	0.52	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery	=	26.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.81	88	42768	0.96	ppm	93
3) Pyridine	6.75	79	70640m	0.56	ppm	
6) Nitrobenzene	11.29	77	85700	0.55	ppm	94
7) Naphthalene	11.97	128	150195	0.55	ppm	99
8) 2-Methylnaphthalene	12.60	142	93767	0.52	ppm	89
9) 1-Methylnaphthalene	12.70	142	94400	0.54	ppm	98
12) Acenaphthylene	13.42	152	137970	0.53	ppm	98
13) Dimethyl phthalate	13.28	163	96267	0.54	ppm	99
14) Acenaphthene	13.58	153	90727	0.53	ppm	98
15) Dibenzofuran	13.72	168	135804	0.55	ppm	99
16) Fluorene	14.00	166	94045	0.53	ppm	98
17) Diethylphthalate	13.88	149	92879	0.53	ppm	100
19) Hexachlorobenzene	14.49	284	36723	0.57	ppm	98
20) Phenanthrene	14.76	178	142416	0.55	ppm	100
21) Anthracene	14.80	178	135843	0.54	ppm	96
22) Carbazole	14.91	167	107998	0.57	ppm	100
23) Octachlorostyrene	15.70	380	8597	0.55	ppm	78
24) Di-n-butylphthalate	15.15	149	140596	0.49	ppm	99
25) Fluoranthene	15.88	202	142707	0.54	ppm	99
27) Pyrene	16.15	202	152038	0.54	ppm	97
29) Butylbenzylphthalate	16.85	149	56006	0.48	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.72	149	157050	0.94	ppm	95
31) Benzo(a)anthracene	17.78	228	136003	0.52	ppm	96
32) Chrysene	17.86	228	144737	0.54	ppm	96
34) Di-n-octylphthalate	18.96	149	88652	0.43	ppm	97
35) Benzo(b)Fluoranthene	20.17	252	131024	0.54	ppm	96

(#) = qualifier out of range (m) = manual integration
 AR930.D LVI0626.M Fri Jun 27 09:58:42 2008

JW

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Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR930.D Vial: 4
 Acq On : 26 Jun 2008 6:40 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.5/1.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:49:20 2008 Quant Results File: LVI0626.RES

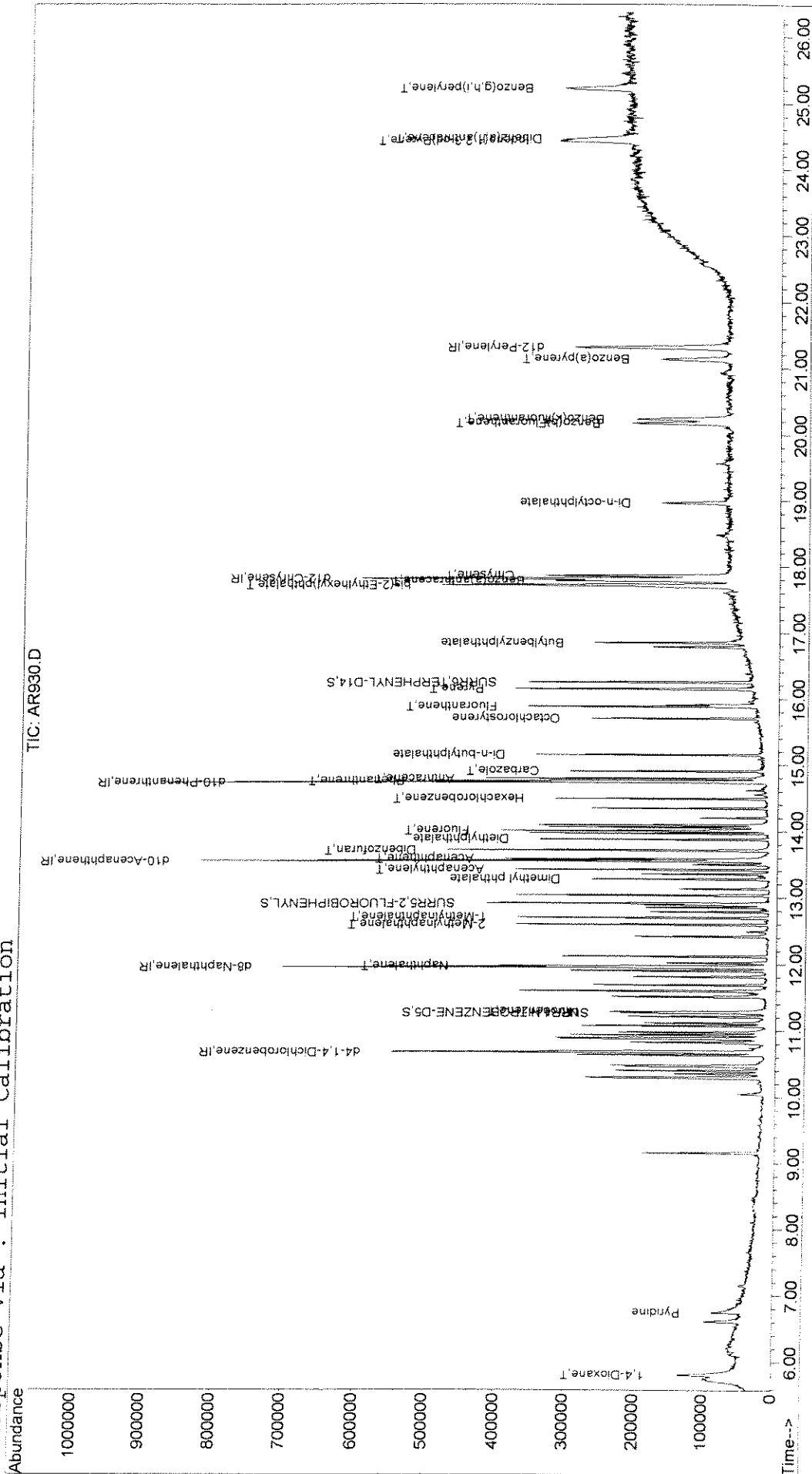
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:49:15 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	120310	0.51	ppm	98
37) Benzo(a)pyrene	21.14	252	97760	0.48	ppm	94
38) Indeno(1,2,3-cd)Pyrene	24.42	276	110173	0.47	ppm	99
39) Dibenz(a,h)anthracene	24.46	278	89154	0.45	ppm	90
40) Benzo(g,h,i)perylene	25.22	276	113265	0.53	ppm	97

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR930.D
 Acq On : 26 Jun 2008 6:40 pm Vial: 4
 Sample : INITIAL CALIBRATION Operator: J.Wu
 Misc : 0.5/1.0 PPM STD 8270.LL Inst : 5973C
 MS Integration Params: RTEINT.P Multiplr: 1.00
 Quant Time: Jun 27 8:49 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



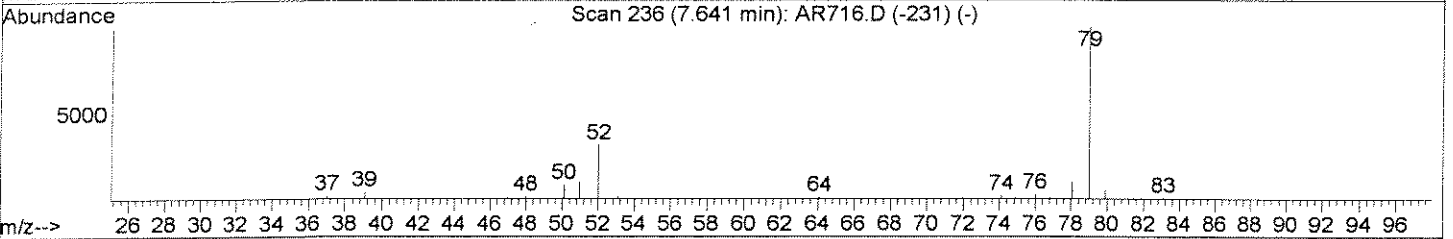
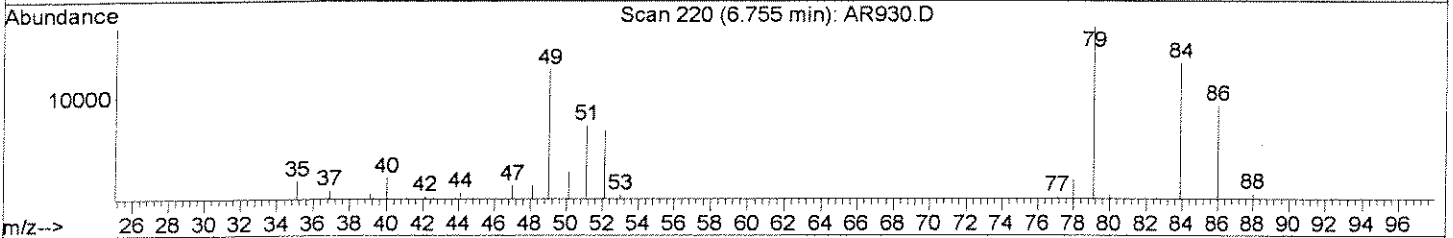
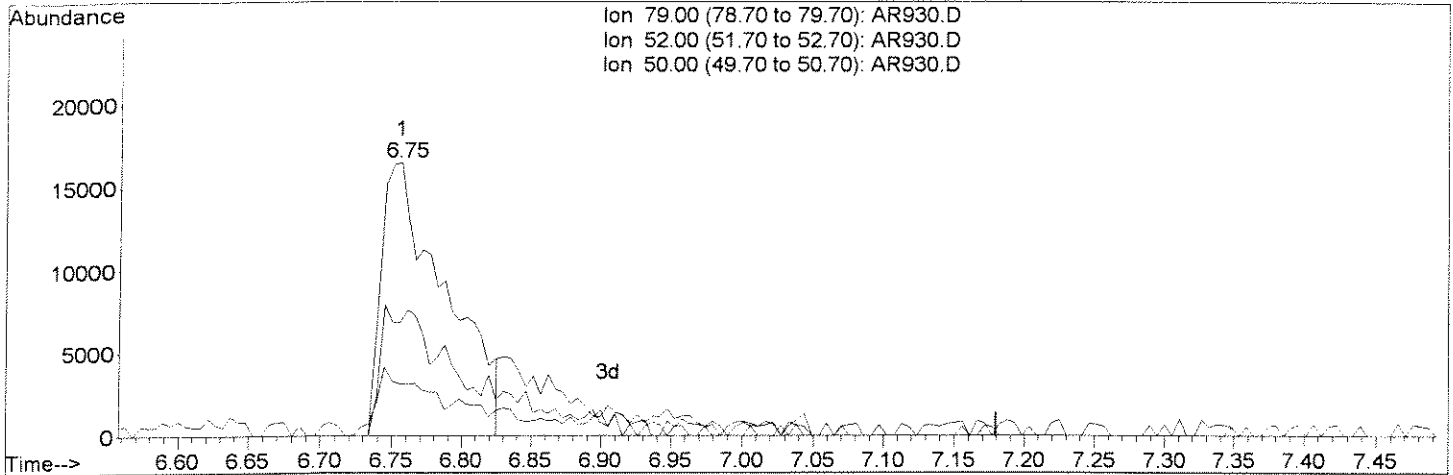
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR930.D
Acq On : 26 Jun 2008 6:40 pm
Sample : INITIAL CALIBRATION
Misc : 0.5/1.0 PPM STD 8270.LL
MS Integration Params: RTEINT.P
Quant Time: Jun 27 8:49 2008

Vial: 4
Operator: J.Wu
Inst : 5973C
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 08:49:15 2008
Response via : Multiple Level Calibration



TIC: AR930.D

(3) Pyridine

6.75min 0.41ppm

response 52136

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	40.90
50.00	17.50	14.88
0.00	0.00	0.00

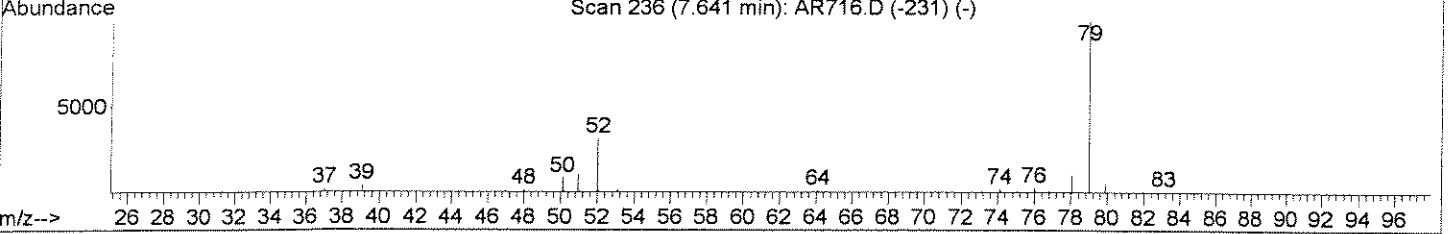
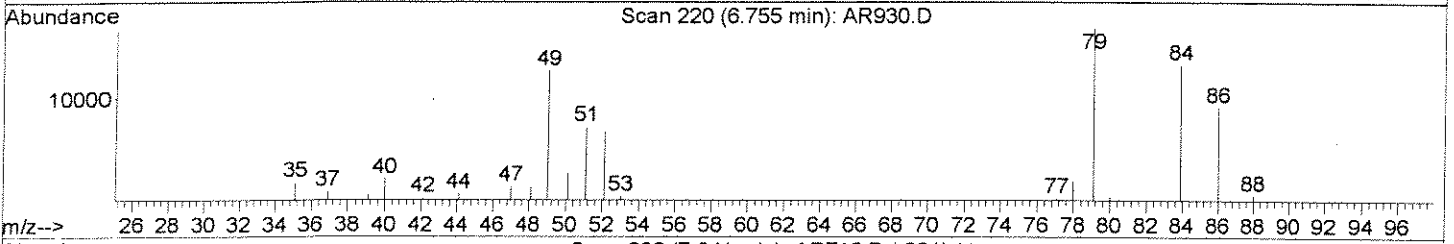
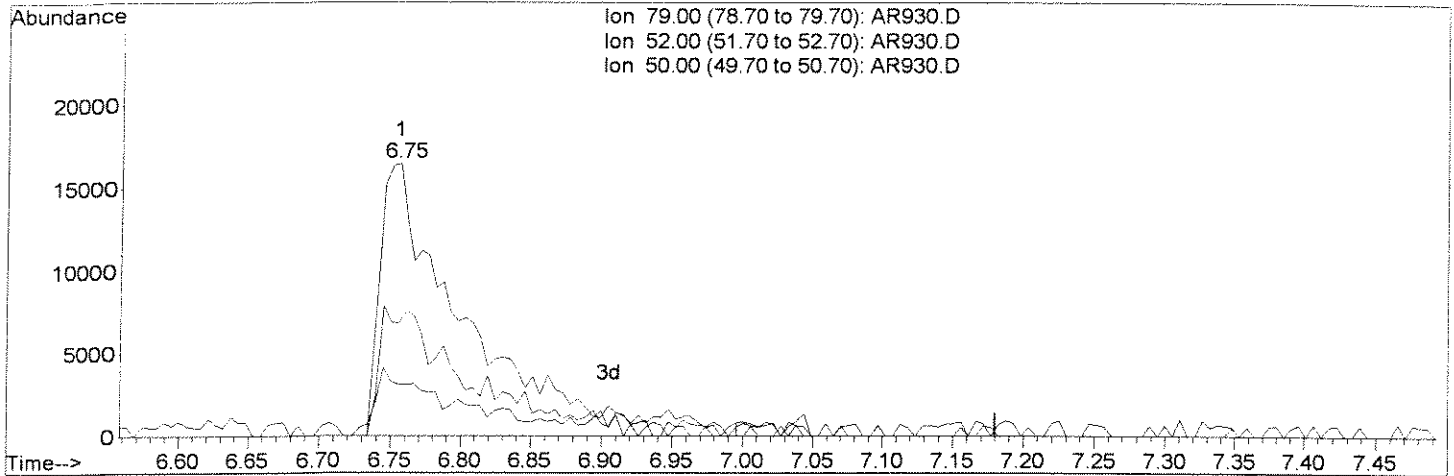
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR930.D
 Acq On : 26 Jun 2008 6:40 pm
 Sample : INITIAL CALIBRATION
 Misc : 0.5/1.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:49 2008

Vial: 4
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:49:15 2008
 Response via : Multiple Level Calibration



TIC: AR930.D

(3) Pyridine

6.75min 0.56ppm m

response 70640

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	41.63
50.00	17.50	18.97
0.00	0.00	0.00

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Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR931.D Vial: 5
 Acq On : 26 Jun 2008 7:15 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 1.0/2.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:50:20 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:50:15 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	76711	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	307986	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	161035	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	297814	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	281593	1.00	ppm	0.00
33) d12-Perylene	21.31	264	208023	1.00	ppm	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	168947	1.07	ppm	0.00
Spiked Amount 2.000	Range	22 - 124	Recovery	=	53.50%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	224858	1.11	ppm	0.00
Spiked Amount 2.000	Range	27 - 114	Recovery	=	55.50%	
28) SURR6,TERPHENYL-D14	16.25	244	230305	1.05	ppm	0.00
Spiked Amount 2.000	Range	23 - 139	Recovery	=	52.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.80	88	81937	1.82	ppm	97
3) Pyridine	6.71	79	144368m	1.09	ppm	
6) Nitrobenzene	11.29	77	175730	1.06	ppm	98
7) Naphthalene	11.97	128	308228	1.07	ppm	99
8) 2-Methylnaphthalene	12.59	142	198250	1.04	ppm	99
9) 1-Methylnaphthalene	12.70	142	190307	1.03	ppm	98
12) Acenaphthylene	13.42	152	293899	1.10	ppm	98
13) Dimethyl phthalate	13.28	163	185757	1.01	ppm	99
14) Acenaphthene	13.58	153	189882	1.10	ppm	96
15) Dibenzofuran	13.72	168	276142	1.09	ppm	99
16) Fluorene	14.00	166	203917	1.12	ppm	95
17) Diethylphthalate	13.88	149	198265	1.11	ppm	98
19) Hexachlorobenzene	14.49	284	72109	1.03	ppm	97
20) Phenanthrene	14.76	178	300285	1.07	ppm	98
21) Anthracene	14.79	178	285416	1.05	ppm	96
22) Carbazole	14.90	167	233744	1.16	ppm	99
23) Octachlorostyrene	15.70	380	17949	1.08	ppm	94
24) Di-n-butylphthalate	15.15	149	303287	0.98	ppm	98
25) Fluoranthene	15.88	202	293931	1.02	ppm	99
27) Pyrene	16.15	202	315379	1.03	ppm	98
29) Butylbenzylphthalate	16.85	149	129187	1.01	ppm	90
30) bis(2-Ethylhexyl)phthalate	17.72	149	370991	2.03	ppm	98
31) Benzo(a)anthracene	17.78	228	301492	1.07	ppm	98
32) Chrysene	17.86	228	301837	1.04	ppm	98
34) Di-n-octylphthalate	18.96	149	222700	1.01	ppm	99
35) Benzo(b)Fluoranthene	20.17	252	285358	1.08	ppm	100

(#) = qualifier out of range (m) = manual integration
 AR931.D LVI0626.M Fri Jun 27 09:58:52 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR931.D Vial: 5
 Acq On : 26 Jun 2008 7:15 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 1.0/2.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:50:20 2008 Quant Results File: LVI0626.RES

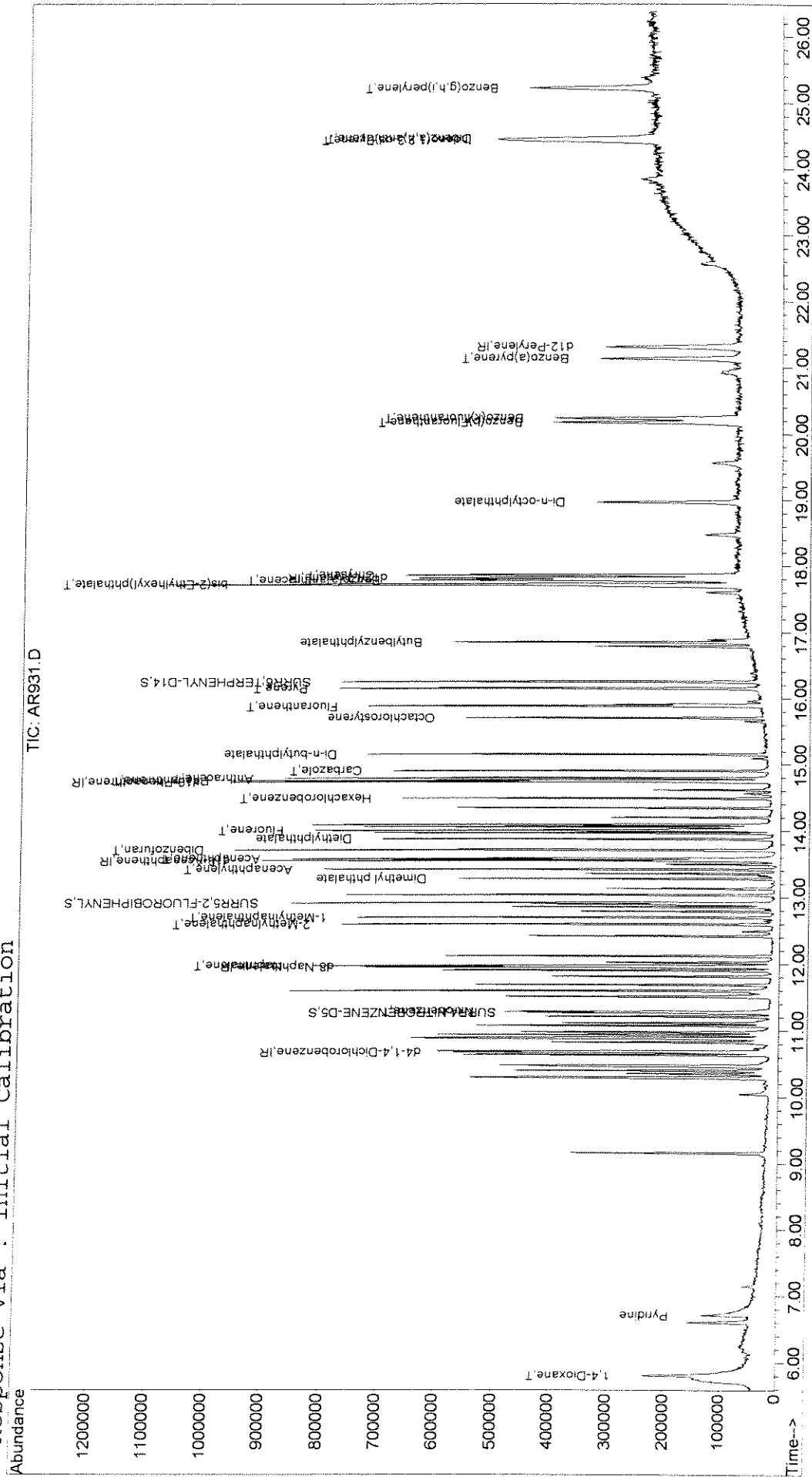
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:50:15 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	279751	1.09	ppm	92
37) Benzo(a)pyrene	21.13	252	231715	1.05	ppm	99
38) Indeno(1,2,3-cd)Pyrene	24.42	276	276695	1.12	ppm	93
39) Dibenz(a,h)anthracene	24.45	278	223920	1.07	ppm	95
40) Benzo(g,h,i)perylene	25.21	276	259596	1.14	ppm	96

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR931.D Vial: 5
 Acq On : 26 Jun 2008 7:15 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 1.0/2.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:50 2008 Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



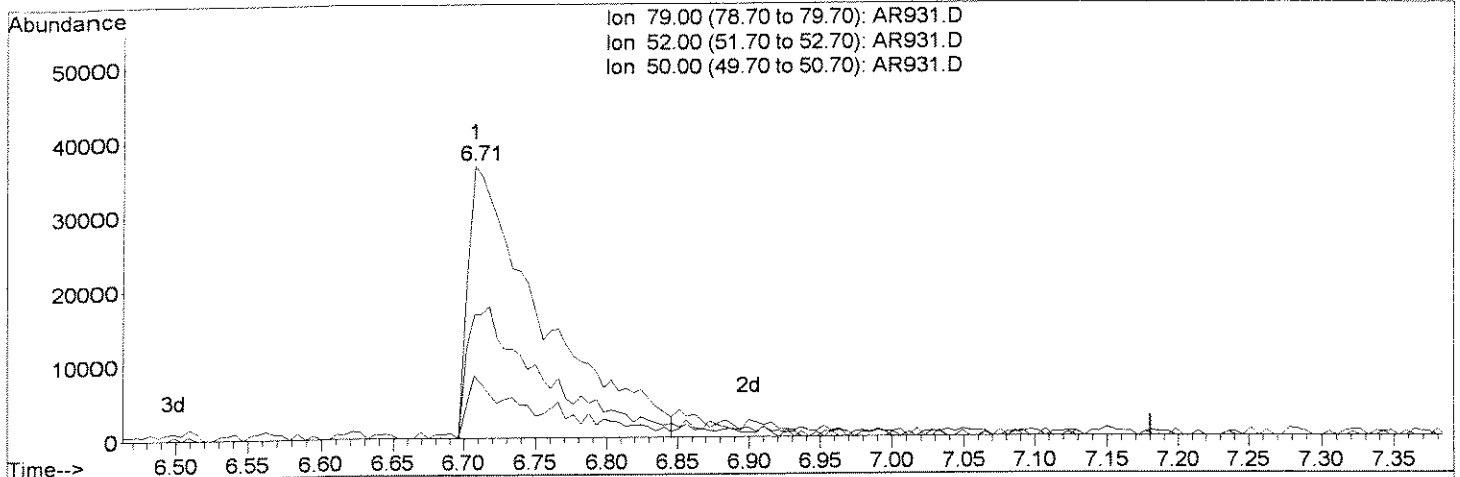
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR931.D
 Acq On : 26 Jun 2008 7:15 pm
 Sample : INITIAL CALIBRATION
 Misc : 1.0/2.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:50 2008

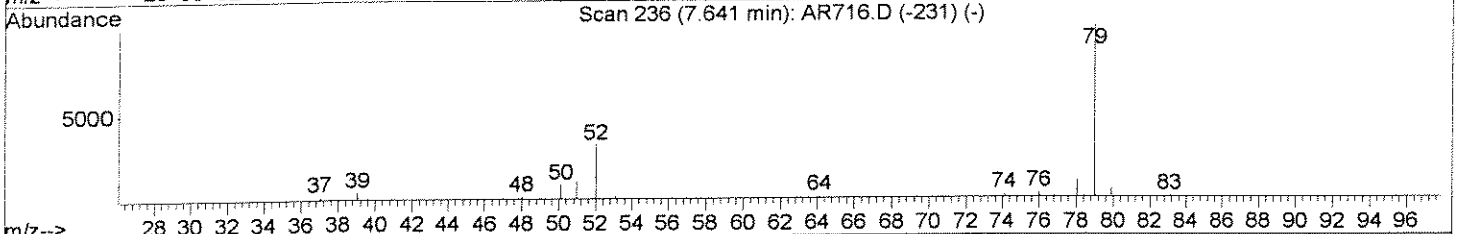
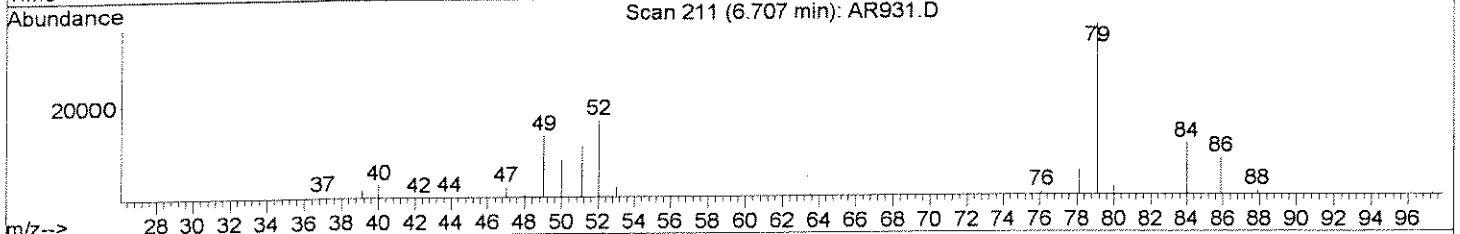
Vial: 5
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:50:15 2008
 Response via : Multiple Level Calibration



Ion 79.00 (78.70 to 79.70): AR931.D
 Ion 52.00 (51.70 to 52.70): AR931.D
 Ion 50.00 (49.70 to 50.70): AR931.D



TIC: AR931.D

(3) Pyridine

6.71min 1.00ppm

response 132554

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	44.24
50.00	17.50	21.68
0.00	0.00	0.00

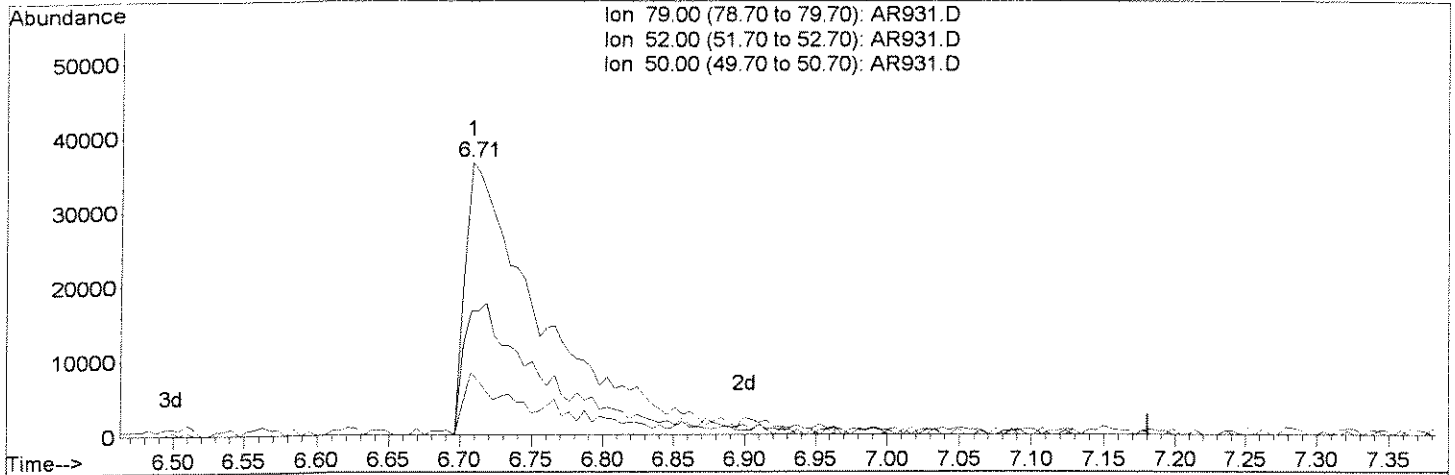
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR931.D
 Acq On : 26 Jun 2008 7:15 pm
 Sample : INITIAL CALIBRATION
 Misc : 1.0/2.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:50 2008

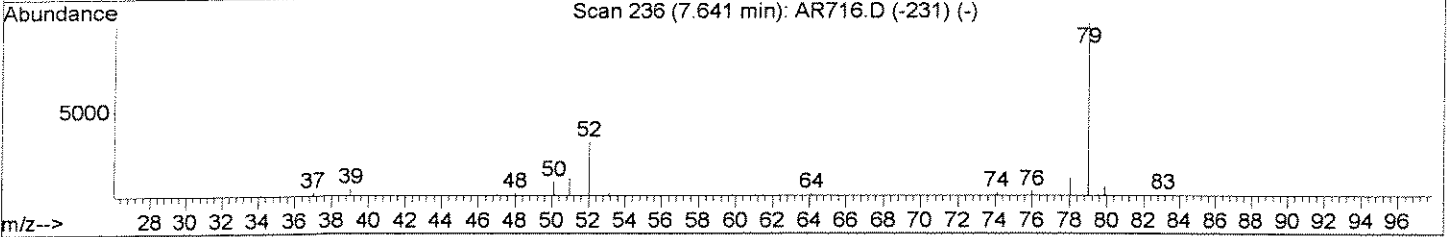
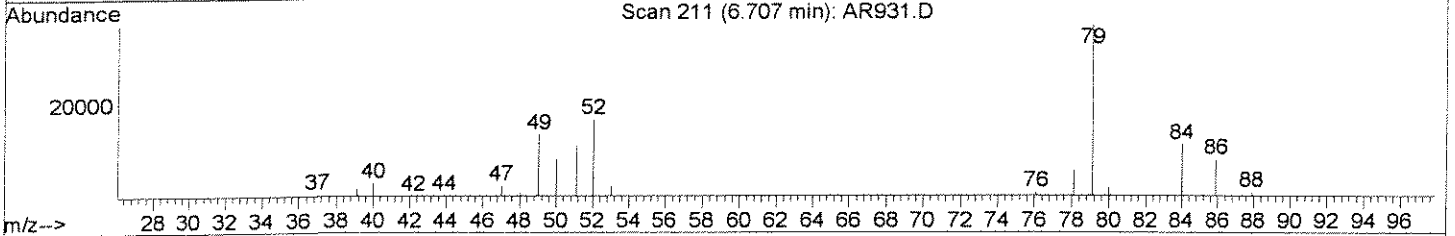
Vial: 5
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:50:15 2008
 Response via : Multiple Level Calibration



Ion 79.00 (78.70 to 79.70): AR931.D
 Ion 52.00 (51.70 to 52.70): AR931.D
 Ion 50.00 (49.70 to 50.70): AR931.D



TIC: AR931.D

(3) Pyridine

6.71min 1.09ppm m
 response 144368

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Ion	Exp%	Act%
79.00	100	100
52.00	45.40	45.22
50.00	17.50	22.75
0.00	0.00	0.00

and 4/17

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR932.D Vial: 6
 Acq On : 26 Jun 2008 7:50 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:39:18 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:39:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	83643	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	327832	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	150391	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	318860	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	299259	1.00	ppm	0.00
33) d12-Perylene	21.32	264	229592	1.00	ppm	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
5) SURR4,NITROBENZENE-D5	11.27	82	400602	2.37	ppm	0.00
Spiked Amount 2.000	Range 22	- 124	Recovery	=	118.50%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	519403	2.73	ppm	0.00
Spiked Amount 2.000	Range 27	- 114	Recovery	=	136.50%#	
28) SURR6,TERPHENYL-D14	16.25	244	539944	2.34	ppm	0.00
Spiked Amount 2.000	Range 23	- 139	Recovery	=	117.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.80	88	188388	3.51	ppm	100
3) Pyridine	6.68	79	332767	2.26	ppm	100
6) Nitrobenzene	11.29	77	402505	2.29	ppm	100
7) Naphthalene	11.97	128	698403	2.26	ppm	100
8) 2-Methylnaphthalene	12.60	142	460947	2.27	ppm	100
9) 1-Methylnaphthalene	12.70	142	454549	2.31	ppm	100
12) Acenaphthylene	13.42	152	680592	2.73	ppm	100
13) Dimethyl phthalate	13.28	163	447166	2.59	ppm	100
14) Acenaphthene	13.58	153	435274	2.70	ppm	100
15) Dibenzofuran	13.72	168	658705	2.79	ppm	100
16) Fluorene	14.00	166	467280	2.73	ppm	100
17) Diethylphthalate	13.88	149	474144	2.81	ppm	100
19) Hexachlorobenzene	14.49	284	166018	2.23	ppm	100
20) Phenanthrene	14.76	178	690625	2.28	ppm	100
21) Anthracene	14.80	178	669504	2.31	ppm	100
22) Carbazole	14.91	167	514640	2.30	ppm	100
23) Octachlorostyrene	15.71	380	41855	2.18	ppm	100
24) Di-n-butylphthalate	15.15	149	743107	2.35	ppm	100
25) Fluoranthene	15.88	202	721159	2.33	ppm	100
27) Pyrene	16.15	202	754022	2.34	ppm	100
29) Butylbenzylphthalate	16.85	149	331969	2.46	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.72	149	937044	4.84	ppm	100
31) Benzo(a)anthracene	17.79	228	711165	2.37	ppm	100
32) Chrysene	17.86	228	709607	2.32	ppm	100
34) Di-n-octylphthalate	18.97	149	616857	2.69	ppm	100
35) Benzo(b)Fluoranthene	20.17	252	677347	2.34	ppm	100

(#) = qualifier out of range (m) = manual integration
 AR932.D LVI0626.M Fri Jun 27 09:59:01 2008



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR932.D Vial: 6
 Acq On : 26 Jun 2008 7:50 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:39:18 2008 Quant Results File: LVI0626.RES

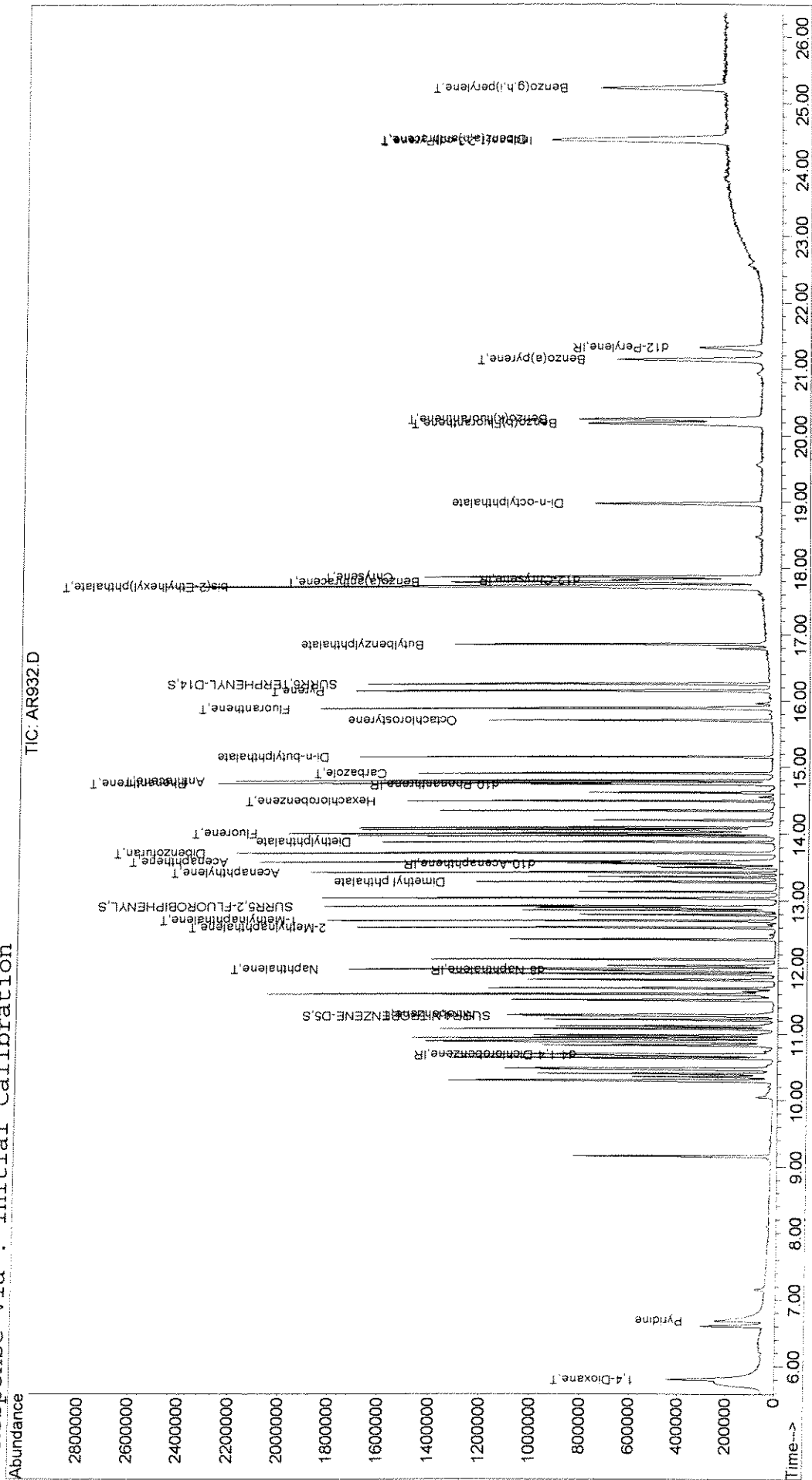
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:39:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.24	252	672963	2.37	ppm	100
37) Benzo(a)pyrene	21.14	252	581019	2.38	ppm	100
38) Indeno(1,2,3-cd)Pyrene	24.42	276	698474	2.33	ppm	100
39) Dibenz(a,h)anthracene	24.45	278	591083	2.24	ppm	100
40) Benzo(g,h,i)perylene	25.22	276	607446	2.28	ppm	100

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR932.D
 Acq On : 26 Jun 2008 7:50 pm Vial: 6
 Sample : INITIAL CALIBRATION Operator: J.Wu
 Misc : 2.0/4.0 PPM STD 8270.LL Inst : 5973C
 MS Integration Params: RTEINT.P Multiplr: 1.00
 Quant Time: Jun 27 8:39 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR933.D Vial: 7
 Acq On : 26 Jun 2008 8:25 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 3.0/6.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:51:44 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:51:36 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	87577	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	334383	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	129857	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	323458	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	317124	1.00	ppm	0.00
33) d12-Perylene	21.31	264	235878	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	575466	3.36	ppm	0.00
Spiked Amount 2.000	Range 22	- 124	Recovery	=	168.00%#	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	757721	4.61	ppm	0.00
Spiked Amount 2.000	Range 27	- 114	Recovery	=	230.50%#	
28) SURR6,TERPHENYL-D14	16.25	244	804202	3.27	ppm	0.00
Spiked Amount 2.000	Range 23	- 139	Recovery	=	163.50%#	

Target Compounds

						Qvalue
2) 1,4-Dioxane	5.81	88	279224	5.55	ppm	89
3) Pyridine	6.68	79	483878	3.19	ppm	94
6) Nitrobenzene	11.29	77	586563	3.25	ppm	99
7) Naphthalene	11.97	128	1038913	3.30	ppm	99
8) 2-Methylnaphthalene	12.60	142	686766	3.32	ppm	95
9) 1-Methylnaphthalene	12.70	142	670451	3.35	ppm	98
12) Acenaphthylene	13.42	152	995132	4.58	ppm	99
13) Dimethyl phthalate	13.28	163	611787	4.16	ppm	98
14) Acenaphthene	13.58	153	619927	4.40	ppm	96
15) Dibenzofuran	13.72	168	954204	4.62	ppm	99
16) Fluorene	14.00	166	683705	4.62	ppm	100
17) Diethylphthalate	13.88	149	688884	4.76	ppm	99
19) Hexachlorobenzene	14.49	284	248002	3.27	ppm	98
20) Phenanthrene	14.76	178	1017385	3.33	ppm	99
21) Anthracene	14.79	178	1009610	3.43	ppm	99
22) Carbazole	14.91	167	741389	3.39	ppm	100
23) Octachlorostyrene	15.71	380	61376	3.43	ppm	84
24) Di-n-butylphthalate	15.15	149	1104444	3.29	ppm	99
25) Fluoranthene	15.88	202	1071291	3.45	ppm	100
27) Pyrene	16.15	202	1119101	3.25	ppm	99
29) Butylbenzylphthalate	16.85	149	502193	3.49	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.72	149	1402038m	6.81	ppm	
31) Benzo(a)anthracene	17.79	228	1046093	3.30	ppm	97
32) Chrysene	17.86	228	1028240	3.15	ppm	98
34) Di-n-octylphthalate	18.97	149	961544	3.84	ppm	99
35) Benzo(b)Fluoranthene	20.18	252	1032569	3.44	ppm	98

(#) = qualifier out of range (m) = manual integration
 AR933.D LVI0626.M Fri Jun 27 09:59:08 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR933.D Vial: 7
 Acq On : 26 Jun 2008 8:25 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 3.0/6.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:51:44 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:51:36 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

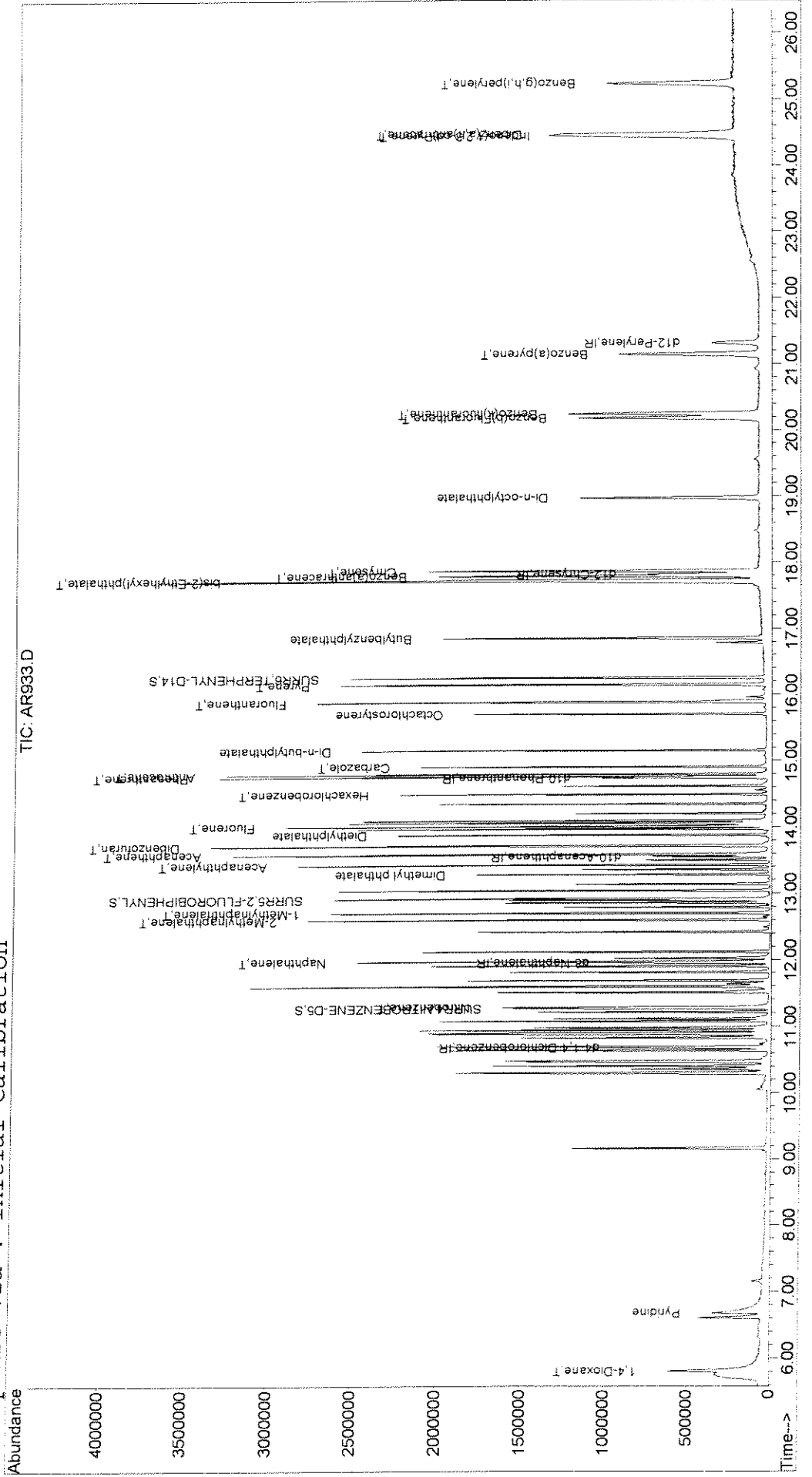
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.24	252	959763	3.28	ppm	98
37) Benzo(a)pyrene	21.14	252	869335	3.48	ppm	97
38) Indeno(1,2,3-cd)Pyrene	24.43	276	1024315	3.66	ppm	99
39) Dibenz(a,h)anthracene	24.46	278	876790	3.78	ppm	99
40) Benzo(g,h,i)perylene	25.22	276	884938	3.42	ppm	100



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR933.D Vial: 7
 Acq On : 26 Jun 2008 8:25 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 3.0/6.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:52 2008 Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



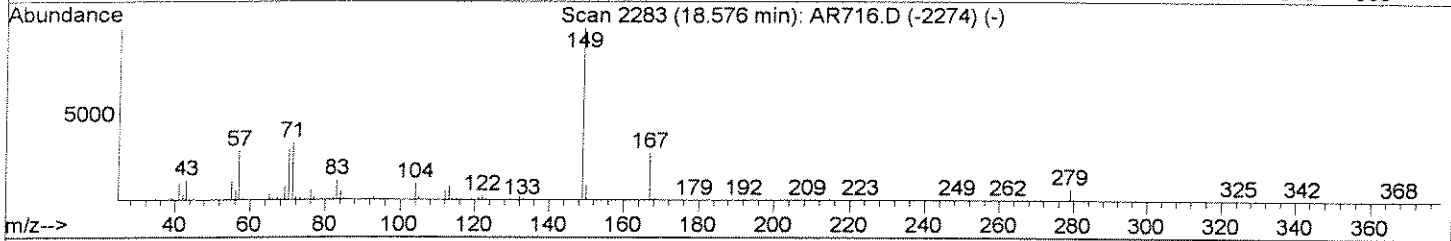
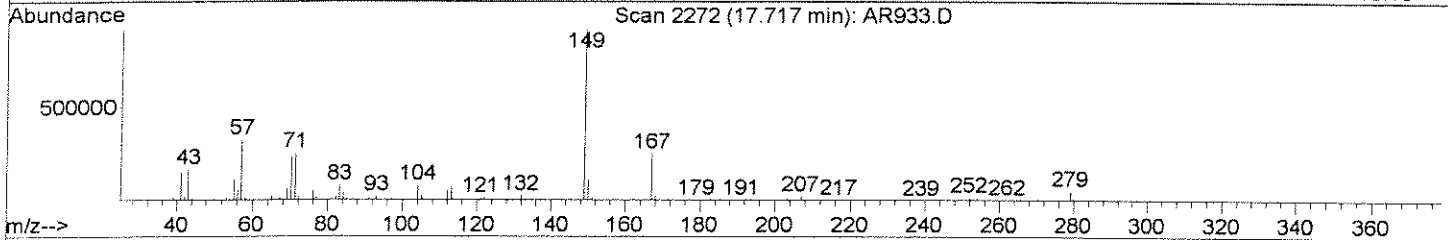
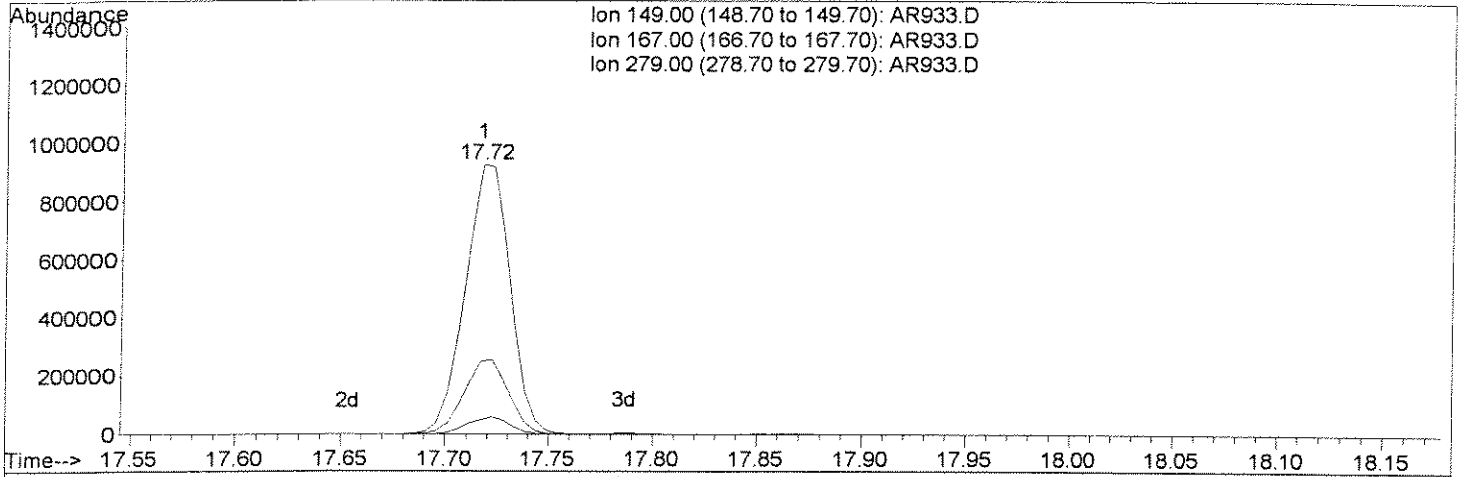
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR933.D
 Acq On : 26 Jun 2008 8:25 pm
 Sample : INITIAL CALIBRATION
 Misc : 3.0/6.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:51 2008

Vial: 7
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:51:36 2008
 Response via : Single Level Calibration



TIC: AR933.D

(30) bis(2-Ethylhexyl)phthalate (T)

17.72min 6.81ppm

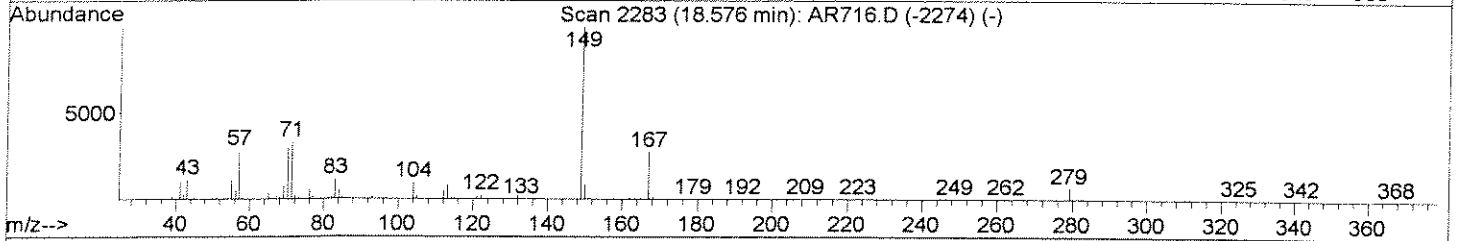
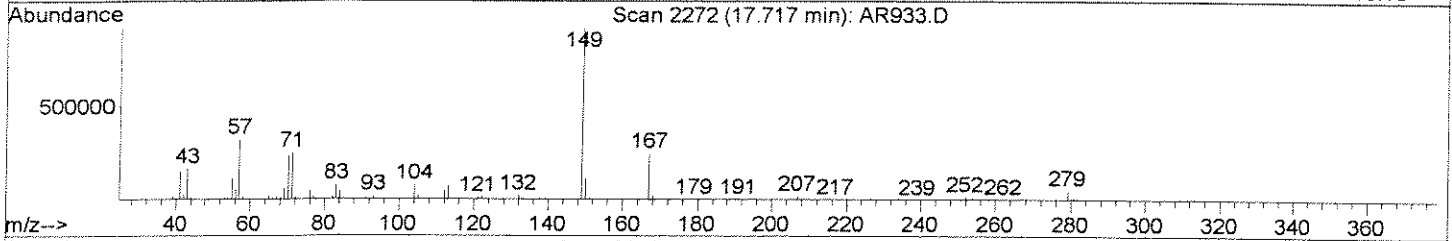
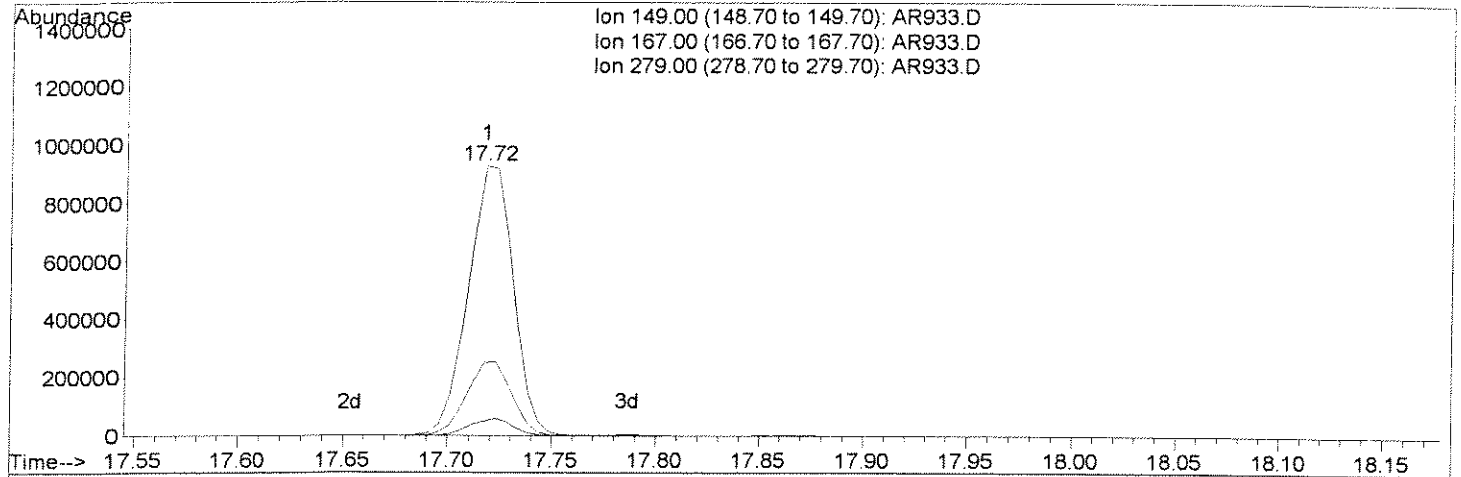
response 1402753

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	27.26
279.00	6.90	5.37#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR933.D Vial: 7
 Acq On : 26 Jun 2008 8:25 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 3.0/6.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:52 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:51:36 2008
 Response via : Single Level Calibration



TIC: AR933.D

(30) bis(2-Ethylhexyl)phthalate (T)

17.72min 6.81ppm m

response 1402038

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	27.27
279.00	6.90	5.36#
0.00	0.00	0.00

A Jun 6/27

mv 6/27

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR934.D Vial: 8
 Acq On : 26 Jun 2008 9:00 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 4.0/8.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:53:07 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:53:01 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	84205	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	324268	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	127078	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	323546	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	307349	1.00	ppm	0.00
33) d12-Perylene	21.31	264	228576	1.00	ppm	0.00

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	772412	4.65	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	232.50%#
11) SURR5,2-FLUOROBIPHENYL	12.91	172	1025302	6.04	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	302.00%#
28) SURR6,TERPHENYL-D14	16.25	244	1089617	4.56	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	228.00%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.80	88	373769	8.06	ppm	98
3) Pyridine	6.66	79	654281	4.53	ppm	98
6) Nitrobenzene	11.29	77	790917	4.52	ppm	95
7) Naphthalene	11.97	128	1388619	4.54	ppm	98
8) 2-Methylnaphthalene	12.59	142	927178	4.62	ppm	96
9) 1-Methylnaphthalene	12.70	142	910905	4.69	ppm	98
12) Acenaphthylene	13.42	152	1385236	6.21	ppm	100
13) Dimethyl phthalate	13.28	163	896104	6.03	ppm	100
14) Acenaphthene	13.58	153	856575	5.94	ppm	97
15) Dibenzofuran	13.72	168	1317991	6.18	ppm	98
16) Fluorene	14.00	166	943296	6.18	ppm	98
17) Diethylphthalate	13.88	149	937697	6.26	ppm	99
19) Hexachlorobenzene	14.49	284	347655	4.57	ppm	98
20) Phenanthrene	14.76	178	1371212	4.47	ppm	99
21) Anthracene	14.79	178	1391606	4.70	ppm	100
22) Carbazole	14.91	167	965400	4.39	ppm	99
23) Octachlorostyrene	15.71	380	86808	4.81	ppm	79
24) Di-n-butylphthalate	15.15	149	1506189	4.46	ppm	100
25) Fluoranthene	15.88	202	1457875	4.67	ppm	98
27) Pyrene	16.15	202	1538577	4.62	ppm	99
29) Butylbenzylphthalate	16.85	149	692324	4.96	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.72	149	1947318	9.78	ppm	100
31) Benzo(a)anthracene	17.79	228	1431446	4.68	ppm	99
32) Chrysene	17.87	228	1410323	4.47	ppm	98
34) Di-n-octylphthalate	18.97	149	1371529	5.66	ppm	99
35) Benzo(b)Fluoranthene	20.17	252	1356278	4.65	ppm	98

(#) = qualifier out of range (m) = manual integration
 AR934.D LVI0626.M Fri Jun 27 09:59:19 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR934.D Vial: 8
 Acq On : 26 Jun 2008 9:00 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 4.0/8.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:53:07 2008 Quant Results File: LVI0626.RES

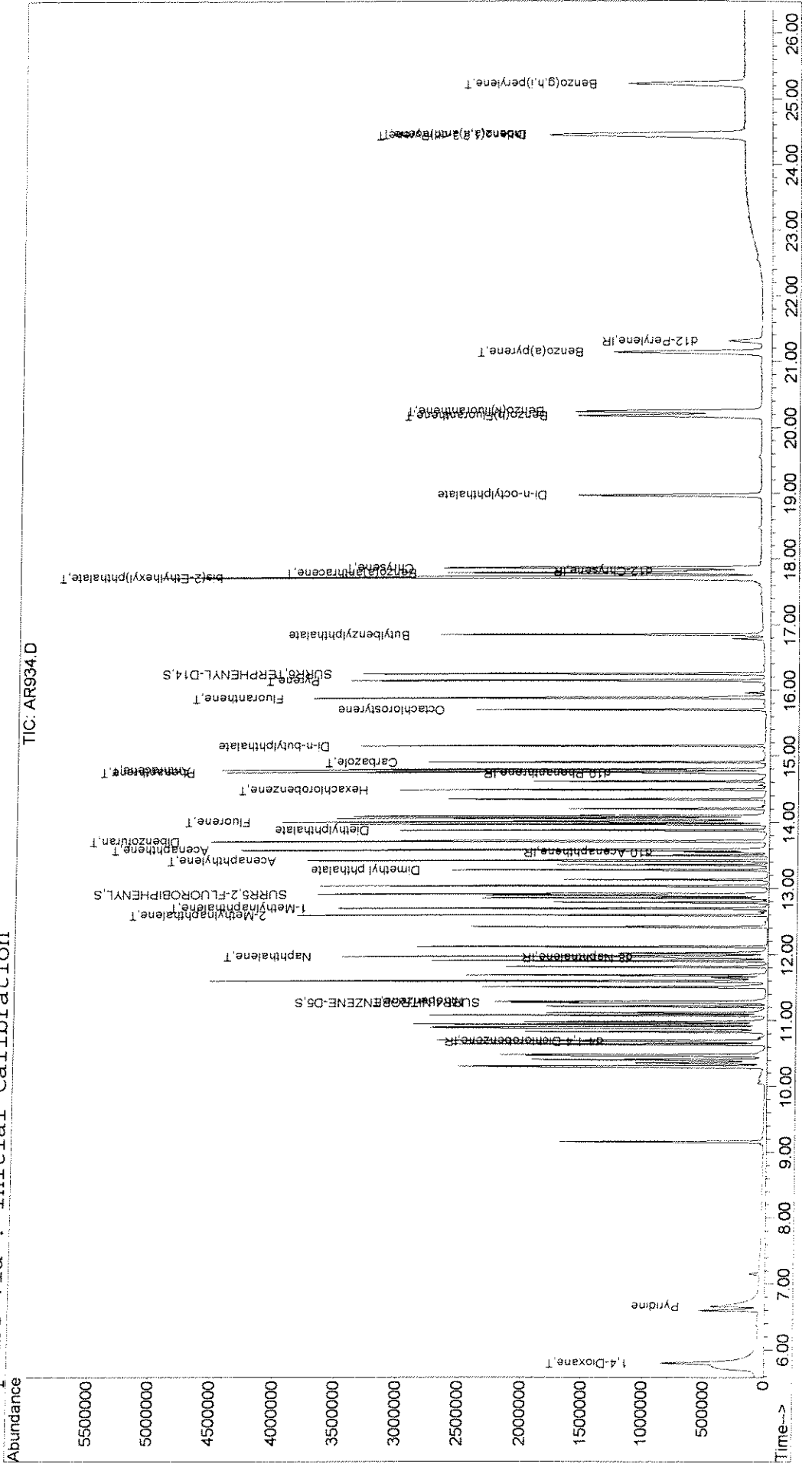
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:53:01 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.24	252	1377095	4.90	ppm	99
37) Benzo(a)pyrene	21.14	252	1222974	5.06	ppm	99
38) Indeno(1,2,3-cd)Pyrene	24.43	276	1410237	5.23	ppm	90
39) Dibenz(a,h)anthracene	24.46	278	1238045	5.56	ppm	97
40) Benzo(g,h,i)perylene	25.23	276	1169586	4.67	ppm	98

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR934.D
 Acq On : 26 Jun 2008 9:00 pm Vial: 8
 Sample : INITIAL CALIBRATION Operator: J.Wu
 Misc : 4.0/8.0 PPM STD 8270.LL Inst : 5973C
 MS Integration Params: RTEINT.P Multiplr: 1.00
 Quant Time: Jun 27 8:53 2008 Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR935.D Vial: 9
 Acq On : 26 Jun 2008 9:35 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 5.0/10 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:54:05 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:53:59 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	84766	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	320936	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	123740	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	318728	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	304724	1.00	ppm	0.00
33) d12-Perylene	21.31	264	220616	1.00	ppm	0.00

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	949009	5.75	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	287.50%#
11) SURR5,2-FLUOROBIPHENYL	12.91	172	1255183	7.22	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	361.00%#
28) SURR6,TERPHENYL-D14	16.25	244	1319502	5.58	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	279.00%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	5.80	88	457331	10.06	ppm	94
3) Pyridine	6.66	79	781818	5.41	ppm	93
6) Nitrobenzene	11.29	77	959600	5.52	ppm	97
7) Naphthalene	11.97	128	1666811	5.47	ppm	100
8) 2-Methylnaphthalene	12.60	142	1137771	5.71	ppm	96
9) 1-Methylnaphthalene	12.70	142	1109389	5.74	ppm	99
12) Acenaphthylene	13.42	152	1620826	7.10	ppm	98
13) Dimethyl phthalate	13.28	163	1041012	6.89	ppm	100
14) Acenaphthene	13.58	153	1029241	6.99	ppm	94
15) Dibenzofuran	13.72	168	1562163	7.11	ppm	97
16) Fluorene	14.00	166	1150020	7.35	ppm	96
17) Diethylphthalate	13.88	149	1133249	7.34	ppm	98
19) Hexachlorobenzene	14.50	284	422429	5.63	ppm	91
20) Phenanthrene	14.76	178	1626750	5.38	ppm	99
21) Anthracene	14.80	178	1661891	5.71	ppm	100
22) Carbazole	14.91	167	1129090	5.22	ppm	99
23) Octachlorostyrene	15.71	380	108847	6.15	ppm	97
24) Di-n-butylphthalate	15.15	149	1821371	5.49	ppm	99
25) Fluoranthene	15.88	202	1755695	5.72	ppm	97
27) Pyrene	16.15	202	1858993	5.63	ppm	98
29) Butylbenzylphthalate	16.85	149	849550	6.14	ppm	98
30) bis(2-Ethylhexyl)phthalate	17.72	149	2401972	12.20	ppm	99
31) Benzo(a)anthracene	17.79	228	1758696	5.81	ppm	98
32) Chrysene	17.87	228	1710808	5.48	ppm	98
34) Di-n-octylphthalate	18.97	149	1730303	7.39	ppm	99
35) Benzo(b)Fluoranthene	20.18	252	1688099	5.99	ppm	98

(#) = qualifier out of range (m) = manual integration

JW

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR935.D Vial: 9
 Acq On : 26 Jun 2008 9:35 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 5.0/10 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:54:05 2008 Quant Results File: LVI0626.RES

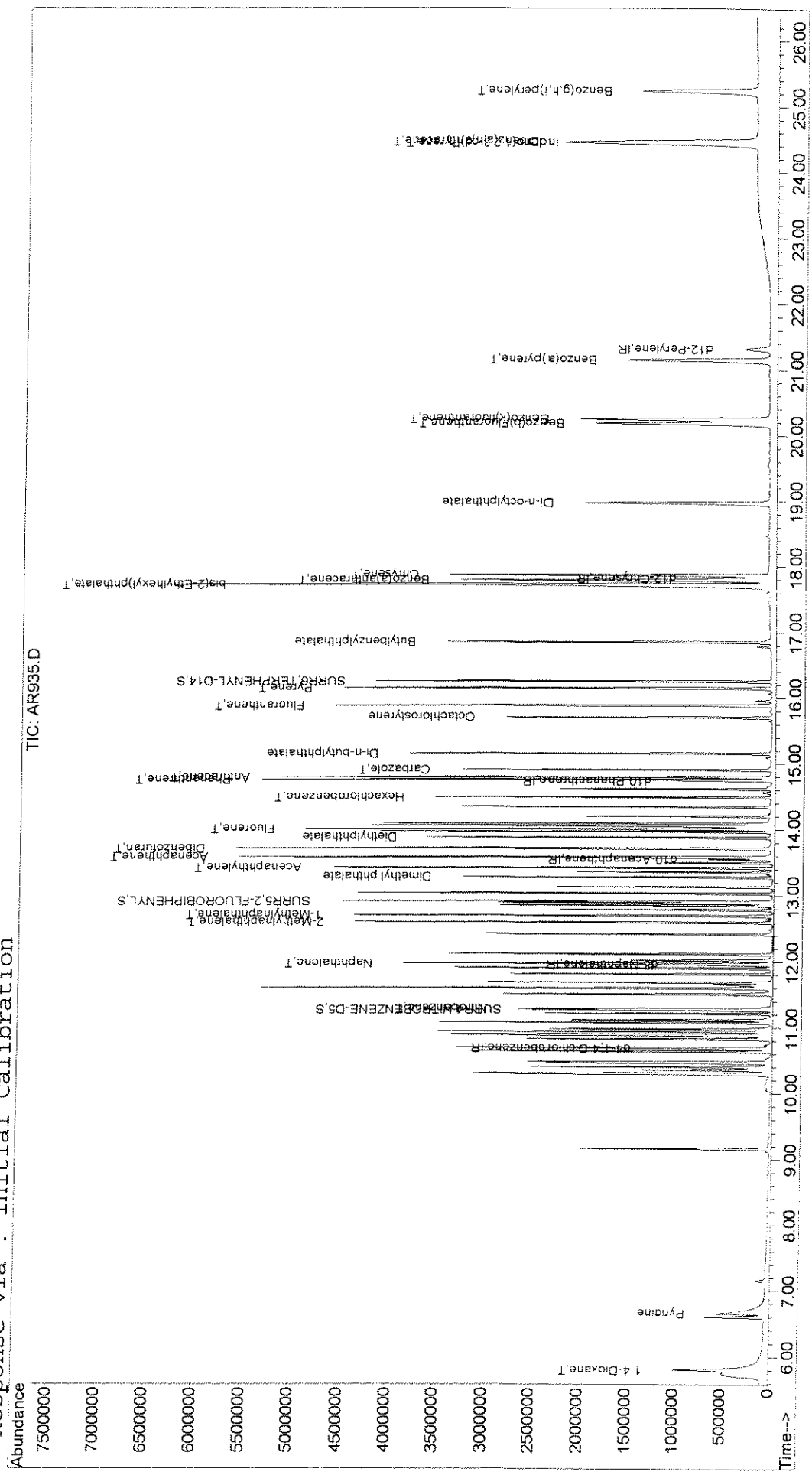
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:53:59 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.24	252	1691087	6.22	ppm	96
37) Benzo(a)pyrene	21.14	252	1496482	6.40	ppm	98
38) Indeno(1,2,3-cd)Pyrene	24.43	276	1738847	6.70	ppm	100
39) Dibenz(a,h)anthracene	24.46	278	1535063	7.17	ppm	98
40) Benzo(g,h,i)perylene	25.23	276	1407650	5.85	ppm	100

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR935.D
 Acq On : 26 Jun 2008 9:35 pm
 Sample : INITIAL CALIBRATION
 Misc : 5.0/10 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:54 2008
 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D Vial: 10
 Acq On : 26 Jun 2008 10:10 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 10/20 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:55:15 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	111373	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	391253	1.00	ppm	0.00
10) d10-Acenaphthene	13.56	164	168806	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	405770	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	405112	1.00	ppm	0.00
33) d12-Perylene	21.32	264	299743	1.00	ppm	0.00

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	2461132	12.18	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	609.00%#		
11) SURR5,2-FLUOROBIPHENYL	12.92	172	2970352	11.90	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	595.00%#		
28) SURR6,TERPHENYL-D14	16.26	244	3344476	10.66	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	533.00%#		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.80	88	1313651	22.60	ppm	96
3) Pyridine	6.64	79	2284720	12.17	ppm	95
6) Nitrobenzene	11.29	77	2415559	11.39	ppm	89
7) Naphthalene	11.97	128	3698836	9.94	ppm	83
8) 2-Methylnaphthalene	12.60	142	2868533	11.80	ppm	90
9) 1-Methylnaphthalene	12.70	142	2738834	11.58	ppm	93
12) Acenaphthylene	13.42	152	3747088	11.51	ppm	80
13) Dimethyl phthalate	13.29	163	2768001	12.97	ppm	95
14) Acenaphthene	13.58	153	2744932	13.09	ppm	90
15) Dibenzofuran	13.72	168	3542698	11.25	ppm	75
16) Fluorene	14.00	166	2828974	12.58	ppm	97
17) Diethylphthalate	13.89	149	2682257m	12.08	ppm	
19) Hexachlorobenzene	14.50	284	1139869	11.99	ppm	97
20) Phenanthrene	14.76	178	3583198	9.34	ppm	80
21) Anthracene	14.80	178	3655492	9.91	ppm	78
22) Carbazole	14.91	167	2394474	8.72	ppm	97
24) Di-n-butylphthalate	15.16	149	3764118m	8.94	ppm	
25) Fluoranthene	15.89	202	4080097	10.49	ppm	84
27) Pyrene	16.16	202	4293309	9.80	ppm	84
29) Butylbenzylphthalate	16.85	149	2330839	12.68	ppm	95
30) bis(2-Ethylhexyl)phthalate	17.73	149	5694908m	21.76	ppm	
31) Benzo(a)anthracene	17.79	228	4565937	11.36	ppm	90
32) Chrysene	17.87	228	4388707	10.58	ppm	92
34) Di-n-octylphthalate	18.97	149	4945866	15.46	ppm	98
35) Benzo(b)Fluoranthene	20.20	252	4617434	12.00	ppm	97
36) Benzo(k)fluoranthene	20.27	252	4491164	12.09	ppm	93

(#) = qualifier out of range (m) = manual integration
 AR936.D LVI0626.M Fri Jun 27 10:06:06 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D Vial: 10
 Acq On : 26 Jun 2008 10:10 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 10/20 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:55:15 2008 Quant Results File: LVI0626.RES

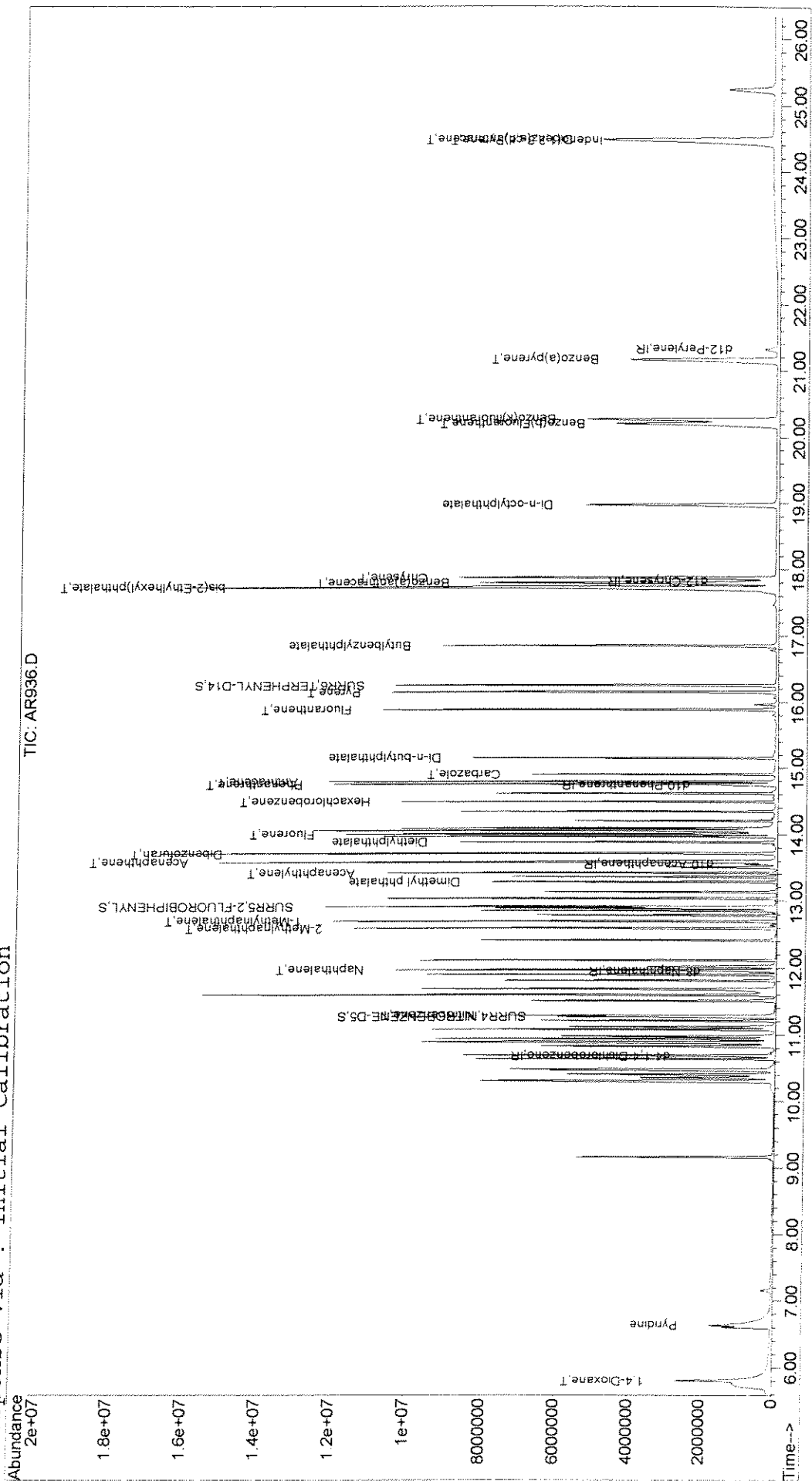
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Benzo(a)pyrene	21.16	252	4136336	12.97	ppm	99
38) Indeno(1,2,3-cd)Pyrene	24.45	276	3644595	10.34	ppm	95
39) Dibenz(a,h)anthracene	24.49	278	3619423	12.42	ppm	99

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR936.D Vial: 10
 Acq On : 26 Jun 2008 10:10 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 10/20 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:05 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



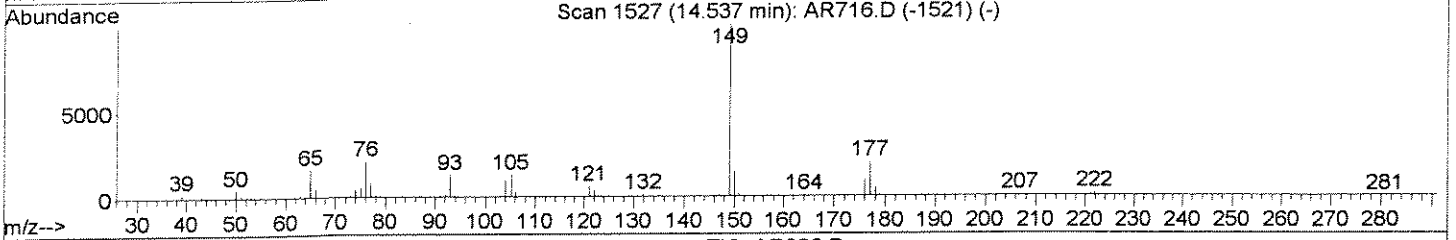
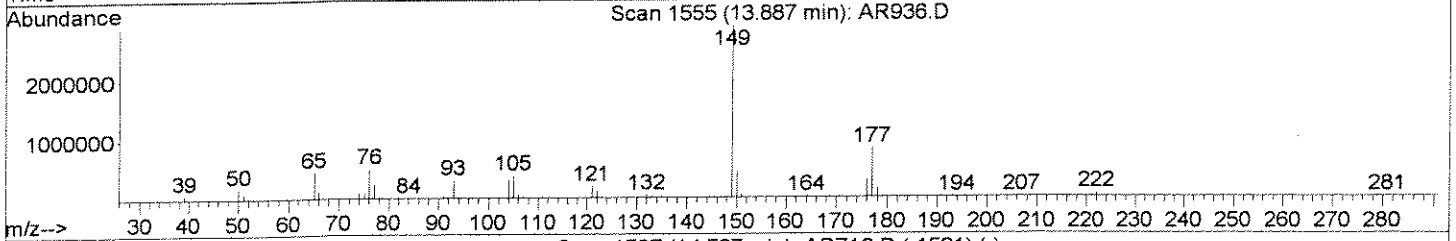
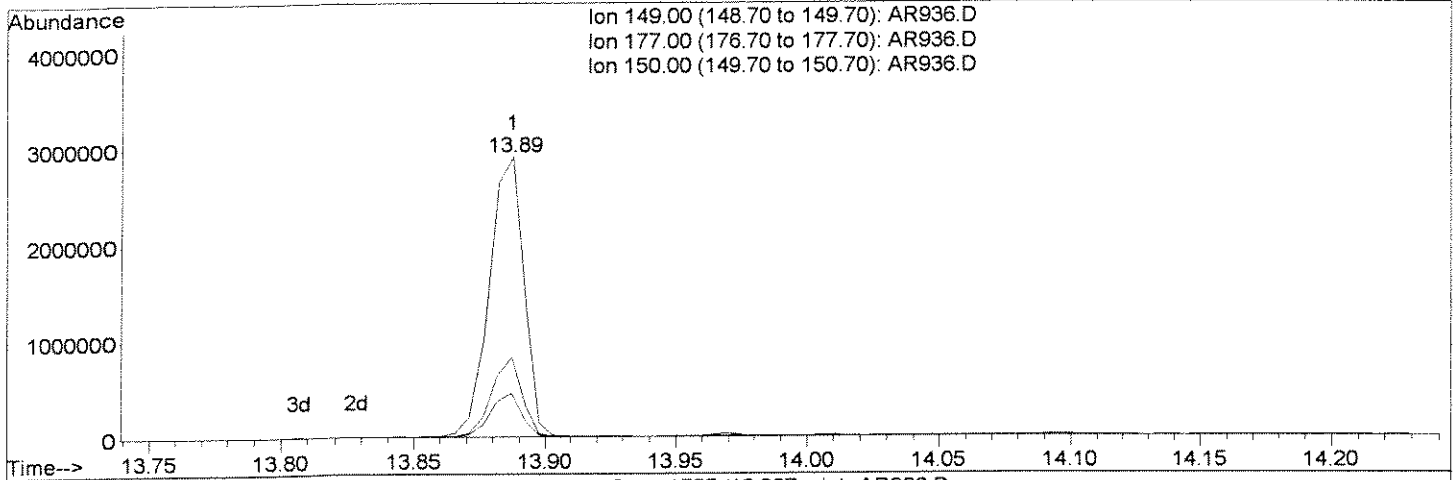
Quantitation Report (Qedit)

Data File : J:\ACQUADATA\5973C\DATA\062608\AR936.D
 Acq On : 26 Jun 2008 10:10 pm
 Sample : INITIAL CALIBRATION
 Misc : 10/20 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:55 2008

Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Multiple Level Calibration



TIC: AR936.D

(17) Diethylphthalate

13.89min 12.10ppm

response 2686768

Ion	Exp%	Act%
149.00	100	100
177.00	21.80	28.47#
150.00	11.80	15.41#
0.00	0.00	0.00

B

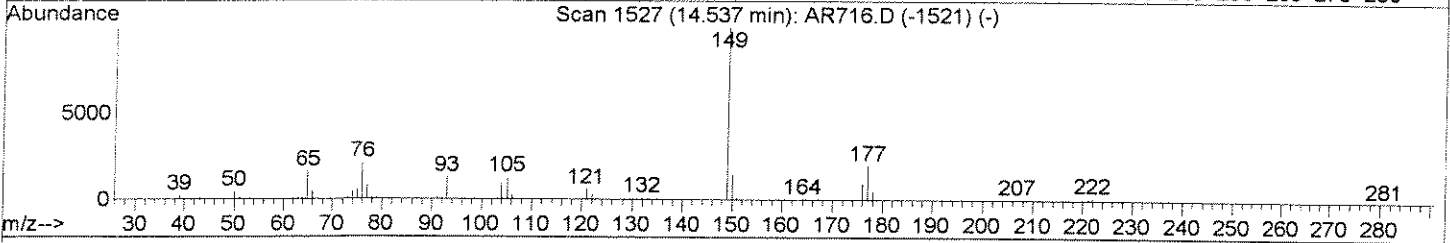
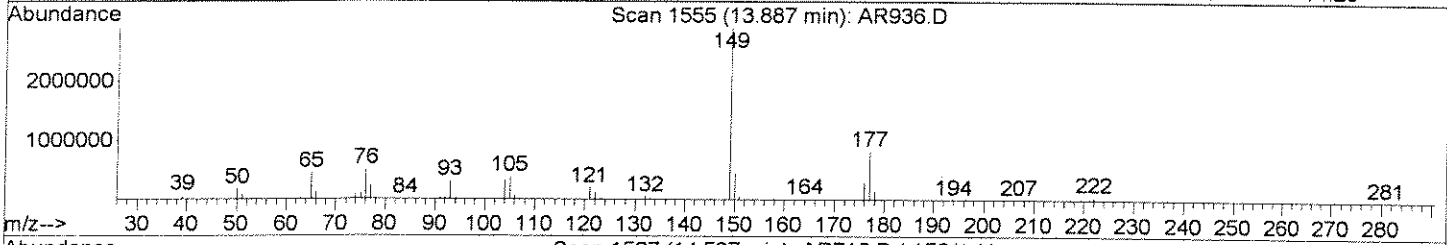
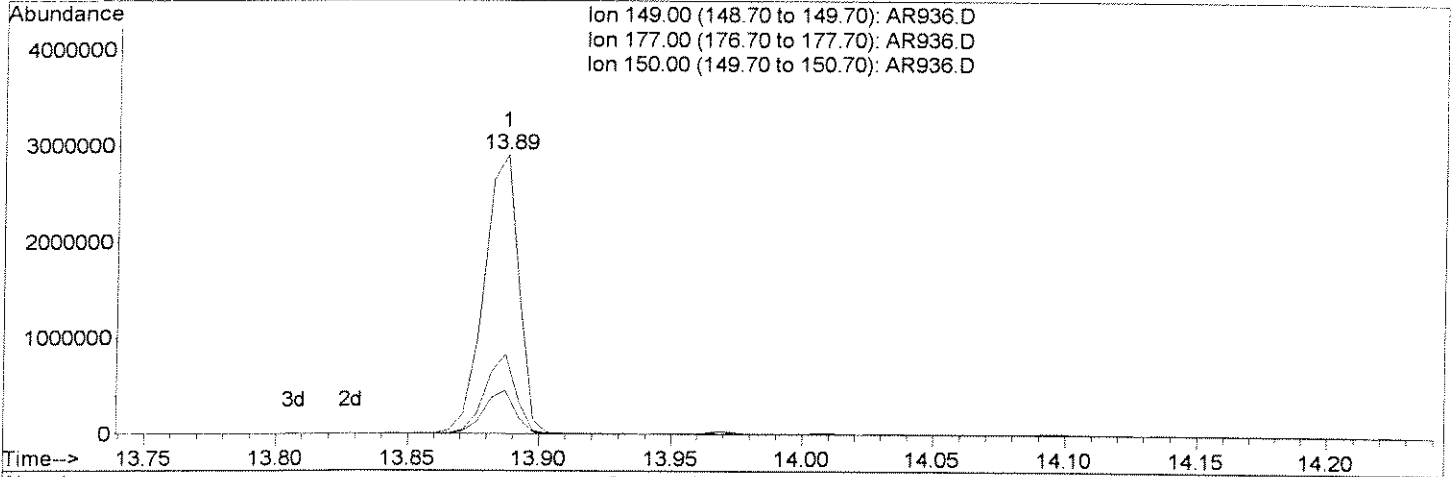
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D
Acq On : 26 Jun 2008 10:10 pm
Sample : INITIAL CALIBRATION
Misc : 10/20 PPM STD 8270.LL
MS Integration Params: RTEINT.P
Quant Time: Jun 27 8:55 2008

Vial: 10
Operator: J.Wu
Inst : 5973C
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 08:55:07 2008
Response via : Multiple Level Calibration



TIC: AR936.D

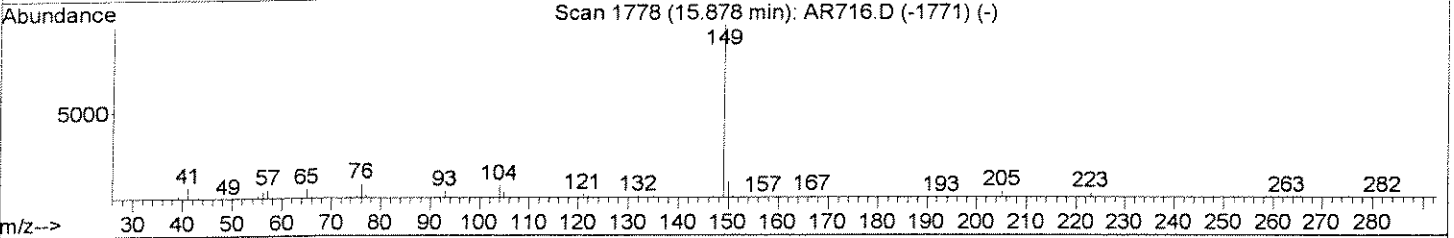
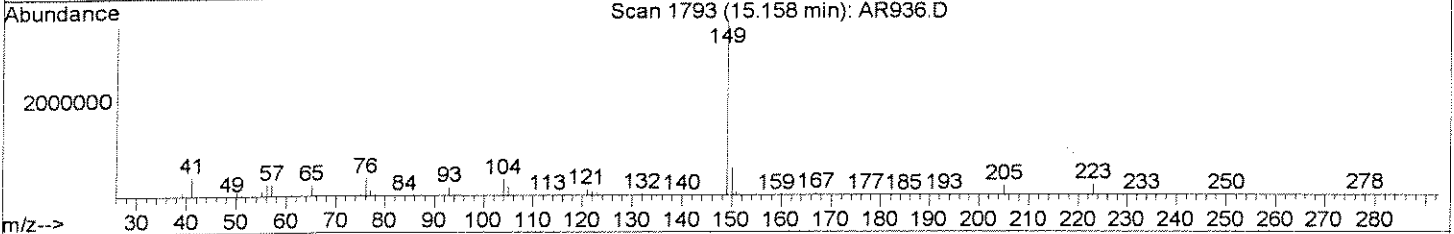
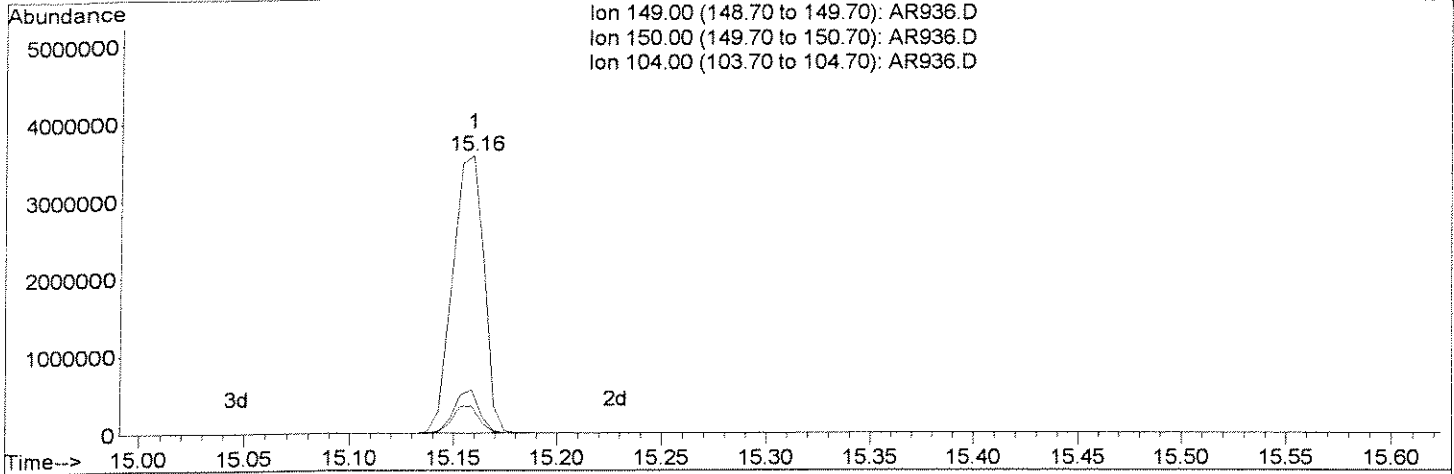
(17) Diethylphthalate
13.89min 12.08ppm m
response 2682257
Ion Exp% Act%
149.00 100 100
177.00 21.80 28.47#
150.00 11.80 15.57#
0.00 0.00 0.00

A ← 1127
100% 6/10

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D Vial: 10
 Acq On : 26 Jun 2008 10:10 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 10/20 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:55 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Multiple Level Calibration



(24) Di-n-butylphthalate

15.16min 8.95ppm
 response 3767124

13

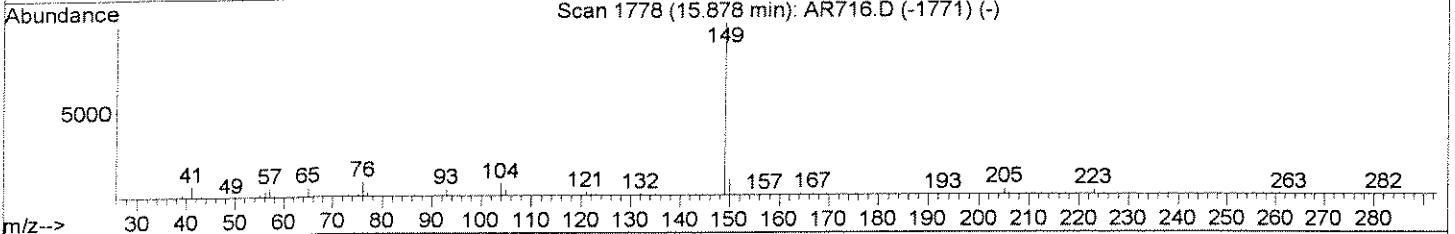
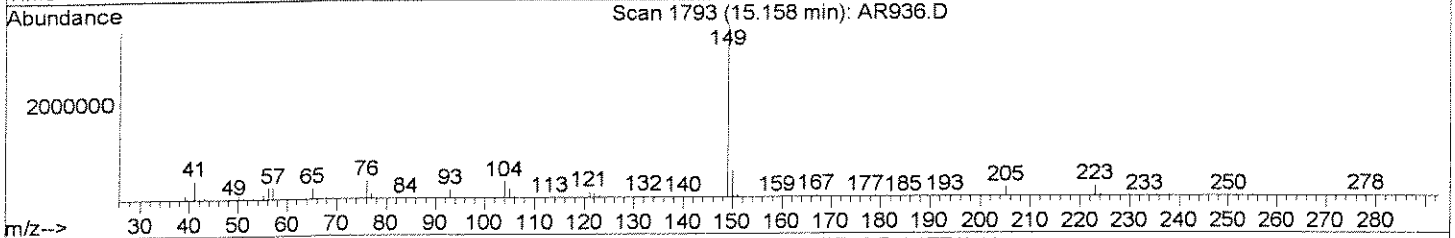
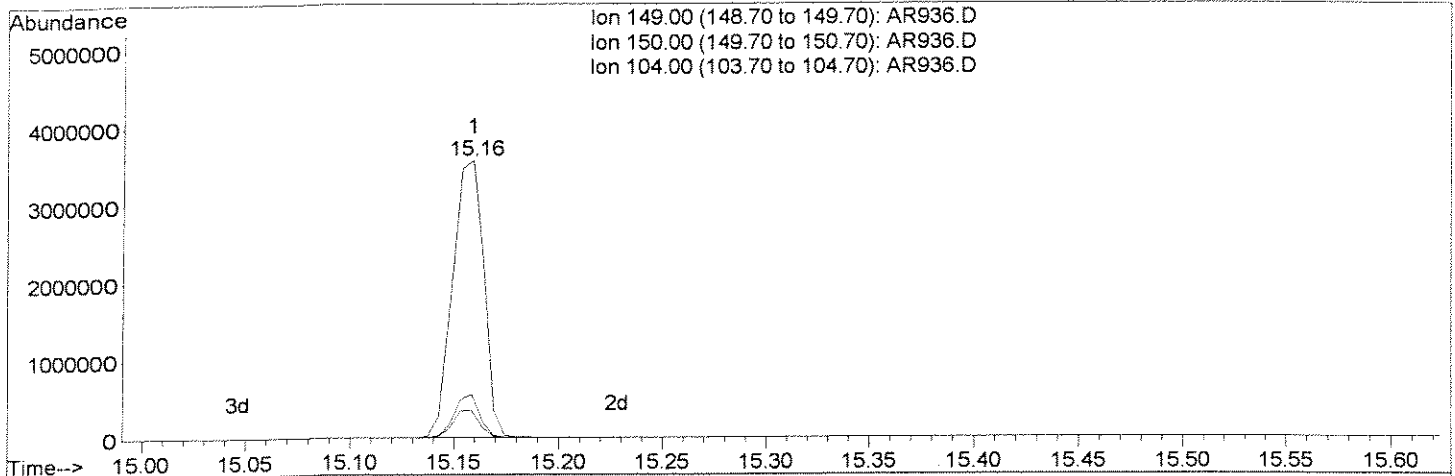
Ion	Exp%	Act%
149.00	100	100
150.00	9.20	15.60#
104.00	6.30	9.76#
0.00	0.00	0.00



Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D Vial: 10
 Acq On : 26 Jun 2008 10:10 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 10/20 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:56 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Multiple Level Calibration



(24) Di-n-butylphthalate

15.16min 8.94ppm m

response 3764118

Ion	Exp%	Act%
149.00	100	100
150.00	9.20	15.62#
104.00	6.30	9.78#
0.00	0.00	0.00

mw 417
A 4/6/07

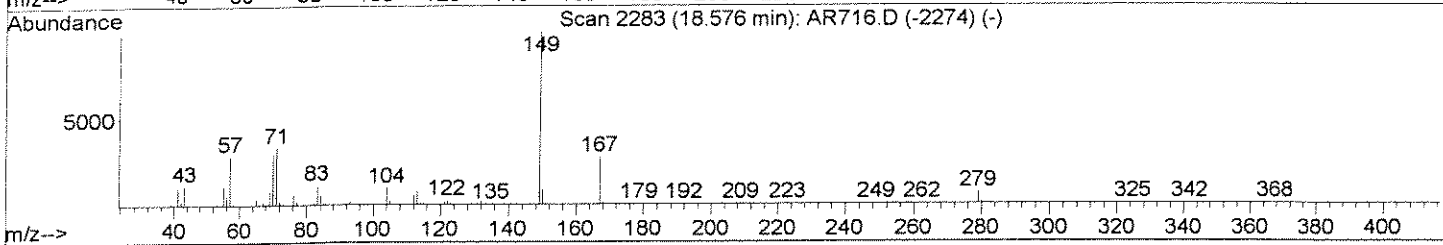
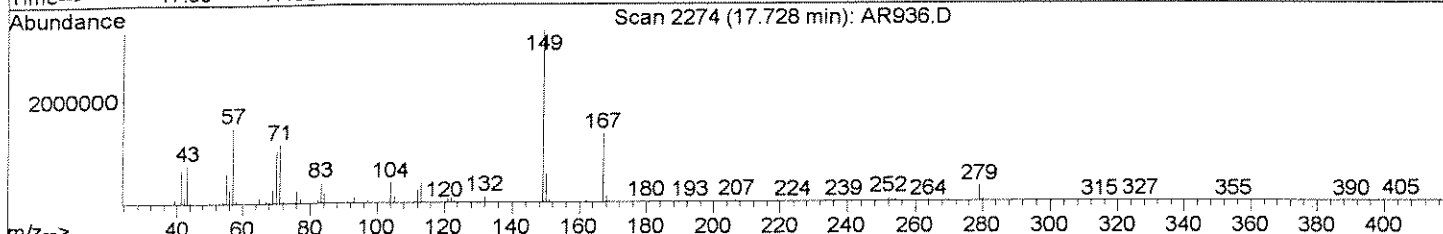
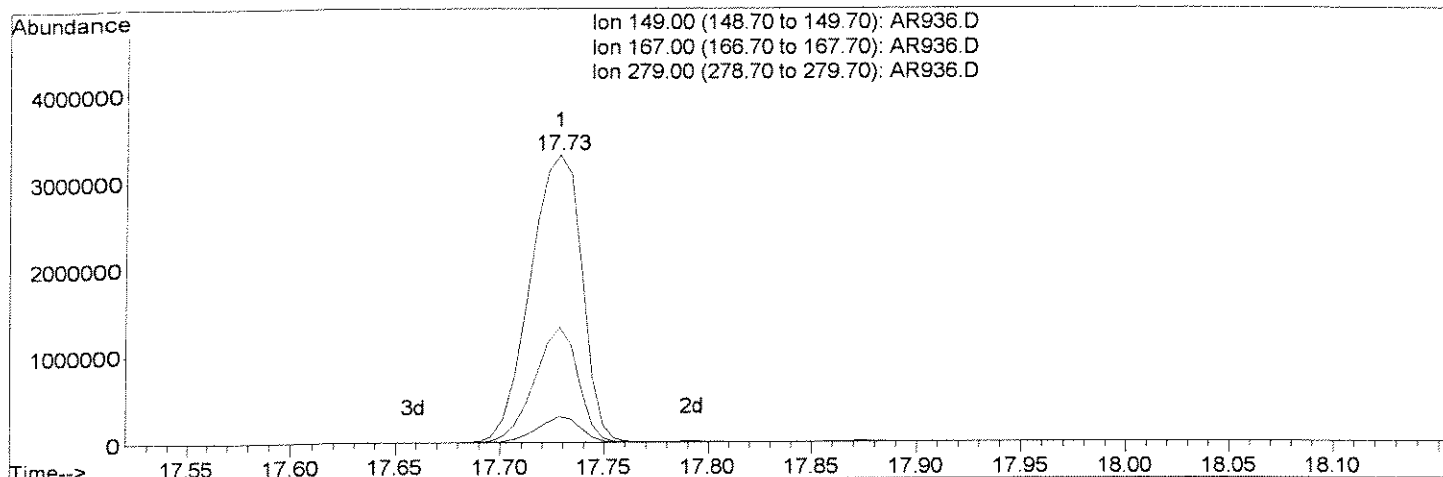
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D
 Acq On : 26 Jun 2008 10:10 pm
 Sample : INITIAL CALIBRATION
 Misc : 10/20 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:56 2008

Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Single Level Calibration



(30) bis(2-Ethylhexyl)phthalate (T)

17.73min 21.76ppm

response 5692915

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	39.99#
279.00	6.90	9.02#
0.00	0.00	0.00

B

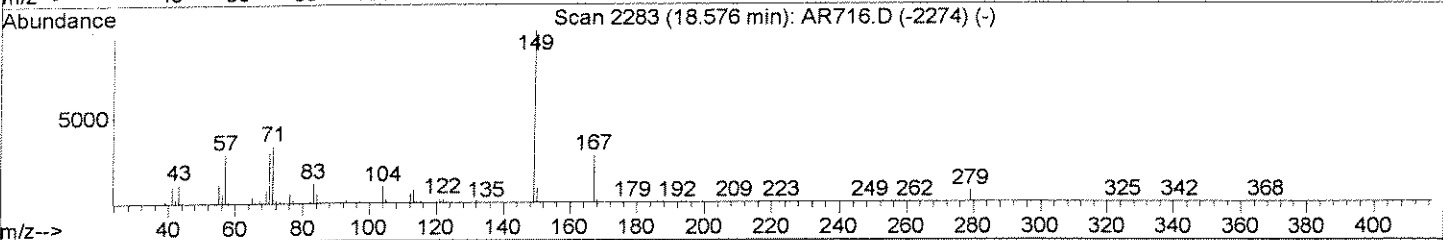
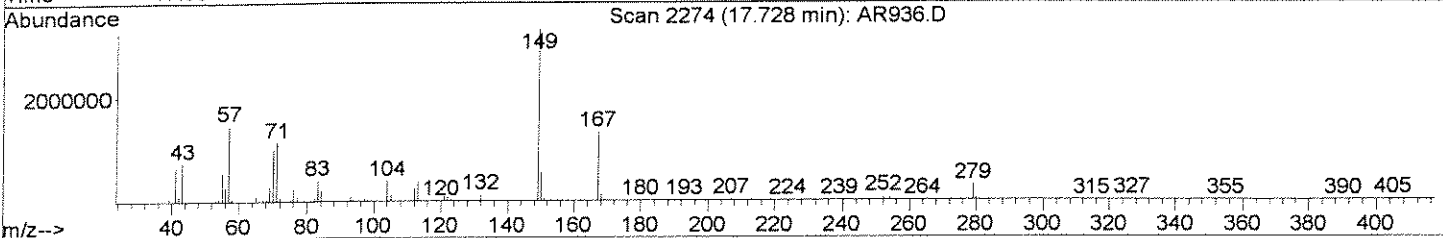
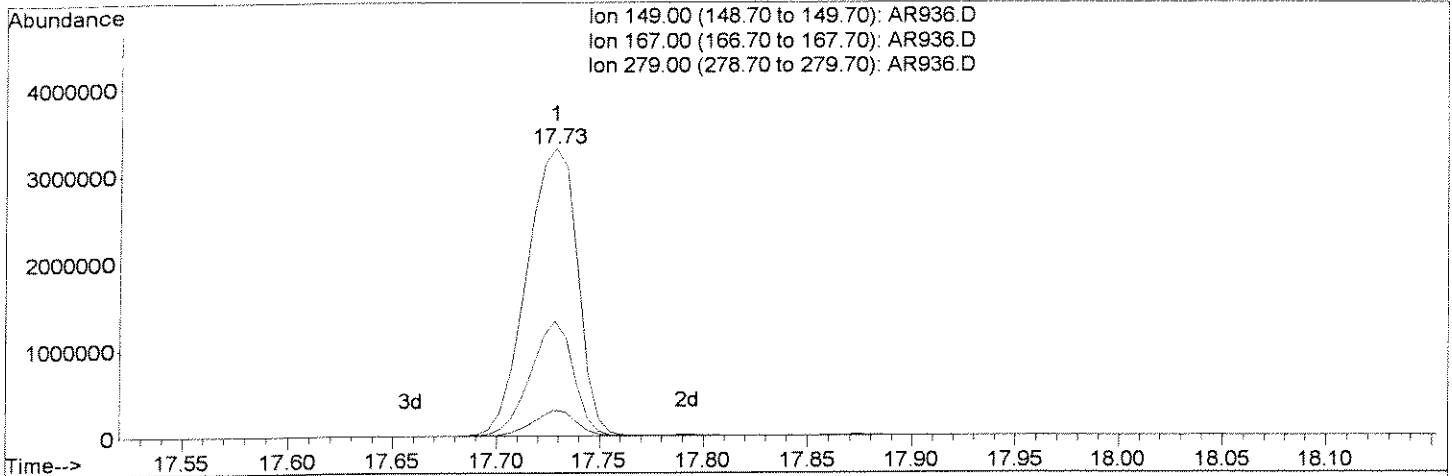
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D
 Acq On : 26 Jun 2008 10:10 pm
 Sample : INITIAL CALIBRATION
 Misc : 10/20 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:56 2008

Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Single Level Calibration



TIC: AR936.D

(30) bis(2-Ethylhexyl)phthalate (T)

17.73min 21.76ppm m

response 5694908

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	40.01#
279.00	6.90	9.02#
0.00	0.00	0.00

A 6/27

mw 416

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D
 Acq On : 26 Jun 2008 10:45 pm
 Sample : ICV 1
 Misc : 1.0 PPM STD 8270.LL ICV 1
 MS Integration Params: RTEINT.P

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration * not used

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	74	0.00
2	T 1,4-Dioxane	0.574	0.789	* -37.5#	109	0.02
3	Pyridine	1.903	5.765	* -202.9#	227#	-0.01
4	IR d8-Naphthalene	1.000	1.000	0.0	73	0.00
5	S SURR4, NITROBENZENE-D5	0.573	1.034	* -80.5#	138	0.00
6	T Nitrobenzene	0.595	0.990	-66.4#	127	0.00
7	T Naphthalene	1.028	1.044	-1.6	76	0.00
8	T 2-Methylnaphthalene	0.687	0.639	7.0	73	0.00
9	T 1-Methylnaphthalene	0.668	0.614	8.1	73	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	72	0.00
11	S SURR5, 2-FLUOROBIPHENYL	1.685	2.752	* -63.3#	143	0.00
12	T Acenaphthylene	2.191	1.871	14.6	74	0.00
13	Dimethyl phthalate	1.503	1.302	13.4	82	0.00
14	T Acenaphthene	1.410	1.139	19.2	70	0.00
15	T Dibenzofuran	2.125	1.748	17.7	74	0.00
16	T Fluorene	1.451	1.755	-21.0#	100	0.00
17	Diethylphthalate	1.640	1.392	15.1	82	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	104	0.00
19	T Hexachlorobenzene	0.259	0.265	-2.3	114	0.00
20	T Phenanthrene	1.019	1.018	0.1	105	0.00
21	T Anthracene	0.985	0.987	-0.2	107	0.00
22	T Carbazole	0.724	0.814	-12.4	108	0.00
23	Octachlorostyrene	0.061	0.057	6.6	99	0.00
24	Di-n-butylphthalate	1.074	3.394	* -216.0#	348#	0.00
25	T Fluoranthene	1.045	1.003	4.0	106	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	82	0.00
27	T Pyrene	1.171	1.368	-16.8	100	0.00
28	S SURR6, TERPHENYL-D14	0.846	2.183	* -158.0#	219#	0.00
29	Butylbenzylphthalate	0.506	0.497	1.8	89	0.00
30	T bis(2-Ethylhexyl)phthalate	0.724	1.192	* -64.6#	148	0.00
31	T Benzo(a)anthracene	1.091	1.075	1.5	82	0.00
32	T Chrysene	1.119	1.075	3.9	82	0.00
33	IR d12-Perylene	1.000	1.000	0.0	81	-0.01
34	Di-n-octylphthalate	1.274	1.213	4.8	92	0.00
35	T Benzo(b)Fluoranthene	1.420	1.379	2.9	81	0.00
36	T Benzo(k)fluoranthene	1.372	1.406	-2.5	85	0.00

(#) = Out of Range
 AR937.D LVI0626.M

Fri Jun 27 10:09:45 2008

JW

Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\062608\AR937.D Vial: 11
 Acq On : 26 Jun 2008 10:45 pm Operator: J.Wu
 Sample : ICV 1 Inst : 5973C
 Misc : 1.0 PPM STD 8270.LL ICV 1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	1.203	1.144	4.9	83	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.361	1.443	-6.0	88	0.00
39 T	Dibenz(a,h)anthracene	1.132	1.220	-7.8	92	0.00
40 T	Benzo(g,h,i)perylene	1.190	1.317	-10.7	86	0.00



Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D
 Acq On : 26 Jun 2008 10:45 pm
 Sample : ICV 1
 Misc : 1.0 PPM STD 8270.LL ICV 1
 MS Integration Params: RTEINT.P

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

*only for * 12, 13, 14, 15, 16, 34, 38, 39 L.R.*

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	74	0.00
2	T 1,4-Dioxane	2.000	2.751	-37.5#	109	0.02
3	Pyridine	1.000	3.029	-202.9#	227	-0.01
4	IR d8-Naphthalene	1.000	1.000	0.0	73	0.00
5	S SURR4,NITROBENZENE-D5	1.000	1.806	-80.6#	138	0.00
6	T Nitrobenzene	1.000	1.663	-66.3#	127	0.00
7	T Naphthalene	1.000	1.016	-1.6	76	0.00
8	T 2-Methylnaphthalene	1.000	0.929	7.1	73	0.00
9	T 1-Methylnaphthalene	1.000	0.920	8.0	73	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	72	0.00
11	S SURR5,2-FLUOROBIPHENYL	1.000	1.525	-52.5#	143	0.00
12	T Acenaphthylene	1.000	0.894	10.6	74	0.00
13	Dimethyl phthalate	1.000	0.919	8.1	82	0.00
14	T Acenaphthene	1.000	0.861	13.9	70	0.00
15	T Dibenzofuran	1.000	0.874	12.6	74	0.00
16	T Fluorene	1.000	1.107	-10.7	100	0.00
17	Diethylphthalate	1.000	0.849	15.1	82	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	104	0.00
19	T Hexachlorobenzene	1.000	1.022	-2.2	114	0.00
20	T Phenanthrene	1.000	0.999	0.1	105	0.00
21	T Anthracene	1.000	1.002	-0.2	107	0.00
22	T Carbazole	1.000	1.124	-12.4	108	0.00
23	Octachlorostyrene	1.000	0.946	5.4	99	0.00
24	Di-n-butylphthalate	1.000	3.160	-216.0#	348	0.00
25	T Fluoranthene	1.000	0.960	4.0	106	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	82	0.00
27	T Pyrene	1.000	1.168	-16.8	100	0.00
28	S SURR6,TERPHENYL-D14	1.000	2.579	-157.9#	219	0.00
29	Butylbenzylphthalate	1.000	0.982	1.8	89	0.00
30	T bis(2-Ethylhexyl)phthalate	2.000	3.294	-64.7#	148	0.00
31	T Benzo(a)anthracene	1.000	0.985	1.5	82	0.00
32	T Chrysene	1.000	0.961	3.9	82	0.00
33	IR d12-Perylene	1.000	1.000	0.0	81	-0.01
34	Di-n-octylphthalate	1.000	1.054	-5.4	92	0.00
35	T Benzo(b)Fluoranthene	1.000	0.972	2.8	81	0.00
36	T Benzo(k)fluoranthene	1.000	1.025	-2.5	85	0.00

(#) = Out of Range
 AR937.D LVI0626.M

Fri Jun 27 10:10:03 2008

JW

Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\062608\AR937.D Vial: 11
 Acq On : 26 Jun 2008 10:45 pm Operator: J.Wu
 Sample : ICV 1 Inst : 5973C
 Misc : 1.0 PPM STD 8270.LL ICV 1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
37 T Benzo(a)pyrene	1.000	0.951	4.9	83	0.00
38 T Indeno(1,2,3-cd)Pyrene	1.000	1.042	-4.2	88	0.00
39 T Dibenz(a,h)anthracene	1.000	1.055	-5.5	92	0.00
40 T Benzo(g,h,i)perylene	1.000	1.107	-10.7	86	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D
 Acq On : 26 Jun 2008 10:45 pm
 Sample : ICV 1
 Misc : 1.0 PPM STD 8270.LL ICV 1
 MS Integration Params: RTEINT.P

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

for Surrogate 7, 18 only

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	68	0.00
2	T 1,4-Dioxane	0.574	0.395	31.2#	48#	0.02
3	Pyridine	1.903	2.882	-51.4#	98	-0.01
4	IR d8-Naphthalene	1.000	1.000	0.0	69	0.00
5	S SURR4, NITROBENZENE-D5	0.573	0.517	9.8	58	0.00
6	T Nitrobenzene	0.595	0.495	16.8	55	0.00
7	T Naphthalene	1.028	0.522	49.2#	34#	0.00
8	T 2-Methylnaphthalene	0.687	0.319	53.6#	31#	0.00
9	T 1-Methylnaphthalene	0.668	0.307	54.0#	30#	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	78	0.00
11	S SURR5, 2-FLUOROBIPHENYL	1.685	1.376	18.3	62	0.00
12	T Acenaphthylene	2.191	0.936	57.3#	32#	0.00
13	Dimethyl phthalate	1.503	0.651	56.7#	34#	0.00
14	T Acenaphthene	1.410	0.570	59.6#	31#	0.00
15	T Dibenzofuran	2.125	0.874	58.9#	31#	0.00
16	T Fluorene	1.451	0.878	39.5#	44#	0.00
17	Diethylphthalate	1.640	0.696	57.6#	34#	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	97	0.00
19	T Hexachlorobenzene	0.259	0.133	48.6#	50#	0.00
20	T Phenanthrene	1.019	0.509	50.0#	46#	0.00
21	T Anthracene	0.985	0.494	49.8#	46#	0.00
22	T Carbazole	0.724	0.407	43.8#	49#	0.00
23	Octachlorostyrene	0.061	0.029#	52.5#	42#	0.00
24	Di-n-butylphthalate	1.074	1.697	-58.0#	142	0.00
25	T Fluoranthene	1.045	0.502	52.0#	43#	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	77	0.00
27	T Pyrene	1.171	0.684	41.6#	42#	0.00
28	S SURR6, TERPHENYL-D14	0.846	1.091	-29.0#	93	0.00
29	Butylbenzylphthalate	0.506	0.248	51.0#	35#	0.00
30	T bis(2-Ethylhexyl)phthalate	0.724	0.596	17.7	59	0.00
31	T Benzo(a)anthracene	1.091	0.537	50.8#	35#	0.00
32	T Chrysene	1.119	0.538	51.9#	35#	0.00
33	IR d12-Perylene	1.000	1.000	0.0	73	-0.01
34	Di-n-octylphthalate	1.274	0.607	52.4#	33#	0.00
35	T Benzo(b)Fluoranthene	1.420	0.690	51.4#	34#	0.00
36	T Benzo(k)fluoranthene	1.372	0.703	48.8#	35#	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D Vial: 11
 Acq On : 26 Jun 2008 10:45 pm Operator: J.Wu
 Sample : ICV 1 Inst : 5973C
 Misc : 1.0 PPM STD 8270.LL ICV 1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	1.203	0.572	52.5#	33#	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.361	0.721	47.0#	35#	0.00
39 T	Dibenz(a,h)anthracene	1.132	0.610	46.1#	35#	0.00
40 T	Benzo(g,h,i)perylene	1.190	0.659	44.6#	37#	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D
 Acq On : 26 Jun 2008 10:45 pm
 Sample : ICV 1
 Misc : 1.0 PPM STD 8270.LL ICV 1
 MS Integration Params: RTEINT.P

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

only for " L.R.

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	68	0.00
2	T 1,4-Dioxane	4.000	2.751	31.2#	48	0.02
3	Pyridine	2.000	3.029	-51.4#	98	-0.01
4	IR d8-Naphthalene	1.000	1.000	0.0	69	0.00
5	S SURR4,NITROBENZENE-D5	2.000	1.806	9.7	58	0.00
6	T Nitrobenzene	2.000	1.663	16.8	55	0.00
7	T Naphthalene	2.000	1.016	49.2#	34	0.00
8	T 2-Methylnaphthalene	2.000	0.929	53.5#	31	0.00
9	T 1-Methylnaphthalene	2.000	0.920	54.0#	30	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	78	0.00
11	S SURR5,2-FLUOROBIPHENYL	2.000	1.525	23.8#	62	0.00
12	T Acenaphthylene	2.000	0.894	55.3#	32	0.00
13	Dimethyl phthalate	2.000	0.919	54.0#	34	0.00
14	T Acenaphthene	2.000	0.861	57.0#	31	0.00
15	T Dibenzofuran	2.000	0.874	56.3#	31	0.00
16	T Fluorene	2.000	1.107	44.6#	44	0.00
17	Diethylphthalate	2.000	0.849	57.6#	34	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	97	0.00
19	T Hexachlorobenzene	2.000	1.022	48.9#	50	0.00
20	T Phenanthrene	2.000	0.999	50.0#	46	0.00
21	T Anthracene	2.000	1.002	49.9#	46	0.00
22	T Carbazole	2.000	1.124	43.8#	49	0.00
23	Octachlorostyrene	2.000	0.946	52.7#	42	0.00
24	Di-n-butylphthalate	2.000	3.160	-58.0#	142	0.00
25	T Fluoranthene	2.000	0.960	52.0#	43	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	77	0.00
27	T Pyrene	2.000	1.168	41.6#	42	0.00
28	S SURR6,TERPHENYL-D14	2.000	2.579	-29.0#	93	0.00
29	Butylbenzylphthalate	2.000	0.982	50.9#	35	0.00
30	T bis(2-Ethylhexyl)phthalate	4.000	3.294	17.6	59	0.00
31	T Benzo(a)anthracene	2.000	0.985	50.8#	35	0.00
32	T Chrysene	2.000	0.961	52.0#	35	0.00
33	IR d12-Perylene	1.000	1.000	0.0	73	-0.01
34	Di-n-octylphthalate	2.000	1.054	47.3#	33	0.00
35	T Benzo(b)Fluoranthene	2.000	0.972	51.4#	34	0.00
36	T Benzo(k)fluoranthene	2.000	1.025	48.8#	35	0.00

(#) = Out of Range
 AR937.D LVI0626.M

Fri Jun 27 10:10:23 2008

JW

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D Vial: 11
 Acq On : 26 Jun 2008 10:45 pm Operator: J.Wu
 Sample : ICV 1 Inst : 5973C
 Misc : 1.0 PPM STD 8270.LL ICV 1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	2.000	0.951	52.4#	33	0.00
38 T	Indeno(1,2,3-cd)Pyrene	2.000	1.042	47.9#	35	0.00
39 T	Dibenz(a,h)anthracene	2.000	1.055	47.3#	35	0.00
40 T	Benzo(g,h,i)perylene	2.000	1.107	44.6#	37	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D Vial: 11
 Acq On : 26 Jun 2008 10:45 pm Operator: J.Wu
 Sample : ICV 1 Inst : 5973C
 Misc : 1.0 PPM STD 8270.LL ICV 1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:07:51 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	56766	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	225349	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	116734	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	310631	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	230546	1.00	ppm	0.00
33) d12-Perylene	21.31	264	168522	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	233068	1.81	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	90.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	321213	1.52	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	76.00%
28) SURR6,TERPHENYL-D14	16.25	244	503281	2.58	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	129.00%

Target Compounds

						Qvalue
2) 1,4-Dioxane	5.82	88	89582	2.75	ppm	87
3) Pyridine	6.67	79	327229	3.03	ppm	97
6) Nitrobenzene	11.29	77	223075	1.66	ppm	76
7) Naphthalene	11.97	128	235323	1.02	ppm	99
8) 2-Methylnaphthalene	12.59	142	143966	0.93	ppm	98
9) 1-Methylnaphthalene	12.70	142	138383	0.92	ppm	97
12) Acenaphthylene	13.42	152	218462	0.89	ppm	99
13) Dimethyl phthalate	13.28	163	152006	0.92	ppm	100
14) Acenaphthene	13.58	153	133009	0.86	ppm	97
15) Dibenzofuran	13.72	168	204094	0.87	ppm	99
16) Fluorene	14.00	166	204870	1.11	ppm	96
17) Diethylphthalate	13.88	149	162532	0.85	ppm	98
19) Hexachlorobenzene	14.49	284	82354	1.02	ppm	92
20) Phenanthrene	14.76	178	316322	1.00	ppm	99
21) Anthracene	14.80	178	306615	1.00	ppm	99
22) Carbazole	14.90	167	252887	1.12	ppm	97
23) Octachlorostyrene	15.70	380	17788	0.95	ppm	77
24) Di-n-butylphthalate	15.15	149	1054367	3.16	ppm	99
25) Fluoranthene	15.89	202	311669	0.96	ppm	100
27) Pyrene	16.15	202	315414	1.17	ppm	100
29) Butylbenzylphthalate	16.85	149	114556	0.98	ppm	95
31) Benzo(a)anthracene	17.78	228	247730	0.98	ppm	96
32) Chrysene	17.86	228	247952	0.96	ppm	96
34) Di-n-octylphthalate	18.96	149	204419	1.05	ppm	98
35) Benzo(b)Fluoranthene	20.17	252	232454	0.97	ppm	98
36) Benzo(k)fluoranthene	20.24	252	236947	1.03	ppm	96

(#) = qualifier out of range (m) = manual integration
 AR937.D LVI0626.M Fri Jun 27 10:12:55 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D Vial: 11
 Acq On : 26 Jun 2008 10:45 pm Operator: J.Wu
 Sample : ICV 1 Inst : 5973C
 Misc : 1.0 PPM STD 8270.LL ICV 1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:07:51 2008 Quant Results File: LVI0626.RES

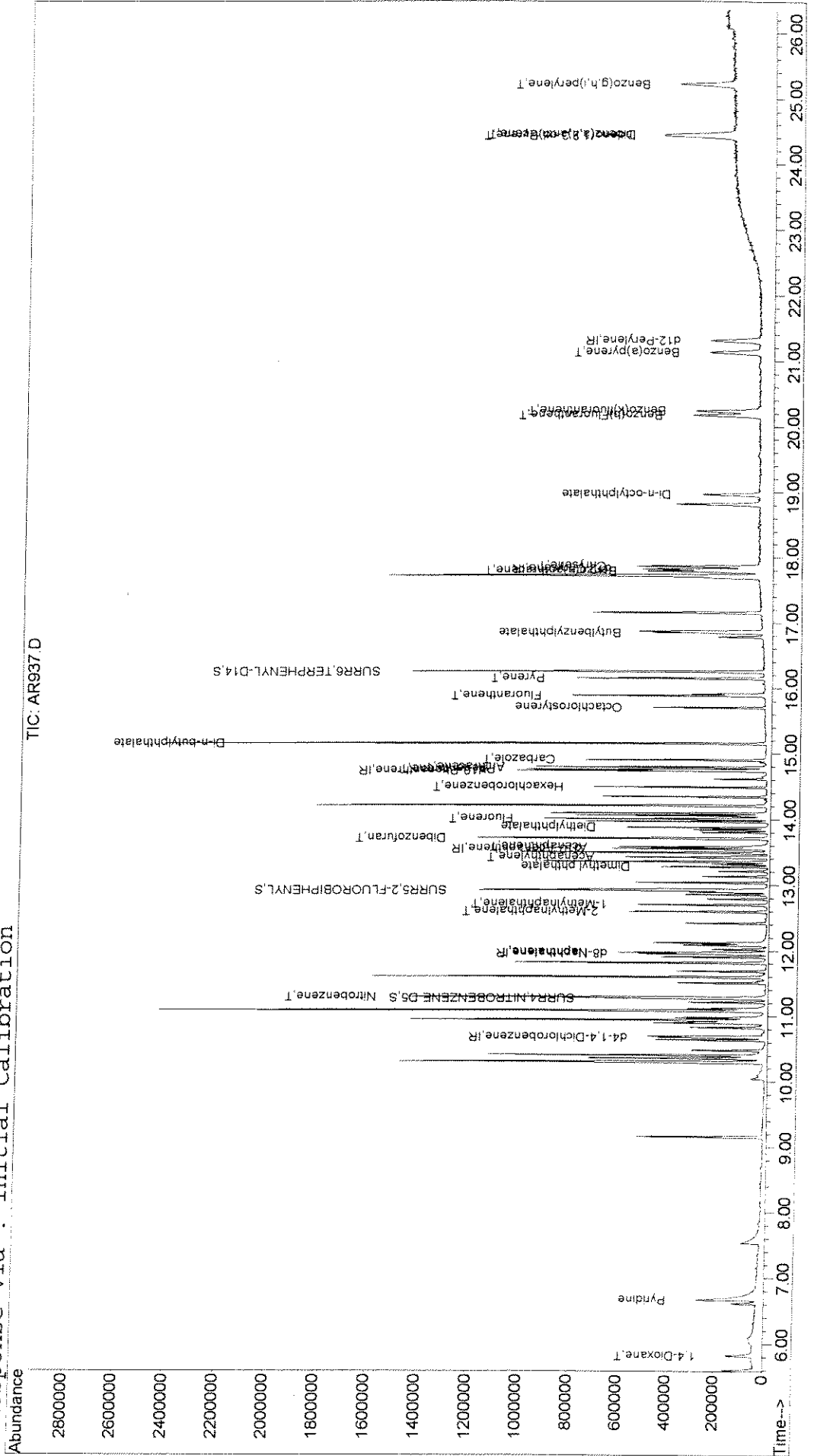
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Benzo(a)pyrene	21.13	252	192783	0.95	ppm	97
38) Indeno(1,2,3-cd)Pyrene	24.43	276	243167	1.04	ppm	100
39) Dibenz(a,h)anthracene	24.45	278	205612	1.05	ppm	94
40) Benzo(g,h,i)perylene	25.22	276	221976	1.11	ppm	98

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D
 Acq On : 26 Jun 2008 10:45 pm
 Sample : ICV 1
 Misc : 1.0 PPM STD 8270.LL ICV 1
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:07 2008
 Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00
 Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\062608\AR938.D
 Acq On : 26 Jun 2008 11:20 pm
 Sample : ICV 2
 Misc : 2.0 PPM STD 8270.LL ICV 2
 MS Integration Params: RTEINT.P

Vial: 12
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	101	0.00
2 T	1,4-Dioxane	0.574	0.282	50.9#	51	0.01
③	Pyridine	1.903	1.374	27.8#	70	0.00
4 IR	d8-Naphthalene	1.000	1.000	0.0	86	0.00
5 S	SURR4,NITROBENZENE-D5	0.573	0.000#	100.0#	0#	-11.27#
6 T	Nitrobenzene	0.595	0.000#	100.0#	0#	-11.29#
7 T	Naphthalene	1.028	0.000#	100.0#	0#	-11.97#
8 T	2-Methylnaphthalene	0.687	0.000#	100.0#	0#	-12.60#
9 T	1-Methylnaphthalene	0.668	0.000#	100.0#	0#	-12.70#
10 IR	d10-Acenaphthene	1.000	1.000	0.0	86	0.00
11 S	SURR5,2-FLUOROBIPHENYL	1.685	0.000#	100.0#	0#	-12.91#
12 T	Acenaphthylene	2.191	0.000#	100.0#	0#	-13.42#
13	Dimethyl phthalate	1.503	0.000#	100.0#	0#	-13.28#
14 T	Acenaphthene	1.410	0.000#	100.0#	0#	-13.58#
15 T	Dibenzofuran	2.125	0.000#	100.0#	0#	-13.72#
16 T	Fluorene	1.451	0.000#	100.0#	0#	-14.00#
17	Diethylphthalate	1.640	0.000#	100.0#	0#	-13.88#
18 IR	d10-Phenanthrene	1.000	1.000	0.0	100	0.00
19 T	Hexachlorobenzene	0.259	0.000#	100.0#	0#	-14.49#
20 T	Phenanthrene	1.019	0.000#	100.0#	0#	-14.76#
21 T	Anthracene	0.985	0.000#	100.0#	0#	-14.80#
22 T	Carbazole	0.724	0.000#	100.0#	0#	-14.91#
23	Octachlorostyrene	0.061	0.000#	100.0#	0#	-15.71#
②④	Di-n-butylphthalate	1.074	1.174	-9.3	101	0.00
25 T	Fluoranthene	1.045	0.000#	100.0#	0#	-15.88#
26 IR	d12-Chrysene	1.000	1.000	0.0	94	0.00
27 T	Pyrene	1.171	0.000#	100.0#	0#	-16.15#
28 S	SURR6,TERPHENYL-D14	0.846	0.000#	100.0#	0#	-16.25#
29	Butylbenzylphthalate	0.506	0.000#	100.0#	0#	-16.85#
30 T	bis(2-Ethylhexyl)phthalate	0.724	0.364	49.7#	44#	0.00
31 T	Benzo(a)anthracene	1.091	0.000#	100.0#	0#	-17.79#
32 T	Chrysene	1.119	0.000#	100.0#	0#	-17.86#
33 IR	d12-Perylene	1.000	1.000	0.0	86	-0.01
34	Di-n-octylphthalate	1.274	0.000#	100.0#	0#	-18.97#
35 T	Benzo(b)Fluoranthene	1.420	0.000#	100.0#	0#	-20.17#
36 T	Benzo(k)fluoranthene	1.372	0.000#	100.0#	0#	-20.24#

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR938.D Vial: 12
 Acq On : 26 Jun 2008 11:20 pm Operator: J.Wu
 Sample : ICV 2 Inst : 5973C
 Misc : 2.0 PPM STD 8270.LL ICV 2 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	1.203	0.000#	100.0#	0#	-21.14#
38 T	Indeno(1,2,3-cd)Pyrene	1.361	0.000#	100.0#	0#	-24.42#
39 T	Dibenz(a,h)anthracene	1.132	0.000#	100.0#	0#	-24.45#
40 T	Benzo(g,h,i)perylene	1.190	0.000#	100.0#	0#	-25.22#

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR938.D
 Acq On : 26 Jun 2008 11:20 pm
 Sample : ICV 2
 Misc : 2.0 PPM STD 8270.LL ICV 2
 MS Integration Params: RTEINT.P

Vial: 12
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

for # 2, 30 only

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	110	0.00
2	T	1,4-Dioxane	0.574	0.563	1.9	116	0.01
3		Pyridine	1.903	2.748	-44.4#	161	0.00
4	IR	d8-Naphthalene	1.000	1.000	0.0	92	0.00
5	S	SURR4,NITROBENZENE-D5	0.573	0.000#	100.0#	0#	-11.27#
6	T	Nitrobenzene	0.595	0.000#	100.0#	0#	-11.29#
7	T	Naphthalene	1.028	0.000#	100.0#	0#	-11.97#
8	T	2-Methylnaphthalene	0.687	0.000#	100.0#	0#	-12.60#
9	T	1-Methylnaphthalene	0.668	0.000#	100.0#	0#	-12.70#
10	IR	d10-Acenaphthene	1.000	1.000	0.0	81	0.00
11	S	SURR5,2-FLUOROBIPHENYL	1.685	0.000#	100.0#	0#	-12.91#
12	T	Acenaphthylene	2.191	0.000#	100.0#	0#	-13.42#
13		Dimethyl phthalate	1.503	0.000#	100.0#	0#	-13.28#
14	T	Acenaphthene	1.410	0.000#	100.0#	0#	-13.58#
15	T	Dibenzofuran	2.125	0.000#	100.0#	0#	-13.72#
16	T	Fluorene	1.451	0.000#	100.0#	0#	-14.00#
17		Diethylphthalate	1.640	0.000#	100.0#	0#	-13.88#
18	IR	d10-Phenanthrene	1.000	1.000	0.0	107	0.00
19	T	Hexachlorobenzene	0.259	0.000#	100.0#	0#	-14.49#
20	T	Phenanthrene	1.019	0.000#	100.0#	0#	-14.76#
21	T	Anthracene	0.985	0.000#	100.0#	0#	-14.80#
22	T	Carbazole	0.724	0.000#	100.0#	0#	-14.91#
23		Octachlorostyrene	0.061	0.000#	100.0#	0#	-15.71#
24		Di-n-butylphthalate	1.074	2.348	-118.6#	246#	0.00
25	T	Fluoranthene	1.045	0.000#	100.0#	0#	-15.88#
26	IR	d12-Chrysene	1.000	1.000	0.0	100	0.00
27	T	Pyrene	1.171	0.000#	100.0#	0#	-16.15#
28	S	SURR6,TERPHENYL-D14	0.846	0.000#	100.0#	0#	-16.25#
29		Butylbenzylphthalate	0.506	0.000#	100.0#	0#	-16.85#
30	T	bis(2-Ethylhexyl)phthalate	0.724	0.729	-0.7	110	0.00
31	T	Benzo(a)anthracene	1.091	0.000#	100.0#	0#	-17.79#
32	T	Chrysene	1.119	0.000#	100.0#	0#	-17.86#
33	IR	d12-Perylene	1.000	1.000	0.0	95	-0.01
34		Di-n-octylphthalate	1.274	0.000#	100.0#	0#	-18.97#
35	T	Benzo(b)Fluoranthene	1.420	0.000#	100.0#	0#	-20.17#
36	T	Benzo(k)fluoranthene	1.372	0.000#	100.0#	0#	-20.24#

(#) = Out of Range
 AR938.D LVI0626.M

Fri Jun 27 10:12:43 2008

JW



Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR938.D Vial: 12
 Acq On : 26 Jun 2008 11:20 pm Operator: J.Wu
 Sample : ICV 2 Inst : 5973C
 Misc : 2.0 PPM STD 8270.LL ICV 2 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	1.203	0.000#	100.0#	0#	-21.14#
38 T	Indeno(1,2,3-cd)Pyrene	1.361	0.000#	100.0#	0#	-24.42#
39 T	Dibenz(a,h)anthracene	1.132	0.000#	100.0#	0#	-24.45#
40 T	Benzo(g,h,i)perylene	1.190	0.000#	100.0#	0#	-25.22#

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\062608\AR938.D Vial: 12
 Acq On : 26 Jun 2008 11:20 pm Operator: J.Wu
 Sample : ICV 2 Inst : 5973C
 Misc : 2.0 PPM STD 8270.LL ICV 2 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:10:30 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	84757	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	281818	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	129781	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	318161	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	281111	1.00	ppm	0.00
33) d12-Perylene	21.31	264	196972	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	0.00	82	0d	0.00	ppm	
Spiked Amount	2.000	Range 22 - 124	Recovery	=	0.00%#	
11) SURR5,2-FLUOROBIPHENYL	0.00	172	0d	0.00	ppm	
Spiked Amount	2.000	Range 27 - 114	Recovery	=	0.00%#	
28) SURR6,TERPHENYL-D14	0.00	244	0d	0.00	ppm	
Spiked Amount	2.000	Range 23 - 139	Recovery	=	0.00%#	

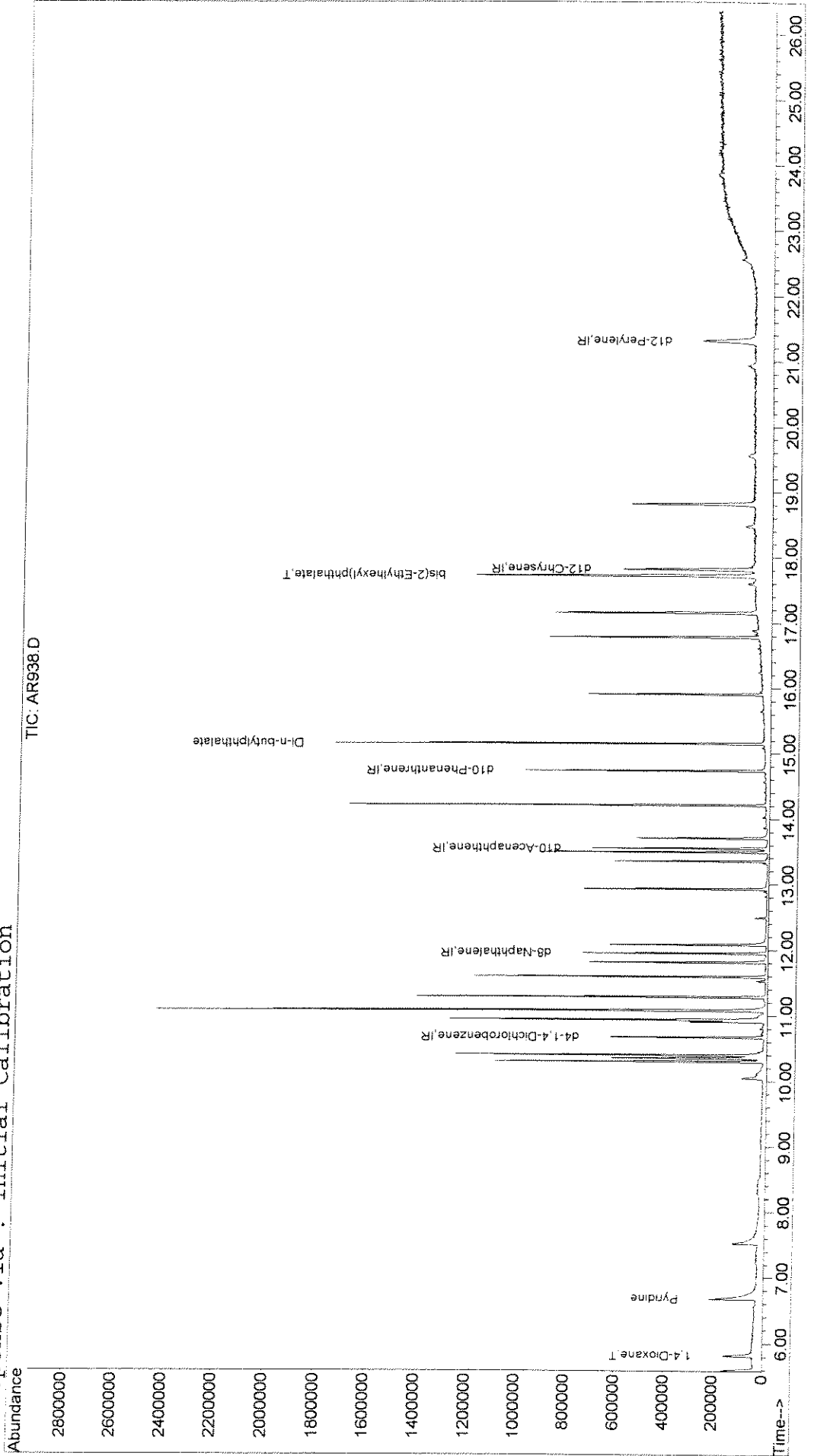
Target Compounds

						Qvalue
2) 1,4-Dioxane	5.81	88	95453	1.96	ppm	84
3) Pyridine	6.68	79	232892	1.44	ppm	97
24) Di-n-butylphthalate	15.15	149	747135	2.19	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.72	149	409653	2.01	ppm	98

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR938.D
Acq On : 26 Jun 2008 11:20 pm Vial: 12
Sample : ICV 2 Operator: J.Wu
Misc : 2.0 PPM STD 8270.LL ICV 2 Inst : 5973C
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: Jun 27 10:11 2008 Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 09:31:03 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration # 11, 12, 13, 14, 15, 16, 17, 18, 19 L.R.

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	123	0.00
2 T	1,4-Dioxane	0.574	0.592	-3.1	129	0.02
3	Pyridine	1.903	2.057	-8.1	127	0.00
4 IR	d8-Naphthalene	1.000	1.000	0.0	121	0.00
5 S	SURR4,NITROBENZENE-D5	0.573	0.610	-6.5	121	0.00
6 T	Nitrobenzene	0.595	0.641	-7.7	127	0.00
7 T	Naphthalene	1.028	1.098	-6.8	125	0.00
8 T	2-Methylnaphthalene	0.687	0.729	-6.1	126	0.00
9 T	1-Methylnaphthalene	0.668	0.690	-3.3	121	0.00
10 IR	d10-Acenaphthene	1.000	1.000	0.0	131	0.00
11 S	SURR5,2-FLUOROBIPHENYL	1.685	1.599	5.1	121	0.00
12 T	Acenaphthylene	2.191	2.051	6.4	119	0.00
13	Dimethyl phthalate	1.503	1.322	12.0	116	0.00
14 T	Acenaphthene	1.410	1.265	10.3	115	0.00
15 T	Dibenzofuran	2.125	1.999	5.9	120	0.00
16 T	Fluorene	1.451	1.534	-5.7	129	0.00
17	Diethylphthalate	1.640	1.514	7.7	126	0.00
18 IR	d10-Phenanthrene	1.000	1.000	0.0	127	0.00
19 T	Hexachlorobenzene	0.259	0.270	-4.2	132	0.00
20 T	Phenanthrene	1.019	1.102	-8.1	129	0.00
21 T	Anthracene	0.985	1.099	-11.6	133	0.00
22 T	Carbazole	0.724	0.812	-12.2	128	0.00
23	Octachlorostyrene	0.061	0.070	-14.8	136	0.00
24	Di-n-butylphthalate	1.074	1.224	-14.0	134	0.00
25 T	Fluoranthene	1.045	1.139	-9.0	128	0.00
26 IR	d12-Chrysene	1.000	1.000	0.0	130	0.00
27 T	Pyrene	1.171	1.266	-8.1	130	0.00
28 S	SURR6,TERPHENYL-D14	0.846	0.883	-4.4	127	0.00
29	Butylbenzylphthalate	0.506	0.583	-15.2	136	0.00
30 T	bis(2-Ethylhexyl)phthalate	0.724	0.819	-13.1	136	0.00
31 T	Benzo(a)anthracene	1.091	1.188	-8.9	130	0.00
32 T	Chrysene	1.119	1.143	-2.1	125	0.00
33 IR	d12-Perylene	1.000	1.000	0.0	134	-0.01
34	Di-n-octylphthalate	1.274	1.554	-22.0#	155	0.00
35 T	Benzo(b)Fluoranthene	1.420	1.412	0.6	128	0.00
36 T	Benzo(k)fluoranthene	1.372	1.407	-2.6	129	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	1.203	1.283	-6.7	136	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.361	1.563	-14.8	138	0.00
39 T	Dibenz(a,h)anthracene	1.132	1.342	-18.6	140	0.00
40 T	Benzo(g,h,i)perylene	1.190	1.322	-11.1	134	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration #10,12,13,14,15,16,17,18,19 L.R.

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	123	0.00
2	T 1,4-Dioxane	4.000	4.129	-3.2	129	0.02
3	Pyridine	2.000	2.161	-8.1	127	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	121	0.00
5	S SURR4,NITROBENZENE-D5	2.000	2.131	-6.5	121	0.00
6	T Nitrobenzene	2.000	2.154	-7.7	127	0.00
7	T Naphthalene	2.000	2.137	-6.9	125	0.00
8	T 2-Methylnaphthalene	2.000	2.122	-6.1	126	0.00
9	T 1-Methylnaphthalene	2.000	2.066	-3.3	121	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	131	0.00
11	S SURR5,2-FLUOROBIPHENYL	2.000	1.737	13.1	121	0.00
12	T Acenaphthylene	2.000	1.700	15.0	119	0.00
13	Dimethyl phthalate	2.000	1.714	14.3	116	0.00
14	T Acenaphthene	2.000	1.665	16.8	115	0.00
15	T Dibenzofuran	2.000	1.722	13.9	120	0.00
16	T Fluorene	2.000	1.796	10.2	129	0.00
17	Diethylphthalate	2.000	1.846	7.7	126	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	127	0.00
19	T Hexachlorobenzene	2.000	2.079	-4.0	132	0.00
20	T Phenanthrene	2.000	2.164	-8.2	129	0.00
21	T Anthracene	2.000	2.232	-11.6	133	0.00
22	T Carbazole	2.000	2.244	-12.2	128	0.00
23	Octachlorostyrene	2.000	2.317	-15.9	136	0.00
24	Di-n-butylphthalate	2.000	2.280	-14.0	134	0.00
25	T Fluoranthene	2.000	2.181	-9.1	128	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	130	0.00
27	T Pyrene	2.000	2.161	-8.1	130	0.00
28	S SURR6,TERPHENYL-D14	2.000	2.086	-4.3	127	0.00
29	Butylbenzylphthalate	2.000	2.307	-15.3	136	0.00
30	T bis(2-Ethylhexyl)phthalate	4.000	4.527	-13.2	136	0.00
31	T Benzo(a)anthracene	2.000	2.178	-8.9	130	0.00
32	T Chrysene	2.000	2.043	-2.2	125	0.00
33	IR d12-Perylene	1.000	1.000	0.0	134	-0.01
34	Di-n-octylphthalate	2.000	2.179	-8.9	155	0.00
35	T Benzo(b)Fluoranthene	2.000	1.989	0.5	128	0.00
36	T Benzo(k)fluoranthene	2.000	2.051	-2.6	129	0.00

(#) = Out of Range
 AR982.D LVI0626.M

Mon Jun 30 10:10:43 2008

Page 1

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Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	2.000	2.133	-6.7	136	0.00
38 T	Indeno(1,2,3-cd)Pyrene	2.000	2.095	-4.8	138	0.00
39 T	Dibenz(a,h)anthracene	2.000	2.086	-4.3	140	0.00
40 T	Benzo(g,h,i)perylene	2.000	2.223	-11.1	134	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 09:47:29 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	102949	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	397895	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	196935	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	405436	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	387612	1.00	ppm	0.00
33) d12-Perylene	21.31	264	307668	1.00	ppm	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	485778	2.13	ppm	0.00
Spiked Amount 2.000	Range	22 - 124	Recovery	=	106.50%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	629636	1.74	ppm	0.00
Spiked Amount 2.000	Range	27 - 114	Recovery	=	87.00%	
28) SURR6,TERPHENYL-D14	16.25	244	684429	2.09	ppm	0.00
Spiked Amount 2.000	Range	23 - 139	Recovery	=	104.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.82	88	243834	4.13	ppm	90
3) Pyridine	6.67	79	423490	2.16	ppm	95
6) Nitrobenzene	11.29	77	510198	2.15	ppm	99
7) Naphthalene	11.97	128	873957	2.14	ppm	99
8) 2-Methylnaphthalene	12.60	142	580411	2.12	ppm	95
9) 1-Methylnaphthalene	12.70	142	548781	2.07	ppm	97
12) Acenaphthylene	13.42	152	807661	1.70	ppm	99
13) Dimethyl phthalate	13.28	163	520783	1.71	ppm	99
14) Acenaphthene	13.58	153	498411	1.67	ppm	94
15) Dibenzofuran	13.72	168	787236	1.72	ppm	99
16) Fluorene	14.00	166	604109	1.80	ppm	95
17) Diethylphthalate	13.88	149	596136	1.85	ppm	98
19) Hexachlorobenzene	14.49	284	218724	2.08	ppm	96
20) Phenanthrene	14.76	178	893859	2.16	ppm	99
21) Anthracene	14.80	178	891286	2.23	ppm	98
22) Carbazole	14.91	167	658801	2.24	ppm	97
23) Octachlorostyrene	15.70	380	56877	2.32	ppm	88
24) Di-n-butylphthalate	15.15	149	992807	2.28	ppm	99
25) Fluoranthene	15.88	202	923857	2.18	ppm	99
27) Pyrene	16.15	202	981143	2.16	ppm	99
29) Butylbenzylphthalate	16.85	149	452176	2.31	ppm	96
30) bis(2-Ethylhexyl)phthalate	17.72	149	1270286	4.53	ppm	99
31) Benzo(a)anthracene	17.79	228	921295	2.18	ppm	99
32) Chrysene	17.86	228	886033	2.04	ppm	98
34) Di-n-octylphthalate	18.96	149	956364	2.18	ppm	100
35) Benzo(b)Fluoranthene	20.17	252	868858	1.99	ppm	97

(#) = qualifier out of range (m) = manual integration
 AR982.D LVI0626.M Mon Jun 30 10:10:20 2008

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Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 09:47:29 2008 Quant Results File: LVI0626.RES

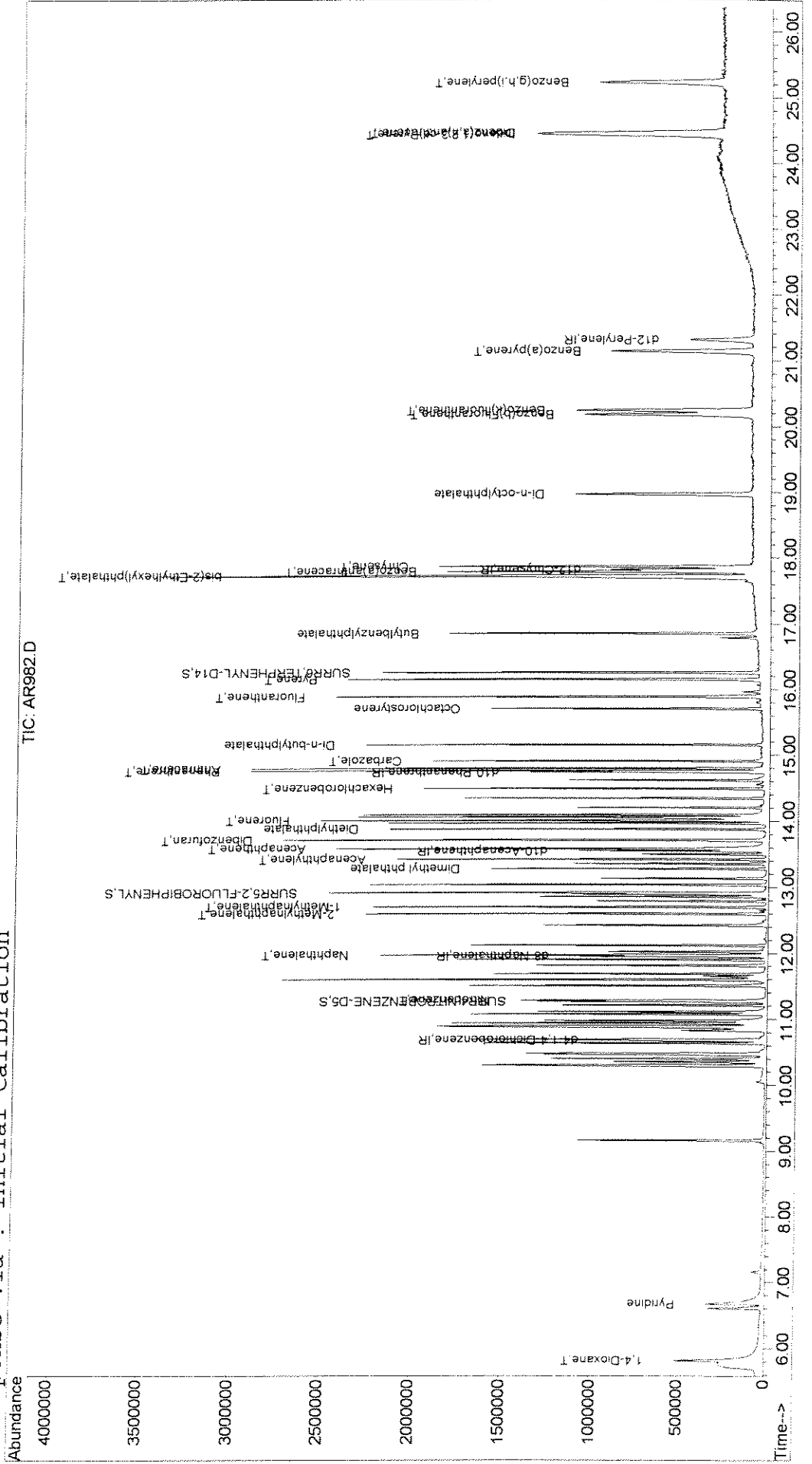
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.24	252	865740	2.05	ppm	99
37) Benzo(a)pyrene	21.14	252	789409	2.13	ppm	99
38) Indeno(1,2,3-cd)Pyrene	24.43	276	961929	2.10	ppm	94
39) Dibenz(a,h)anthracene	24.46	278	825569	2.09	ppm	98
40) Benzo(g,h,i)perylene	25.22	276	813713	2.22	ppm	97

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR982.D
 Acq On : 30 Jun 2008 9:20 am Vial: 1
 Sample : CALIBRATION CHECK Operator: J.Wu
 Misc : 2.0/4.0 PPM STD 8270.LL Inst : 5973C
 MS Integration Params: RTEINT.P Multiplr: 1.00
 Quant Time: Jun 30 9:47 2008 Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\070108\AS011.D
 Acq On : 1 Jul 2008 12:57 pm
 Sample : CALIBRATION CHECK
 Misc : 2.0/4.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008 # 11, 12, 13, 14, 15, 16, 34, 35, 39 L-R
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	122	0.00
2	T 1,4-Dioxane	0.574	0.599	-4.4	130	0.02
3	Pyridine	1.903	2.055	-8.0	126	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	117	0.00
5	S SURR4,NITROBENZENE-D5	0.573	0.615	-7.3	117	0.00
6	T Nitrobenzene	0.595	0.635	-6.7	120	0.00
7	T Naphthalene	1.028	1.128	-9.7	123	0.00
8	T 2-Methylnaphthalene	0.687	0.710	-3.3	118	0.00
9	T 1-Methylnaphthalene	0.668	0.681	-1.9	114	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	125	0.00
11	S SURR5,2-FLUOROBIPHENYL	1.685	1.558	7.5	112	0.00
12	T Acenaphthylene	2.191	1.998	8.8	110	0.00
13	Dimethyl phthalate	1.503	1.295	13.8	109	0.00
14	T Acenaphthene	1.410	1.237	12.3	107	0.00
15	T Dibenzofuran	2.125	1.888	11.2	107	0.00
16	T Fluorene	1.451	1.566	-7.9	126	0.00
17	Diethylphthalate	1.640	1.522	7.2	120	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	125	0.00
19	T Hexachlorobenzene	0.259	0.272	-5.0	131	0.00
20	T Phenanthrene	1.019	1.097	-7.7	127	0.00
21	T Anthracene	0.985	1.091	-10.8	130	0.00
22	T Carbazole	0.724	0.844	-16.6	131	0.00
23	Octachlorostyrene	0.061	0.069	-13.1	131	0.00
24	Di-n-butylphthalate	1.074	1.194	-11.2	128	0.00
25	T Fluoranthene	1.045	1.137	-8.8	126	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	126	0.00
27	T Pyrene	1.171	1.268	-8.3	127	0.00
28	S SURR6, TERPHENYL-D14	0.846	0.888	-5.0	124	0.00
29	Butylbenzylphthalate	0.506	0.548	-8.3	124	0.00
30	T bis(2-Ethylhexyl)phthalate	0.724	0.806	-11.3	130	0.00
31	T Benzo(a)anthracene	1.091	1.174	-7.6	124	0.00
32	T Chrysene	1.119	1.158	-3.5	123	0.00
33	IR d12-Perylene	1.000	1.000	0.0	123	-0.01
34	Di-n-octylphthalate	1.274	1.483	-16.4	136	0.00
35	T Benzo(b)Fluoranthene	1.420	1.518	-6.9	127	0.00
36	T Benzo(k)fluoranthene	1.372	1.493	-8.8	126	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\070108\AS011.D Vial: 1
 Acq On : 1 Jul 2008 12:57 pm Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	1.203	1.327	-10.3	129	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.361	1.671	-22.8#	136	0.00
39 T	Dibenz(a,h)anthracene	1.132	1.438	-27.0#	138	0.00
40 T	Benzo(g,h,i)perylene	1.190	1.424	-19.7	133	0.00



Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\070108\AS011.D
 Acq On : 1 Jul 2008 12:57 pm
 Sample : CALIBRATION CHECK
 Misc : 2.0/4.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008 # 11,12,13,14,15,16, 34,38,39 L.R.
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	122	0.00
2	T 1,4-Dioxane	4.000	4.174	-4.4	130	0.02
3	Pyridine	2.000	2.159	-7.9	126	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	117	0.00
5	S SURR4,NITROBENZENE-D5	2.000	2.148	-7.4	117	0.00
6	T Nitrobenzene	2.000	2.133	-6.7	120	0.00
7	T Naphthalene	2.000	2.195	-9.7	123	0.00
8	T 2-Methylnaphthalene	2.000	2.066	-3.3	118	0.00
9	T 1-Methylnaphthalene	2.000	2.039	-2.0	114	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	125	0.00
11	S SURR5,2-FLUOROBIPHENYL	2.000	1.698	15.1	112	0.00
12	T Acenaphthylene	2.000	1.662	16.9	110	0.00
13	Dimethyl phthalate	2.000	1.682	15.9	109	0.00
14	T Acenaphthene	2.000	1.633	18.4	107	0.00
15	T Dibenzofuran	2.000	1.639	18.1	107	0.00
16	T Fluorene	2.000	1.829	8.6	126	0.00
17	Diethylphthalate	2.000	1.856	7.2	120	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	125	0.00
19	T Hexachlorobenzene	2.000	2.095	-4.8	131	0.00
20	T Phenanthrene	2.000	2.153	-7.7	127	0.00
21	T Anthracene	2.000	2.216	-10.8	130	0.00
22	T Carbazole	2.000	2.332	-16.6	131	0.00
23	Octachlorostyrene	2.000	2.265	-13.3	131	0.00
24	Di-n-butylphthalate	2.000	2.223	-11.1	128	0.00
25	T Fluoranthene	2.000	2.176	-8.8	126	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	126	0.00
27	T Pyrene	2.000	2.166	-8.3	127	0.00
28	S SURR6,TERPHENYL-D14	2.000	2.098	-4.9	124	0.00
29	Butylbenzylphthalate	2.000	2.167	-8.3	124	0.00
30	T bis(2-Ethylhexyl)phthalate	4.000	4.454	-11.3	130	0.00
31	T Benzo(a)anthracene	2.000	2.151	-7.5	124	0.00
32	T Chrysene	2.000	2.070	-3.5	123	0.00
33	IR d12-Perylene	1.000	1.000	0.0	123	-0.01
34	Di-n-octylphthalate	2.000	2.095	-4.8	136	0.00
35	T Benzo(b)Fluoranthene	2.000	2.138	-6.9	127	0.00
36	T Benzo(k)fluoranthene	2.000	2.178	-8.9	126	0.00

(#) = Out of Range
 AS011.D LVI0626.M

Tue Jul 01 13:36:36 2008

VJ
 00931

Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\070108\AS011.D Vial: 1
 Acq On : 1 Jul 2008 12:57 pm Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	2.000	2.206	-10.3	129	0.00
38 T	Indeno(1,2,3-cd)Pyrene	2.000	2.231	-11.5	136	0.00
39 T	Dibenz(a,h)anthracene	2.000	2.222	-11.1	138	0.00
40 T	Benzo(g,h,i)perylene	2.000	2.393	-19.6	133	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS011.D Vial: 1
 Acq On : 1 Jul 2008 12:57 pm Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 13:24:00 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	102393	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	382043	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	187316	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	399750	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	377093	1.00	ppm	0.00
33) d12-Perylene	21.31	264	283525	1.00	ppm	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	470031	2.15	ppm	0.00
Spiked Amount 2.000	Range 22	- 124	Recovery	=	107.50%	
11) SURR5,2-FLUOROBIPHENYL	12.92	172	583745	1.70	ppm	0.00
Spiked Amount 2.000	Range 27	- 114	Recovery	=	85.00%	
28) SURR6,TERPHENYL-D14	16.25	244	669705	2.10	ppm	0.00
Spiked Amount 2.000	Range 23	- 139	Recovery	=	105.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.82	88	245175	4.17	ppm	94
3) Pyridine	6.68	79	420737	2.16	ppm	95
6) Nitrobenzene	11.29	77	484886	2.13	ppm	99
7) Naphthalene	11.97	128	861829	2.19	ppm	99
8) 2-Methylnaphthalene	12.60	142	542672	2.07	ppm	97
9) 1-Methylnaphthalene	12.70	142	520214	2.04	ppm	98
12) Acenaphthylene	13.42	152	748497	1.66	ppm	98
13) Dimethyl phthalate	13.28	163	485324	1.68	ppm	98
14) Acenaphthene	13.58	153	463584	1.63	ppm	97
15) Dibenzofuran	13.72	168	707140	1.64	ppm	99
16) Fluorene	14.00	166	586653	1.83	ppm	100
17) Diethylphthalate	13.88	149	570187	1.86	ppm	97
19) Hexachlorobenzene	14.49	284	217345	2.10	ppm	98
20) Phenanthrene	14.76	178	876702	2.15	ppm	98
21) Anthracene	14.80	178	872519	2.22	ppm	100
22) Carbazole	14.91	167	675098	2.33	ppm	98
23) Octachlorostyrene	15.71	380	54827	2.27	ppm	89
24) Di-n-butylphthalate	15.15	149	954385	2.22	ppm	99
25) Fluoranthene	15.88	202	908825	2.18	ppm	99
27) Pyrene	16.15	202	956664	2.17	ppm	98
29) Butylbenzylphthalate	16.85	149	413253	2.17	ppm	91
30) bis(2-Ethylhexyl)phthalate	17.72	149	1216102	4.45	ppm	97
31) Benzo(a)anthracene	17.79	228	885166	2.15	ppm	97
32) Chrysene	17.86	228	873257	2.07	ppm	99
34) Di-n-octylphthalate	18.96	149	841058	2.09	ppm	100
35) Benzo(b)Fluoranthene	20.17	252	860582	2.14	ppm	97

(#) = qualifier out of range (m) = manual integration
 AS011.D LVI0626.M Tue Jul 01 13:36:22 2008

JW

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS011.D Vial: 1
 Acq On : 1 Jul 2008 12:57 pm Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 13:24:00 2008 Quant Results File: LVI0626.RES

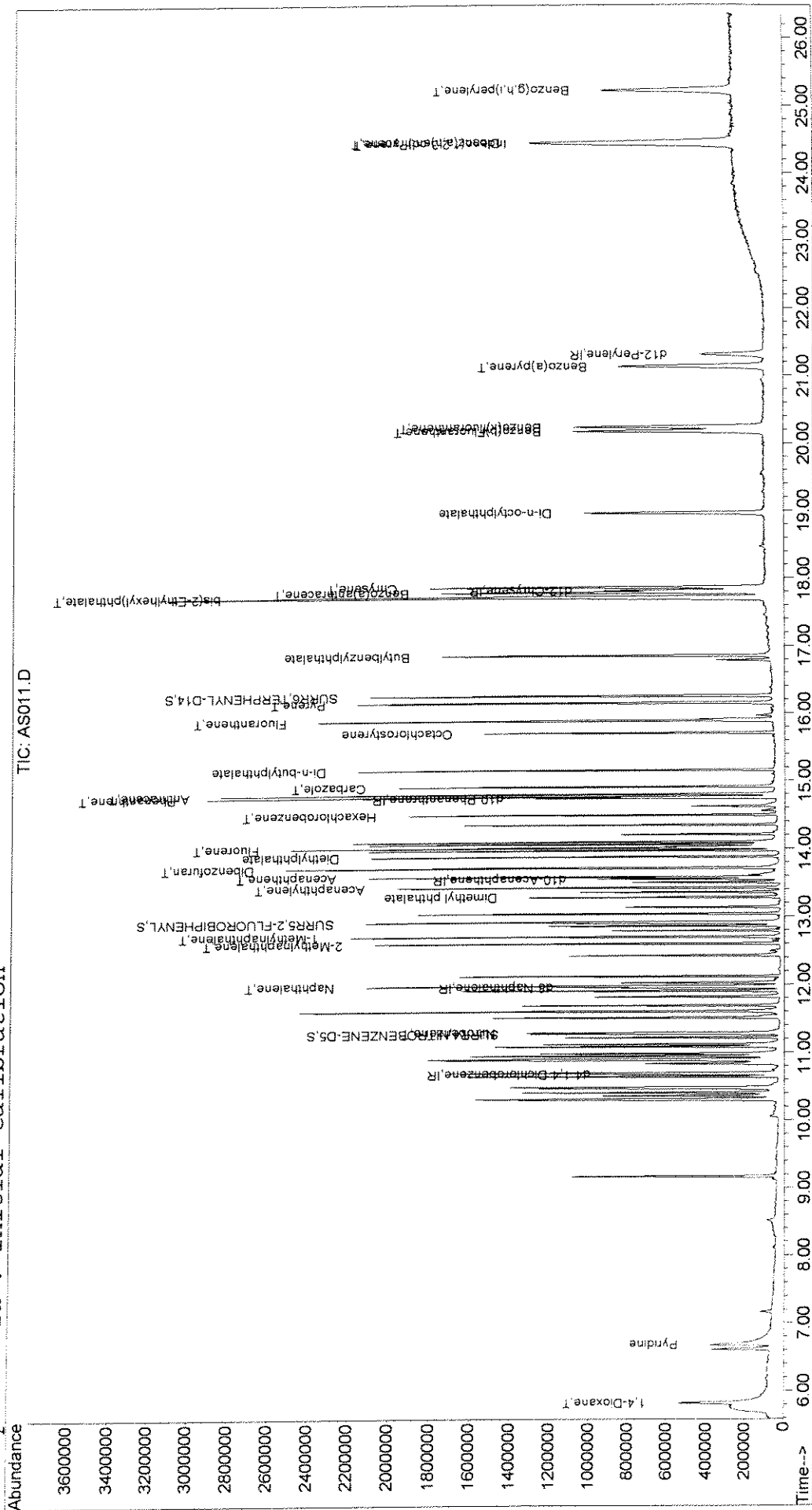
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	846847	2.18	ppm	94
37) Benzo(a)pyrene	21.14	252	752236	2.21	ppm	98
38) Indeno(1,2,3-cd)Pyrene	24.43	276	947681	2.23	ppm	98
39) Dibenz(a,h)anthracene	24.45	278	815331	2.22	ppm	98
40) Benzo(g,h,i)perylene	25.22	276	807226	2.39	ppm	100

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS011.D Vial: 1
 Acq On : 1 Jul 2008 12:57 pm Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 1 13:24 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\070208\AS035.D
 Acq On : 2 Jul 2008 7:56 am
 Sample : CALIBRATION CHECK
 Misc : 2.0/4.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration *# 11, 12, 13, 14, 15, 16, 34, 18, 39 L.R.*

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	114	0.00
2	T 1,4-Dioxane	0.574	0.590	-2.8	120	0.02
3	Pyridine	1.903	2.061	-8.3	118	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	113	0.00
5	S SURR4,NITROBENZENE-D5	0.573	0.605	-5.6	112	0.00
6	T Nitrobenzene	0.595	0.616	-3.5	113	0.00
7	T Naphthalene	1.028	1.095	-6.5	116	0.00
8	T 2-Methylnaphthalene	0.687	0.727	-5.8	117	0.00
9	T 1-Methylnaphthalene	0.668	0.698	-4.5	114	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	123	0.00
11	S SURR5,2-FLUOROBIPHENYL	1.685	1.587	5.8	113	0.00
12	T Acenaphthylene	2.191	2.098	4.2	114	0.00
13	Dimethyl phthalate	1.503	1.375	8.5	114	0.00
14	T Acenaphthene	1.410	1.293	8.3	110	0.00
15	T Dibenzofuran	2.125	1.947	8.4	109	0.00
16	T Fluorene	1.451	1.507	-3.9	119	0.00
17	Diethylphthalate	1.640	1.484	9.5	116	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	119	0.00
19	T Hexachlorobenzene	0.259	0.277	-6.9	126	0.00
20	T Phenanthrene	1.019	1.077	-5.7	118	0.00
21	T Anthracene	0.985	1.093	-11.0	123	0.00
22	T Carbazole	0.724	0.859	-18.6	126	0.00
23	Octachlorostyrene	0.061	0.066	-8.2	119	0.00
24	Di-n-butylphthalate	1.074	1.158	-7.8	118	0.00
25	T Fluoranthene	1.045	1.108	-6.0	116	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	116	0.00
27	T Pyrene	1.171	1.276	-9.0	118	0.00
28	S SURR6, TERPHENYL-D14	0.846	0.887	-4.8	114	0.00
29	Butyl benzyl phthalate	0.506	0.561	-10.9	117	0.00
30	T bis(2-Ethylhexyl)phthalate	0.724	0.809	-11.7	120	-0.01
31	T Benzo(a)anthracene	1.091	1.155	-5.9	113	0.00
32	T Chrysene	1.119	1.162	-3.8	114	0.00
33	IR d12-Perylene	1.000	1.000	0.0	111	-0.02
34	Di-n-octyl phthalate	1.274	1.489	-16.9	123	-0.01
35	T Benzo(b)Fluoranthene	1.420	1.542	-8.6	116	0.00
36	T Benzo(k)fluoranthene	1.372	1.494	-8.9	113	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\070208\AS035.D Vial: 1
 Acq On : 2 Jul 2008 7:56 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	1.203	1.328	-10.4	116	-0.01
38 T	Indeno(1,2,3-cd)Pyrene	1.361	1.553	-14.1	113	0.00
39 T	Dibenz(a,h)anthracene	1.132	1.243	-9.8	107	0.00
40 T	Benzo(g,h,i)perylene	1.190	1.413	-18.7	118	-0.01

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\070208\AS035.D Vial: 1
 Acq On : 2 Jul 2008 7:56 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008 # 11, 12, 13, 14, 15, 16, 34, 35, 39 L.R.
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	114	0.00
2	T 1,4-Dioxane	4.000	4.112	-2.8	120	0.02
3	Pyridine	2.000	2.165	-8.3	118	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	113	0.00
5	S SURR4, NITROBENZENE-D5	2.000	2.113	-5.6	112	0.00
6	T Nitrobenzene	2.000	2.071	-3.6	113	0.00
7	T Naphthalene	2.000	2.132	-6.6	116	0.00
8	T 2-Methylnaphthalene	2.000	2.114	-5.7	117	0.00
9	T 1-Methylnaphthalene	2.000	2.090	-4.5	114	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	123	0.00
11	S SURR5, 2-FLUOROBIPHENYL	2.000	1.726	13.7	113	0.00
12	T Acenaphthylene	2.000	1.735	13.2	114	0.00
13	Dimethyl phthalate	2.000	1.777	11.2	114	0.00
14	T Acenaphthene	2.000	1.698	15.1	110	0.00
15	T Dibenzofuran	2.000	1.683	15.8	109	0.00
16	T Fluorene	2.000	1.767	11.7	119	0.00
17	Diethylphthalate	2.000	1.810	9.5	116	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	119	0.00
19	T Hexachlorobenzene	2.000	2.137	-6.9	126	0.00
20	T Phenanthrene	2.000	2.115	-5.8	118	0.00
21	T Anthracene	2.000	2.220	-11.0	123	0.00
22	T Carbazole	2.000	2.372	-18.6	126	0.00
23	Octachlorostyrene	2.000	2.175	-8.7	119	0.00
24	Di-n-butylphthalate	2.000	2.157	-7.9	118	0.00
25	T Fluoranthene	2.000	2.121	-6.0	116	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	116	0.00
27	T Pyrene	2.000	2.180	-9.0	118	0.00
28	S SURR6, TERPHENYL-D14	2.000	2.097	-4.8	114	0.00
29	Butyl benzyl phthalate	2.000	2.217	-10.9	117	0.00
30	T bis(2-Ethylhexyl)phthalate	4.000	4.467	-11.7	120	-0.01
31	T Benzo(a)anthracene	2.000	2.118	-5.9	113	0.00
32	T Chrysene	2.000	2.077	-3.8	114	0.00
33	IR d12-Perylene	1.000	1.000	0.0	111	-0.02
34	Di-n-octyl phthalate	2.000	2.101	-5.0	123	-0.01
35	T Benzo(b)Fluoranthene	2.000	2.173	-8.7	116	0.00
36	T Benzo(k)fluoranthene	2.000	2.179	-8.9	113	0.00

(#) = Out of Range
 AS035.D LVI0626.M

Wed Jul 02 08:52:23 2008

Page 1

00336

Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\070208\AS035.D Vial: 1
 Acq On : 2 Jul 2008 7:56 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	2.000	2.208	-10.4	116	-0.01
38 T	Indeno(1,2,3-cd)Pyrene	2.000	2.083	-4.2	113	0.00
39 T	Dibenz(a,h)anthracene	2.000	1.947	2.6	107	0.00
40 T	Benzo(g,h,i)perylene	2.000	2.375	-18.8	118	-0.01

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS035.D
 Acq On : 2 Jul 2008 7:56 am
 Sample : CALIBRATION CHECK
 Misc : 2.0/4.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 08:23:39 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.67	152	95576	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	370559	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	184867	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	377883	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	347150	1.00	ppm	0.00
33) d12-Perylene	21.30	264	254340	1.00	ppm	-0.02

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	448442	2.11	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	105.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	586788	1.73	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	86.50%
28) SURR6,TERPHENYL-D14	16.25	244	616126	2.10	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	105.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.83	88	225440	4.11	ppm	95
3) Pyridine	6.69	79	393904	2.17	ppm	96
6) Nitrobenzene	11.29	77	456714	2.07	ppm	96
7) Naphthalene	11.97	128	811835	2.13	ppm	99
8) 2-Methylnaphthalene	12.59	142	538500	2.11	ppm	94
9) 1-Methylnaphthalene	12.70	142	516997	2.09	ppm	98
12) Acenaphthylene	13.42	152	775666	1.73	ppm	99
13) Dimethyl phthalate	13.28	163	508455	1.78	ppm	99
14) Acenaphthene	13.58	153	478191	1.70	ppm	94
15) Dibenzofuran	13.72	168	719785	1.68	ppm	99
16) Fluorene	14.00	166	557122	1.77	ppm	92
17) Diethylphthalate	13.88	149	548743	1.81	ppm	100
19) Hexachlorobenzene	14.49	284	209578	2.14	ppm	93
20) Phenanthrene	14.76	178	814303	2.12	ppm	98
21) Anthracene	14.80	178	826427	2.22	ppm	98
22) Carbazole	14.91	167	649127	2.37	ppm	98
23) Octachlorostyrene	15.70	380	49772	2.18	ppm	91
24) Di-n-butylphthalate	15.15	149	875534	2.16	ppm	99
25) Fluoranthene	15.88	202	837364	2.12	ppm	98
27) Pyrene	16.15	202	886173	2.18	ppm	99
29) Butyl benzyl phthalate	16.85	149	389342	2.22	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.71	149	1122792	4.47	ppm	97
31) Benzo(a)anthracene	17.78	228	802181	2.12	ppm	98
32) Chrysene	17.86	228	806625	2.08	ppm	98
34) Di-n-octyl phthalate	18.96	149	757232	2.10	ppm	100
35) Benzo(b)Fluoranthene	20.17	252	784585	2.17	ppm	99

(#) = qualifier out of range (m) = manual integration
 AS035.D LVI0626.M Wed Jul 02 08:52:05 2008

JW
 00940

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS035.D Vial: 1
 Acq On : 2 Jul 2008 7:56 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 08:23:39 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	760113	2.18	ppm	98
37) Benzo(a)pyrene	21.13	252	675335	2.21	ppm	98
38) Indeno(1,2,3-cd)Pyrene	24.42	276	790138	2.08	ppm	99
39) Dibenz(a,h)anthracene	24.45	278	632202	1.95	ppm	98
40) Benzo(g,h,i)perylene	25.21	276	718615	2.37	ppm	99

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\070308\AS061.D Vial: 1
 Acq On : 3 Jul 2008 11:25 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration # 11, 12, 13, 14, 15, 16, 34, 35, 39 L.R.

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	97	-0.01
2 T	1,4-Dioxane	0.574	0.576	-0.3	99	-0.01
3	Pyridine	1.903	2.054	-7.9	100	-0.02
4 IR	d8-Naphthalene	1.000	1.000	0.0	98	-0.01
5 S	SURR4,NITROBENZENE-D5	0.573	0.588	-2.6	94	-0.01
6 T	Nitrobenzene	0.595	0.611	-2.7	97	0.00
7 T	Naphthalene	1.028	1.063	-3.4	98	0.00
8 T	2-Methylnaphthalene	0.687	0.711	-3.5	99	-0.01
9 T	1-Methylnaphthalene	0.668	0.671	-0.4	95	-0.01
10 IR	d10-Acenaphthene	1.000	1.000	0.0	105	-0.01
11 S	SURR5,2-FLUOROBIPHENYL	1.685	1.599	5.1	97	0.00
12 T	Acenaphthylene	2.191	2.069	5.6	96	-0.01
13	Dimethyl phthalate	1.503	1.347	10.4	95	-0.01
14 T	Acenaphthene	1.410	1.279	9.3	93	-0.01
15 T	Dibenzofuran	2.125	1.974	7.1	94	0.00
16 T	Fluorene	1.451	1.569	-8.1	106	-0.01
17	Diethylphthalate	1.640	1.477	9.9	98	-0.01
18 IR	d10-Phenanthrene	1.000	1.000	0.0	106	-0.01
19 T	Hexachlorobenzene	0.259	0.270	-4.2	110	-0.01
20 T	Phenanthrene	1.019	1.076	-5.6	105	-0.01
21 T	Anthracene	0.985	1.092	-10.9	110	-0.01
22 T	Carbazole	0.724	0.751	-3.7	99	-0.01
23	Octachlorostyrene	0.061	0.068	-11.5	109	-0.02
24	Di-n-butylphthalate	1.074	1.160	-8.0	105	-0.01
25 T	Fluoranthene	1.045	1.120	-7.2	105	-0.02
26 IR	d12-Chrysene	1.000	1.000	0.0	104	-0.02
27 T	Pyrene	1.171	1.279	-9.2	105	-0.02
28 S	SURR6, TERPHENYL-D14	0.846	0.907	-7.2	104	-0.02
29	Butyl benzyl phthalate	0.506	0.541	-6.9	101	-0.02
30 T	bis(2-Ethylhexyl)phthalate	0.724	0.786	-8.6	104	-0.02
31 T	Benzo(a)anthracene	1.091	1.160	-6.3	101	-0.02
32 T	Chrysene	1.119	1.142	-2.1	100	-0.02
33 IR	d12-Perylene	1.000	1.000	0.0	98	-0.05
34	Di-n-octyl phthalate	1.274	1.387	-8.9	101	-0.03
35 T	Benzo(b)Fluoranthene	1.420	1.432	-0.8	95	-0.03
36 T	Benzo(k)fluoranthene	1.372	1.446	-5.4	97	-0.03

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\070308\AS061.D Vial: 1
 Acq On : 3 Jul 2008 11:25 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	1.203	1.295	-7.6	100	-0.04
38 T	Indeno(1,2,3-cd)Pyrene	1.361	1.464	-7.6	94	-0.04
39 T	Dibenz(a,h)anthracene	1.132	1.277	-12.8	97	-0.04
40 T	Benzo(g,h,i)perylene	1.190	1.268	-6.6	94	-0.05

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\070308\AS061.D Vial: 1
 Acq On : 3 Jul 2008 11:25 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008 # 11, 12, 13, 14, 15, 16, 34, 38, 39 L-R.
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev (min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	97	-0.01
2	T 1,4-Dioxane	4.000	4.014	-0.4	99	-0.01
3	Pyridine	2.000	2.159	-7.9	100	-0.02
4	IR d8-Naphthalene	1.000	1.000	0.0	98	-0.01
5	S SURR4,NITROBENZENE-D5	2.000	2.054	-2.7	94	-0.01
6	T Nitrobenzene	2.000	2.054	-2.7	97	0.00
7	T Naphthalene	2.000	2.068	-3.4	98	0.00
8	T 2-Methylnaphthalene	2.000	2.068	-3.4	99	-0.01
9	T 1-Methylnaphthalene	2.000	2.009	-0.4	95	-0.01
10	IR d10-Acenaphthene	1.000	1.000	0.0	105	-0.01
11	S SURR5,2-FLUOROBIPHENYL	2.000	1.737	13.1	97	0.00
12	T Acenaphthylene	2.000	1.714	14.3	96	-0.01
13	Dimethyl phthalate	2.000	1.743	12.8	95	-0.01
14	T Acenaphthene	2.000	1.681	15.9	93	-0.01
15	T Dibenzofuran	2.000	1.703	14.8	94	0.00
16	T Fluorene	2.000	1.832	8.4	106	-0.01
17	Diethylphthalate	2.000	1.801	10.0	98	-0.01
18	IR d10-Phenanthrene	1.000	1.000	0.0	106	-0.01
19	T Hexachlorobenzene	2.000	2.080	-4.0	110	-0.01
20	T Phenanthrene	2.000	2.112	-5.6	105	-0.01
21	T Anthracene	2.000	2.217	-10.9	110	-0.01
22	T Carbazole	2.000	2.073	-3.6	99	-0.01
23	Octachlorostyrene	2.000	2.239	-11.9	109	-0.02
24	Di-n-butylphthalate	2.000	2.159	-7.9	105	-0.01
25	T Fluoranthene	2.000	2.144	-7.2	105	-0.02
26	IR d12-Chrysene	1.000	1.000	0.0	104	-0.02
27	T Pyrene	2.000	2.184	-9.2	105	-0.02
28	S SURR6, TERPHENYL-D14	2.000	2.144	-7.2	104	-0.02
29	Butyl benzyl phthalate	2.000	2.139	-6.9	101	-0.02
30	T bis(2-Ethylhexyl)phthalate	4.000	4.343	-8.6	104	-0.02
31	T Benzo(a)anthracene	2.000	2.126	-6.3	101	-0.02
32	T Chrysene	2.000	2.041	-2.0	100	-0.02
33	IR d12-Perylene	1.000	1.000	0.0	98	-0.05
34	Di-n-octyl phthalate	2.000	1.981	0.9	101	-0.03
35	T Benzo(b)Fluoranthene	2.000	2.017	-0.8	95	-0.03
36	T Benzo(k)fluoranthene	2.000	2.108	-5.4	97	-0.03

(#) = Out of Range
 AS061.D LVI0626.M

Thu Jul 03 12:10:27 2008

JW

00945

Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\070308\AS061.D Vial: 1
 Acq On : 3 Jul 2008 11:25 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		Amount	Calc.	%Dev	Area%	Dev(min)
37	T Benzo(a)pyrene	2.000	2.154	-7.7	100	-0.04
38	T Indeno(1,2,3-cd)Pyrene	2.000	1.971	1.4	94	-0.04
39	T Dibenz(a,h)anthracene	2.000	1.995	0.2	97	-0.04
40	T Benzo(g,h,i)perylene	2.000	2.132	-6.6	94	-0.05

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070308\AS061.D
 Acq On : 3 Jul 2008 11:25 am
 Sample : CALIBRATION CHECK
 Misc : 2.0/4.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jul 03 11:52:28 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	81123	1.00	ppm	-0.01
4) d8-Naphthalene	11.94	136	320607	1.00	ppm	-0.01
10) d10-Acenaphthene	13.54	164	157453	1.00	ppm	-0.01
18) d10-Phenanthrene	14.73	188	337691	1.00	ppm	-0.01
26) d12-Chrysene	17.80	240	310069	1.00	ppm	-0.02
33) d12-Perylene	21.27	264	225309	1.00	ppm	-0.05

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.26	82	377129	2.05	ppm	-0.01
Spiked Amount 2.000	Range	22 - 124	Recovery	=	102.50%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	503526	1.74	ppm	0.00
Spiked Amount 2.000	Range	27 - 114	Recovery	=	87.00%	
28) SURR6,TERPHENYL-D14	16.24	244	562607	2.14	ppm	-0.02
Spiked Amount 2.000	Range	23 - 139	Recovery	=	107.00%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.79	88	186797	4.01	ppm	98
3) Pyridine	6.66	79	333326	2.16	ppm	97
6) Nitrobenzene	11.28	77	391995	2.05	ppm	92
7) Naphthalene	11.96	128	681429	2.07	ppm	97
8) 2-Methylnaphthalene	12.59	142	455750	2.07	ppm	97
9) 1-Methylnaphthalene	12.69	142	429972	2.01	ppm	98
12) Acenaphthylene	13.41	152	651679	1.71	ppm	100
13) Dimethyl phthalate	13.27	163	424035	1.74	ppm	99
14) Acenaphthene	13.57	153	402738	1.68	ppm	98
15) Dibenzofuran	13.71	168	621492	1.70	ppm	98
16) Fluorene	13.99	166	494051	1.83	ppm	98
17) Diethylphthalate	13.87	149	465122	1.80	ppm	100
19) Hexachlorobenzene	14.48	284	182257	2.08	ppm	98
20) Phenanthrene	14.75	178	726633	2.11	ppm	99
21) Anthracene	14.78	178	737522	2.22	ppm	98
22) Carbazole	14.90	167	507031	2.07	ppm	98
23) Octachlorostyrene	15.69	380	45771	2.24	ppm	88
24) Di-n-butylphthalate	15.14	149	783154	2.16	ppm	99
25) Fluoranthene	15.87	202	756412	2.14	ppm	98
27) Pyrene	16.14	202	793160	2.18	ppm	99
29) Butyl benzyl phthalate	16.83	149	335388	2.14	ppm	96
30) bis(2-Ethylhexyl)phthalate	17.70	149	974879	4.34	ppm	97
31) Benzo(a)anthracene	17.77	228	719386	2.13	ppm	100
32) Chrysene	17.84	228	708268	2.04	ppm	99
34) Di-n-octyl phthalate	18.94	149	624988	1.98	ppm	97
35) Benzo(b)Fluoranthene	20.14	252	645250	2.02	ppm	99

(#) = qualifier out of range (m) = manual integration
 AS061.D LVI0626.M Thu Jul 03 12:10:14 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070308\AS061.D Vial: 1
 Acq On : 3 Jul 2008 11:25 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 03 11:52:28 2008 Quant Results File: LVI0626.RES

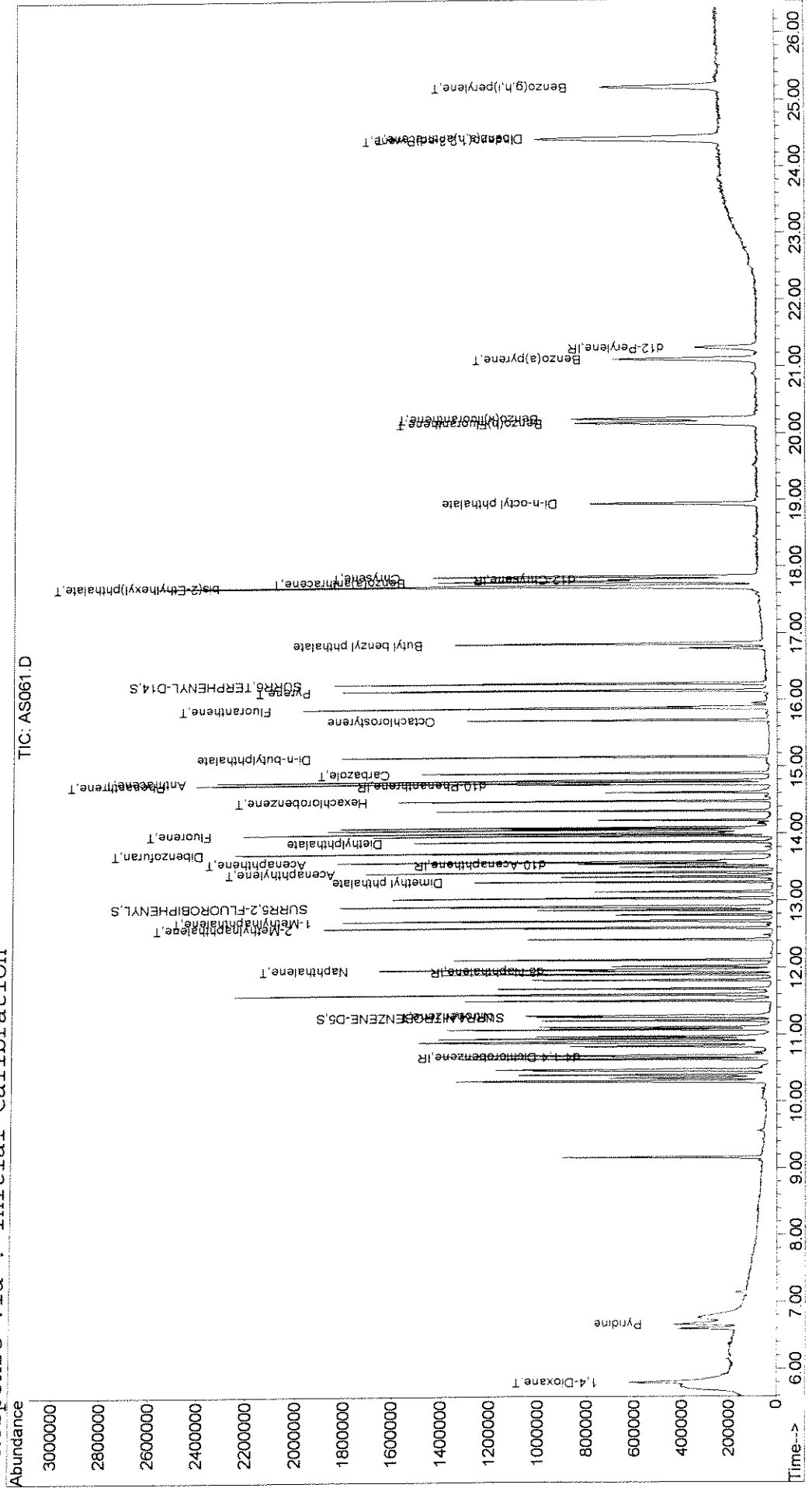
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k) fluoranthene	20.21	252	651513	2.11	ppm	96
37) Benzo(a)pyrene	21.10	252	583634	2.15	ppm	97
38) Indeno(1,2,3-cd)Pyrene	24.38	276	659494	1.97	ppm	96
39) Dibenz(a,h)anthracene	24.42	278	575495	2.00	ppm	96
40) Benzo(g,h,i)perylene	25.17	276	571547	2.13	ppm	98

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070308\AS061.D
 Acq On : 3 Jul 2008 11:25 am Vial: 1
 Sample : CALIBRATION CHECK Operator: J.Wu
 Misc : 2.0/4.0 PPM STD 8270.LL Inst : 5973C
 MS Integration Params: RTEINT.P Multiplr: 1.00
 Quant Time: Jul 3 11:52 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR926.D Vial: 1
 Acq On : 26 Jun 2008 4:24 pm Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 09:48:43 2008 Quant Results File: TUNEC.RES

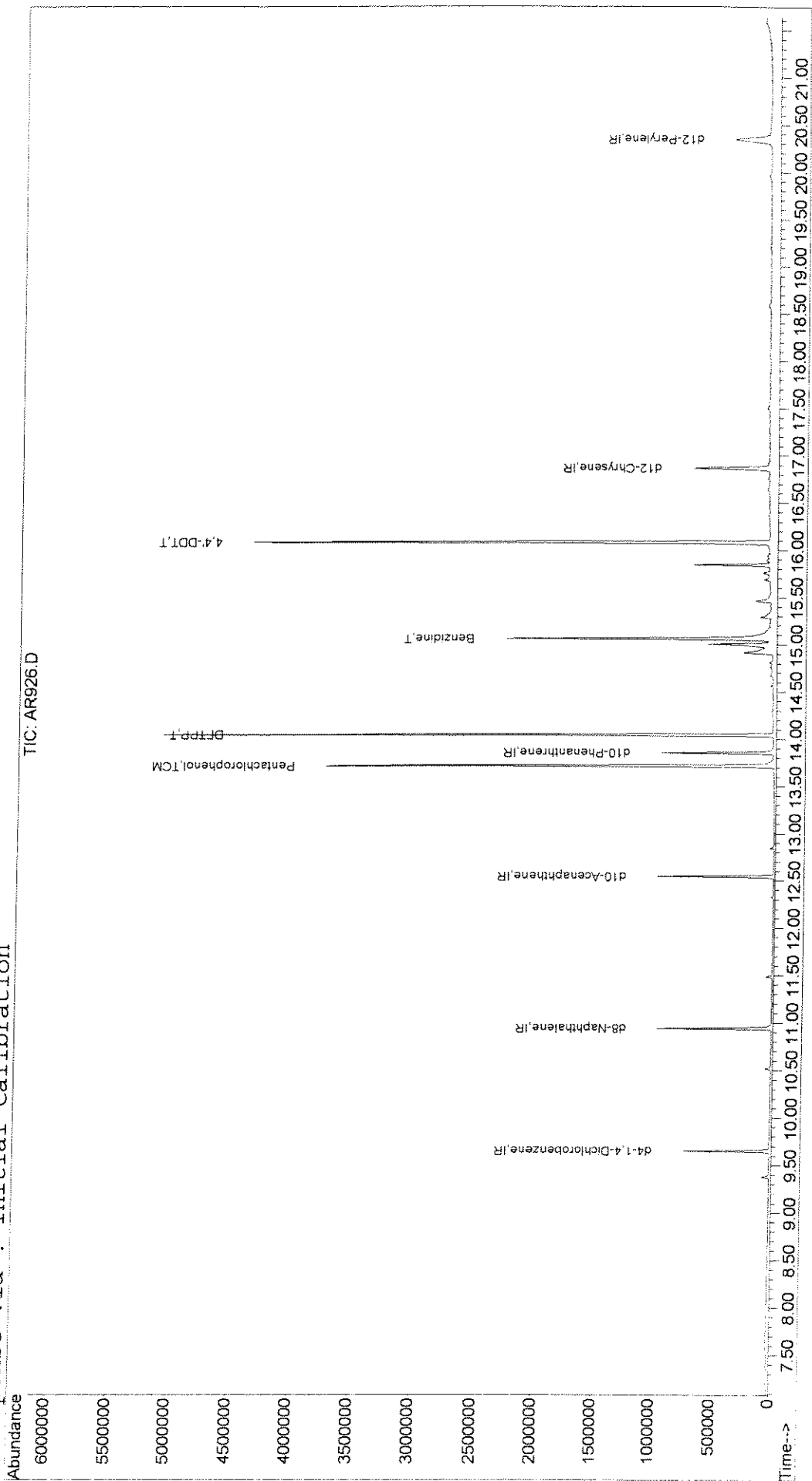
Quant Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:48:38 2008
 Response via : Initial Calibration
 DataAcq Meth : TUNEC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) d4-1,4-Dichlorobenzene	9.65	152	101217	1.00	ppm	0.00	
2) d8-Naphthalene	10.94	136	378939	1.00	ppm	0.00	
3) d10-Acenaphthene	12.55	164	199875	1.00	ppm	0.00	
4) d10-Phenanthrene	13.85	188	363223	1.00	ppm	0.00	
7) d12-Chrysene	16.87	240	321789	1.00	ppm	0.00	
12) d12-Perylene	20.34	264	252004	1.00	ppm	0.00	
							Qvalue
Target Compounds							
5) Pentachlorophenol	13.72	266	454969	10.00	ppm	100	
6) DFTPP	14.05	198	413946	10.00	ppm	100	
8) Benzidine	15.06	184	1130989	10.00	ppm	100	
9) 4,4'-DDE	0.00	246	0	N.D.			
10) 4,4'-DDD	0.00	235	0	N.D.	d		
11) 4,4'-DDT	16.08	235	905664	10.00	ppm	100	

Quantitation Report (QT Reviewed)

Data File : J:\ACQU\DATA\5973C\DATA\062608\AR926.D
Acq On : 26 Jun 2008 4:24 pm Vial: 1
Sample : TUNE CHECK Operator: J.Wu
Misc : 20 ng DFTPP Inst : 5973C
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: Jun 27 9:49 2008 Quant Results File: TUNEC.RES

Method : J:\ACQU\DATA\5973C\METHODS\TUNEC.M (RTE Integrator)
Title : TUNE CHECK
Last Update : Fri Jun 27 09:49:26 2008
Response via : Initial Calibration



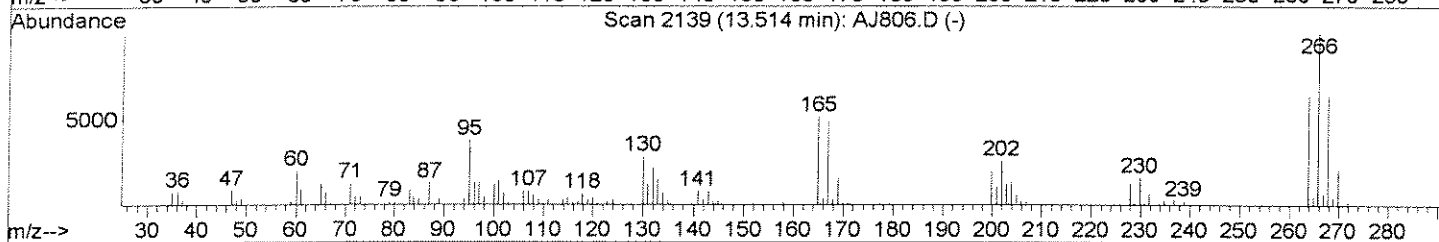
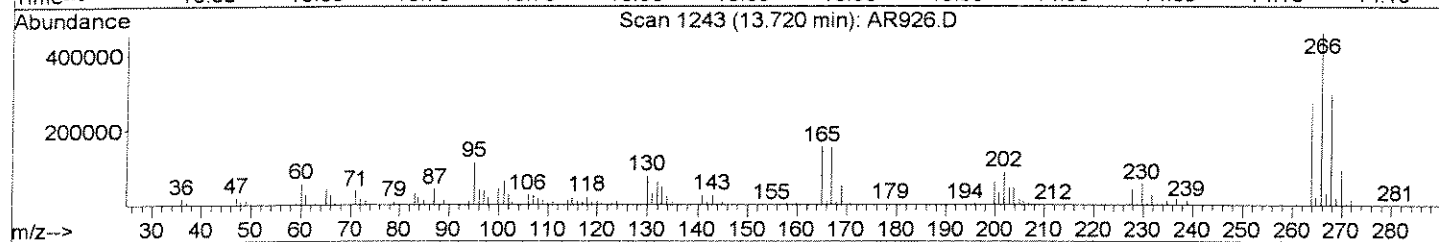
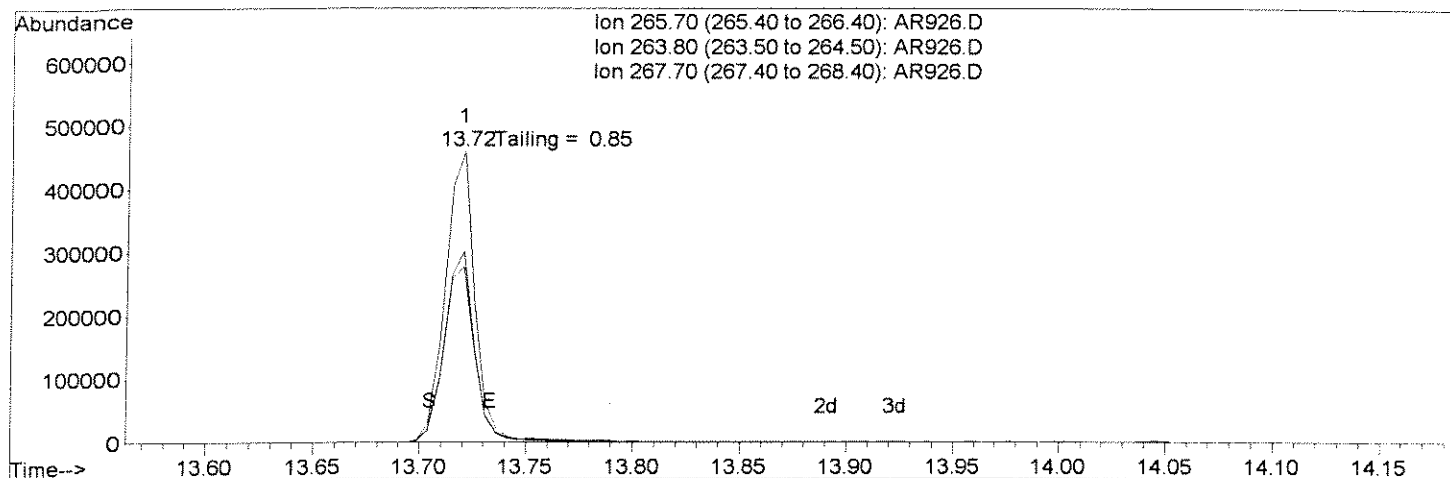
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR926.D
 Acq On : 26 Jun 2008 4:24 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 9:48 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:48:38 2008
 Response via : Single Level Calibration



TIC: AR926.D

(5) Pentachlorophenol (TCM)

13.72min 10.00ppm

response 454969

Ion	Exp%	Act%
265.70	100	100
263.80	60.30	60.35
267.70	65.70	65.67
0.00	0.00	0.00

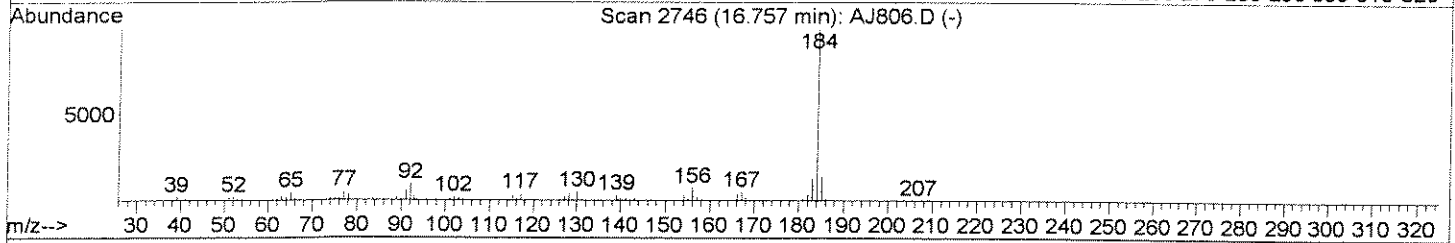
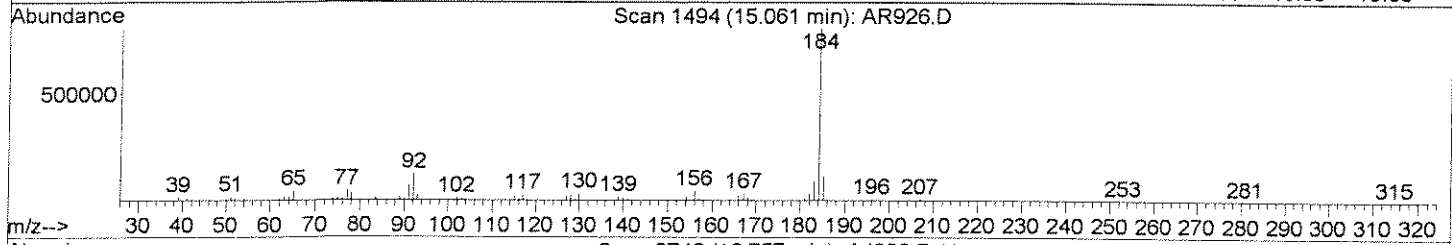
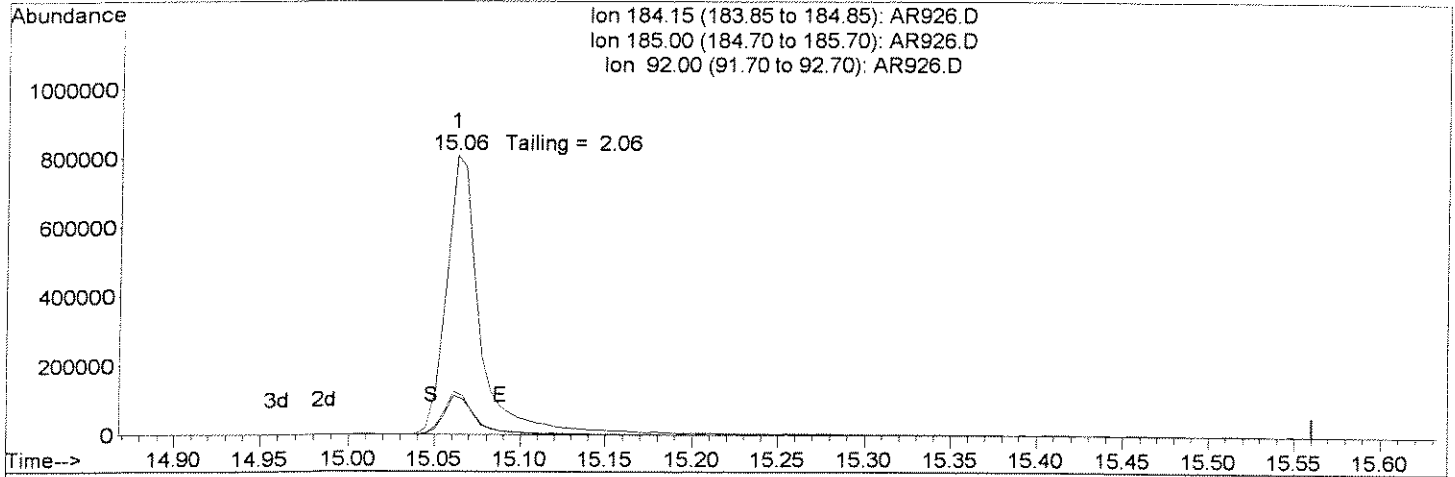
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR926.D
 Acq On : 26 Jun 2008 4:24 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 9:48 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:48:38 2008
 Response via : Single Level Calibration



TIC: AR926.D

(8) Benzidine (T)

15.06min 10.00ppm

response 1130989

Ion	Exp%	Act%
184.15	100	100
185.00	14.00	14.00
92.00	15.40	15.45
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR981.D Vial: 1
 Acq On : 30 Jun 2008 8:51 am Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 09:12:53 2008 Quant Results File: TUNEC.RES

Quant Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Initial Calibration
 DataAcq Meth : TUNEC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	9.65	152	99073	1.00	ppm	0.00
2) d8-Naphthalene	10.94	136	404610	1.00	ppm	0.00
3) d10-Acenaphthene	12.55	164	200622	1.00	ppm	0.00
4) d10-Phenanthrene	13.86	188	331386	1.00	ppm	0.00
7) d12-Chrysene	16.87	240	354918	1.00	ppm	0.00
12) d12-Perylene	20.35	264	299175	1.00	ppm	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Pentachlorophenol	13.72	266	635544	15.31	ppm	97
6) DFTPP	14.05	198	586597	15.53	ppm	95
8) Benzidine	15.07	184	1098736	8.81	ppm	99
9) 4,4'-DDE	0.00	246	0	N.D.		
10) 4,4'-DDD	0.00	235	0	N.D.	d	
11) 4,4'-DDT	16.09	235	1287258	12.89	ppm	98

JW
 00954

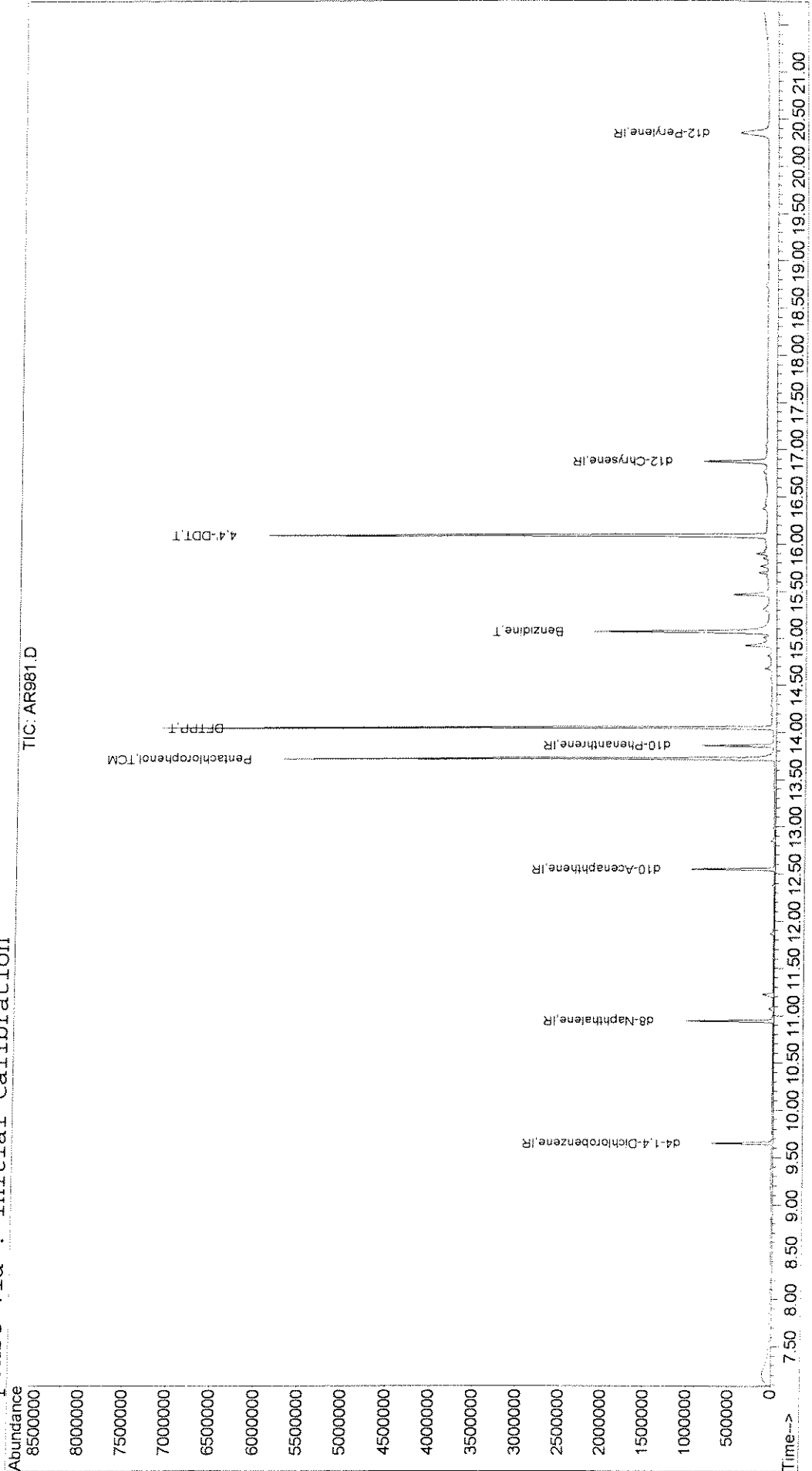
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR981.D
 Acq On : 30 Jun 2008 8:51 am
 Sample : TUNE CHECK
 Misc : 20 ng DFIPP
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 9:17 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: TUNEC.RES

Method : J:\ACQDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Initial Calibration



000355

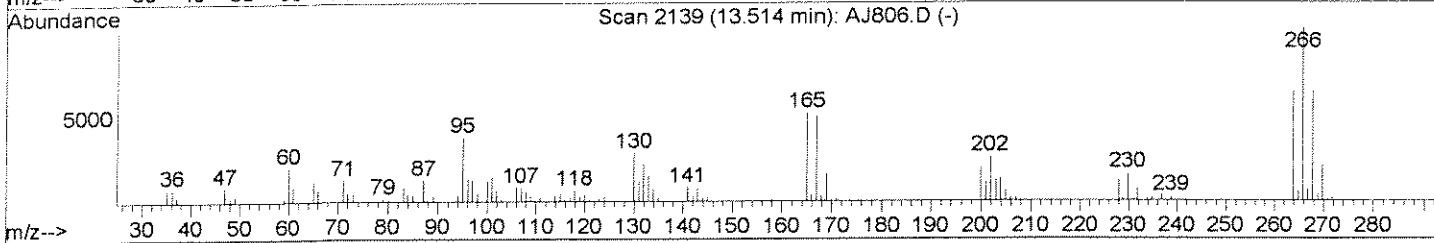
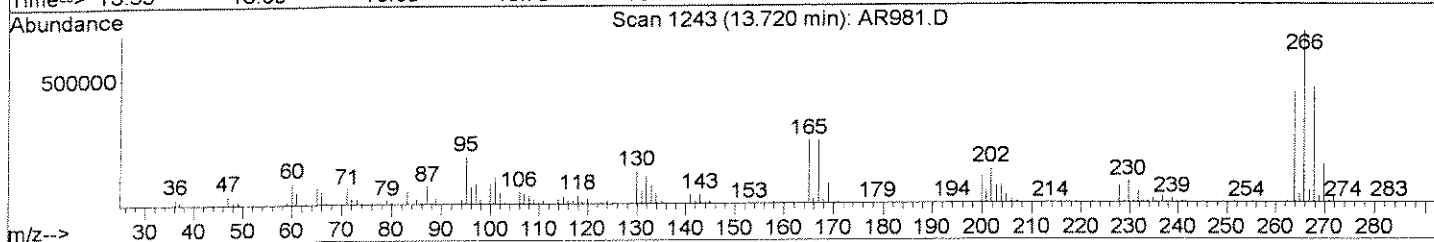
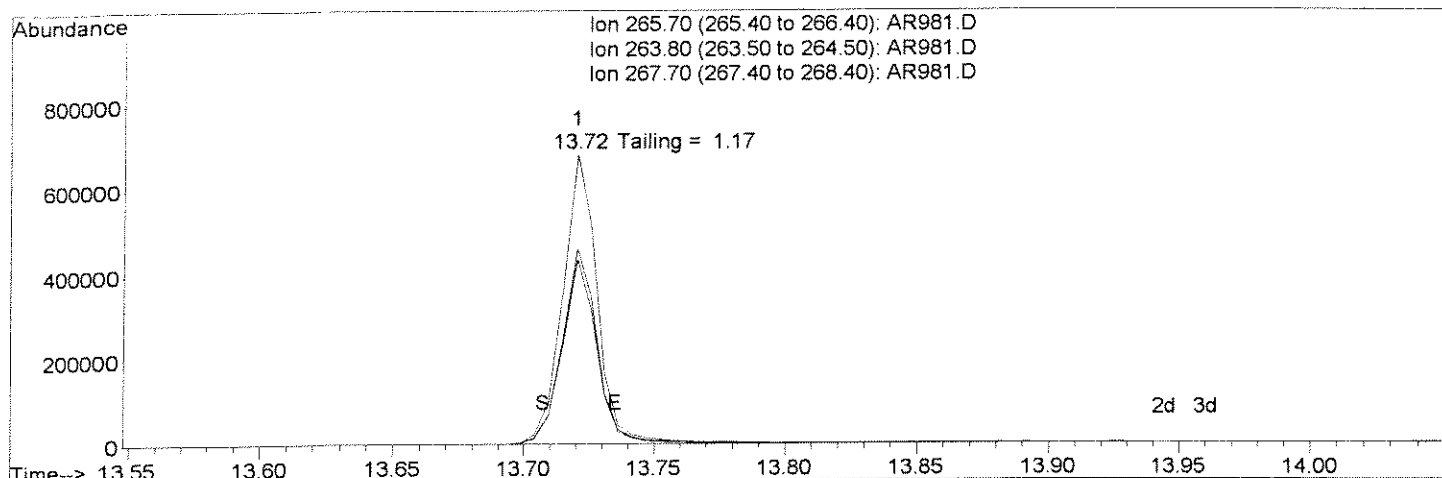
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR981.D
 Acq On : 30 Jun 2008 8:51 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 9:12 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



TIC: AR981.D

(5) Pentachlorophenol (TCM)

13.72min 15.31ppm

response 635544

Ion	Exp%	Act%
265.70	100	100
263.80	60.30	63.64
267.70	65.70	67.43
0.00	0.00	0.00

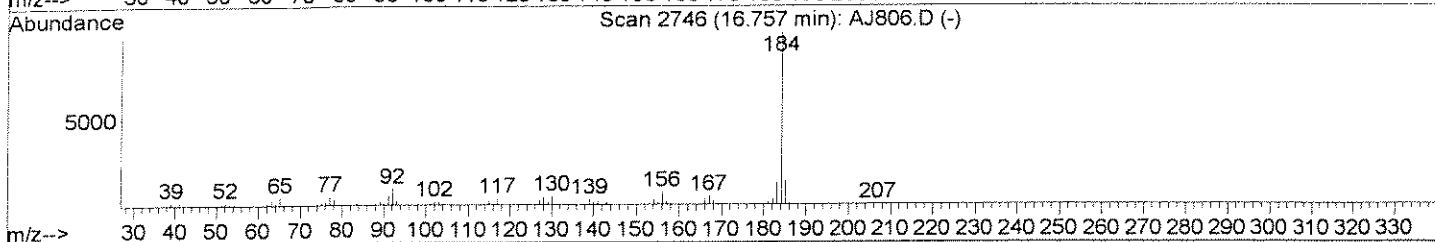
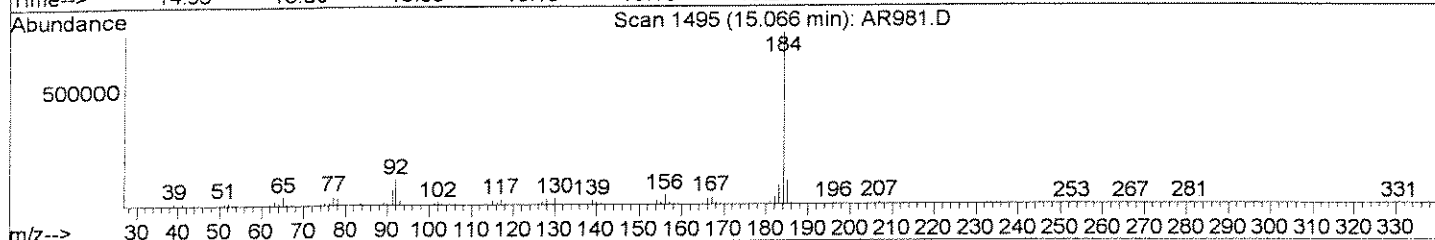
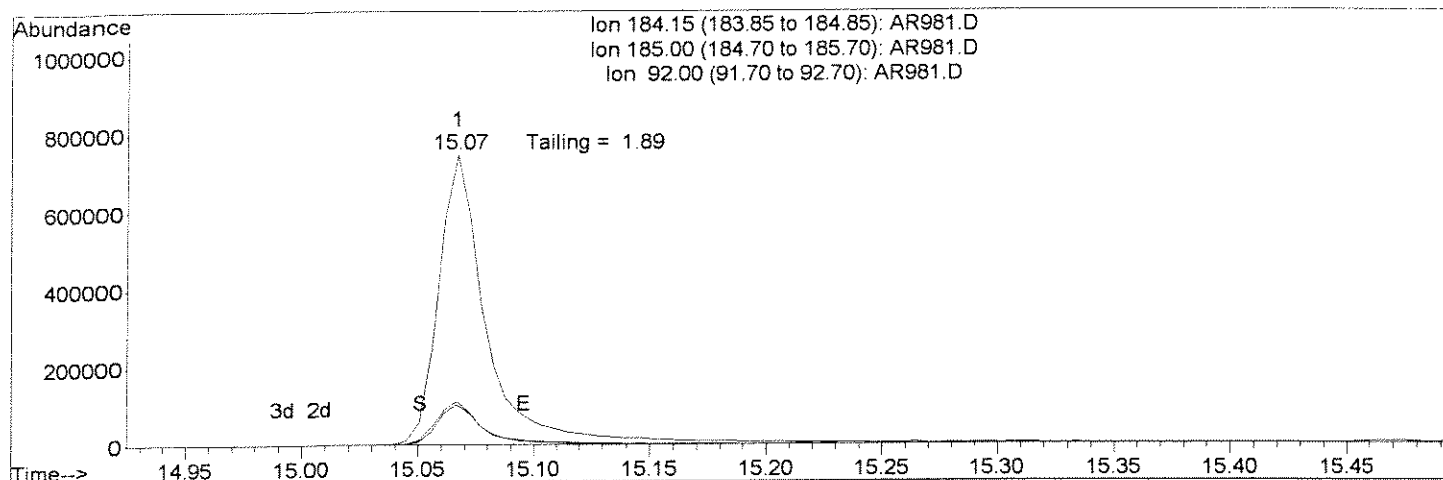
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR981.D
 Acq On : 30 Jun 2008 8:51 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 9:12 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



TIC: AR981.D

(8) Benzidine (T)

15.07min 8.81ppm

response 1098736

Ion	Exp%	Act%
184.15	100	100
185.00	14.00	13.76
92.00	15.40	14.99
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS010.D
 Acq On : 1 Jul 2008 12:22 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 12:44:25 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: TUNEC.RES

Quant Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Initial Calibration
 DataAcq Meth : TUNEC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	9.65	152	94562	1.00	ppm	0.00
2) d8-Naphthalene	10.94	136	378057	1.00	ppm	0.00
3) d10-Acenaphthene	12.54	164	177985	1.00	ppm	0.00
4) d10-Phenanthrene	13.86	188	292086	1.00	ppm	0.00
7) d12-Chrysene	16.87	240	345118	1.00	ppm	0.00
12) d12-Perylene	20.34	264	262323	1.00	ppm	0.00

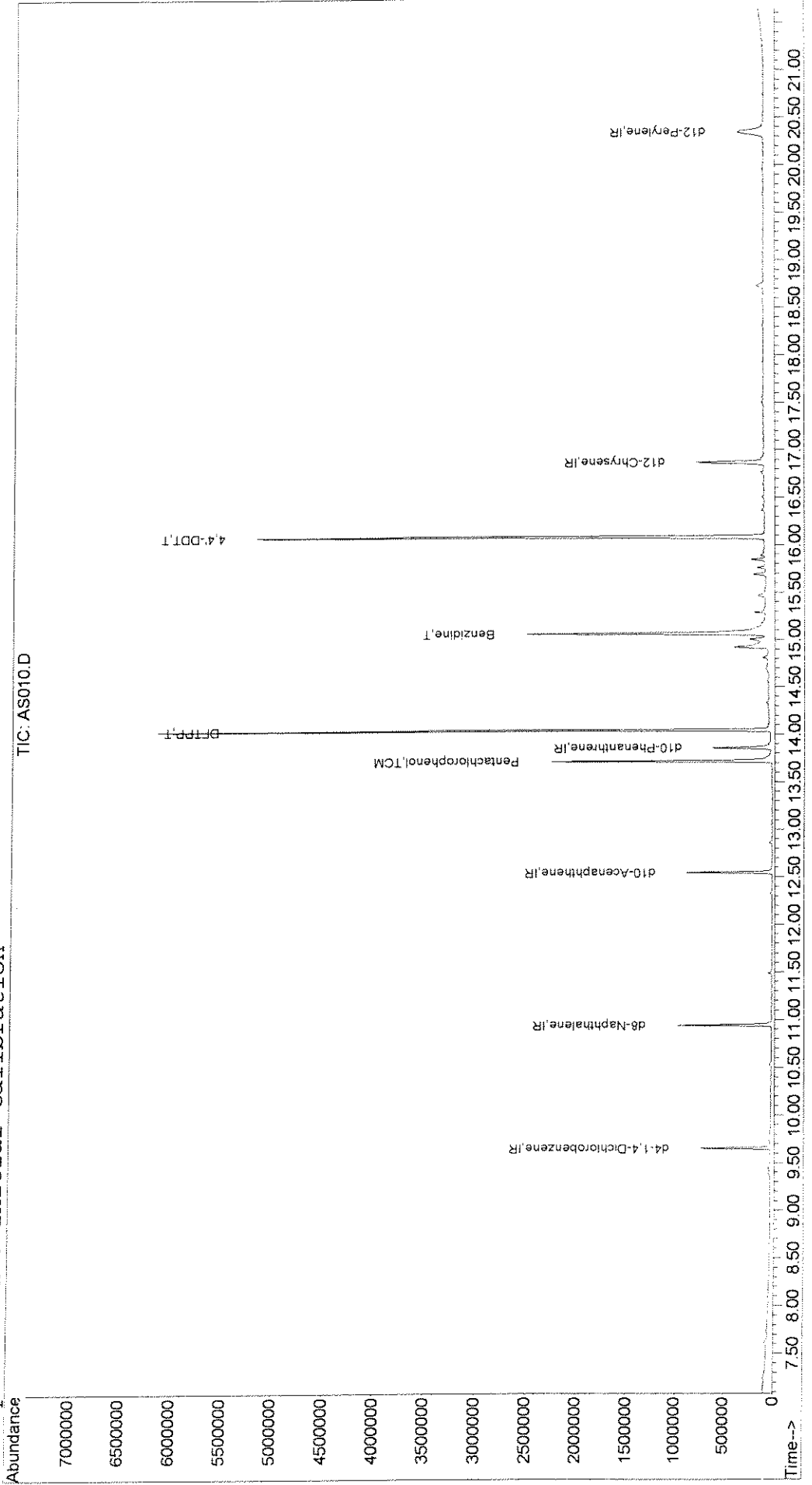
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Pentachlorophenol	13.72	266	294712	8.06	ppm	98
6) DFTPP	14.05	198	500378	15.03	ppm	91
8) Benzidine	15.06	184	1393986	11.49	ppm	100
9) 4,4'-DDE	0.00	246	0	N.D.	d	
10) 4,4'-DDD	0.00	235	0	N.D.	d	
11) 4,4'-DDT	16.08	235	1100037	11.33	ppm	97



Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS010.D
Acq On : 1 Jul 2008 12:22 pm Vial: 1
Sample : TUNE CHECK Operator: J.Wu
Misc : 20 ng DFTPP Inst : 5973C
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: Jul 1 13:39 2008 Quant Results File: TUNEC.RES

Method : J:\ACQDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
Title : TUNE CHECK
Last Update : Fri Jun 27 09:49:26 2008
Response via : Initial Calibration



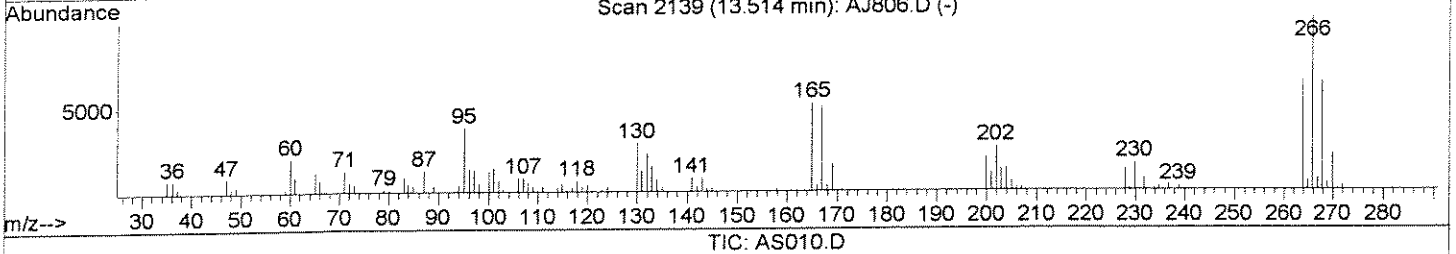
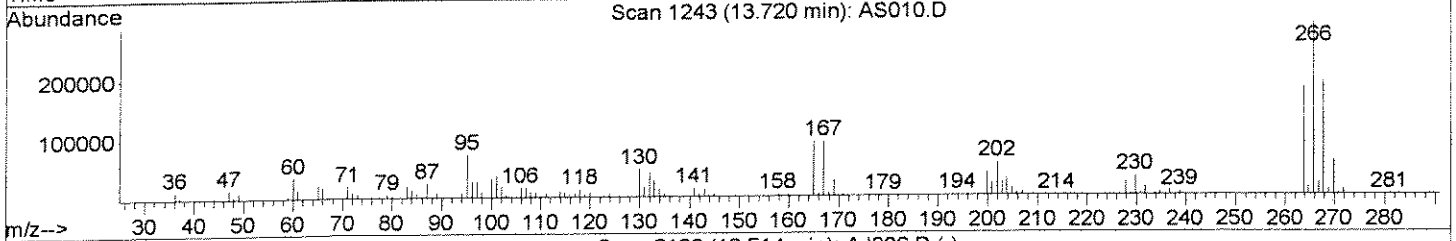
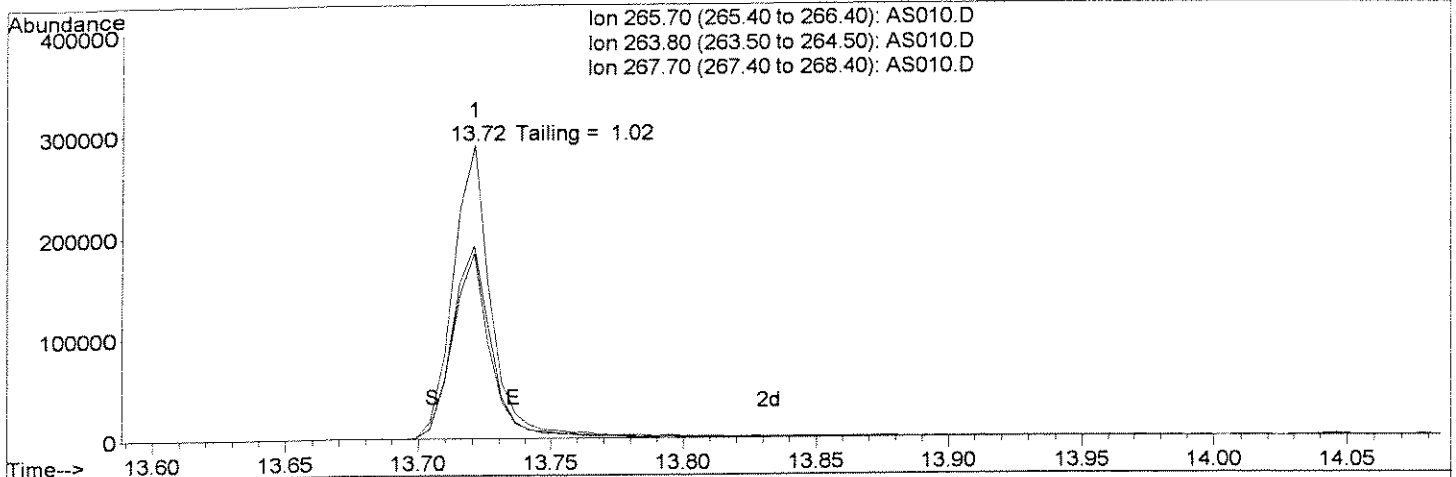
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS010.D
 Acq On : 1 Jul 2008 12:22 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jul 1 12:44 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



(5) Pentachlorophenol (TCM)

13.72min 8.06ppm

response 294712

Ion	Exp%	Act%
265.70	100	100
263.80	60.30	62.96
267.70	65.70	65.74
0.00	0.00	0.00

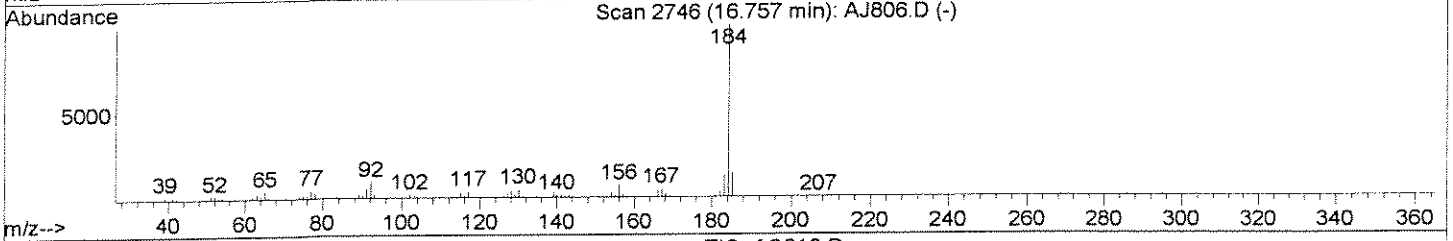
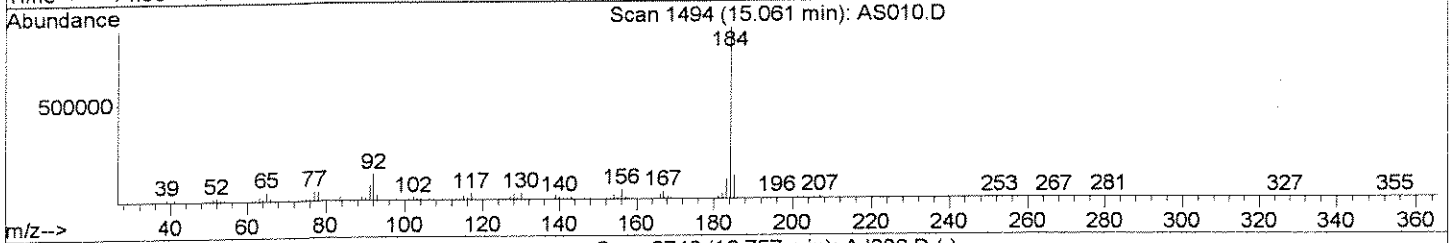
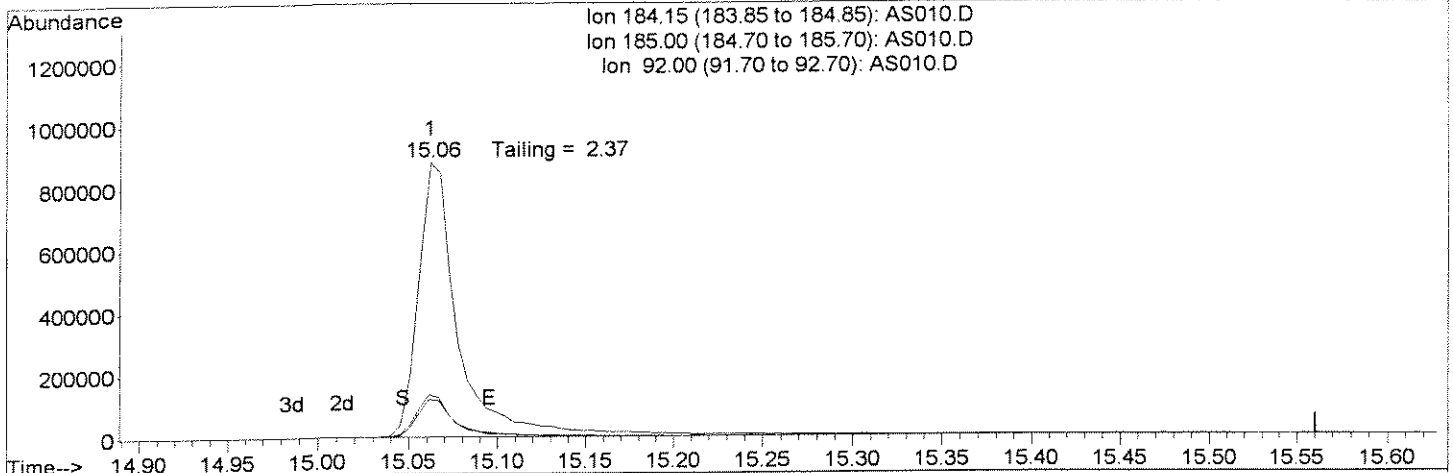
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS010.D
 Acq On : 1 Jul 2008 12:22 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jul 1 12:44 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



TIC: AS010.D

(8) Benzidine (T)

15.06min 11.49ppm
 response 1393986

Ion	Exp%	Act%
184.15	100	100
185.00	14.00	13.76
92.00	15.40	15.57
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070208\AS034.D
 Acq On : 2 Jul 2008 7:27 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 07:49:08 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: TUNEC.RES

Quant Method : J:\ACQUADATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Initial Calibration
 DataAcq Meth : TUNEC

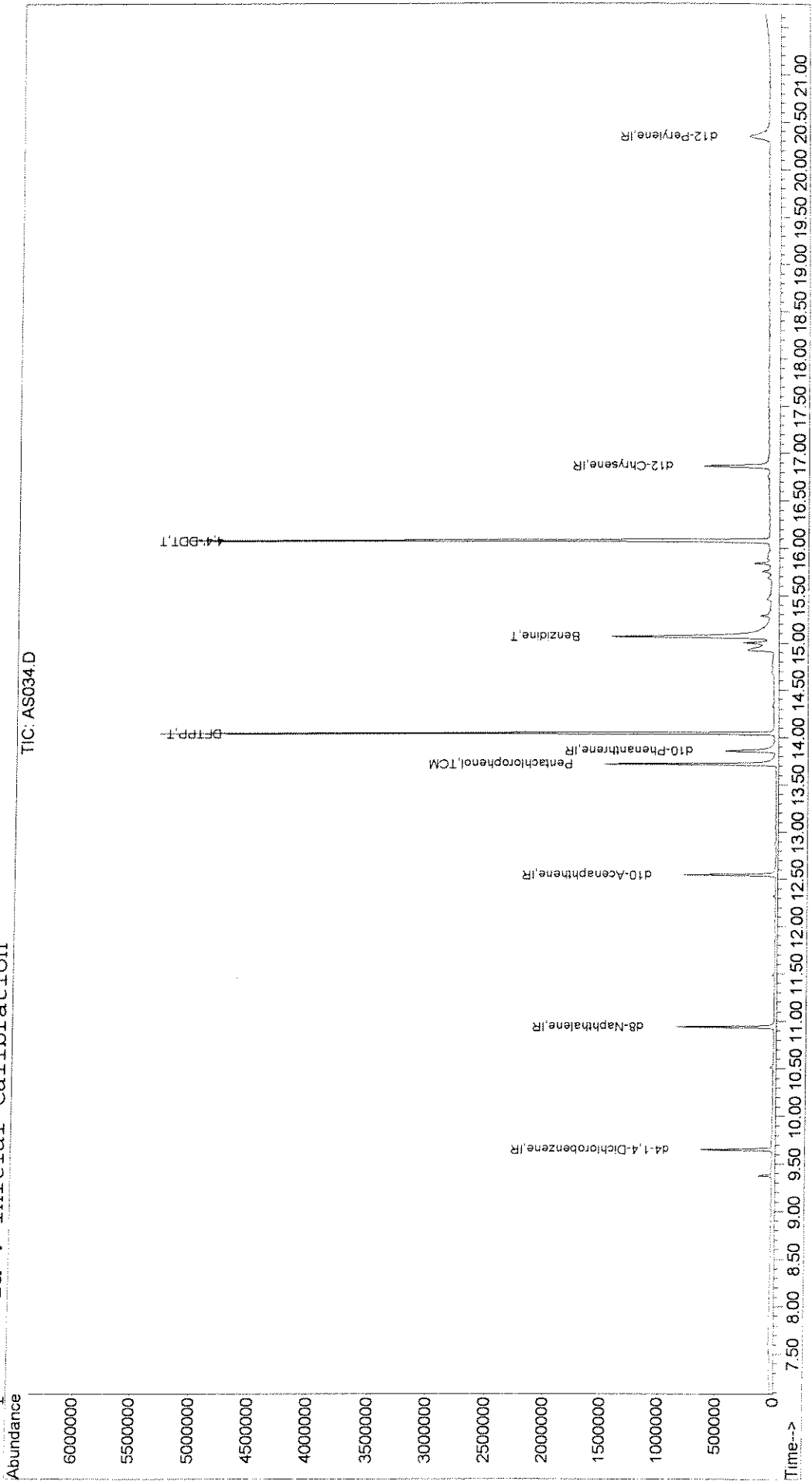
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	9.65	152	91734	1.00	ppm	0.00
2) d8-Naphthalene	10.94	136	358880	1.00	ppm	0.00
3) d10-Acenaphthene	12.54	164	174831	1.00	ppm	0.00
4) d10-Phenanthrene	13.86	188	273818	1.00	ppm	0.00
7) d12-Chrysene	16.87	240	302722	1.00	ppm	0.00
12) d12-Perylene	20.35	264	204649	1.00	ppm	0.00
						Qvalue
Target Compounds						
5) Pentachlorophenol	13.72	266	214092	6.24	ppm	96
6) DFTPP	14.04	198	432161	13.85	ppm	90
8) Benzidine	15.07	184	1024236	9.63	ppm	99
9) 4,4'-DDE	0.00	246	0	N.D.		
10) 4,4'-DDD	0.00	235	0	N.D.	d	
11) 4,4'-DDT	16.08	235	1112830	13.06	ppm	97

JW
 00962

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS034.D
Acq On : 2 Jul 2008 7:27 am Vial: 1
Sample : TUNE CHECK Operator: J.Wu
Misc : 20 ng DFPPP Inst : 5973C
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: Jul 2 7:53 2008 Quant Results File: TUNEC.RES

Method : J:\ACQDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
Title : TUNE CHECK
Last Update : Fri Jun 27 09:49:26 2008
Response via : Initial Calibration



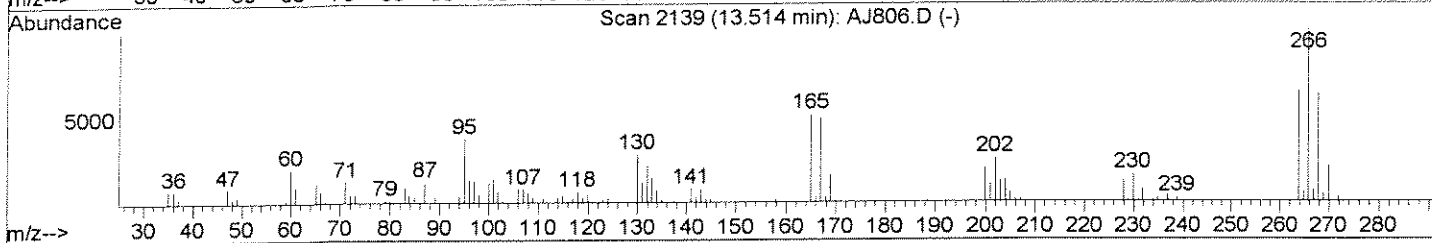
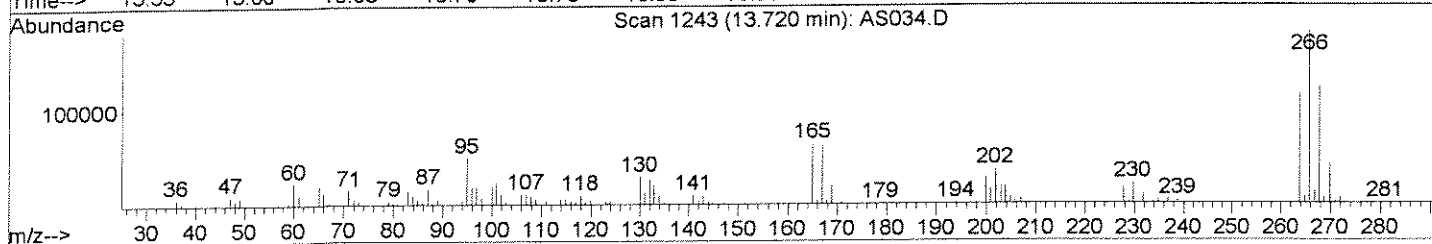
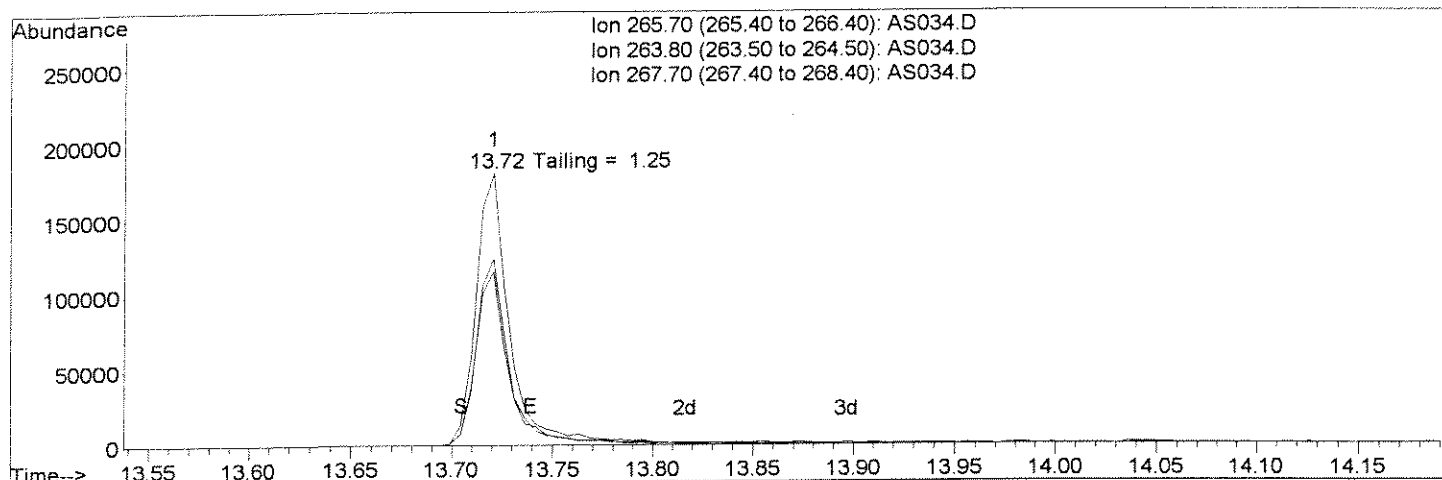
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS034.D
 Acq On : 2 Jul 2008 7:27 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 7:49 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



TIC: AS034.D

(5) Pentachlorophenol (TCM)

13.72min 6.24ppm

response 214092

Ion	Exp%	Act%
265.70	100	100
263.80	60.30	63.76
267.70	65.70	68.58
0.00	0.00	0.00

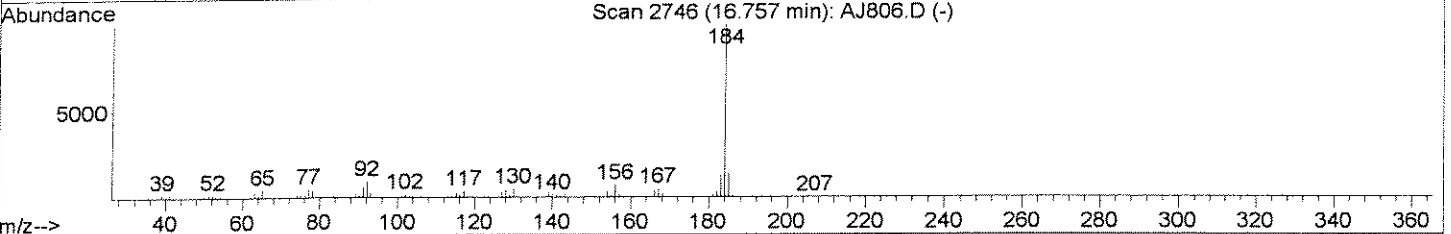
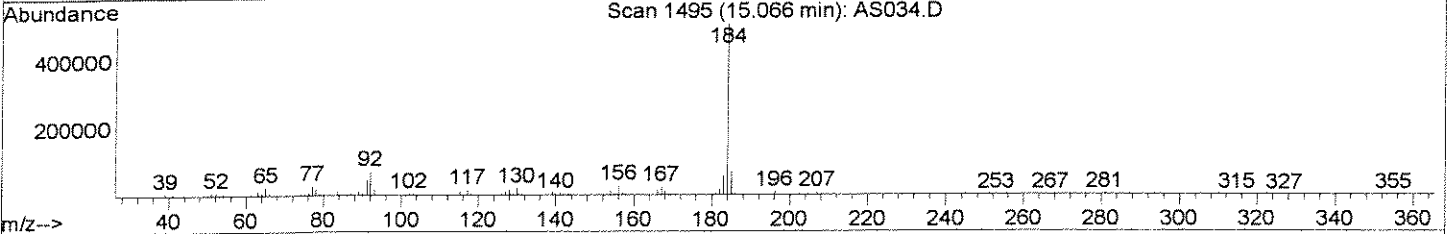
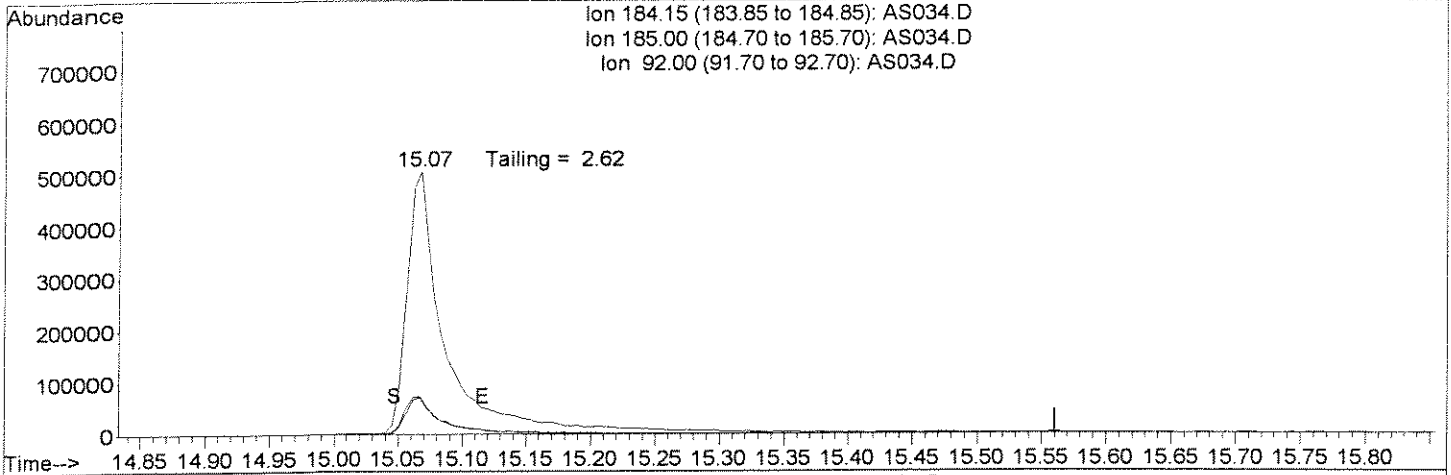
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS034.D
 Acq On : 2 Jul 2008 7:27 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 7:49 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



TIC: AS034.D

(8) Benzidine (T)

15.07min 9.63ppm

response 1024236

Ion	Exp%	Act%
184.15	100	100
185.00	14.00	14.01
92.00	15.40	14.26
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070308\AS060.D
 Acq On : 3 Jul 2008 10:55 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jul 03 11:17:06 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: TUNEC.RES

Quant Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Initial Calibration
 DataAcq Meth : TUNEC

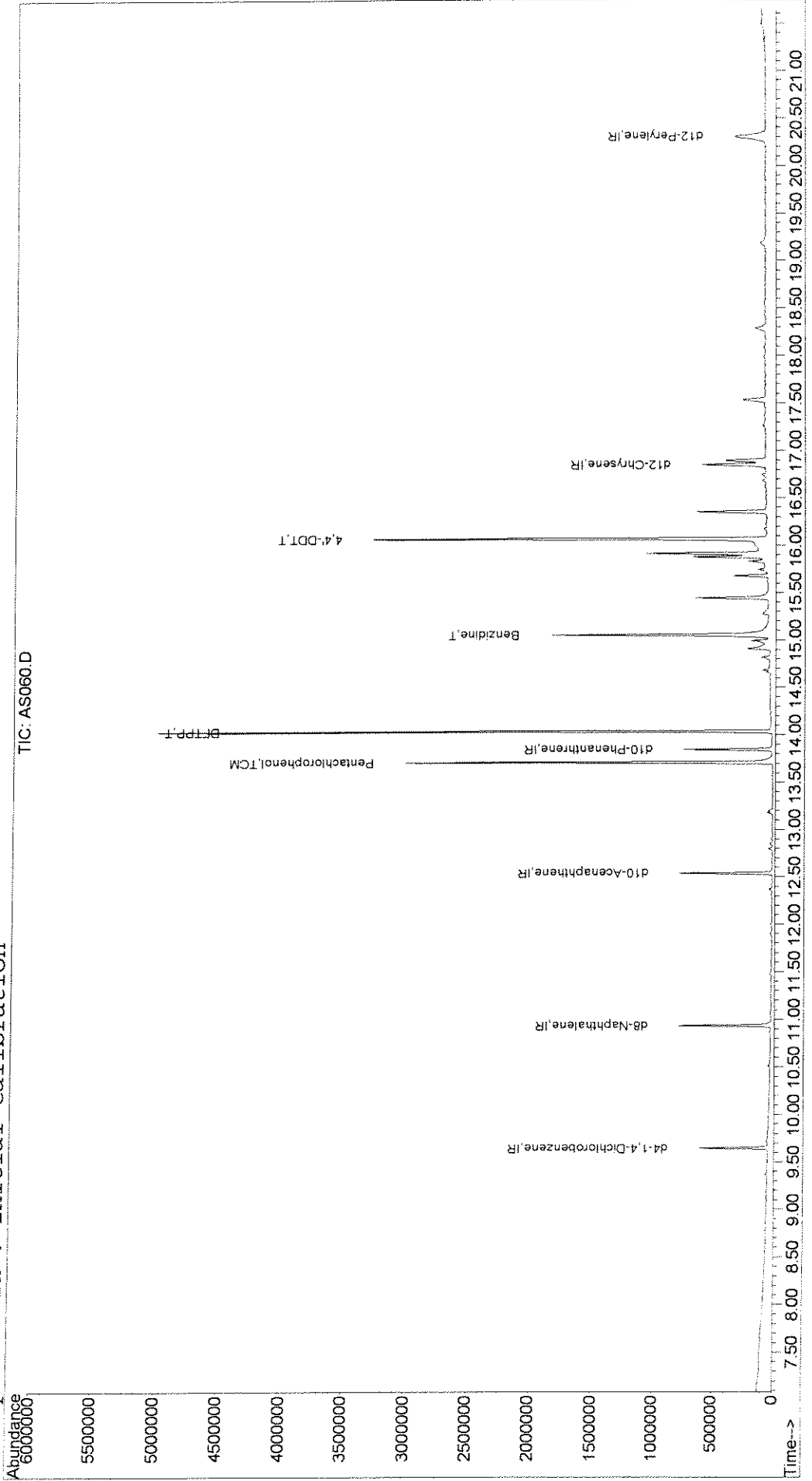
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	9.64	152	77848	1.00	ppm	-0.01
2) d8-Naphthalene	10.93	136	311973	1.00	ppm	-0.01
3) d10-Acenaphthene	12.54	164	161602	1.00	ppm	-0.01
4) d10-Phenanthrene	13.84	188	268427	1.00	ppm	-0.01
7) d12-Chrysene	16.85	240	265798	1.00	ppm	-0.02
12) d12-Perylene	20.30	264	208367	1.00	ppm	-0.04
						Qvalue
Target Compounds						
5) Pentachlorophenol	13.71	266	364761	10.85	ppm	98
6) DFTPP	14.04	198	434696	14.21	ppm	86
8) Benzidine	15.05	184	864333	9.25	ppm	98
9) 4,4'-DDE	0.00	246	0	N.D.		
10) 4,4'-DDD	0.00	235	0	N.D.	d	
11) 4,4'-DDT	16.07	235	710175	9.49	ppm	96



Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070308\AS060.D
Acq On : 3 Jul 2008 10:55 am Vial: 1
Sample : TUNE CHECK Operator: J.Wu
Misc : 20 ng DFTPP Inst : 5973C
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: Jul 3 11:20 2008 Quant Results File: TUNEC.RES

Method : J:\ACQDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
Title : TUNE CHECK
Last Update : Fri Jun 27 09:49:26 2008
Response via : Initial Calibration



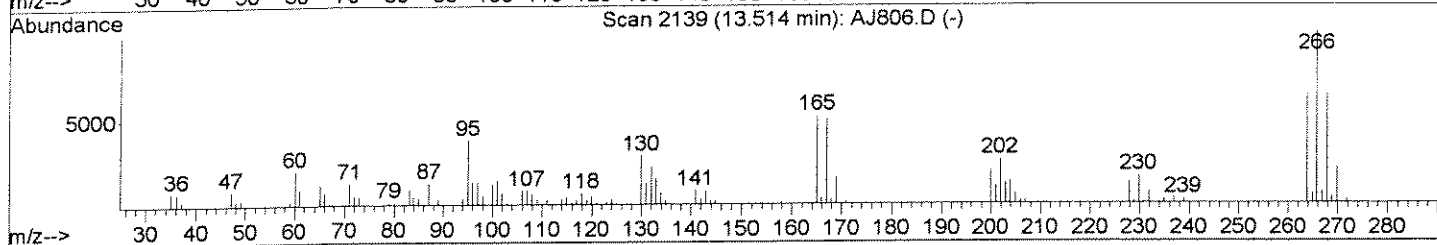
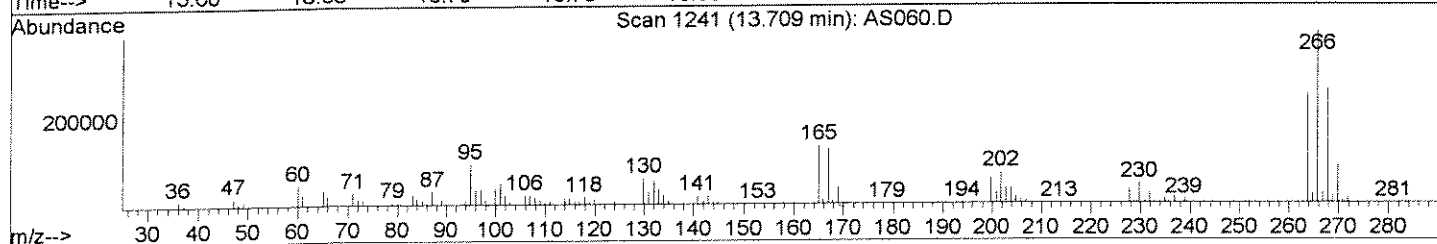
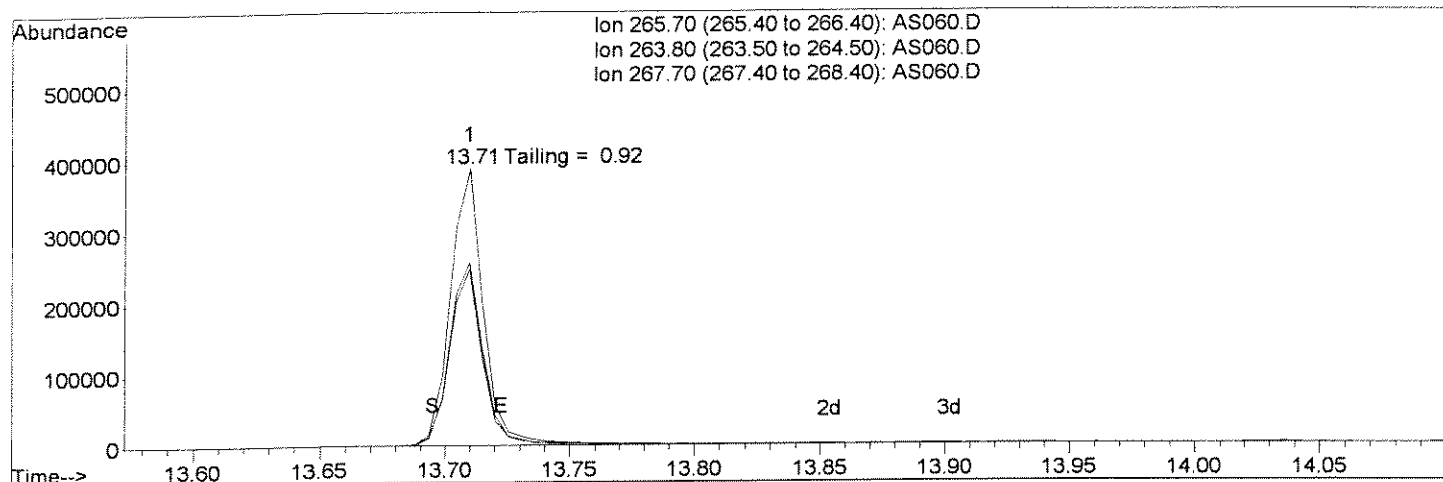
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070308\AS060.D
 Acq On : 3 Jul 2008 10:55 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 11:17 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



TIC: AS060.D

(5) Pentachlorophenol (TCM)

13.71min 10.85ppm

response 364761

Ion	Exp%	Act%
265.70	100	100
263.80	60.30	63.68
267.70	65.70	66.12
0.00	0.00	0.00

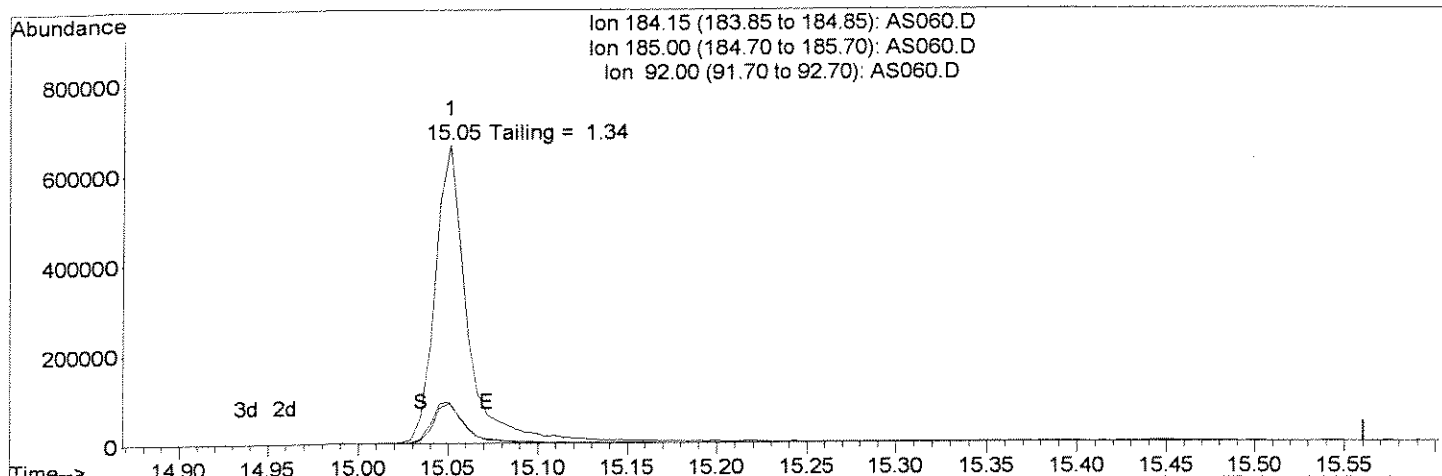
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070308\AS060.D
 Acq On : 3 Jul 2008 10:55 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 11:17 2008

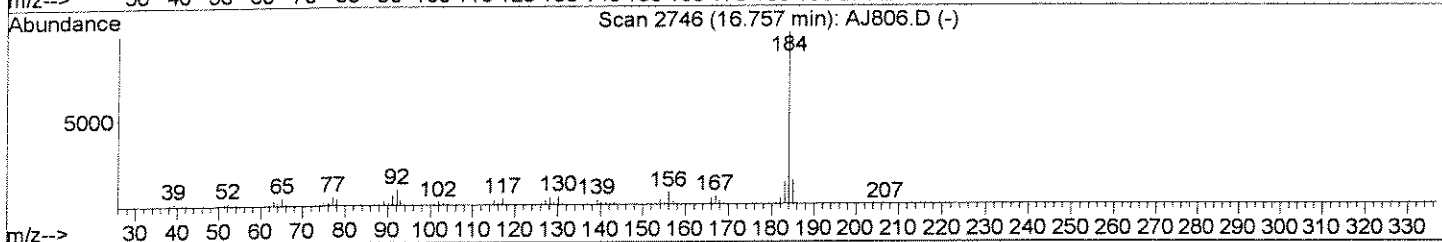
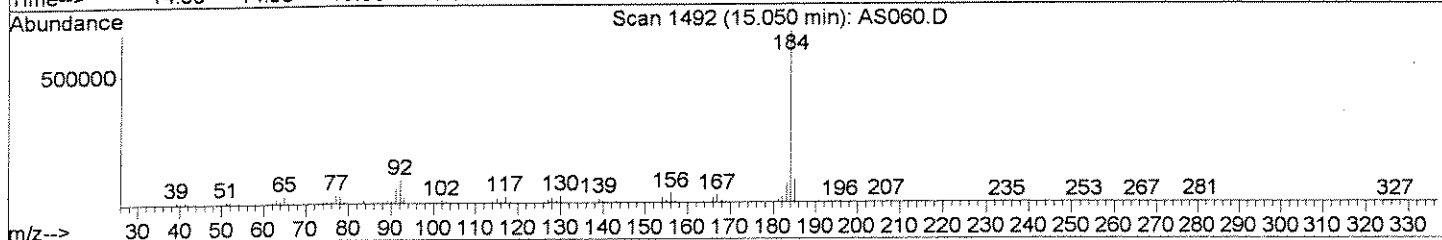
Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



Ion 184.15 (183.85 to 184.85): AS060.D
 Ion 185.00 (184.70 to 185.70): AS060.D
 Ion 92.00 (91.70 to 92.70): AS060.D



TIC: AS060.D

(8) Benzidine (T)

15.05min 9.25ppm

response 864333

Ion Exp% Act%

184.15 100 100

185.00 14.00 13.44

92.00 15.40 14.06

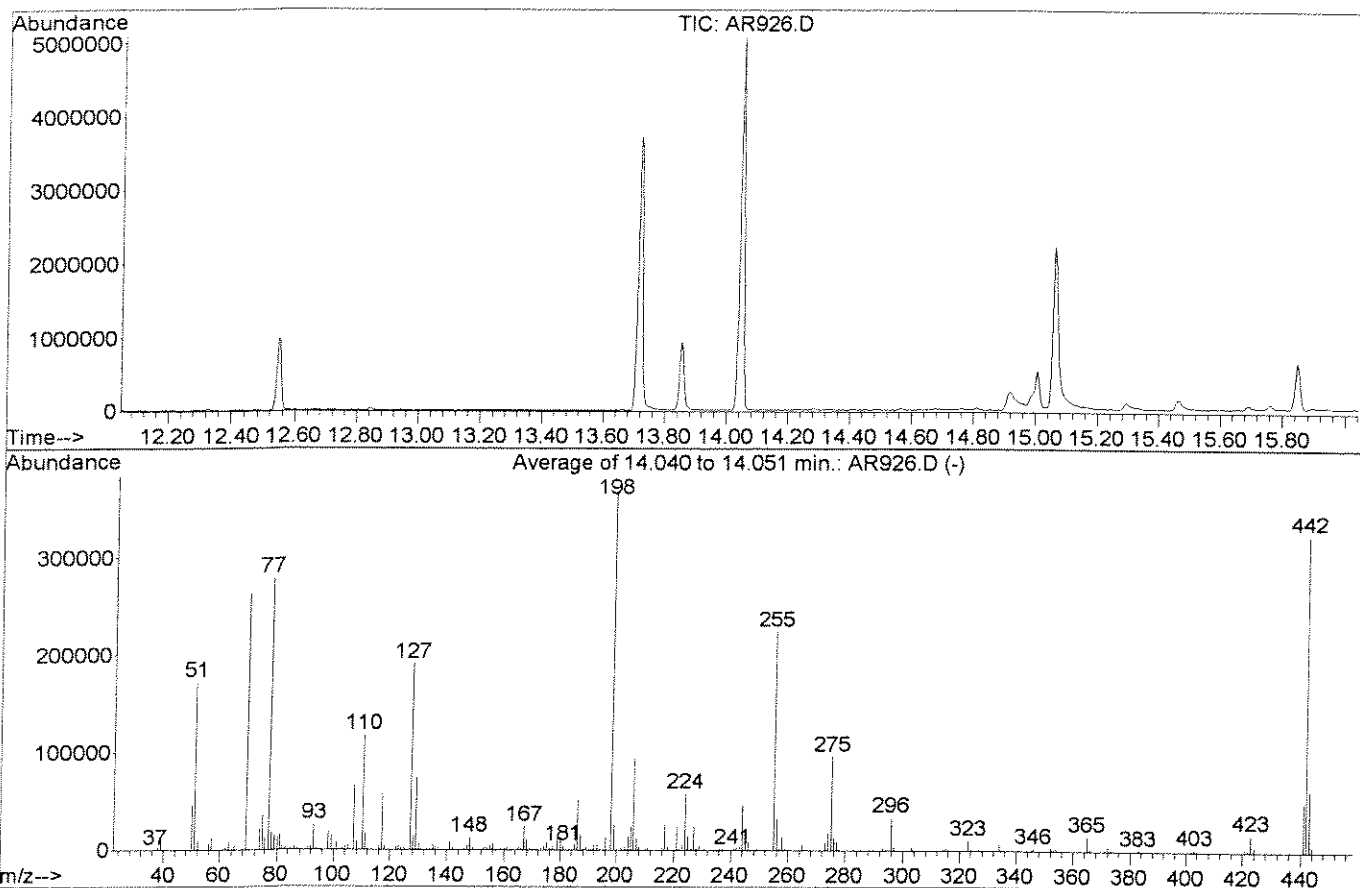
0.00 0.00 0.00

SEMIVOLATILE ORGANICS

RAW QC DATA

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\062608\AR926.D Vial: 1
 Acq On : 26 Jun 2008 4:24 pm Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK



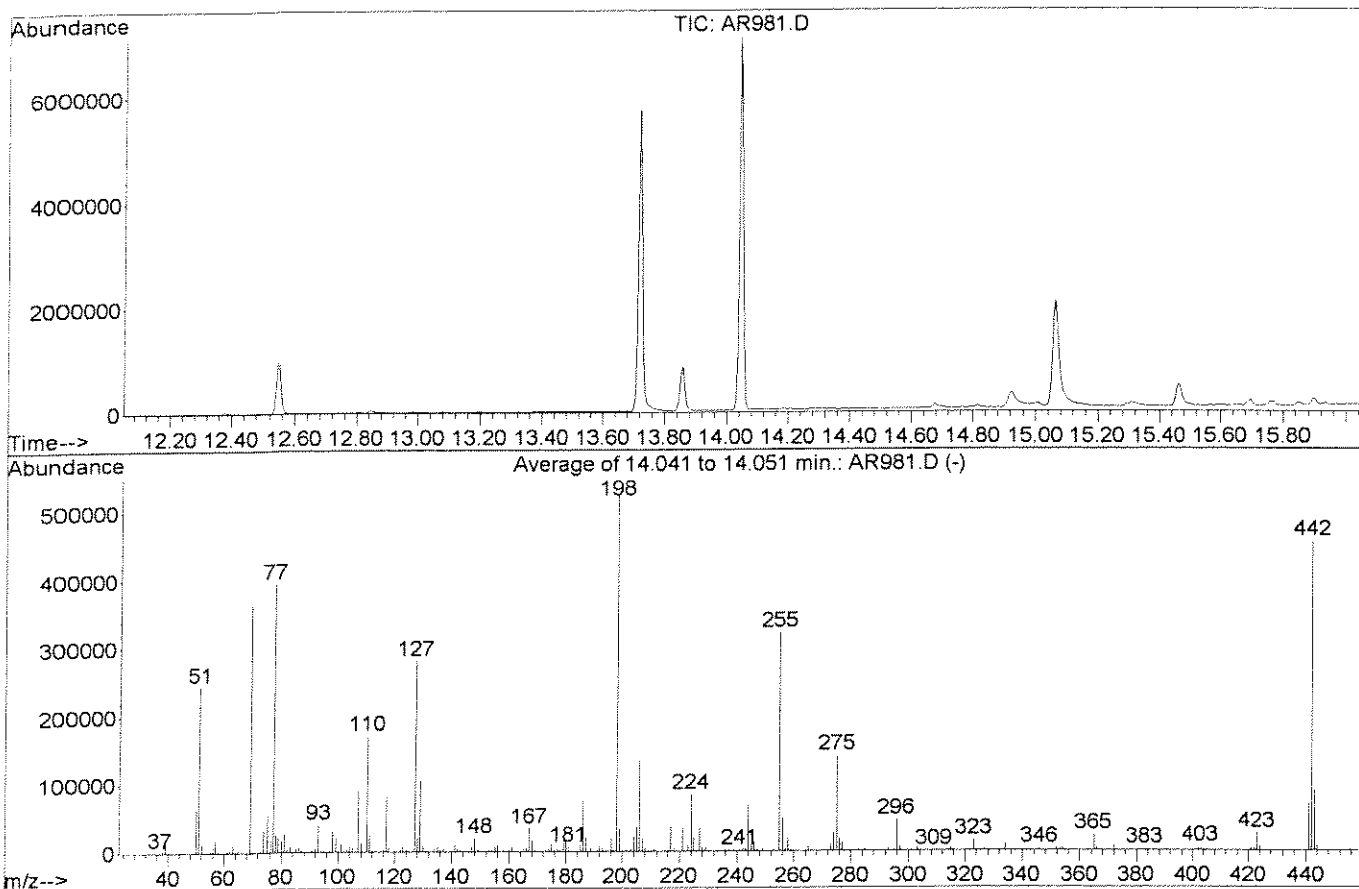
AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1296

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.1	172809	PASS
68	69	0.00	2	0.9	2305	PASS
69	198	0.00	100	71.7	263018	PASS
70	69	0.00	2	0.3	769	PASS
127	198	40	60	52.3	191842	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	366784	PASS
199	198	5	9	7.2	26242	PASS
275	198	10	30	26.4	96925	PASS
365	198	1	100	4.1	15178	PASS
441	443	0.01	100	77.8	49080	PASS
442	198	40	100	88.4	324160	PASS
443	442	17	23	19.5	63072	PASS

JW

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\063008\AR981.D Vial: 1
 Acq On : 30 Jun 2008 8:51 am Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK



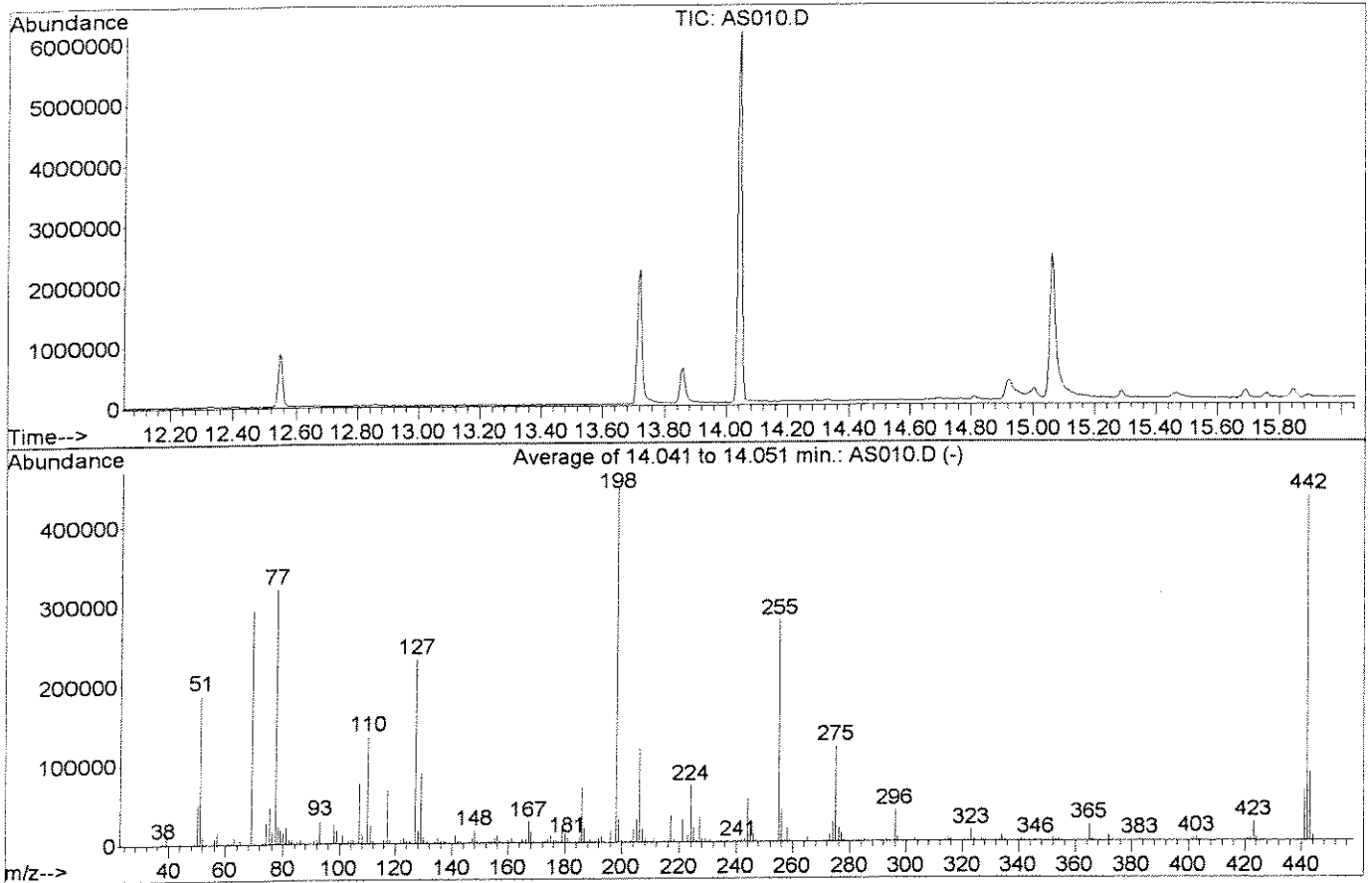
AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.5	245022	PASS
68	69	0.00	2	0.4	1595	PASS
69	198	0.00	100	69.3	364979	PASS
70	69	0.00	2	0.5	1966	PASS
127	198	40	60	53.5	281642	PASS
197	198	0.00	1	0.7	3798	PASS
198	198	100	100	100.0	526634	PASS
199	198	5	9	6.5	34122	PASS
275	198	10	30	26.6	140125	PASS
365	198	1	100	4.3	22736	PASS
441	443	0.01	100	77.7	68509	PASS
442	198	40	100	86.3	454506	PASS
443	442	17	23	19.4	88208	PASS

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\070108\AS010.D
 Acq On : 1 Jul 2008 12:22 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00



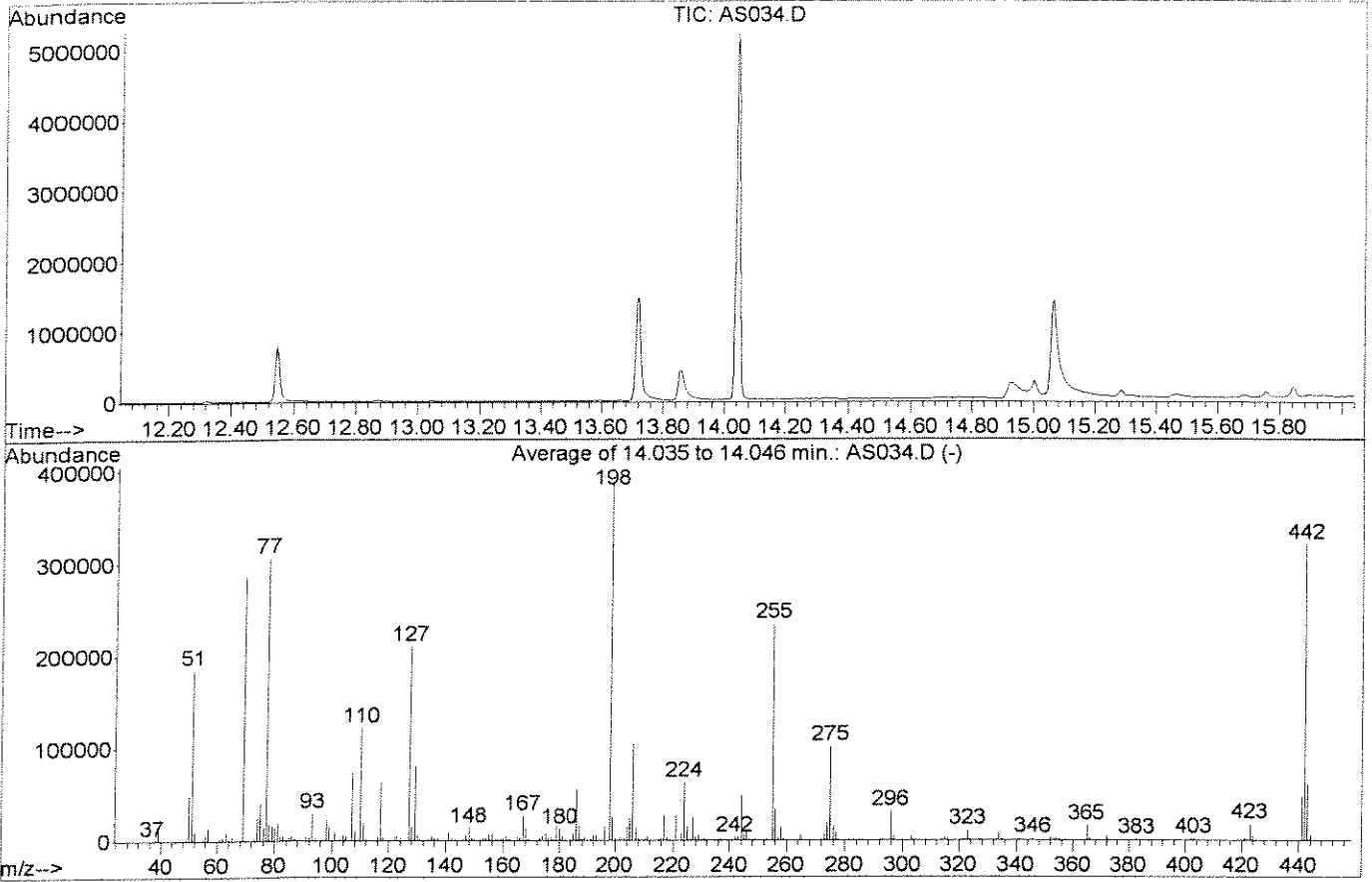
AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.1	188713	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	65.6	294035	PASS
70	69	0.00	2	0.6	1668	PASS
127	198	40	60	51.7	231658	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	447914	PASS
199	198	5	9	6.7	30137	PASS
275	198	10	30	26.8	119984	PASS
365	198	1	100	4.6	20613	PASS
441	443	0.01	100	73.8	64168	PASS
442	198	40	100	97.0	434410	PASS
443	442	17	23	20.0	86928	PASS

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\070208\AS034.D
 Acq On : 2 Jul 2008 7:27 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00



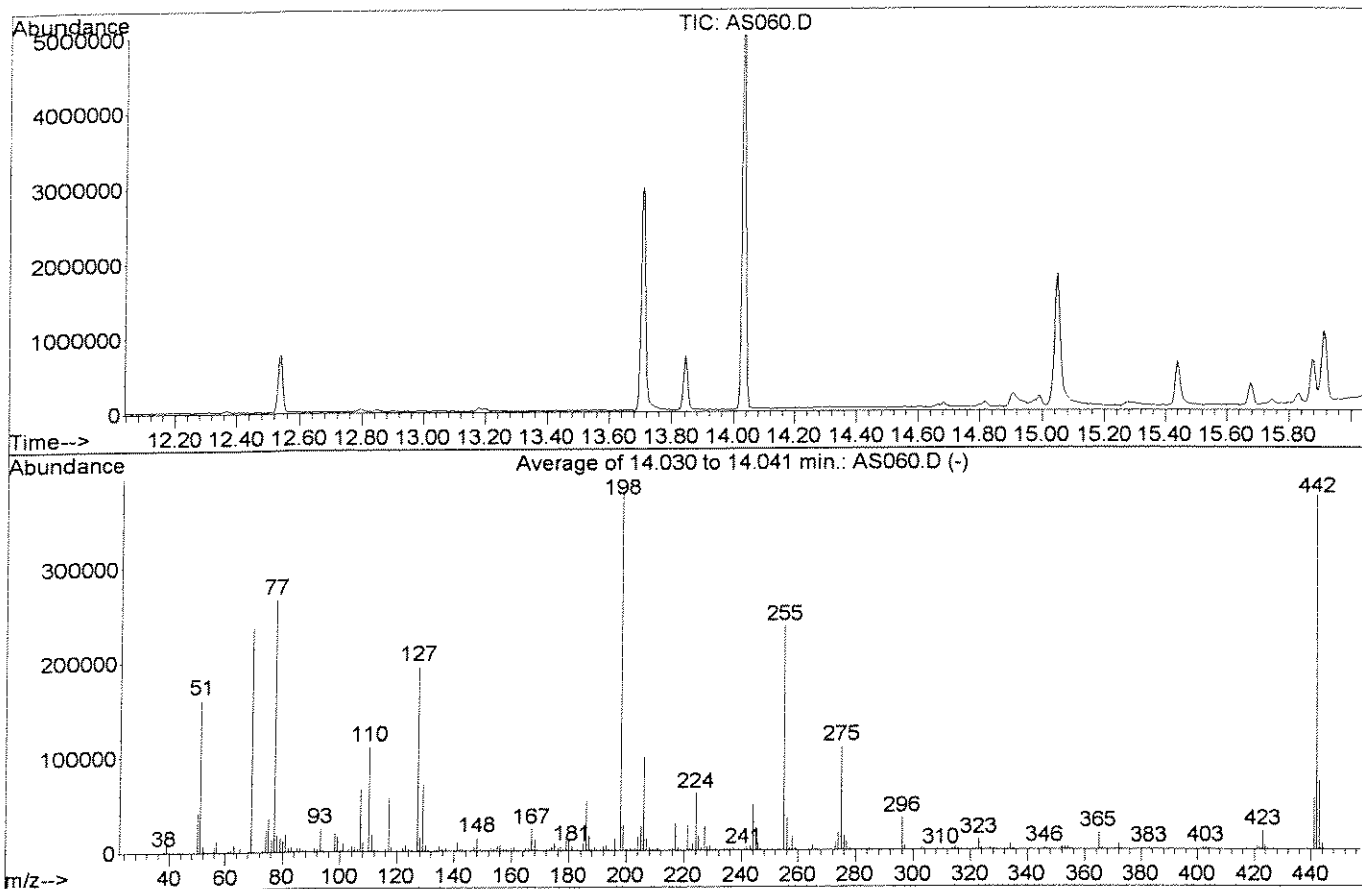
AutoFind: Scans 1302, 1303, 1304; Background Corrected with Scan 1297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.1	185860	PASS
68	69	0.00	2	0.8	2405	PASS
69	198	0.00	100	74.1	286421	PASS
70	69	0.00	2	0.5	1553	PASS
127	198	40	60	54.5	210570	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	386624	PASS
199	198	5	9	6.7	25846	PASS
275	198	10	30	26.3	101856	PASS
365	198	1	100	4.2	16122	PASS
441	443	0.01	100	77.3	47308	PASS
442	198	40	100	83.1	321224	PASS
443	442	17	23	19.0	61162	PASS

JW
 00974

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\070308\AS060.D Vial: 1
 Acq On : 3 Jul 2008 10:55 am Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK



AutoFind: Scans 1301, 1302, 1303; Background Corrected with Scan 1295

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.8	161413	PASS
68	69	0.00	2	0.9	2251	PASS
69	198	0.00	100	63.0	237962	PASS
70	69	0.00	2	0.6	1492	PASS
127	198	40	60	51.6	194984	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	377557	PASS
199	198	5	9	7.1	26689	PASS
275	198	10	30	29.0	109330	PASS
365	198	1	100	4.6	17422	PASS
441	443	0.01	100	76.6	55570	PASS
442	198	40	100	99.0	373824	PASS
443	442	17	23	19.4	72570	PASS

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/25/08

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1113598 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) PYRENE	0.20	0.20 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.20 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.20 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	5.0 U	UG/L
DI-N-BUTYL PHTHALATE	5.0	5.0 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.20 U	UG/L
DIETHYL PHTHALATE	5.0	5.0 U	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4-DIOXANE	2.0	2.0 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.0 U	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLORO BENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.20 U	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.20 U	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	97	%
NITROBENZENE-d5	(45 - 135 %)	80	%
2-FLUOROBIPHENYL	(45 - 135 %)	72	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR995.D
 Acq On : 30 Jun 2008 4:57 pm
 Sample : 1113598 1.0
 Misc : 06/26/2008 1.0 8270.LL BLK
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 17:24:16 2008

Vial: 14
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	83863	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	325505	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	155906	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	369590	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	328462	1.00	ppm	0.00
33) d12-Perylene	21.30	264	257317	1.00	ppm	-0.02
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	296933	1.59	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	79.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	402585	1.44	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	72.00%
28) SURR6,TERPHENYL-D14	16.25	244	539111	1.94	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	97.00%

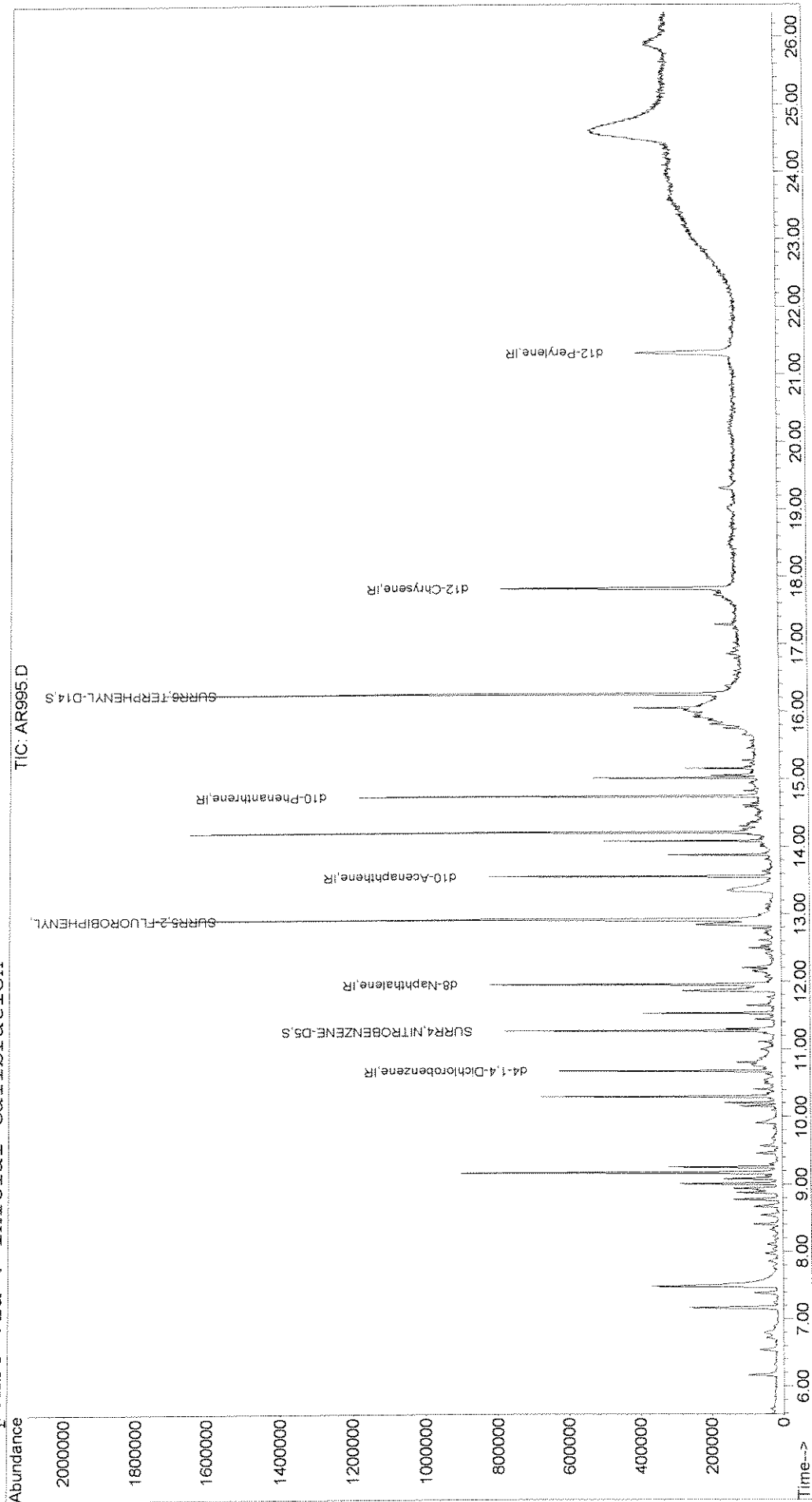
Target Compounds

Qvalue

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR995.D Vial: 14
Acq On : 30 Jun 2008 4:57 pm Operator: J.Wu
Sample : 1113598 1.0 Inst : 5973C
Misc : 06/26/2008 1.0 8270.LL BLK Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 1 8:38 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 09:31:03 2008
Response via : Initial Calibration



00978

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/25/08

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1113917 **Sample Matrix:** WATER
Date Received: Submission #: **Analytical Run** 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/30/08		
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) ANTHRACENE	0.20	0.20 U	UG/L
BENZO (A) PYRENE	0.20	0.20 U	UG/L
BENZO (B) FLUORANTHENE	0.20	0.20 U	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.20 U	UG/L
BENZO (K) FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	0.39 J	UG/L
DI-N-BUTYLPHthalate	5.0	1.7 J	UG/L
INDENO (1, 2, 3 -CD) PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHthalate	5.0	0.13 J	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4-DIOXANE	2.0	2.0 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	0.25 J	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLORO BENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.040 J	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.20 U	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	96	%
NITROBENZENE-d5	(45 - 135 %)	76	%
2-FLUOROBIPHENYL	(45 - 135 %)	66	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS022.D
 Acq On : 1 Jul 2008 7:22 pm
 Sample : 1113917 1.0
 Misc : 06/30/2008 1.0 8270.LL BLK
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 19:49:04 2008

Vial: 12
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	87336	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	327423	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	150776	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	366186	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	306574	1.00	ppm	0.00
33) d12-Perylene	21.31	264	221594	1.00	ppm	-0.01

System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	284084	1.51	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	75.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	346124	1.31	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	65.50%
28) SURR6,TERPHENYL-D14	16.25	244	495216	1.91	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	95.50%

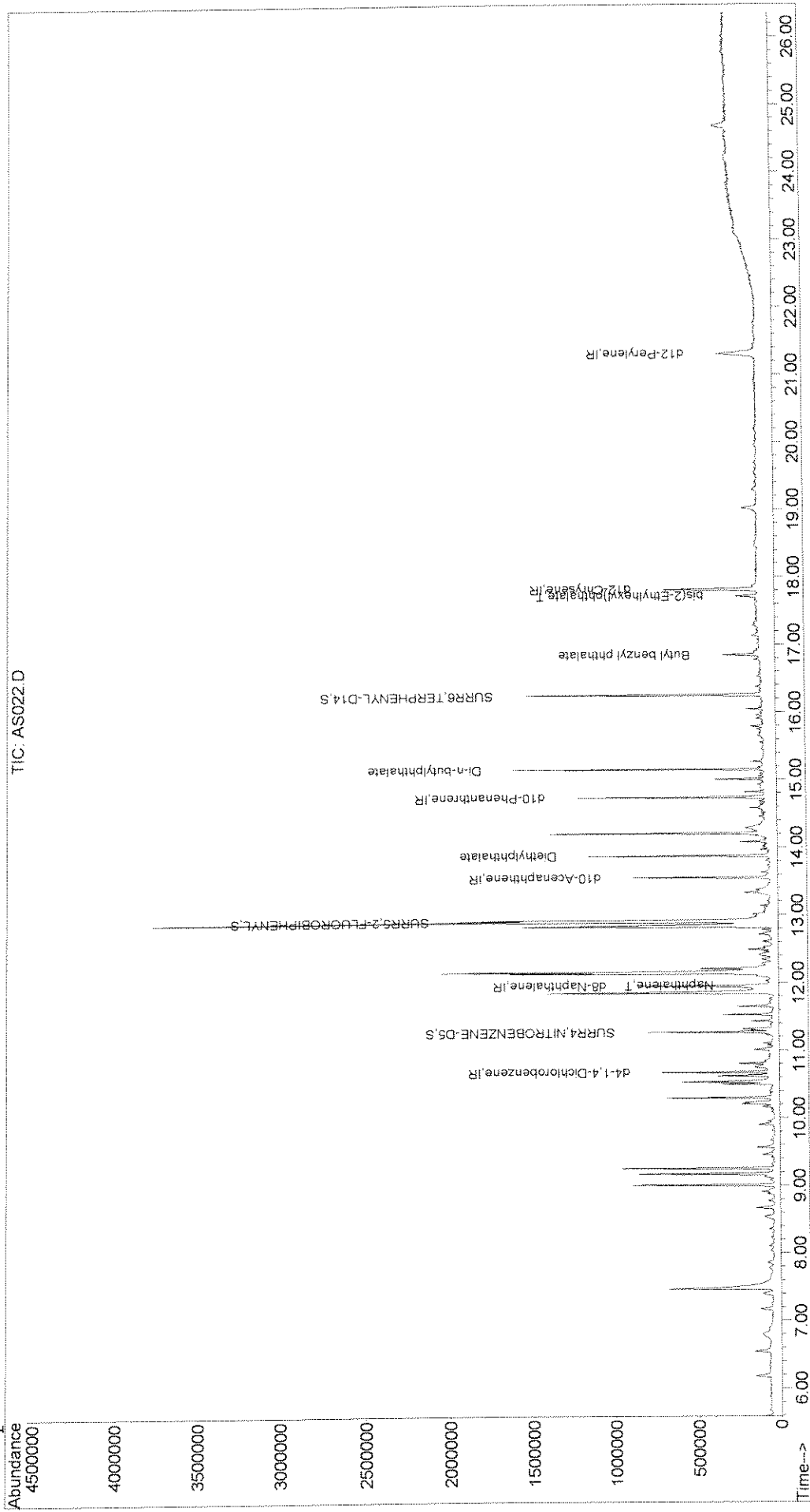
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Naphthalene	11.97	128	14094	0.04	ppm	96
17) Diethylphthalate	13.88	149	31761	0.13	ppm	95
24) Di-n-butylphthalate	15.15	149	683538	1.74	ppm	99
29) Butyl benzyl phthalate	16.85	149	60032	0.39	ppm	94
30) bis(2-Ethylhexyl)phthalate	17.72	149	56240	0.25	ppm	99

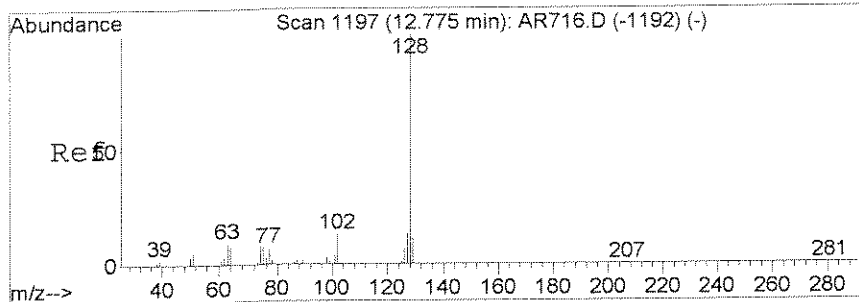
JW
 00980

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS022.D Vial: 12
 Acq On : 1 Jul 2008 7:22 pm Operator: J.Wu
 Sample : 1113917 1.0 Inst : 5973C
 Misc : 06/30/2008 1.0 8270.LL BLK Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 6:59 2008 Quant Results File: LVI0626.RES

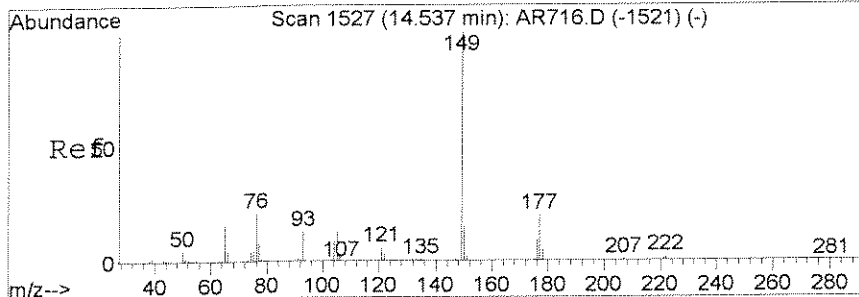
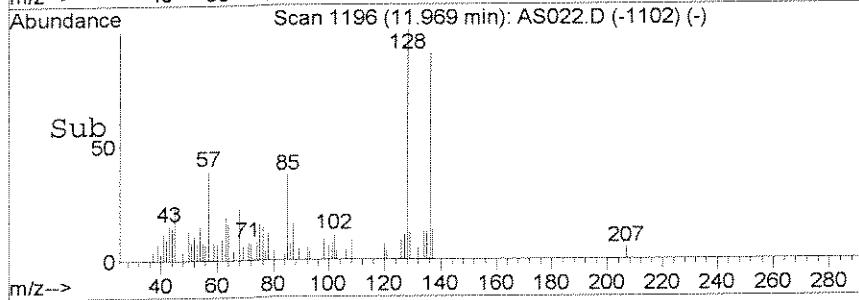
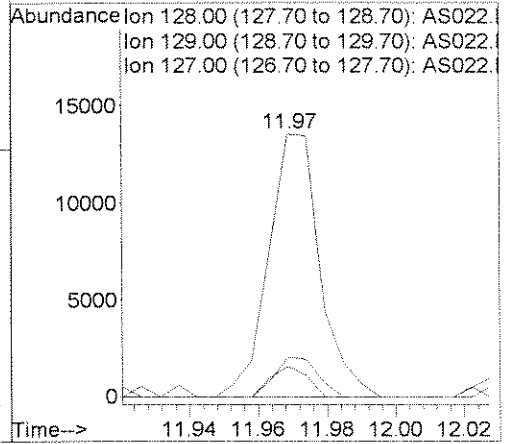
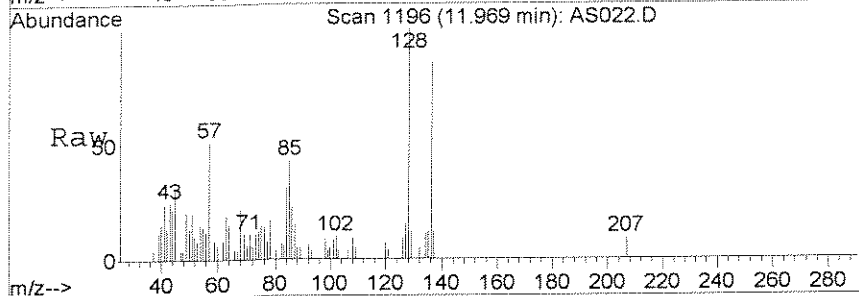
Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration





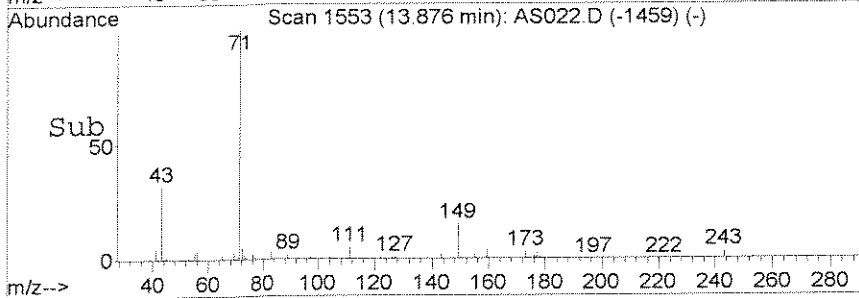
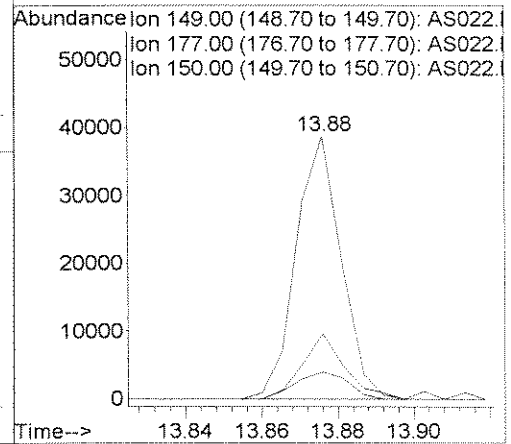
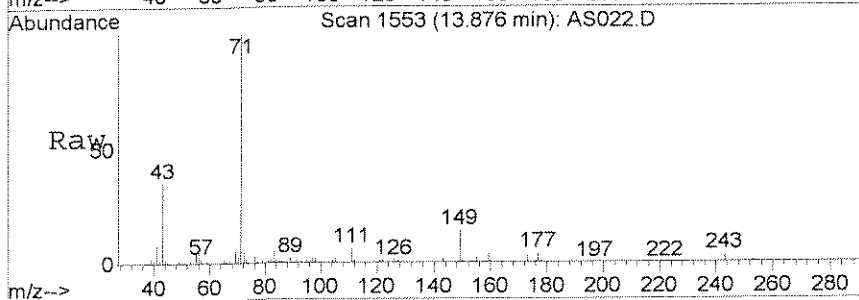
#7
 Naphthalene
 Concen: 0.04 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS022.D
 Acq: 1 Jul 2008 7:22 pm

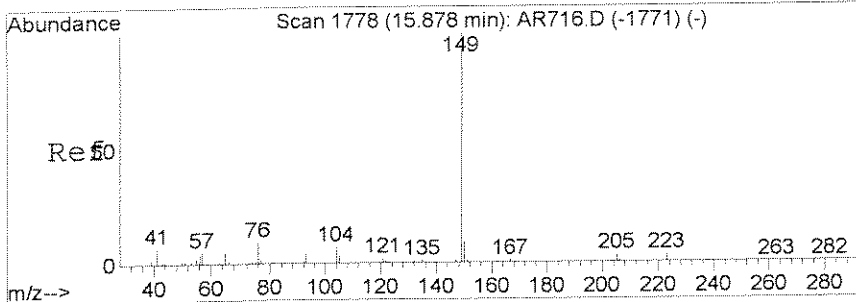
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	0.0	31.0
127	15.1	0.0	32.4



#17
 Diethylphthalate
 Concen: 0.13 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AS022.D
 Acq: 1 Jul 2008 7:22 pm

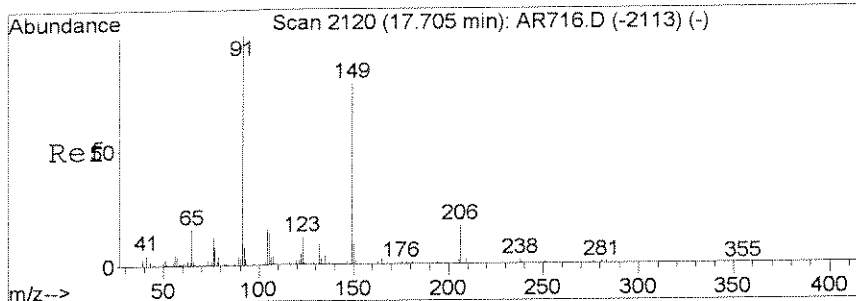
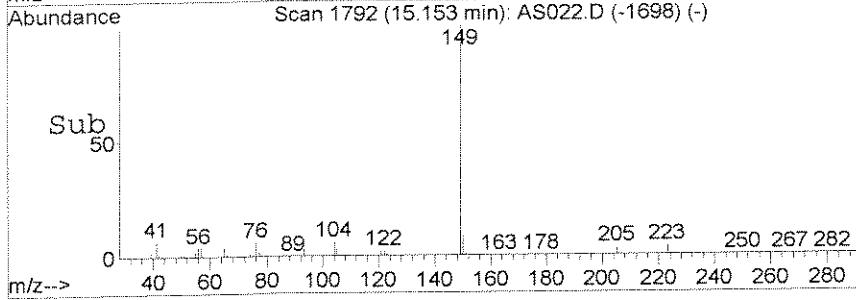
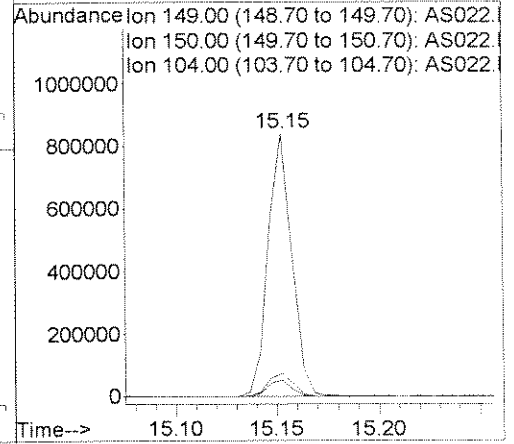
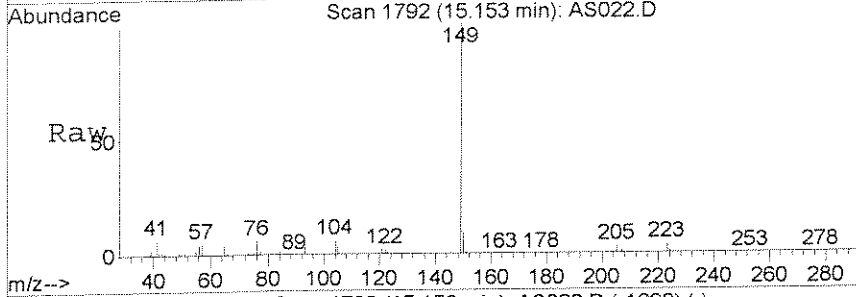
Tgt Ion	Ratio	Lower	Upper
149	100		
177	24.8	15.3	28.3
150	10.3	8.3	15.3





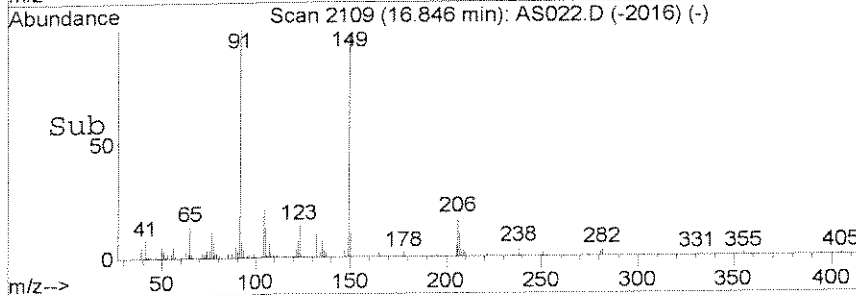
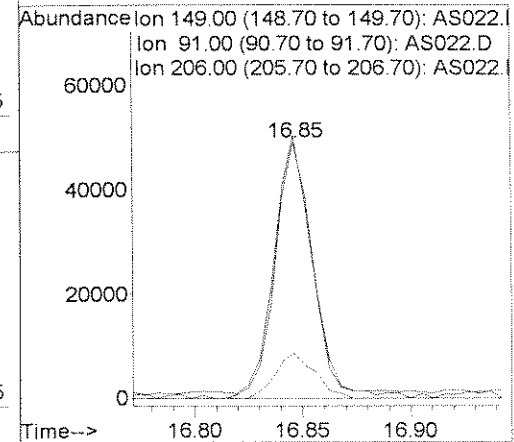
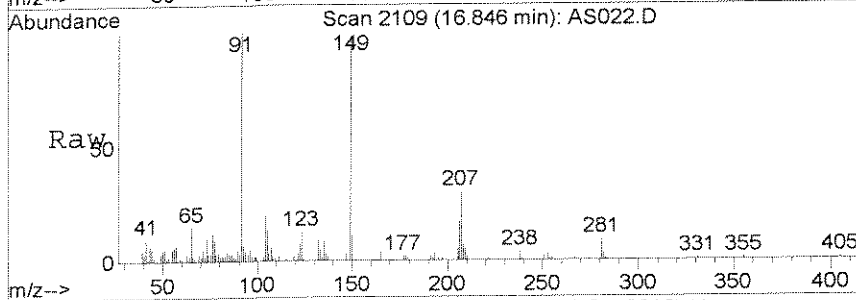
#24
 Di-n-butylphthalate
 Concen: 1.74 ppm
 RT: 15.15 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: AS022.D
 Acq: 1 Jul 2008 7:22 pm

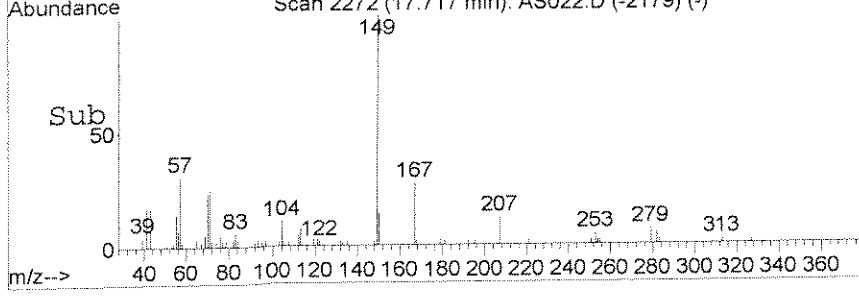
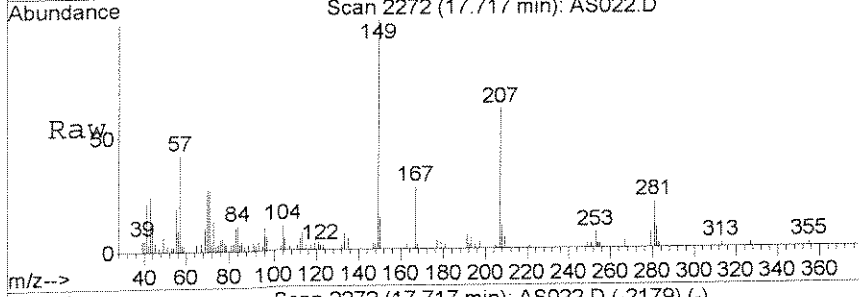
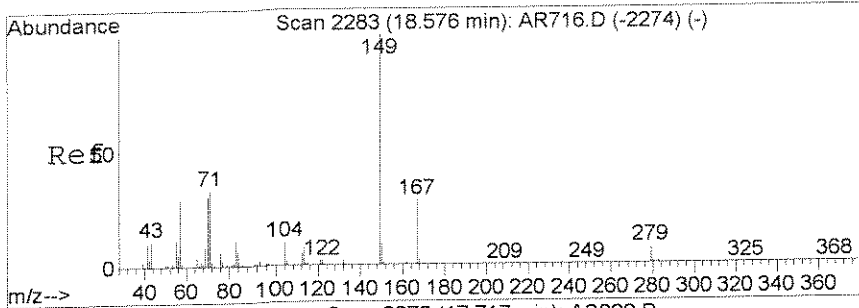
Tgt Ion	Ratio	Lower	Upper
149	100		
150	8.8	6.4	12.0
104	6.2	4.4	8.2



#29
 Butyl benzyl phthalate
 Concen: 0.39 ppm
 RT: 16.85 min Scan# 2109
 Delta R.T. -0.00 min
 Lab File: AS022.D
 Acq: 1 Jul 2008 7:22 pm

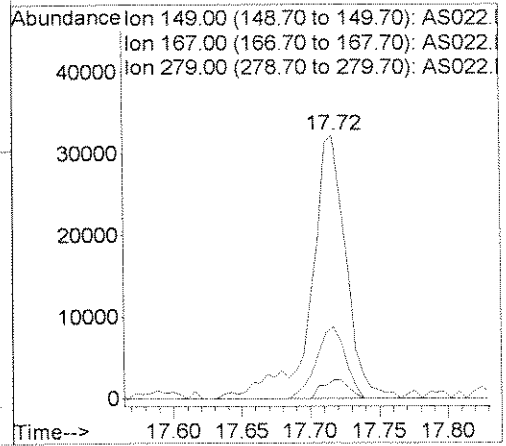
Tgt Ion	Ratio	Lower	Upper
149	100		
91	100.1	65.7	122.1
206	17.6	12.7	23.5





#30
 bis(2-Ethylhexyl) phthalate
 Concen: 0.25 ppm
 RT: 17.72 min Scan# 2272
 Delta R.T. -0.01 min
 Lab File: AS022.D
 Acq: 1 Jul 2008 7:22 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.3	22.5	33.7
279	6.9	5.5	8.3



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 09/02/08

Project Reference:

Client Sample ID : BLANK SPIKE

Date Sampled : Order #: 1113599 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	0.47	UG/L
ACENAPHTHYLENE	0.20	0.47	UG/L
ANTHRACENE	0.20	0.40	UG/L
BENZO (A) ANTHRACENE	0.20	0.43	UG/L
BENZO (A) PYRENE	0.20	0.36	UG/L
BENZO (B) FLUORANTHENE	0.20	0.41	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.44	UG/L
BENZO (K) FLUORANTHENE	0.20	0.41	UG/L
BUTYL BENZYL PHTHALATE	5.0	0.51 J	UG/L
DI-N-BUTYLPHTHALATE	5.0	0.67 J	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.51	UG/L
CHRYSENE	0.20	0.40	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.54	UG/L
DIETHYLPHTHALATE	5.0	0.45 J	UG/L
DIMETHYL PHTHALATE	5.0	0.46 J	UG/L
1, 4-DIOXANE	2.0	2.0	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.0	UG/L
FLUORANTHENE	0.20	0.45	UG/L
FLUORENE	0.20	0.53	UG/L
HEXACHLOROBENZENE	0.20	0.38	UG/L
2-METHYLNAPHTHALENE	0.20	0.33	UG/L
NAPHTHALENE	0.20	0.40	UG/L
NITROBENZENE	0.20	0.38	UG/L
OCTACHLOROSTYRENE	0.20	0.43	UG/L
DI-N-OCTYL PHTHALATE	5.0	0.70 J	UG/L
PHENANTHRENE	0.20	0.43	UG/L
PYRENE	0.20	0.47	UG/L
PYRIDINE	2.0	0.090 J	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	97	%
NITROBENZENE-d5	(45 - 135 %)	78	%
2-FLUOROBIPHENYL	(45 - 135 %)	71	%

000985

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR996.D
 Acq On : 30 Jun 2008 5:32 pm
 Sample : 1113599 1.0
 Misc : 06/26/2008 1.0 8270.LL LCS
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 17:59:05 2008

Vial: 15
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	96125	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	339892	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	161695	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	378235	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	334131	1.00	ppm	0.00
33) d12-Perylene	21.31	264	268817	1.00	ppm	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	304186	1.56	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	78.00%		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	407291	1.41	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	70.50%		
28) SURR6,TERPHENYL-D14	16.25	244	545503	1.93	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	96.50%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.83	88	108961	1.98	ppm	92
3) Pyridine	6.79	79	16852	0.09	ppm	79
6) Nitrobenzene	11.29	77	76442	0.38	ppm	99
7) Naphthalene	11.97	128	141469	0.40	ppm	99
8) 2-Methylnaphthalene	12.59	142	77996	0.33	ppm	96
9) 1-Methylnaphthalene	12.70	142	76659	0.34	ppm	99
12) Acenaphthylene	13.42	152	111564	0.47	ppm	95
13) Dimethyl phthalate	13.28	163	85487	0.46	ppm	97
14) Acenaphthene	13.58	153	74481	0.47	ppm	98
15) Dibenzofuran	13.72	168	104942	0.46	ppm	99
16) Fluorene	14.00	166	104931	0.53	ppm	93
17) Diethylphthalate	13.88	149	120053	0.45	ppm	95
19) Hexachlorobenzene	14.49	284	37707	0.38	ppm	95
20) Phenanthrene	14.76	178	166747	0.43	ppm	98
21) Anthracene	14.80	178	147653	0.40	ppm	98
22) Carbazole	14.91	167	141925	0.52	ppm	98
23) Octachlorostyrene	15.70	380	9927	0.43	ppm	83
24) Di-n-butylphthalate	15.15	149	272994	0.67	ppm	99
25) Fluoranthene	15.88	202	176098	0.45	ppm	99
27) Pyrene	16.15	202	182162	0.47	ppm	100
29) Butylbenzylphthalate	16.85	149	85375	0.51	ppm	87
30) bis(2-Ethylhexyl)phthalate	17.72	149	1207220	4.99	ppm	96
31) Benzo(a)anthracene	17.78	228	157678	0.43	ppm	98
32) Chrysene	17.86	228	149336	0.40	ppm	99
34) Di-n-octylphthalate	18.96	149	164167	0.70	ppm	99
35) Benzo(b)Fluoranthene	20.17	252	157630	0.41	ppm	94

(#) = qualifier out of range (m) = manual integration
 AR996.D LVI0626.M Tue Jul 01 08:44:44 2008

JWV

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR996.D Vial: 15
 Acq On : 30 Jun 2008 5:32 pm Operator: J.Wu
 Sample : 1113599 1.0 Inst : 5973C
 Misc : 06/26/2008 1.0 8270.LL LCS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 17:59:05 2008 Quant Results File: LVI0626.RES

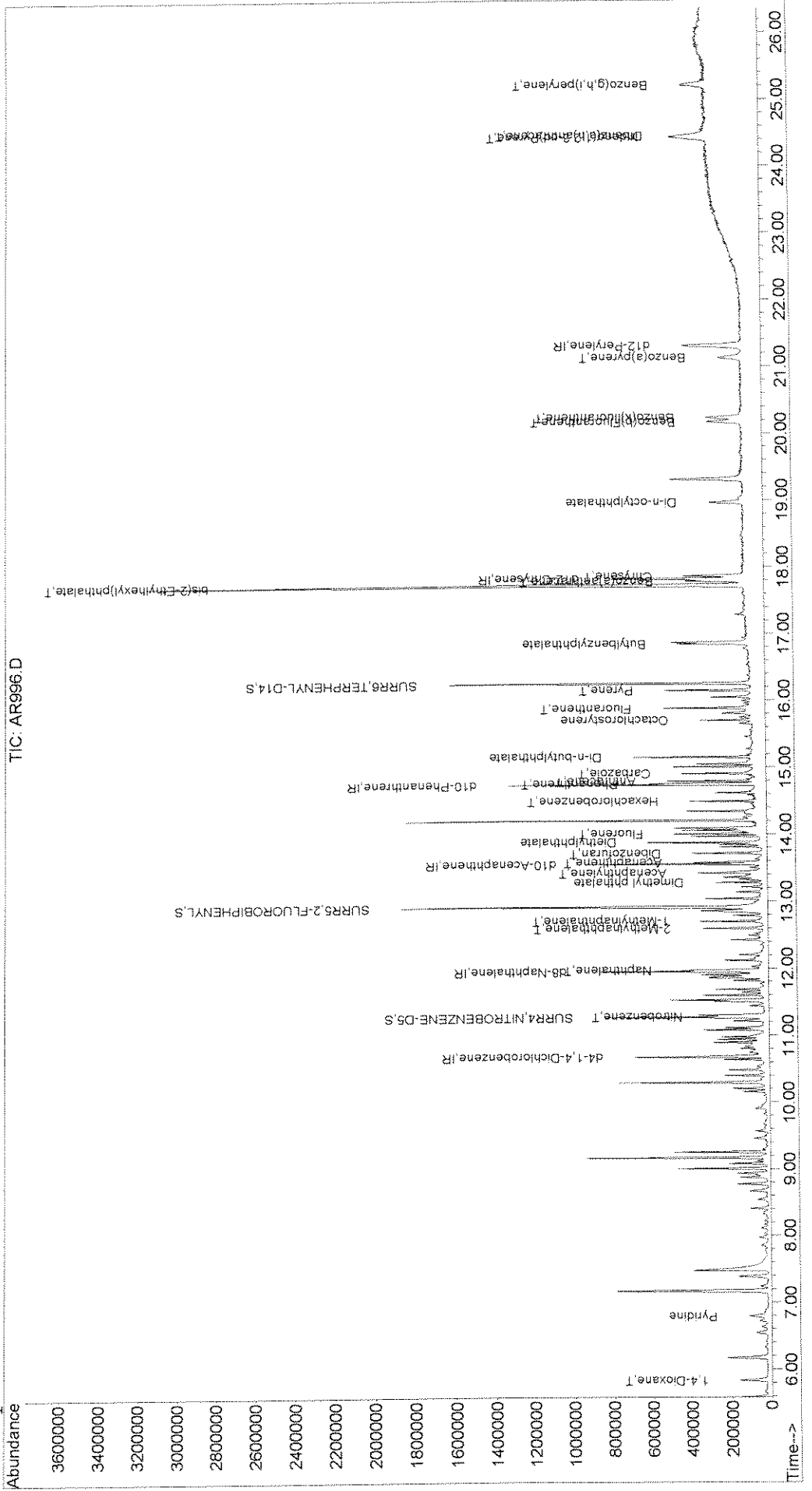
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	151445	0.41	ppm	98
37) Benzo(a)pyrene	21.13	252	115735	0.36	ppm	91
38) Indeno(1,2,3-cd)Pyrene	24.42	276	158123	0.51	ppm	97
39) Dibenz(a,h)anthracene	24.45	278	131397	0.54	ppm	97
40) Benzo(g,h,i)perylene	25.21	276	142181	0.44	ppm	98

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR996.D Vial: 15
 Acq On : 30 Jun 2008 5:32 pm Operator: J.Wu
 Sample : 1113599 1.0 Inst : 5973C
 Misc : 06/26/2008 1.0 8270.LL LCS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 17:59 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 09/02/08

Project Reference:
 Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : Order #: 1113600 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	0.44	UG/L
ACENAPHTHYLENE	0.20	0.46	UG/L
ANTHRACENE	0.20	0.37	UG/L
BENZO (A) ANTHRACENE	0.20	0.41	UG/L
BENZO (A) PYRENE	0.20	0.34	UG/L
BENZO (B) FLUORANTHENE	0.20	0.38	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.43	UG/L
BENZO (K) FLUORANTHENE	0.20	0.38	UG/L
BUTYL BENZYL PHTHALATE	5.0	0.48 J	UG/L
DI-N-BUTYLPHTHALATE	5.0	0.64 J	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.49	UG/L
CHRYSENE	0.20	0.39	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.52	UG/L
DIETHYLPHTHALATE	5.0	0.42 J	UG/L
DIMETHYL PHTHALATE	5.0	0.44 J	UG/L
1, 4-DIOXANE	2.0	2.0	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.7 J	UG/L
FLUORANTHENE	0.20	0.41	UG/L
FLUORENE	0.20	0.52	UG/L
HEXACHLOROBENZENE	0.20	0.33	UG/L
2-METHYLNAPHTHALENE	0.20	0.30	UG/L
NAPHTHALENE	0.20	0.38	UG/L
NITROBENZENE	0.20	0.35	UG/L
OCTACHLOROSTYRENE	0.20	0.37	UG/L
DI-N-OCTYL PHTHALATE	5.0	0.67 J	UG/L
PHENANTHRENE	0.20	0.40	UG/L
PYRENE	0.20	0.43	UG/L
PYRIDINE	2.0	0.040 J	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(45 - 135 %)	94	%
NITROBENZENE-d5	(45 - 135 %)	72	%
2-FLUOROBIPHENYL	(45 - 135 %)	67	%

000939

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR997.D
 Acq On : 30 Jun 2008 6:07 pm
 Sample : 1113600 1.0
 Misc : 06/26/2008 1.0 8270.LL LCSD
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 18:33:53 2008

Vial: 16
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	97193	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	352531	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	165186	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	403785	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	347066	1.00	ppm	0.00
33) d12-Perylene	21.31	264	280967	1.00	ppm	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	290784	1.44	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	72.00%		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	389530	1.34	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	67.00%		
28) SURR6,TERPHENYL-D14	16.25	244	548149	1.87	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	93.50%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	111746	2.00	ppm	95
3) Pyridine	6.83	79	7597	0.04	ppm	64
6) Nitrobenzene	11.29	77	73225	0.35	ppm	93
7) Naphthalene	11.97	128	136468	0.38	ppm	99
8) 2-Methylnaphthalene	12.59	142	73164	0.30	ppm	90
9) 1-Methylnaphthalene	12.70	142	72664	0.31	ppm	96
12) Acenaphthylene	13.42	152	109941	0.46	ppm	96
13) Dimethyl phthalate	13.28	163	80157	0.44	ppm	97
14) Acenaphthene	13.58	153	67899	0.44	ppm	96
15) Dibenzofuran	13.72	168	94717	0.43	ppm	98
16) Fluorene	14.00	166	105390	0.52	ppm	95
17) Diethylphthalate	13.88	149	114738	0.42	ppm	99
19) Hexachlorobenzene	14.49	284	34978	0.33	ppm	93
20) Phenanthrene	14.76	178	164363	0.40	ppm	98
21) Anthracene	14.80	178	148178	0.37	ppm	95
22) Carbazole	14.90	167	138684	0.47	ppm	97
23) Octachlorostyrene	15.70	380	9024	0.37	ppm	88
24) Di-n-butylphthalate	15.15	149	275757	0.64	ppm	99
25) Fluoranthene	15.88	202	171690	0.41	ppm	98
27) Pyrene	16.15	202	173464	0.43	ppm	97
29) Butylbenzylphthalate	16.85	149	83403	0.48	ppm	97
30) bis(2-Ethylhexyl)phthalate	17.72	149	1191101	4.74	ppm	98
31) Benzo(a)anthracene	17.78	228	154770	0.41	ppm	99
32) Chrysene	17.86	228	149763	0.39	ppm	97
34) Di-n-octylphthalate	18.96	149	156689	0.67	ppm	97
35) Benzo(b)Fluoranthene	20.17	252	151110	0.38	ppm	98

(#) = qualifier out of range (m) = manual integration
 AR997.D LVI0626.M Tue Jul 01 08:54:50 2008

JW V

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR997.D Vial: 16
 Acq On : 30 Jun 2008 6:07 pm Operator: J.Wu
 Sample : 1113600 1.0 Inst : 5973C
 Misc : 06/26/2008 1.0 8270.LL LCSD Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 18:33:53 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

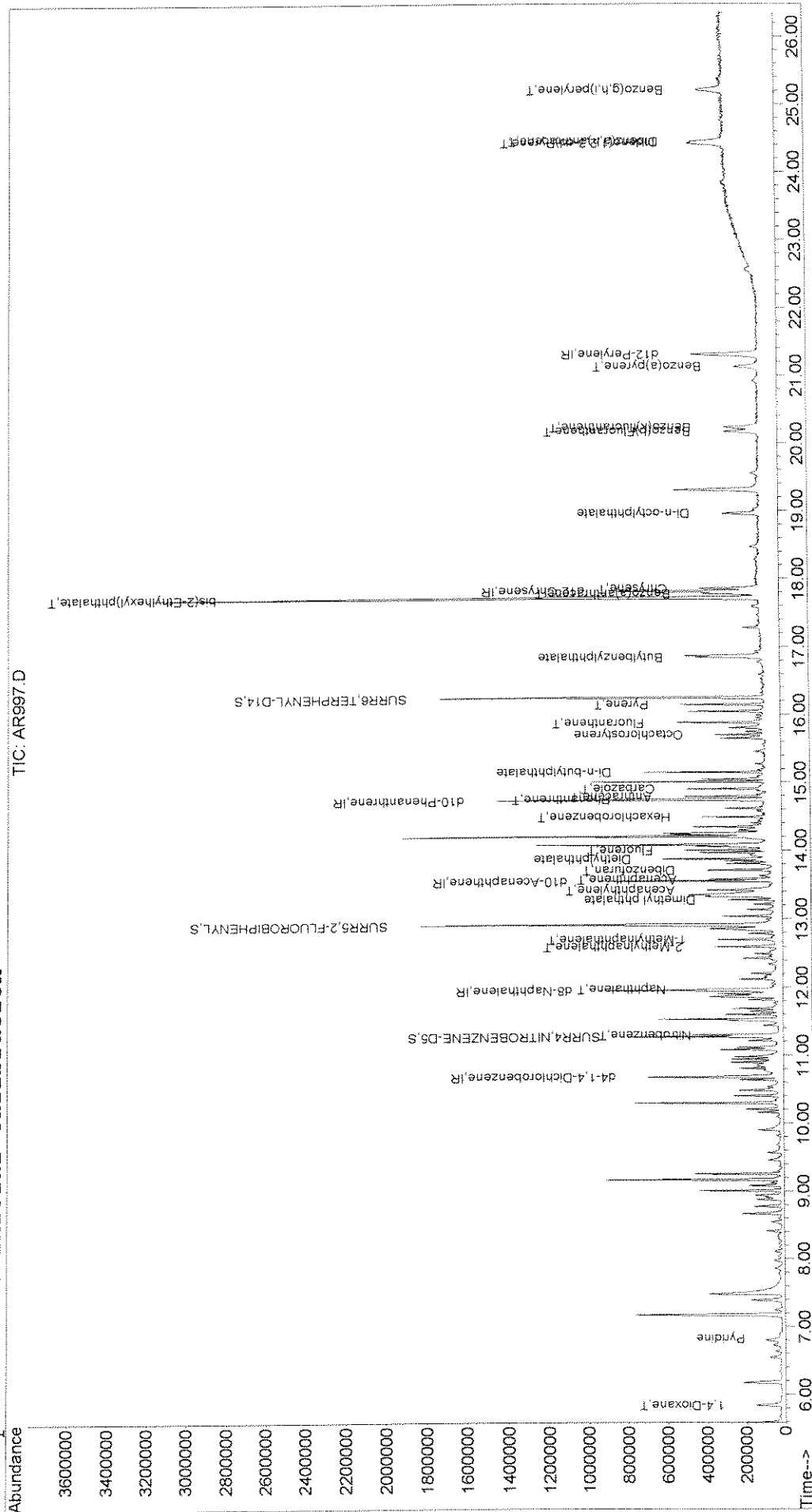
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	146596	0.38	ppm	99
37) Benzo(a)pyrene	21.13	252	114089	0.34	ppm	97
38) Indeno(1,2,3-cd)Pyrene	24.42	276	158497	0.49	ppm	97
39) Dibenz(a,h)anthracene	24.45	278	131206	0.52	ppm	94
40) Benzo(g,h,i)perylene	25.21	276	142419	0.43	ppm	94



Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR997.D Vial: 16
 Acq On : 30 Jun 2008 6:07 pm Operator: J.Wu
 Sample : 1113600 1.0 Inst : 5973C
 Misc : 06/26/2008 1.0 8270.LL LCSD Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 18:33 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 09/02/08

Project Reference:
 Client Sample ID : BLANK SPIKE

Date Sampled : Order #: 1113918 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/30/08			
DATE ANALYZED : 07/01/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	0.48	UG/L
ACENAPHTHYLENE	0.20	0.46	UG/L
ANTHRACENE	0.20	0.36	UG/L
BENZO (A) ANTHRACENE	0.20	0.43	UG/L
BENZO (A) PYRENE	0.20	0.34	UG/L
BENZO (B) FLUORANTHENE	0.20	0.42	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.45	UG/L
BENZO (K) FLUORANTHENE	0.20	0.43	UG/L
BUTYL BENZYL PHTHALATE	5.0	0.89 J	UG/L
DI-N-BUTYLPHthalate	5.0	2.3 J	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.52	UG/L
CHRYSENE	0.20	0.42	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.54	UG/L
DIETHYLPHthalate	5.0	0.54 J	UG/L
DIMETHYL PHTHALATE	5.0	0.46 J	UG/L
1, 4-DIOXANE	2.0	2.3	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.5	UG/L
FLUORANTHENE	0.20	0.41	UG/L
FLUORENE	0.20	0.53	UG/L
HEXACHLOROBENZENE	0.20	0.37	UG/L
2-METHYLNAPHTHALENE	0.20	0.33	UG/L
NAPHTHALENE	0.20	0.42	UG/L
NITROBENZENE	0.20	0.40	UG/L
OCTACHLOROSTYRENE	0.20	0.39	UG/L
DI-N-OCTYL PHTHALATE	5.0	0.69 J	UG/L
PHENANTHRENE	0.20	0.43	UG/L
PYRENE	0.20	0.45	UG/L
PYRIDINE	2.0	0.070 J	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	100	%
NITROBENZENE-d5	(45 - 135 %)	80	%
2-FLUOROBIPHENYL	(45 - 135 %)	70	%

000993

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS023.D
 Acq On : 1 Jul 2008 7:57 pm
 Sample : 1113918 1.0
 Misc : 06/30/2008 1.0 8270.LL LCS
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 20:23:41 2008

Vial: 13
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	90418	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	329505	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	155793	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	378574	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	310621	1.00	ppm	0.00
33) d12-Perylene	21.30	264	243526	1.00	ppm	-0.02

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	300328	1.59	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	79.50%		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	388671	1.40	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	70.00%		
28) SURR6,TERPHENYL-D14	16.25	244	525768	2.00	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	100.00%		

Target Compounds

	R.T.	QI on	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.83	88	118530	2.29	ppm	94
3) Pyridine	6.78	79	11380m	0.07	ppm	
6) Nitrobenzene	11.29	77	78710	0.40	ppm	99
7) Naphthalene	11.97	128	141783	0.42	ppm	99
8) 2-Methylnaphthalene	12.59	142	75785	0.33	ppm	94
9) 1-Methylnaphthalene	12.70	142	70659	0.32	ppm	97
12) Acenaphthylene	13.42	152	106466	0.46	ppm	95
13) Dimethyl phthalate	13.28	163	81385	0.46	ppm	98
14) Acenaphthene	13.58	153	74192	0.48	ppm	98
15) Dibenzofuran	13.72	168	101550	0.46	ppm	96
16) Fluorene	14.00	166	103080	0.53	ppm	96
17) Diethylphthalate	13.88	149	138021	0.54	ppm	98
19) Hexachlorobenzene	14.49	284	36743	0.37	ppm	86
20) Phenanthrene	14.76	178	166450	0.43	ppm	98
21) Anthracene	14.80	178	132456	0.36	ppm	95
22) Carbazole	14.91	167	133349	0.49	ppm	99
23) Octachlorostyrene	15.70	380	8945	0.39	ppm	72
24) Di-n-butylphthalate	15.15	149	951045	2.34	ppm	99
25) Fluoranthene	15.88	202	164053	0.41	ppm	99
27) Pyrene	16.15	202	165190	0.45	ppm	99
29) Butyl benzyl phthalate	16.85	149	140095	0.89	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.72	149	1235274	5.49	ppm	99
31) Benzo(a)anthracene	17.78	228	144056	0.43	ppm	97
32) Chrysene	17.86	228	145257	0.42	ppm	94
34) Di-n-octyl phthalate	18.96	149	147691	0.69	ppm	94
35) Benzo(b)Fluoranthene	20.16	252	146257	0.42	ppm	95

(#) = qualifier out of range (m) = manual integration
 AS023.D LVI0626.M Wed Jul 02 07:06:54 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS023.D Vial: 13
 Acq On : 1 Jul 2008 7:57 pm Operator: J.Wu
 Sample : 1113918 1.0 Inst : 5973C
 Misc : 06/30/2008 1.0 8270.LL LCS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 20:23:41 2008 Quant Results File: LVI0626.RES

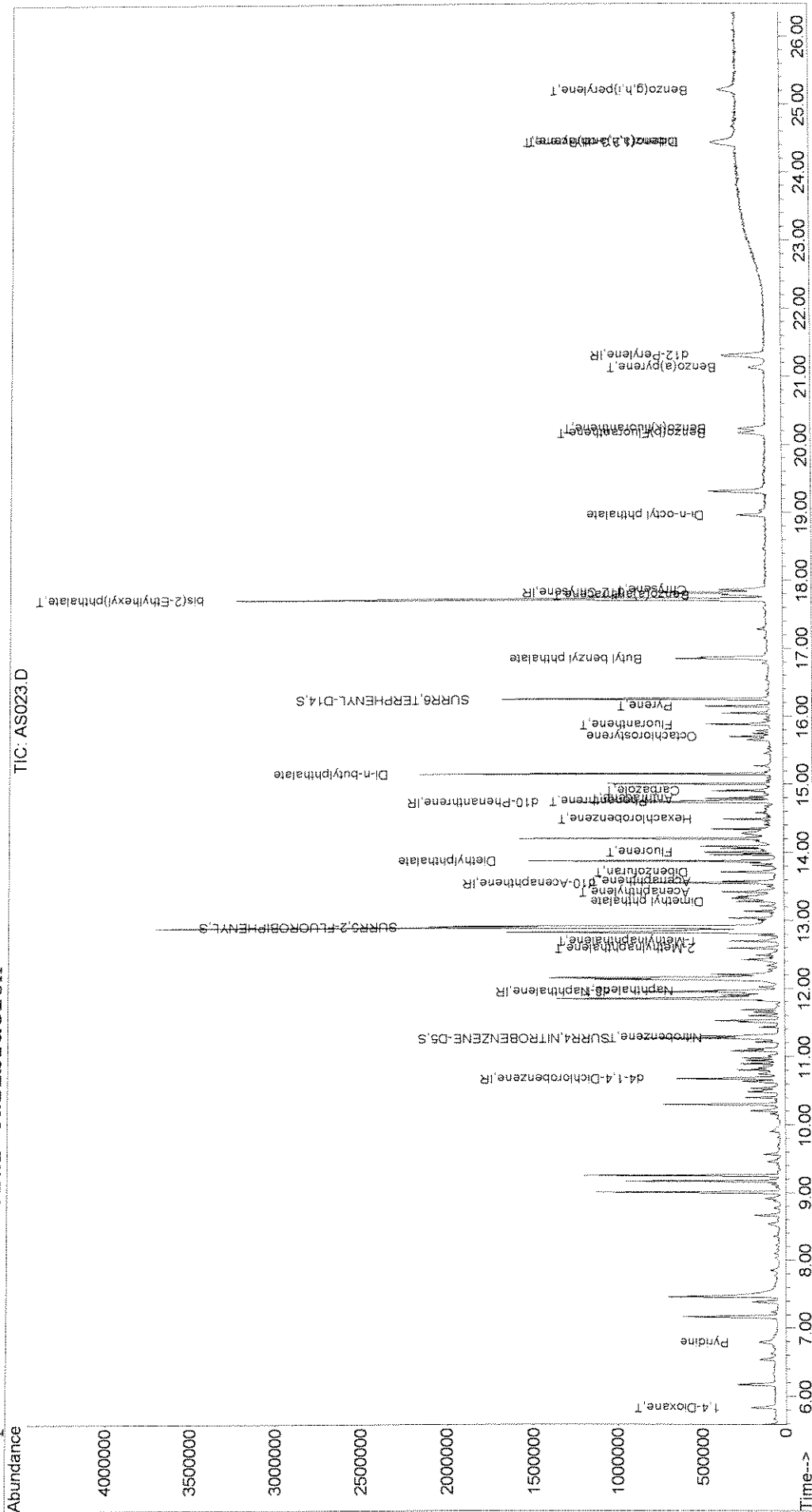
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	144117	0.43	ppm	93
37) Benzo(a)pyrene	21.13	252	98625	0.34	ppm	95
38) Indeno(1,2,3-cd)Pyrene	24.43	276	147642	0.52	ppm	90
39) Dibenz(a,h)anthracene	24.45	278	120757	0.54	ppm	95
40) Benzo(g,h,i)perylene	25.21	276	131725	0.45	ppm	93

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS023.D Vial: 13
 Acq On : 1 Jul 2008 7:57 pm Operator: J.Wu
 Sample : 1113918 1.0 Inst : 5973C
 Misc : 06/30/2008 1.0 8270.LL LCS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 7:01 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 09/02/08

Project Reference:
 Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : Order #: 1113919 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/30/08			
DATE ANALYZED : 07/01/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	0.47	UG/L
ACENAPHTHYLENE	0.20	0.48	UG/L
ANTHRACENE	0.20	0.39	UG/L
BENZO (A) ANTHRACENE	0.20	0.44	UG/L
BENZO (A) PYRENE	0.20	0.37	UG/L
BENZO (B) FLUORANTHENE	0.20	0.42	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.47	UG/L
BENZO (K) FLUORANTHENE	0.20	0.47	UG/L
BUTYL BENZYL PHTHALATE	5.0	0.94 J	UG/L
DI-N-BUTYLPHthalate	5.0	2.4 J	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.52	UG/L
CHRYSENE	0.20	0.41	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.56	UG/L
DIETHYLPHthalate	5.0	0.47 J	UG/L
DIMETHYL PHTHALATE	5.0	0.47 J	UG/L
1, 4-DIOXANE	2.0	2.1	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.6	UG/L
FLUORANTHENE	0.20	0.43	UG/L
FLUORENE	0.20	0.53	UG/L
HEXACHLOROBENZENE	0.20	0.38	UG/L
2-METHYLNAPHTHALENE	0.20	0.34	UG/L
NAPHTHALENE	0.20	0.40	UG/L
NITROBENZENE	0.20	0.38	UG/L
OCTACHLOROSTYRENE	0.20	0.35	UG/L
DI-N-OCTYL PHTHALATE	5.0	0.70 J	UG/L
PHENANTHRENE	0.20	0.42	UG/L
PYRENE	0.20	0.47	UG/L
PYRIDINE	2.0	0.000000 J	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	100	%
NITROBENZENE-d5	(45 - 135 %)	76	%
2-FLUOROBIPHENYL	(45 - 135 %)	69	%

000997

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS024.D
 Acq On : 1 Jul 2008 8:31 pm
 Sample : 1113919 1.0
 Misc : 06/30/2008 1.0 8270.LL LCSD
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 20:58:13 2008

Vial: 14
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	86510	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	315775	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	141816	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	348030	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	291930	1.00	ppm	0.00
33) d12-Perylene	21.30	264	225531	1.00	ppm	-0.02

System Monitoring Compounds	R.T.	QI on	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	274815	1.52	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	76.00%		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	342866	1.37	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	68.50%		
28) SURR6,TERPHENYL-D14	16.25	244	492488	1.99	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	99.50%		

Target Compounds	R.T.	QI on	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	102212	2.06	ppm	97
6) Nitrobenzene	11.29	77	72346	0.38	ppm	95
7) Naphthalene	11.97	128	129223	0.40	ppm	98
8) 2-Methylnaphthalene	12.59	142	74635	0.34	ppm	98
9) 1-Methylnaphthalene	12.70	142	69990	0.33	ppm	99
12) Acenaphthylene	13.42	152	104403	0.48	ppm	100
13) Dimethyl phthalate	13.28	163	78006	0.47	ppm	95
14) Acenaphthene	13.58	153	66500	0.47	ppm	97
15) Dibenzofuran	13.72	168	92764	0.46	ppm	98
16) Fluorene	14.00	166	93906	0.53	ppm	94
17) Diethylphthalate	13.88	149	109621	0.47	ppm	96
19) Hexachlorobenzene	14.49	284	33885	0.38	ppm	89
20) Phenanthrene	14.76	178	148265	0.42	ppm	97
21) Anthracene	14.79	178	134440	0.39	ppm	99
22) Carbazole	14.91	167	122279	0.49	ppm	99
23) Octachlorostyrene	15.70	380	7475	0.35	ppm	91
24) Di-n-butylphthalate	15.15	149	911665	2.44	ppm	99
25) Fluoranthene	15.88	202	156783	0.43	ppm	98
27) Pyrene	16.15	202	159642	0.47	ppm	99
29) Butyl benzyl phthalate	16.85	149	138403	0.94	ppm	96
30) bis(2-Ethylhexyl)phthalate	17.72	149	1180101	5.58	ppm	98
31) Benzo(a)anthracene	17.78	228	139485	0.44	ppm	97
32) Chrysene	17.86	228	134680	0.41	ppm	95
34) Di-n-octyl phthalate	18.96	149	140795	0.70	ppm	98
35) Benzo(b)Fluoranthene	20.16	252	135441	0.42	ppm	93
36) Benzo(k)fluoranthene	20.23	252	143901	0.47	ppm	98

(#) = qualifier out of range (m) = manual integration
 AS024.D LVI0626.M Wed Jul 02 07:09:01 2008

JW ✓ Page 1

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Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS024.D Vial: 14
 Acq On : 1 Jul 2008 8:31 pm Operator: J.Wu
 Sample : 1113919 1.0 Inst : 5973C
 Misc : 06/30/2008 1.0 8270.LL LCSD Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 20:58:13 2008 Quant Results File: LVI0626.RES

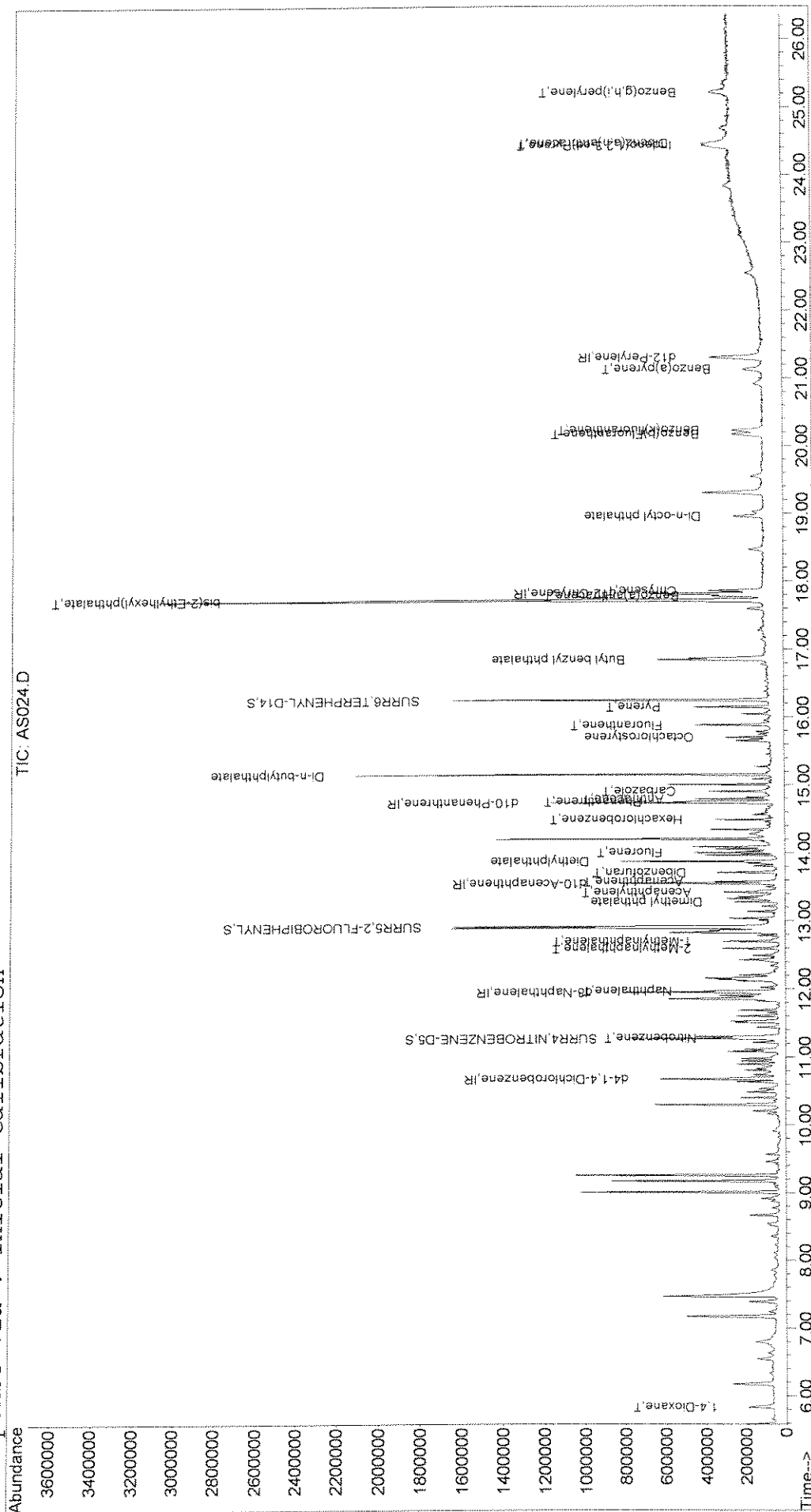
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Benzo(a)pyrene	21.13	252	101119	0.37	ppm	97
38) Indeno(1,2,3-cd)Pyrene	24.42	276	137801	0.52	ppm	92
39) Dibenz(a,h)anthracene	24.45	278	115862	0.56	ppm	99
40) Benzo(g,h,i)perylene	25.21	276	125693	0.47	ppm	96

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS024.D Vial: 14
 Acq On : 1 Jul 2008 8:31 pm Operator: J.Wu
 Sample : 1113919 1.0 Inst : 5973C
 Misc : 06/30/2008 1.0 8270.LL LCSD Multiplr: 1.00
 MS Integration Params: RTEINT.F
 Quant Time: Jul 1 20:58 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 09/02/08

Project Reference:
 Client Sample ID : MATRIX SPIKE

Date Sampled : Order #: 1113920 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/30/08			
DATE ANALYZED : 07/02/08			
ANALYTICAL DILUTION: 0.94			
ACENAPHTHENE	0.20	0.43	UG/L
ACENAPHTHYLENE	0.20	0.44	UG/L
ANTHRACENE	0.20	0.38	UG/L
BENZO (A) ANTHRACENE	0.20	0.38	UG/L
BENZO (A) PYRENE	0.20	0.31	UG/L
BENZO (B) FLUORANTHENE	0.20	0.36	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.44	UG/L
BENZO (K) FLUORANTHENE	0.20	0.36	UG/L
BUTYL BENZYL PHTHALATE	5.0	0.58 J	UG/L
DI-N-BUTYLPHthalate	5.0	1.6 J	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.48	UG/L
CHRYSENE	0.20	0.37	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.52	UG/L
DIETHYLPHthalate	5.0	0.53 J	UG/L
DIMETHYL PHTHALATE	5.0	0.44 J	UG/L
1, 4-DIOXANE	2.0	2.2	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.3 J	UG/L
FLUORANTHENE	0.20	0.43	UG/L
FLUORENE	0.20	0.50	UG/L
HEXACHLOROBENZENE	0.20	0.36	UG/L
2-METHYLNAPHTHALENE	0.20	0.32	UG/L
NAPHTHALENE	0.20	0.38	UG/L
NITROBENZENE	0.20	0.33	UG/L
OCTACHLOROSTYRENE	0.20	0.34	UG/L
DI-N-OCTYL PHTHALATE	5.0	0.64 J	UG/L
PHENANTHRENE	0.20	0.42	UG/L
PYRENE	0.20	0.41	UG/L
PYRIDINE	2.0	0.19 J	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	89	%
NITROBENZENE-d5	(45 - 135 %)	71	%
2-FLUOROBIPHENYL	(45 - 135 %)	65	%

01001

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070208\AS045.D Vial: 11
 Acq On : 2 Jul 2008 1:51 pm Operator: J.Wu
 Sample : 1113920 0.94 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1112874MS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 14:17:46 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.67	152	78340	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	281448	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	145298	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	339182	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	297227	1.00	ppm	0.00
33) d12-Perylene	21.30	264	239282	1.00	ppm	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
5) SURR4,NITROBENZENE-D5	11.26	82	227564	1.41	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	70.50%		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	332295	1.30	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	65.00%		
28) SURR6,TERPHENYL-D14	16.25	244	447122	1.78	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	89.00%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.83	88	103661	2.31	ppm	88
3) Pyridine	6.77	79	29846	0.20	ppm	91
6) Nitrobenzene	11.29	77	59213	0.35	ppm	90
7) Naphthalene	11.97	128	114656	0.40	ppm	98
8) 2-Methylnaphthalene	12.59	142	66669	0.34	ppm	95
9) 1-Methylnaphthalene	12.70	142	64468	0.34	ppm	92
12) Acenaphthylene	13.42	152	102984	0.47	ppm	100
13) Dimethyl phthalate	13.28	163	79173	0.47	ppm	99
14) Acenaphthene	13.58	153	65493	0.46	ppm	90
15) Dibenzofuran	13.72	168	107441	0.49	ppm	88
16) Fluorene	14.00	166	94589	0.53	ppm	93
17) Diethylphthalate	13.88	149	133429	0.56	ppm	98
19) Hexachlorobenzene	14.49	284	33337	0.38	ppm	84
20) Phenanthrene	14.75	178	154041	0.45	ppm	98
21) Anthracene	14.79	178	135673	0.41	ppm	99
22) Carbazole	14.91	167	128540	0.52	ppm	73
23) Octachlorostyrene	15.70	380	7485	0.36	ppm	79
24) Di-n-butylphthalate	15.15	149	640024	1.76	ppm	99
25) Fluoranthene	15.88	202	163206	0.46	ppm	97
27) Pyrene	16.15	202	154219	0.44	ppm	98
29) Butyl benzyl phthalate	16.84	149	93679	0.62	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.71	149	994524	4.62	ppm	98
31) Benzo(a)anthracene	17.78	228	131037	0.40	ppm	97
32) Chrysene	17.86	228	129792	0.39	ppm	98
34) Di-n-octyl phthalate	18.96	149	139580	0.68	ppm	96
35) Benzo(b)Fluoranthene	20.17	252	129131	0.38	ppm	95

(#) = qualifier out of range (m) = manual integration
 AS045.D LVI0626.M Thu Jul 03 08:42:35 2008

JW ✓

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS045.D Vial: 11
 Acq On : 2 Jul 2008 1:51 pm Operator: J.Wu
 Sample : 1113920 0.94 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1112874MS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 14:17:46 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	124866	0.38	ppm	93
37) Benzo(a)pyrene	21.13	252	95173	0.33	ppm	97
38) Indeno(1,2,3-cd)Pyrene	24.42	276	143441	0.51	ppm	99
39) Dibenz(a,h)anthracene	24.45	278	119293	0.55	ppm	95
40) Benzo(g,h,i)perylene	25.21	276	133087	0.47	ppm	95

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 09/02/08

Project Reference:
 Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled : Order #: 1113921 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163278

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/30/08			
DATE ANALYZED : 07/02/08			
ANALYTICAL DILUTION: 0.94			
ACENAPHTHENE	0.20	0.48	UG/L
ACENAPHTHYLENE	0.20	0.46	UG/L
ANTHRACENE	0.20	0.40	UG/L
BENZO (A) ANTHRACENE	0.20	0.42	UG/L
BENZO (A) PYRENE	0.20	0.37	UG/L
BENZO (B) FLUORANTHENE	0.20	0.43	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.50	UG/L
BENZO (K) FLUORANTHENE	0.20	0.42	UG/L
BUTYL BENZYL PHTHALATE	5.0	0.55 J	UG/L
DI-N-BUTYLPHthalate	5.0	1.0 J	UG/L
INDENO (1, 2, 3-CD) PYRENE	0.20	0.57	UG/L
CHRYSENE	0.20	0.41	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.61	UG/L
DIETHYLPHthalate	5.0	0.50 J	UG/L
DIMETHYL PHTHALATE	5.0	0.48 J	UG/L
1, 4-DIOXANE	2.0	2.8	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.9	UG/L
FLUORANTHENE	0.20	0.46	UG/L
FLUORENE	0.20	0.52	UG/L
HEXACHLOROBENZENE	0.20	0.41	UG/L
2-METHYLNAPHTHALENE	0.20	0.36	UG/L
NAPHTHALENE	0.20	0.41	UG/L
NITROBENZENE	0.20	0.38	UG/L
OCTACHLOROSTYRENE	0.20	0.42	UG/L
DI-N-OCTYL PHTHALATE	5.0	0.70 J	UG/L
PHENANTHRENE	0.20	0.45	UG/L
PYRENE	0.20	0.46	UG/L
PYRIDINE	2.0	0.17 J	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	100	%
NITROBENZENE-d5	(45 - 135 %)	76	%
2-FLUOROBIPHENYL	(45 - 135 %)	71	%

01005

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS046.D Vial: 12
 Acq On : 2 Jul 2008 2:27 pm Operator: J.Wu
 Sample : 1113921 0.94 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1112874MSD Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 14:53:36 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	63830	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	248013	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	124002	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	289805	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	258618	1.00	ppm	-0.01
33) d12-Perylene	21.30	264	203264	1.00	ppm	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4, NITROBENZENE-D5	11.27	82	215320	1.52	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	76.00%		
11) SURR5, 2-FLUOROBIPHENYL	12.91	172	313677	1.42	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	71.00%		
28) SURR6, TERPHENYL-D14	16.25	244	436436	1.99	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	99.50%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.82	88	108291	2.96	ppm	88
3) Pyridine	6.78	79	21341m	0.18	ppm	
6) Nitrobenzene	11.29	77	61166	0.41	ppm	94
7) Naphthalene	11.97	128	113239	0.44	ppm	99
8) 2-Methylnaphthalene	12.59	142	65480	0.38	ppm	95
9) 1-Methylnaphthalene	12.70	142	63595	0.38	ppm	97
12) Acenaphthylene	13.42	152	93397	0.49	ppm	98
13) Dimethyl phthalate	13.28	163	76776	0.51	ppm	97
14) Acenaphthene	13.58	153	65000	0.51	ppm	96
15) Dibenzofuran	13.72	168	91859	0.49	ppm	97
16) Fluorene	14.00	166	85739	0.55	ppm	98
17) Diethylphthalate	13.88	149	107578	0.53	ppm	98
19) Hexachlorobenzene	14.49	284	32876	0.44	ppm	84
20) Phenanthrene	14.75	178	141290	0.48	ppm	98
21) Anthracene	14.79	178	122256	0.43	ppm	97
22) Carbazole	14.91	167	100580	0.48	ppm	96
23) Octachlorostyrene	15.70	380	7914	0.45	ppm	75
24) Di-n-butylphthalate	15.15	149	344482	1.11	ppm	97
25) Fluoranthene	15.88	202	149197	0.49	ppm	97
27) Pyrene	16.15	202	147466	0.49	ppm	99
29) Butyl benzyl phthalate	16.85	149	77291	0.59	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.71	149	979295	5.23	ppm	96
31) Benzo(a)anthracene	17.78	228	127222	0.45	ppm	92
32) Chrysene	17.85	228	126279	0.44	ppm	95
34) Di-n-octyl phthalate	18.95	149	140876	0.75	ppm	98
35) Benzo(b)Fluoranthene	20.16	252	132687	0.46	ppm	94

(#) = qualifier out of range (m) = manual integration
 AS046.D LVI0626.M Thu Jul 03 08:47:24 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS046.D Vial: 12
 Acq On : 2 Jul 2008 2:27 pm Operator: J.Wu
 Sample : 1113921 0.94 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1112874MSD Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 14:53:36 2008 Quant Results File: LVI0626.RES

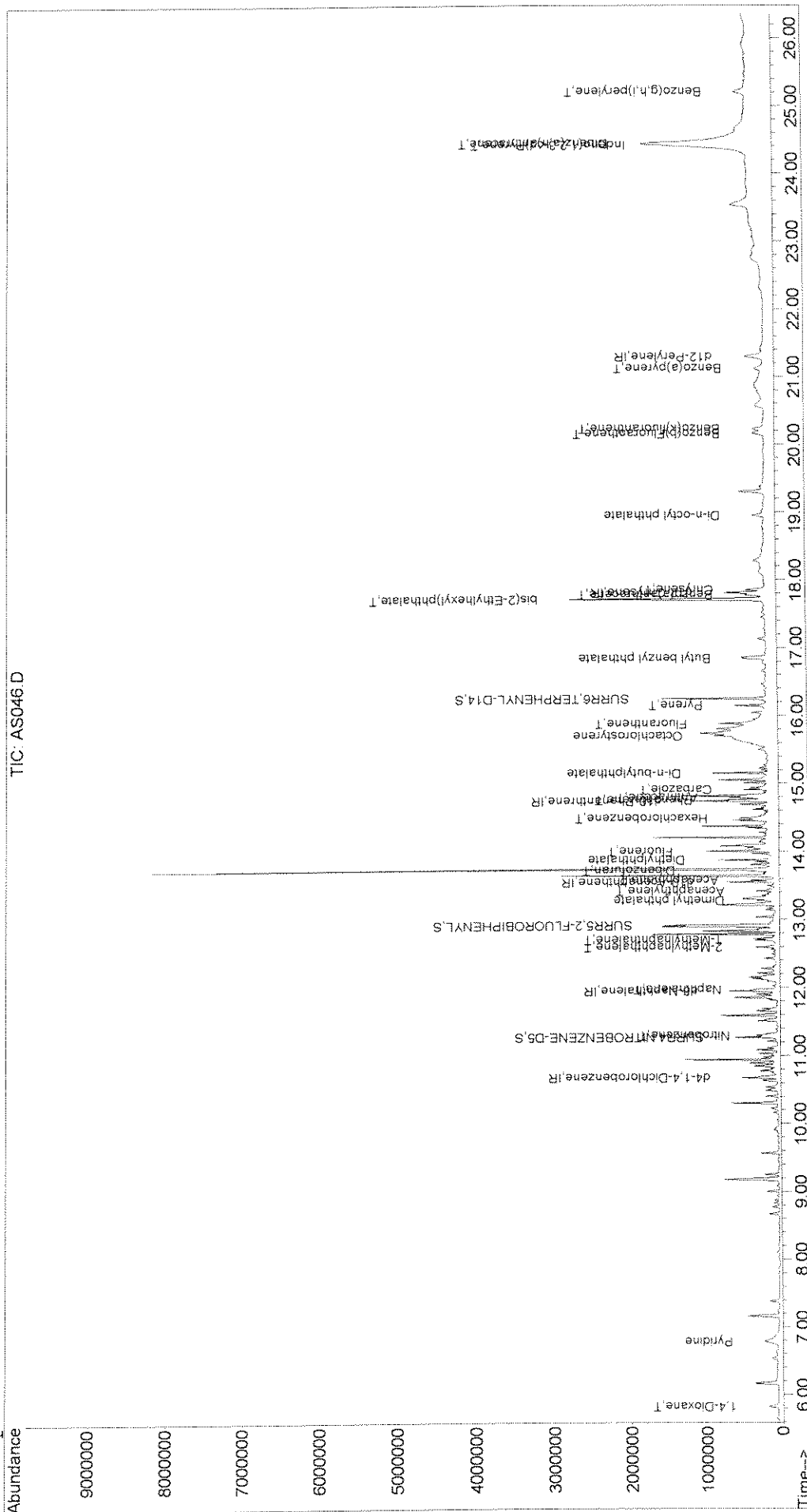
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.22	252	125406	0.45	ppm	97
37) Benzo(a)pyrene	21.12	252	96522	0.39	ppm	98
38) Indeno(1,2,3-cd)Pyrene	24.41	276	152825	0.61	ppm	98
39) Dibenz(a,h)anthracene	24.44	278	130511	0.65	ppm	95
40) Benzo(g,h,i)perylene	25.21	276	129326	0.53	ppm	97

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070208\AS046.D Vial: 12
 Acq On : 2 Jul 2008 2:27 pm Operator: J.Wu
 Sample : 1113921 0.94 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1112874MSD Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 8:46 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration



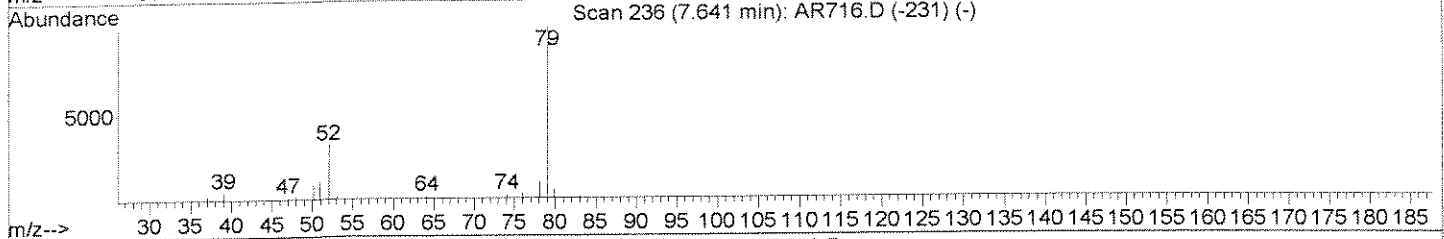
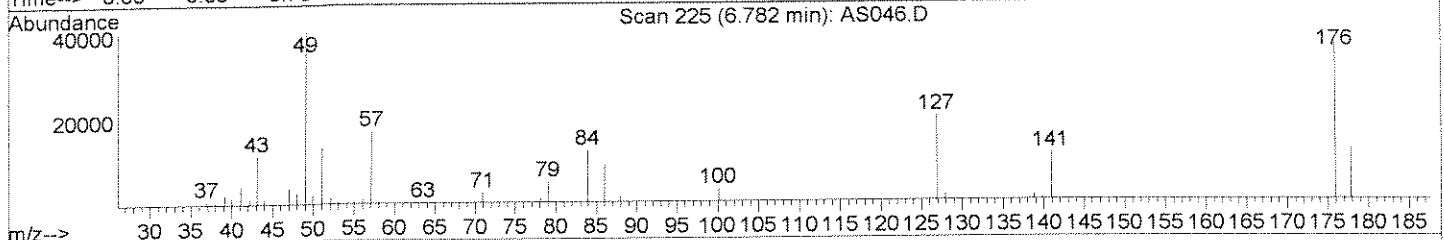
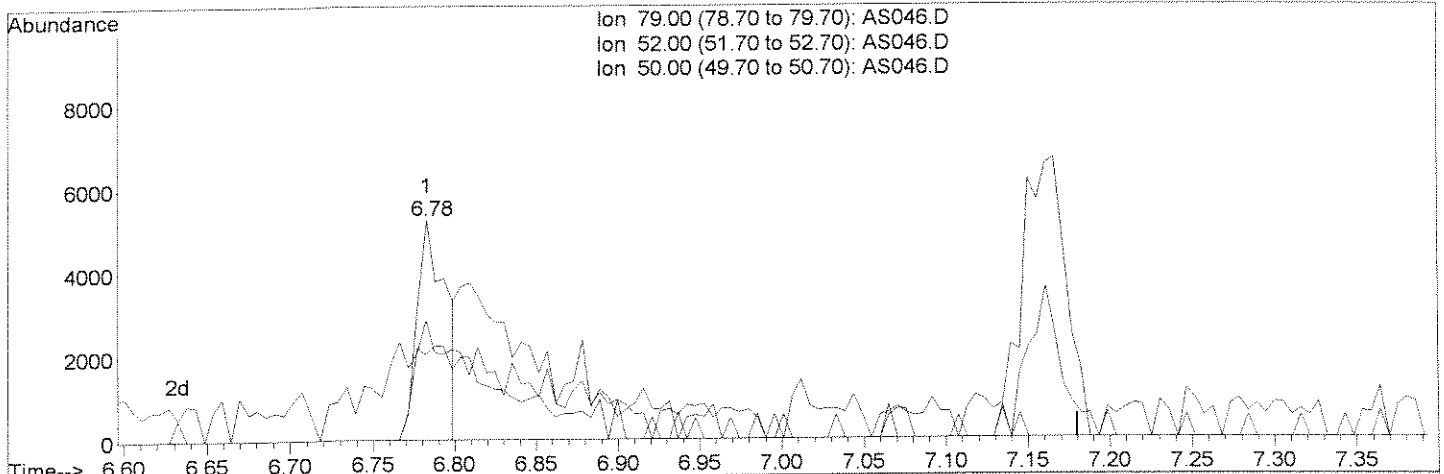
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS046.D
 Acq On : 2 Jul 2008 2:27 pm
 Sample : 1113921 0.94
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1112874MSD
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 14:53 2008

Vial: 12
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(3) Pyridine
 6.78min 0.05ppm
 response 6404

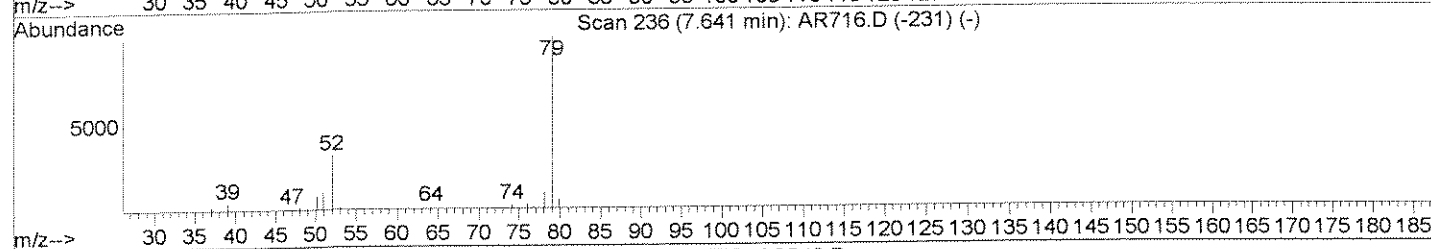
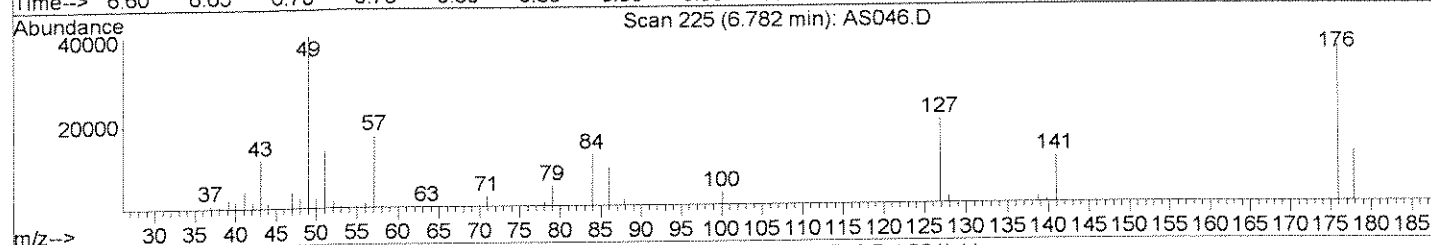
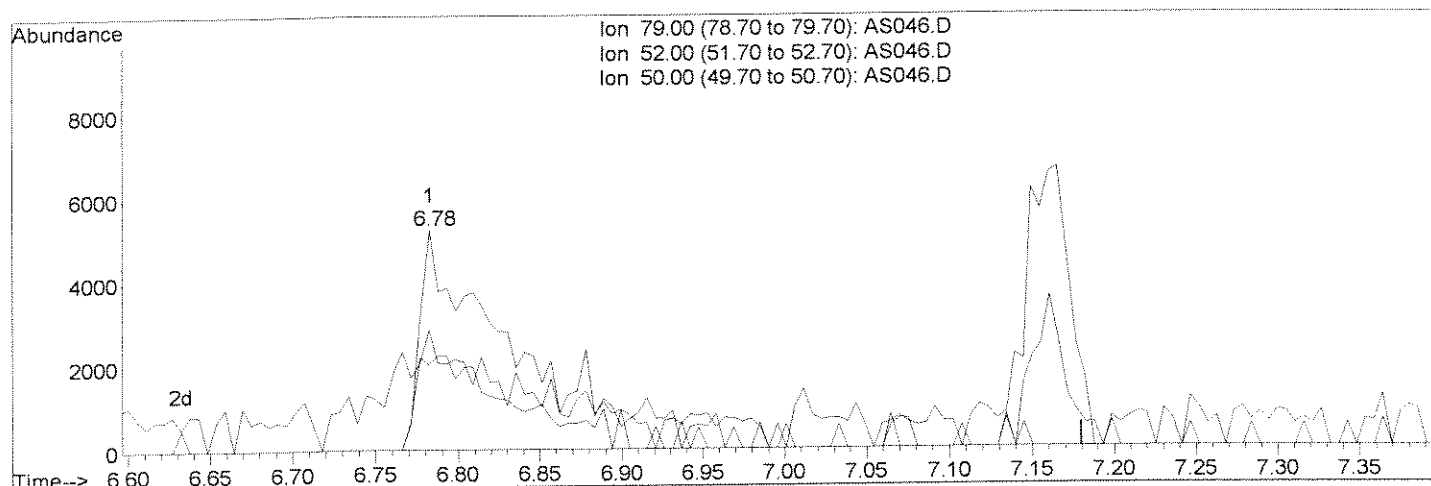
Ion	Exp%	Act%
79.00	100	100
52.00	45.40	33.10
50.00	17.50	24.58
0.00	0.00	0.00

B

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070208\AS046.D Vial: 12
 Acq On : 2 Jul 2008 2:27 pm Operator: J.Wu
 Sample : 1113921 0.94 Inst : 5973C
 Misc : 06/30/2008 1.0 ENSR 8270.NEVA 1112874MSD Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 3 8:46 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Multiple Level Calibration



(3) Pyridine

6.78min 0.18ppm m

response 21341

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	38.70
50.00	17.50	54.56#
0.00	0.00	0.00

AW 7/3

WJ 7/3

Extraction Te: 6/26/2008 Spiked By: fw Prep Method: 3540C 3550B 3520C
 Extraction Date: 6/26/2008 Spk Witness: LED Appearance (see key): 3510C 3580A
 Concentration Tech: LED Initial Wt. (g) or Volume (ml): 10.00
 40 Day HT: 8/5/2008

COLUMBIA ANALYTICAL SERVICES - ROCHESTER, NY
 Color: G = Colorless; Y = Yellow; B = Brown; BL = Black; G = Grey
 Clarity: CLR = Clear; CDY = Cloudy; OP = Opaque
 Soils: F = Fine/Sand; M = Medium/Soil; C = Coarse/Rocks

Batch ID: E062608B
 Prep ID: ppg. ASD 7/9/08

Client / Sub. #	Sample ID	Analysis (Test) Requested	pH		Check (water only)		Conc. Date	Final Volume (ml)	Date Complete	Comments / Emulsions
			REC'D	BN	> 11	Acid < 2				
<u>1113598</u>	• BLK •	8270LL	<u>6</u>		<u>1</u>	<u>2</u>	<u>6/27</u>	<u>ml</u>	<u>6/27</u>	
<u>1113599</u>	• LCS •	8270LL	<u>6</u>		<u>1</u>	<u>2</u>				
<u>1112600</u>	• LCS •	8270LL	<u>6</u>		<u>1</u>	<u>2</u>				
<u>R44538</u>	• 1111264 •	8270C.NEVA	<u>7</u>		<u>1</u>	<u>2</u>				
	• 1111265 •	8270C.NEVA	<u>7</u>		<u>1</u>	<u>2</u>				
	• 1111266 •	8270C.NEVA	<u>7</u>		<u>1</u>	<u>2</u>				
	• 1111267 •	8270C.NEVA	<u>7</u>		<u>1</u>	<u>2</u>				
	• 1111763 •	8270C.NEVA	<u>7</u>		<u>1</u>	<u>2</u>				
	• 1111764 •	8270C.NEVA	<u>7</u>		<u>1</u>	<u>2</u>				
	• 1111765 •	8270C.NEVA	<u>7</u>		<u>1</u>	<u>2</u>				
<u>R44650</u>	• 1112065 •	8270C.NEVA	<u>7</u>		<u>1</u>	<u>2</u>				
	• 1112066 •	8270C.NEVA	<u>7</u>		<u>1</u>	<u>2</u>				
	• 1112067 •	8270C.NEVA	<u>7</u>		<u>1</u>	<u>2</u>				
<u>R44630</u>	• 1111673 •	8270C.LLDI	<u>7</u>		<u>1</u>	<u>2</u>				
	• 1111674 •	8270C.LLDI	<u>7</u>		<u>1</u>	<u>2</u>				

Spikes: AE/BN Surrogate Amt. 1 ml Conc. 2 ppm Lot# 0-359-205-C
 BN Surrogate Amt. 1 ml Conc. 5-5 ppm Lot# 0-359-196-G
 LL PAH Spike Amt. 1 ml Conc. 5-5 ppm Lot# 0-359-196-G
 8270 LCS MIX 1 Amt. 1 ml Conc. 5-5 ppm Lot# 0-359-201-K
 Custom List Spike Amt. 1 ml Conc. 5-5 ppm Lot# 0-359-201-K
 Benzidine Spike Amt. 1 ml Conc. 5-5 ppm Lot# 0-359-201-K
 Other: _____

Clean-Ups: None

Method Summary: 1000mls sample extracted with 60mls MeCl2 3x at a Ph<2 for 2 min. repeat at pH >11.

Solvents: 50:50 Ace:MeCl2 Lot # _____
 MeCl2 Lot # 0-359-201-K
 Acetone Lot # _____

Other: Sulfuric Acid Lot# 0-359-38-P
 Sodium Hydroxide Lot# 0-359-36-R
 Other: _____

Run # 163278 4879

Extraction Te	Extraction Date	Concentration Tech	40 Day HT	Sample ID	Spiked By	Prep Method	Analysis (Test) Requested	Check		Date	Final Volume (ml)	Date Complete	Comments / Emulsions		
								REC'D	BN > 11						
Client / Sub. #	Initial Wt. (g) or Volume (ml)	Appearance (see key)	Spk Witness	Spk Wt. (g)	Spk Volume (ml)	3540C	3510C	3580A	3550B	3520C	Colorless	Yellow	Brown	Black	Grey
1113917	1000	C-LLN	LED	89/2008	6/30/2008					6/30	1 mL	6/30	ppg. Agob 7/10/08		
1113918	1000														
1113919	1000														
R44650	1000														
1112486	1000														
1112487	1000														
1112488	1000														
1112489	1000														
1112809	700														
1112810	700														
1112811	1050														
1112812	1000														
1112871	1020														
1112872	1000														
1112874	1000														
1112874 MS	1000														
1112874 MSD	1000														
1113426	1020														
1113427	1000														
1113428	1000														
1113429	1000														
1113430	990														
109406	1020														
1103401	1000														

Clean-Ups: None

(All samples spiked with Surrogate; LCS/LCSD, MS/MSD had spike added.)

Spikes: AE/BN Surrogate Amt. Conc. Lot#
 BN Surrogate Amt. Conc. Lot#
 LL PAH Spike Amt. Conc. Lot#
 8270 LCS MIX 1 Amt. Conc. Lot#
 Custom List Spike Amt. Conc. Lot#
 Benzidine Spike Amt. Conc. Lot#
 8270 LCS MIX 1 Amt. Conc. Lot#
 8270 LCS MIX 2 Amt. Conc. Lot#
 Other:

Method Summary:
 1000mls sample extracted with 60mls MeCl2 3x at a Ph<2 for 2 min. repeat at pH >11.

Solvents: 50:50 Ace:MeCl2 Lot # Hexane Lot# Ether Lot#
 MeCl2 Lot # 0-399-37-X Sodium Sulfate Lot# 0-345-86-J
 Acetone Lot # Other: Sulfuric Acid Lot# 0-345-88-A
 Sodium Hydroxide Lot# 0-345-36-1A

10 ml of 100ppm ISTD (0-59-2054) to 1.0 ml.

5/26/08	Tune check	2019 OFTPP	Tune cm	AR 914	YT	
	Calibration check	2.0/4.0 ppm	LV10624.m	AR 915	Y	
	Tune cm	2019 OFTPP	Tune cm (0-59-2054)	AR 926	YT	4:24
1	BK			927	Y	m
2	Initial Calibrat	0.1/0.2 ppm	LV10626.m	AR 928	YS	
3		0.2/0.4		929	YS	
4		0.5/1.0		930	YS	
5		1.0/2.0		931	YS	AR 922
6		2.0/4.0		932	YS	83643
7		3.0/6.0		933	YS	327832
8		4.0/8.0		934	YS	150391
9		5.0/10.0		935	YS	318860
10		10.0/20.0		AR 936	YS	299259
11	ICV 1	1.0 ppm		937	YC	#64
12	ICV 2	2.0 ppm		AR 938	YC	11:20
13	Tune cm	2019 OFTPP	Tune cm	AR 939	YT	11:53
14	Calibration check	2.0/4.0 ppm	LV10626.m	AR 940	YC	AR 940
15	MDL (35508)	MDL 2	8270.LL 6/11/08 soil	AR 941	Y	85042
16	MDL	MDL BK	8270.LL 6/23/08 water	AR 942	Y	330411
17		MDL 1	(2 ppm pyridine)	943	Y	131431
18		2		944	Y	332218
19		3		945	Y	314728
20		4		946	Y	238408
21		5		947	Y	
22		6		948	Y	
23		7		949	Y	
24		V		AR 950	Y	
25	MDL (35508)	MDL 1	8270.LL 6/23/08 soil	AR 951	Y	
26		2	(2 ppm pyridine)	952		
27		3		953		
28		4		954	Y	
29		5		955	Y	
30		6		956	Y	
31		7		957	Y	
32		V		958	Y	
33		MDL BK 2	304471-5	AR 959	Y	11:23

TW.

10ml of 100 ppm 15TD (0-159-2085) to 1.0ml 5973-C

Date	Time check	20 ng DFTPP	Tuncel.m	AR	YT
6/30/08				AR 981	YT 837
1	Calibration check	2.0/40 ppm	LV10626.m	AR 982	YC
2	MDL (3500, 0.2/0.8 ppm)	MDL 3	8270.LL 6/11/08 soil	AR 983	Y
3		4		984	Y
4		5		985	Y
5		6		986	Y
6		7		987	Y
7		✓		AR 988	Y
8		MDL BIK		AR 989	YM
R-44538 9	JW 6/11/08 Master ENSR	1113574 LCS	8270.NEVA 6/23/08 W.	AR 990	YR *2.36, *24.34†
10		1113575 LCS		991	YR *2.36, *24.34†
11		1109708 0.94		992	Y
12		1110532 0.96		993	Y
13		1110981 0.94		AR 994	Y
R-44538 14	MDL	1113598 BIK	8270.NEVA 6/26/08 Water	AR 995	YM
(R-44650) 15		1113599 LCS	(R-44650 8270.NEVA) (R-44630 8270.LL DL) → OK	996	YR *2.36, *24.34†
16		1113600 LCS		997	YR *2.36, *24.34†
17		1111264 0.95		998	Y IS ↓, RPT STD.
18		1111265 0.96		AR 999	Y
19		1111266 0.94		AS 001	Y IS ↓, RPT STD.
20		1111267 0.95		AS 002	Y
21	MDL test (50X)	MDL BIK 2	8270.LL 6/30/08 soil	AS 003	OK
	AR 982	22	3	004	OK
10.68	102949	23	4	AS 005	OK
11.95	397895				
12.55	196935				
14.74	405436				
17.82	387612				
21.31	307668				

JW

5973-C

1 out of 100ppm STD (0.119-2085) to 1.0ml

7/1/08	Tune check	2.0ng DFPP	TuneLM ^(0.119-2014)	AS006	Failed Today
	Tune check	2.0ng DFPP	TuneLM	AS007	YT 9:57
	Calibration check	2.0/4.0 ppm	LV10626.M	AS008	Failed
	Calibration check			AS009	↓
	Tune check	2.0ng DFPP	TuneLM (0.119-2014)	AS010	YT 12:22
1	Calibration check	2.0/4.0ppm	LV10626.M	AS011	YC
R-4438 2	1111262	1111264 0.95 (re) 8270.NEVA 6/24/8 water		AS012	Y ISV
3		1111266 0.94 (re)		AS013	Y ISV
4		1111763 0.94		014	Y
5		1111764 0.94		015	Y ISV RPT STR.
6		1111765 0.94		AS016	Y
R-4465 7	1112065	1112065 0.94 8270.NEVA 6/26/8 water		AS017	Y
8		1112066 1.0		018	Y
9		1112067 0.94		AS019	Y
R-4463 10	1111673	1111673 0.95 8270.UZL 4/24/8 w.		AS020	Y
11		1111674 0.94		AS021	Y
R-4476 12	1113922	1113922 BLK 8270.UZL 6/30/08 water		AS022	YM
(R-4465) 13		1113923 Lcs (OK) (R-4465 8270.NEVA)		023	YR #2,3,6 #24,29,34↑
14		1113924 Lcs (OK)		024	YR #2,3,6 #24,29,34↑
15		1113406 0.98		025	Y
16		1113407 0.94		AS026	Y
R-4438 17	1111764	1111764 0.94 8270.NEVA ^(re) 6/26/08 w.		AS027	Y ISV
R-4465 18	1112486	1112486 0.94x10 8270.NEVA 6/30/08 water		AS028	No. RPT YS
19		1112488 0.94		029	Y ISV RPT STR.
20		1112810 0.94		AS030	Y 11:59
21	cancel			AS032	—

AS011

- 10.68 102393
- 11.75 382043
- 13.55 187316
- 14.74 377250

JW

10 ml of 100 ppm STD (0-149-2085) to 1.0 ml

7/2/08	Tune check	20ng DETPP	Tune m (0-149-209A)	AS033	Fail
	Tune check	20ng DETPP	Tune m	AS034	YT 7:27
1	Calibration check	2.0/4.0 ppm	LVI 0626-M	AS035	YC
-44650 2	Non	1112488 0.94	20.00 NZVA 6/10/08 water	AS036	Y ISU
3		1112486 0.9445=972		037	Y
4		1112487 0.94X3=2.83		038	Y
5		1112811 0.95		039	Y
6		1112489 0.76X3=2.28	To 7/1/08	040	Y
7		1112812 0.99		041	Y
8		1112872 0.79		042	Y
9		1112809 1.41		043	Y ISU RPT STR.
10		1112874 0.94		044	Y
11		1113920 0.94 (1112874ms)		045	Y R 36, *24↑
12		1113921 0.94 (1112874ms)		046	Y R 36, *24, 38, 39↑
13		1113426 0.98		047	Y
14		1113427 0.99		048	Y
15		1113428 1.0		049	Y ISU RPT STR.
16		1113429 0.94		050	Y
17		1113430 1.03		051	Y
18		1112871 0.98		AS052	Y
19		1112487 0.94		AS053	ISU, NO, use 4/3
20		1112809 1.41 (Rc)		AS054	Y ISU 7:13
21	Other			AS057	—

AS035

- 10.67 95576
- 11.95 370559
- 13.55 184867
- 14.74 377883
- 17.81 347150

SW

10 ul of 100 ppm (STD 0559-2083) to 1.0 ml

5973-C

Date	Notes	Concentration	Volume	Sample ID	Result
7/3/08	Tune check	20 ng DFTPP	Tune in (0.559-2083)	AS058	Failed
	Tune check	20 ng DFTPP		AS039	↓
	Tune check	20 ng DFTPP	Tune in (0.559-2083)	AS060	YT 10.35
1	Calibration check	2.0/4.0 ppm	LV10626.M	AS061	YC
R-4440 2	1113428	1113428 1.0 (Re)	8270.NEVA 6/30/08 W	AS062	Y ISB
R-4666 3	1114730	1114730 BK	8270.NEVA 7/1/08 Scott	AS063	spring error, repeats
4		1114731 LCS		064	YR #36, #24, 30, 34 ↑
5		1114732 LCS		065	YR #36, #24, 30, 34, 36 ↑
6		1113245 1/5		066	Y, Rpt 1/2
7		1113250 1.0		067	Y, Rpt 1/2, 1/5
8		1114734 1.0 (1113250 msd)		068	YR #24 ↑
9		1114735 1.0 (1113250 msd)		069	YR #36, #24, 30, 34, 36 ↑
10		1113249 1.0		070	Y, Rpt 1/2, Y2
11		1113254 1.0		071	Y, Rpt 1/2
12		1113255 1.0		072	Y, ISB, Rpt 1/2, 1/20
13		1113256 1.0		073	Y, Rpt 1/2, 1/20
14		1113257 1.0		074	Y ISB, sum of Rpt 1/2, 1/20
15		1113258 1.0		075	Y Rpt 1/2, 1/10
16		1113259 1.0		076	Y ISB Rpt 1/2, 1/15
17		1113262 1.0		077	Y ISB Rpt 1/2, 1/20
18	LCS 3			078	Y ISB some compounds
19	LCS 4			AS079	Y ISB ↓ 10.32
3		1114730 BK		AS080	Y in #30, 34 ↑
21	check 2 (0.544-37X)			AS083	-

AS061

- 10.67 81123
- 11.74 320607
- 13.54 137453
- 14.73 357691

JW

PESTICIDES
QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 1112874 ENSR International

Client ID: M-7BB

Test: 8081A.NEVA

Analytical Units: UG/L

Run Number : 163158

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
ALDRIN	0.0971	0	0.082	84	0.076	78	8	30	24 - 122
ALPHA-BHC	0.0971	0	0.100	103	0.096	99	4	30	50 - 150
BETA-BHC	0.0971	0	0.081	83	0.077	79	5	30	63 - 107
GAMMA-BHC	0.0971	0.120	0.220	103	0.210	93	5	30	44 - 131
DELTA-BHC	0.0971	0	0.087	90	0.089	92	2	30	49 - 116
ALPHA-CHLORDANE	0.0971	0	0.068	70	0.062	64	9	30	36 - 127
GAMMA-CHLORDANE	0.0971	0	0.090	93	0.089	92	1	30	48 - 122
4,4'-DDE	0.0971	0	0.073	75	0.065	67	12	30	30 - 127
4,4'-DDT	0.0971	0	0.079	81	0.071	73	11	30	39 - 154
DIELDRIN	0.0971	0	0.086	89	0.080	82	7	30	37 - 151
ALPHA-ENDOSULFAN	0.0971	0	0.080	82	0.076	78	5	30	39 - 125
BETA-ENDOSULFAN	0.0971	0	0.088	91	0.082	84	7	30	64 - 107
ENDOSULFAN SULFATE	0.0971	0	0.084	87	0.076	78	10	30	17 - 134
ENDRIN	0.0971	0	0.090	93	0.085	88	6	30	39 - 146
ENDRIN ALDEHYDE	0.0971	0	0.026	27	0.030	31	14	30	10 - 115
ENDRIN KETONE	0.0971	0	0.084	87	0.082	84	2	30	70 - 130
HEPTACHLOR	0.0971	0	0.100	103	0.098	101	2	30	37 - 123
HEPTACHLOR EPOXIDE	0.0971	0	0.096	99	0.097	100	1	30	70 - 130
HEXACHLOROBENZENE	0.243	0	0.200	82	0.190	78	5	30	50 - 150
METHOXYCHLOR	0.971	0	0.460	47	0.420	43	9	30	62 - 130
4,4'-TDE (DDD)	0.0971	0	0.075	77	0.070	72	7	30	63 - 107

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
WATER

Spiked Order No. : 1112529

Dup Spiked Order No. : 1112530

Client ID:

Test: 8081A.NEVA

Analytical Units: UG/L

Run Number : 163012

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		BLANK SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
ALDRIN	0.20	0	0.140	70	0.150	75	7	30	50 - 130
ALPHA-BHC	0.20	0	0.200	100	0.200	100	0	30	50 - 130
BETA-BHC	0.20	0	0.210	105	0.200	100	5	30	50 - 130
GAMMA-BHC	0.20	0	0.190	95	0.190	95	0	30	50 - 130
DELTA-BHC	0.20	0	0.170	85	0.170	85	0	30	50 - 130
ALPHA-CHLORDANE	0.20	0	0.170	85	0.180	90	6	30	50 - 130
GAMMA-CHLORDANE	0.20	0	0.180	90	0.180	90	0	30	50 - 130
4,4'-DDE	0.20	0	0.160	80	0.170	85	6	30	50 - 130
4,4'-DDT	0.20	0	0.180	90	0.160	80	12	30	50 - 130
DIELDRIN	0.20	0	0.190	95	0.190	95	0	30	50 - 130
ALPHA-ENDOSULFAN	0.20	0	0.200	100	0.200	100	0	30	50 - 130
BETA-ENDOSULFAN	0.20	0	0.190	95	0.190	95	0	30	50 - 130
ENDOSULFAN SULFATE	0.20	0	0.180	90	0.180	90	0	30	50 - 130
ENDRIN	0.20	0	0.190	95	0.190	95	0	30	50 - 130
ENDRIN ALDEHYDE	0.20	0	0.160	80	0.150	75	6	30	50 - 130
ENDRIN KETONE	0.20	0	0.180	90	0.180	90	0	30	50 - 130
HEPTACHLOR	0.20	0	0.180	90	0.190	95	5	30	50 - 130
HEPTACHLOR EPOXIDE	0.20	0	0.190	95	0.190	95	0	30	50 - 130
HEXACHLOROBENZENE	0.50	0	0.400	80	0.410	82	2	30	50 - 130
METHOXYCHLOR	1.0	0	1.00	100	1.00	100	0	30	50 - 130
4,4'-TDE (DDD)	0.20	0	0.180	90	0.180	90	0	30	50 - 130

Method Blank Summary

Lab Name: Columbia Analytical *Contract:* ENSR
Lab Code: 10145 *Case.No.:* R2844650 *SAS No.:* _____ *SDG* M-44B
Lab Sample 1112528 1. *Lab File ID:* EX884.D
Matrix: WATER *Level: (low/med)*
Date extracted: 06/25/08 *Extraction: (Sepf/Cont/Sonc)* Sepf
Date analyzed: (1) 6/26/2008 *Date analyzed:* (2) 6/26/2008
Time analyzed: (1) 18:40 *Time analyzed:* (2) 18:40
Instrument ID: (1) 6890D *Instrument ID:* (2) 6890D
GC Column(1) (1) STx-CLP *GC* (2) STx-CLPII

This Method Blank Applies to the Following Sample, MS, and MSD:

<i>EPA Sample No.</i>	<i>Lab Sample No.</i>	<i>Date Analyzed 1</i>	<i>Date Analyzed 2</i>
M-44B	1112065 1.	6/26/2008	6/26/2008
H-49AB	1112066 1.	6/26/2008	6/26/2008
FB062408GWAREA1	1112067 1.	6/26/2008	6/26/2008
PBLK1MS	1112529 1.	6/26/2008	6/26/2008
PBLK1MSD	1112530 1.	6/26/2008	6/26/2008

Method Blank Summary

Lab Name:	<u>Columbia Analytical</u>	Contract:	<u>ENSR</u>		
Lab Code:	<u>10145</u>	Case.No.:	<u>R2844650</u>	SAS No.:	<u> </u> SDG <u>M-44B</u>
Lab Sample	<u>1113455 1.0</u>	Lab File ID:	<u>EX912.D</u>		
Matrix:	<u>WATER</u>	Level:	<u>(low/med)</u>		
Date extracted:	<u>06/27/08</u>	Extraction:	<u>(Sepf/Cont/Sonc) Sepf</u>		
Date analyzed:	<u>(1) 6/30/2008</u>	Date analyzed:	<u>(2) 6/30/2008</u>		
Time analyzed:	<u>(1) 12:29</u>	Time analyzed:	<u>(2) 12:29</u>		
Instrument ID:	<u>(1) 6890D</u>	Instrument ID:	<u>(2) 6890D</u>		
GC Column(1)	<u>(1) STx-CLP</u>	GC	<u>(2) STx-CLPII</u>		

This Method Blank Applies to the Following Sample, MS, and MSD:

<i>EPA Sample No.</i>	<i>Lab Sample No.</i>	<i>Date Analyzed 1</i>	<i>Date Analyzed 2</i>
PBLK2MS	1113456 1.0	6/30/2008	6/30/2008
PBLK2MSD	1113457 1.0	6/30/2008	6/30/2008
MC-45B	1112486 1.0	6/30/2008	6/30/2008
MC-53B	1112487 1.0	6/30/2008	6/30/2008
M-23B	1112488 1.0	6/30/2008	6/30/2008
MC-97B	1112489 1.0	6/30/2008	6/30/2008
MC-94B	1112809 1.	6/30/2008	6/30/2008
MW-16B	1112810 1.	6/30/2008	6/30/2008
M-5AB	1112811 1.	6/30/2008	6/30/2008
EB062608GW3	1112812 1.	6/30/2008	6/30/2008
M-61B	1112871 1.	6/30/2008	6/30/2008
M-88BB	1112872 1.	6/30/2008	6/30/2008
M-7BB	1112874 1.	7/1/2008	7/1/2008
M-7BB MS	1113458 1.	7/1/2008	7/1/2008
M-7BB MSD	1113459 1.	7/1/2008	7/1/2008
MC-45B D	1112486 50.0	7/14/2008	7/14/2008
MC-53B D	1112487 10.0	7/11/2008	7/11/2008
MC-97B D	1112489 20.0	7/11/2008	7/11/2008
MC-94B D	1112809 10.0	7/11/2008	7/11/2008
MW-16B D	1112810 10.0	7/11/2008	7/11/2008
M-5AB D	1112811 10.0	7/11/2008	7/11/2008

Method Blank Summary

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1117894 1.0 **Lab File ID:** EY134.D
Matrix: WATER **Level:** (low/med)
Date extracted: 07/01/08 **Extraction:** (Sepf/Cont/Sonc) Sepf
Date analyzed: (1) 7/16/2008 **Date analyzed:** (2) 7/16/2008
Time analyzed: (1) 16:26 **Time analyzed:** (2) 16:26
Instrument ID: (1) 6890D **Instrument ID:** (2) 6890D
GC Column(1) (1) STx-CLP **GC Column(2)** (2) STx-CLPII

This Method Blank Applies to the Following Sample, MS, and MSD:

<i>EPA Sample No.</i>	<i>Lab Sample No.</i>	<i>Date Analyzed 1</i>	<i>Date Analyzed 2</i>
PBLK3MS	1117895 1.0	7/16/2008	7/16/2008
PBLK3MSD	1117896 1.0	7/16/2008	7/16/2008
M-67B	1113426 1.0	7/16/2008	7/16/2008
M-6AB	1113427 1.0	7/16/2008	7/16/2008
M-57AB	1113428 1.0	7/16/2008	7/16/2008
M-95B	1113429 1.0	7/16/2008	7/16/2008
M-68B	1113430 1.0	7/16/2008	7/16/2008

DETECTION LIMIT STUDY

METHOD	8081
MATRIX	WATER
SAMPLE PREP METHOD	3510
INSTRUMENT ID.	6890-D
DETECTOR	ECD
COLUMN	STX-CLP

MDL IDL

DATE: 9/25/2007

ANALYST: Meghan Pedro

Compound/Analyte	Spike Conc. (ug/L)	Trial # 1	Trial # 2	Trial # 3	Trial # 4	Trial # 5	Trial # 6	Trial # 7	Trial # 8	Mean (ug/L)	Std. Dev.	CALC. MDL (ug/L)	MRL** (ug/L)
1 4,4'-DDD	0.02	0.0198	0.0190	0.0191	0.0212	0.0239	0.0213	0.0198	0.0237	0.0206	0.0017	0.0052	0.10
2 4,4'-DDE	0.02	0.0190	0.0187	0.0185	0.0193	0.0214	0.0195	0.0186	0.0195	0.0193	0.0010	0.0030	0.10
3 4,4'-DDT	0.02	0.0201	0.0169	0.0171	0.0190	0.0204	0.0212	0.0177	0.0179	0.0189	0.0017	0.0052	0.10
4 Aldrin	0.02	0.0146	0.0145	0.0147	0.0142	0.0143	0.0144	0.0131	0.0120	0.0143	0.0006	0.0017	0.05
5 Alpha-BHC	0.02	0.0161	0.0159	0.0166	0.0159	0.0160	0.0160	0.0151	0.0159	0.0159	0.0005	0.0014	0.05
6 Alpha-Endosulfan	0.02	0.0188	0.0186	0.0190	0.0185	0.0193	0.0194	0.0181	0.0196	0.0188	0.0005	0.0014	0.05
7 Alpha-Chlordane	0.02	0.0201	0.0196	0.0196	0.0195	0.0216	0.0207	0.0194	0.0209	0.0201	0.0008	0.0024	0.05
8 Beta-BHC	0.02	0.0224	0.0224	0.0229	0.0227	0.0233	0.0235	0.0217	0.0232	0.0227	0.0006	0.0018	0.05
9 Beta-Endosulfan	0.02	0.0196	0.0212	0.0207	0.0201	0.0207	0.0204	0.0191	0.0208	0.0203	0.0007	0.0022	0.10
10 Chlordane	0.25	0.2467	0.2275	0.1551	0.1871	0.2480	0.2403	0.2555	0.2608	0.2276	0.0373	0.1118	0.25
11 Delta-BHC	0.02	0.0163	0.0164	0.0168	0.0163	0.0175	0.0170	0.0157	0.0173	0.0166	0.0006	0.0018	0.05
12 Dieldrin	0.02	0.0201	0.0189	0.0190	0.0201	0.0254	0.0215	0.0210	0.0218	0.0208	0.0022	0.0066	0.10
13 Endosulfan Sulfate	0.02	0.0200	0.0192	0.0205	0.0192	0.0202	0.0200	0.0184	0.0200	0.0196	0.0007	0.0022	0.10
14 Endrin	0.02	0.0191	0.0181	0.0183	0.0187	0.0230	0.0199	0.0193	0.0203	0.0195	0.0017	0.0050	0.10
15 Endrin Aldehyde	0.02	0.0076	0.0058	0.0059	0.0066	0.0093	0.0068	0.0092	0.0083	0.0073	0.0014	0.0043	0.10
16 Endrin Ketone	0.02	0.0194	0.0193	0.0190	0.0197	0.0227	0.0241	0.0193	0.0208	0.0205	0.0020	0.0061	0.10
17 Famphur	1.0	0.7150	0.7546	0.7395	0.7683	0.7625	0.7436	0.7398	0.72038	0.74617	0.0178	0.0533	1.0
18 Gamma-BHC	0.02	0.0170	0.0169	0.0175	0.0169	0.0171	0.0173	0.0161	0.0171	0.0170	0.0004	0.0013	0.05
19 Gamma-Chlordane	0.02	0.0188	0.0188	0.0189	0.0187	0.0192	0.0193	0.0178	0.0191	0.0188	0.0005	0.0014	0.05
20 Heptachlor	0.02	0.0177	0.0173	0.0176	0.0175	0.0179	0.0177	0.0163	0.0158	0.0174	0.0005	0.0016	0.05
21 Heptachlor E	0.02	0.0194	0.0193	0.0197	0.0194	0.0193	0.0195	0.0184	0.0197	0.0193	0.0004	0.0012	0.05
22 Hexachlorobenzene	0.050	0.0539	0.0532	0.0551	0.0563	0.0527	0.0540	0.0482	0.0470	0.05335	0.0025	0.0076	0.05
23 Kepone	5.0	4.0250	4.0558	4.0321	4.0549	4.0776	3.8710	3.4729	3.6527	3.94132	0.2176	0.6529	5.0
24 Methoxychlor	0.10	0.0981	0.0949	0.0979	0.0976	0.1009	0.1010	0.0954	0.1034	0.0980	0.0024	0.0071	0.50
1 Toxaphene	1.0	1.0272	1.0421	1.1694	1.0031	0.8421	0.8611	0.8387	0.7823	0.9457	0.1338	0.4014	1.0

DETECTION LIMIT STUDY

METHOD	8081
MATRIX	WATER
SAMPLE PREP METHOD	3510
INSTRUMENT ID	6890-D
DETECTOR	ECD
COLUMN	STX-CLP#1

MDL IDL

DATE 9/25/2007

ANALYST Meghann Pedro

Compound/Analyte	Spike Conc. (ug/L)								Mean (ug/L)	Std. Dev. (ug/L)	CALC. MDL (ug/L)	MRL** (ug/L)
	Trial # 1	Trial # 2	Trial # 3	Trial # 4	Trial # 5	Trial # 6	Trial # 7	Trial # 8				
1 4,4'-DDD	0.02	0.0201	0.0205	0.0207	0.0220	0.0217	0.0204	0.0226	0.0210	0.0007	0.0022	0.10
2 4,4'-DDE	0.02	0.0213	0.0202	0.0204	0.0238	0.0206	0.0207	0.0224	0.0211	0.0013	0.0038	0.10
3 4,4'-DDT	0.02	0.0230	0.0207	0.0223	0.0331	0.0244	0.0228	0.0256	0.0237	0.0044	0.0133	0.10
4 Aldrin	0.02	0.0172	0.0171	0.0168	0.0172	0.0169	0.0152	0.0141	0.0168	0.0007	0.0022	0.05
5 Alpha-BHC	0.02	0.0178	0.0176	0.0181	0.0173	0.0176	0.0163	0.0174	0.0178	0.0010	0.0031	0.05
6 Alpha-Endosulfan	0.02	0.0213	0.0210	0.0211	0.0204	0.0210	0.0206	0.0221	0.0211	0.0006	0.0017	0.05
7 Alpha-Chlordane	0.02	0.0205	0.0204	0.0199	0.0208	0.0203	0.0194	0.0206	0.0202	0.0004	0.0013	0.05
8 Beta-BHC	0.02	0.0211	0.0216	0.0214	0.0214	0.0218	0.0204	0.0209	0.0213	0.0005	0.0015	0.05
9 Beta-Endosulfan	0.02	0.0237	0.0264	0.0228	0.0296	0.0298	0.0238	0.0247	0.0260	0.0028	0.0084	0.10
10 Chlordane	0.25	0.2491	0.2365	0.1967	0.2535	0.2638	0.2761	0.2873	0.2410	0.0411	0.1232	0.25
11 Deltachlor	0.02	0.0138	0.0133	0.0133	0.0155	0.0149	0.0134	0.0145	0.0140	0.0009	0.0026	0.05
12 Dieldrin	0.02	0.0242	0.0230	0.0230	0.0309	0.0242	0.0257	0.0267	0.0248	0.0029	0.0087	0.10
13 Endosulfan Sulfate	0.02	0.0204	0.0203	0.0207	0.0209	0.0205	0.0201	0.0216	0.0205	0.0003	0.0008	0.10
14 Endrin	0.02	0.0206	0.0204	0.0203	0.0214	0.0207	0.0207	0.0212	0.0207	0.0004	0.0011	0.10
15 Endrin Aldehyde	0.02	0.0251	0.0130	0.0269	0.0695	0.0383	0.0241	0.0279	0.0300	0.0195	0.0584	0.10
16 Endrin Ketone	0.02	0.0215	0.0292	0.0274	0.0219	0.0216	0.0238	0.0230	0.0251	0.0038	0.0113	0.10
17 Famphur	1.0	0.7345	0.8148	0.8502	0.7777	0.8187	0.7589	0.72531	0.78786	0.04106	0.1232	1.0
18 Gamma-BHC	0.02	0.0180	0.0184	0.0178	0.0178	0.0182	0.0170	0.0180	0.0179	0.0004	0.0013	0.05
19 Gamma-Chlordane	0.02	0.0222	0.0218	0.0238	0.0231	0.0239	0.0222	0.0222	0.0227	0.0008	0.0025	0.05
20 Heptachlor	0.02	0.0211	0.0216	0.0217	0.0211	0.0218	0.0202	0.0195	0.0212	0.0006	0.0017	0.05
21 Heptachlor E	0.02	0.0242	0.0235	0.0240	0.0252	0.0243	0.0238	0.0249	0.0240	0.0006	0.0018	0.05
22 Hexachlorobenzene	0.05	0.0493	0.0483	0.0492	0.0482	0.0504	0.0434	0.0434	0.0484	0.0024	0.0072	0.05
23 Kepone	5.0	6.4669	6.7480	6.6614	6.8935	6.7852	6.3811	6.6288	6.67675	0.1875	0.5625	5.0
24 Methoxychlor	0.10	0.1058	0.0999	0.1037	0.1070	0.1060	0.1030	0.1109	0.1040	0.0025	0.0075	0.50
1 Toxaphene	1.0	1.1593	1.1735	1.1250	0.9799	1.0548	1.0204	0.9350	1.0674	0.0855	0.2564	1.0

PESTICIDES
SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-44B

Date Sampled : 06/24/08 09:10 Order #: 1112065 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650 Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/25/08		
DATE ANALYZED	: 06/26/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.047	0.048	UG/L
ALPHA-BHC	0.047	0.047 U	UG/L
BETA-BHC	0.047	0.047 U	UG/L
GAMMA-BHC	0.047	0.047 U	UG/L
DELTA-BHC	0.047	0.047 U	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.047 U	UG/L
HEXACHLOROBENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	86	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	89	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex881.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 4:53 pm
 Operator : M.PEDRO
 Sample : 1112065 1.
 Misc : 06/25/08 212 ensr r44650 8081
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:27:20 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

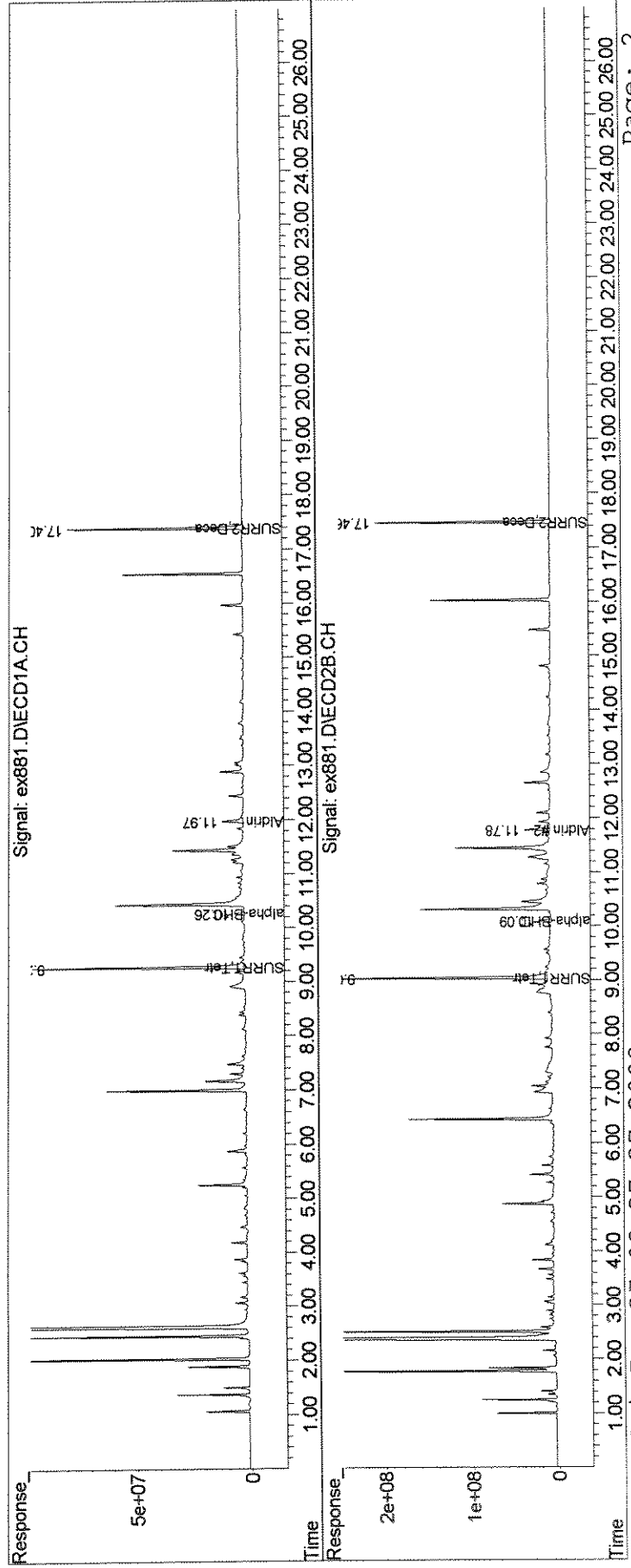
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1683.6E6	5006.8E6	89.395m	82.057m
Spiked Amount	100.000	Range 30 - 150	Recovery =		89.39%	82.06%
25) S SURR2,Decachloro	17.40	17.46	1469.6E6	3348.4E6	86.043	76.709
Spiked Amount	100.000	Range 30 - 150	Recovery =		86.04%	76.71%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	84278133	304.4E6	2.806m	3.292m
6) tcm Aldrin	11.97	11.78	222.5E6	765.6E6	9.040m	10.215m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\062608\
 Data File : ex881.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 4:53 pm
 Operator : M.PEDRO
 Sample : 1112065 1.
 Misc : 06/25/08 212 ensr r44650 8081
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:27:20 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

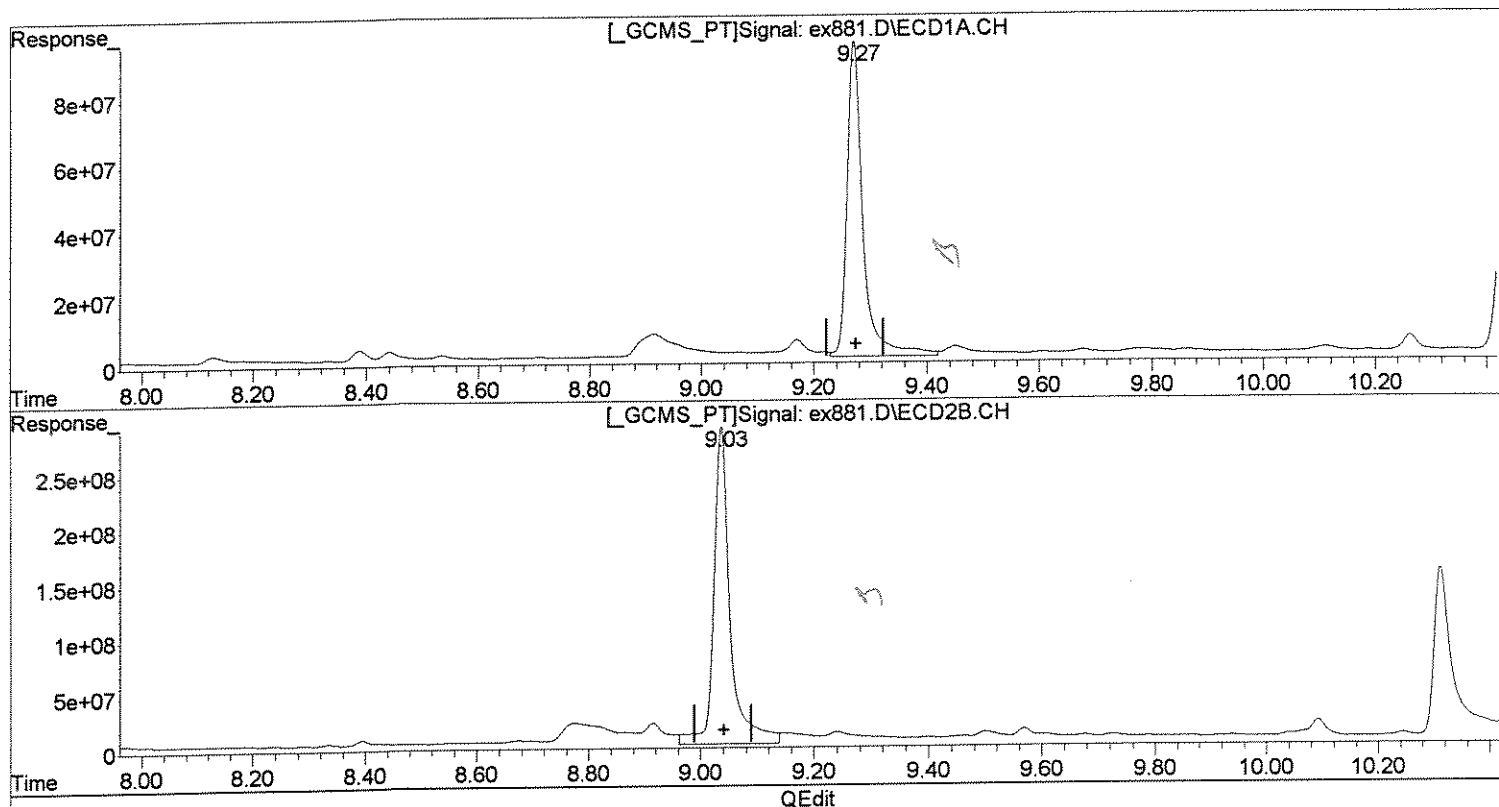


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex881.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:53 pm
Operator : M.PEDRO
Sample : 1112065 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:24 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
9.27min 97.767ug/l
response 1841280819

(1) SURR1,Tetrac #2 (S)
9.04min 94.812ug/l
response 5785075134

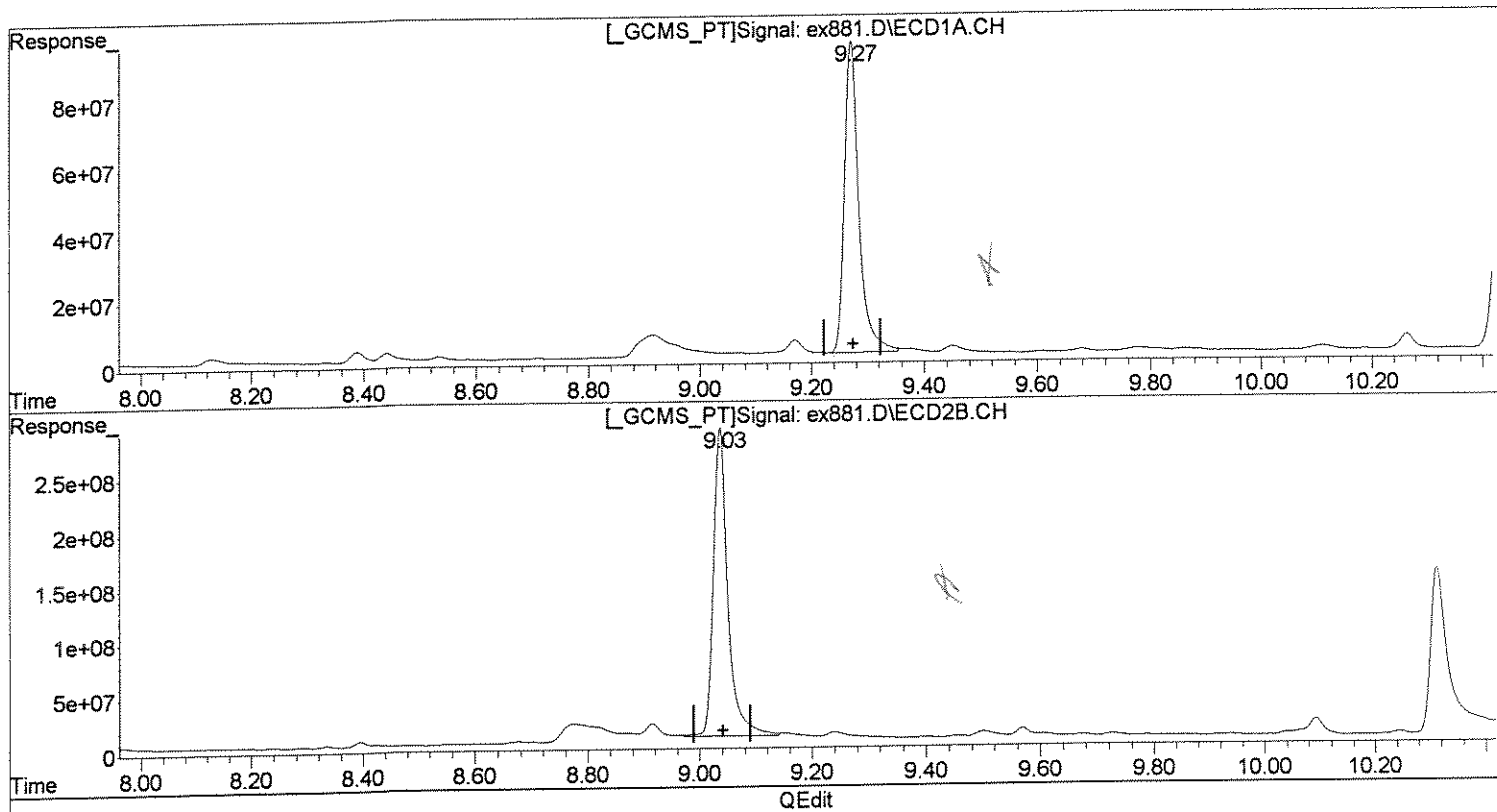
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex881.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:53 pm
Operator : M.PEDRO
Sample : 1112065 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:24 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
9.27min 89.395ug/l m
response 1683612804

(1) SURR1,Tetrac #2 (S)
9.03min 82.057ug/l m
response 5006756231

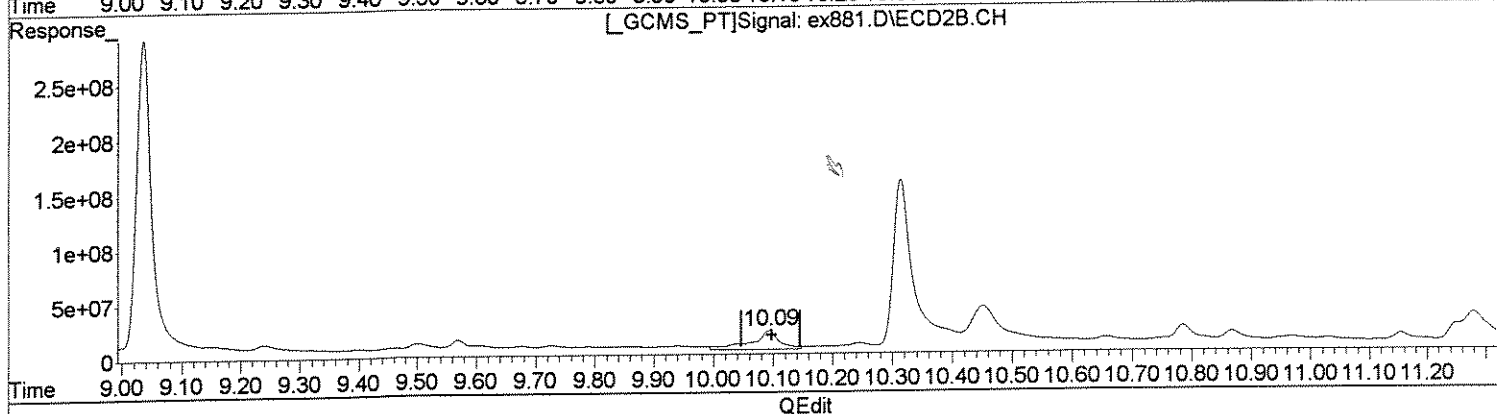
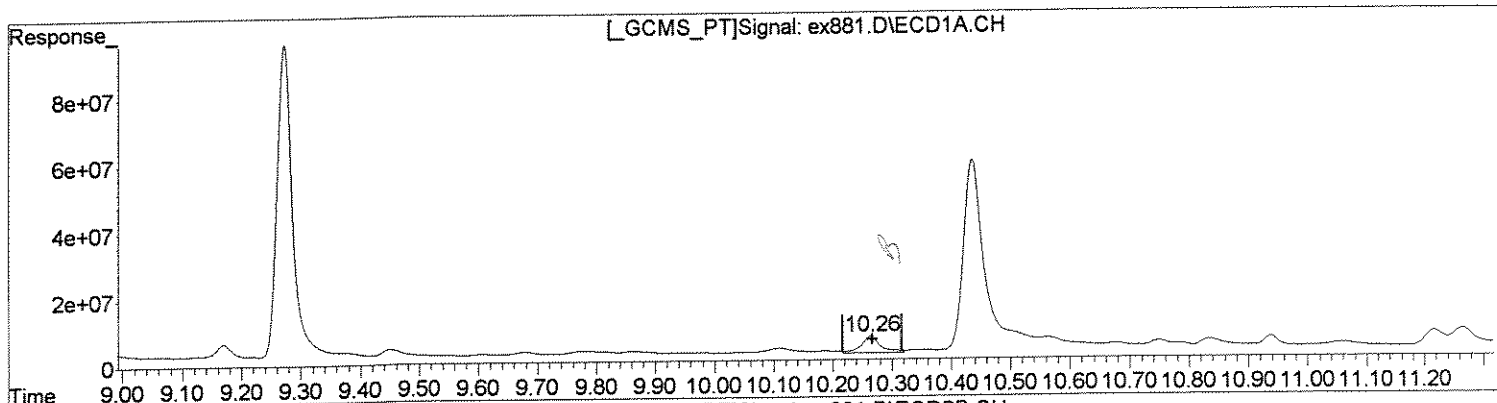
Handwritten notes:
MAY 11/27
LH

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex881.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:53 pm
Operator : M.PEDRO
Sample : 1112065 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:24 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 3.919ug/l
response 117688649

(3) alpha-BHC #2 (tc)
10.09min 6.337ug/l
response 585993290

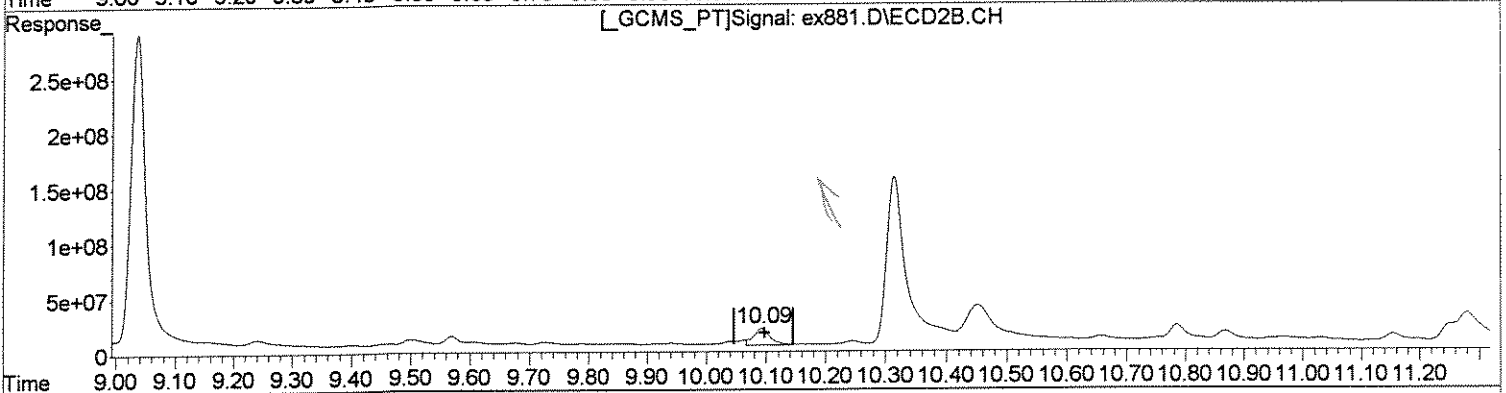
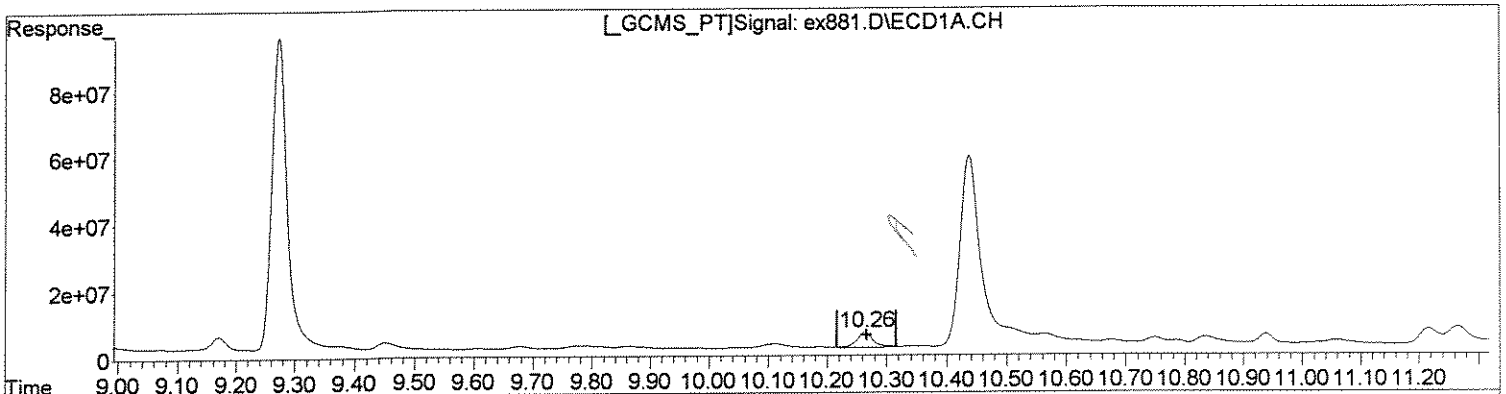
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex881.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:53 pm
Operator : M.PEDRO
Sample : 1112065 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:24 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 2.806ug/l m
response 84278133

(3) alpha-BHC #2 (tc)
10.09min 3.292ug/l m
response 304374941

MW
11/7
10/27

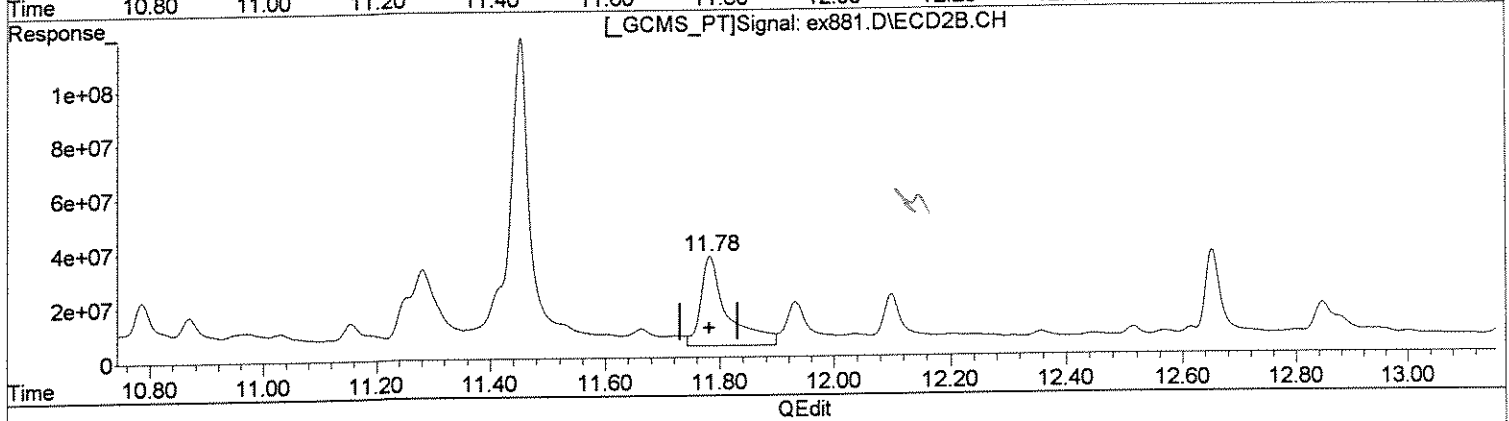
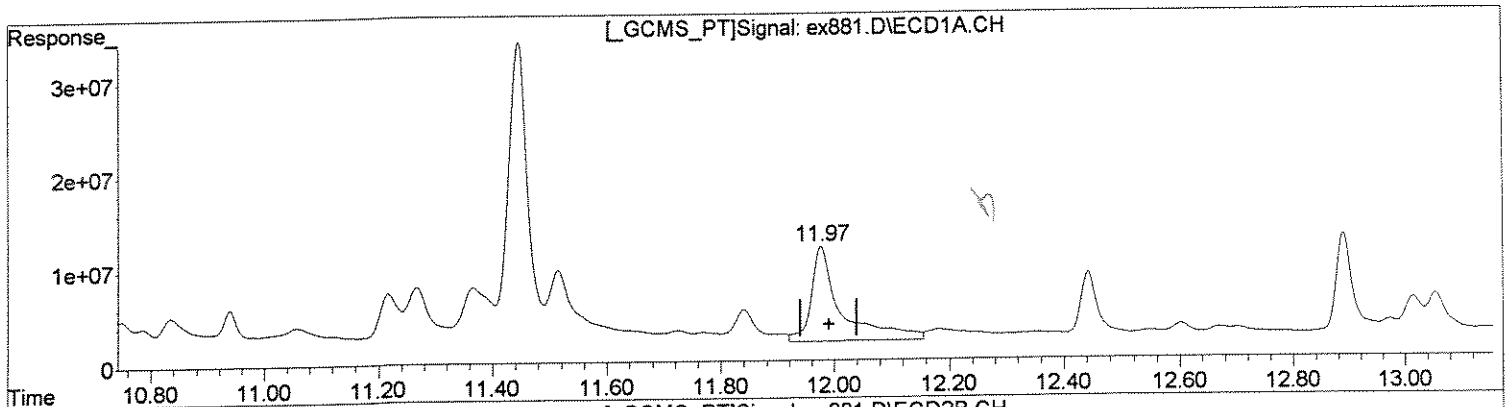
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex881.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:53 pm
Operator : M.PEDRO
Sample : 1112065 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:24 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(6) Aldrin (tcm)
11.98min 14.959ug/l
response 368191387

(6) Aldrin #2 (tcm)
11.78min 13.894ug/l
response 1041308051

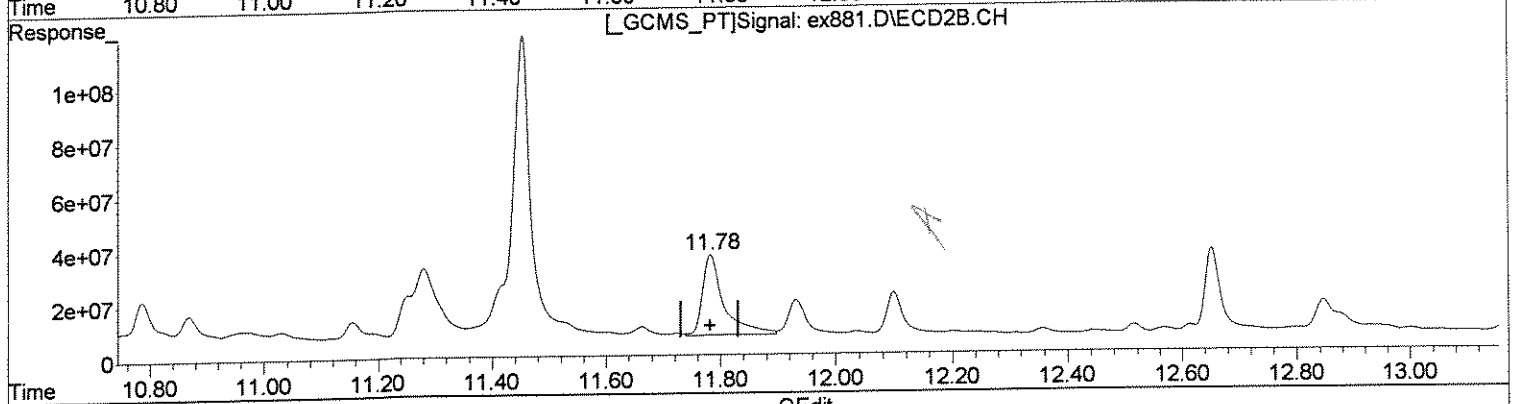
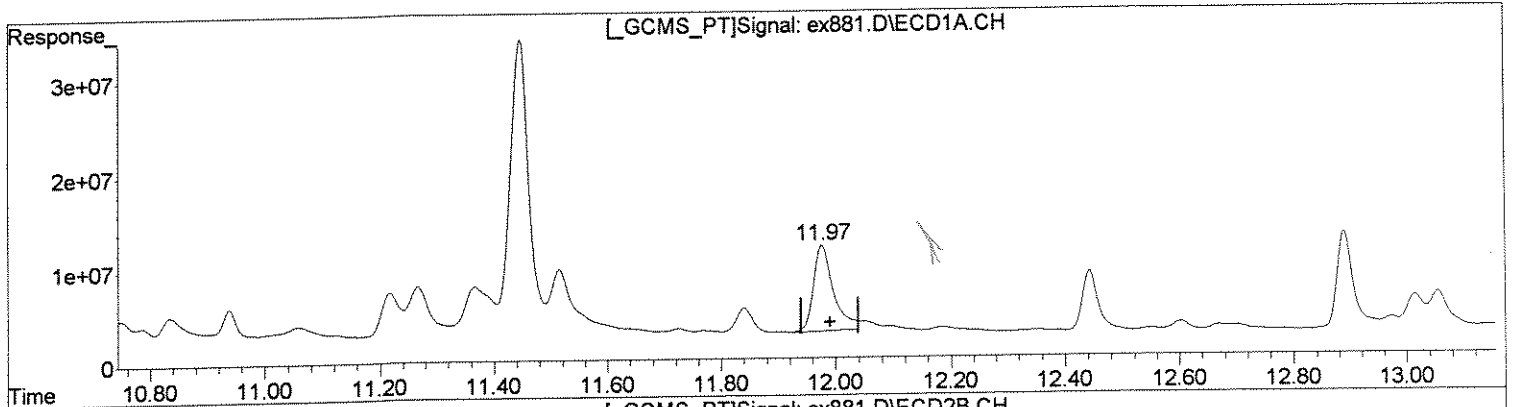
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex881.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:53 pm
Operator : M.PEDRO
Sample : 1112065 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:24 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(6) Aldrin (tcm)
11.97min 9.040ug/l m
response 222497458

(6) Aldrin #2 (tcm)
11.78min 10.215ug/l m
response 765603982

MW 467
MW 467

(+) = Expected Retention Time

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX881.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 4:53 pm
 Operator : M.PEDRO
 Sample : 1112065 1.
 Misc : 06/25/08 212 ensr r44650 8081
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:24 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1841.3E6	5785.1E6	97.767	94.812
Spiked Amount	100.000	Range 30 - 150	Recovery =		97.77%	94.81%
25) S SURR2,Decachloro	17.40	17.46	1469.6E6	3348.4E6	86.043	76.709
Spiked Amount	100.000	Range 30 - 150	Recovery =		86.04%	76.71%
Target Compounds						
2) TC HEXACHLORO BENZEN	9.96	9.84	33362460	146.9E6	1.228	1.669 #
3) tc alpha-BHC	10.26	10.09	117.7E6	586.0E6	3.919	6.337 #
4) tcm gamma-BHC (L	10.78	10.66	39766790	324.5E6	1.447	3.950 #
5) tcm Heptachlor	11.51	0.00	339.3E6	0	12.610	N.D. #
6) tcm Aldrin	11.98	11.78	368.2E6	1041.3E6	14.959	13.894
7) tc beta-BHC	10.94	0.00	115.1E6	0	9.969	N.D. #
8) tc delta-BHC	11.22	11.28	136.8E6	1222.0E6	4.946	14.706 #
9) tc Heptachlor E	12.89	12.61	248.0E6	70967360	10.762	1.056 #
10) tc alpha-Endosu	0.00	13.17	0	196.0E6	N.D.	3.289 #
12) tc alpha-Chlord	0.00	13.11	0	43917406	N.D.	0.661 #
13) tc 4,4'-DDE	13.37	13.35	35379582	117.8E6	1.574	1.808
14) tcm Dieldrin	0.00	13.56	0	44990219	N.D.	0.689 #
15) tcm Endrin	14.17	13.98	66513133	73375302	3.189	1.294 #
16) tc KEPONE	0.00	14.15	0	31743105	N.D.	1.856 #
17) tc beta-Endosul	0.00	14.28	0	38480118	N.D.	0.702 #
18) tc 4,4'-DDD	0.00	14.15	0	31743105	N.D.	0.615 #
19) tcm 4,4'-DDT	0.00	14.58	0	85513889	N.D.	1.560 #
20) tc Endrin Aldeh	0.00	14.77	0	72046153	N.D.	1.791 #
21) tc Endosulfan S	15.78	15.18	4677507	12177982	0.258	0.245
23) tc FAMPHUR	0.00	15.32	0	31868163	N.D.	1.003 #
26) L8C Toxaphene	14.61	14.42	30143548	25523562	72.182	15.578 #
27) L8C Toxaphene {2}	0.00	14.70	0	59477996	N.D.	77.315 #
28) L8C Toxaphene {3}	0.00	14.81	0	272.6E6	N.D.	165.012 #
30) L8C Toxaphene {5}	16.35	16.31	14038570	20310479	20.793	11.661 #
Sum Toxaphene			44182118	377.9E6	92.974	269.566
Average Toxaphene					46.487	67.392

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX881.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 4:53 pm
 Operator : M.PEDRO
 Sample : 1112065 1.
 Misc : 06/25/08 212 ensr r44650 8081
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:24 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

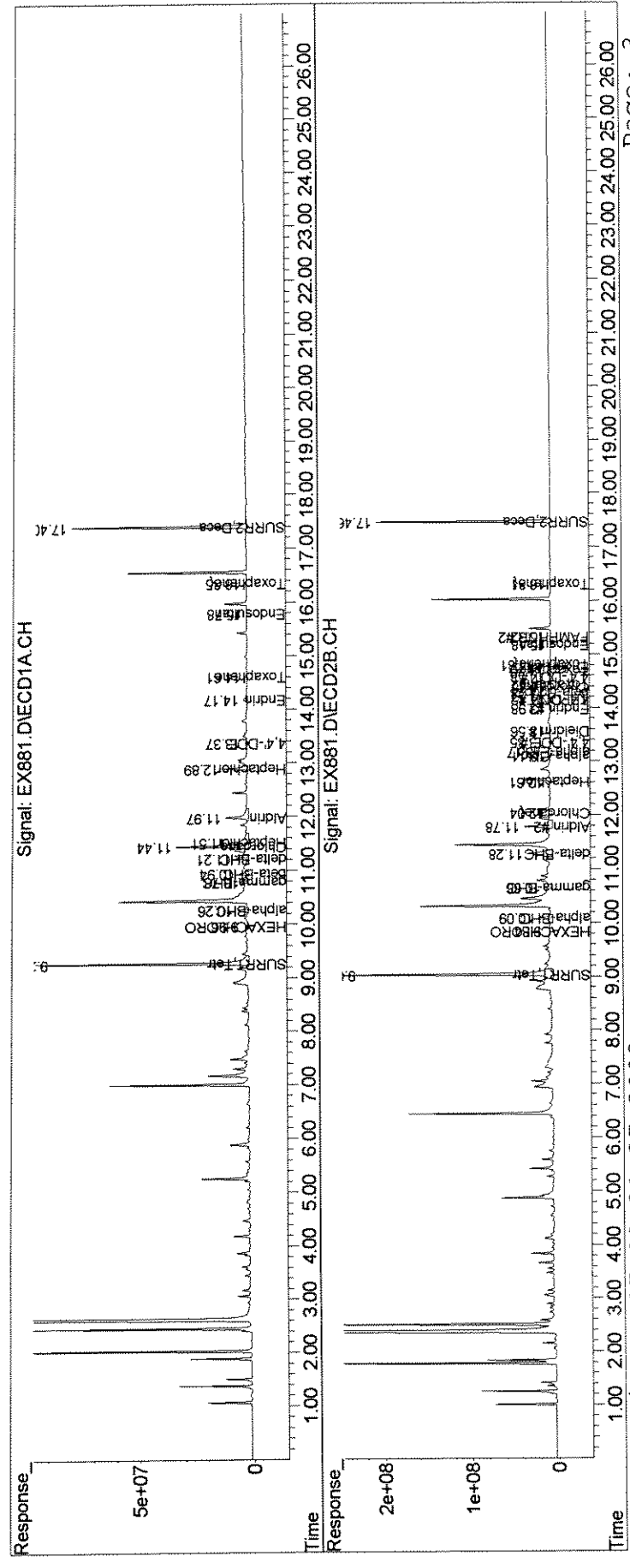
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) L9C Chlordane	11.44	0.00	773.1E6	0	1010.317	N.D. #
33) L9C Chlordane{3}	0.00	12.04	0	97940344	N.D.	35.277 #
35) L9C Chlordane{5}	0.00	14.38	0	29475280	N.D.	9.680 #
Sum Chlordane			773.1E6	127.4E6	1010.317	44.957
Average Chlordane					1010.317	22.479

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\062608\
Data File : EX881.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:53 pm
Operator : M.PEDRO
Sample : 1112065 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:24 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : H-49AB

Date Sampled : 06/24/08 09:00 Order #: 1112066 Sample Matrix: WATER
Date Received: 06/25/08 Submission #: R2844650 Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/25/08		
DATE ANALYZED	: 06/26/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.066	UG/L
BETA-BHC	0.047	0.047 U	UG/L
GAMMA-BHC	0.047	0.074	UG/L
DELTA-BHC	0.047	0.17	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.086	UG/L
HEXACHLOROBENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	85	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	84	%

Data Path : J:\ACQUADATA\6890D\DATA\062608\
 Data File : ex882.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 5:29 pm
 Operator : M.PEDRO
 Sample : 1112066 1.
 Misc : 06/25/08 212 ensr r44650 8081
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:41:34 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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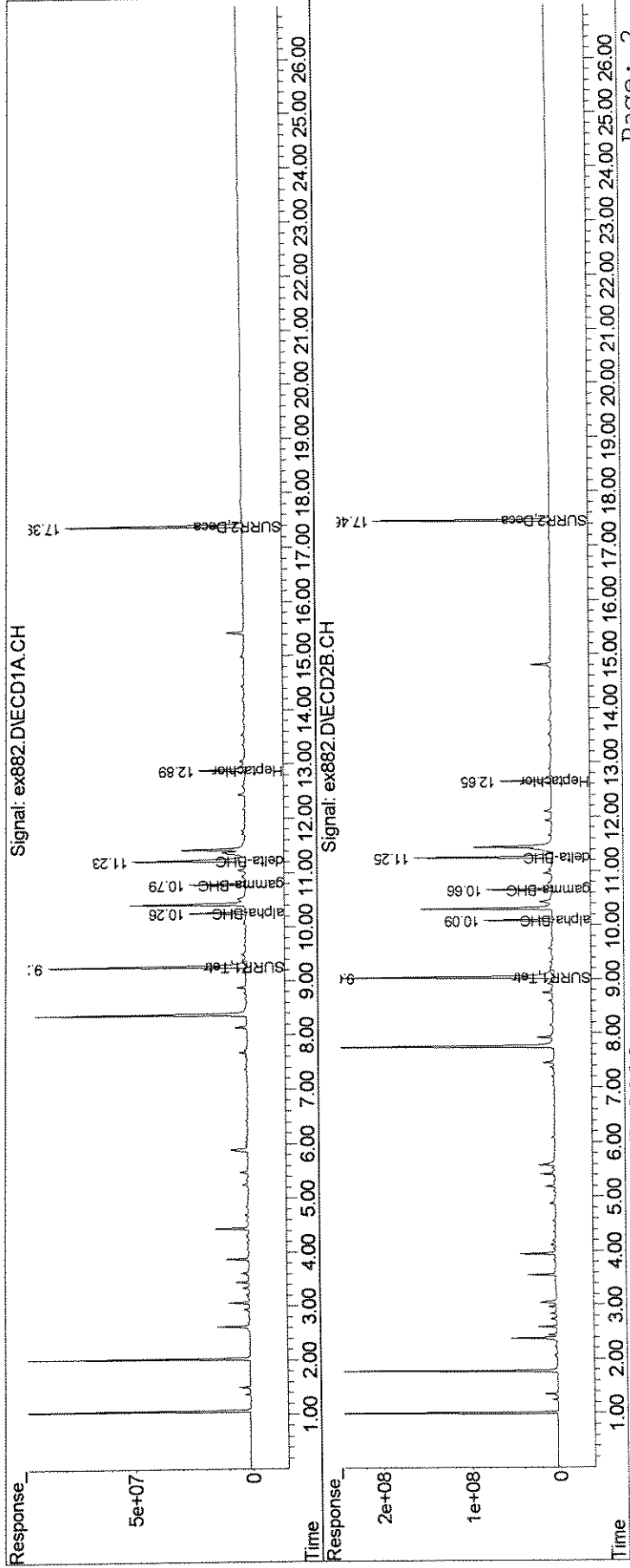
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1580.7E6	4763.0E6	83.929	78.062
Spiked Amount	100.000	Range	30 - 150	Recovery =	83.93%	78.06%
25) S SURR2,Decachloro	17.40	17.46	1456.1E6	3408.4E6	85.252	78.083
Spiked Amount	100.000	Range	30 - 150	Recovery =	85.25%	78.08%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	423.7E6	1279.9E6	14.108	13.841
4) tcm gamma-BHC (L	10.79	10.66	434.4E6	1209.9E6	15.803	14.726
8) tc delta-BHC	11.23	11.25	987.5E6	2976.5E6	35.707	35.821
9) tc Heptachlor E	12.89	12.65f	415.1E6	1226.1E6	18.016	18.248m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex882.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 5:29 pm
Operator : M.PEDRO
Sample : 1112066 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 09:41:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

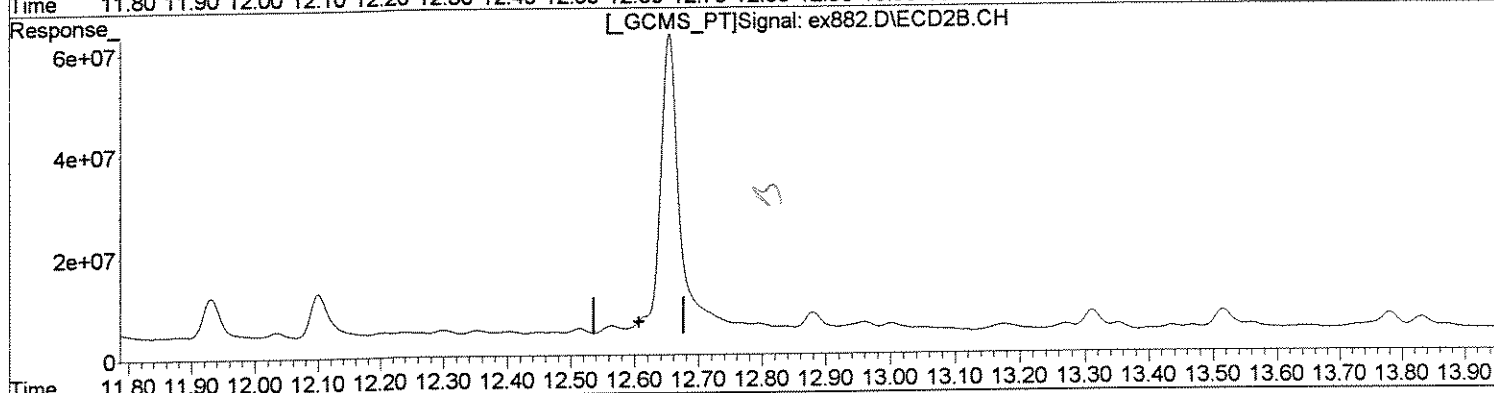
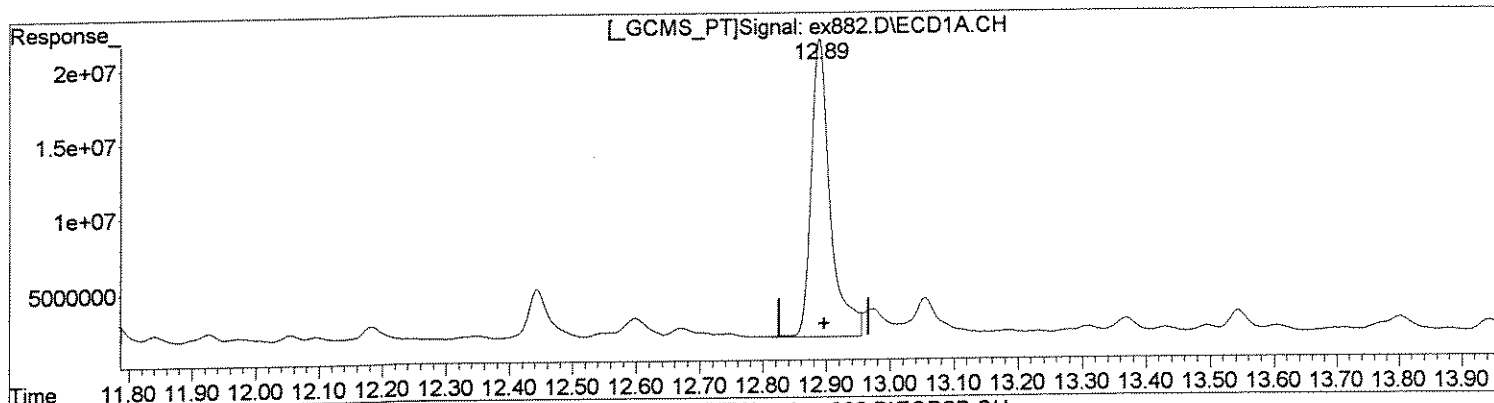


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex882.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 5:29 pm
Operator : M.PEDRO
Sample : 1112066 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:29 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
12.89min 18.016ug/l
response 415119076

(9) Heptachlor E #2 (tc)
0.00min 0.000ug/l d
response 0

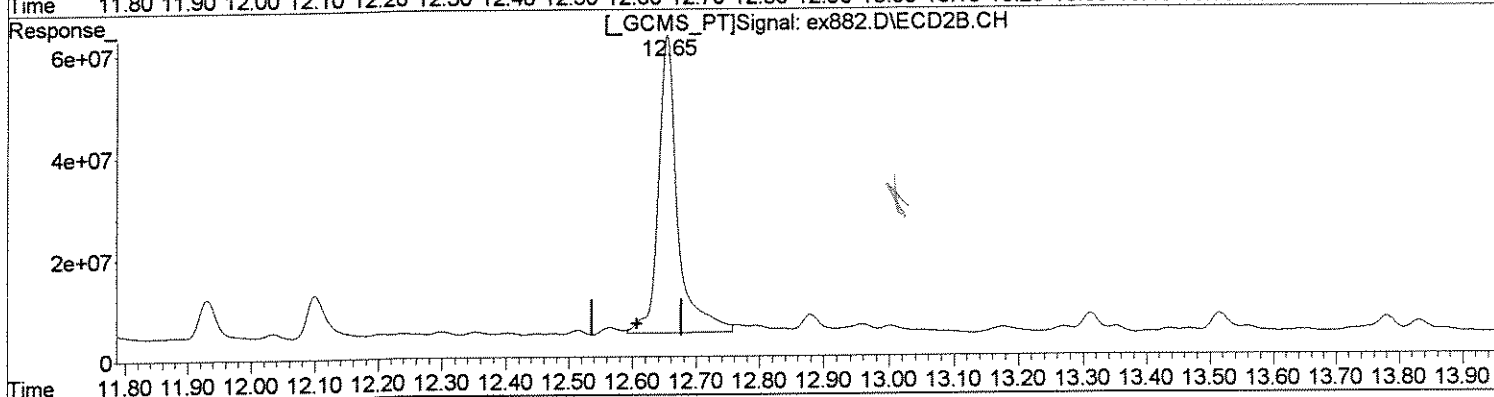
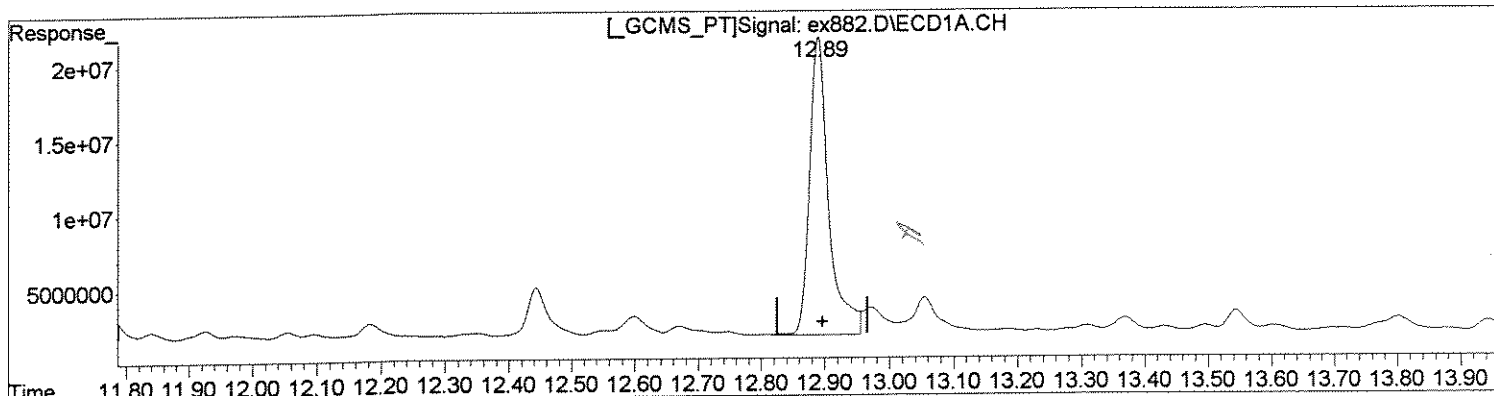
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Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex882.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 5:29 pm
Operator : M.PEDRO
Sample : 1112066 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:29 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
12.89min 18.016ug/l
response 415119076

(9) Heptachlor E #2 (tc)
12.65min 18.248ug/l m
response 1226118493

MW 1/1
Wag 12/18

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX882.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 5:29 pm
 Operator : M.PEDRO
 Sample : 1112066 1.
 Misc : 06/25/08 212 ensr r44650 8081
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:29 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1580.7E6	4763.0E6	83.929	78.062
Spiked Amount	100.000	Range 30 - 150	Recovery =		83.93%	78.06%
2) S SURR2,Decachloro	17.40	17.46	1456.1E6	3408.4E6	85.252	78.083
Spiked Amount	100.000	Range 30 - 150	Recovery =		85.25%	78.08%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	18459757	86102210	0.680	0.978 #
3) tc alpha-BHC	10.26	10.09	423.7E6	1279.9E6	14.108	13.841
4) tcm gamma-BHC (L	10.79	10.66	434.4E6	1209.9E6	15.803	14.726
6) tcm Aldrin	11.97	11.78	13622596	77363978	0.553	1.032 #
7) tc beta-BHC	0.00	10.82	0	79602236	N.D.	2.231 #
8) tc delta-BHC	11.23	11.25	987.5E6	2976.5E6	35.707	35.821
9) tc Heptachlor E	12.89	0.00	415.1E6	0	18.016	N.D. #
10) tc alpha-Endosu	13.50	13.18	10235362	68022049	0.497	1.142 #
11) tc gamma-Chlord	0.00	12.88	0	109.5E6	N.D.	1.571 #
13) tc 4,4'-DDE	13.37	13.35	25830362	29836686	1.149	0.458 #
14) tcm Dieldrin	13.80	13.56	35922657	38118956	1.543	0.584 #
15) tcm Endrin	0.00	13.98	0	21990489	N.D.	0.388 #
16) tc KEPONE	14.26	14.17	6785395	10574443	1.084	0.618 #
17) tc beta-Endosul	0.00	14.28	0	34301288	N.D.	0.625 #
18) tc 4,4'-DDD	14.26	0.00	6785395	0	0.361	N.D. #
19) tcm 4,4'-DDT	0.00	14.58	0	69541412	N.D.	1.269 #
20) tc Endrin Aldeh	15.13	14.77	5439609	58623463	0.368	1.457 #
21) tc Endosulfan S	15.78	15.18	8878185	8931538	0.489	0.180 #
22) tc Methoxychlor	15.36	15.54	2783530	1932914	0.282	0.080 #
24) tc Endrin Keton	0.00	15.94	0	2214513	N.D.	0.041 #
26) L8C Toxaphene	14.61	14.42	21522729	17295175	51.538	10.556 #
27) L8C Toxaphene {2}	0.00	14.70	0	15980241	N.D.	20.773 #
28) L8C Toxaphene {3}	15.29	14.81	3236228	425.1E6	4.525	257.330 #
29) L8C Toxaphene {4}	0.00	16.08	0	11845384	N.D.	7.282 #
30) L8C Toxaphene {5}	16.35	16.32	21235449	16258166	31.452	9.334 #
Sum Toxaphene			45994407	486.5E6	87.516	305.275

Data Path : J:\ACQUADATA\6890D\DATA\062608\
 Data File : EX882.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 5:29 pm
 Operator : M.PEDRO
 Sample : 1112066 1.
 Misc : 06/25/08 212 ensr r44650 8081
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:29 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average Toxaphene					29.172	61.055
31) L9C Chlordane	11.43	0.00	661.7E6	0	864.728	N.D. #
33) L9C Chlordane{3}	0.00	12.03	0	41125180	N.D.	14.813 #
Sum Chlordane			661.7E6	41125180	864.728	14.813
Average Chlordane					864.728	14.813

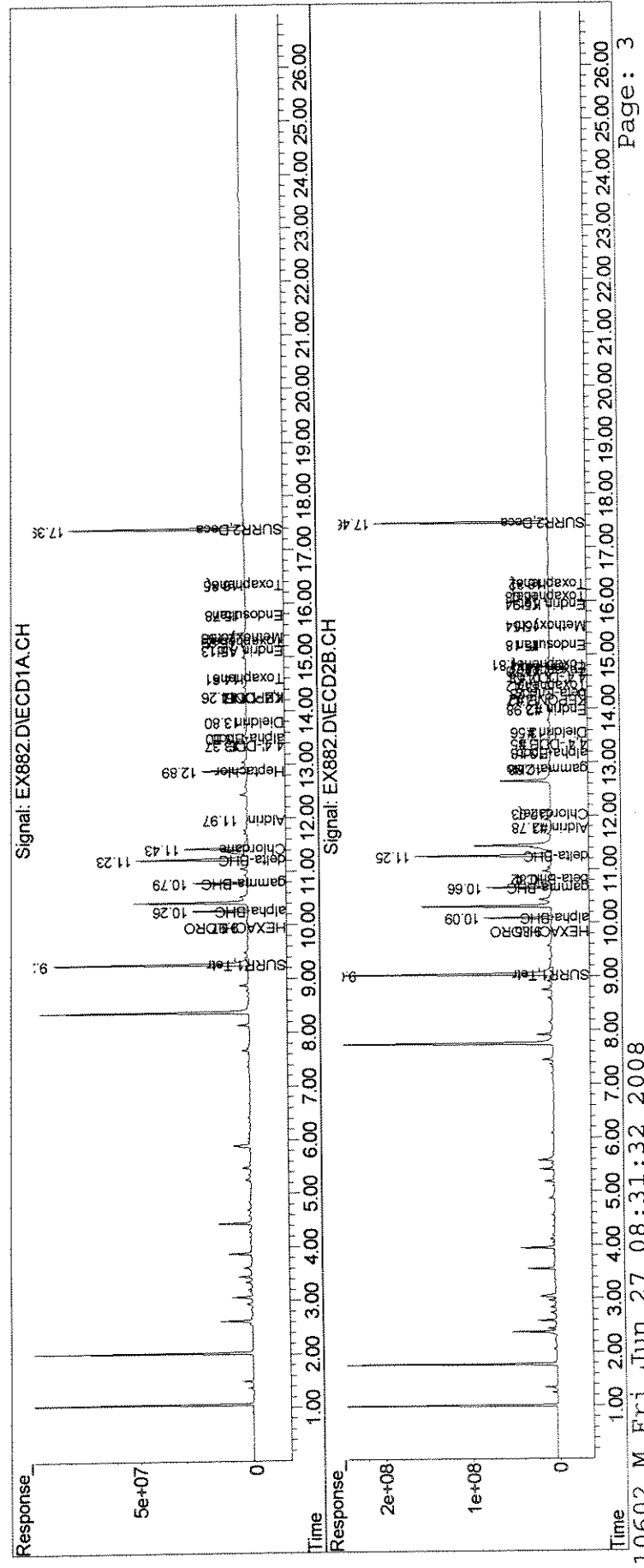
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : EX882.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 5:29 pm
Operator : M.PEDRO
Sample : 1112066 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:29 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : FB062408GWAREA1

Date Sampled : 06/24/08 12:00 Order #: 1112067 Sample Matrix: WATER
Date Received: 06/25/08 Submission #: R2844650 Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/25/08		
DATE ANALYZED	: 06/26/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.047 U	UG/L
BETA-BHC	0.047	0.047 U	UG/L
GAMMA-BHC	0.047	0.047 U	UG/L
DELTA-BHC	0.047	0.047 U	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.047 U	UG/L
HEXACHLORO BENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	48	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	85	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX883.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 6:04 pm
 Operator : M.PEDRO
 Sample : 1112067 1.
 Misc : 06/25/08 212 ensr r44650 8081
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:35 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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System Monitoring Compounds

1) S SURR1,Tetrac	9.27	9.03	1592.9E6	5114.3E6	84.580	83.820
Spiked Amount	100.000	Range	30 - 150	Recovery =	84.58%	83.82%
25) S SURR2,Decachloro	17.40	17.46	820.5E6	1932.4E6	48.040	44.270
Spiked Amount	100.000	Range	30 - 150	Recovery =	48.04%	44.27%

Target Compounds

2) TC HEXACHLOROBENZEN	9.96	9.85	8545365	65432915	0.315	0.744 #
3) tc alpha-BHC	10.26	10.11	109.0E6	59477236	3.628	0.643 #
4) tcm gamma-BHC (L	10.78	0.00	3082162	0	0.112	N.D. #
5) tcm Heptachlor	11.53	11.30	32824117	67342722	1.220	0.843 #
6) tcm Aldrin	0.00	11.78	0	22767155	N.D.	0.304 #
7) tc beta-BHC	0.00	10.81	0	75873355	N.D.	2.127 #
8) tc delta-BHC	11.24	0.00	8419033	0	0.304	N.D. #
9) tc Heptachlor E	12.89	12.61	21792726	60219682	0.946	0.896
11) tc gamma-Chlord	0.00	12.88	0	56453361	N.D.	0.810 #
13) tc 4,4'-DDE	13.37	13.35	76424777	43899124	3.399	0.674 #
14) tcm Dieldrin	0.00	13.56	0	26658624	N.D.	0.409 #
15) tcm Endrin	0.00	13.98	0	13001625	N.D.	0.229 #
17) tc beta-Endosul	0.00	14.28	0	25574136	N.D.	0.466 #
18) tc 4,4'-DDD	0.00	14.11	0	14629694	N.D.	0.283 #
19) tcm 4,4'-DDT	14.63	14.58	19987228	38157053	0.998	0.696 #
20) tc Endrin Aldeh	15.10	14.77	21846517	71607869	1.478	1.780
26) L8C Toxaphene	0.00	14.42	0	3565483	N.D.	2.176 #
27) L8C Toxaphene {2}	0.00	14.70	0	9900079	N.D.	12.869 #
29) L8C Toxaphene {4}	0.00	16.08	0	11005767	N.D.	6.766 #
30) L8C Toxaphene {5}	16.34	16.31	9644621	1977878	14.285	1.136 #
Sum Toxaphene			9644621	26449207	14.285	22.947
Average Toxaphene					14.285	5.737

31) L9C Chlordane	0.00	11.11	0	17411390	N.D.	6.913 #
33) L9C Chlordane {3}	0.00	12.03	0	38673321	N.D.	13.930 #
34) L9C Chlordane {4}	0.00	12.88	0	56453361	N.D.	7.134 #

Data Path : J:\ACQUADATA\6890D\DATA\062608\
 Data File : EX883.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 6:04 pm
 Operator : M.PEDRO
 Sample : 1112067 1.
 Misc : 06/25/08 212 ensr r44650 8081
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:35 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) L9C Chlordane{5}	0.00	14.39	0	5039159	N.D.	1.655 #
Sum Chlordane			0	117.6E6	N.D.	29.632
Average Chlordane					0.000	7.408

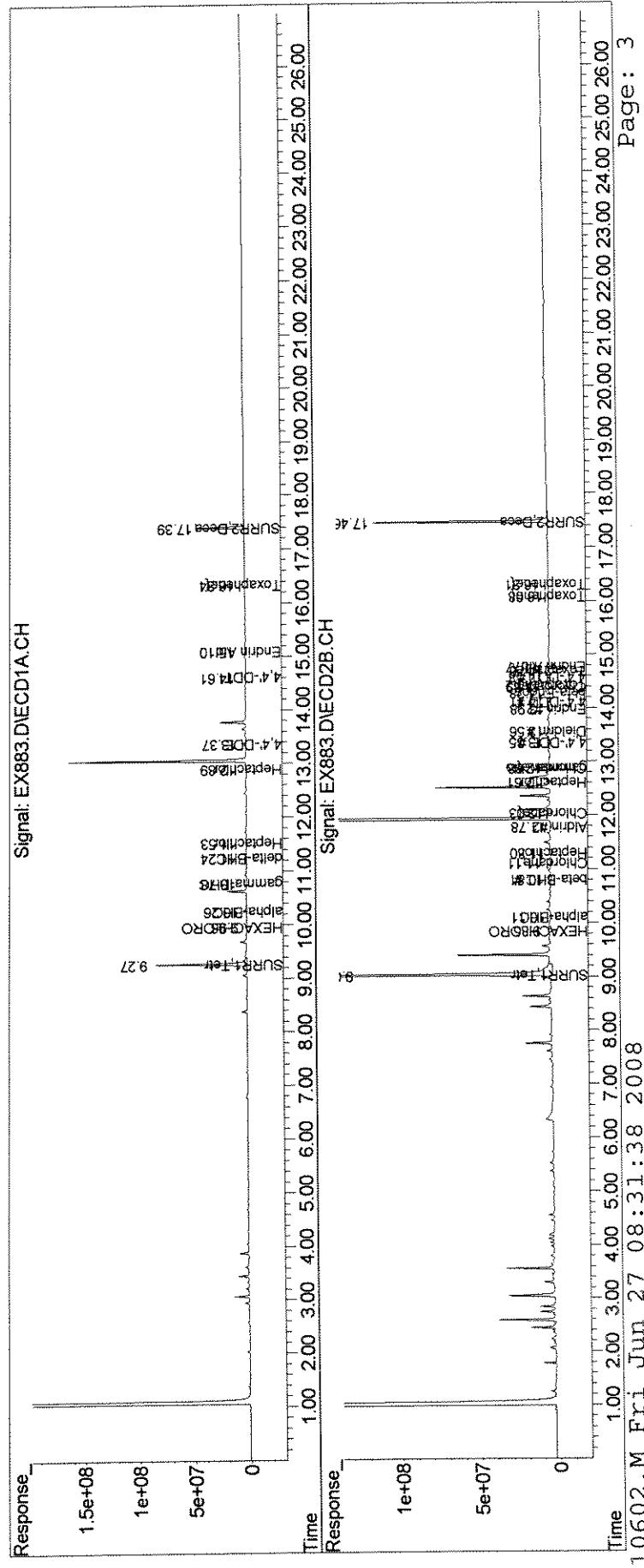
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : EX883.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 6:04 pm
Operator : M.PEDRO
Sample : 1112067 1.
Misc : 06/25/08 212 ensr r44650 8081
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:35 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01052

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : MC-45B

Date Sampled : 06/25/08 13:00 Order #: 1112486 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	1.1 E	UG/L
BETA-BHC	0.047	7.8 E	UG/L
GAMMA-BHC	0.047	0.085	UG/L
DELTA-BHC	0.047	0.58 E	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.23	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.047 U	UG/L
HEXACHLOROBENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	97	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	92	%

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : ex919.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 4:38 pm
 Operator : M.PEDRO
 Sample : 1112486 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:54:41 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1649.1E6	5641.6E6	87.560	92.462
Spiked Amount	100.000	Range 30 - 150	Recovery =		87.56%	92.46%
25) S SURR2,Decachloro	17.39	17.46	1651.5E6	3941.9E6	96.693	90.305
Spiked Amount	100.000	Range 30 - 150	Recovery =		96.69%	90.31%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	7070.4E6	18862.4E6	235.437	203.991
4) tcm gamma-BHC (L	10.79	10.65	497.3E6	1273.0E6	18.090m	15.494m
7) tc beta-BHC	10.95	10.81	19112.0E6	50076.1E6	1655.358	1403.756
8) tc delta-BHC	11.23	11.25	3417.2E6	9314.6E6	123.559	112.098
11) tc gamma-Chlord	13.09	12.89	574.4E6	3363.0E6	25.203m	48.233m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

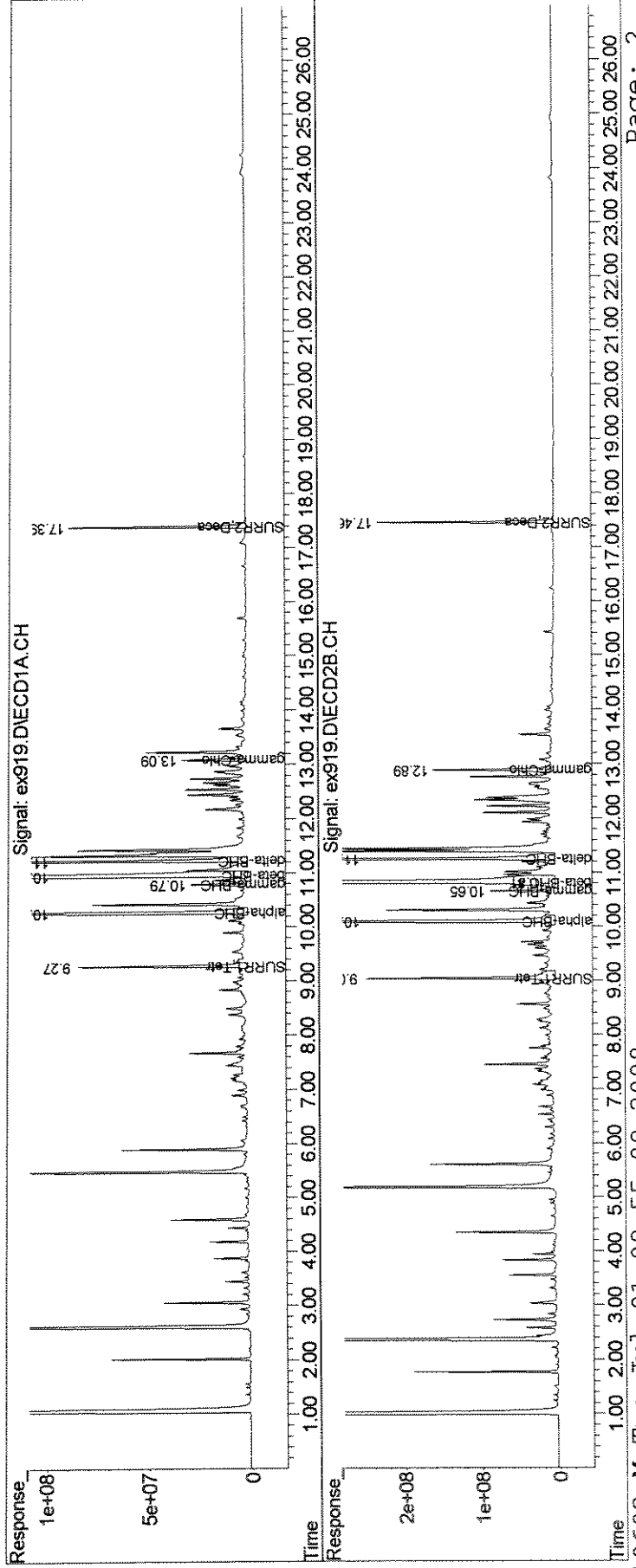
mf 7/1
160

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex919.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 4:38 pm
 Operator : M.PEDRO
 Sample : 1112486 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:54:41 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



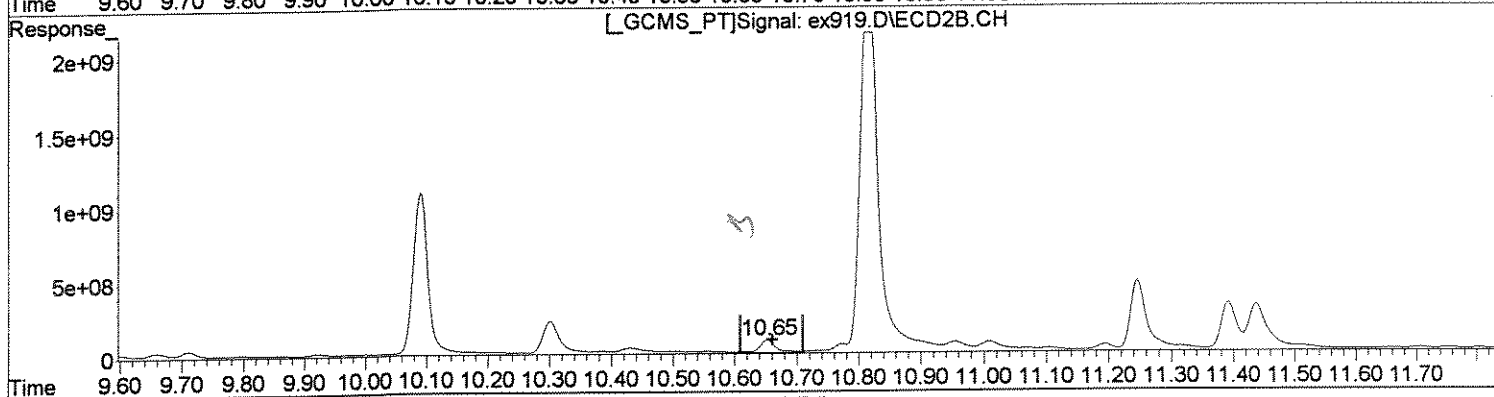
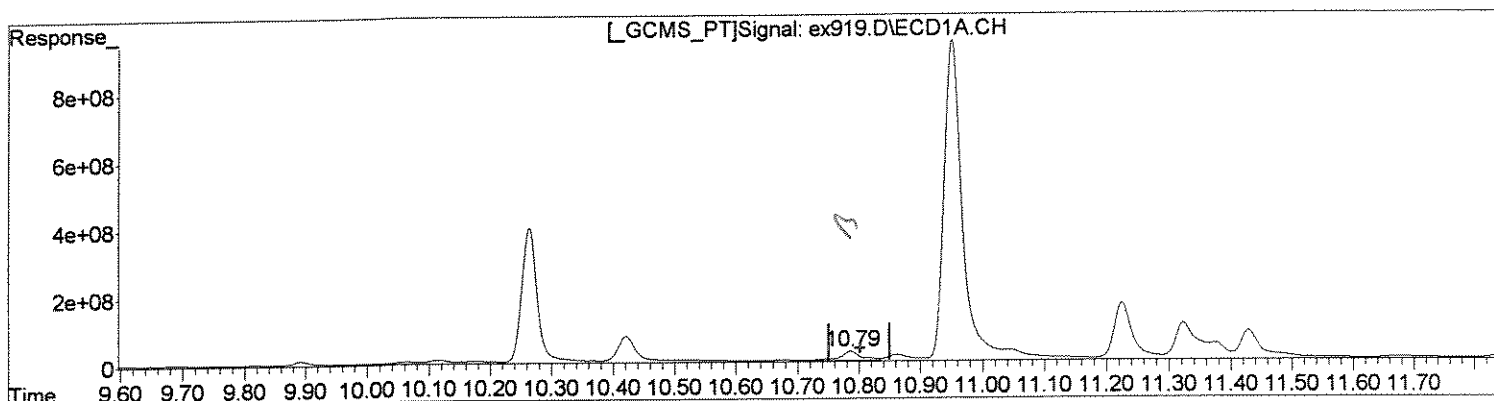
01055

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 4:38 pm
Operator : M.PEDRO
Sample : 1112486 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:15 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)
10.79min 25.533ug/l
response 701878114

(4) gamma-BHC (L #2 (tcm)
10.65min 19.824ug/l
response 1628664696

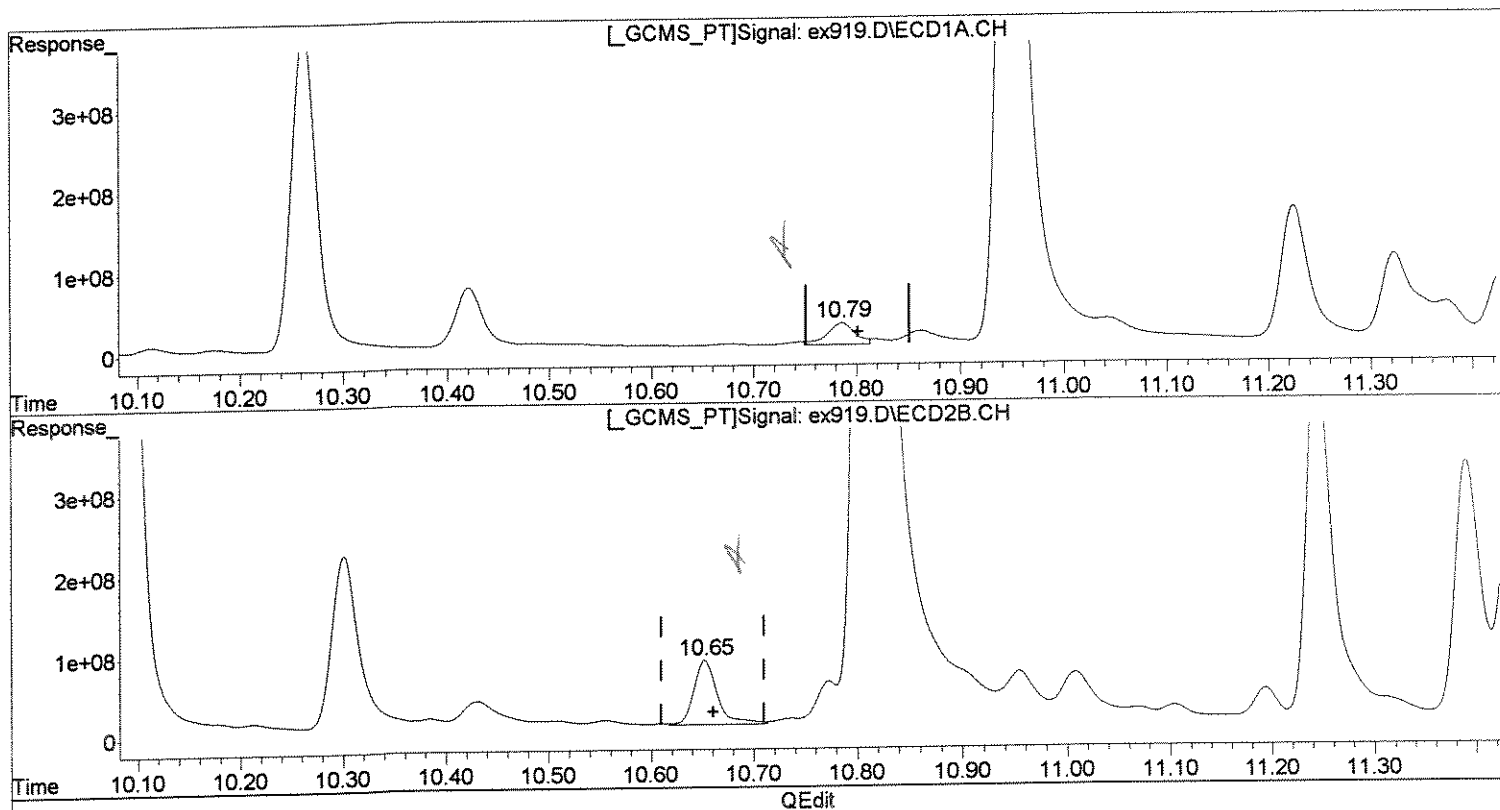
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 4:38 pm
Operator : M.PEDRO
Sample : 1112486 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:15 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm))
10.79min 18.090ug/l m
response 497270302

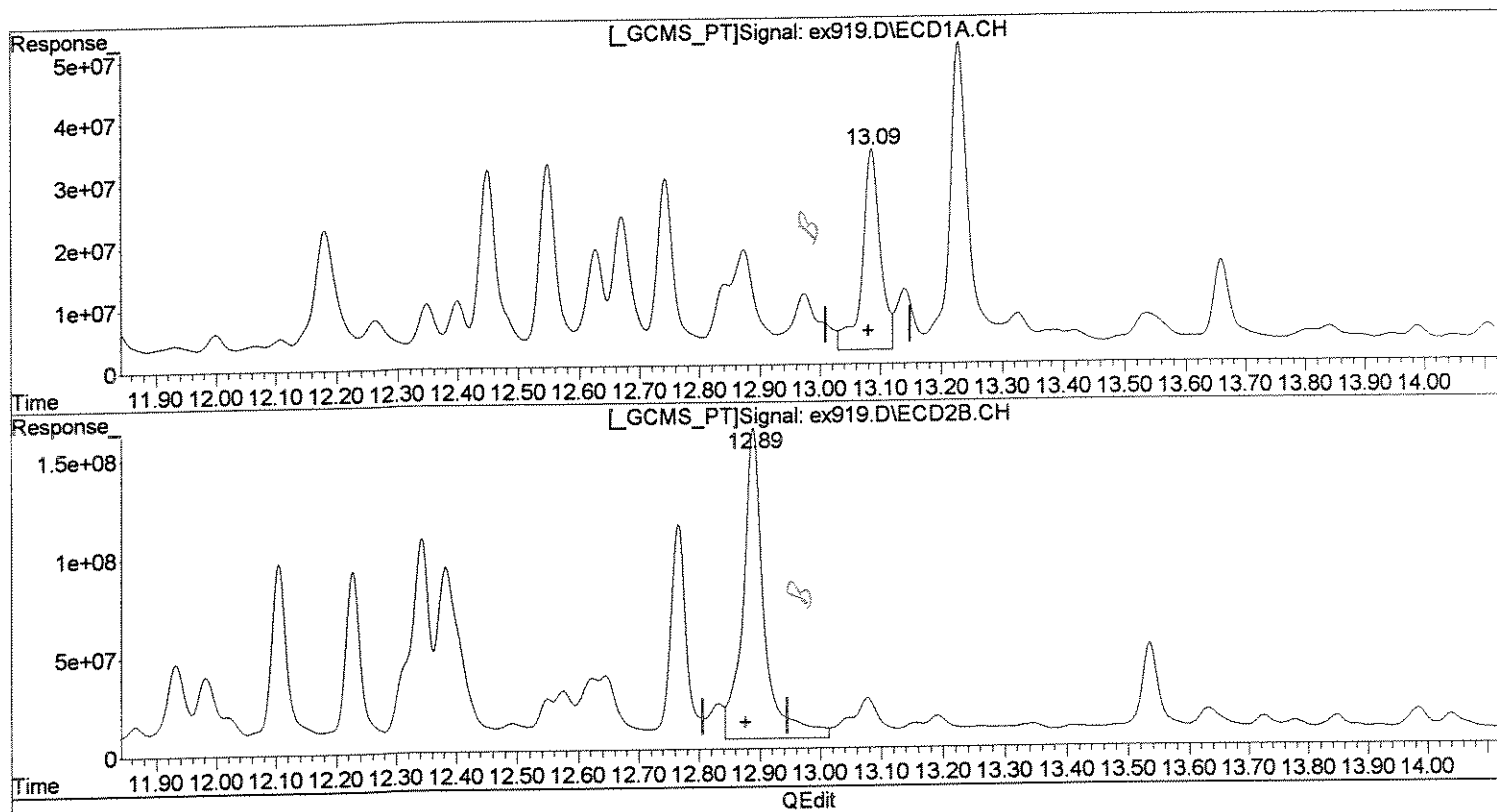
(4) gamma-BHC (L #2 (tcm))
10.65min 15.494ug/l m
response 1272987850

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 4:38 pm
Operator : M.PEDRO
Sample : 1112486 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:15 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(11) gamma-Chlord (tc)
13.09min 29.628ug/l
response 675249130

(11) gamma-Chlord #2 (tc)
12.89min 54.548ug/l
response 3803291646

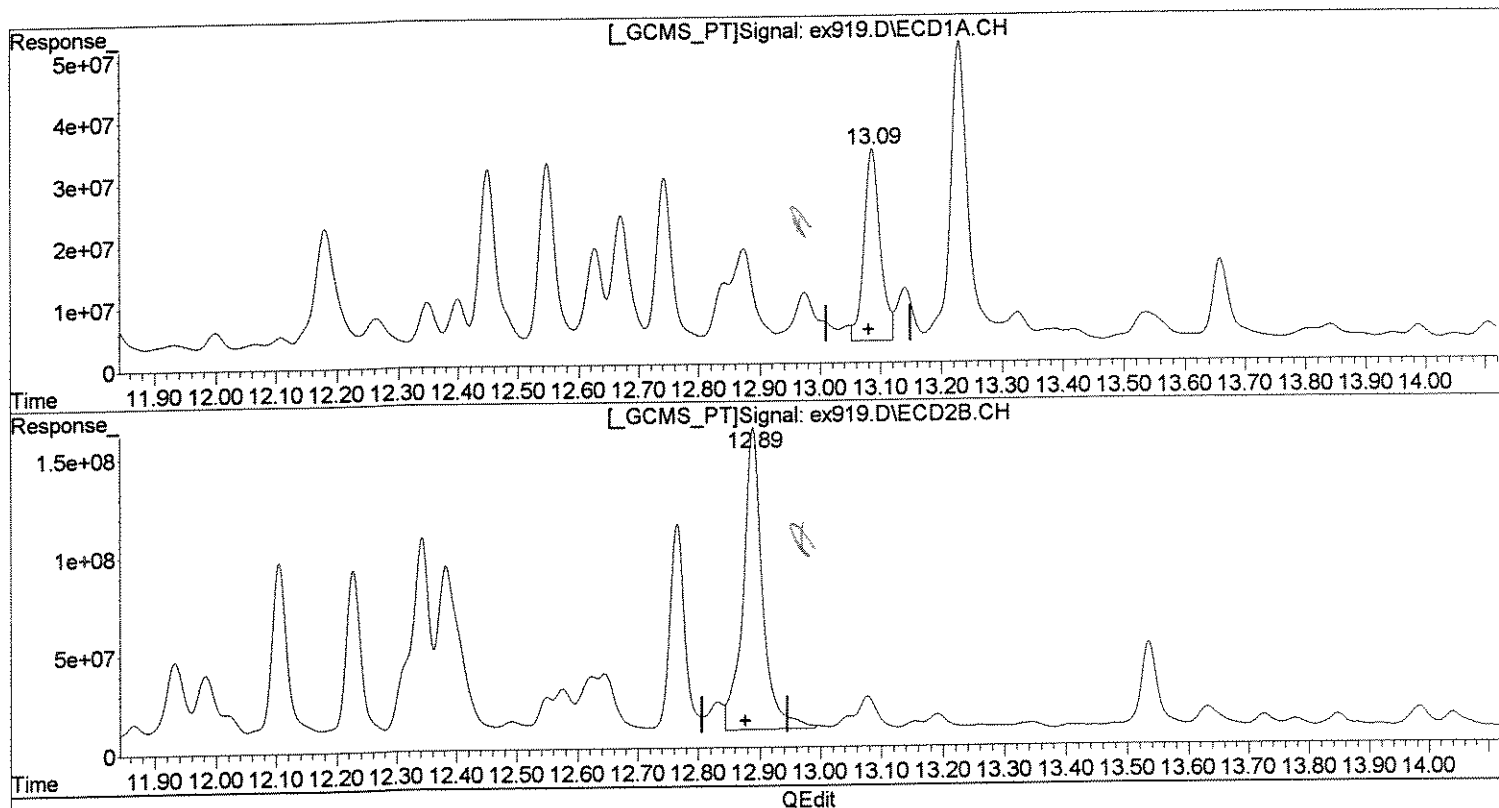
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 4:38 pm
Operator : M.PEDRO
Sample : 1112486 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:15 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(11) gamma-Chlord (tc)
13.09min 25.203ug/l m
response 574393331

(11) gamma-Chlord #2 (tc)
12.89min 48.233ug/l m
response 3363023084

(+) = Expected Retention Time

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX919.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 4:38 pm
 Operator : M.PEDRO
 Sample : 1112486 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:15 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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System Monitoring Compounds

1) S SURR1,Tetrac	9.27	9.03	1649.1E6	5641.6E6	87.560	92.462
Spiked Amount	100.000	Range 30 - 150	Recovery =		87.56%	92.46%
25) S SURR2,Decachloro	17.39	17.46	1651.5E6	3941.9E6	96.693	90.305
Spiked Amount	100.000	Range 30 - 150	Recovery =		96.69%	90.31%

Target Compounds

2) TC HEXACHLOROBENZEN	9.97	0.00	99596056	0	3.666	N.D. #
3) tc alpha-BHC	10.26	10.09	7070.4E6	18862.4E6	235.437	203.991
4) tcm gamma-BHC (L	10.79	10.65	701.9E6	1628.7E6	25.533	19.824
6) tcm Aldrin	12.00	11.75	99726171	335.4E6	4.052	4.475
7) tc beta-BHC	10.95	10.81	19112.0E6	50076.1E6	1655.358	1403.756
8) tc delta-BHC	11.23	11.25	3417.2E6	9314.6E6	123.559	112.098
9) tc Heptachlor E	12.87	12.62	606.9E6	603.9E6	26.339	8.988 #
10) tc alpha-Endosu	0.00	13.16	0	149.9E6	N.D.	2.516 #
11) tc gamma-Chlord	13.09	12.89	675.2E6	3803.3E6	29.628	54.548 #
12) tc alpha-Chlord	0.00	13.08	0	679.1E6	N.D.	10.225 #
13) tc 4,4'-DDE	13.39	13.34	73076625	205.1E6	3.250	3.147
14) tcm Dieldrin	13.84	13.54	120.7E6	1120.2E6	5.184	17.167 #
15) tcm Endrin	14.15	13.98	75285348	325.6E6	3.609	5.740 #
19) tcm 4,4'-DDT	0.00	14.58	0	157.6E6	N.D.	2.877 #
20) tc Endrin Aldeh	0.00	14.76	0	126.5E6	N.D.	3.143 #
21) tc Endosulfan S	15.77	15.16	22074828	74383354	1.217	1.499
22) tc Methoxychlor	15.36	15.57	7111440	56521849	0.721	2.344 #
24) tc Endrin Keton	16.14	0.00	6601717	0	0.316	N.D. #
26) L8C Toxaphene	14.61	14.41	76309962	165.8E6	182.731	101.214 #
27) L8C Toxaphene {2}	0.00	14.71	0	71734248	N.D.	93.247 #
28) L8C Toxaphene {3}	15.29	0.00	52018476	0	72.739	N.D. #
29) L8C Toxaphene {4}	16.14	16.08	6601717	19691694	7.427	12.106 #
30) L8C Toxaphene {5}	16.35	16.32	30969354	21530728	45.870	12.362 #
Sum Toxaphene			165.9E6	278.8E6	308.767	218.928
Average Toxaphene					77.192	54.732

original

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX919.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 4:38 pm
 Operator : M.PEDRO
 Sample : 1112486 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:15 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

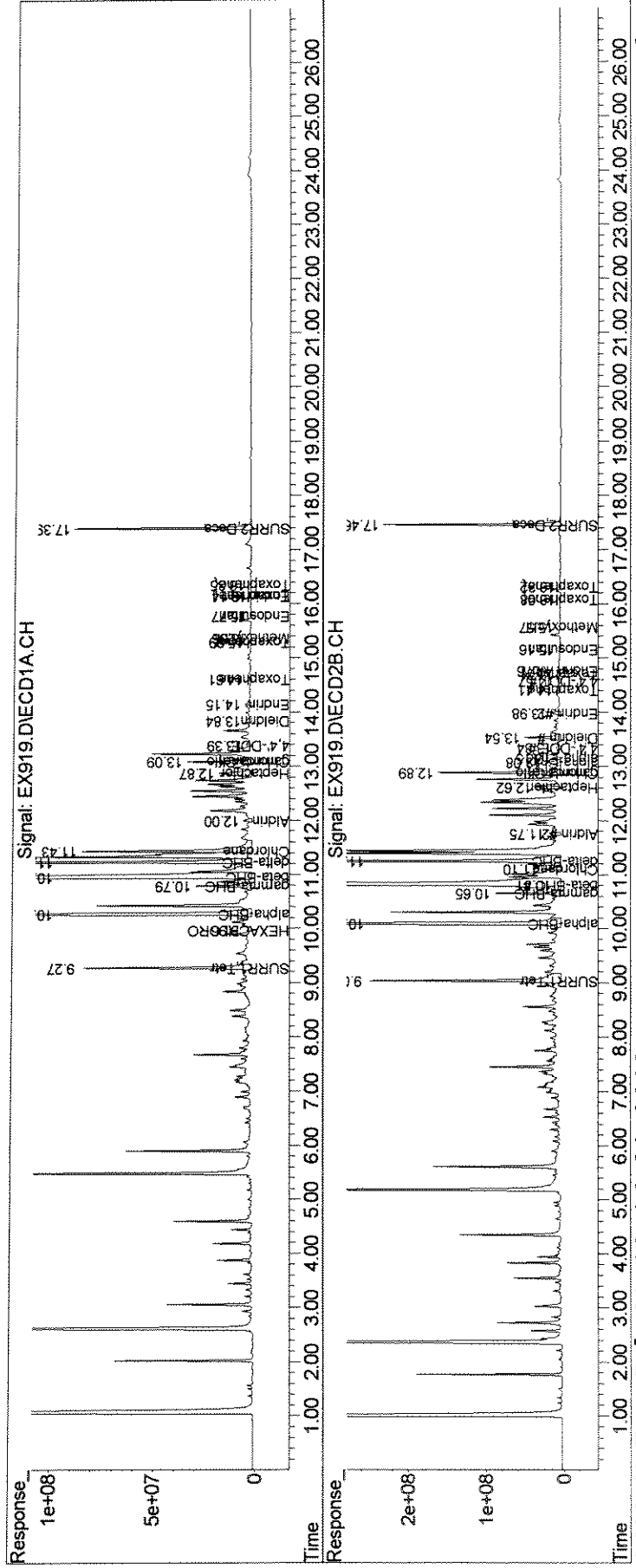
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) L9C Chlordane	11.43	11.10	2320.8E6	643.0E6	3032.764	255.316 #
34) L9C Chlordane{4}	13.09	12.89	675.2E6	3803.3E6	246.723	480.624 #
Sum Chlordane			2996.0E6	4446.3E6	3279.487	735.940
Average Chlordane					1639.744	367.970

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 4:38 pm
Operator : M.PEDRO
Sample : 1112486 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:15 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



010602

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-45B

Date Sampled : 06/25/08 13:00 Order #: 1112486 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 07/14/08		
ANALYTICAL DILUTION:	50.00		
ALDRIN	0.047	2.4 U	UG/L
ALPHA-BHC	0.047	2.4 U	UG/L
BETA-BHC	0.047	11 D	UG/L
GAMMA-BHC	0.047	2.4 U	UG/L
DELTA-BHC	0.047	2.4 U	UG/L
ALPHA-CHLORDANE	0.047	2.4 U	UG/L
GAMMA-CHLORDANE	0.047	2.4 U	UG/L
CHLORDANE	0.24	12 U	UG/L
4,4'-DDE	0.047	2.4 U	UG/L
4,4'-DDT	0.047	2.4 U	UG/L
DIELDRIN	0.094	4.7 U	UG/L
ALPHA-ENDOSULFAN	0.047	2.4 U	UG/L
BETA-ENDOSULFAN	0.094	4.7 U	UG/L
ENDOSULFAN SULFATE	0.094	4.7 U	UG/L
ENDRIN	0.047	2.4 U	UG/L
ENDRIN ALDEHYDE	0.094	4.7 U	UG/L
ENDRIN KETONE	0.094	4.7 U	UG/L
HEPTACHLOR	0.047	2.4 U	UG/L
HEPTACHLOR EPOXIDE	0.047	2.4 U	UG/L
HEXACHLOROBENZENE	0.047	2.4 U	UG/L
METHOXYCHLOR	0.47	24 U	UG/L
4,4'-TDE (DDD)	0.047	2.4 U	UG/L
TOXAPHENE	0.94	47 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	D	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	D	%

Data Path : J:\ACQUADATA\6890D\DATA\071408\
 Data File : ey100.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 14 Jul 2008 10:54 pm
 Operator : M.PEDRO
 Sample : 1112486 50.0
 Misc : 06/27/08 212 8081 ensr r44866
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 12:59:09 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

 System Monitoring Compounds

1) S SURR1,Tetrac	9.43	9.32	30313489	190.6E6	1.502	2.355 #
Spiked Amount	100.000	Range	30 - 150	Recovery =	1.50%#	2.36%#
25) S SURR2,Decachloro	17.61	17.86	38519377	132.9E6	2.205	2.413
Spiked Amount	100.000	Range	30 - 150	Recovery =	2.21%#	2.41%#

*44
7/16
Diluted
out*

Target Compounds

3) tc alpha-BHC	10.44	10.40	132.1E6	618.8E6	4.272	5.215
7) tc beta-BHC	11.12	11.12	492.0E6	2073.4E6	42.843	45.944
8) tc delta-BHC	11.40	11.56	58017388	311.8E6	2.133	3.021 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : EY100.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 14 Jul 2008 10:54 pm
 Operator : M.PEDRO
 Sample : 1112486 50.0 *wt 7/14*
 Misc : ~~07/10/08~~ 212 8081 ensr r44866
 ALS Vial : 22 *wt* Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 08:29:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S SURR1,Tetrac	9.43	9.32	30313489	190.6E6	1.502	2.355 #
Spiked Amount	100.000	Range	30 - 150	Recovery =	1.50%#	2.36%#
25) S SURR2,Decachloro	17.61	17.86	38519377	132.9E6	2.205	2.413
Spiked Amount	100.000	Range	30 - 150	Recovery =	2.21%#	2.41%#

Target Compounds

3) tc alpha-BHC	10.44	10.40	132.1E6	618.8E6	4.272	5.215
4) tcm gamma-BHC (L	10.96	10.97	12321355	53188317	0.437	0.506
5) tcm Heptachlor	0.00	11.64	0	21882995	N.D.	0.218 #
6) tcm Aldrin	0.00	12.10	0	85944723	N.D.	0.943 #
7) tc beta-BHC	11.12	11.12	492.0E6	2073.4E6	42.843	45.944
8) tc delta-BHC	11.40	11.56	58017388	311.8E6	2.133	3.021 #
9) tc Heptachlor E	0.00	12.96	0	71969183	N.D.	0.895 #
10) tc alpha-Endosu	0.00	13.51	0	9404120	N.D.	0.133 #
11) tc gamma-Chlord	13.28	13.23	16560434	203.6E6	0.755	2.482 #
12) tc alpha-Chlord	0.00	13.43	0	41092197	N.D.	0.529 #
13) tc 4,4'-DDE	13.57	0.00	4162540	0	0.191	N.D. #
14) tcm Dieldrin	0.00	13.90	0	35896948	N.D.	0.459 #
15) tcm Endrin	14.40	14.36	4638798	21157294	0.224	0.314 #
17) tc beta-Endosul	0.00	14.67	0	13328075	N.D.	0.208 #
19) tcm 4,4'-DDT	0.00	14.97	0	28823564	N.D.	0.440 #
20) tc Endrin Aldeh	0.00	15.15	0	18134335	N.D.	0.370 #
21) tc Endosulfan S	0.00	15.56	0	1232973	N.D.	0.022 #
22) tc Methoxychlor	0.00	15.93	0	1623940	N.D.	0.056 #
24) tc Endrin Keton	0.00	16.33	0	18564634	N.D.	0.296 #
27) L8C Toxaphene{2}	0.00	15.05	0	4290470	N.D.	4.756 #
28) L8C Toxaphene{3}	0.00	15.15	0	18134335	N.D.	9.701 #
30) L8C Toxaphene{5}	0.00	16.68	0	4479961	N.D.	1.985 #
Sum Toxaphene			0	26904766	N.D.	16.442
Average Toxaphene					0.000	5.481
31) L9C Chlordane	11.60	11.42	33896019	24245365	42.515	7.498 #

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : EY100.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 14 Jul 2008 10:54 pm
 Operator : M.PEDRO
 Sample : 1112486 50.0
 Misc : 07/10/08 212 8081 ensr r44866
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 08:29:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) L9C Chlordane {2}	0.00	11.64	0	21882995	N.D.	4.863 #
33) L9C Chlordane {3}	0.00	12.36	0	21241695	N.D.	5.934 #
34) L9C Chlordane {4}	13.28	13.23	16560434	203.6E6	5.986	20.320 #
35) L9C Chlordane {5}	14.62	0.00	6248012	0	6.687	N.D. #
Sum Chlordane			56704465	271.0E6	55.187	38.615
Average Chlordane					18.396	9.654

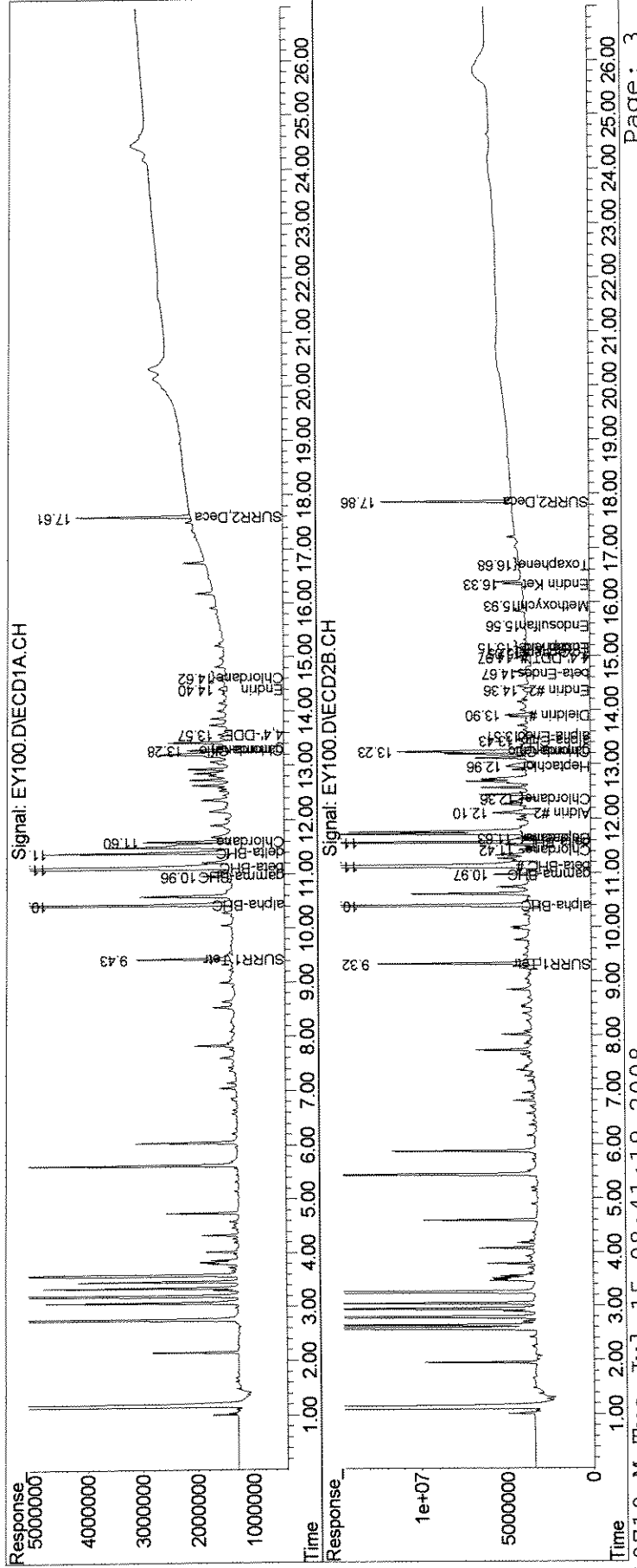
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071408\
Data File : EY100.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Jul 2008 10:54 pm
Operator : M.PEDRO
Sample : 1112486 50.0
Misc : 07/10/08 212 8081 ensr r44866
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 15 08:29:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-53B

Date Sampled : 06/25/08 12:00 Order #: 1112487 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.68 E	UG/L
BETA-BHC	0.047	2.2 E	UG/L
GAMMA-BHC	0.047	0.075	UG/L
DELTA-BHC	0.047	0.53 E	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.047 U	UG/L
HEXACHLOROBENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	94	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	85	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex920.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 5:14 pm
 Operator : M.PEDRO
 Sample : 1112487 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:59:21 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1601.9E6	4715.3E6	85.055	77.279
Spiked Amount	100.000	Range	30 - 150	Recovery =	85.06%	77.28%
25) S SURR2,Decachloro	17.39	17.46	1599.2E6	3787.1E6	93.629	86.759
Spiked Amount	100.000	Range	30 - 150	Recovery =	93.63%	86.76%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	4348.5E6	11703.0E6	144.803	126.564
4) tcm gamma-BHC (L	10.79	10.65	435.6E6	1257.8E6	15.847m	15.309m
7) tc beta-BHC	10.95	10.82	5448.9E6	16310.3E6	471.946	457.219
8) tc delta-BHC	11.23	11.25	3115.0E6	9409.0E6	112.630	113.234
11) tc gamma-Chlord	13.09	12.89	106.7E6	550.0E6	4.680m	7.889m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

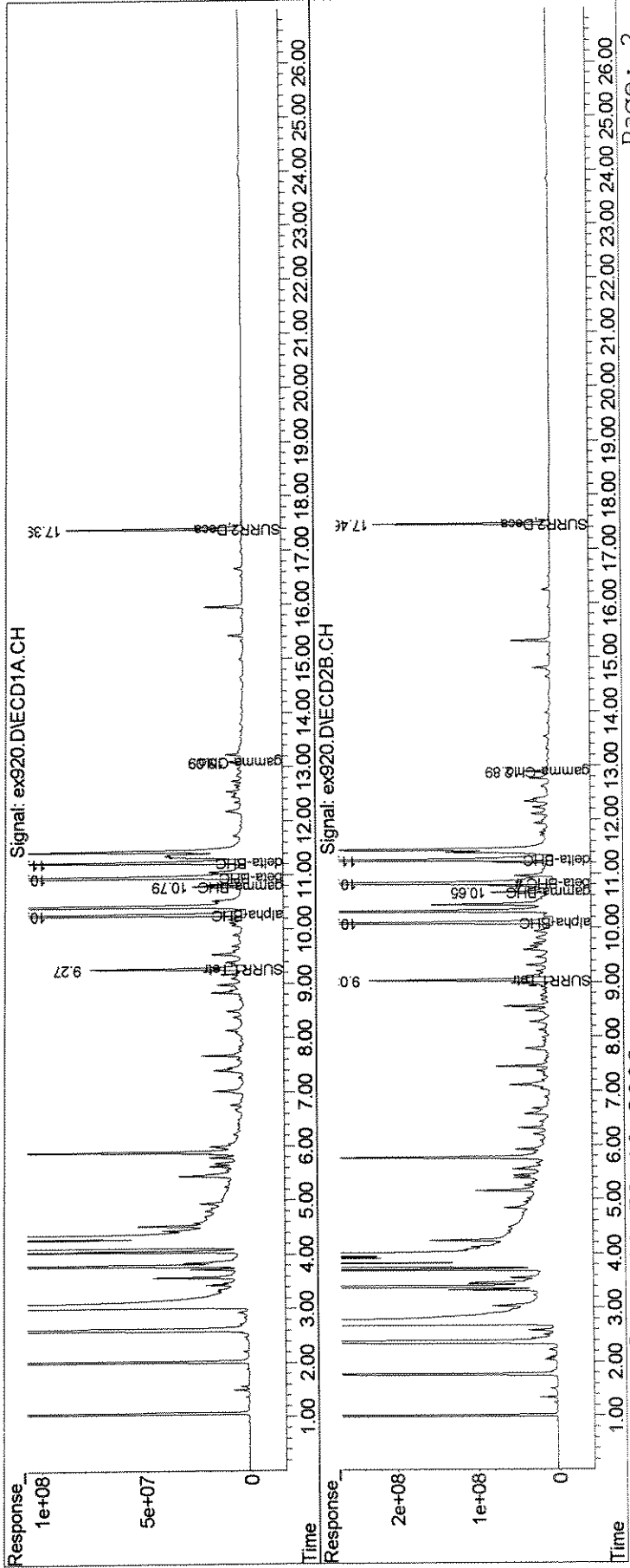
*avg
 1/10*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 5:14 pm
Operator : M.PEDRO
Sample : 1112487 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 09:59:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



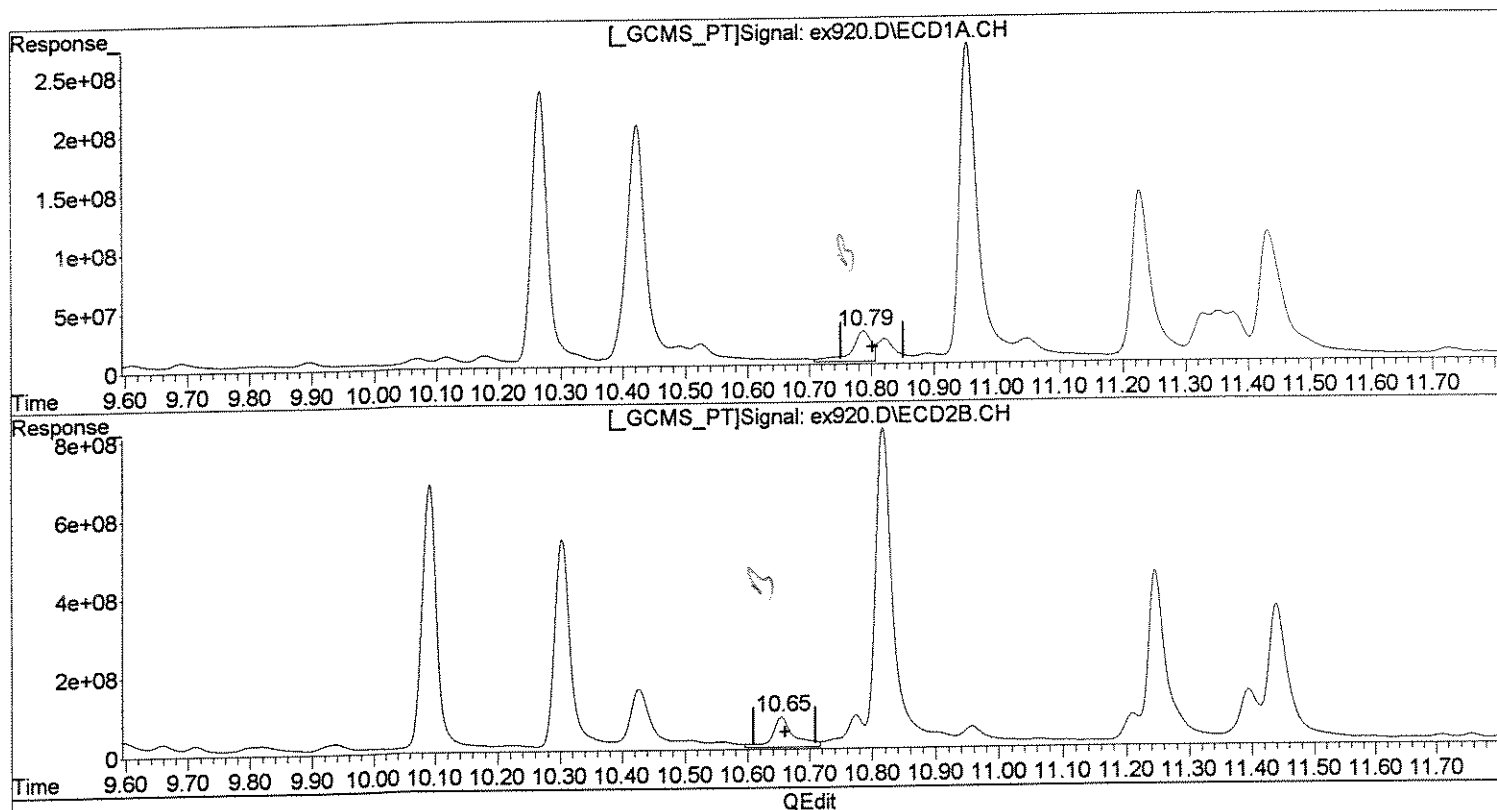
01071

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex920.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 5:14 pm
 Operator : M.PEDRO
 Sample : 1112487 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:22 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)
 10.79min 20.736ug/l
 response 570009344

(4) gamma-BHC (L #2 (tcm)
 10.65min 22.672ug/l
 response 1862648489

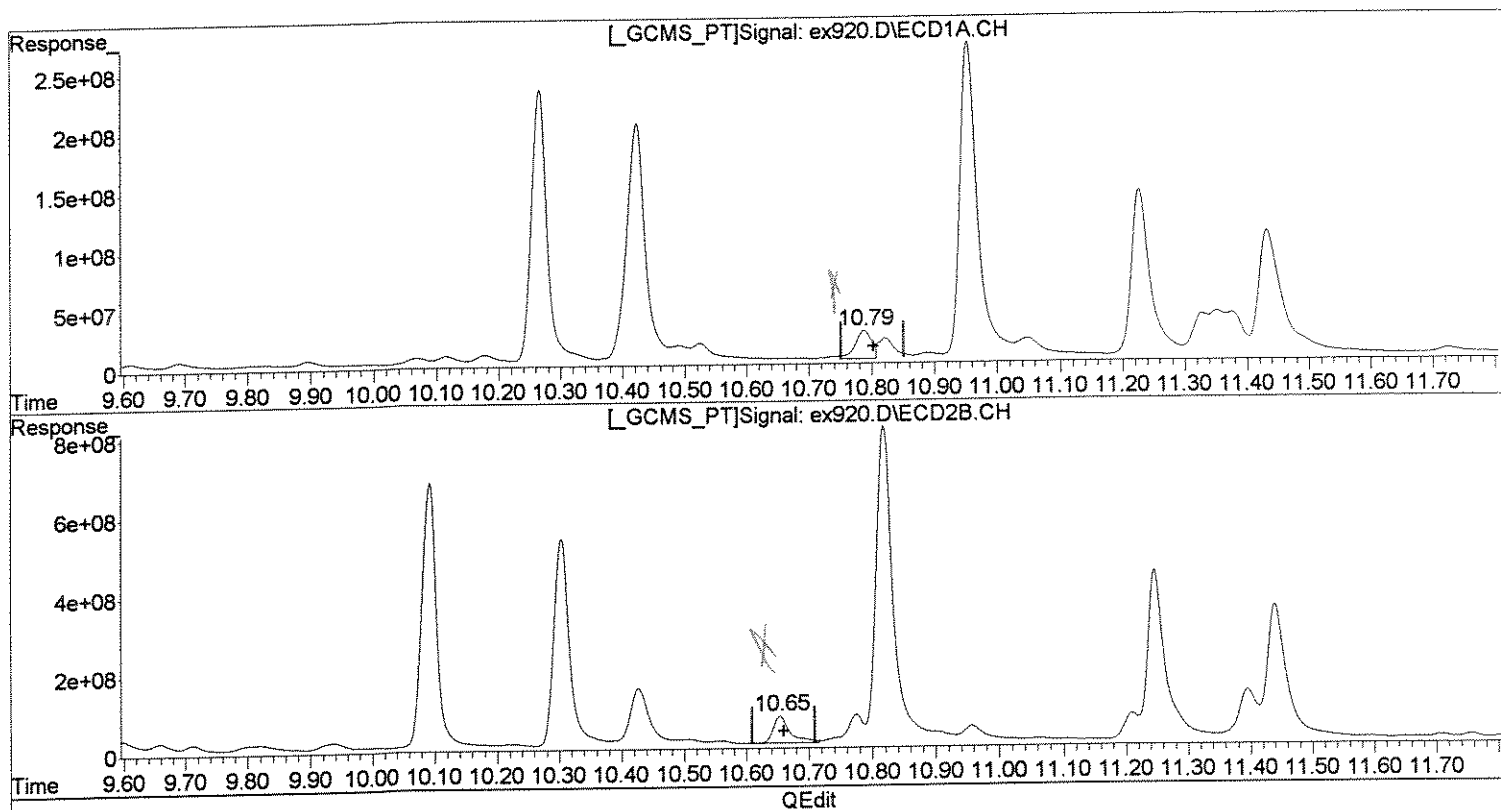
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 5:14 pm
Operator : M.PEDRO
Sample : 1112487 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)
10.79min 15.847ug/l m
response 435616430

(4) gamma-BHC (L #2 (tcm)
10.65min 15.309ug/l m
response 1257763282

WSP
7/1

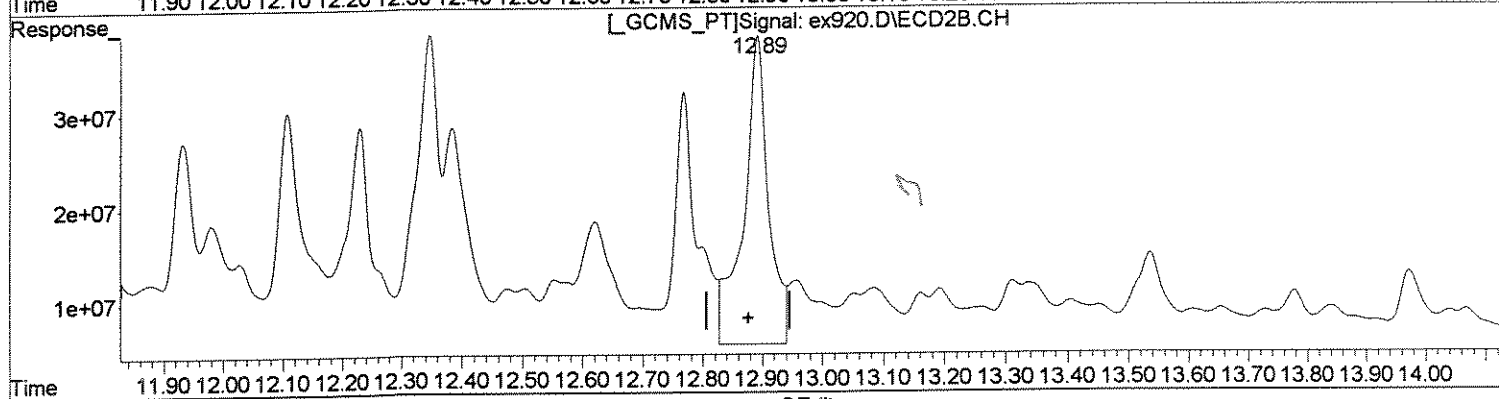
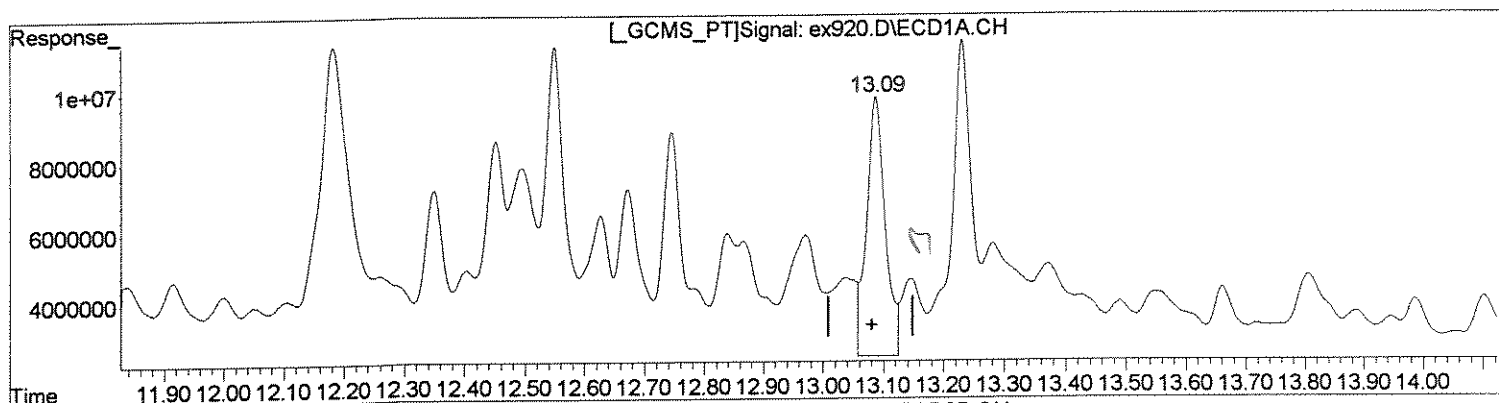
MW
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 5:14 pm
Operator : M.PEDRO
Sample : 1112487 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(11) gamma-Chlord (tc)
13.09min 6.963ug/l
response 158702425

(11) gamma-Chlord #2 (tc)
12.89min 13.597ug/l
response 948001876

Handwritten signature

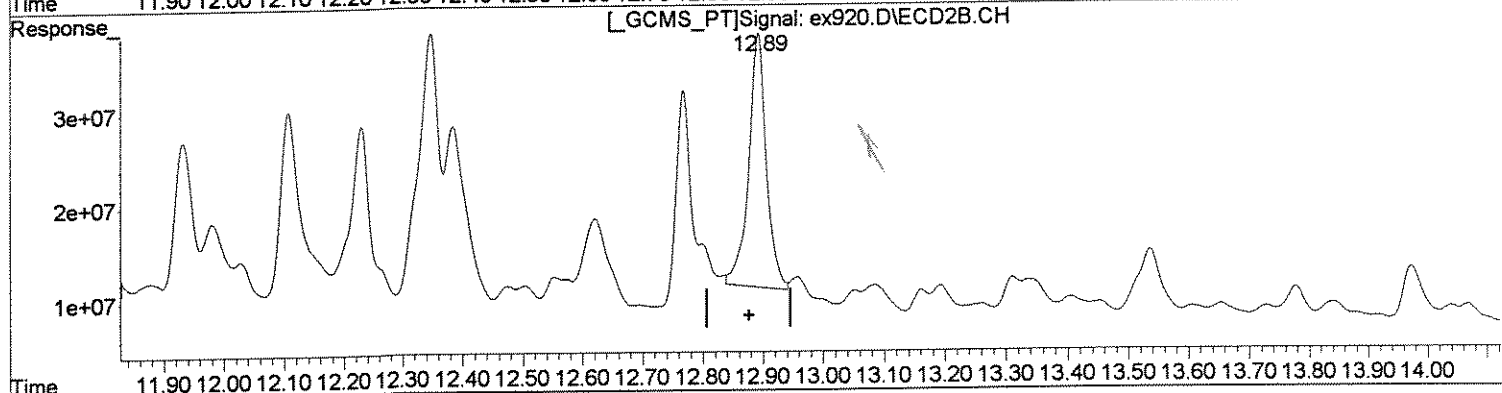
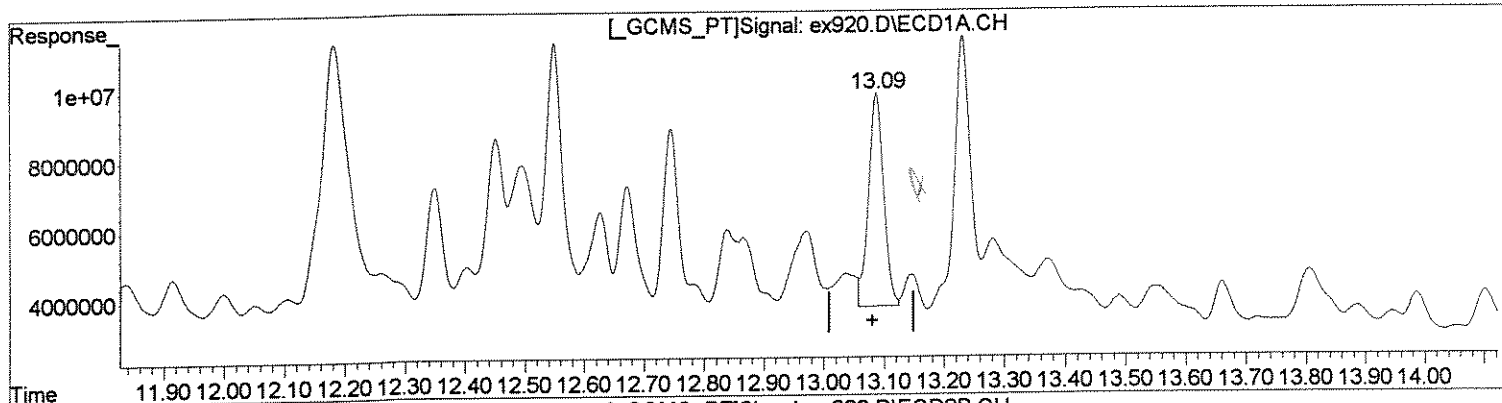
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex920.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 5:14 pm
 Operator : M.PEDRO
 Sample : 1112487 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:22 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(11) gamma-Chlord (tc)
 13.09min 4.680ug/l m
 response 106652421

(11) gamma-Chlord #2 (tc)
 12.89min 7.889ug/l m
 response 550033178

Handwritten notes:
 MV
 7/1

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX920.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 5:14 pm
 Operator : M.PEDRO
 Sample : 1112487 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:22 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

System Monitoring Compounds							
1) S	SURR1,Tetrac	9.27	9.04	1601.9E6	4715.3E6	85.055	77.279
	Spiked Amount	100.000	Range 30 - 150	Recovery =		85.06%	77.28%
25) S	SURR2,Decachloro	17.39	17.46	1599.2E6	3787.1E6	93.629	86.759
	Spiked Amount	100.000	Range 30 - 150	Recovery =		93.63%	86.76%

Target Compounds							
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
3) tc	alpha-BHC	10.26	10.09	4348.5E6	11703.0E6	144.803	126.564
4) tcm	gamma-BHC (L)	10.79	10.65	570.0E6	1862.6E6	20.736	22.672
6) tcm	Aldrin	12.00	11.76	64275535	357.8E6	2.611	4.775 #
7) tc	beta-BHC	10.95	10.82	5448.9E6	16310.3E6	471.946	457.219
8) tc	delta-BHC	11.23	11.25	3115.0E6	9409.0E6	112.630	113.234
9) tc	Heptachlor E	0.00	12.62	0	510.3E6	N.D.	7.594 #
10) tc	alpha-Endosu	13.49	13.16	39014747	110.2E6	1.894	1.849
11) tc	gamma-Chlord	13.09	12.89	158.7E6	948.0E6	6.963	13.597 #
12) tc	alpha-Chlord	13.28	13.08	126.3E6	202.5E6	5.652	3.050 #
13) tc	4,4'-DDE	13.37	13.34	90918954	174.3E6	4.044	2.674 #
14) tcm	Dieldrin	13.81	13.54	90666645	345.0E6	3.894	5.288 #
15) tcm	Endrin	14.16	13.97	24494707	204.7E6	1.174	3.609 #
17) tc	beta-Endosul	0.00	14.28	0	73701427	N.D.	1.344 #
19) tcm	4,4'-DDT	14.65	14.58	49616588	116.7E6	2.477	2.130
20) tc	Endrin Aldeh	0.00	14.77	0	91532987	N.D.	2.275 #
21) tc	Endosulfan S	15.76	15.17	30712334	42092259	1.693	0.848 #
23) tc	FAMPHUR	0.00	15.30	0	1005.4E6	N.D.	31.629 #
24) tc	Endrin Keton	16.14	15.92	8887502	83504113	0.426	1.542 #
26) L8C	Toxaphene	14.60	14.44	32949864	41112984	78.902	25.093 #
28) L8C	Toxaphene {3}	0.00	14.81	0	440.8E6	N.D.	266.820 #
29) L8C	Toxaphene {4}	16.14	16.08	8887502	6847515	9.999	4.210 #
30) L8C	Toxaphene {5}	16.34	0.00	14838733	0	21.978	N.D. #
	Sum Toxaphene			56676099	488.8E6	110.878	296.122
	Average Toxaphene					36.959	98.707
31) L9C	Chlordane	11.43	11.11	3256.2E6	234.4E6	4255.154	93.051 #

Ret 1/10

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX920.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 5:14 pm
 Operator : M.PEDRO
 Sample : 1112487 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:22 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

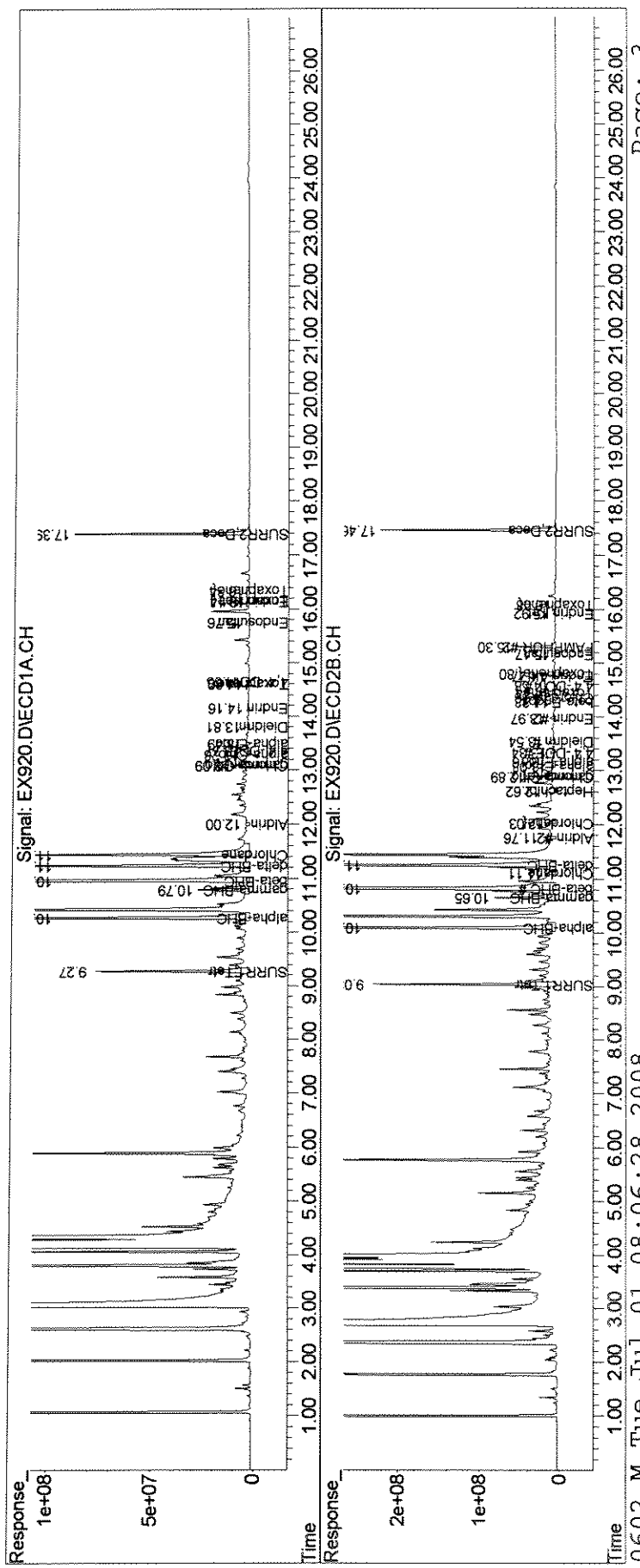
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) L9C Chlordane {3}	0.00	12.03	0	230.6E6	N.D.	83.052 #
34) L9C Chlordane {4}	13.09	12.89	158.7E6	948.0E6	57.987	119.800 #
35) L9C Chlordane {5}	0.00	14.36	0	82208270	N.D.	26.998 #
Sum Chlordane			3414.9E6	1495.1E6	4313.141	322.901
Average Chlordane					2156.570	80.725

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 5:14 pm
Operator : M.PEDRO
Sample : 1112487 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01076

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : MC-53B

Date Sampled : 06/25/08 12:00 Order #: 1112487 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 07/11/08		
ANALYTICAL DILUTION:	10.00		
ALDRIN	0.047	0.47 U	UG/L
ALPHA-BHC	0.047	0.76 D	UG/L
BETA-BHC	0.047	3.0 D	UG/L
GAMMA-BHC	0.047	0.47 U	UG/L
DELTA-BHC	0.047	0.69 D	UG/L
ALPHA-CHLORDANE	0.047	0.47 U	UG/L
GAMMA-CHLORDANE	0.047	0.47 U	UG/L
CHLORDANE	0.24	2.4 U	UG/L
4,4'-DDE	0.047	0.47 U	UG/L
4,4'-DDT	0.047	0.47 U	UG/L
DIELDRIN	0.094	0.94 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.47 U	UG/L
BETA-ENDOSULFAN	0.094	0.94 U	UG/L
ENDOSULFAN SULFATE	0.094	0.94 U	UG/L
ENDRIN	0.047	0.47 U	UG/L
ENDRIN ALDEHYDE	0.094	0.94 U	UG/L
ENDRIN KETONE	0.094	0.94 U	UG/L
HEPTACHLOR	0.047	0.47 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.47 U	UG/L
HEXACHLOROBENZENE	0.047	0.47 U	UG/L
METHOXYCHLOR	0.47	4.7 U	UG/L
4,4'-TDE (DDD)	0.047	0.47 U	UG/L
TOXAPHENE	0.94	9.4 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	115	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	103	%

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey070.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 12:31 pm
 Operator : M.PEDRO
 Sample : ~~1111487~~ 10.1112487 MP 7/15
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 37 Sample Multiplier: 1

(PK)

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:15:18 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S SURR1,Tetrac	9.43	9.32	184.7E6	835.8E6	9.150	10.329
Spiked Amount	100.000	Range 30 - 150	Recovery =		9.15%#	10.33%#
25) S SURR2,Decachloro	17.61	17.86	190.5E6	634.6E6	10.909	11.522
Spiked Amount	100.000	Range 30 - 150	Recovery =		10.91%#	11.52%#

Target Compounds

3) tc alpha-BHC	10.44	10.40	467.1E6	1915.3E6	15.109	16.139
4) tcm gamma-BHC (L)	10.97	10.97	43434259	186.7E6	1.540	1.777
7) tc beta-BHC	11.12	11.12	667.6E6	2912.4E6	58.140	64.533
8) tc delta-BHC	11.40	11.56	345.7E6	1519.0E6	12.711	14.713m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

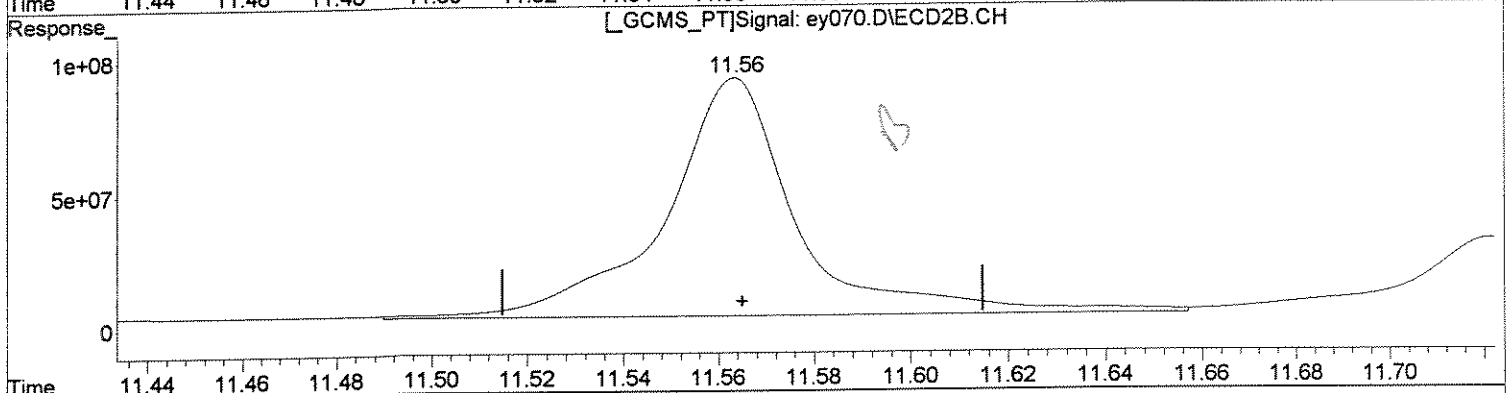
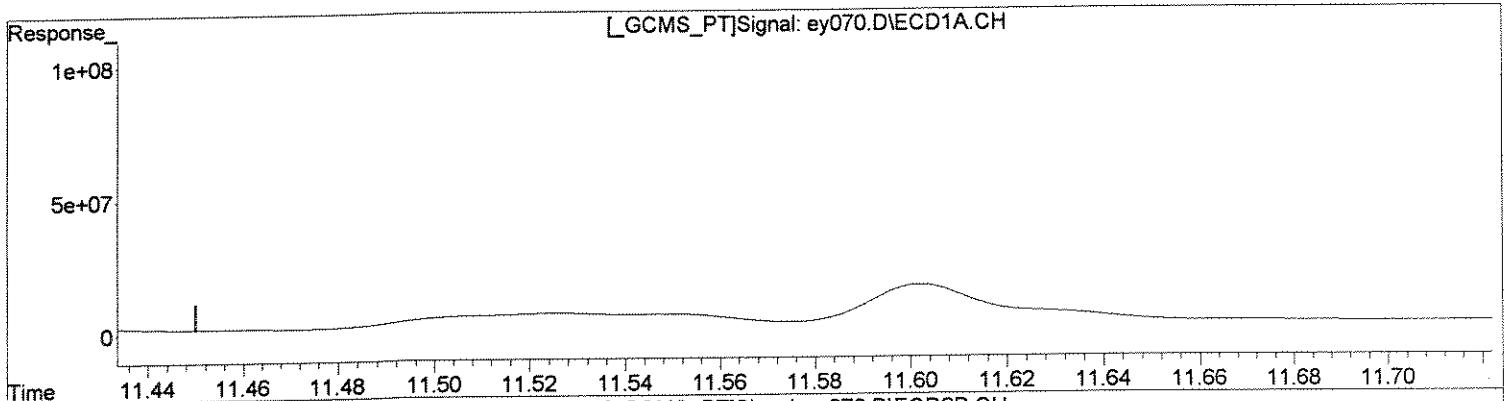
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey070.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:31 pm
Operator : M.PEDRO
Sample : 1111487 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:50:49 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.40min 12.711ug/l
response 345725118

(8) delta-BHC #2 (tc)
11.56min 16.705ug/l
response 1724666550

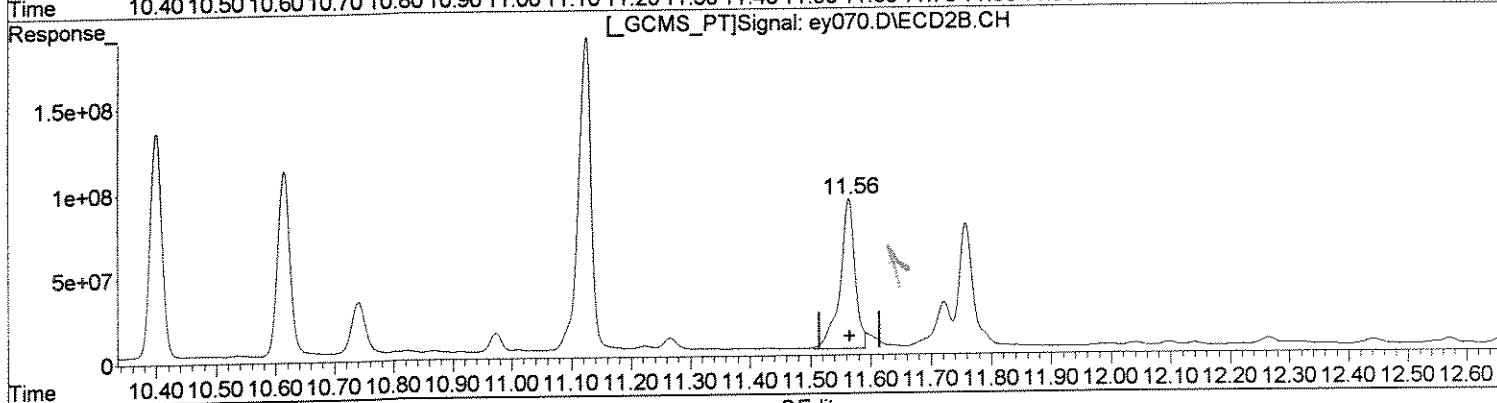
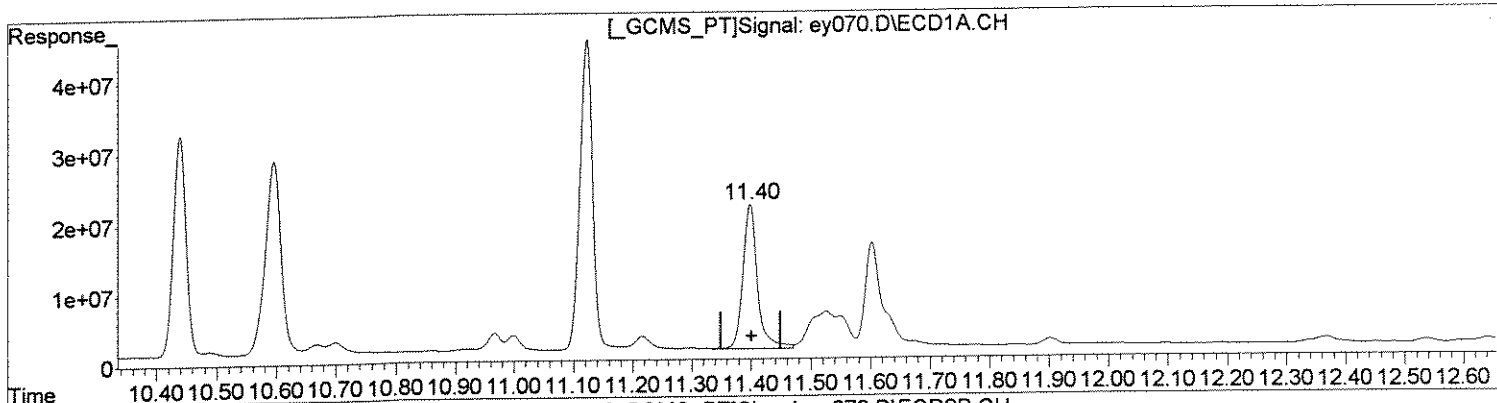
base

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey070.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:31 pm
Operator : M.PEDRO
Sample : 1111487 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:50:49 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.40min 12.711ug/l
response 345725118

(8) delta-BHC #2 (tc)
11.56min 14.713ug/l m
response 1518984225

WV
7/14

MVC
7/14

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY070.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 12:31 pm
 Operator : M.PEDRO
 Sample : 1111487 10.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:50:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	184.7E6	835.8E6	9.150	10.329
Spiked Amount	100.000	Range 30 - 150	Recovery =		9.15%#	10.33%#
25) S SURR2,Decachloro	17.61	17.86	190.5E6	634.6E6	10.909	11.522
Spiked Amount	100.000	Range 30 - 150	Recovery =		10.91%#	11.52%#
Target Compounds						
2) TC HEXACHLORO BENZEN	0.00	10.14	0	51842282	N.D.	0.427 #
3) tc alpha-BHC	10.44	10.40	467.1E6	1915.3E6	15.109	16.139
4) tcm gamma-BHC (L	10.97	10.97	43434259	186.7E6	1.540	1.777
6) tcm Aldrin	0.00	12.10	0	53662588	N.D.	0.589 #
7) tc beta-BHC	11.12	11.12	667.6E6	2912.4E6	58.140	64.533
8) tc delta-BHC	11.40	11.56	345.7E6	1724.7E6	12.711	16.705 #
9) tc Heptachlor E	0.00	12.96	0	83156194	N.D.	1.034 #
10) tc alpha-Endosu	0.00	13.52	0	19363357	N.D.	0.273 #
11) tc gamma-Chlord	13.28	13.24	15025904	138.8E6	0.685	1.693 #
12) tc alpha-Chlord	13.48	13.44	11036898	26569992	0.516	0.342 #
13) tc 4,4'-DDE	13.57	13.67	6805853	27745685	0.312	0.362
14) tcm Dieldrin	14.01	13.91	8814275	32249416	0.386	0.412
15) tcm Endrin	0.00	14.33	0	33175412	N.D.	0.493 #
16) tc KEPONE	14.46	0.00	7832812	0	1.071	N.D. #
17) tc beta-Endosul	0.00	14.67	0	9363259	N.D.	0.146 #
18) tc 4,4'-DDD	14.46	0.00	7832812	0	0.435	N.D. #
19) tcm 4,4'-DDT	14.87	14.97	5420703	9483866	0.283	0.145 #
20) tc Endrin Aldeh	0.00	15.15	0	18629208	N.D.	0.380 #
21) tc Endosulfan S	15.98	15.56	4303717	6313796	0.255	0.110 #
22) tc Methoxychlor	15.55	0.00	4600363	0	0.494	N.D. #
23) tc FAMPHUR	0.00	15.68	0	106.9E6	N.D.	2.559 #
26) L8C Toxaphene	14.82	0.00	4097360	0	10.273	N.D. #
27) L8C Toxaphene {2}	14.87	0.00	5420703	0	15.237	N.D. #
28) L8C Toxaphene {3}	0.00	15.15	0	18629208	N.D.	9.965 #
30) L8C Toxaphene {5}	16.56	0.00	1964092	0	2.951	N.D. #
Sum Toxaphene			11482155	18629208	28.460	9.965

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY070.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 12:31 pm
 Operator : M.PEDRO
 Sample : 1111487 10.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:50:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average Toxaphene					9.487	9.965
31) L9C Chlordane	11.60	11.43	333.2E6	28742597	417.972	8.889 #
33) L9C Chlordane {3}	0.00	12.37	0	29816888	N.D.	8.329 #
34) L9C Chlordane {4}	13.28	13.24	15025904	138.8E6	5.431	13.855 #
35) L9C Chlordane {5}	0.00	14.74	0	4499666	N.D.	1.276 #
Sum Chlordane			348.3E6	201.9E6	423.403	32.349
Average Chlordane					211.702	8.087

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-23B

Date Sampled : 06/25/08 08:00 Order #: 1112488 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.064	UG/L
BETA-BHC	0.047	0.047 U	UG/L
GAMMA-BHC	0.047	0.047 U	UG/L
DELTA-BHC	0.047	0.047 U	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.047 U	UG/L
HEXACHLOROBENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	97	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	76	%

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : ex921.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 5:49 pm
 Operator : M.PEDRO
 Sample : 1112488 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:01:14 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

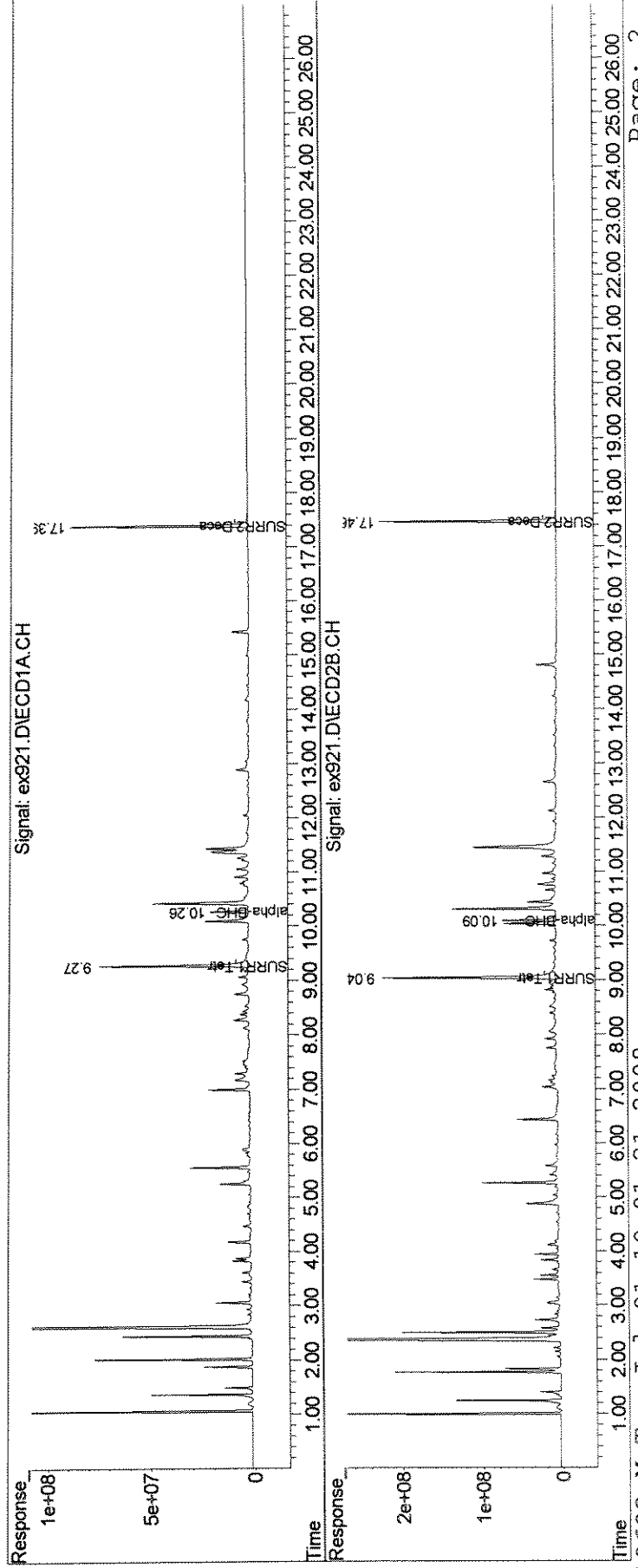
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1437.7E6	4370.2E6	76.340m	71.623m
Spiked Amount	100.000	Range	30 - 150	Recovery	=	76.34% 71.62%
25) S SURR2,Decachloro	17.39	17.46	1649.2E6	4001.5E6	96.557	91.671
Spiked Amount	100.000	Range	30 - 150	Recovery	=	96.56% 91.67%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	308.0E6	1248.9E6	10.255m	13.507m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex921.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 5:49 pm
 Operator : M.PEDRO
 Sample : 1112488 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:01:14 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

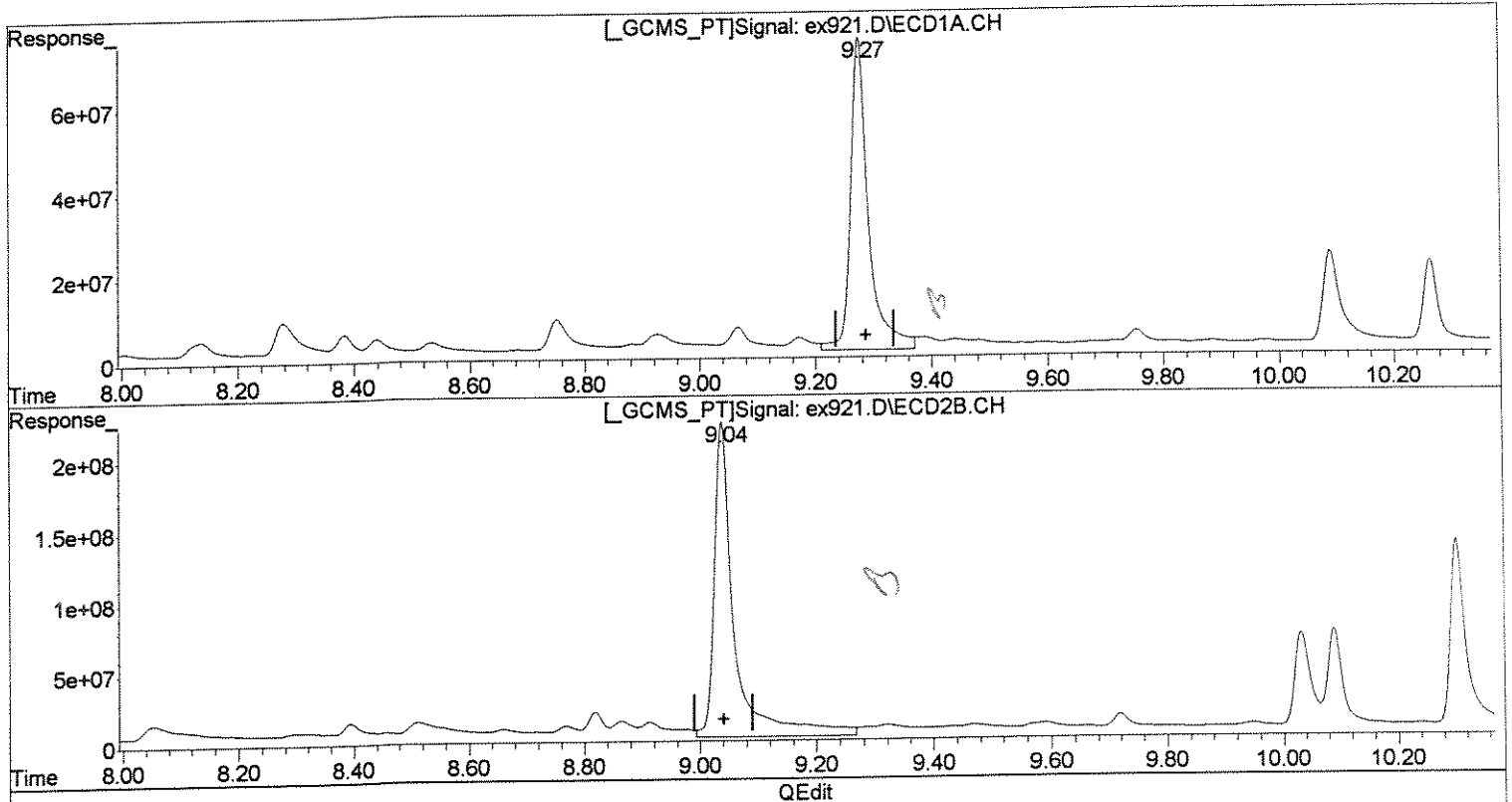


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 5:49 pm
Operator : M.PEDRO
Sample : 1112488 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
9.27min 83.425ug/l
response 1571181017

(1) SURR1,Tetrac #2 (S)
9.04min 87.667ug/l
response 5349065109

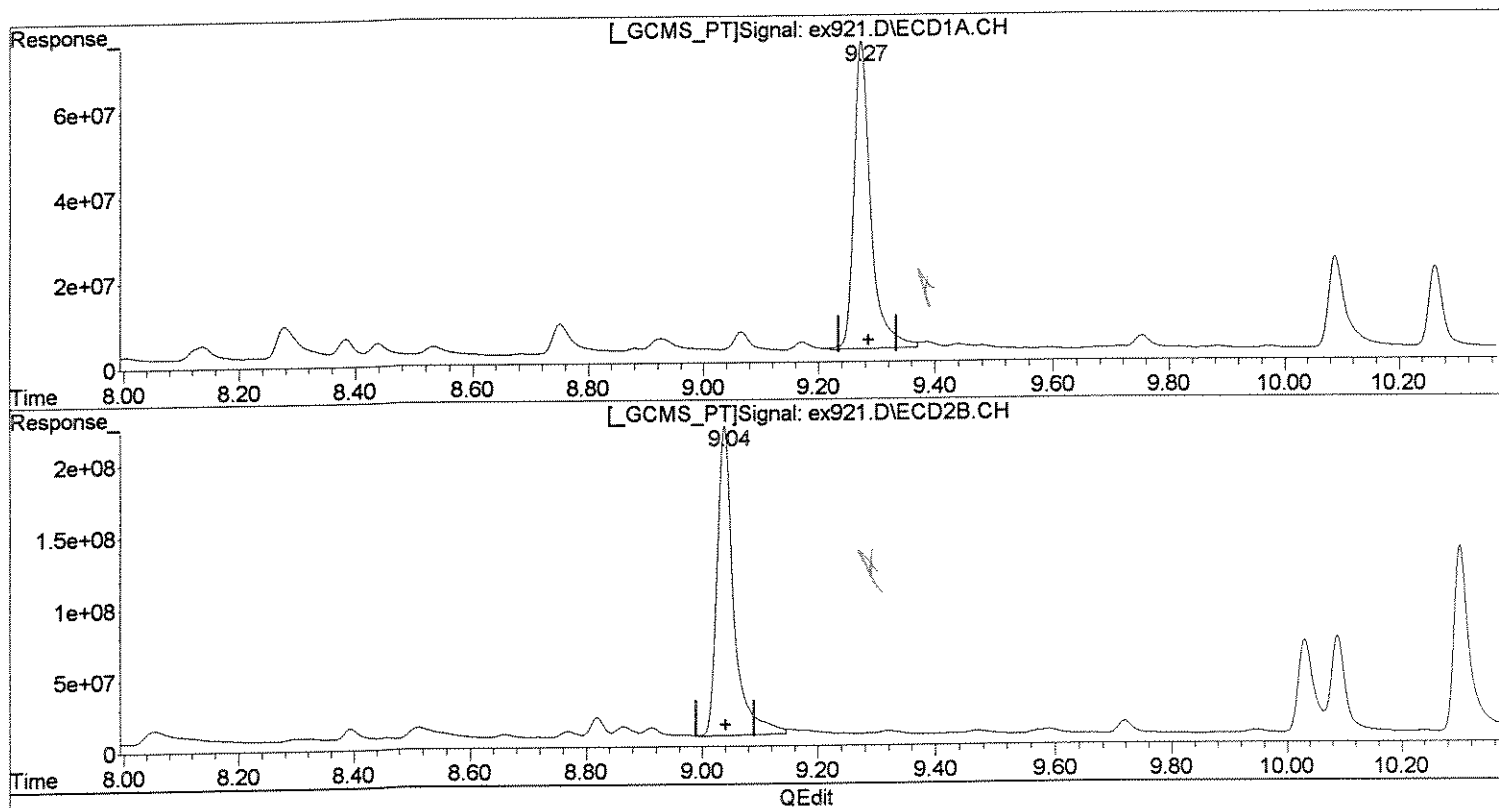
B

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 5:49 pm
Operator : M.PEDRO
Sample : 1112488 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
9.27min 76.340ug/l m
response 1437748130

(1) SURR1,Tetrac #2 (S)
9.04min 71.623ug/l m
response 4370167225

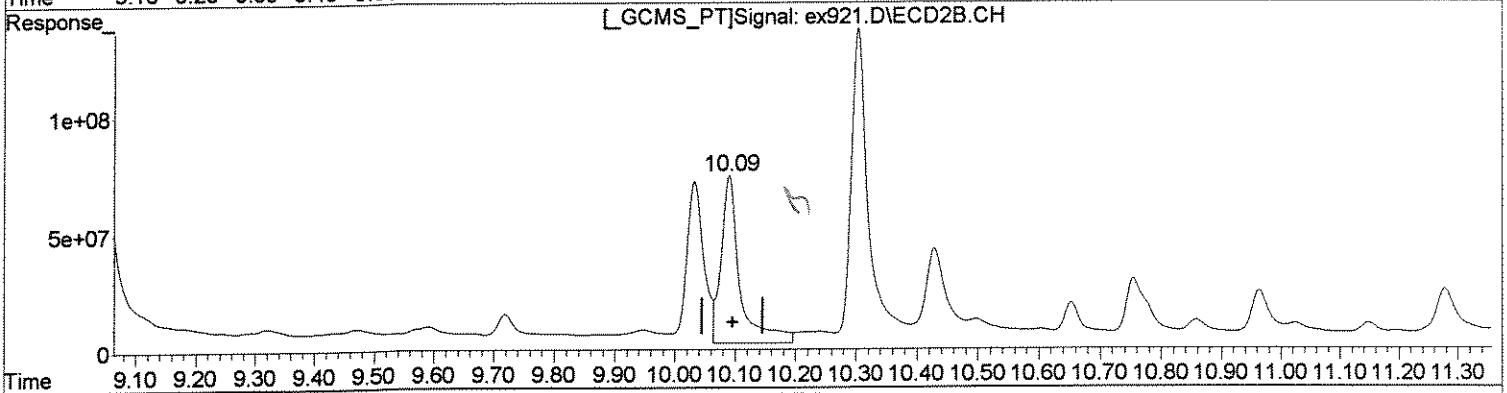
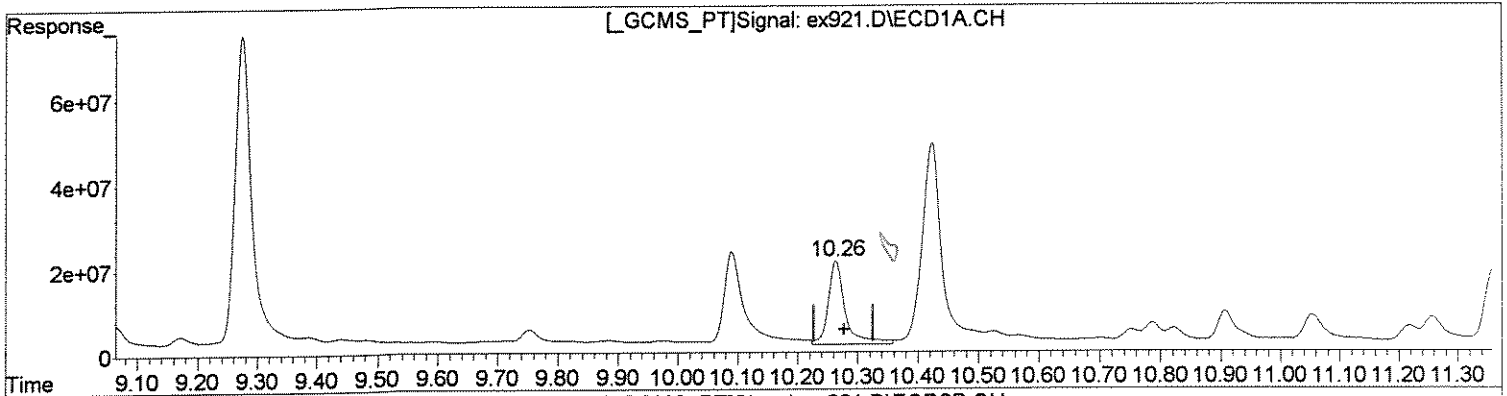
MW
7/1
MW
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 5:49 pm
Operator : M.PEDRO
Sample : 1112488 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 13.163ug/l
response 395288290

(3) alpha-BHC #2 (tc)
10.09min 16.764ug/l
response 1550141409

Bunch

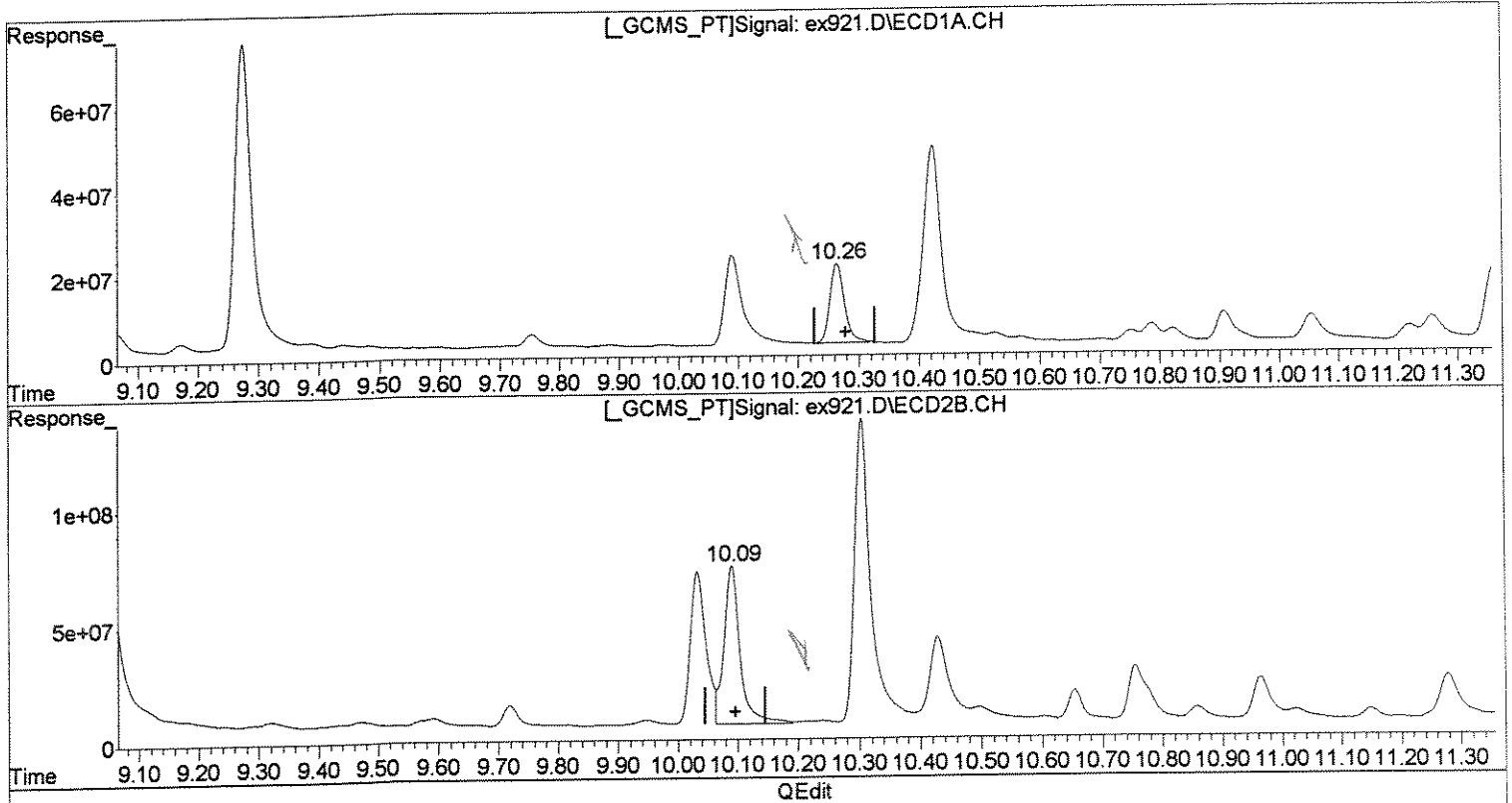
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 5:49 pm
Operator : M.PEDRO
Sample : 1112488 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 10.255ug/l m
response 307960465

(3) alpha-BHC #2 (tc)
10.09min 13.507ug/l m
response 1248940807

mw 7/1
by 7/1

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX921.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 5:49 pm
 Operator : M.PEDRO
 Sample : 1112488 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:30 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1571.2E6	5349.1E6	83.425	87.667
Spiked Amount	100.000	Range 30 - 150	Recovery =		83.42%	87.67%
25) S SURR2,Decachloro	17.39	17.46	1649.2E6	4001.5E6	96.557	91.671
Spiked Amount	100.000	Range 30 - 150	Recovery =		96.56%	91.67%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.87	49792091	95430320	1.833	1.084 #
3) tc alpha-BHC	10.26	10.09	395.3E6	1550.1E6	13.163	16.764 #
4) tcm gamma-BHC (L	10.79	10.65	91443935	444.1E6	3.327	5.405 #
6) tcm Aldrin	11.98	11.79	30019583	182.0E6	1.220	2.428 #
8) tc delta-BHC	11.22	11.28	82203685	751.2E6	2.972	9.040 #
9) tc Heptachlor E	12.89	12.61	187.0E6	101.0E6	8.116	1.502 #
11) tc gamma-Chlord	0.00	12.88	0	272.2E6	N.D.	3.903 #
13) tc 4,4'-DDE	13.37	13.35	29066343	121.4E6	1.293	1.863 #
14) tcm Dieldrin	0.00	13.56	0	104.0E6	N.D.	1.594 #
15) tcm Endrin	14.18	13.98	86061288	100.5E6	4.126	1.772 #
16) tc KEPONE	0.00	14.17	0	79134185	N.D.	4.626 #
17) tc beta-Endosul	0.00	14.28	0	102.9E6	N.D.	1.877 #
19) tcm 4,4'-DDT	0.00	14.58	0	222.8E6	N.D.	4.065 #
20) tc Endrin Aldeh	15.13	0.00	10223152	0	0.692	N.D. #
21) tc Endosulfan S	15.78	15.18	9043517	81660757	0.499	1.645 #
23) tc FAMPHUR	0.00	15.32	0	115.5E6	N.D.	3.632 #
26) L8C Toxaphene	14.61	14.42	32927931	90846117	78.849	55.446 #
27) L8C Toxaphene {2}	0.00	14.70	0	71761817	N.D.	93.283 #
28) L8C Toxaphene {3}	0.00	14.80	0	739.6E6	N.D.	447.661 #
29) L8C Toxaphene {4}	0.00	16.08	0	12567683	N.D.	7.726 #
30) L8C Toxaphene {5}	16.34	16.31	10098199	1147412	14.957	0.659 #
Sum Toxaphene			43026130	915.9E6	93.806	604.776
Average Toxaphene					46.903	120.955
31) L9C Chlordane	11.43	0.00	681.9E6	0	891.072	N.D. #
33) L9C Chlordane {3}	0.00	12.03	0	105.5E6	N.D.	37.988 #

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX921.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 5:49 pm
 Operator : M.PEDRO
 Sample : 1112488 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:30 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

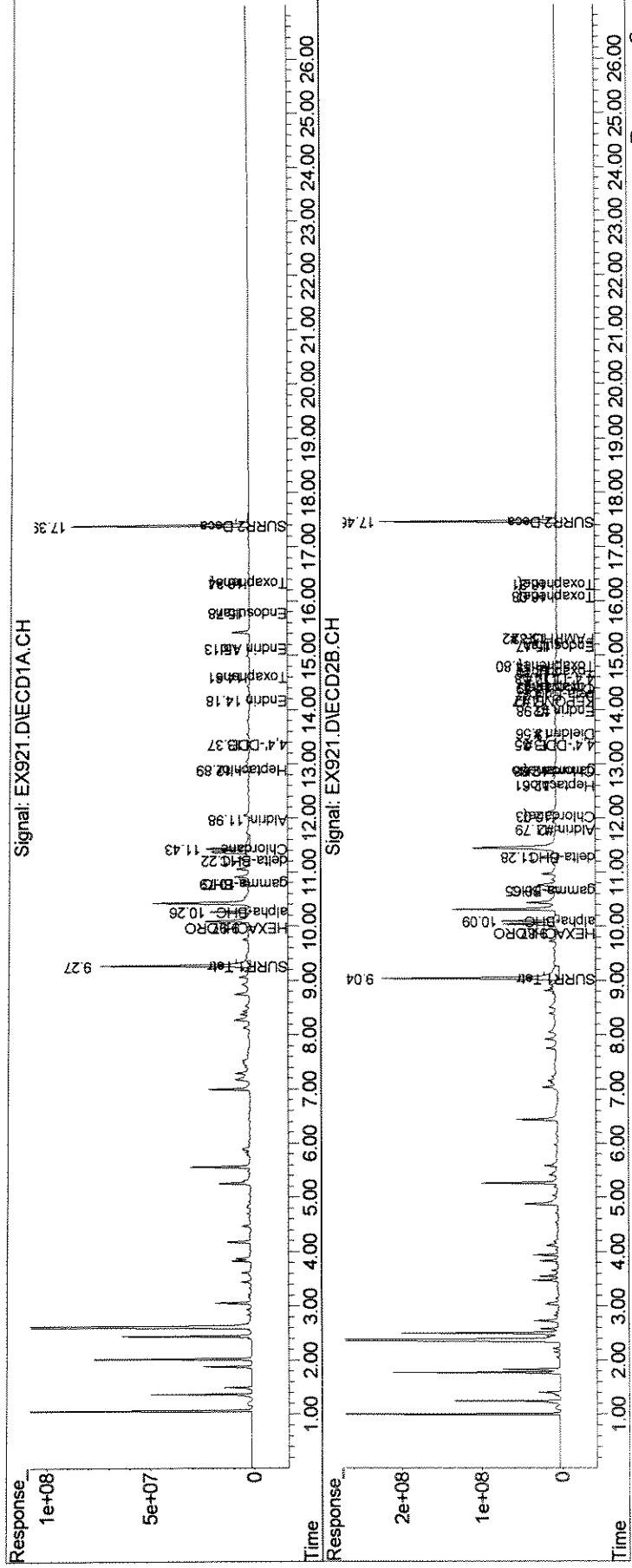
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34) L9C Chlordane{4}	0.00	12.88	0	272.2E6	N.D.	34.392 #
35) L9C Chlordane{5}	0.00	14.39	0	44680329	N.D.	14.674 #
Sum Chlordane			681.9E6	422.3E6	891.072	87.053
Average Chlordane					891.072	29.018

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\063008\
 Data File : EX921.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 5:49 pm
 Operator : M.PEDRO
 Sample : 1112488 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:30 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-97B

Date Sampled : 06/25/08 09:30 Order #: 1112489 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	1.6 E	UG/L
BETA-BHC	0.047	2.6 E	UG/L
GAMMA-BHC	0.047	0.077	UG/L
DELTA-BHC	0.047	0.26	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.047 U	UG/L
HEXACHLORO BENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	89	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	89	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex922.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 6:25 pm
 Operator : M.PEDRO
 Sample : 1112489 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:03:41 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S SURR1,Tetrac	9.27	9.03	1565.4E6	5458.8E6	83.118	89.466
Spiked Amount	100.000	Range	30 - 150	Recovery	=	83.12% 89.47%
25) S SURR2,Decachloro	17.39	17.46	1528.1E6	3643.4E6	89.465	83.468
Spiked Amount	100.000	Range	30 - 150	Recovery	=	89.47% 83.47%

Target Compounds

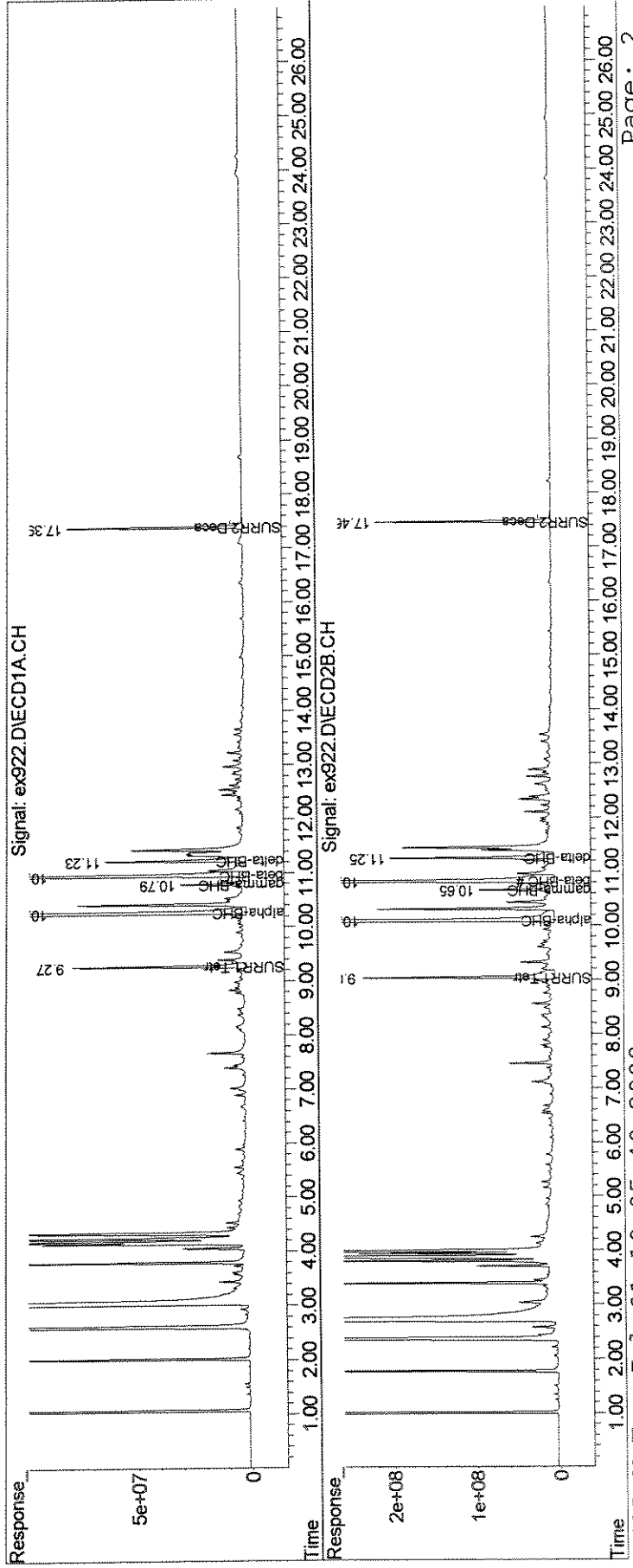
3) tc alpha-BHC	10.26	10.09	10183.0E6	27625.7E6	339.084	298.764
4) tcm gamma-BHC (L	10.79	10.65	446.4E6	1328.6E6	16.237m	16.171m
7) tc beta-BHC	10.95	10.82	6478.9E6	19199.2E6	561.161	538.199
8) tc delta-BHC	11.23	11.25	1410.0E6	4529.8E6	50.983	54.515
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\063008\
Data File : ex922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 6:25 pm
Operator : M.PEDRO
Sample : 1112489 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 10:03:41 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

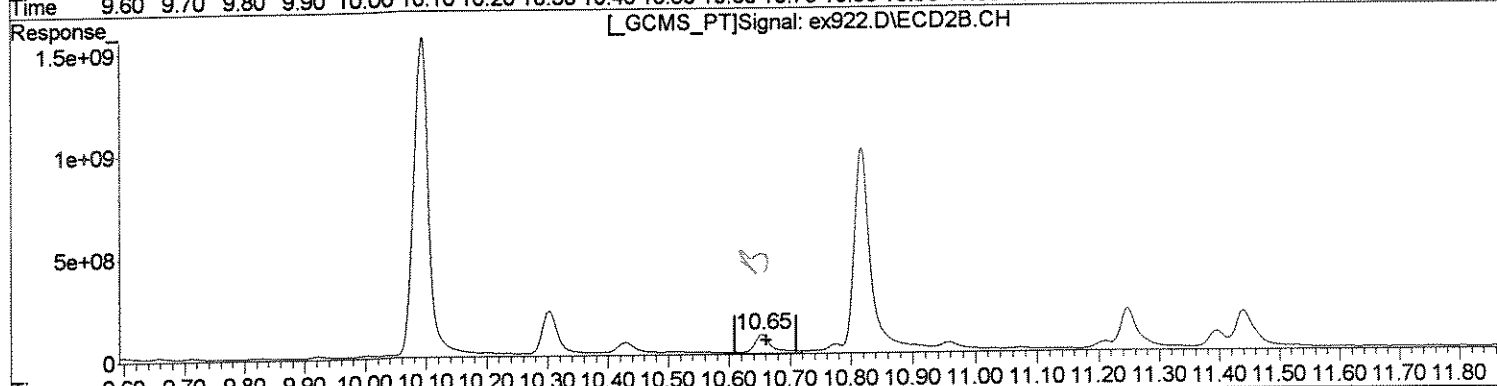
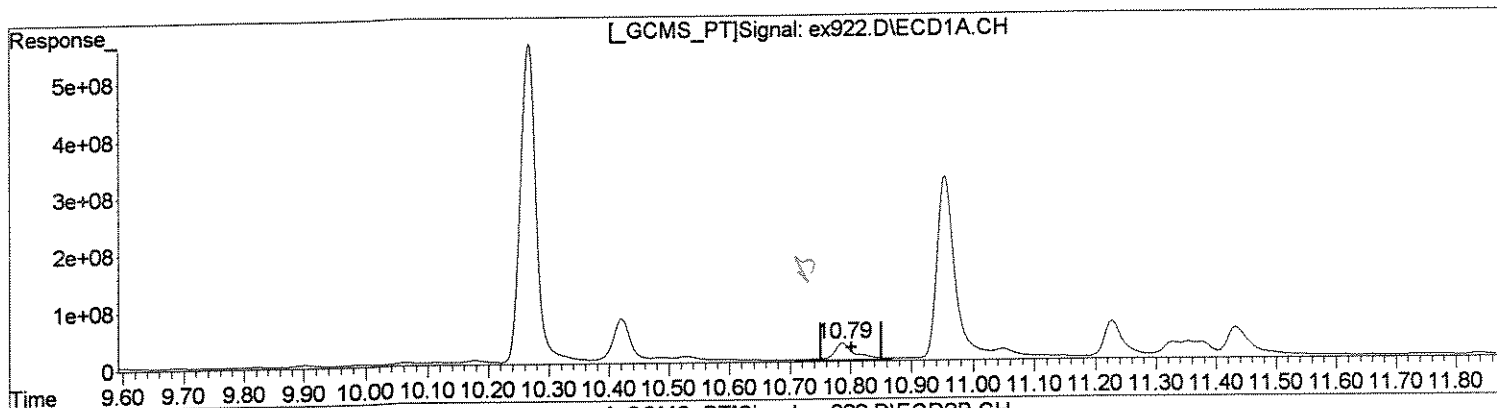


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 6:25 pm
Operator : M.PEDRO
Sample : 1112489 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:37 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm))
10.79min 27.820ug/l
response 764757457

(4) gamma-BHC (L #2 (tcm))
10.65min 22.527ug/l
response 1850763902

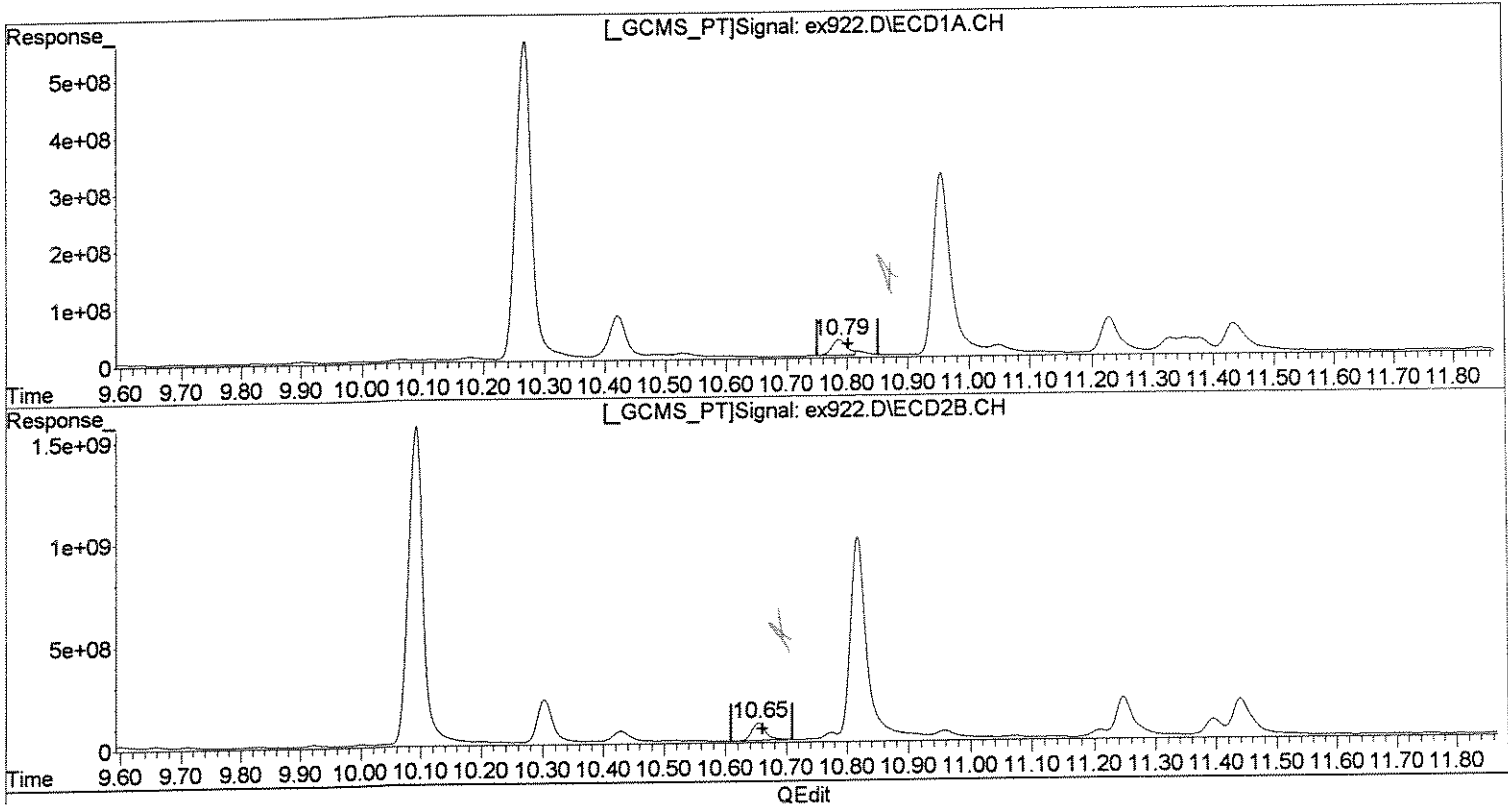
BAK

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 6:25 pm
Operator : M.PEDRO
Sample : 1112489 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:37 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)
10.79min 16.237ug/l m
response 446350198

(4) gamma-BHC (L #2 (tcm)
10.65min 16.171ug/l m
response 1328565263

MWJ
7/1

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX922.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 6:25 pm
 Operator : M.PEDRO
 Sample : 1112489 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:37 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

1) S SURR1,Tetrac	9.27	9.03	1565.4E6	5458.8E6	83.118	89.466
Spiked Amount	100.000	Range	30 - 150	Recovery =	83.12%	89.47%
25) S SURR2,Decachloro	17.39	17.46	1528.1E6	3643.4E6	89.465	83.468
Spiked Amount	100.000	Range	30 - 150	Recovery =	89.47%	83.47%

Target Compounds

2) TC HEXACHLOROBENZEN	9.99	0.00	99012749	0	3.645	N.D. #
3) tc alpha-BHC	10.26	10.09	10183.0E6	27625.7E6	339.084	298.764
4) tcm gamma-BHC (L	10.79	10.65	764.8E6	1850.8E6	27.820	22.527
6) tcm Aldrin	12.00	11.76	43282247	213.3E6	1.759	2.846 #
7) tc beta-BHC	10.95	10.82	6478.9E6	19199.2E6	561.161	538.199
8) tc delta-BHC	11.23	11.25	1410.0E6	4529.8E6	50.983	54.515
9) tc Heptachlor E	12.87	12.62	115.4E6	746.2E6	5.007	11.105 #
10) tc alpha-Endosu	13.49	13.16	40875752	81992361	1.984	1.376 #
11) tc gamma-Chlord	13.09	12.89	115.0E6	784.7E6	5.045	11.254 #
12) tc alpha-Chlord	0.00	13.08	0	268.1E6	N.D.	4.037 #
13) tc 4,4'-DDE	13.37	0.00	63252799	0	2.814	N.D. #
14) tcm Dieldrin	13.81	13.54	114.0E6	497.6E6	4.894	7.625 #
15) tcm Endrin	14.15	13.98	12277976	96292714	0.589	1.698 #
17) tc beta-Endosul	0.00	14.28	0	65190253	N.D.	1.189 #
19) tcm 4,4'-DDT	0.00	14.58	0	94263756	N.D.	1.720 #
20) tc Endrin Aldeh	15.14	14.77	14653046	120.6E6	0.992	2.997 #
23) tc FAMPHUR	0.00	15.30	0	36031873	N.D.	1.134 #
24) tc Endrin Keton	16.16	0.00	8679366	0	0.416	N.D. #
26) L8C Toxaphene	14.61	14.41	45078204	67222422	107.944	41.028 #
27) L8C Toxaphene {2}	0.00	14.70	0	32833695	N.D.	42.680 #
29) L8C Toxaphene {4}	16.16	16.10	8679366	12876627	9.764	7.916
30) L8C Toxaphene {5}	16.36	16.33	62400969	69029661	92.424	39.633 #
Sum Toxaphene			116.2E6	182.0E6	210.132	131.257
Average Toxaphene					70.044	32.814
31) L9C Chlordane	11.43	11.10	1637.3E6	179.9E6	2139.662	71.416 #

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX922.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 6:25 pm
 Operator : M.PEDRO
 Sample : 1112489 1.0
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:37 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

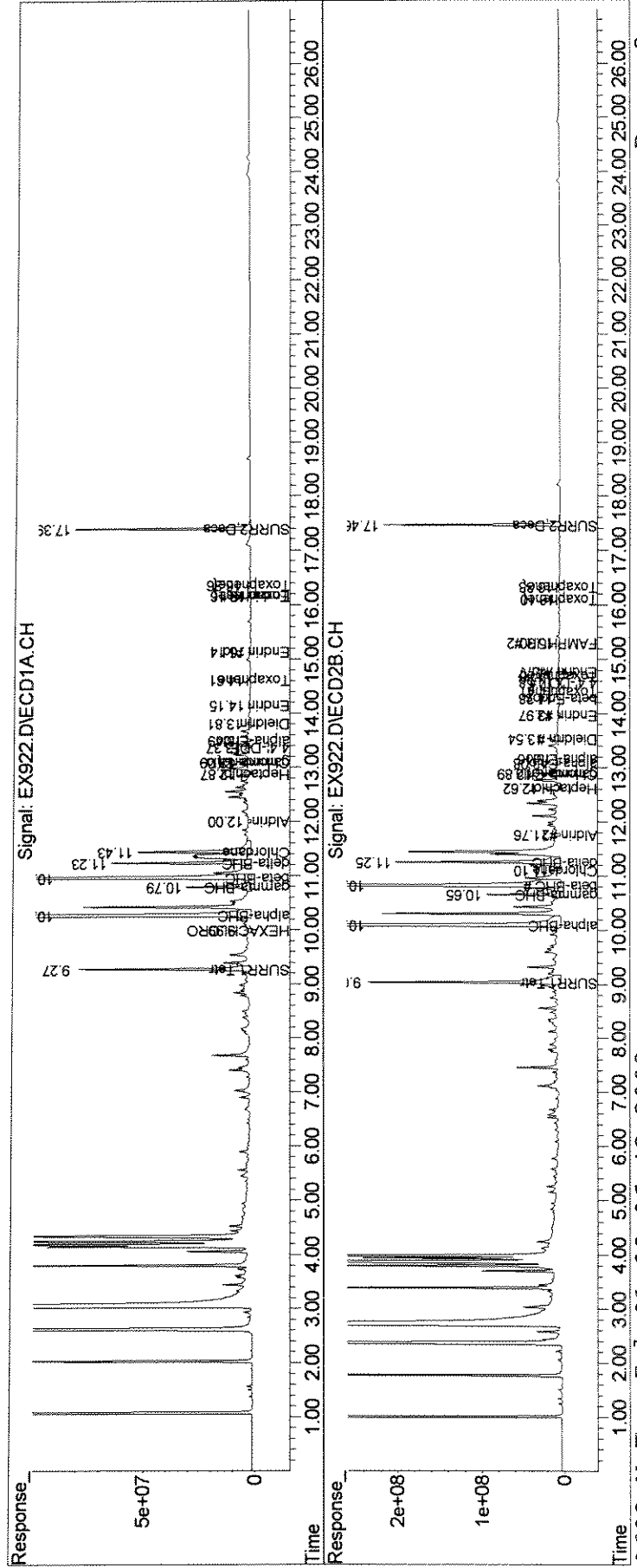
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34) L9C Chlordane{4}	13.09	12.89	115.0E6	784.7E6	42.010	99.160 #
Sum Chlordane			1752.3E6	964.5E6	2181.672	170.577
Average Chlordane					1090.836	85.288

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 6:25 pm
Operator : M.PEDRO
Sample : 1112489 1.0
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:37 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01104

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : MC-97B

Date Sampled : 06/25/08 09:30 Order #: 1112489 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 07/11/08		
ANALYTICAL DILUTION:	20.00		
ALDRIN	0.047	0.94 U	UG/L
ALPHA-BHC	0.047	2.2 D	UG/L
BETA-BHC	0.047	4.1 D	UG/L
GAMMA-BHC	0.047	0.94 U	UG/L
DELTA-BHC	0.047	0.94 U	UG/L
ALPHA-CHLORDANE	0.047	0.94 U	UG/L
GAMMA-CHLORDANE	0.047	0.94 U	UG/L
CHLORDANE	0.24	4.8 U	UG/L
4,4'-DDE	0.047	0.94 U	UG/L
4,4'-DDT	0.047	0.94 U	UG/L
DIELDRIN	0.094	1.9 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.94 U	UG/L
BETA-ENDOSULFAN	0.094	1.9 U	UG/L
ENDOSULFAN SULFATE	0.094	1.9 U	UG/L
ENDRIN	0.047	0.94 U	UG/L
ENDRIN ALDEHYDE	0.094	1.9 U	UG/L
ENDRIN KETONE	0.094	1.9 U	UG/L
HEPTACHLOR	0.047	0.94 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.94 U	UG/L
HEXACHLOROBENZENE	0.047	0.94 U	UG/L
METHOXYCHLOR	0.47	9.4 U	UG/L
4,4'-TDE (DDD)	0.047	0.94 U	UG/L
TOXAPHENE	0.94	19 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	D	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	D	%

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : ey075.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 3:29 pm
 Operator : M.PEDRO
 Sample : 1111489 20.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 42 Sample Multiplier: 1

REF

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:22:33 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

REF
7/21

Target Compounds

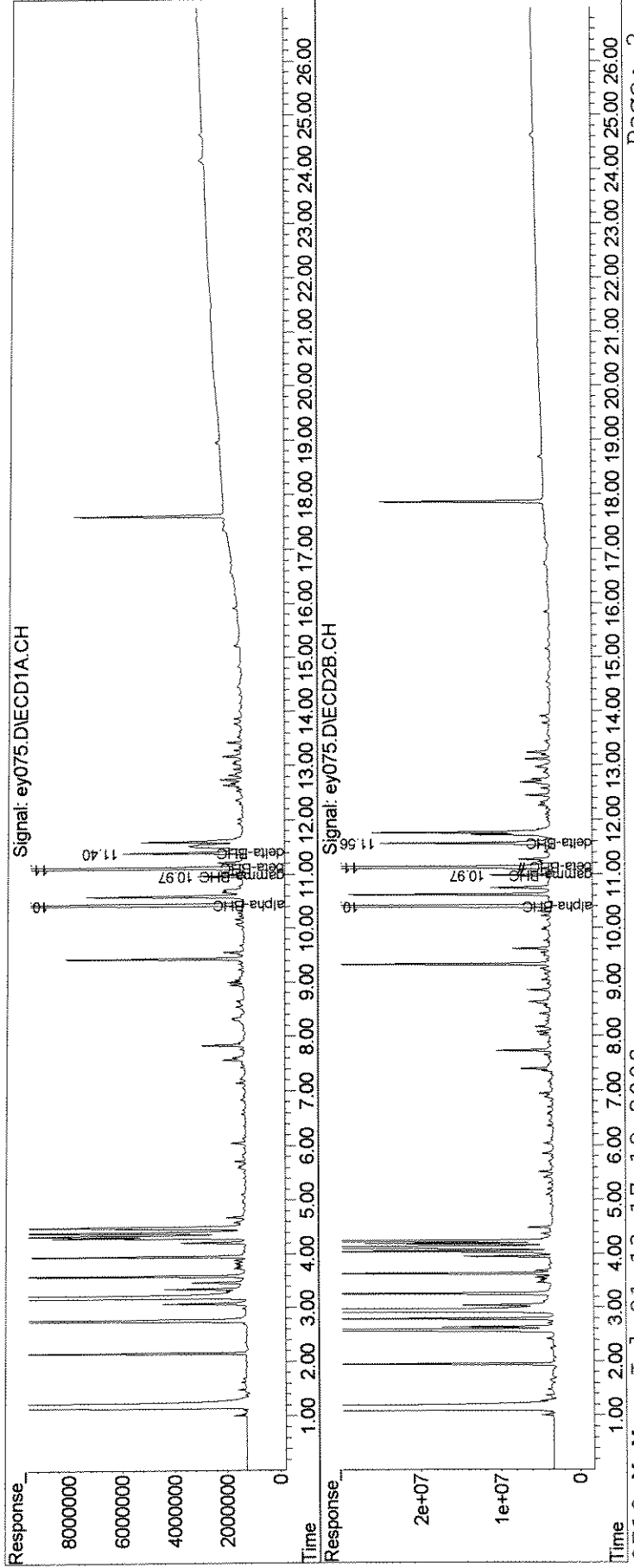
3) tc alpha-BHC	10.44	10.40	717.4E6	2815.8E6	23.204	23.727
4) tcm gamma-BHC (L)	10.97	10.97	29284224	113.4E6	1.038	1.080
7) tc beta-BHC	11.12	11.12	473.0E6	1974.3E6	41.195	43.748
8) tc delta-BHC	11.40	11.56	87852080	450.5E6	3.230	4.364 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey075.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 3:29 pm
Operator : M.PEDRO
Sample : 1111489 20.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 07:22:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY075.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 3:29 pm
 Operator : M.PEDRO
 Sample : 1111488720.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 06:44:21 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	104.3E6	482.7E6	5.166	5.965
Spiked Amount	100.000	Range 30 - 150	Recovery =		5.17%#	5.96%#
25) S SURR2,Decachloro	17.61	17.86	105.8E6	360.7E6	6.061	6.550
Spiked Amount	100.000	Range 30 - 150	Recovery =		6.06%#	6.55%#
Target Compounds						
2) TC HEXACHLOROBENZEN	0.00	10.14	0	34665320	N.D.	0.285 #
3) tc alpha-BHC	10.44	10.40	717.4E6	2815.8E6	23.204	23.727
4) tcm gamma-BHC (L	10.97	10.97	29284224	113.4E6	1.038	1.080
6) tcm Aldrin	0.00	12.10	0	15137182	N.D.	0.166 #
7) tc beta-BHC	11.12	11.12	473.0E6	1974.3E6	41.195	43.748
8) tc delta-BHC	11.40	11.56	87852080	450.5E6	3.230	4.364 #
9) tc Heptachlor E	0.00	12.97	0	65618378	N.D.	0.816 #
10) tc alpha-Endosu	0.00	13.51	0	4236725	N.D.	0.060 #
11) tc gamma-Chlord	13.28	13.23	6386279	68199198	0.291	0.831 #
12) tc alpha-Chlord	0.00	13.44	0	15782466	N.D.	0.203 #
13) tc 4,4'-DDE	0.00	13.67	0	7712541	N.D.	0.101 #
14) tcm Dieldrin	0.00	13.91	0	27937110	N.D.	0.357 #
15) tcm Endrin	0.00	14.34	0	3467883	N.D.	0.051 #
16) tc KEPONE	14.46	14.54	4385704	18415832	0.599	0.801 #
17) tc beta-Endosul	0.00	14.67	0	6932900	N.D.	0.108 #
18) tc 4,4'-DDD	14.46	0.00	4385704	0	0.244	N.D. #
19) tcm 4,4'-DDT	0.00	14.97	0	8512405	N.D.	0.130 #
20) tc Endrin Aldeh	0.00	15.15	0	14469183	N.D.	0.295 #
22) tc Methoxychlor	0.00	15.92	0	1550343	N.D.	0.053 #
23) tc FAMPHUR	0.00	15.68	0	797635	N.D.	0.019 #
24) tc Endrin Keton	16.37	16.31	1175334	5049553	0.061	0.080 #
26) L8C Toxaphene	0.00	14.80	0	2002902	N.D.	1.035 #
27) L8C Toxaphene{2}	0.00	15.05	0	1245502	N.D.	1.381 #
28) L8C Toxaphene{3}	0.00	15.15	0	14469183	N.D.	7.740 #
Sum Toxaphene			0	17717587	N.D.	10.156
Average Toxaphene					0.000	3.385

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY075.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 3:29 pm
 Operator : M.PEDRO
 Sample : 1111488 20.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 06:44:21 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

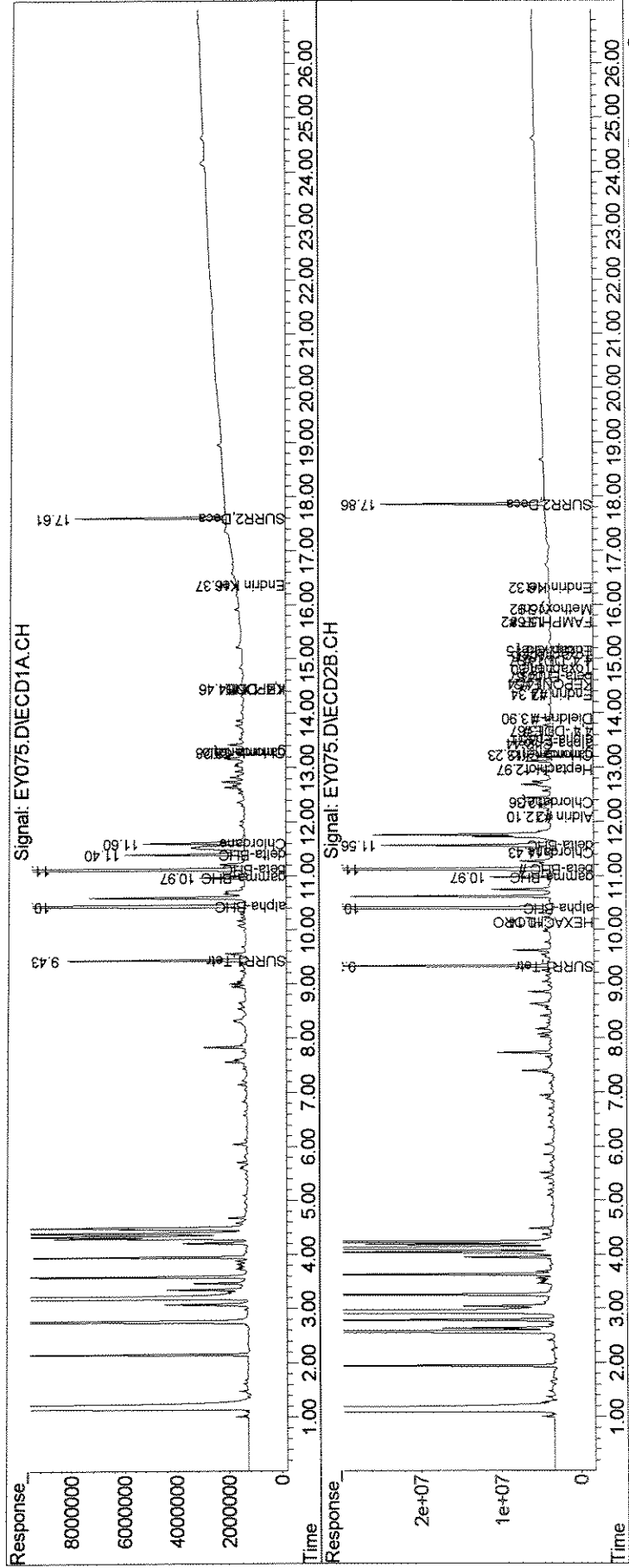
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) L9C Chlordane	11.60	11.44	89959955	19186662	112.834	5.934 #
33) L9C Chlordane{3}	0.00	12.36	0	8578707	N.D.	2.396 #
34) L9C Chlordane{4}	13.28	13.23	6386279	68199198	2.308	6.806 #
Sum Chlordane			96346234	95964566	115.142	15.136
Average Chlordane					57.571	5.045

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY075.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 3:29 pm
Operator : M.PEDRO
Sample : 1111488 20.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 06:44:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01110

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : MC-94B

Date Sampled : 06/25/08 14:31 Order #: 1112809 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.051	0.051 U	UG/L
ALPHA-BHC	0.051	2.2 E	UG/L
BETA-BHC	0.051	0.16	UG/L
GAMMA-BHC	0.051	0.14	UG/L
DELTA-BHC	0.051	0.36	UG/L
ALPHA-CHLORDANE	0.051	0.051 U	UG/L
GAMMA-CHLORDANE	0.051	0.070	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.051	0.051 U	UG/L
4,4'-DDT	0.051	0.051 U	UG/L
DIELDRIN	0.10	0.10 U	UG/L
ALPHA-ENDOSULFAN	0.051	0.051 U	UG/L
BETA-ENDOSULFAN	0.10	0.10 U	UG/L
ENDOSULFAN SULFATE	0.10	0.10 U	UG/L
ENDRIN	0.051	0.051 U	UG/L
ENDRIN ALDEHYDE	0.10	0.10 U	UG/L
ENDRIN KETONE	0.10	0.10 U	UG/L
HEPTACHLOR	0.051	0.051 U	UG/L
HEPTACHLOR EPOXIDE	0.051	0.051 U	UG/L
HEXACHLOROBENZENE	0.051	0.051 U	UG/L
METHOXYCHLOR	0.51	0.51 U	UG/L
4,4'-TDE (DDD)	0.051	0.051 U	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	92	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	90	%

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : ex923.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 7:00 pm
 Operator : M.PEDRO
 Sample : 1112809 1.
 Misc : 06/27/08 198 ensr r44650 8081
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:08:31 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1700.3E6	5059.4E6	90.280	82.919
Spiked Amount	100.000	Range	30 - 150	Recovery =	90.28%	82.92%
25) S SURR2,Decachloro	17.39	17.46	1578.1E6	3788.4E6	92.396m	86.788
Spiked Amount	100.000	Range	30 - 150	Recovery =	92.40%	86.79%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	13022.5E6	33921.6E6	433.639	366.852
4) tcm gamma-BHC (L	10.79	10.65	792.8E6	2152.2E6	28.842m	26.196m
7) tc beta-BHC	10.96	10.82	280.7E6	1099.1E6	24.314m	30.812m#
8) tc delta-BHC	11.23	11.25	1994.8E6	5703.1E6	72.126m	68.635m
11) tc gamma-Chlord	13.09	12.89	204.3E6	972.7E6	8.962m	13.951m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

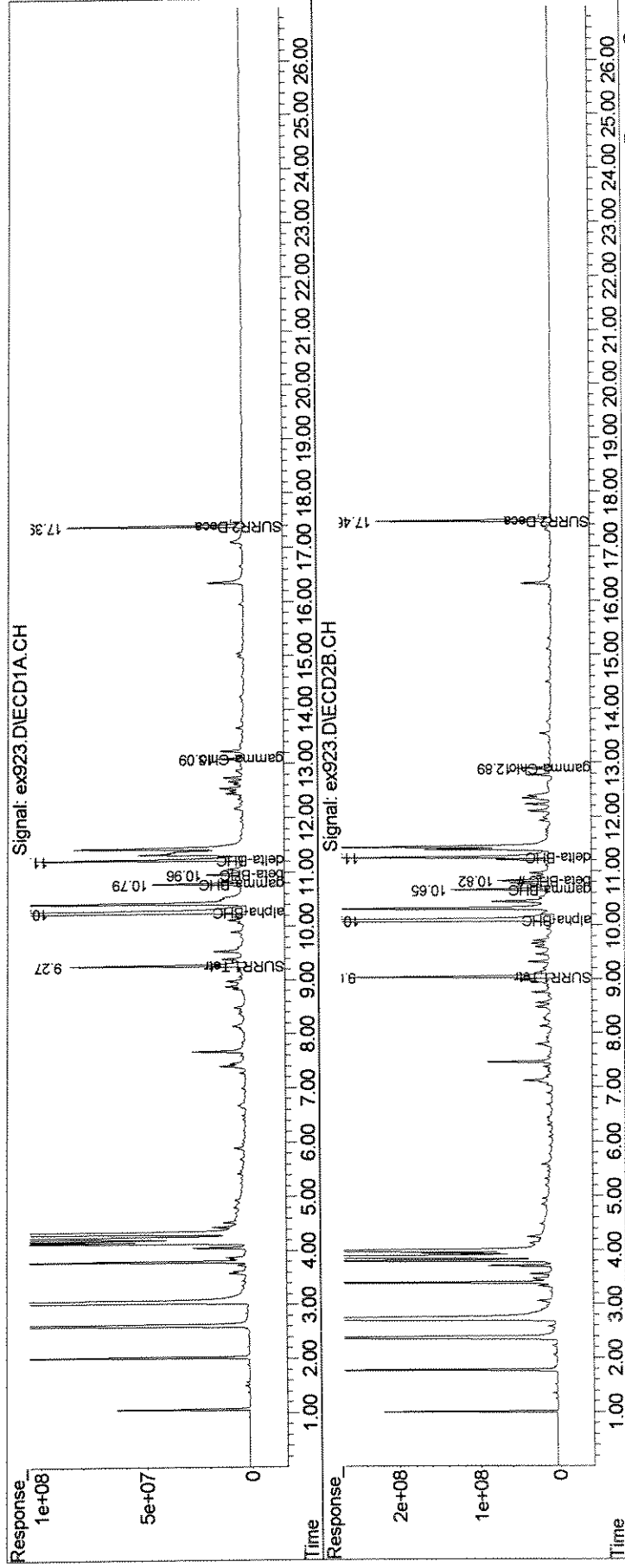
M.P.
7/1
1/10

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 10:08:31 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

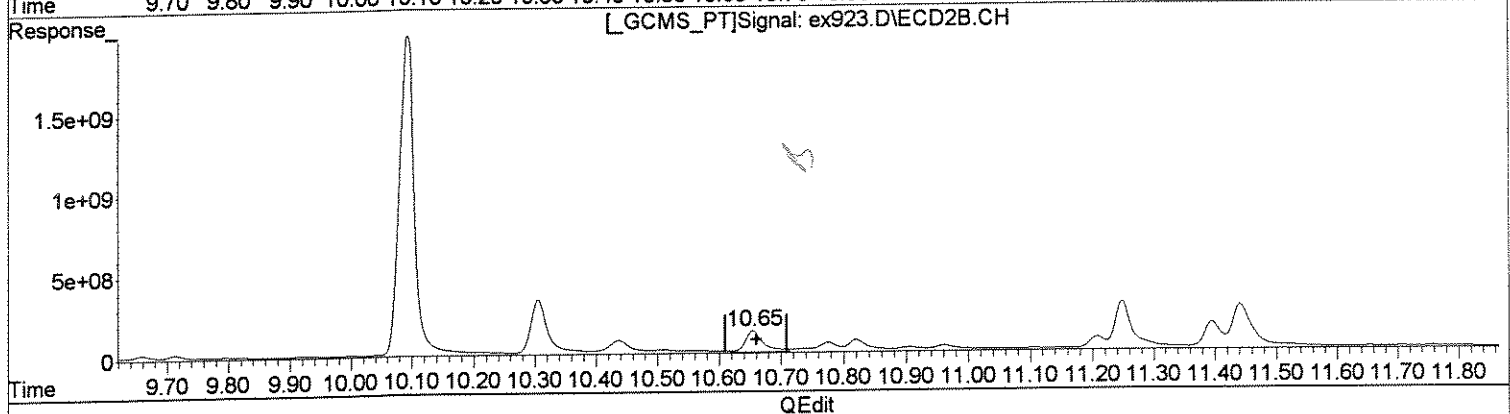
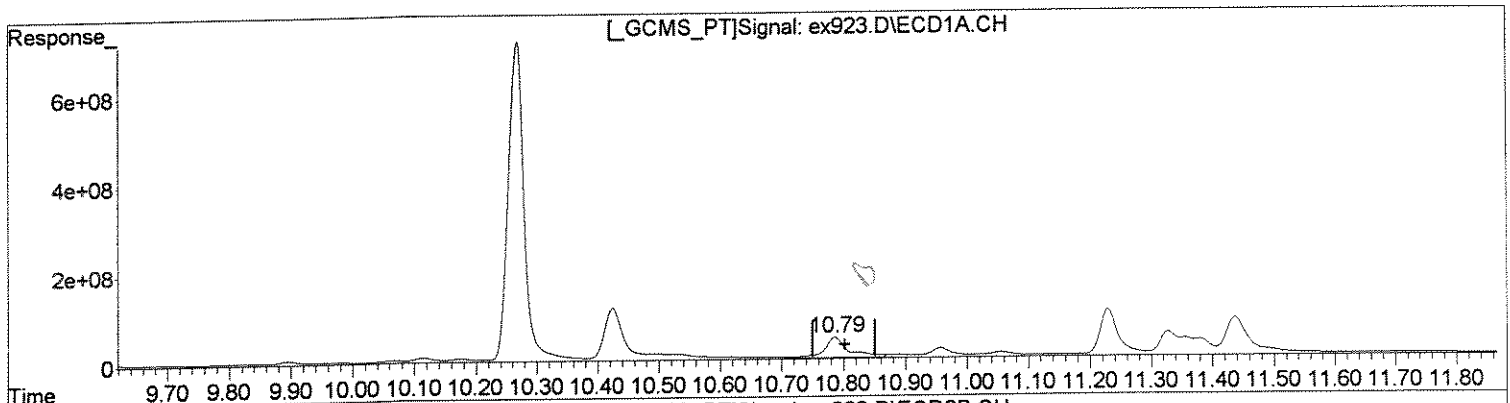


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)
10.79min 44.718ug/l
response 1229254498

(4) gamma-BHC (L #2 (tcm)
10.65min 31.786ug/l
response 2611483194

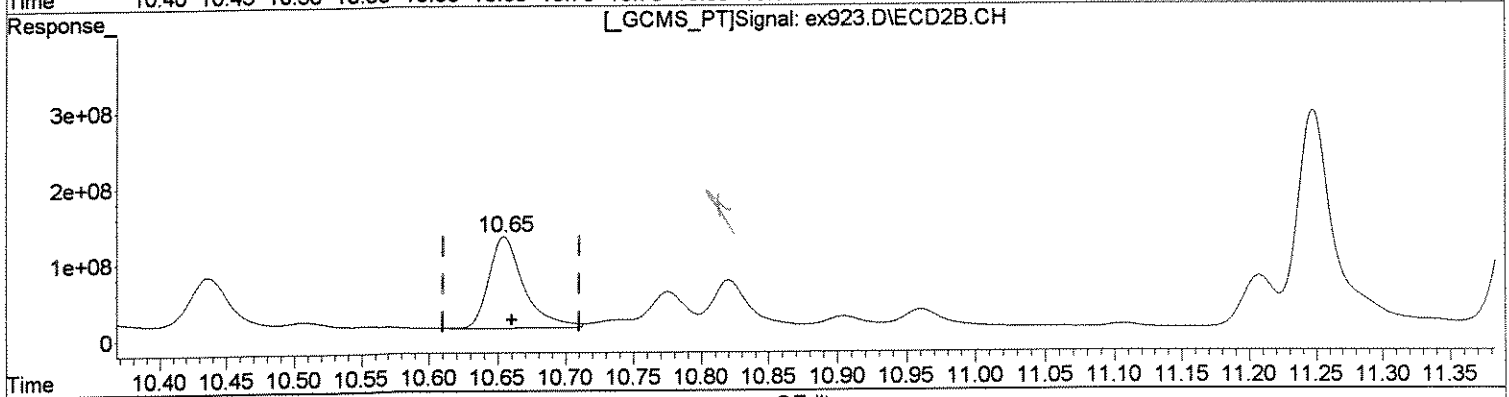
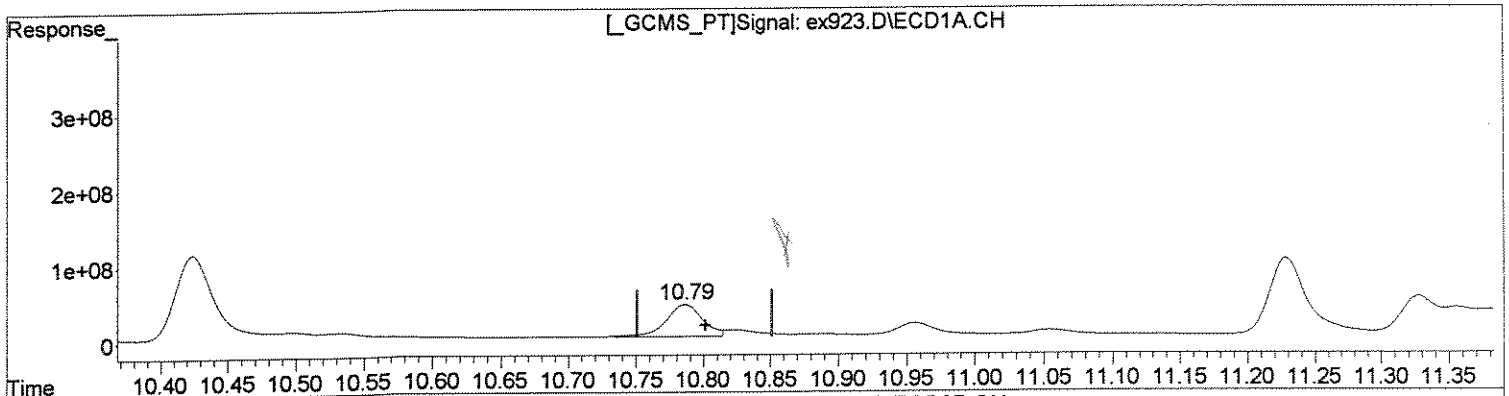
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)
10.79min 28.842ug/l m
response 792827902

(4) gamma-BHC (L #2 (tcm)
10.65min 26.196ug/l m
response 2152187115

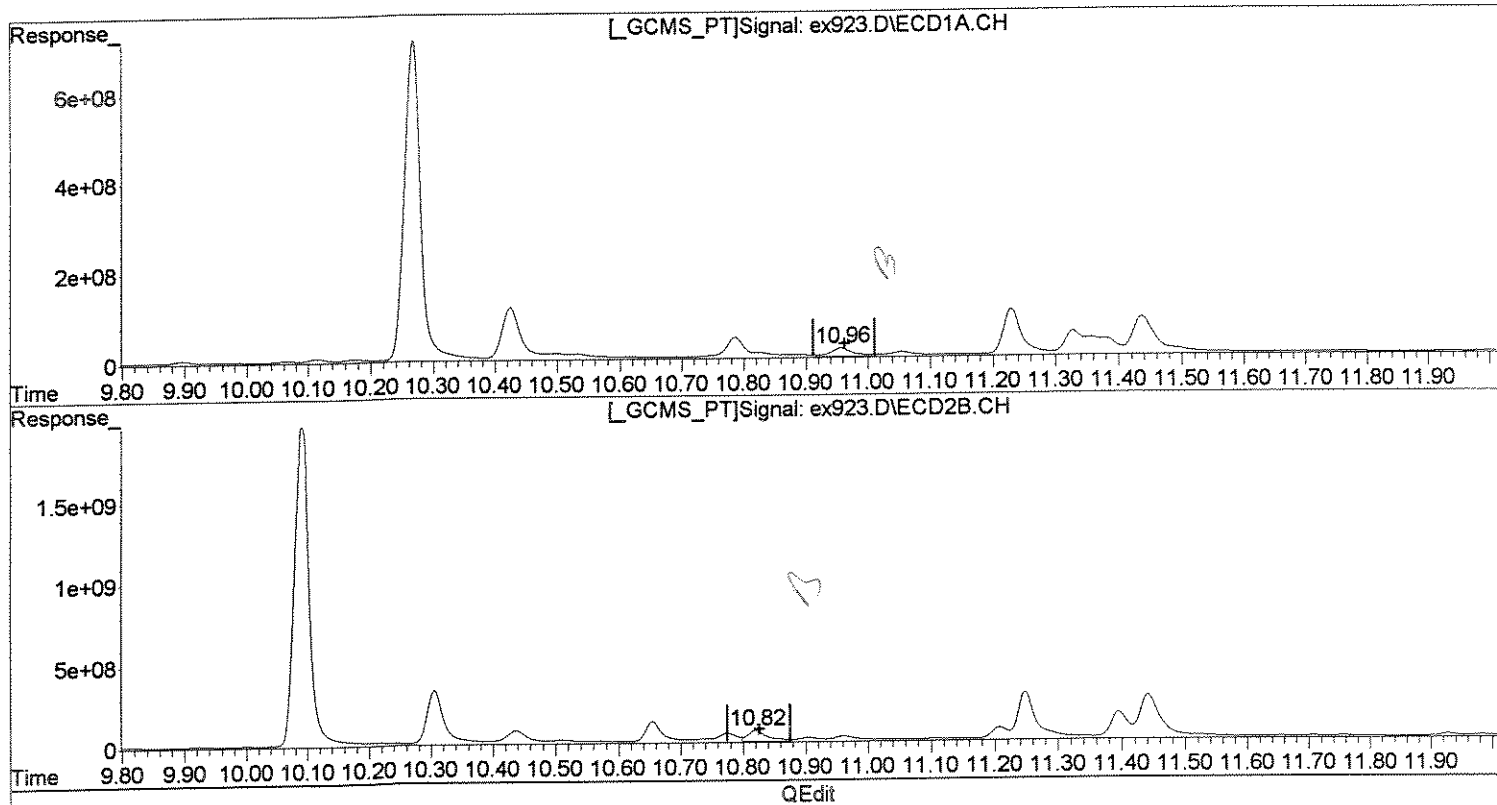
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
10.96min 42.715ug/l
response 493169857

(7) beta-BHC #2 (tc)
10.82min 44.305ug/l
response 1580496538

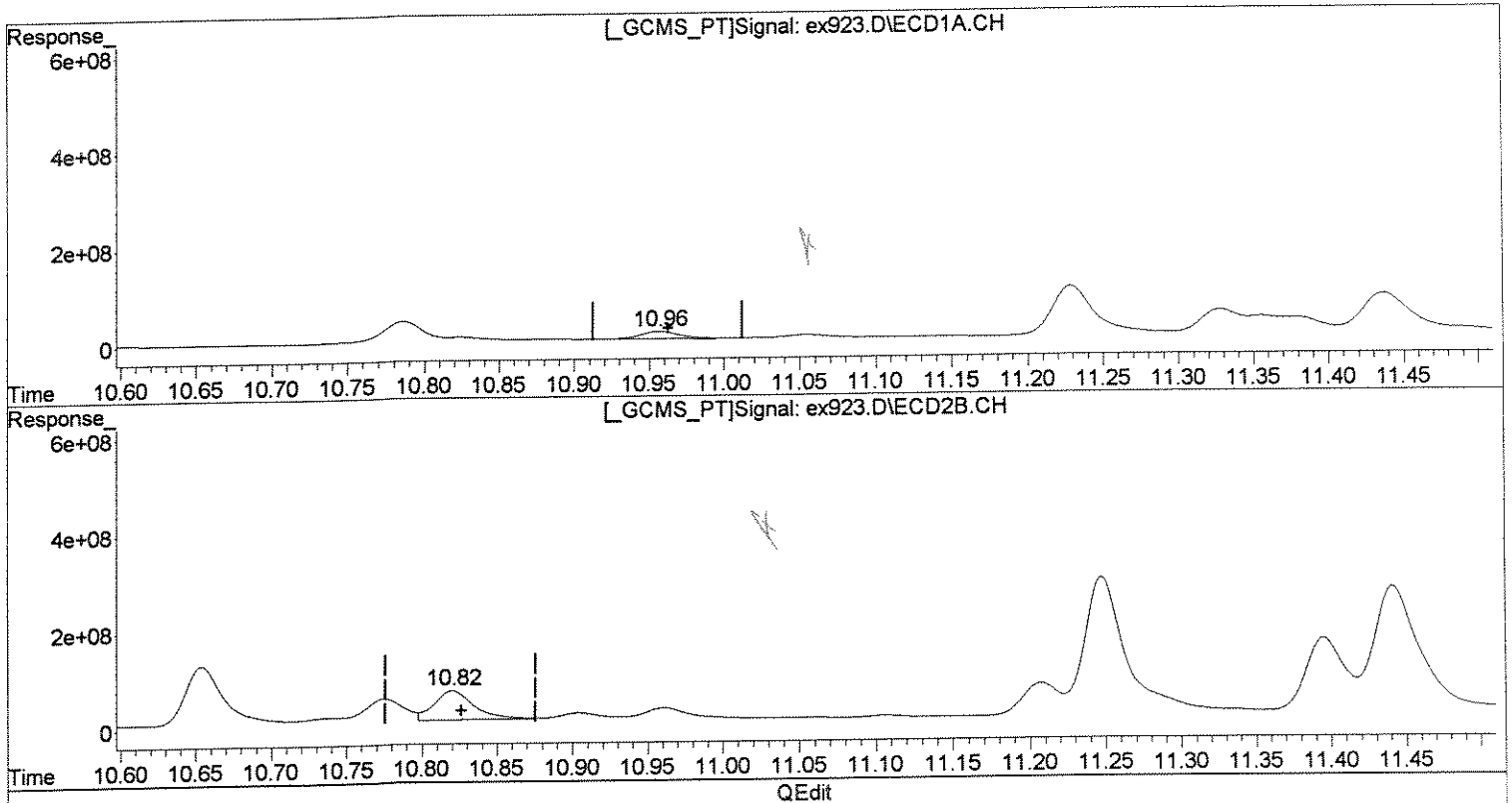
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
10.96min 24.314ug/l m
response 280715634

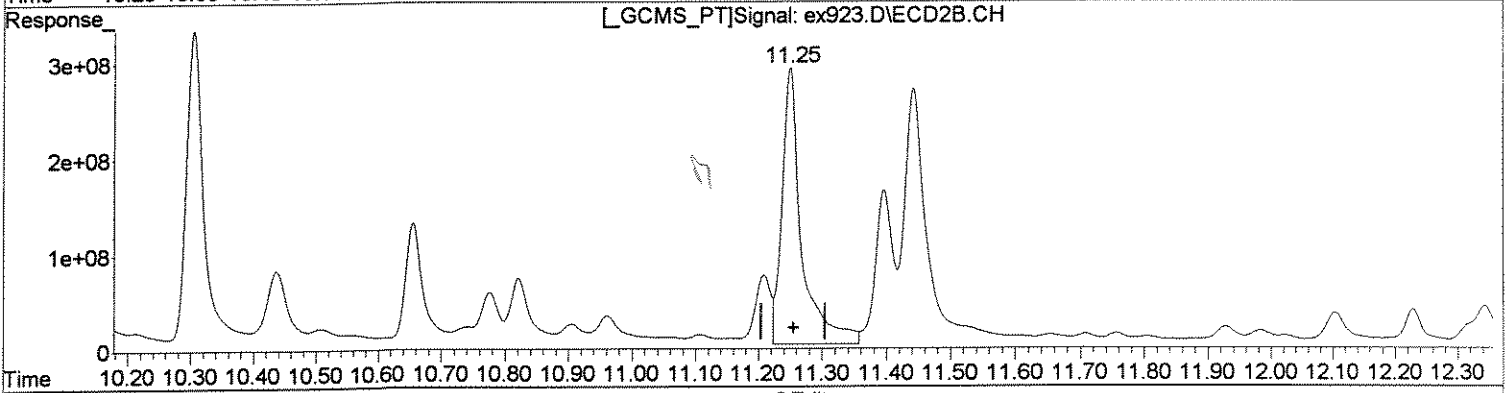
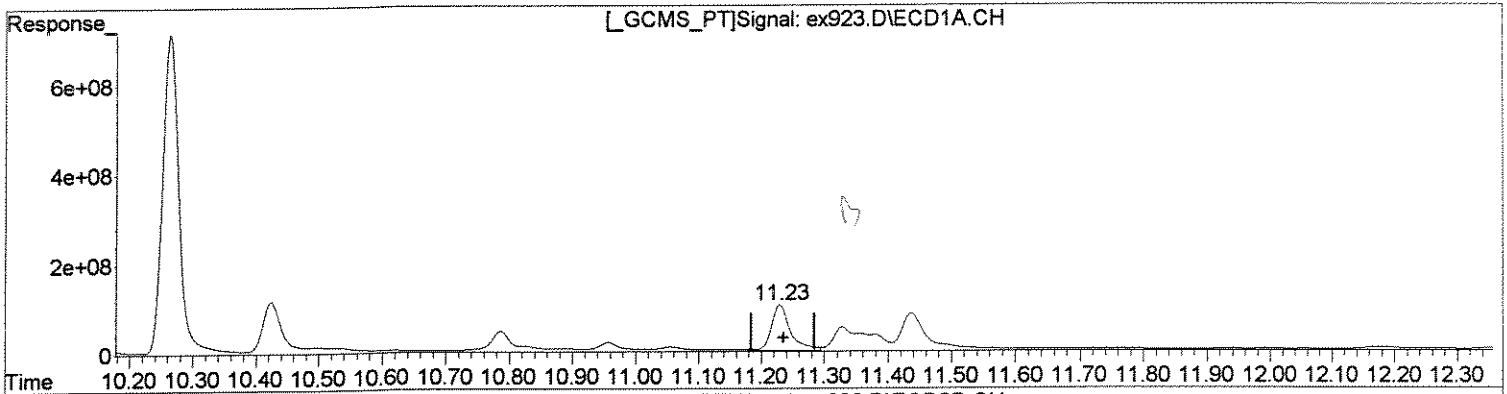
(7) beta-BHC #2 (tc)
10.82min 30.812ug/l m
response 1099142896

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.23min 76.826ug/l
response 2124739777

(8) delta-BHC #2 (tc)
11.25min 74.936ug/l
response 6226674791

Blank

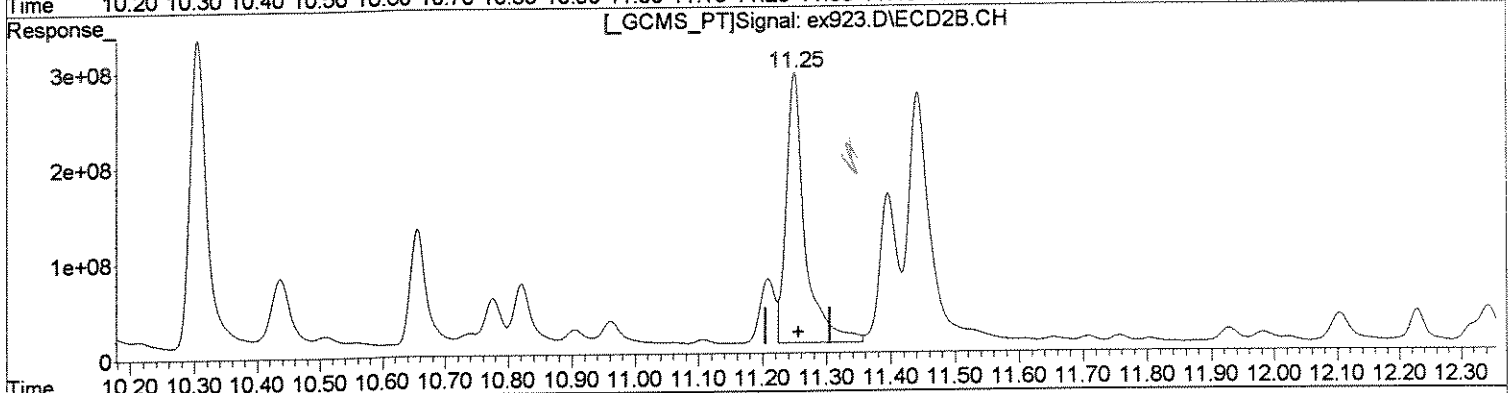
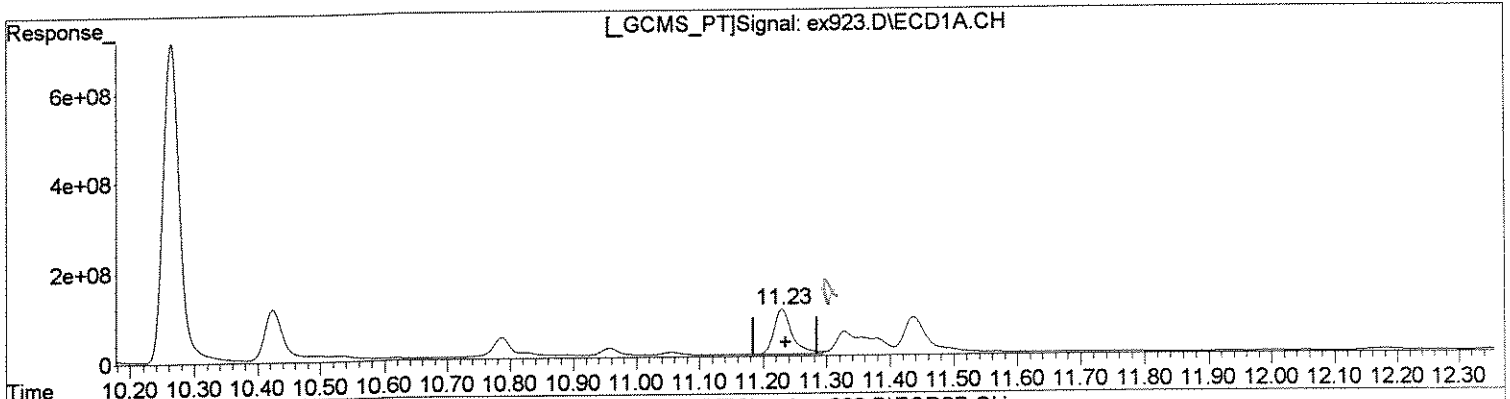
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (TC)
11.23min 72.126ug/l m
response 1994761190

(8) delta-BHC #2 (TC)
11.25min 68.635ug/l m
response 5703134364

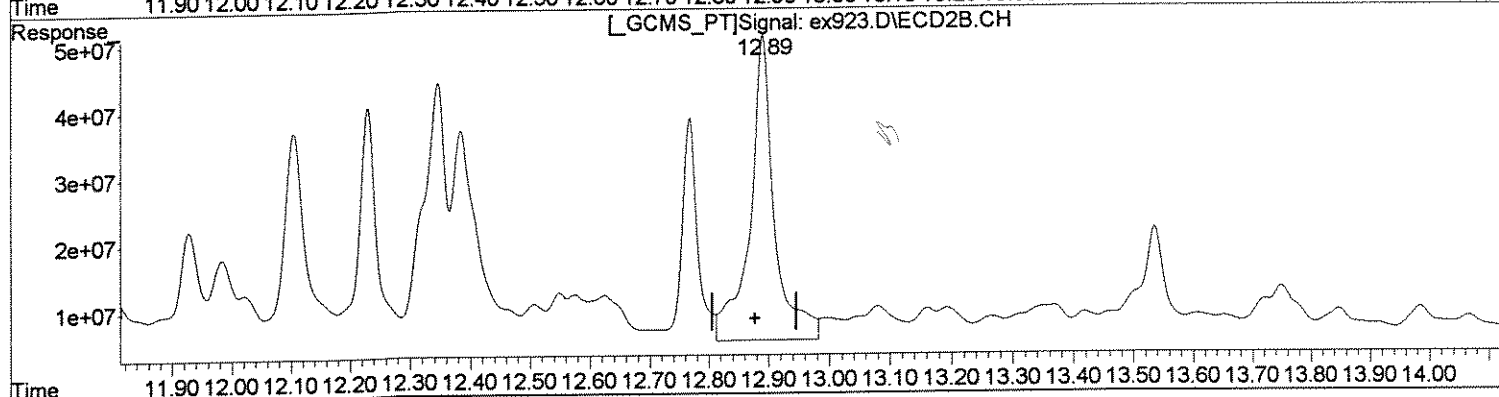
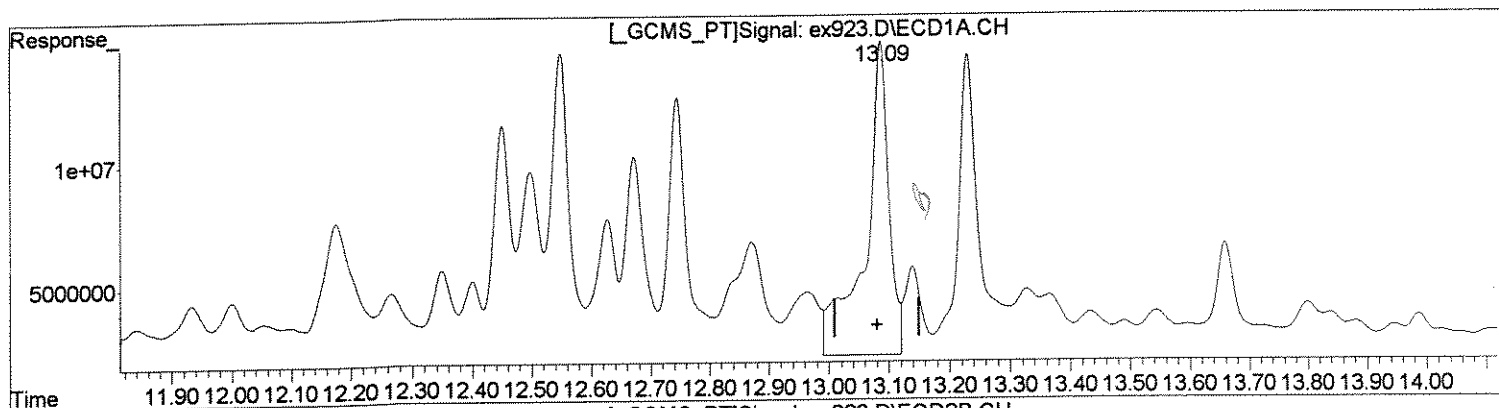
MW 7/1 *SMW 7/1*

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(11) gamma-Chlord (tc)
13.09min 15.169ug/l
response 345725340

(11) gamma-Chlord #2 (tc)
12.89min 18.509ug/l
response 1290487313

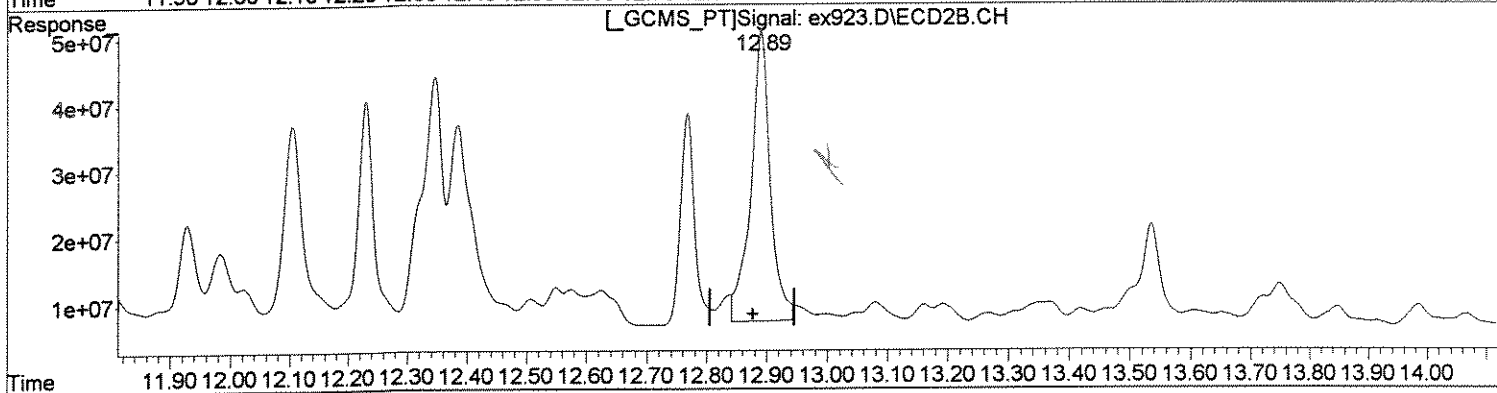
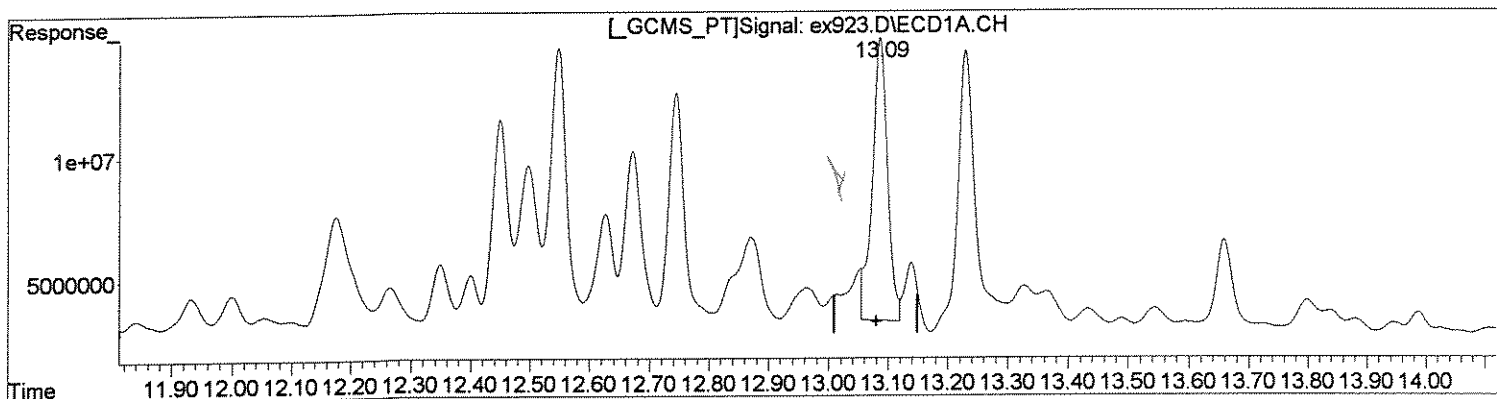
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(11) gamma-Chlord (tc)
13.09min 8.962ug/l m
response 204258795

(11) gamma-Chlord #2 (tc)
12.89min 13.951ug/l m
response 972737746

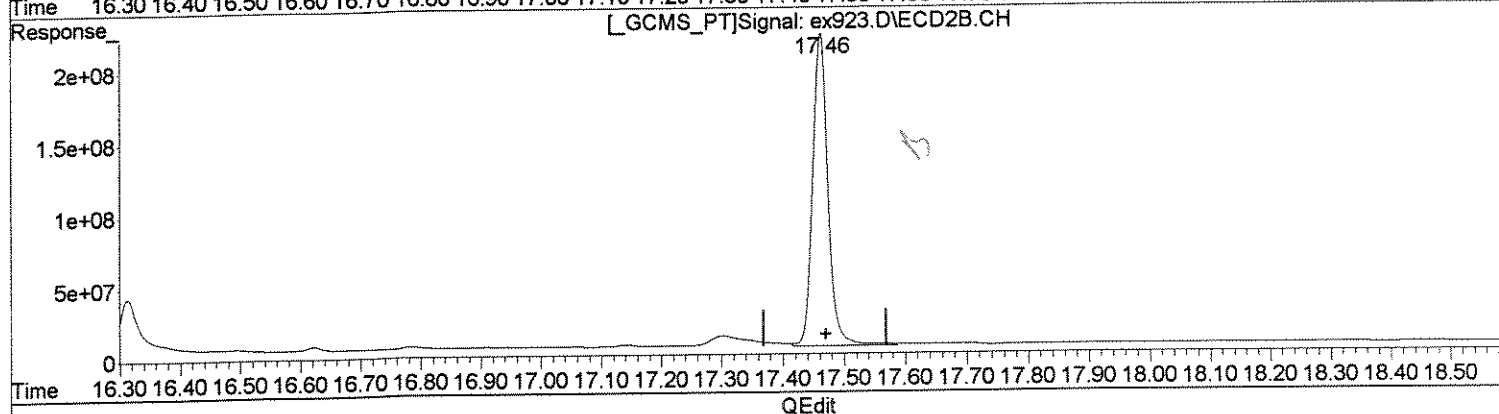
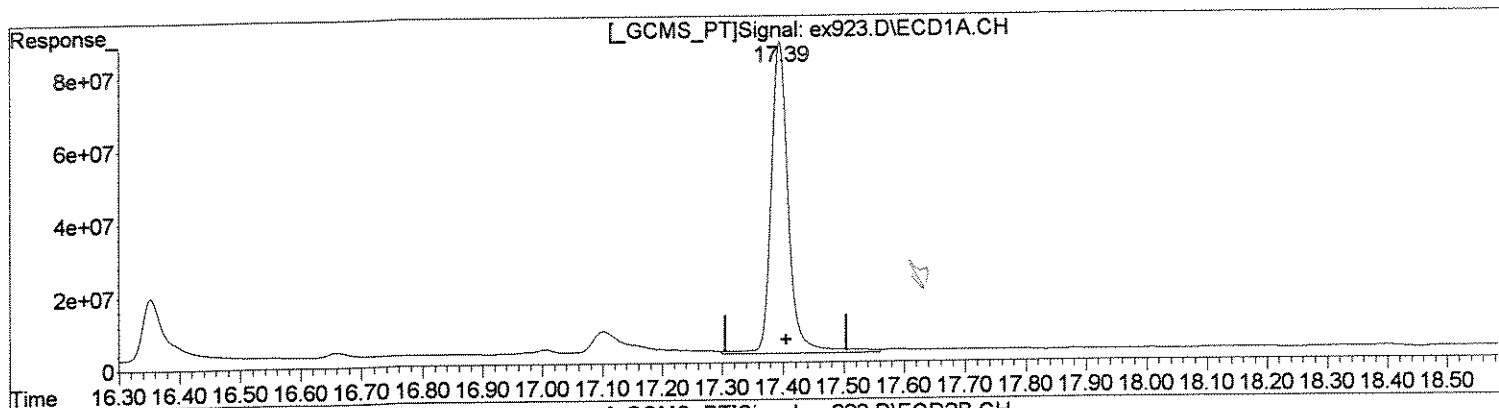
Handwritten notes:
VAP 7/1
MW 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.39min 99.353ug/l
response 1696980105

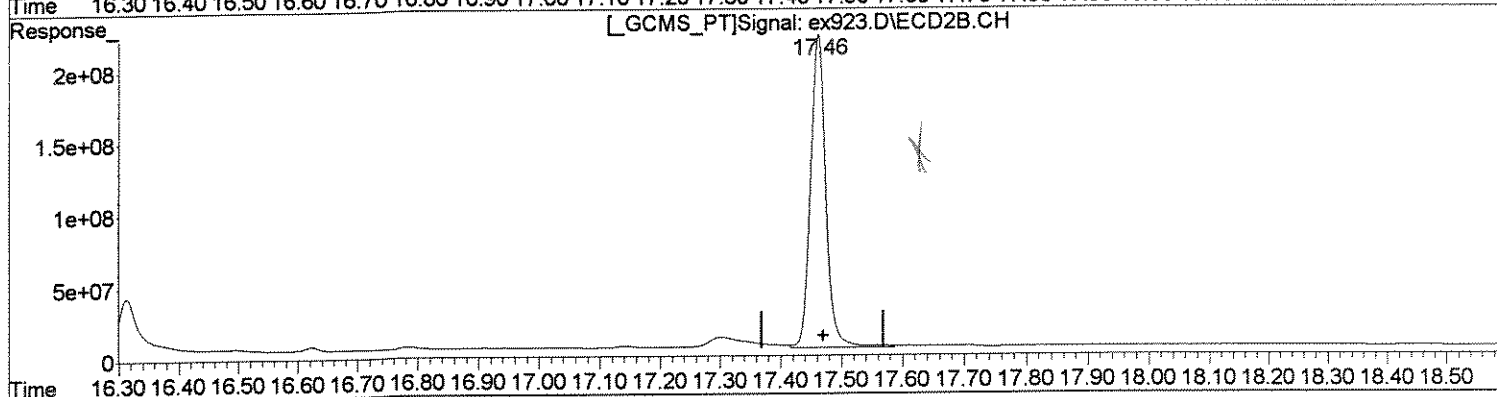
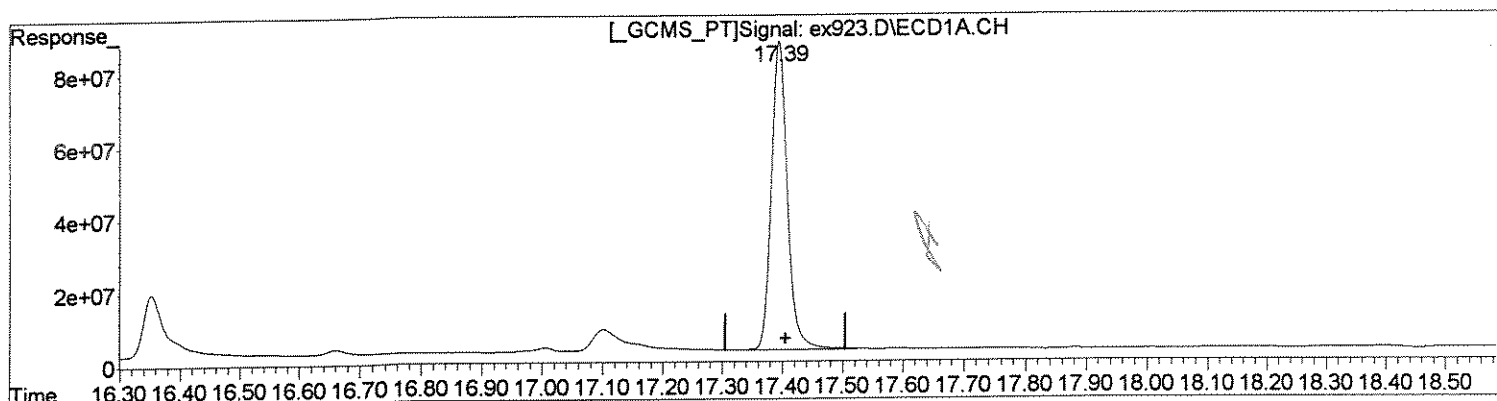
(25) SURR2,Decachlorobiphenyl #2 (S)
17.46min 86.788ug/l
response 3788375371

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.39min 92.396ug/l m
response 1578142656

(25) SURR2,Decachlorobiphenyl #2 (S)
17.46min 86.788ug/l
response 3788375371

(+) = Expected Retention Time

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX923.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 7:00 pm
 Operator : M.PEDRO
 Sample : 1112809 1.
 Misc : 06/27/08 198 ensr r44650 8081
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S	SURR1, Tetrac	9.27	9.03	1700.3E6	5059.4E6	90.280	82.919
	Spiked Amount	100.000	Range 30 - 150	Recovery =		90.28%	82.92%
25) S	SURR2, Decachloro	17.39	17.46	1697.0E6	3788.4E6	99.353	86.788
	Spiked Amount	100.000	Range 30 - 150	Recovery =		99.35%	86.79%

Target Compounds

2) TC	HEXACHLOROBENZEN	9.97	0.00	71679906	0	2.639	N.D. #
3) tc	alpha-BHC	10.26	10.09	13022.5E6	33921.6E6	433.639	366.852
4) tcm	gamma-BHC (L)	10.79	10.65	1229.3E6	2611.5E6	44.718	31.786 #
6) tcm	Aldrin	12.00	11.76	73789248	242.6E6	2.998	3.237
7) tc	beta-BHC	10.96	10.82	493.2E6	1580.5E6	42.715	44.305
8) tc	delta-BHC	11.23	11.25	2124.7E6	6226.7E6	76.826	74.936
9) tc	Heptachlor E	0.00	12.62	0	270.5E6	N.D.	4.025 #
10) tc	alpha-Endosu	13.49	13.16	28975770	100.8E6	1.406	1.692
11) tc	gamma-Chlord	13.09	12.89	345.7E6	1290.5E6	15.169	18.509
12) tc	alpha-Chlord	0.00	13.08	0	163.5E6	N.D.	2.462 #
13) tc	4,4'-DDE	13.36	13.35	63327466	164.4E6	2.817	2.522
14) tcm	Dieldrin	13.84	13.54	32344879	510.8E6	1.389	7.828 #
15) tcm	Endrin	14.15	13.98	38610927	131.9E6	1.851	2.326 #
16) tc	KEPONE	14.25	14.18	71989214	37045625	11.503	2.165 #
17) tc	beta-Endosul	0.00	14.28	0	65366845	N.D.	1.192 #
18) tc	4,4'-DDD	14.25	0.00	71989214	0	3.827	N.D. #
19) tcm	4,4'-DDT	0.00	14.58	0	60007301	N.D.	1.095 #
20) tc	Endrin Aldeh	0.00	14.76	0	89815079	N.D.	2.232 #
21) tc	Endosulfan S	0.00	15.16	0	49128919	N.D.	0.990 #
22) tc	Methoxychlor	15.33	0.00	38934023	0	3.945	N.D. #
23) tc	FAMPHUR	0.00	15.30	0	135.4E6	N.D.	4.259 #
24) tc	Endrin Keton	16.15	15.93	22073391	102.9E6	1.057	1.901 #
26) L8C	Toxaphene	14.61	0.00	81589567	0	195.374	N.D. #
28) L8C	Toxaphene {3}	0.00	14.80	0	50437808	N.D.	30.530 #
29) L8C	Toxaphene {4}	16.15	16.08	22073391	28953137	24.833	17.800 #
30) L8C	Toxaphene {5}	16.35	16.31	595.0E6	1083.8E6	881.260	622.280 #

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX923.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 7:00 pm
 Operator : M.PEDRO
 Sample : 1112809 1.
 Misc : 06/27/08 198 ensr r44650 8081
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

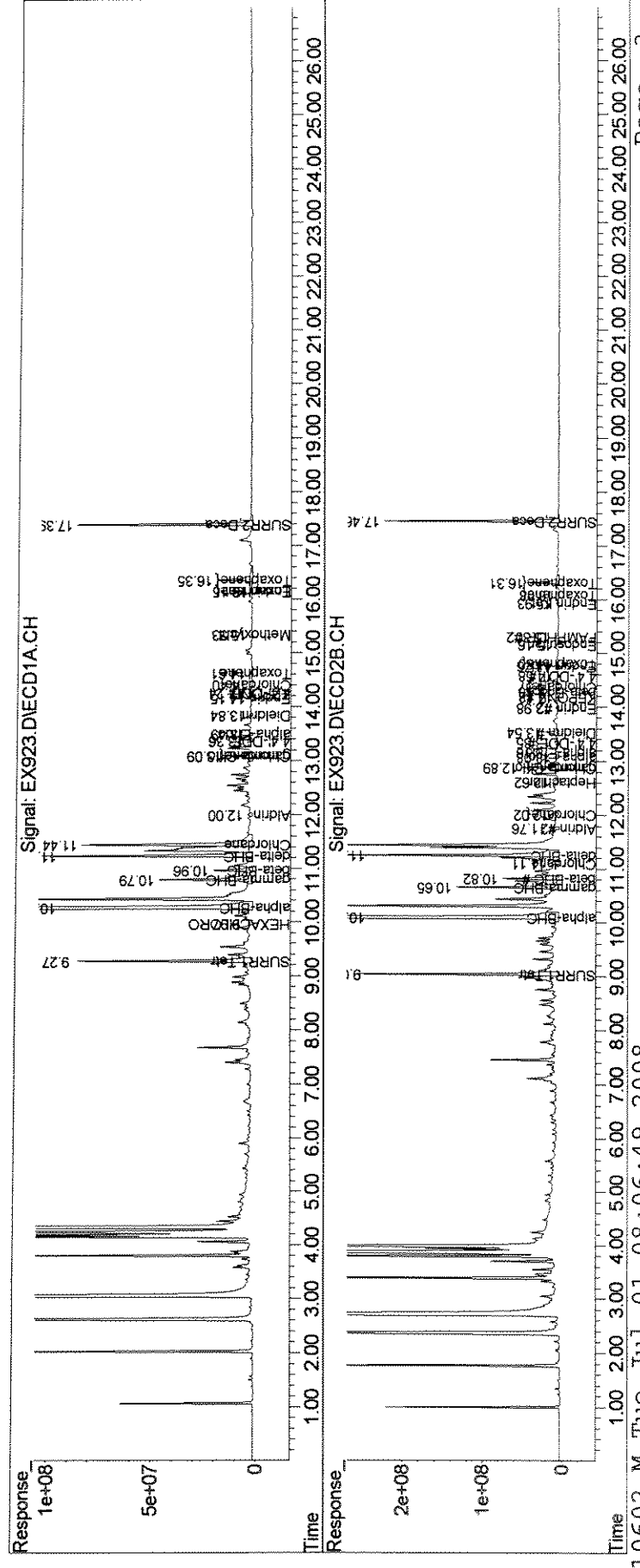
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum Toxaphene			698.7E6	1163.2E6	1101.467	670.610
Average Toxaphene					367.156	223.537
31) L9C Chlordane	11.44	11.11	2430.1E6	258.6E6	3175.639	102.695 #
33) L9C Chlordane {3}	0.00	12.02	0	164.9E6	N.D.	59.385 #
34) L9C Chlordane {4}	13.09	12.89	345.7E6	1290.5E6	126.322	163.080 #
35) L9C Chlordane {5}	14.40	14.37	41428757	80194008	43.155	26.337 #
Sum Chlordane			2817.3E6	1794.2E6	3345.115	351.496
Average Chlordane					1115.038	87.874

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:00 pm
Operator : M.PEDRO
Sample : 1112809 1.
Misc : 06/27/08 198 ensr r44650 8081
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : MC-94B

Date Sampled : 06/25/08 14:31 Order #: 1112809 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 07/11/08			
ANALYTICAL DILUTION: 10.00			
ALDRIN	0.051	0.51 U	UG/L
ALPHA-BHC	0.051	2.9 D	UG/L
BETA-BHC	0.051	0.51 U	UG/L
GAMMA-BHC	0.051	0.51 U	UG/L
DELTA-BHC	0.051	0.51 U	UG/L
ALPHA-CHLORDANE	0.051	0.51 U	UG/L
GAMMA-CHLORDANE	0.051	0.51 U	UG/L
CHLORDANE	0.25	2.5 U	UG/L
4,4'-DDE	0.051	0.51 U	UG/L
4,4'-DDT	0.051	0.51 U	UG/L
DIELDRIN	0.10	1.0 U	UG/L
ALPHA-ENDOSULFAN	0.051	0.51 U	UG/L
BETA-ENDOSULFAN	0.10	1.0 U	UG/L
ENDOSULFAN SULFATE	0.10	1.0 U	UG/L
ENDRIN	0.051	0.51 U	UG/L
ENDRIN ALDEHYDE	0.10	1.0 U	UG/L
ENDRIN KETONE	0.10	1.0 U	UG/L
HEPTACHLOR	0.051	0.51 U	UG/L
HEPTACHLOR EPOXIDE	0.051	0.51 U	UG/L
HEXACHLOROBENZENE	0.051	0.51 U	UG/L
METHOXYCHLOR	0.51	5.1 U	UG/L
4,4'-TDE (DDD)	0.051	0.51 U	UG/L
TOXAPHENE	1.0	10 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	122	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	113	%

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : ey072.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 1:42 pm
 Operator : M.PEDRO
 Sample : 1112809 10. RV
 Misc : 06/27/08 198 ensr r44650 8081
 ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:17:41 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

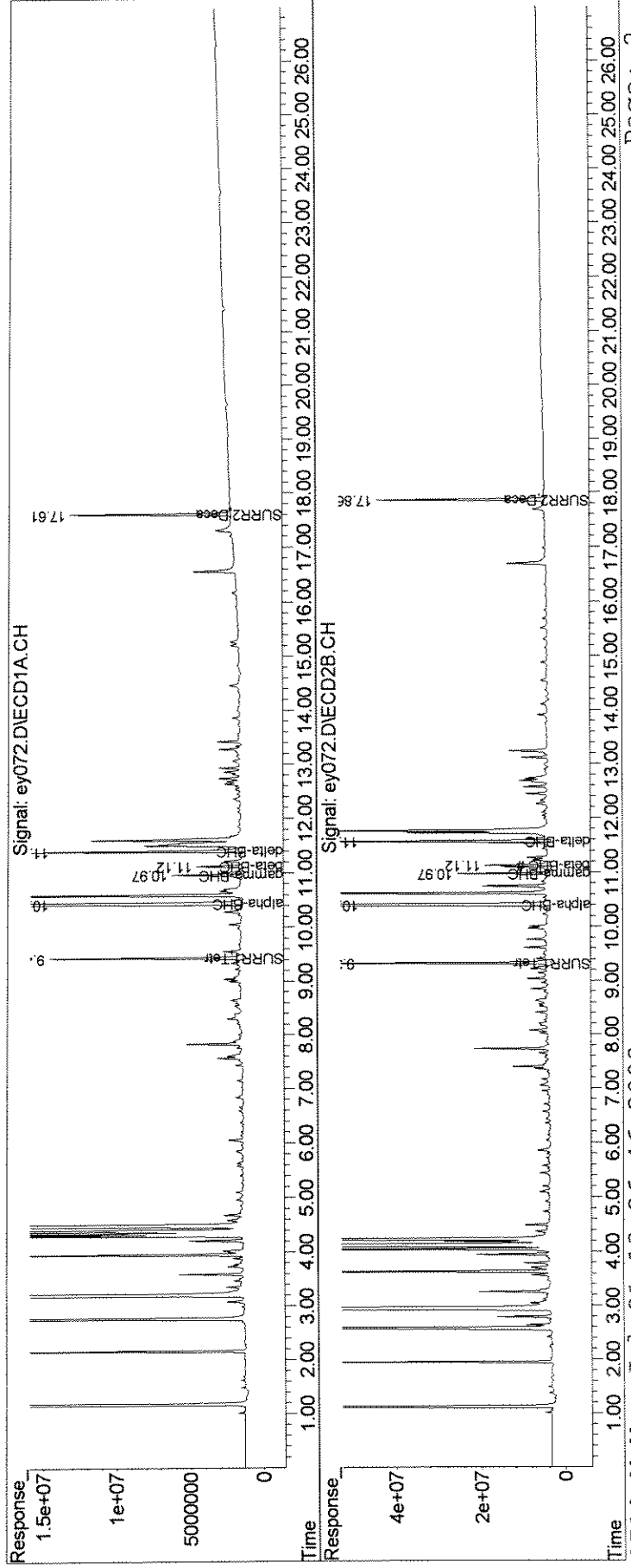
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	205.2E6	915.9E6	10.169	11.318
Spiked Amount	100.000	Range	30 - 150	Recovery =	10.17%#	11.32%#
25) S SURR2,Decachloro	17.61	17.86	198.7E6	672.0E6	11.379	12.201
Spiked Amount	100.000	Range	30 - 150	Recovery =	11.38%#	12.20%#
Target Compounds						
3) tc alpha-BHC	10.44	10.40	1765.2E6	6458.0E6	57.096	54.417
4) tcm gamma-BHC (L	10.97	10.97	94399471	313.5E6	3.347	2.984
7) tc beta-BHC	11.12	11.12	52075353	274.7E6	4.535	6.088 #
8) tc delta-BHC	11.40	11.56	246.5E6	914.4E6	9.064	8.857m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\071008\
 Data File : ey072.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 1:42 pm
 Operator : M.PEDRO
 Sample : 1112809 10.
 Misc : 06/27/08 198 ensr r44650 8081
 ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:17:41 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

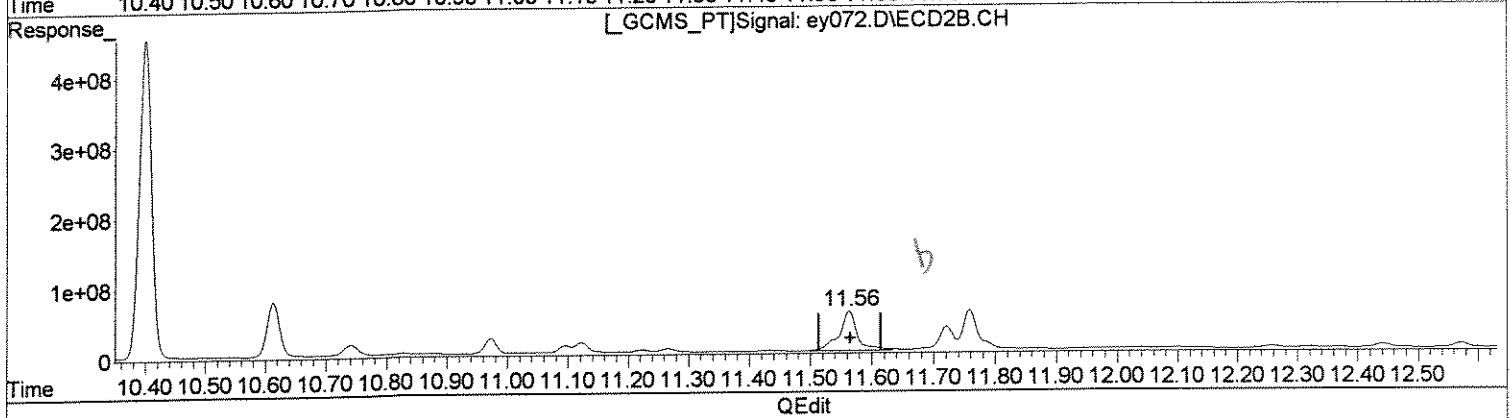
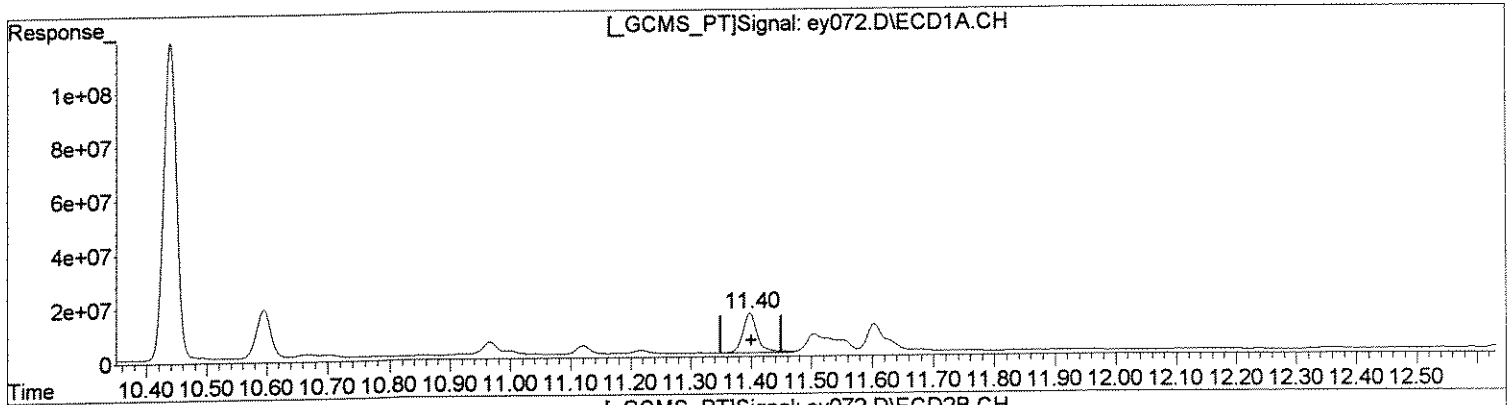


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey072.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 1:42 pm
Operator : M.PEDRO
Sample : 1111489 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 06:44:04 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.40min 9.064ug/l
response 246531401

(8) delta-BHC #2 (tc)
11.56min 11.326ug/l
response 1169282187

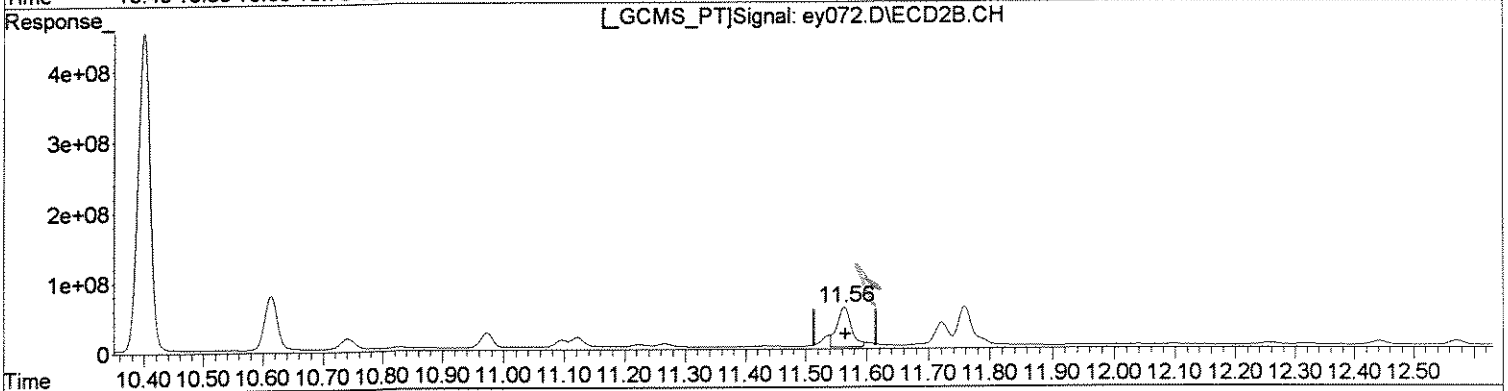
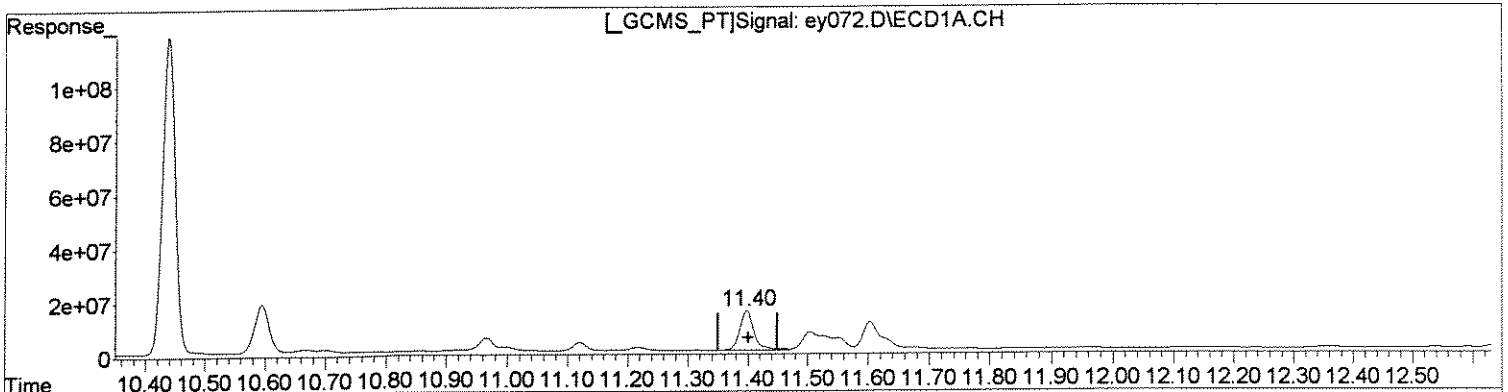
Bone

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey072.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 1:42 pm
Operator : M.PEDRO
Sample : 1111489 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 06:44:04 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(8) delta-BHC (tc)
11.40min 9.064ug/l
response 246531401

MW 7/14

(8) delta-BHC #2 (tc)
11.56min 8.857ug/l m
response 914408955

MW 7/14

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY072.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 1:42 pm
 Operator : M.PEDRO
 Sample : ~~1111489~~ 10. *1112809*
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 06:44:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	205.2E6	915.9E6	10.169	11.318
Spiked Amount	100.000	Range 30 - 150	Recovery =		10.17%#	11.32%#
25) S SURR2,Decachloro	17.61	17.86	198.7E6	672.0E6	11.379	12.201
Spiked Amount	100.000	Range 30 - 150	Recovery =		11.38%#	12.20%#
Target Compounds						
2) TC HEXACHLOROENZEN	0.00	10.13	0	36937736	N.D.	0.304 #
3) tc alpha-BHC	10.44	10.40	1765.2E6	6458.0E6	57.096	54.417
4) tcm gamma-BHC (L	10.97	10.97	94399471	313.5E6	3.347	2.984
5) tcm Heptachlor	0.00	11.64	0	24098478	N.D.	0.240 #
6) tcm Aldrin	12.19	12.10	7700549	42934434	0.311	0.471 #
7) tc beta-BHC	11.12	11.12	52075353	274.7E6	4.535	6.088 #
8) tc delta-BHC	11.40	11.56	246.5E6	1169.3E6	9.064	11.326
10) tc alpha-Endosu	0.00	13.52	0	22359348	N.D.	0.315 #
11) tc gamma-Chlord	13.28	13.23	36333878	219.6E6	1.657	2.677 #
12) tc alpha-Chlord	13.47	13.44	4158339	24178064	0.194	0.311 #
13) tc 4,4'-DDE	13.57	0.00	6754326	0	0.310	N.D. #
14) tcm Dieldrin	0.00	13.91	0	85004400	N.D.	1.086 #
15) tcm Endrin	14.36	14.37	5836556	29777277	0.282	0.442 #
16) tc KEPONE	14.46	14.54	31729287	56318352	4.337	2.449 #
17) tc beta-Endosul	0.00	14.66	0	15536900	N.D.	0.242 #
18) tc 4,4'-DDD	14.46	0.00	31729287	0	1.763	N.D. #
19) tcm 4,4'-DDT	0.00	14.97	0	9565162	N.D.	0.146 #
20) tc Endrin Aldeh	0.00	15.15	0	17968150	N.D.	0.366 #
22) tc Methoxychlor	0.00	15.93	0	2809335	N.D.	0.097 #
23) tc FAMPHUR	0.00	15.68	0	12280924	N.D.	0.294 #
24) tc Endrin Keton	16.36	16.30	1319221	19619911	0.068	0.313 #
27) L8C Toxaphene {2}	0.00	15.05	0	10193269	N.D.	11.299 #
28) L8C Toxaphene {3}	0.00	15.15	0	17968150	N.D.	9.612 #
29) L8C Toxaphene {4}	16.36	16.45	1319221	4358861	1.612	2.263 #
30) L8C Toxaphene {5}	16.56	16.69	74322019	226.9E6	111.659	100.575
Sum Toxaphene			75641241	259.5E6	113.271	123.748

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY072.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 1:42 pm
 Operator : M.PEDRO
 Sample : 1111489 10.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 06:44:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average Toxaphene					56.635	30.937
31) L9C Chlordane	11.60	11.43	225.4E6	54335407	282.655	16.804 #
32) L9C Chlordane {2}	0.00	11.64	0	24098478	N.D.	5.356 #
33) L9C Chlordane {3}	0.00	12.36	0	29270721	N.D.	8.177 #
34) L9C Chlordane {4}	13.28	13.23	36333878	219.6E6	13.133	21.914 #
35) L9C Chlordane {5}	0.00	14.76	0	14736767	N.D.	4.178 #
Sum Chlordane			261.7E6	342.0E6	295.788	56.428
Average Chlordane					147.894	11.286

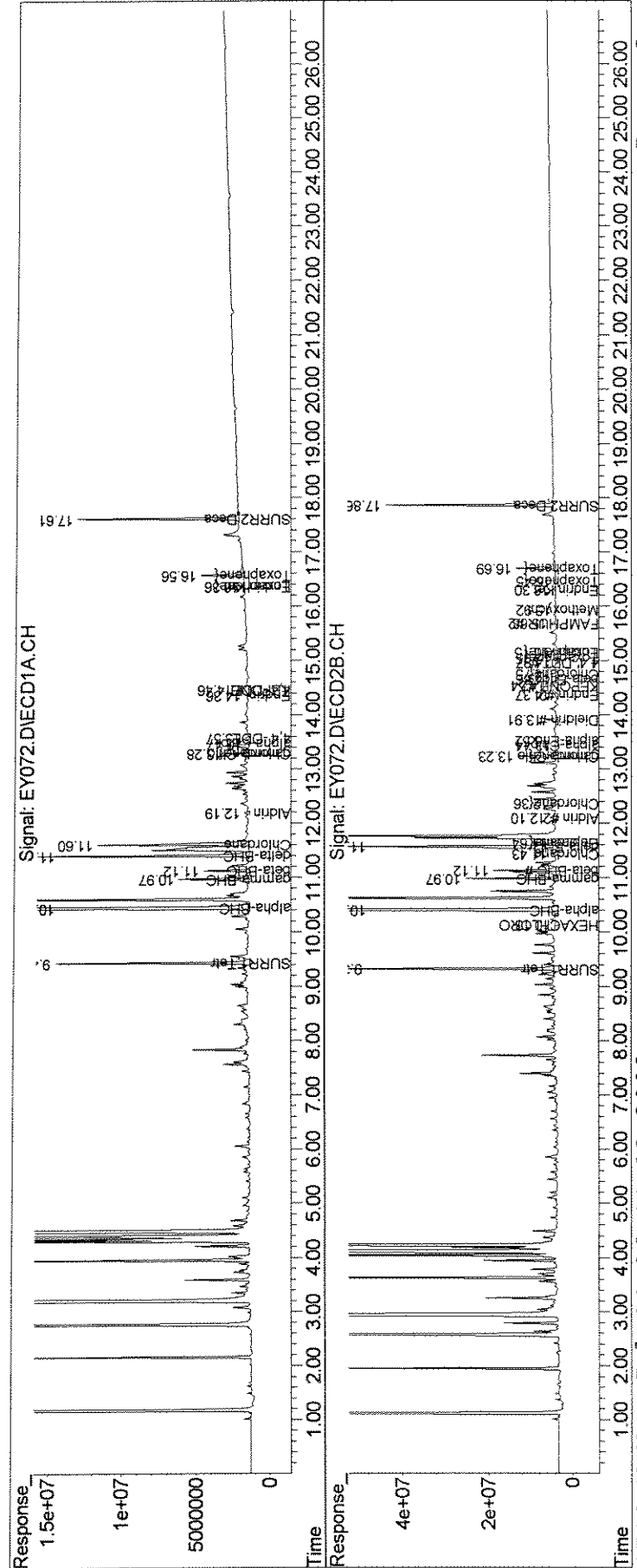
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY072.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 1:42 pm
Operator : M.PEDRO
Sample : 1111489 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 06:44:04 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
Client Sample ID : MW-16B

Date Sampled : 06/26/08 14:05 Order #: 1112810 Sample Matrix: WATER
Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.047 U	UG/L
BETA-BHC	0.047	0.047 U	UG/L
GAMMA-BHC	0.047	0.047 U	UG/L
DELTA-BHC	0.047	0.047 U	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	1.3 E	UG/L
HEXACHLOROBENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	63	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	82	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex924.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 7:36 pm
 Operator : M.PEDRO
 Sample : 1112810 1.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:10:25 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

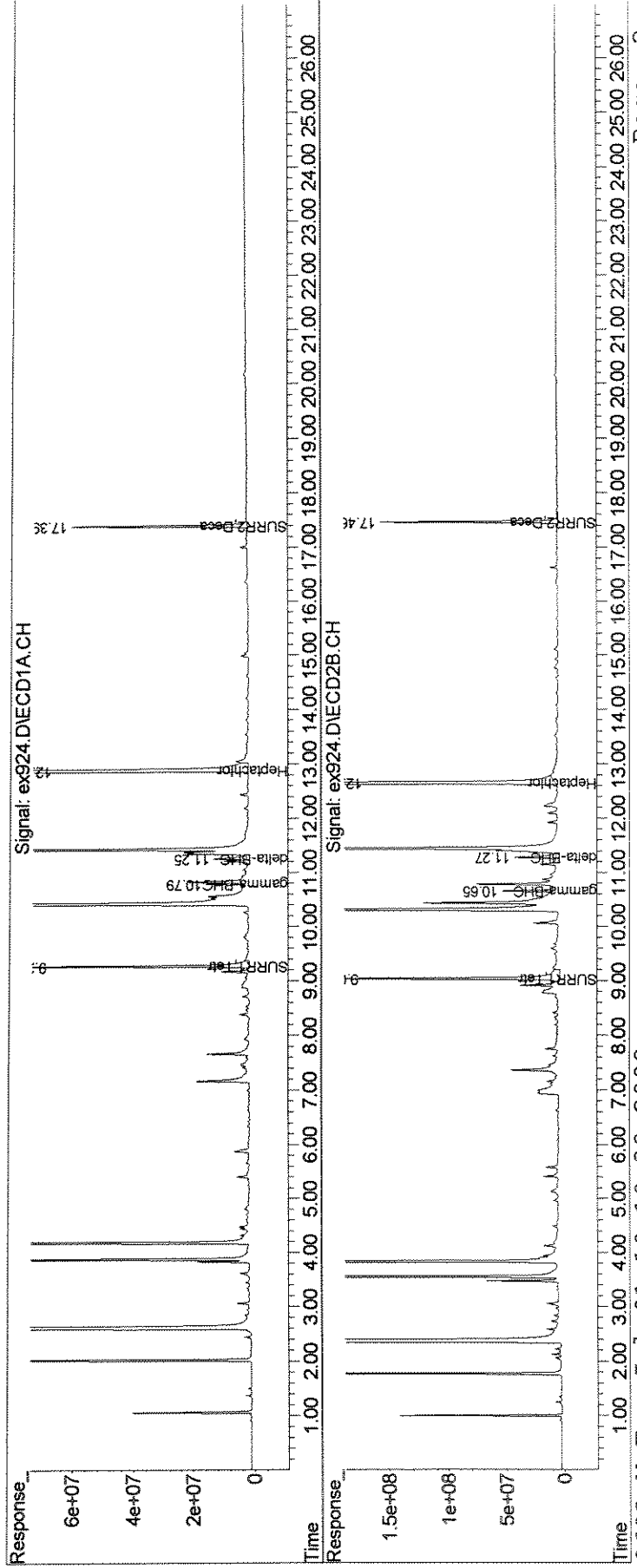
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1539.8E6	4971.2E6	81.761	81.474
Spiked Amount	100.000	Range 30 - 150	Recovery =		81.76%	81.47%
25) S SURR2,Decachloro	17.39	17.46	1076.0E6	2673.8E6	62.999	61.255
Spiked Amount	100.000	Range 30 - 150	Recovery =		63.00%	61.26%
Target Compounds						
4) tcm gamma-BHC (L)	10.79	10.65	180.9E6	666.4E6	6.581m	8.111m
8) tc delta-BHC	11.25	11.27	217.2E6	791.7E6	7.853m	9.528m
9) tc Heptachlor E	12.89	12.65f	6317.9E6	16801.9E6	274.196	250.055m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex924.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 7:36 pm
 Operator : M.PEDRO
 Sample : 1112810 1.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:10:25 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

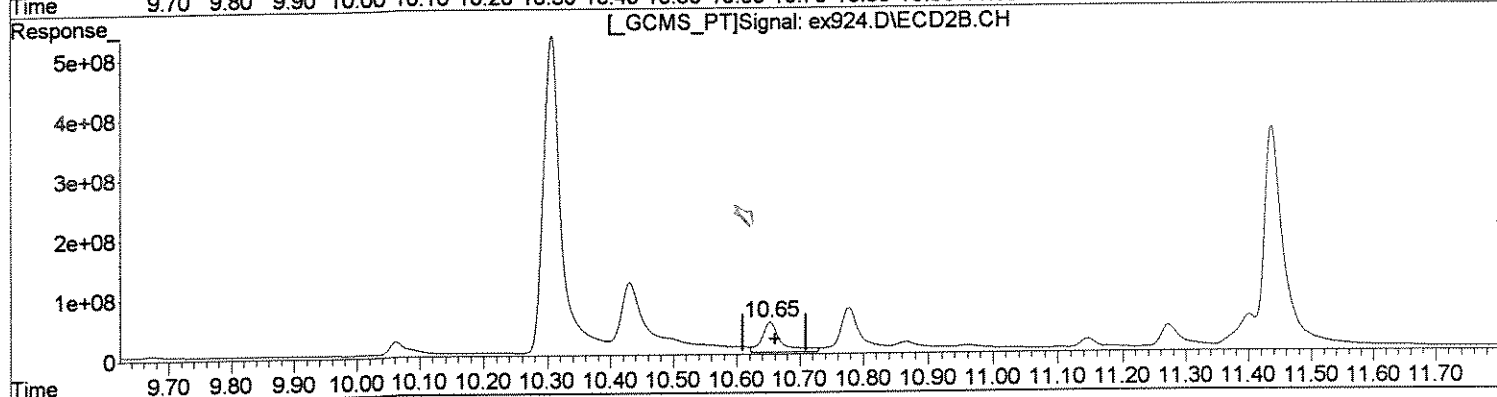
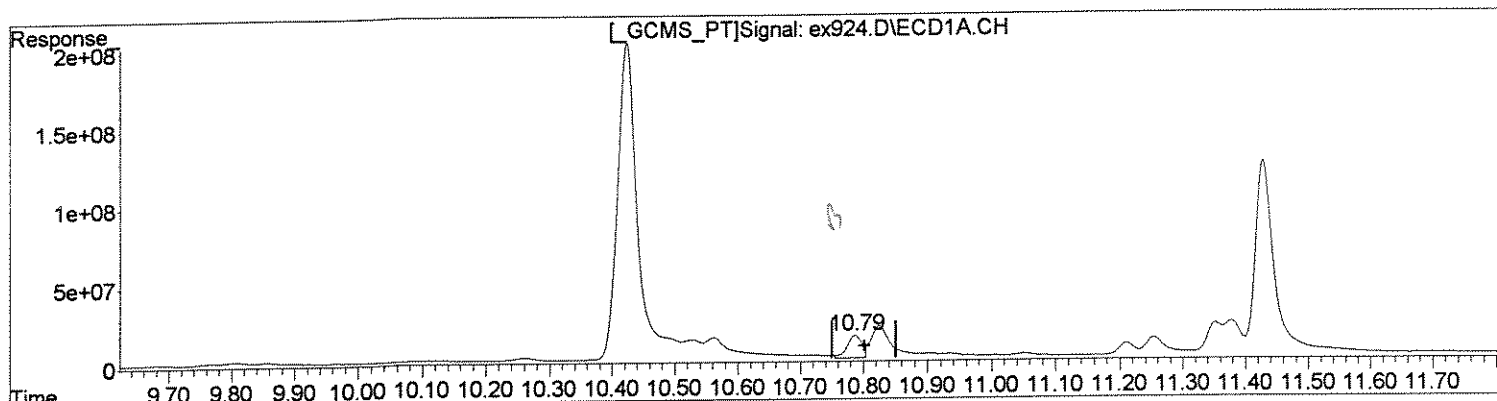


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:36 pm
Operator : M.PEDRO
Sample : 1112810 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:51 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)
10.79min 8.334ug/l
response 229097093

(4) gamma-BHC (L #2 (tcm)
10.65min 12.715ug/l
response 1044657985

Handwritten mark

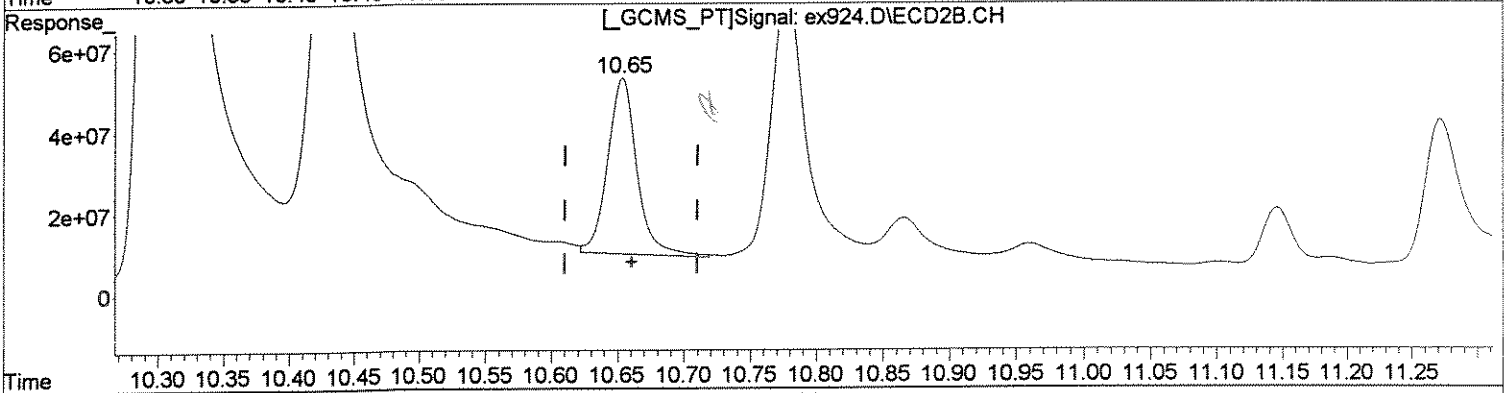
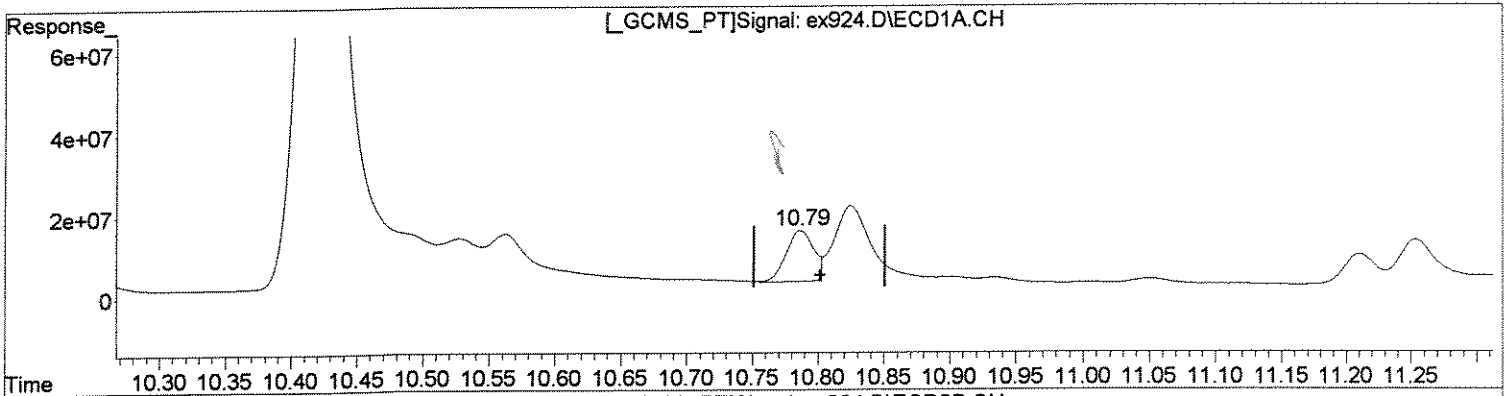
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:36 pm
Operator : M.PEDRO
Sample : 1112810 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:51 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(4) gamma-BHC (L (tcm)
10.79min 6.581ug/l m
response 180908116

(4) gamma-BHC (L #2 (tcm)
10.65min 8.111ug/l m
response 666391170

Handwritten signature

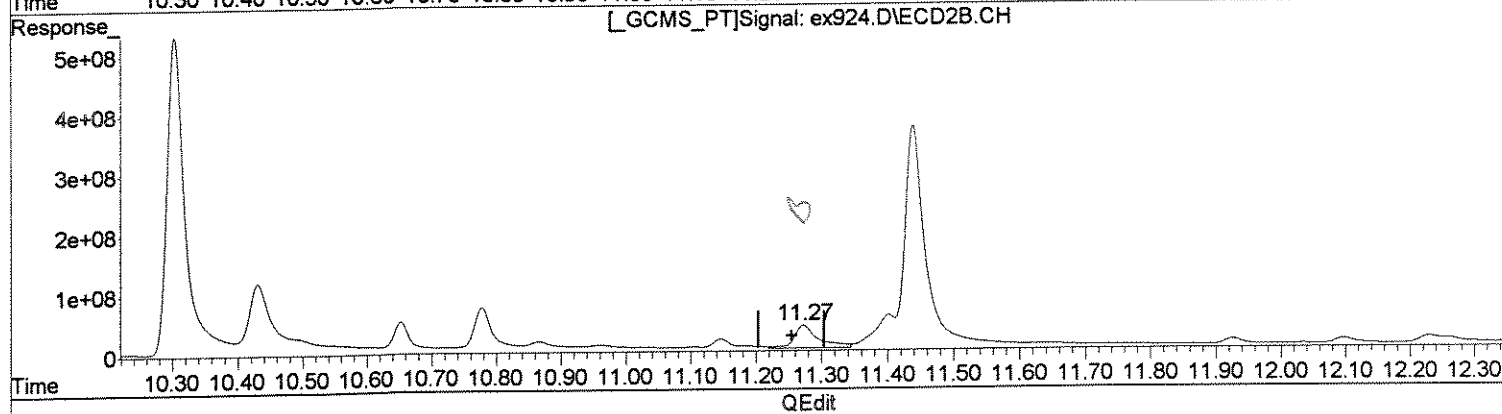
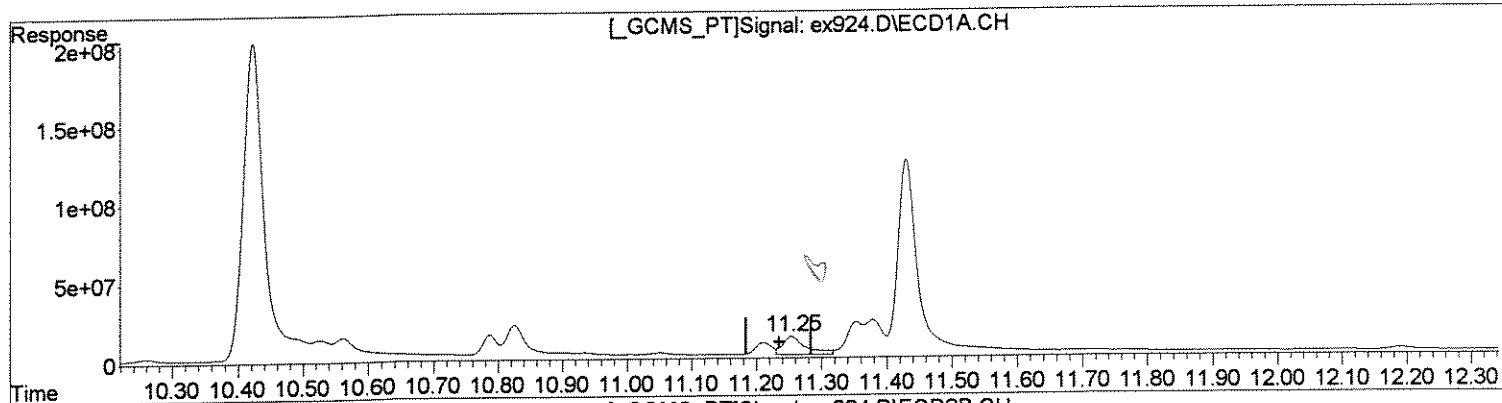
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex924.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 7:36 pm
 Operator : M.PEDRO
 Sample : 1112810 1.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
 11.25min 10.284ug/l
 response 284422733

(8) delta-BHC #2 (tc)
 11.27min 12.123ug/l
 response 1007334329

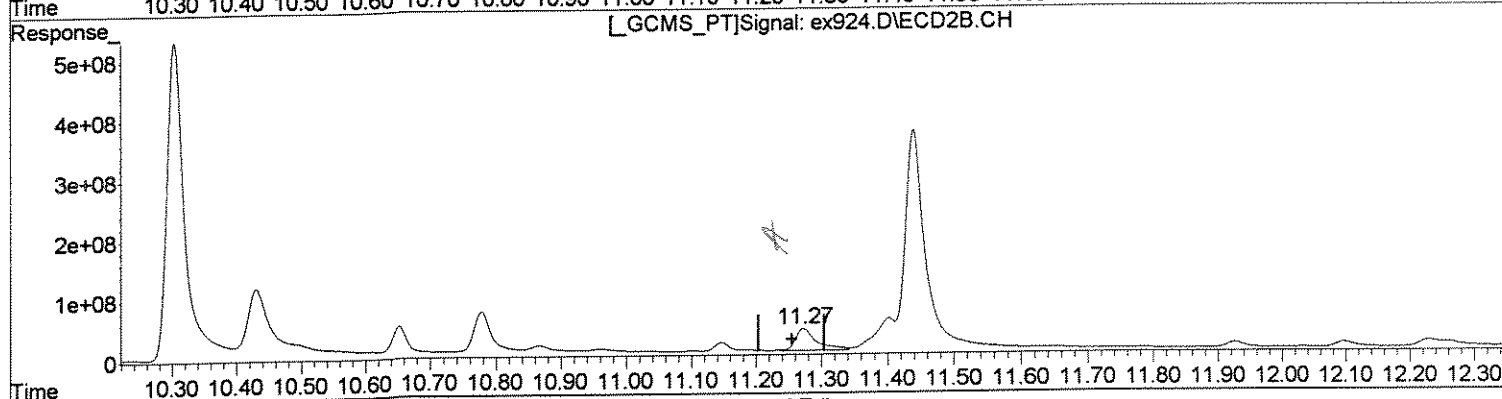
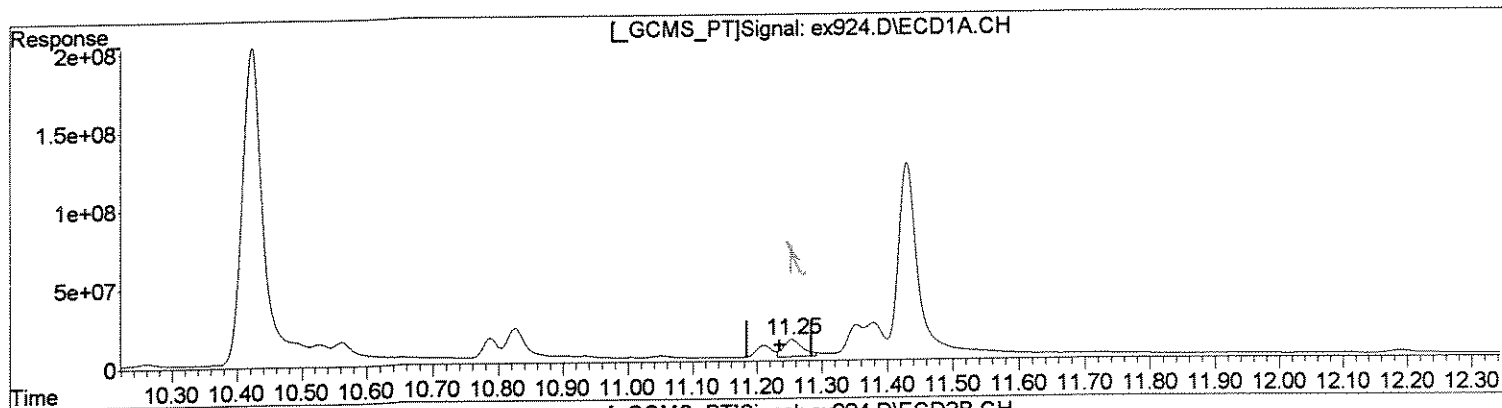
BMP

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:36 pm
Operator : M.PEDRO
Sample : 1112810 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:51 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.25min 7.853ug/l m
response 217199635

(8) delta-BHC #2 (tc)
11.27min 9.528ug/l m
response 791677083

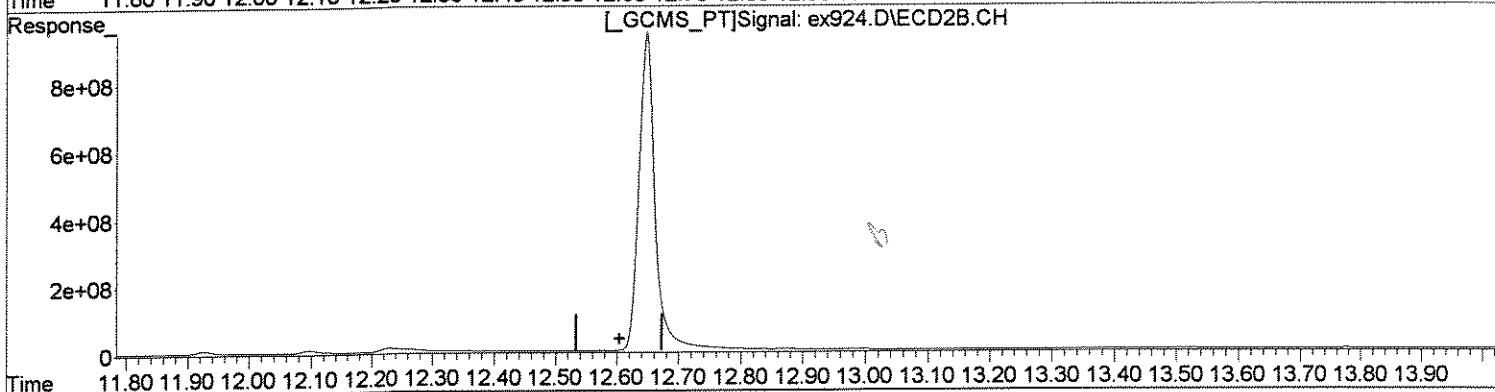
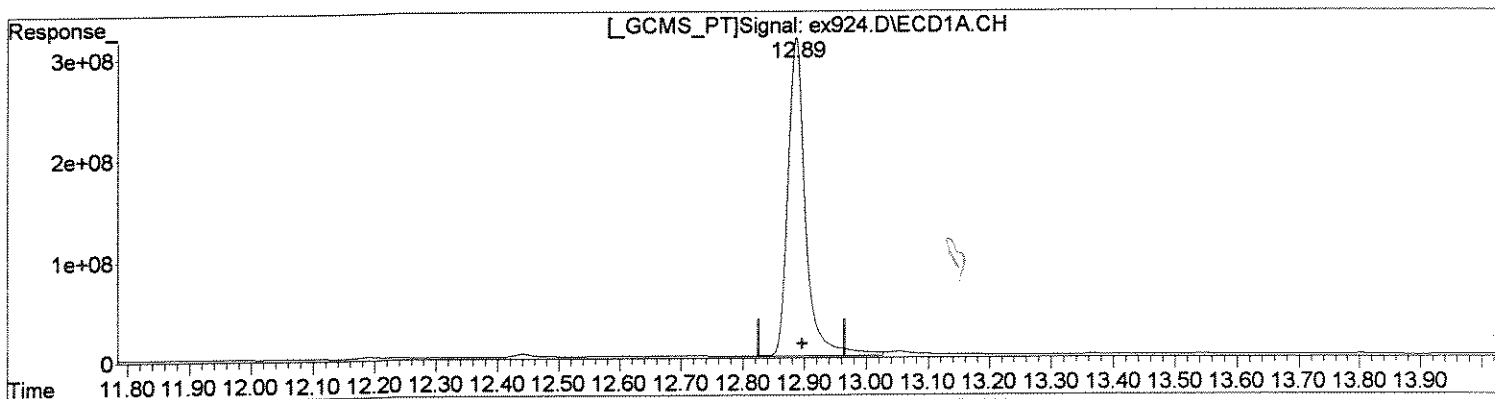
Aug 7/1
MW 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:36 pm
Operator : M.PEDRO
Sample : 1112810 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:51 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
12.89min 274.196ug/l
response 6317865854

(9) Heptachlor E #2 (tc)
0.00min 0.000ug/l
response 0

Base

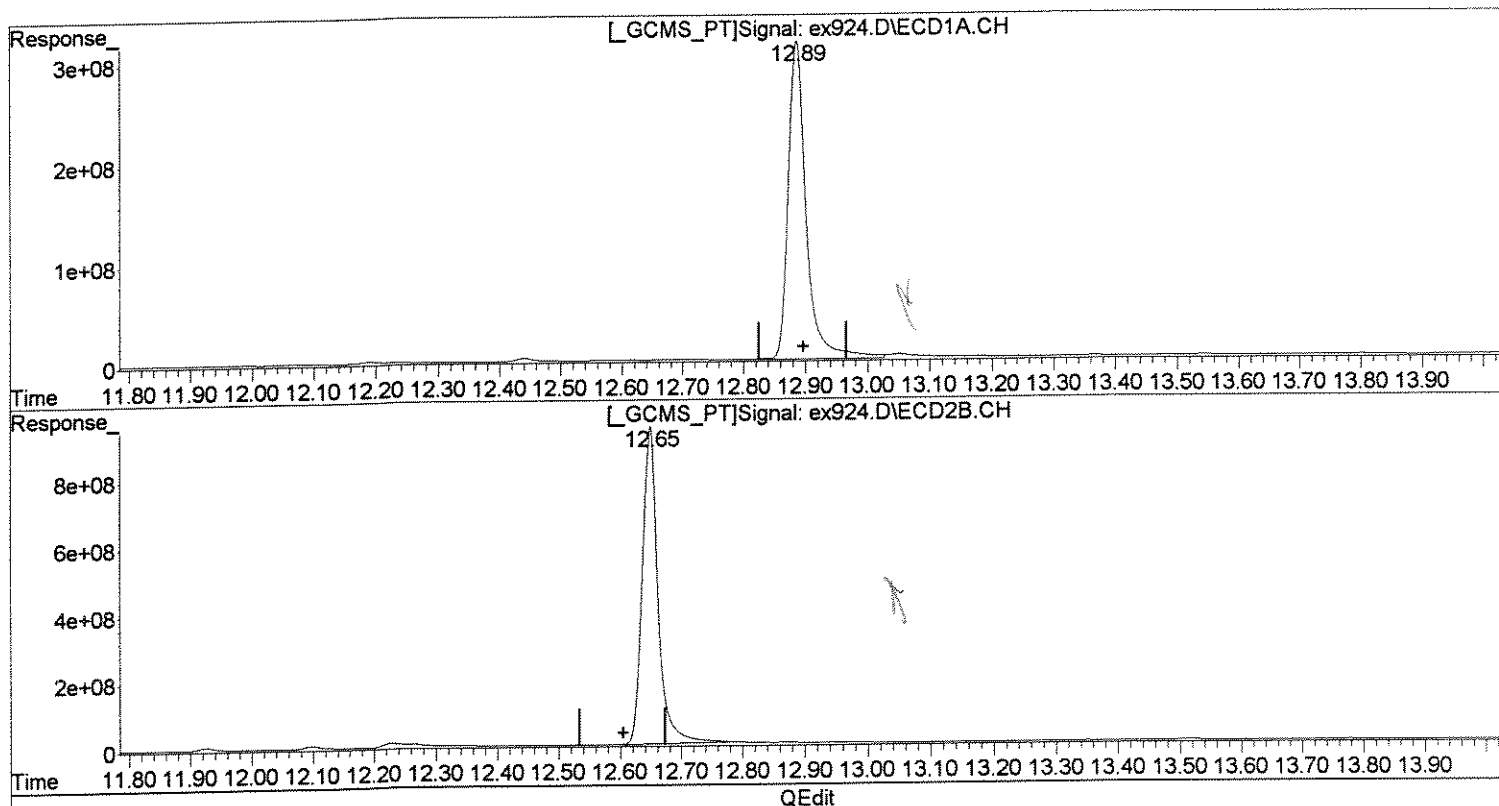
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:36 pm
Operator : M.PEDRO
Sample : 1112810 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:51 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
12.89min 274.196ug/l
response 6317865854

(9) Heptachlor E #2 (tc)
12.65min 250.055ug/l m
response 16801901423

(+) = Expected Retention Time

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX924.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 7:36 pm
 Operator : M.PEDRO
 Sample : 1112810 1.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1539.8E6	4971.2E6	81.761	81.474
Spiked Amount	100.000	Range 30 - 150	Recovery =		81.76%	81.47%
25) S SURR2,Decachloro	17.39	17.46	1076.0E6	2673.8E6	62.999	61.255
Spiked Amount	100.000	Range 30 - 150	Recovery =		63.00%	61.26%
Target Compounds						
2) TC HEXACHLOROBENZEN	0.00	9.84	0	77464074	N.D.	0.880 #
3) tc alpha-BHC	10.26	0.00	40254357	0	1.340	N.D. #
4) tcm gamma-BHC (L	10.79	10.65	229.1E6	1044.7E6	8.334	12.715 #
8) tc delta-BHC	11.25	11.27	284.4E6	1007.3E6	10.284	12.123 #
9) tc Heptachlor E	12.89	0.00	6317.9E6	0	274.196	N.D. #
10) tc alpha-Endosu	0.00	13.15	0	28414294	N.D.	0.477 #
11) tc gamma-Chlord	0.00	12.87	0	239.1E6	N.D.	3.429 #
13) tc 4,4'-DDE	13.37	13.35	28251106	108.8E6	1.257	1.670 #
15) tcm Endrin	0.00	13.97	0	45021437	N.D.	0.794 #
16) tc KEPONE	0.00	14.18	0	17947622	N.D.	1.049 #
17) tc beta-Endosul	0.00	14.28	0	39665690	N.D.	0.723 #
19) tcm 4,4'-DDT	0.00	14.57	0	76950353	N.D.	1.404 #
20) tc Endrin Aldeh	0.00	14.76	0	87349996	N.D.	2.171 #
21) tc Endosulfan S	15.78	0.00	2820076	0	0.155	N.D. #
23) tc FAMPHUR	0.00	15.32	0	44498996	N.D.	1.400 #
24) tc Endrin Keton	16.14	15.93	2036557	13965542	0.098	0.258 #
26) L8C Toxaphene	14.61	14.42	22936694	33940508	54.924	20.715 #
27) L8C Toxaphene {2}	0.00	14.70	0	19435912	N.D.	25.265 #
28) L8C Toxaphene {3}	15.30	14.80	7745800	67287893	10.831	40.729 #
29) L8C Toxaphene {4}	16.14	16.08	2036557	29290622	2.291	18.007 #
30) L8C Toxaphene {5}	16.36	16.32	30983368	50029131	45.890	28.724 #
Sum Toxaphene			63702420	200.0E6	113.937	133.440
Average Toxaphene					28.484	26.688
31) L9C Chlordane	11.43	11.10	2751.5E6	70552630	3595.698	28.013 #
33) L9C Chlordane {3}	0.00	12.03	0	69763157	N.D.	25.128 #

Handwritten note: 0.880

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX924.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 7:36 pm
 Operator : M.PEDRO
 Sample : 1112810 1.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

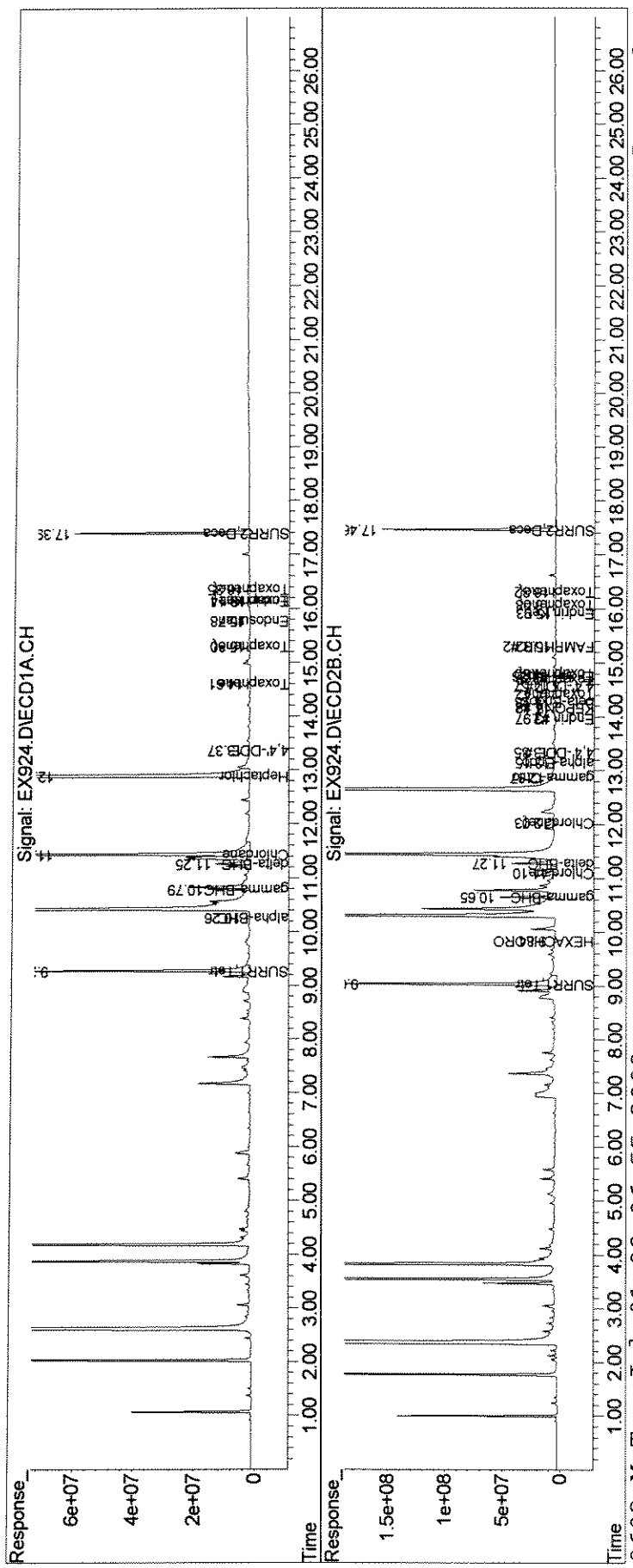
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum Chlordane			2751.5E6	140.3E6	3595.698	53.141
Average Chlordane					3595.698	26.570

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 7:36 pm
Operator : M.PEDRO
Sample : 1112810 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:51 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
 Client Sample ID : MW-16B

Date Sampled : 06/26/08 14:05 Order #: 1112810 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 07/11/08		
ANALYTICAL DILUTION:	10.00		
ALDRIN	0.047	0.47 U	UG/L
ALPHA-BHC	0.047	0.47 U	UG/L
BETA-BHC	0.047	0.47 U	UG/L
GAMMA-BHC	0.047	0.47 U	UG/L
DELTA-BHC	0.047	0.47 U	UG/L
ALPHA-CHLORDANE	0.047	0.47 U	UG/L
GAMMA-CHLORDANE	0.047	0.47 U	UG/L
CHLORDANE	0.24	2.4 U	UG/L
4,4'-DDE	0.047	0.47 U	UG/L
4,4'-DDT	0.047	0.47 U	UG/L
DIELDRIN	0.094	0.94 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.47 U	UG/L
BETA-ENDOSULFAN	0.094	0.94 U	UG/L
ENDOSULFAN SULFATE	0.094	0.94 U	UG/L
ENDRIN	0.047	0.47 U	UG/L
ENDRIN ALDEHYDE	0.094	0.94 U	UG/L
ENDRIN KETONE	0.094	0.94 U	UG/L
HEPTACHLOR	0.047	0.47 U	UG/L
HEPTACHLOR EPOXIDE	0.047	1.6 D	UG/L
HEXACHLOROBENZENE	0.047	0.47 U	UG/L
METHOXYCHLOR	0.47	4.7 U	UG/L
4,4'-TDE (DDD)	0.047	0.47 U	UG/L
TOXAPHENE	0.94	9.4 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	78	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	108	%

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey073.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 2:18 pm
 Operator : M.PEDRO
 Sample : 1112810 10.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 40 Sample Multiplier: 1

Handwritten initials in a circle

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:19:26 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	196.2E6	873.9E6	9.720	10.799
Spiked Amount	100.000	Range	30 - 150	Recovery	= 9.72%#	10.80%#
25) S SURR2,Decachloro	17.61	17.86	120.9E6	427.6E6	6.924m	7.765
Spiked Amount	100.000	Range	30 - 150	Recovery	= 6.92%#	7.76%#
Target Compounds						
9) tc Heptachlor E	13.08	12.99	728.1E6	2783.6E6	31.989	34.624m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

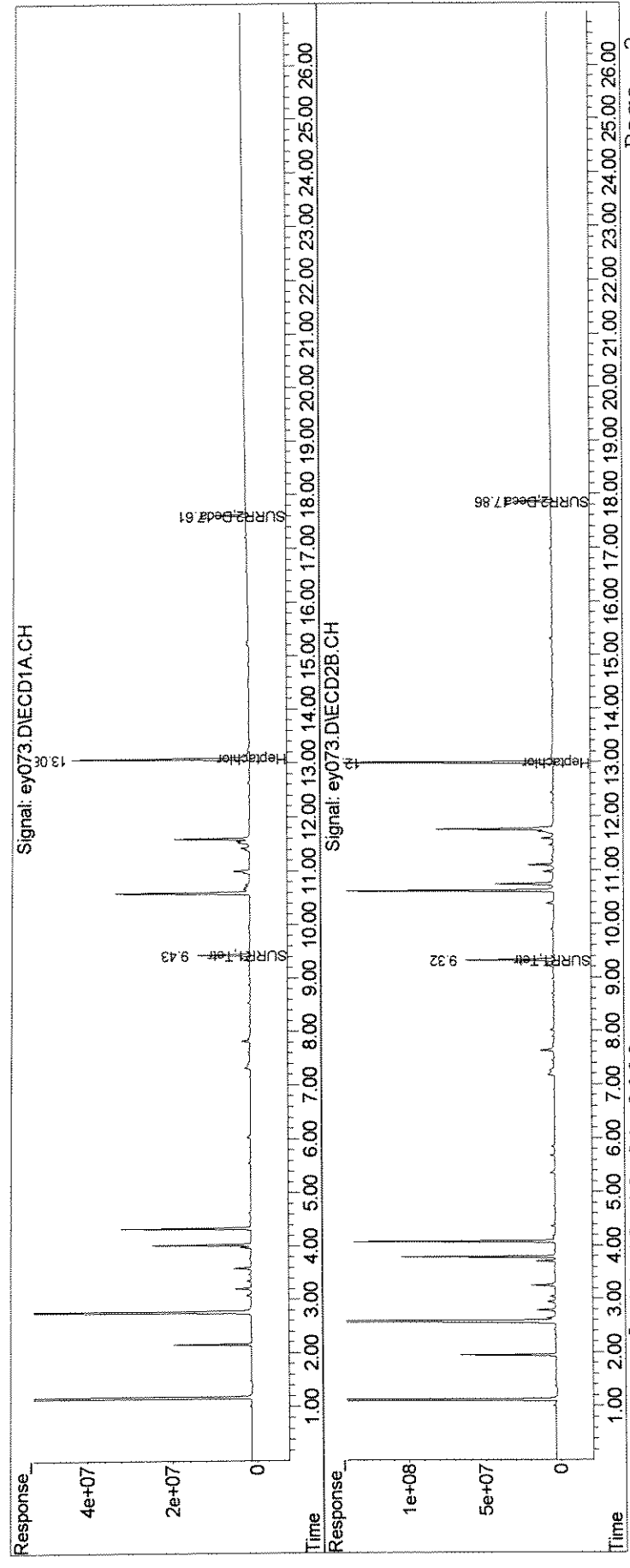
Handwritten initials

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\071008\
Data File : ey073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:18 pm
Operator : M.PEDRO
Sample : 1112810 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 07:19:26 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

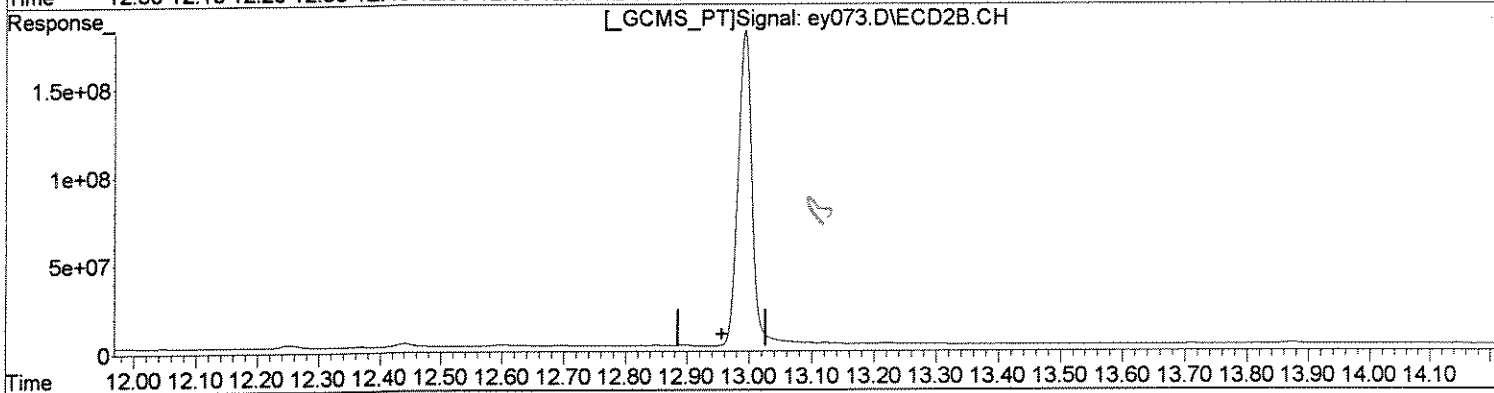
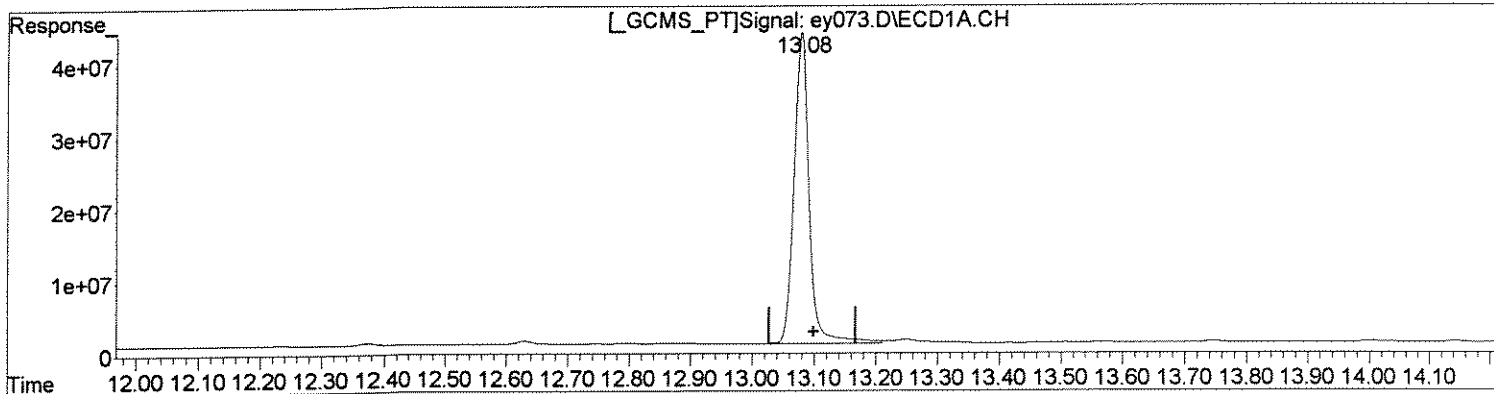


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:18 pm
Operator : M.PEDRO
Sample : 1111809 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 06:44:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.08min 31.989ug/l
response 728115156

(9) Heptachlor E #2 (tc)
0.00min 0.000ug/l
response 0

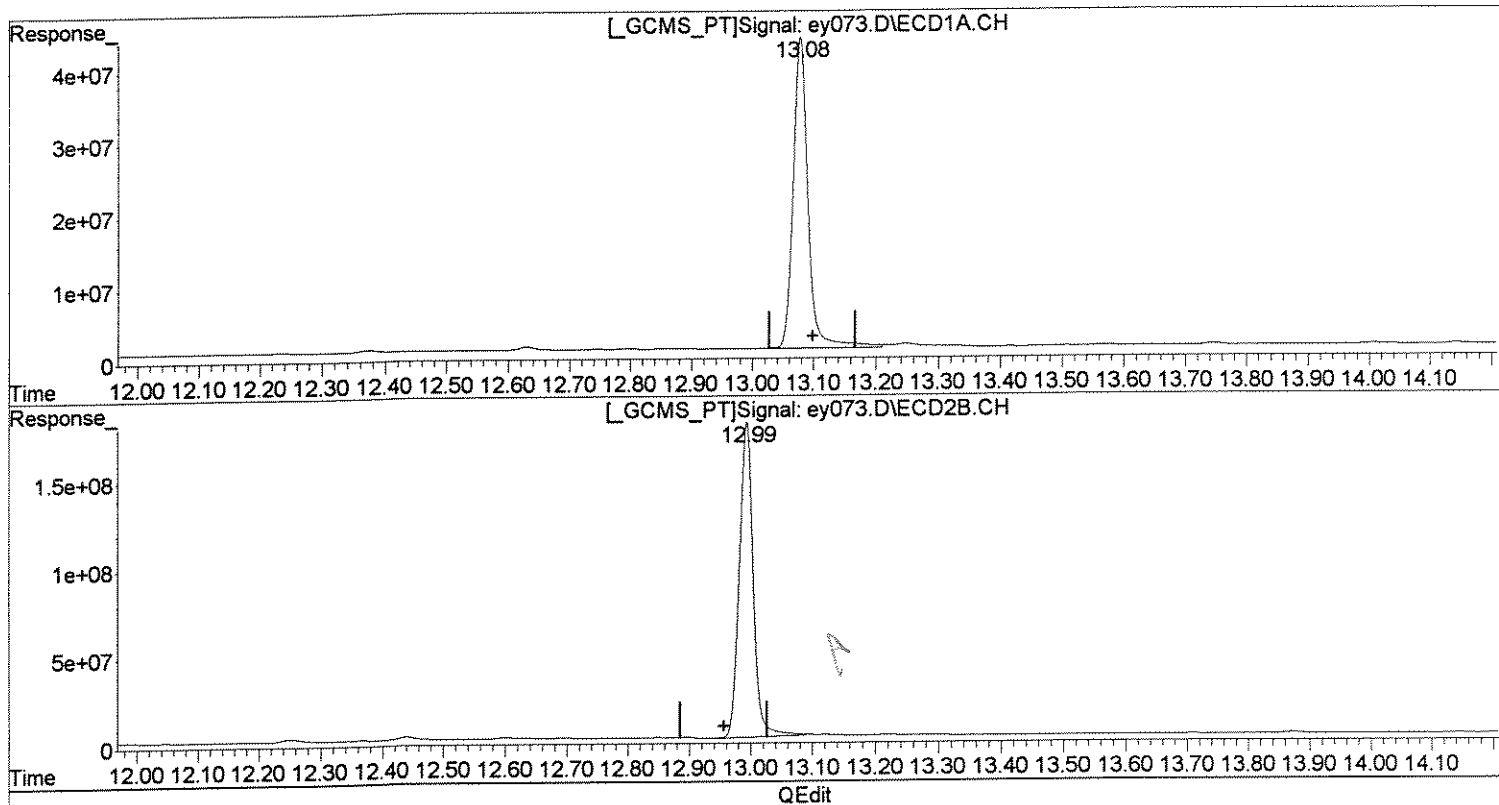
PWC

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:18 pm
Operator : M.PEDRO
Sample : 1111809 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 06:44:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.08min 31.989ug/l
response 728115156

MW 7/14

(9) Heptachlor E #2 (tc)
12.99min 34.624ug/l m
response 2783646828

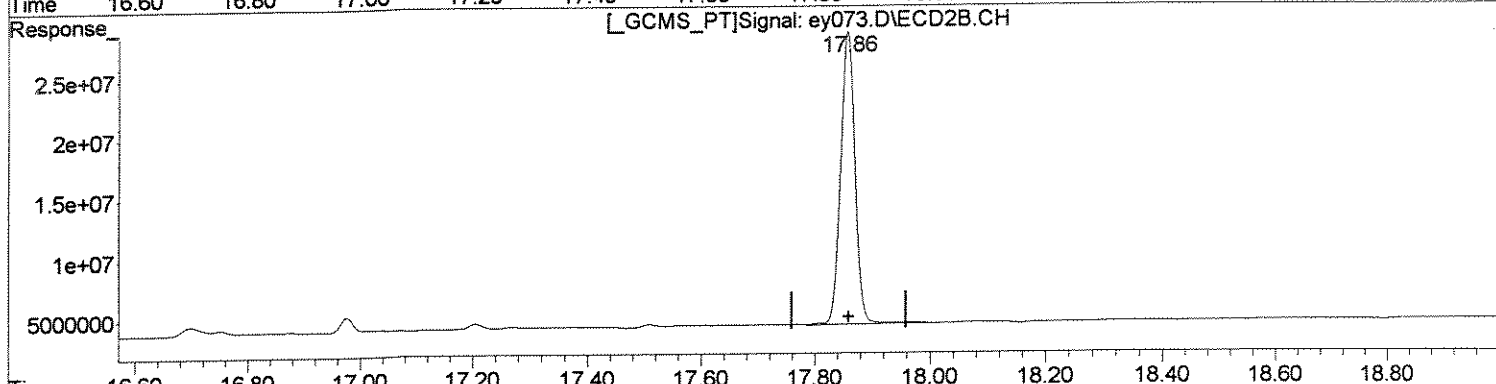
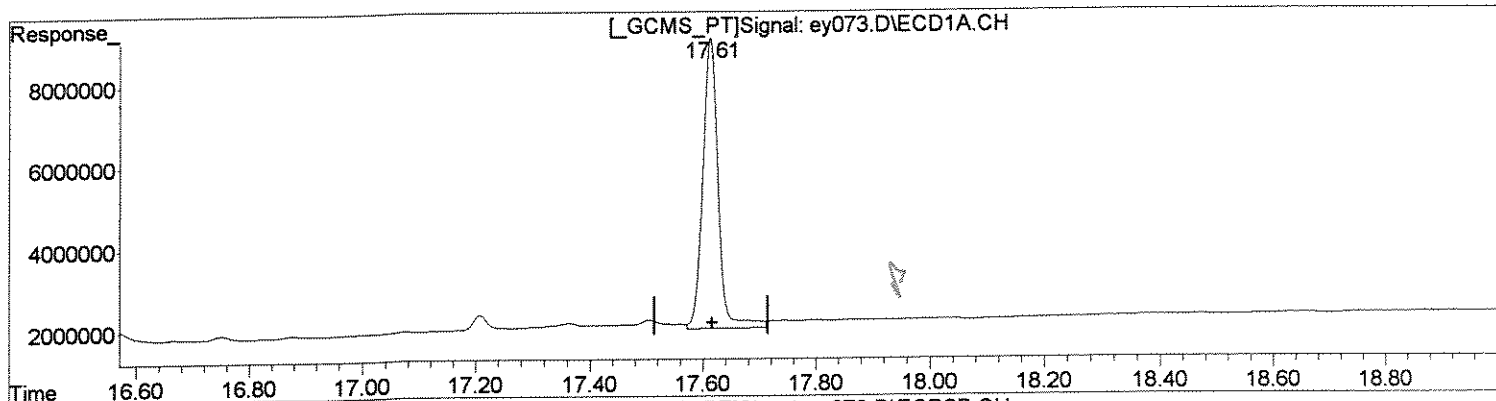
MW 7/14

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:18 pm
Operator : M.PEDRO
Sample : 1111809 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 07:19:13 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURRE2,Decachlorobiphenyl (S)
17.61min 7.605ug/l
response 132822578

(25) SURRE2,Decachlorobiphenyl #2 (S)
17.86min 7.765ug/l
response 427649395

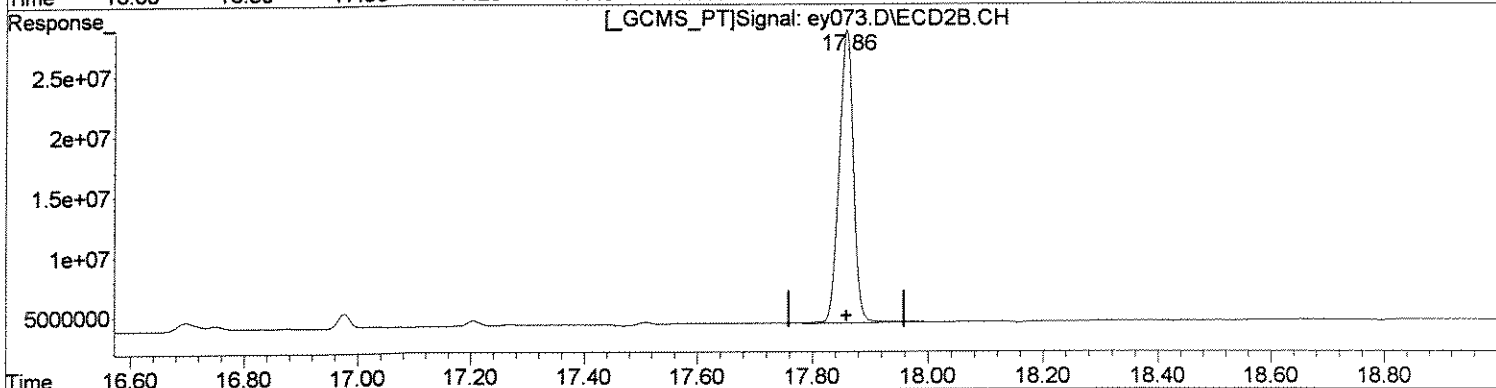
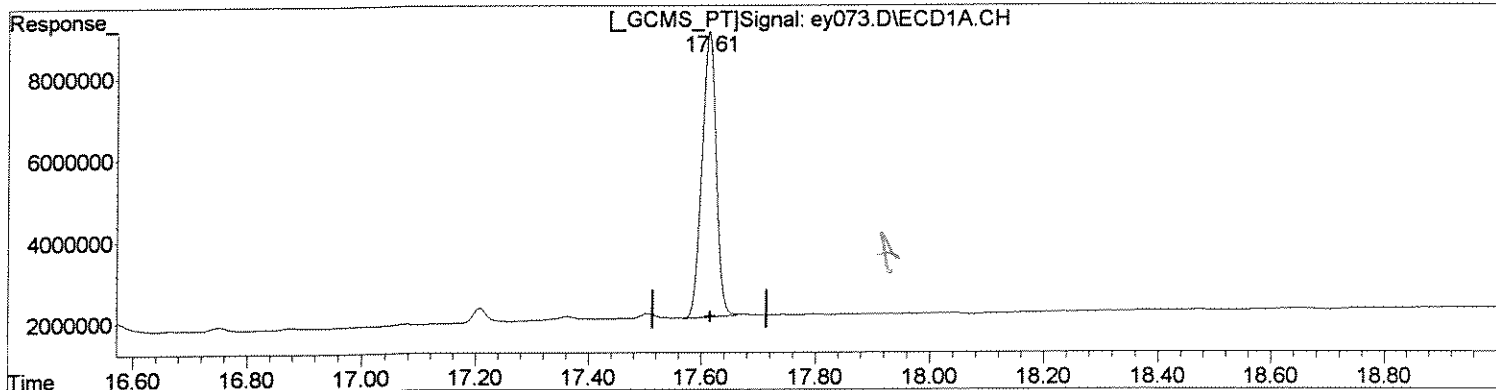
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:18 pm
Operator : M.PEDRO
Sample : 1111809 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 07:19:13 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURRE2,Decachlorobiphenyl (S)
17.61min 6.924ug/l m
response 120933871

(25) SURRE2,Decachlorobiphenyl #2 (S)
17.86min 7.765ug/l
response 427649395

WP
7/14

WP
7/14

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY073.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 2:18 pm
 Operator : M. PEDRO
 Sample : 1111809 10.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 06:44:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	196.2E6	873.9E6	9.720	10.799
Spiked Amount	100.000	Range 30 - 150	Recovery =		9.72%#	10.80%#
25) S SURR2,Decachloro	17.61	17.86	132.8E6	427.6E6	7.605	7.765
Spiked Amount	100.000	Range 30 - 150	Recovery =		7.61%#	7.76%#
Target Compounds						
2) TC HEXACHLOROBENZEN	0.00	10.15	0	8752292	N.D.	0.072 #
3) tc alpha-BHC	10.44	10.38	5230333	108.2E6	0.169	0.912 #
4) tcm gamma-BHC (L	10.97	10.97	22380918	132.8E6	0.793	1.264 #
8) tc delta-BHC	11.39	11.59	15901803	162.7E6	0.585	1.576 #
9) tc Heptachlor E	13.08	0.00	728.1E6	0	31.989	N.D. #
11) tc gamma-Chlord	0.00	13.22	0	44651111	N.D.	0.544 #
13) tc 4,4'-DDE	13.57	0.00	3944695	0	0.181	N.D. #
14) tcm Dieldrin	0.00	13.92	0	15976870	N.D.	0.204 #
15) tcm Endrin	14.40	14.34	1794842	18683117	0.087	0.277 #
16) tc KEPONE	14.46	14.53	8319578	64963025	1.137	2.825 #
17) tc beta-Endosul	0.00	14.67	0	16651865	N.D.	0.259 #
18) tc 4,4'-DDD	14.46	0.00	8319578	0	0.462	N.D. #
19) tcm 4,4'-DDT	0.00	14.97	0	25674854	N.D.	0.392 #
20) tc Endrin Aldeh	0.00	15.15	0	26083648	N.D.	0.532 #
24) tc Endrin Keton	0.00	16.30	0	5701056	N.D.	0.091 #
27) L8C Toxaphene {2}	0.00	15.05	0	10494039	N.D.	11.632 #
28) L8C Toxaphene {3}	0.00	15.15	0	26083648	N.D.	13.953 #
29) L8C Toxaphene {4}	0.00	16.45	0	7854231	N.D.	4.078 #
30) L8C Toxaphene {5}	0.00	16.70	0	22253441	N.D.	9.862 #
Sum Toxaphene			0	66685359	N.D.	39.525
Average Toxaphene					0.000	9.881
31) L9C Chlordane	11.60	11.41	279.5E6	25954394	350.574	8.027 #
33) L9C Chlordane {3}	12.37	12.37	4838277	27656401	4.690	7.726 #
34) L9C Chlordane {4}	0.00	13.22	0	44651111	N.D.	4.456 #
Sum Chlordane			284.3E6	98261906	355.264	20.208

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY073.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 2:18 pm
 Operator : M.PEDRO
 Sample : 1111809 10.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 06:44:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

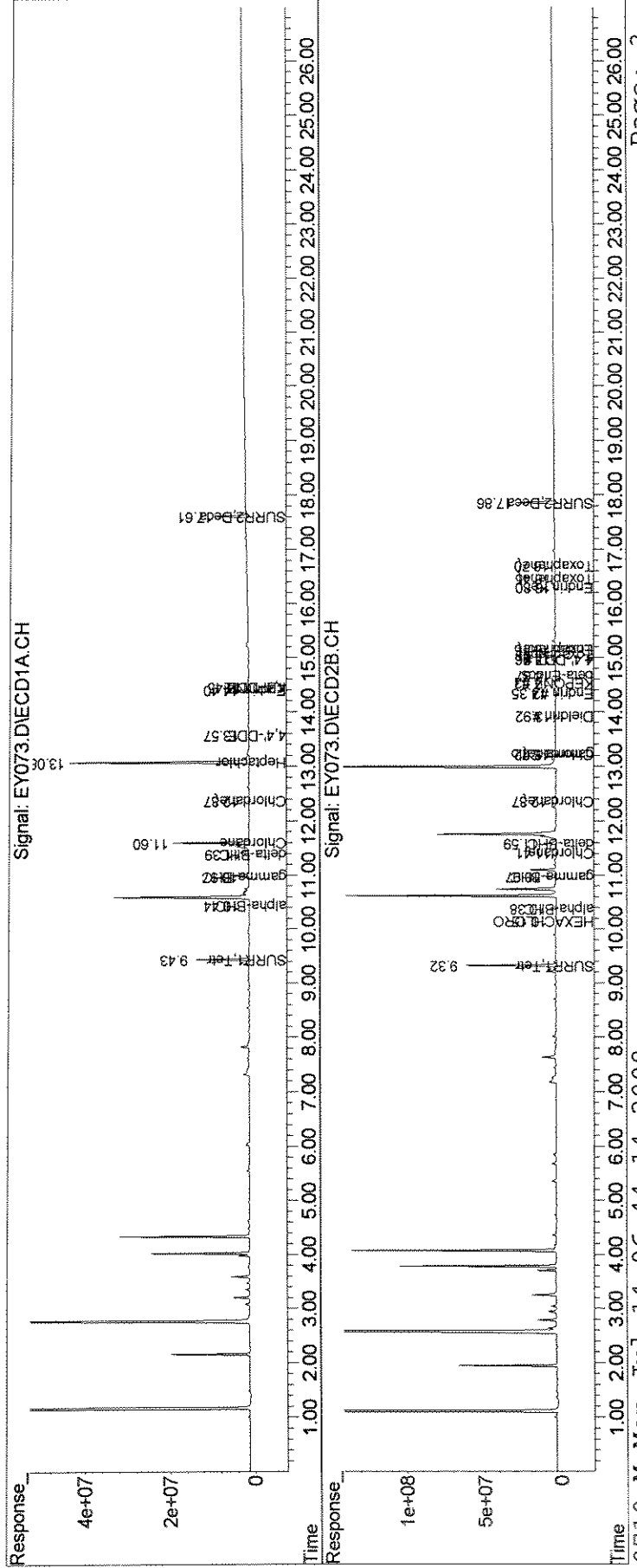
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average Chlordane					177.632	6.736

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:18 pm
Operator : M.PEDRO
Sample : 1111809 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 06:44:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01155

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-5AB

Date Sampled : 06/26/08 09:10 Order #: 1112811 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	1.3 E	UG/L
BETA-BHC	0.047	0.047 U	UG/L
GAMMA-BHC	0.047	0.047 U	UG/L
DELTA-BHC	0.047	0.23	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.047 U	UG/L
HEXACHLOROBENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	74	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	96	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex925.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:11 pm
 Operator : M.PEDRO
 Sample : 1112811 1.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:13:34 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

 System Monitoring Compounds

1) S SURR1,Tetrac	9.27	9.03	1815.0E6	4335.3E6	96.373m	71.052m#
Spiked Amount	100.000	Range	30 - 150	Recovery	=	96.37% 71.05%
25) S SURR2,Decachloro	17.39	17.46	1257.3E6	2817.4E6	73.609	64.544
Spiked Amount	100.000	Range	30 - 150	Recovery	=	73.61% 64.54%

Target Compounds

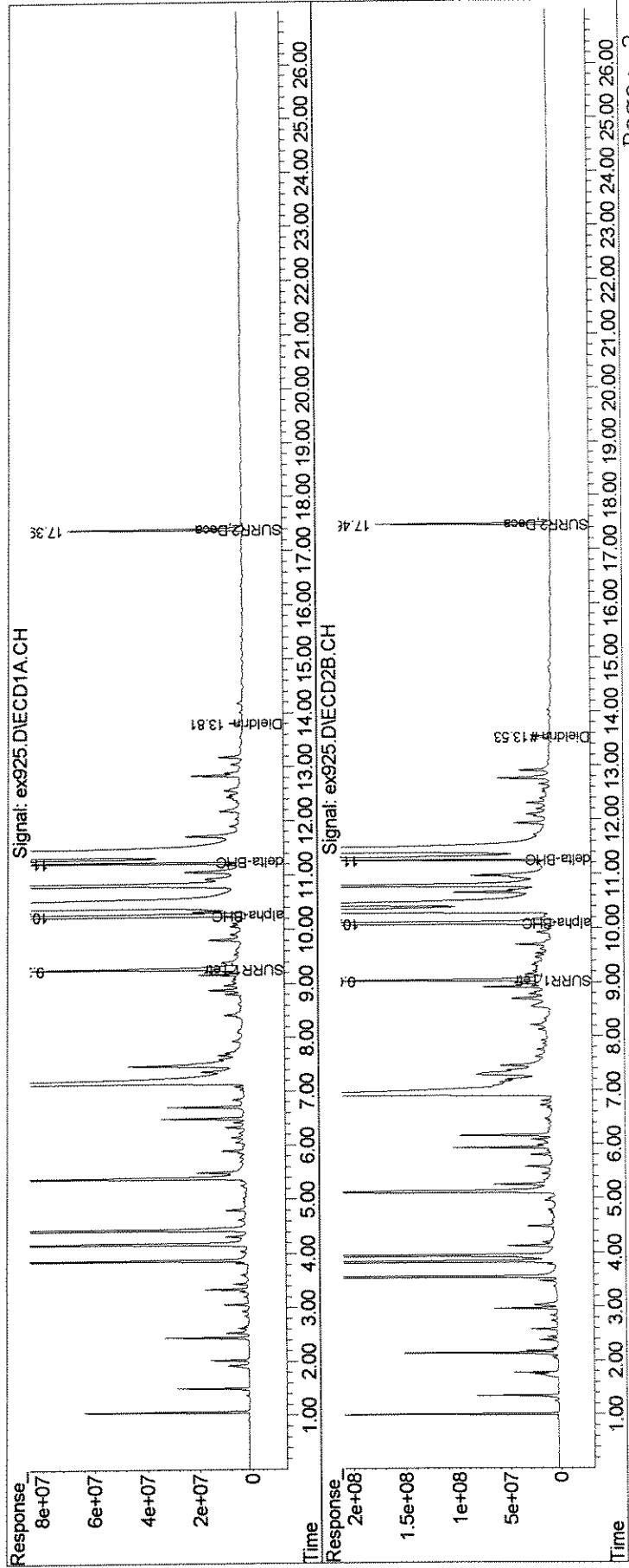
3) tc alpha-BHC	10.26	10.09	8141.4E6	21449.3E6	271.101	231.967
8) tc delta-BHC	11.24	11.25	1350.5E6	2038.7E6	48.830m	24.535m#
14) tcm Dieldrin	13.81	13.53	115.3E6	358.2E6	4.950m	5.489m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\063008\
Data File : ex925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:11 pm
Operator : M.PEDRO
Sample : 1112811 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 10:13:34 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

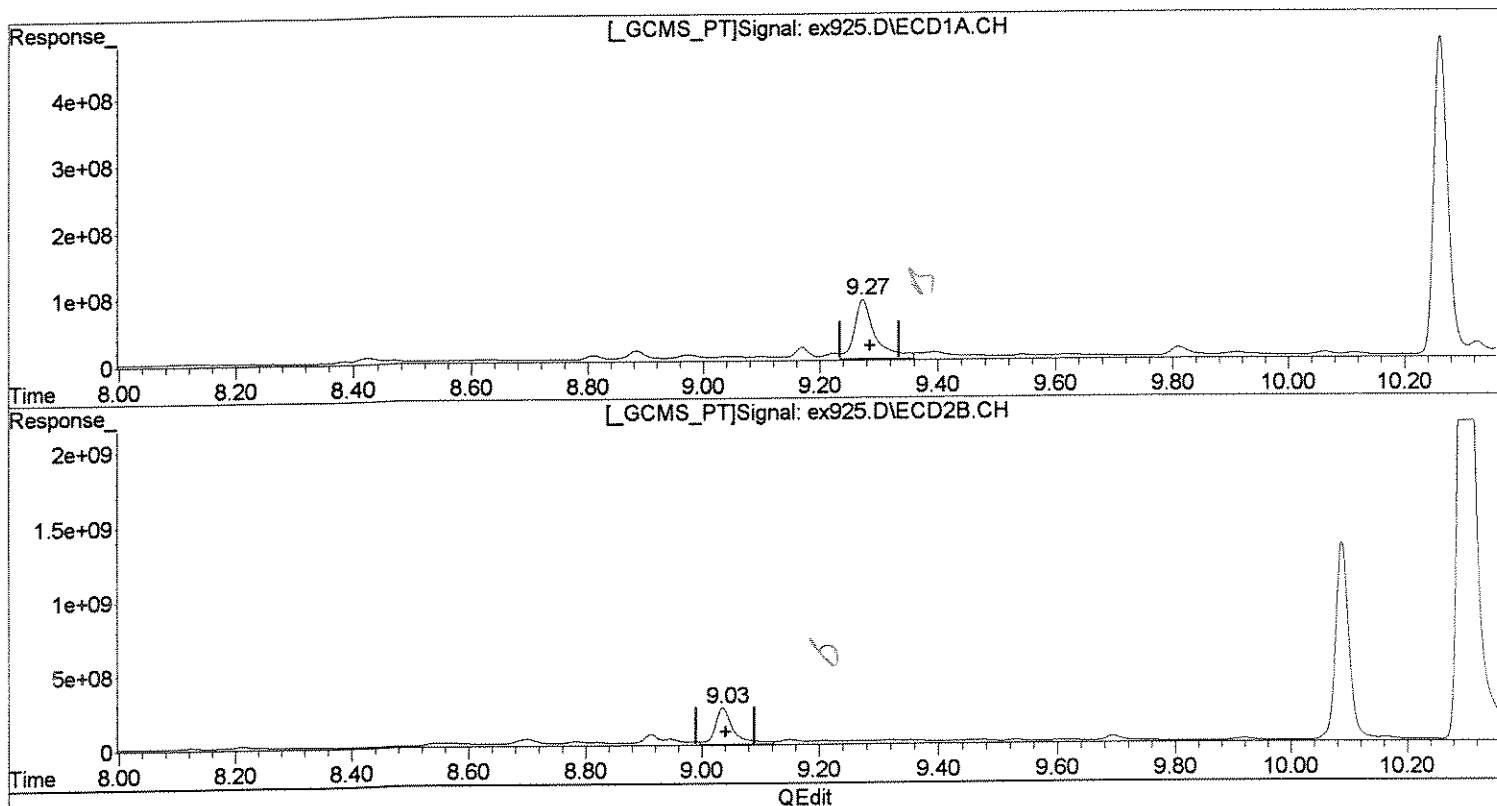


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:11 pm
Operator : M.PEDRO
Sample : 1112811 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
9.27min 113.800ug/l
response 2143231408

(1) SURR1,Tetrac #2 (S)
9.04min 88.239ug/l
response 5383967459

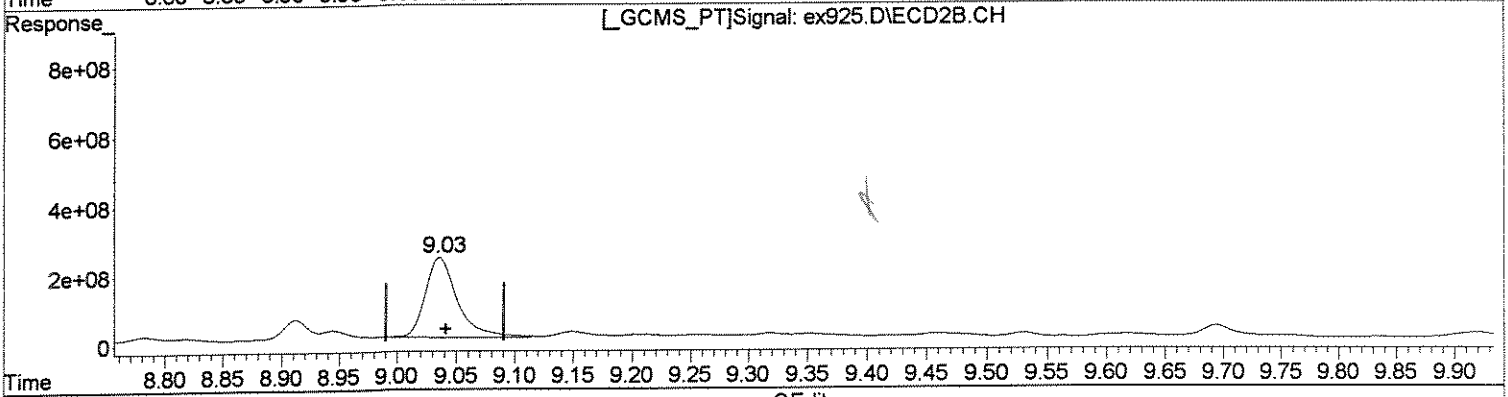
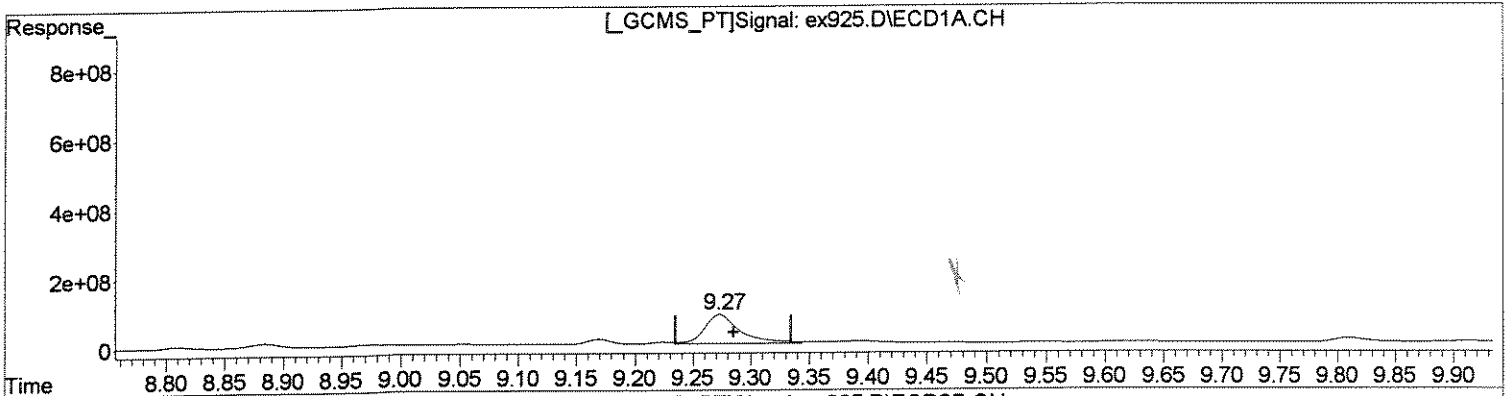
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:11 pm
Operator : M.PEDRO
Sample : 1112811 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
9.27min 96.373ug/l m
response 1815034971

(1) SURR1,Tetrac #2 (S)
9.03min 71.052ug/l m
response 4335292105

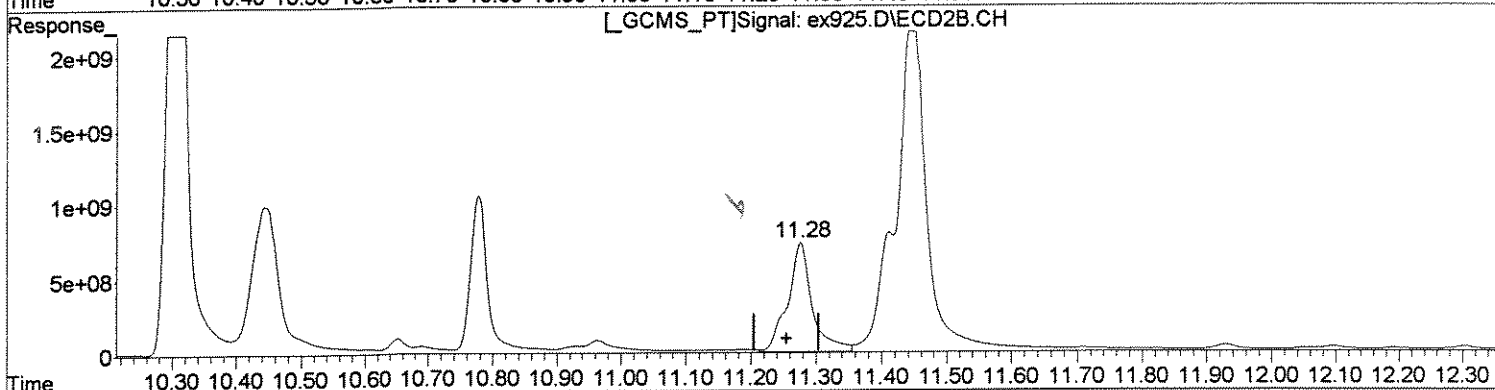
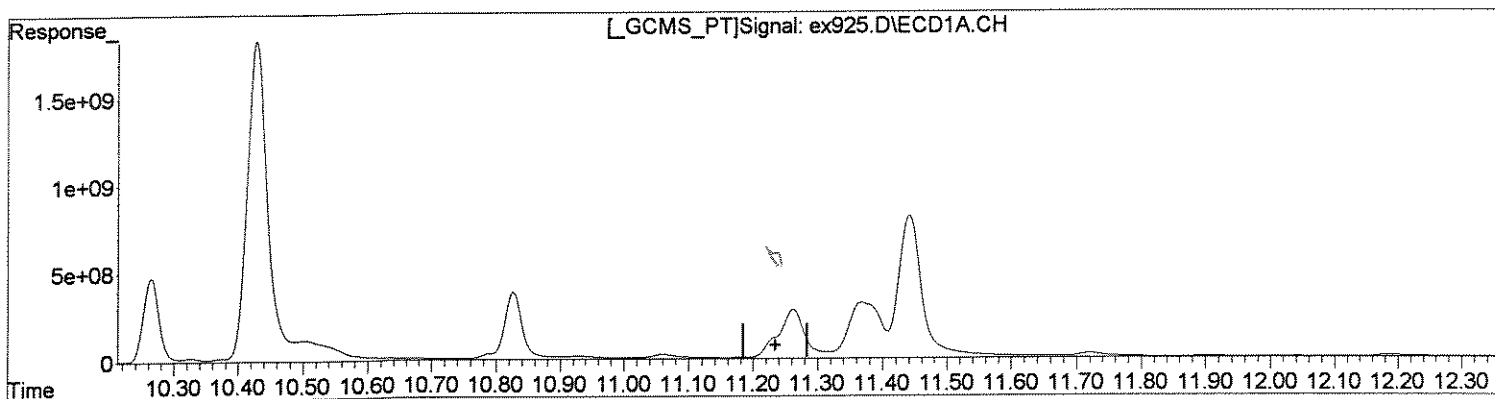
mw 7/1
mw 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:11 pm
Operator : M.PEDRO
Sample : 1112811 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
0.00min 0.000ug/l
response 0

(8) delta-BHC #2 (tc)
11.28min 228.440ug/l
response 18981797036

Handwritten: 11.28

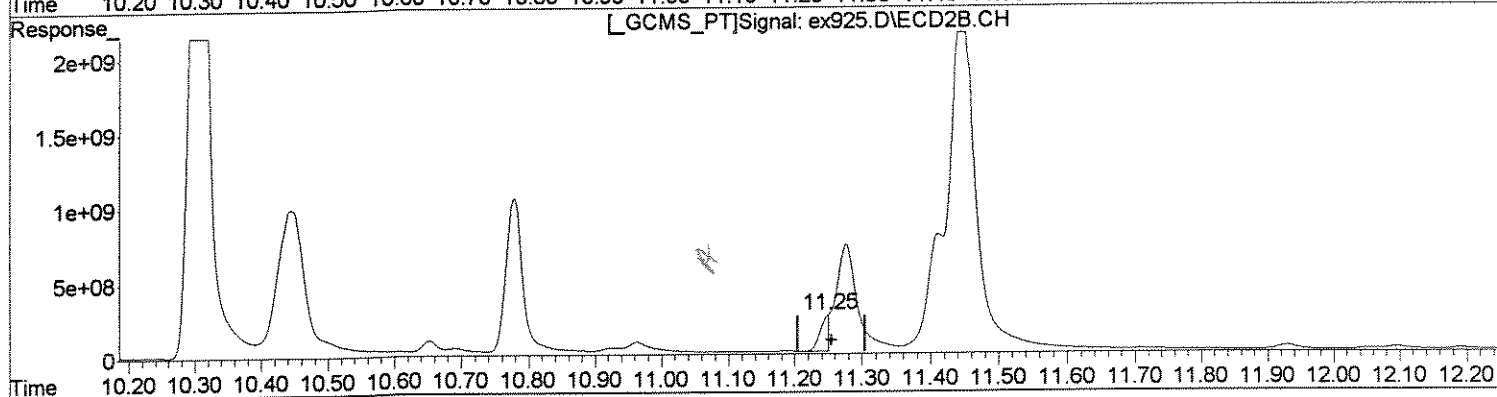
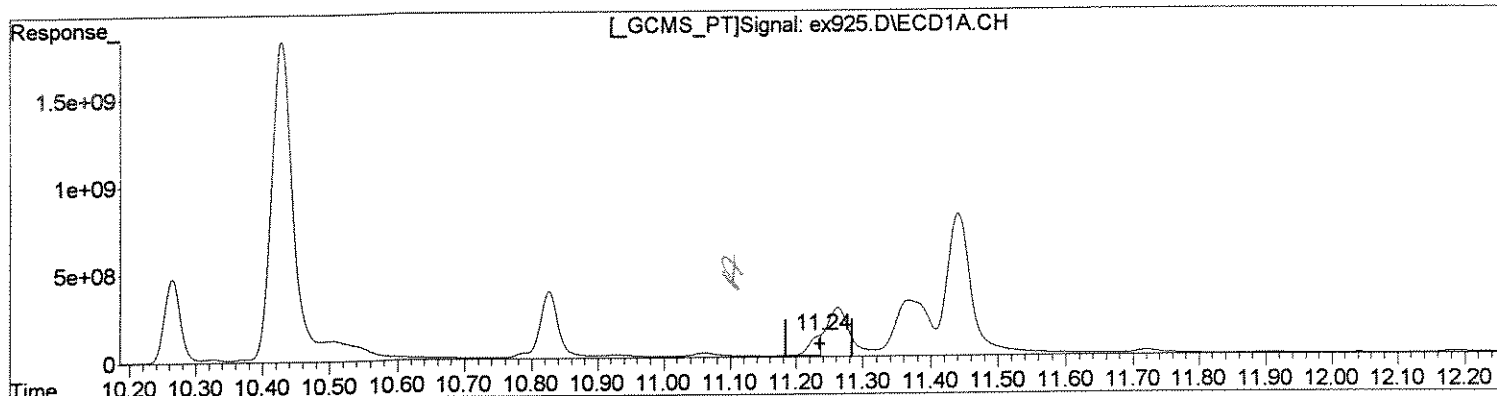
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:11 pm
Operator : M.PEDRO
Sample : 1112811 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.24min 48.830ug/l m
response 1350473249

(8) delta-BHC #2 (tc)
11.25min 24.535ug/l m
response 2038671950

Handwritten notes:
11.24
11.25
7/1

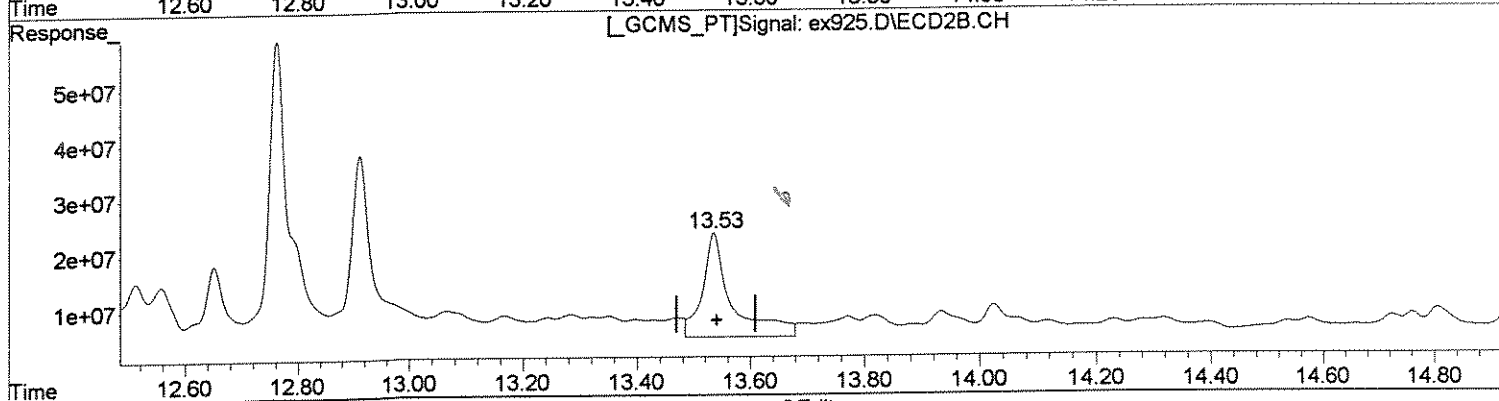
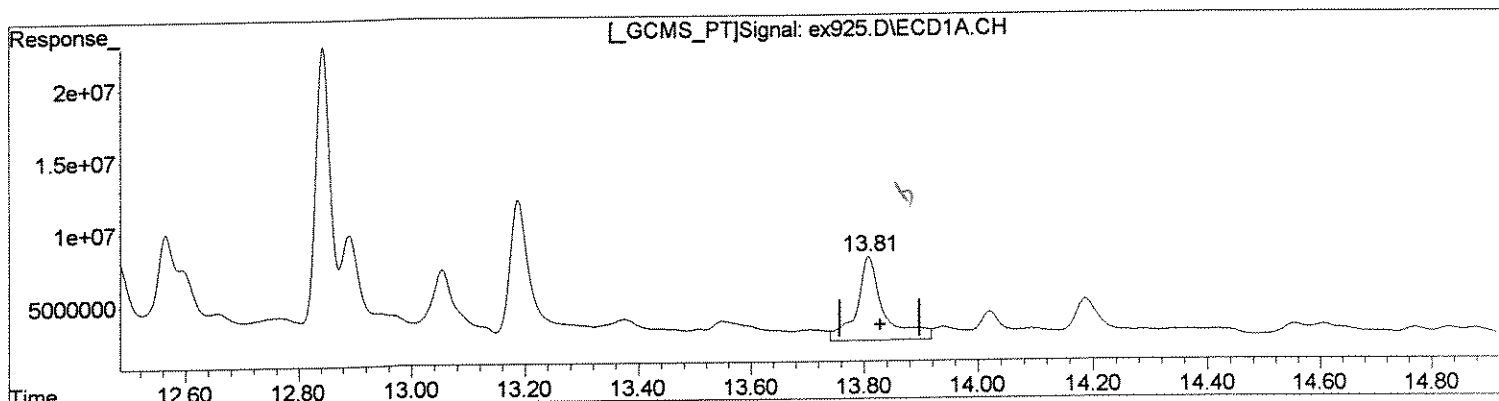
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:11 pm
Operator : M.PEDRO
Sample : 1112811 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)
13.81min 8.083ug/l
response 188196112

(14) Dieldrin #2 (tcm)
13.53min 10.344ug/l
response 674963084

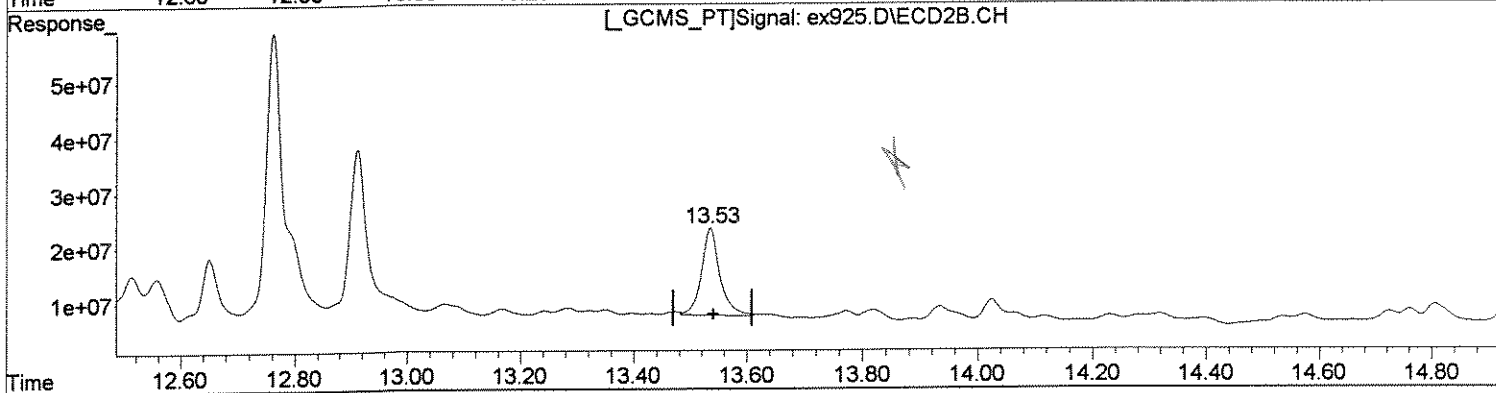
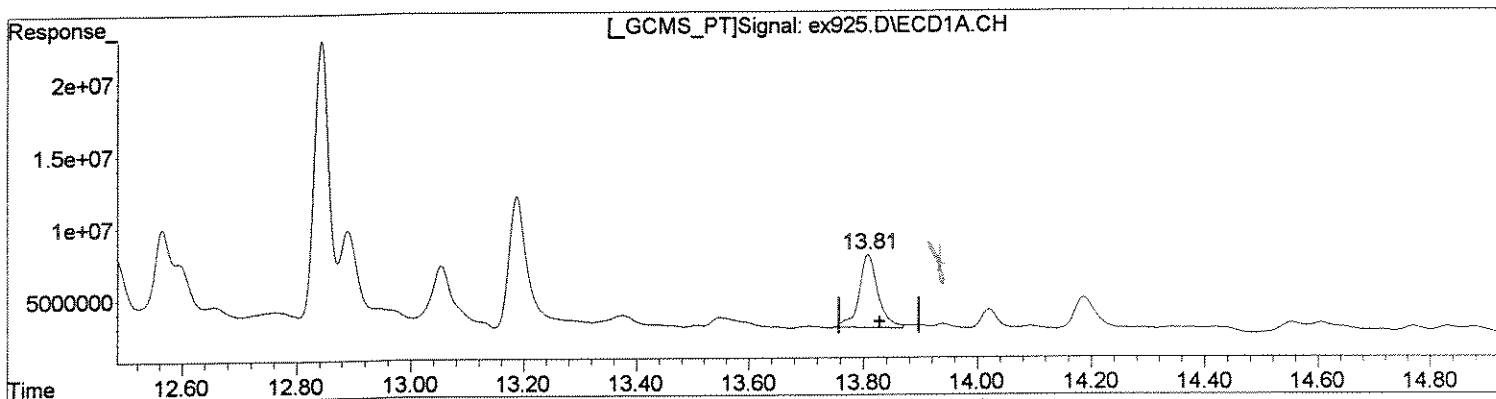
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:11 pm
Operator : M.PEDRO
Sample : 1112811 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)
13.81min 4.950ug/l m
response 115255024

(14) Dieldrin #2 (tcm)
13.53min 5.489ug/l m
response 358158239

Handwritten notes:
M.P.
7/1

(+) = Expected Retention Time

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX925.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:11 pm
 Operator : M.PEDRO
 Sample : 1112811 1.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:58 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

1) S SURR1,Tetrac	9.27	9.04	2143.2E6	5384.0E6	113.800	88.239
Spiked Amount	100.000	Range 30 - 150	Recovery =		113.80%	88.24%
25) S SURR2,Decachloro	17.39	17.46	1257.3E6	2817.4E6	73.609	64.544
Spiked Amount	100.000	Range 30 - 150	Recovery =		73.61%	64.54%

Target Compounds

3) tc alpha-BHC	10.26	10.09	8141.4E6	21449.3E6	271.101	231.967
4) tcm gamma-BHC (L)	10.83	10.65	7715.2E6	1907.6E6	280.664	23.219 #
6) tcm Aldrin	11.99	0.00	60170967	0	2.445	N.D. #
8) tc delta-BHC	0.00	11.28	0	18981.8E6	N.D.	228.440 #
9) tc Heptachlor E	12.89	0.00	266.1E6	0	11.547	N.D. #
10) tc alpha-Endosu	13.51	13.17	16591389	174.9E6	0.805	2.936 #
12) tc alpha-Chlord	0.00	13.07	0	256.2E6	N.D.	3.857 #
13) tc 4,4'-DDE	13.37	13.32	111.4E6	63522391	4.954	0.975 #
14) tcm Dieldrin	13.81	13.53	188.2E6	675.0E6	8.083	10.344 #
15) tcm Endrin	14.19	0.00	93920769	0	4.503	N.D. #
16) tc KEPONE	0.00	14.18	0	33349926	N.D.	1.949 #
18) tc 4,4'-DDD	0.00	14.12	0	65720282	N.D.	1.273 #
19) tcm 4,4'-DDT	0.00	14.57	0	75935439	N.D.	1.386 #
20) tc Endrin Aldeh	0.00	14.76	0	64926847	N.D.	1.614 #
23) tc FAMPHUR	16.07	15.30	12317155	87252454	0.948	2.745 #
24) tc Endrin Keton	16.16	15.93	34016010	22391082	1.629	0.414 #
26) L8C Toxaphene	14.61	0.00	47748000	0	114.337	N.D. #
28) L8C Toxaphene {3}	15.29	14.81	28206633	142.3E6	39.442	86.143 #
29) L8C Toxaphene {4}	16.16	0.00	34016010	0	38.269	N.D. #
30) L8C Toxaphene {5}	16.35	16.31	28113443	59432351	41.640	34.122
Sum Toxaphene			138.1E6	201.7E6	233.687	120.265
Average Toxaphene					58.422	60.133

31) L9C Chlordane	11.44	0.00	21394.3E6	0	27957.930	N.D. #
33) L9C Chlordane {3}	0.00	12.05	0	461.9E6	N.D.	166.375 #
34) L9C Chlordane {4}	0.00	12.91	0	1090.7E6	N.D.	137.829 #

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX925.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:11 pm
 Operator : M.PEDRO
 Sample : 1112811 1.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:06:58 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) L9C Chlordane{5}	0.00	14.39	0	58116802	N.D.	19.086 #
Sum Chlordane			21394.3E6	1610.7E6	27957.930	323.290
Average Chlordane					27957.930	107.763

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 08/07/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
 Client Sample ID : M-5AB

Date Sampled : 06/26/08 09:10 Order #: 1112811 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 07/11/08		
ANALYTICAL DILUTION:	10.00		
ALDRIN	0.047	0.47 U	UG/L
ALPHA-BHC	0.047	1.6 D	UG/L
BETA-BHC	0.047	0.47 U	UG/L
GAMMA-BHC	0.047	0.47 U	UG/L
DELTA-BHC	0.047	0.47 U	UG/L
ALPHA-CHLORDANE	0.047	0.47 U	UG/L
GAMMA-CHLORDANE	0.047	0.47 U	UG/L
CHLORDANE	0.24	2.4 U	UG/L
4,4'-DDE	0.047	0.47 U	UG/L
4,4'-DDT	0.047	0.47 U	UG/L
DIELDRIN	0.094	0.94 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.47 U	UG/L
BETA-ENDOSULFAN	0.094	0.94 U	UG/L
ENDOSULFAN SULFATE	0.094	0.94 U	UG/L
ENDRIN	0.047	0.47 U	UG/L
ENDRIN ALDEHYDE	0.094	0.94 U	UG/L
ENDRIN KETONE	0.094	0.94 U	UG/L
HEPTACHLOR	0.047	0.47 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.47 U	UG/L
HEXACHLOROBENZENE	0.047	0.47 U	UG/L
METHOXYCHLOR	0.47	4.7 U	UG/L
4,4'-TDE (DDD)	0.047	0.47 U	UG/L
TOXAPHENE	0.94	9.4 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	96	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	98	%

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : ey074.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 2:54 pm
 Operator : M.PEDRO
 Sample : 1112811 10.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 21 14:18:52 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

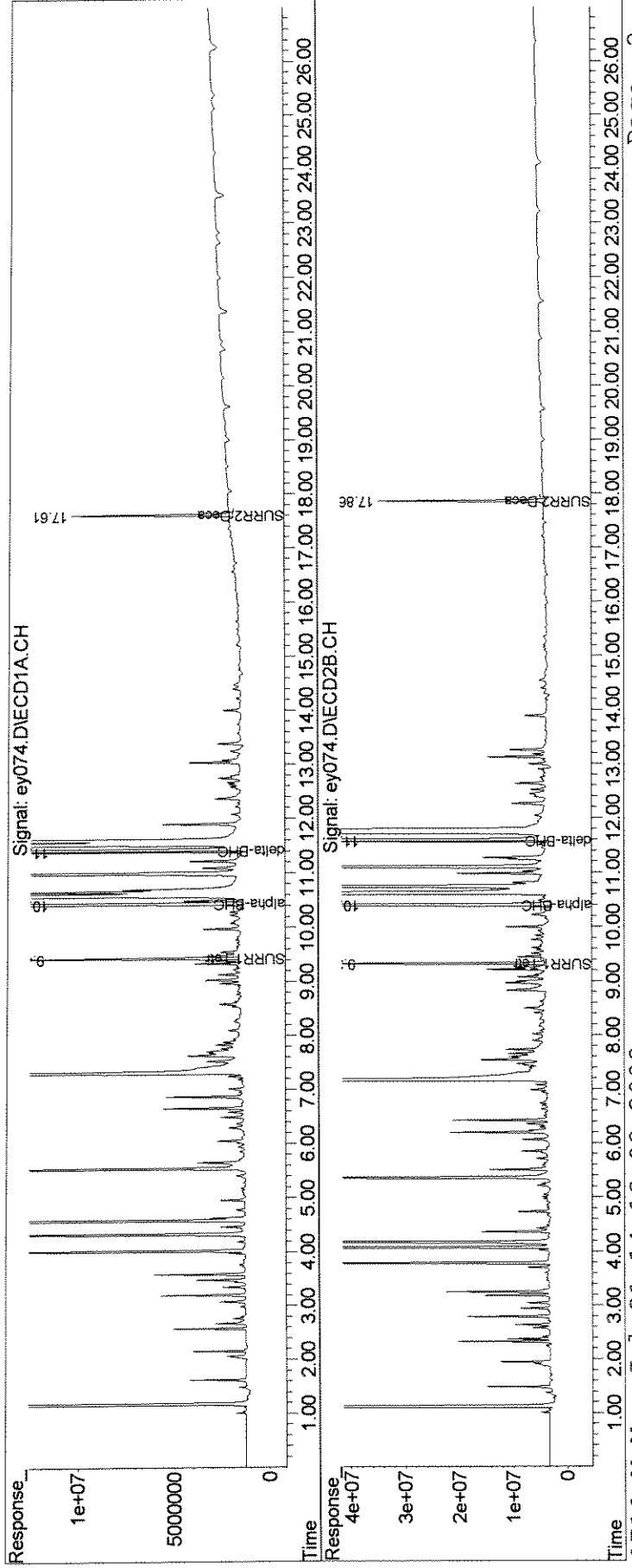
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	198.1E6	785.1E6	9.815m	9.702m
Spiked Amount	100.000	Range 30 - 150	Recovery =		9.81%#	9.70%#
25) S SURR2,Decachloro	17.61	17.86	155.5E6	526.4E6	8.901	9.558
Spiked Amount	100.000	Range 30 - 150	Recovery =		8.90%#	9.56%#
Target Compounds						
3) tc alpha-BHC	10.44	10.40	1059.2E6	4115.4E6	34.260	34.678
8) tc delta-BHC	11.40	11.57	164.3E6	508.6E6	6.041m	4.927m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey074.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 2:54 pm
 Operator : M.PEDRO
 Sample : 1112811 10.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 21 14:18:52 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

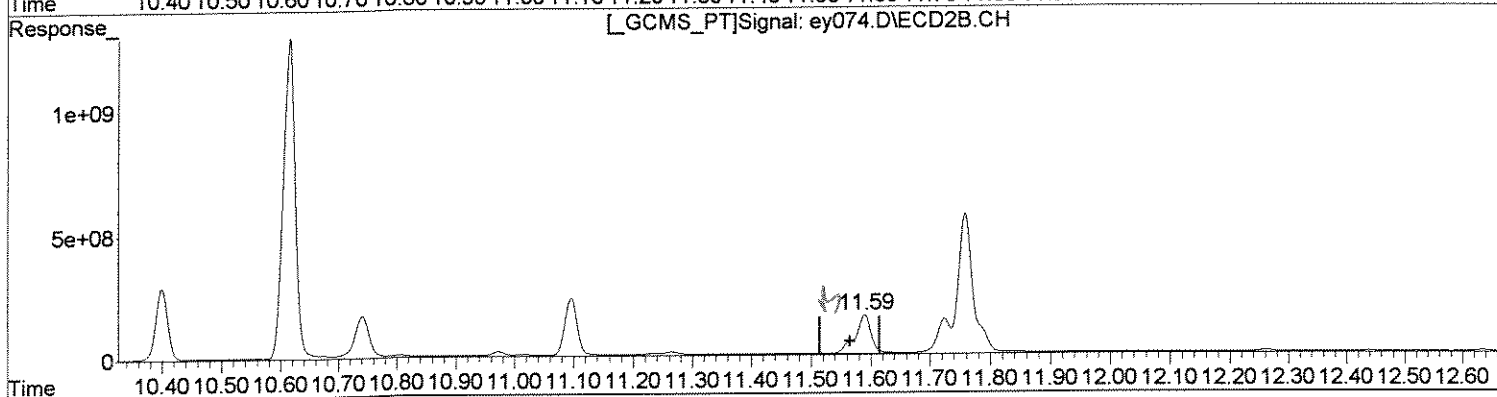
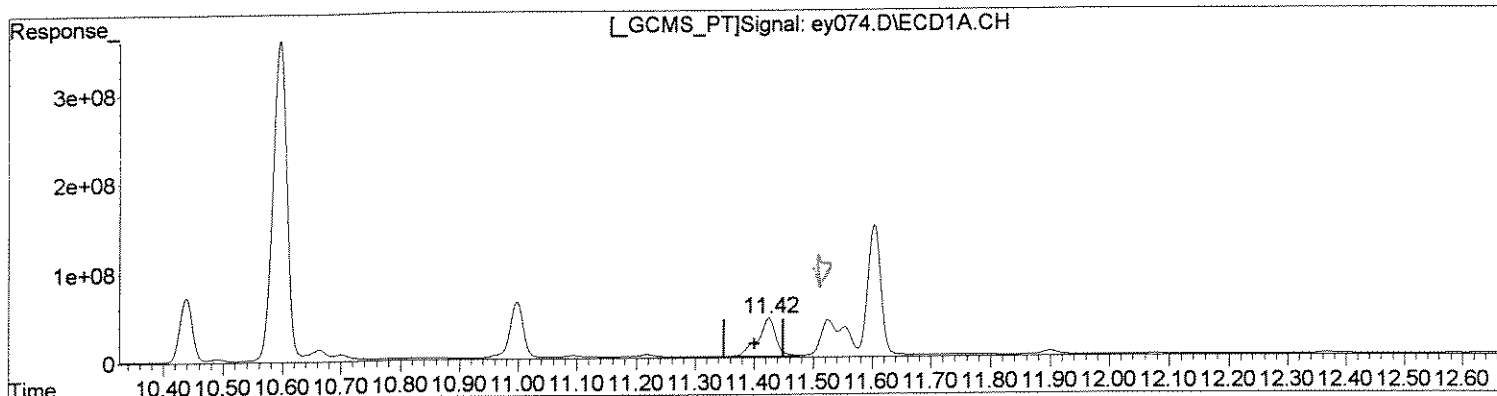


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey074.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:54 pm
Operator : M.PEDRO
Sample : 1112811 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 07:21:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.42min 33.084ug/l
response 899841355

(8) delta-BHC #2 (tc)
11.59min 29.165ug/l
response 3011042384

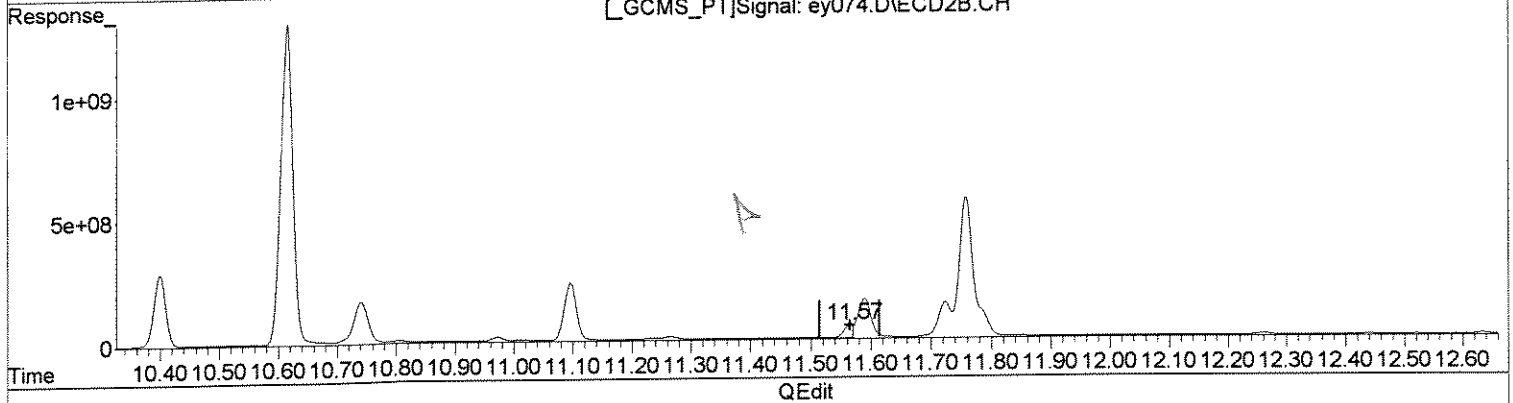
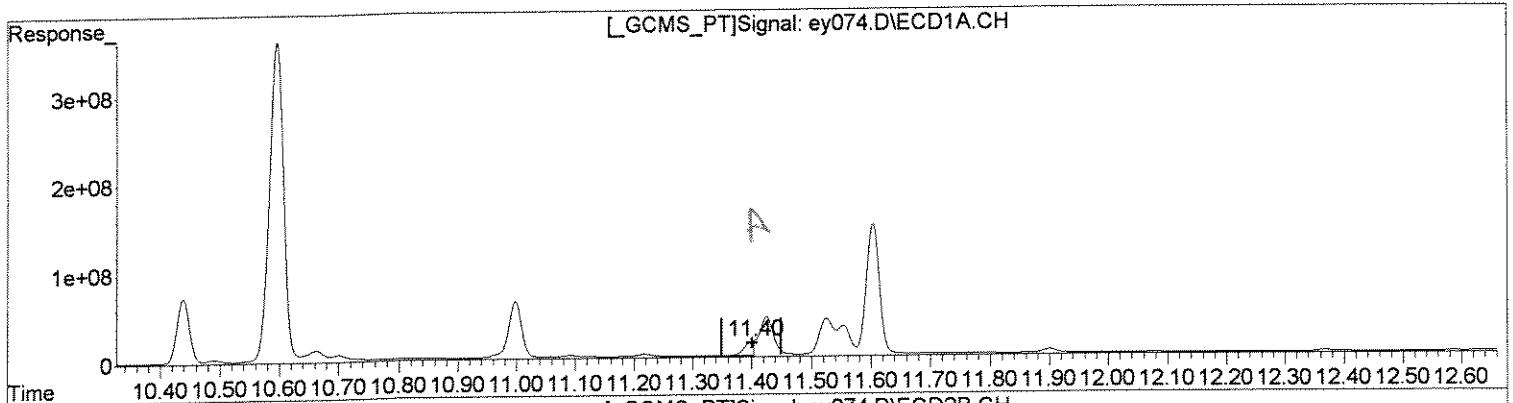
Ramon Gonzalez

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey074.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:54 pm
Operator : M.PEDRO
Sample : 1112811 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 07:21:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.40min 6.041ug/l m
response 164295147

(8) delta-BHC #2 (tc)
11.57min 4.927ug/l m
response 508647809

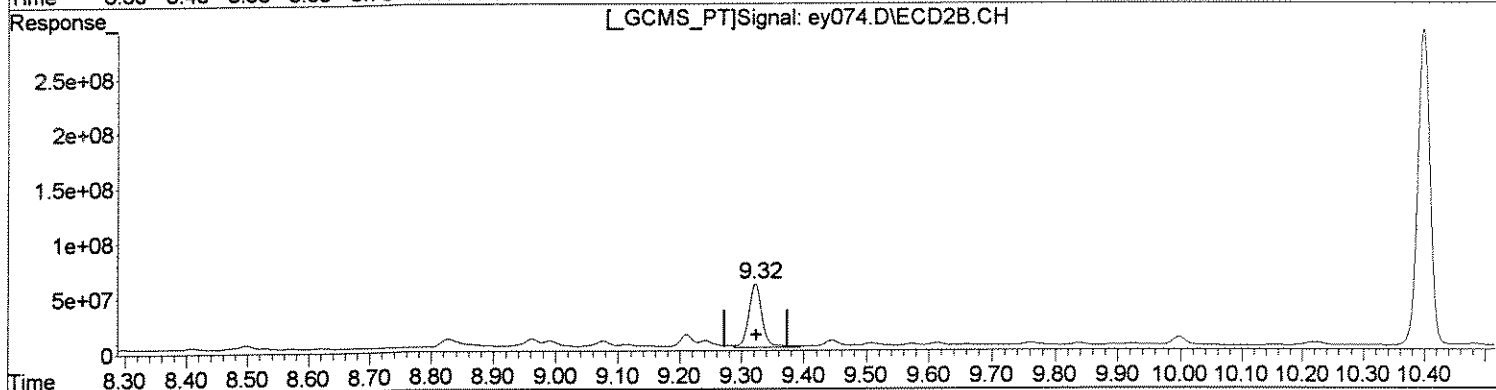
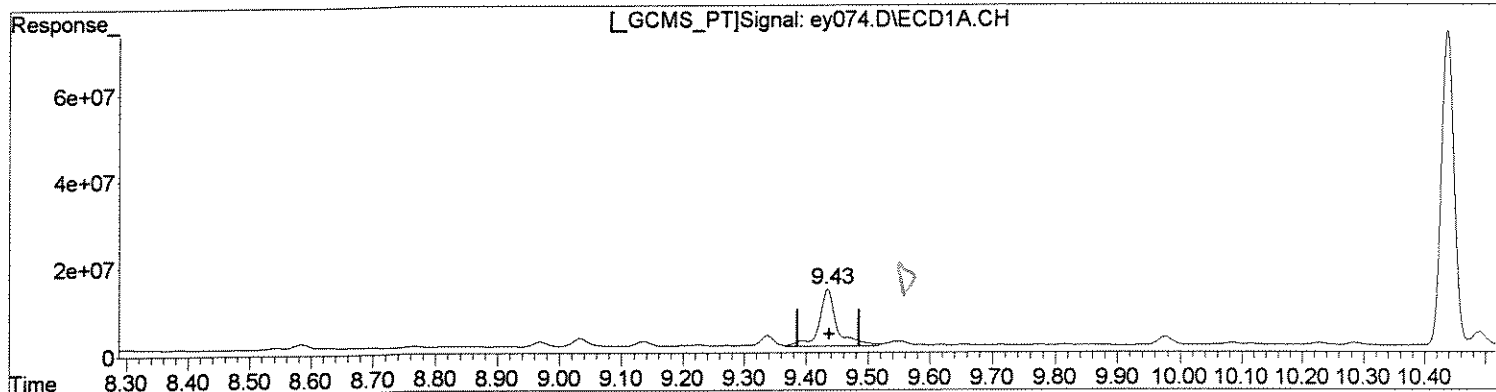
*Mg
7/21*

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey074.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:54 pm
Operator : M.PEDRO
Sample : 1111810 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 06:44:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
9.43min 13.106ug/l
response 264487281

(1) SURR1,Tetrac #2 (S)
9.32min 10.880ug/l
response 880403259

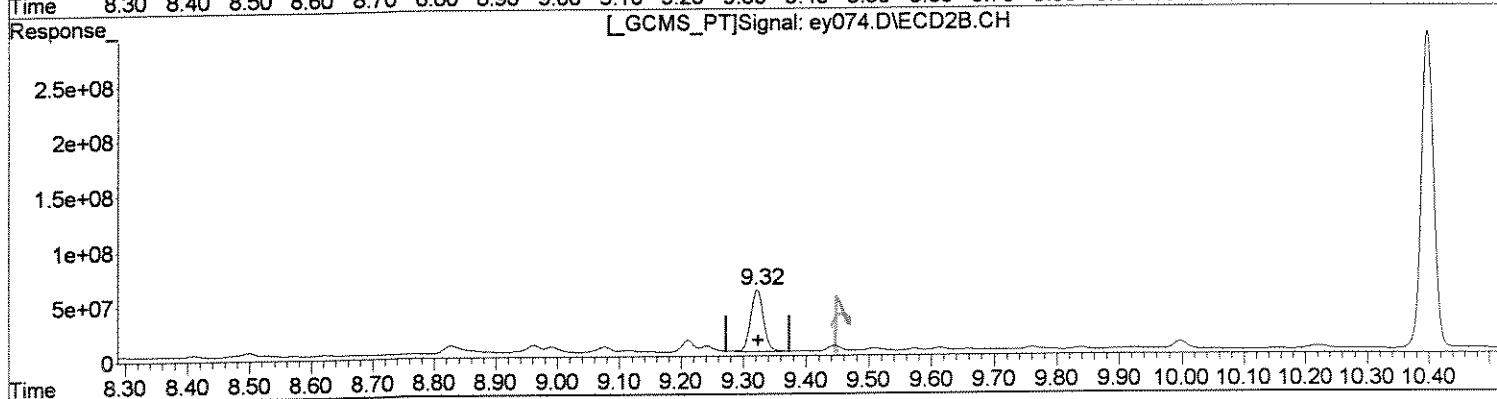
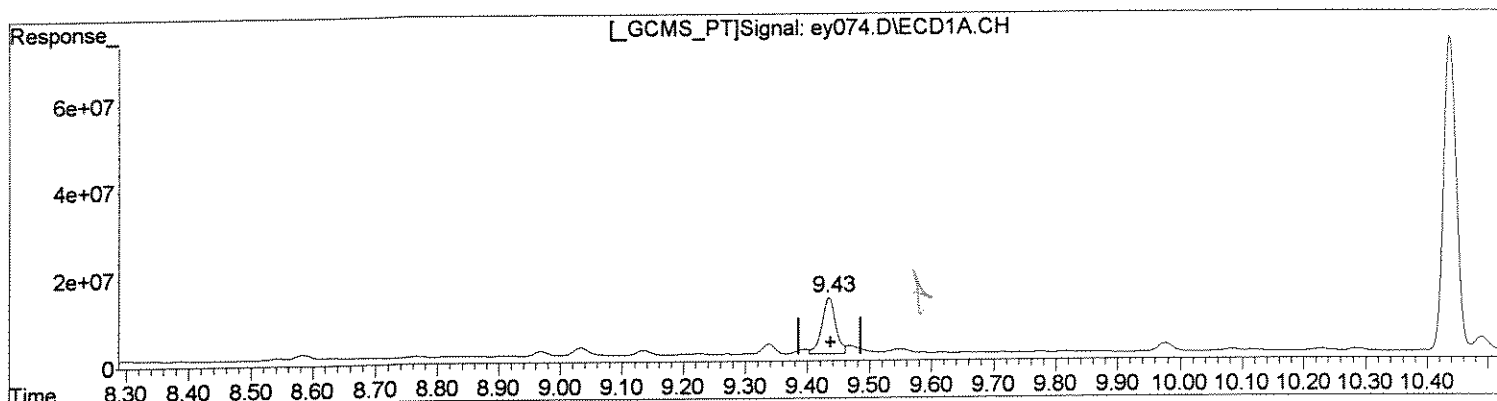
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey074.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:54 pm
Operator : M.PEDRO
Sample : 1111810 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 06:44:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
9.43min 9.815ug/l m
response 198065145

(1) SURR1,Tetrac #2 (S)
9.32min 9.702ug/l m
response 785076043

(+) = Expected Retention Time

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY074.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 2:54 pm
 Operator : M.PEDRO
 Sample : 11118101 10. *MS 7/21*
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 06:44:16 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

1) S SURR1,Tetrac	9.43	9.32	264.5E6	880.4E6	13.106	10.880
Spiked Amount	100.000	Range 30 - 150	Recovery =		13.11%#	10.88%#
25) S SURR2,Decachloro	17.61	17.86	155.5E6	526.4E6	8.901	9.558
Spiked Amount	100.000	Range 30 - 150	Recovery =		8.90%#	9.56%#

Target Compounds

2) TC HEXACHLOROBENZEN	10.12	10.15	9365514	43475320	0.319	0.358
3) tc alpha-BHC	10.44	10.40	1059.2E6	4115.4E6	34.260	34.678
4) tcm gamma-BHC (L	0.00	10.97	0	274.2E6	N.D.	2.610 #
8) tc delta-BHC	11.42	11.59	899.8E6	3011.0E6	33.084	29.165
9) tc Heptachlor E	13.08	0.00	23752765	0	1.044	N.D. #
10) tc alpha-Endosu	0.00	13.51	0	23621624	N.D.	0.333 #
12) tc alpha-Chlord	13.45	13.43	2277729	40191776	0.106	0.517 #
13) tc 4,4'-DDE	13.58	0.00	7292843	0	0.335	N.D. #
15) tcm Endrin	14.40	0.00	13944414	0	0.673	N.D. #
16) tc KEPONE	0.00	14.54	0	77559302	N.D.	3.373 #
17) tc beta-Endosul	0.00	14.67	0	40332201	N.D.	0.628 #
18) tc 4,4'-DDD	14.48	0.00	16890985	0	0.939	N.D. #
19) tcm 4,4'-DDT	0.00	14.96	0	18588268	N.D.	0.284 #
20) tc Endrin Aldeh	0.00	15.15	0	16754328	N.D.	0.342 #
26) L8C Toxaphene	0.00	14.76	0	11042960	N.D.	5.707 #
28) L8C Toxaphene {3}	15.51	15.15	3577262	16754328	5.315	8.962 #
29) L8C Toxaphene {4}	0.00	16.45	0	14325622	N.D.	7.438 #
30) L8C Toxaphene {5}	16.56	16.69	11352360	20445085	17.055	9.061 #
Sum Toxaphene			14929622	62567995	22.370	31.169
Average Toxaphene					11.185	7.792
31) L9C Chlordane	11.60	0.00	2346.9E6	0	2943.667	N.D. #
Sum Chlordane			2346.9E6	0	2943.667	N.D.
Average Chlordane					2943.667	0.000

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY074.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 2:54 pm
 Operator : M.PEDRO
 Sample : 1111810 10.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 06:44:16 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

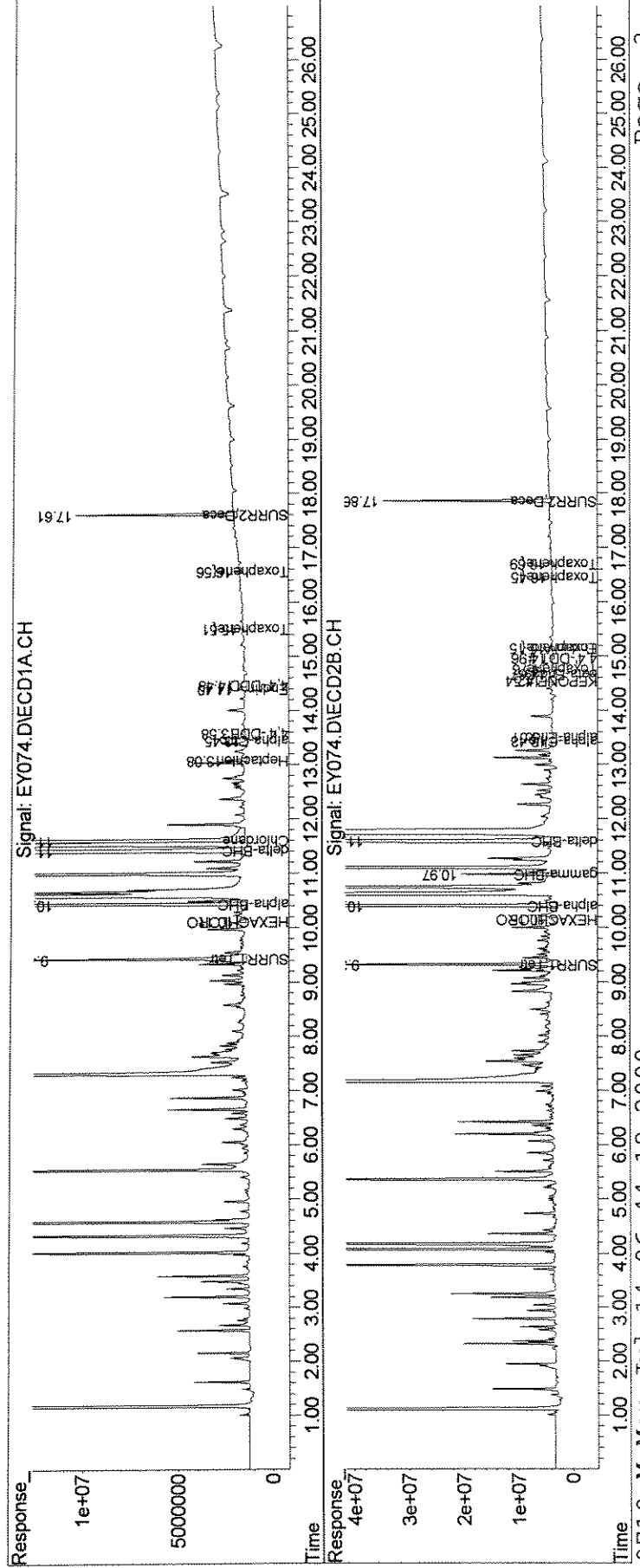
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\071008\
Data File : EY074.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:54 pm
Operator : M.PEDRO
Sample : 1111810 10.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 06:44:16 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : EB062608GW3

Date Sampled : 06/26/08 14:00 Order #: 1112812 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.047 U	UG/L
BETA-BHC	0.047	0.047 U	UG/L
GAMMA-BHC	0.047	0.047 U	UG/L
DELTA-BHC	0.047	0.047 U	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.047 U	UG/L
HEXACHLORO BENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	39 *	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	73	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX926.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:47 pm
 Operator : M.PEDRO
 Sample : 1112812 1.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:07:05 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S SURR1,Tetrac	9.27	9.04	1378.4E6	4303.8E6	73.189	70.535
Spiked Amount	100.000	Range	30 - 150	Recovery =	73.19%	70.53%
25) S SURR2,Decachloro	17.39	17.46	663.4E6	1594.6E6	38.837	36.531
Spiked Amount	100.000	Range	30 - 150	Recovery =	38.84%	36.53%

Target Compounds

2) TC HEXACHLOROBENZEN	9.97	9.87	6383860	55028275	0.235	0.625 #
3) tc alpha-BHC	10.26	10.11	10523118	44593779	0.350	0.482 #
4) tcm gamma-BHC (L	10.78	0.00	15829809	0	0.576	N.D. #
5) tcm Heptachlor	11.52	0.00	25825594	0	0.960	N.D. #
7) tc beta-BHC	0.00	10.82	0	16702903	N.D.	0.468 #
8) tc delta-BHC	11.22	0.00	31632387	0	1.144	N.D. #
9) tc Heptachlor E	12.90	12.61	60202981	48549694	2.613	0.723 #
11) tc gamma-Chlord	0.00	12.88	0	53110919	N.D.	0.762 #
13) tc 4,4'-DDE	13.37	13.35	144.1E6	54174289	6.412	0.831 #
14) tcm Dieldrin	13.85	13.56	16744009	23902809	0.719	0.366 #
15) tcm Endrin	0.00	13.98	0	11849690	N.D.	0.209 #
17) tc beta-Endosul	0.00	14.28	0	26315798	N.D.	0.480 #
19) tcm 4,4'-DDT	0.00	14.58	0	41051221	N.D.	0.749 #
20) tc Endrin Aldeh	15.10	14.77	11731200	61797989	0.794	1.536 #
24) tc Endrin Keton	0.00	15.93	0	5506832	N.D.	0.102 #
26) L8C Toxaphene	14.61	0.00	18173133	0	43.517	N.D. #
27) L8C Toxaphene {2}	0.00	14.70	0	8211972	N.D.	10.675 #
29) L8C Toxaphene {4}	0.00	16.08	0	5312464	N.D.	3.266 #
30) L8C Toxaphene {5}	16.34	16.31	4788329	2703014	7.092	1.552 #
Sum Toxaphene			22961462	16227450	50.609	15.493
Average Toxaphene					25.305	5.164
31) L9C Chlordane	0.00	11.11	0	21832555	N.D.	8.669 #
33) L9C Chlordane {3}	0.00	12.03	0	32047813	N.D.	11.543 #
Sum Chlordane			0	53880368	N.D.	20.212
Average Chlordane					0.000	10.106

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX926.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:47 pm
 Operator : M.PEDRO
 Sample : 1112812 1.
 Misc : 06/27/08 212 ensr r44650 8081
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:07:05 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

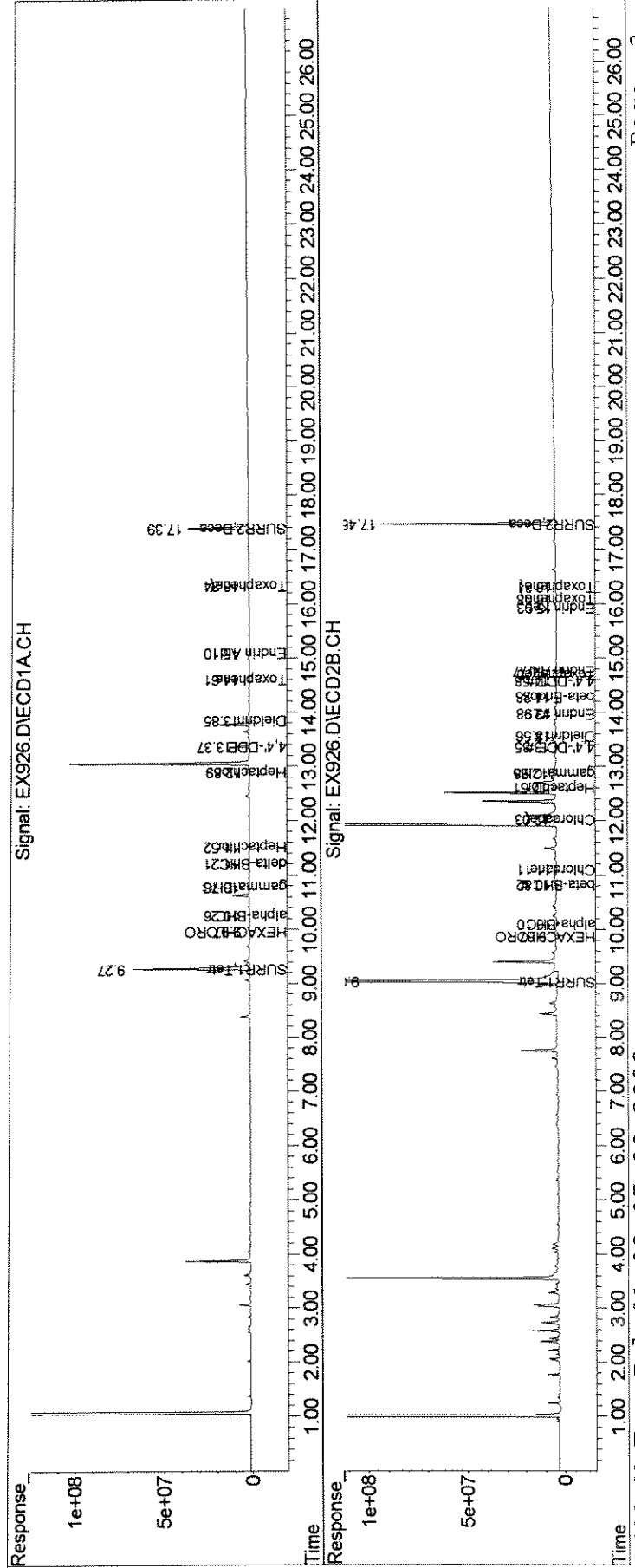
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX926.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:47 pm
Operator : M.PEDRO
Sample : 1112812 1.
Misc : 06/27/08 212 ensr r44650 8081
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:05 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01102

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-61B

Date Sampled : 06/26/08 11:00 Order #: 1112871 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.049	0.049 U	UG/L
ALPHA-BHC	0.049	0.076	UG/L
BETA-BHC	0.049	0.049 U	UG/L
GAMMA-BHC	0.049	0.049 U	UG/L
DELTA-BHC	0.049	0.049 U	UG/L
ALPHA-CHLORDANE	0.049	0.049 U	UG/L
GAMMA-CHLORDANE	0.049	0.049 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.049	0.049 U	UG/L
4,4'-DDT	0.049	0.049 U	UG/L
DIELDRIN	0.097	0.097 U	UG/L
ALPHA-ENDOSULFAN	0.049	0.049 U	UG/L
BETA-ENDOSULFAN	0.097	0.097 U	UG/L
ENDOSULFAN SULFATE	0.097	0.097 U	UG/L
ENDRIN	0.049	0.049 U	UG/L
ENDRIN ALDEHYDE	0.097	0.097 U	UG/L
ENDRIN KETONE	0.097	0.097 U	UG/L
HEPTACHLOR	0.049	0.049 U	UG/L
HEPTACHLOR EPOXIDE	0.049	0.049 U	UG/L
HEXACHLOROBENZENE	0.049	0.049 U	UG/L
METHOXYCHLOR	0.49	0.49 U	UG/L
4,4'-TDE (DDD)	0.049	0.049 U	UG/L
TOXAPHENE	0.97	0.97 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	87	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	77	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex927.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:22 pm
 Operator : M.PEDRO
 Sample : 1112871 1.
 Misc : 06/27/08 206 ensr r44650 8081
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:17:21 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

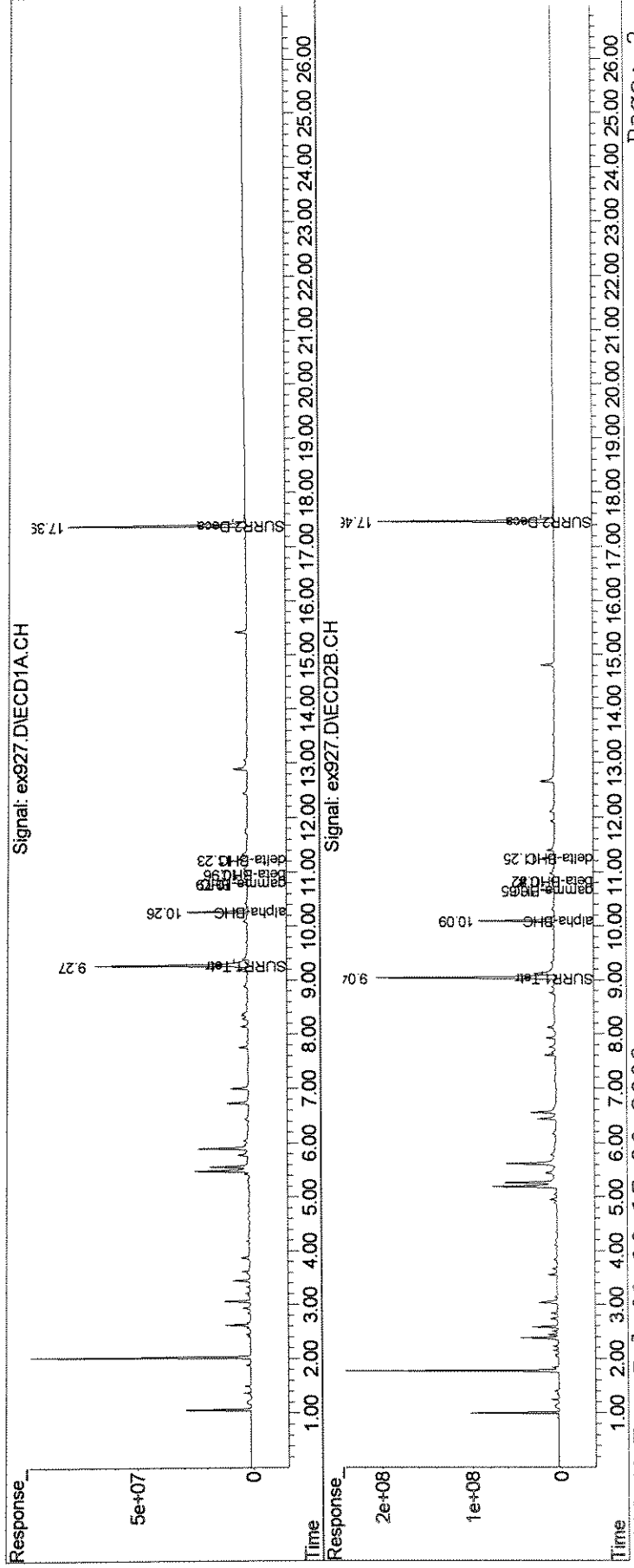
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1449.2E6	4077.5E6	76.950	66.827
Spiked Amount	100.000	Range	30 - 150	Recovery	= 76.95%	66.83%
25) S SURR2,Decachloro	17.39	17.46	1492.1E6	3490.3E6	87.361	79.961
Spiked Amount	100.000	Range	30 - 150	Recovery	= 87.36%	79.96%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	473.7E6	1396.1E6	15.774	15.099m
4) tcm gamma-BHC (L	10.79	10.65	85163408	243.4E6	3.098m	2.963m
7) tc beta-BHC	10.96	10.82	35263384	64695537	3.054m	1.814m#
8) tc delta-BHC	11.23	11.25	104.5E6	231.5E6	3.780	2.786m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\063008\
 Data File : ex927.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:22 pm
 Operator : M.PEDRO
 Sample : 1112871 1.
 Misc : 06/27/08 206 ensr r44650 8081
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:17:21 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



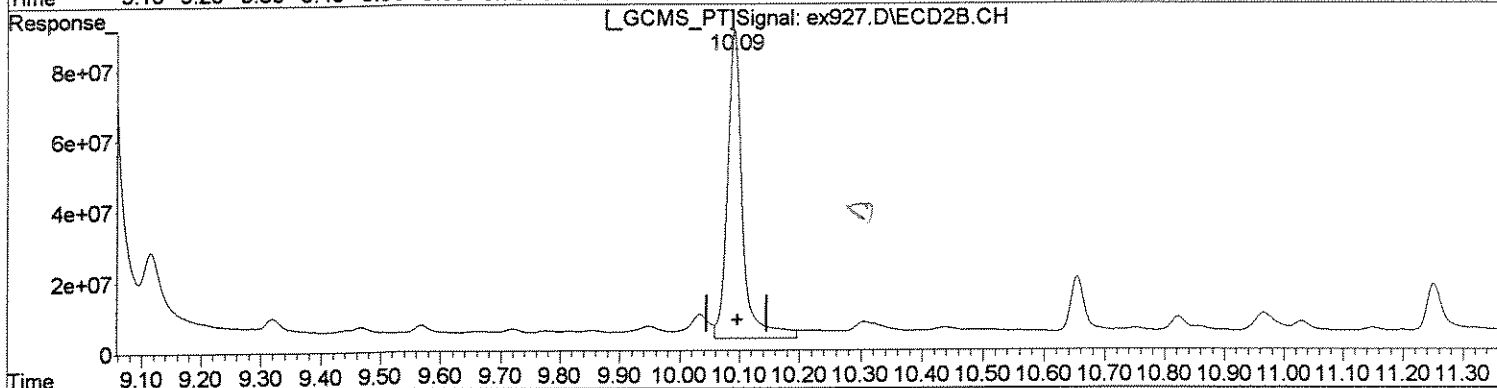
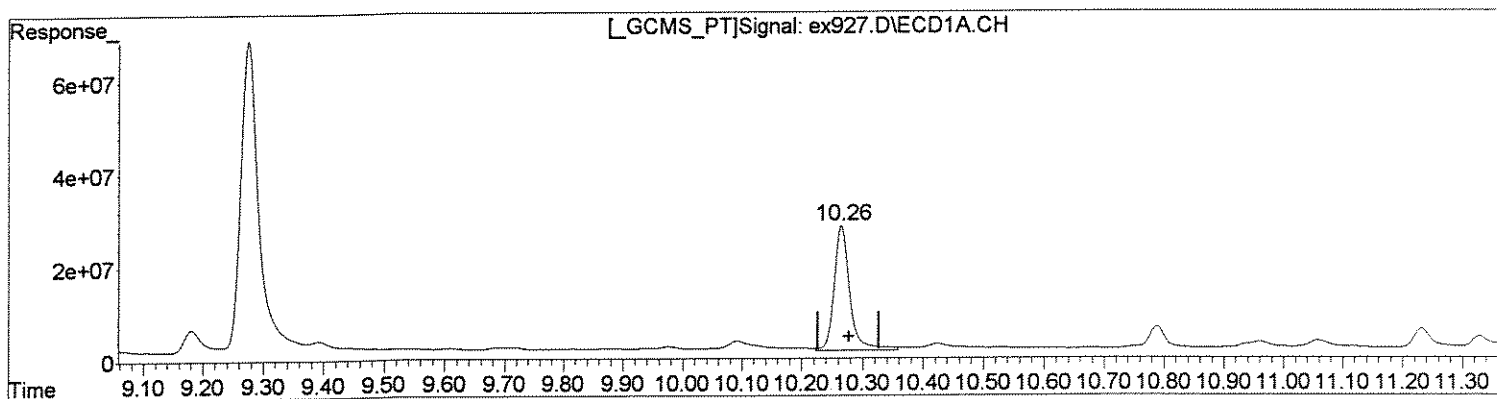
011285

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:22 pm
Operator : M.PEDRO
Sample : 1112871 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:12 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 15.774ug/l
response 473711806

(3) alpha-BHC #2 (tc)
10.09min 16.482ug/l
response 1524028929

Handwritten signature

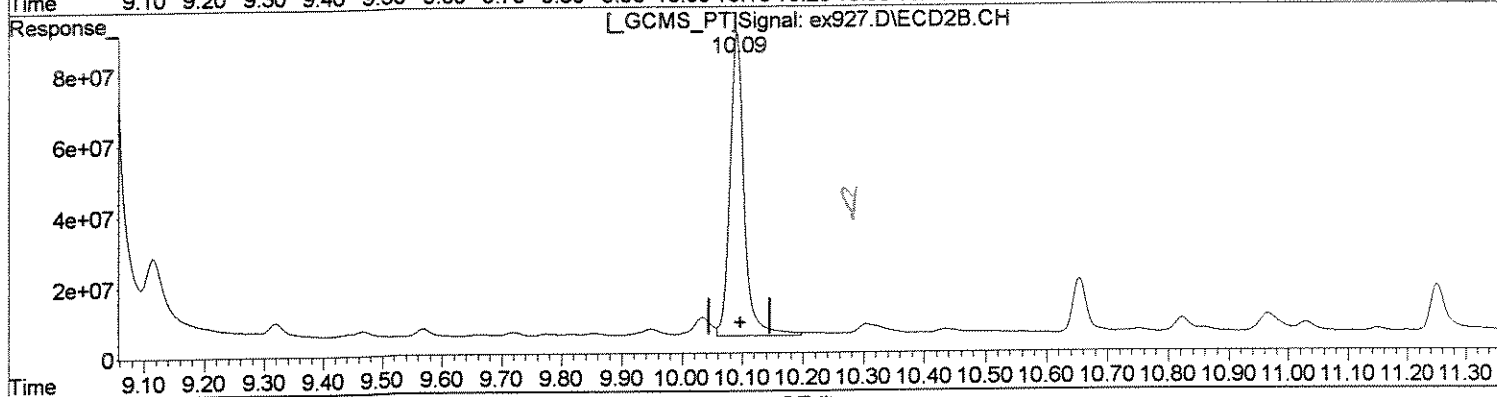
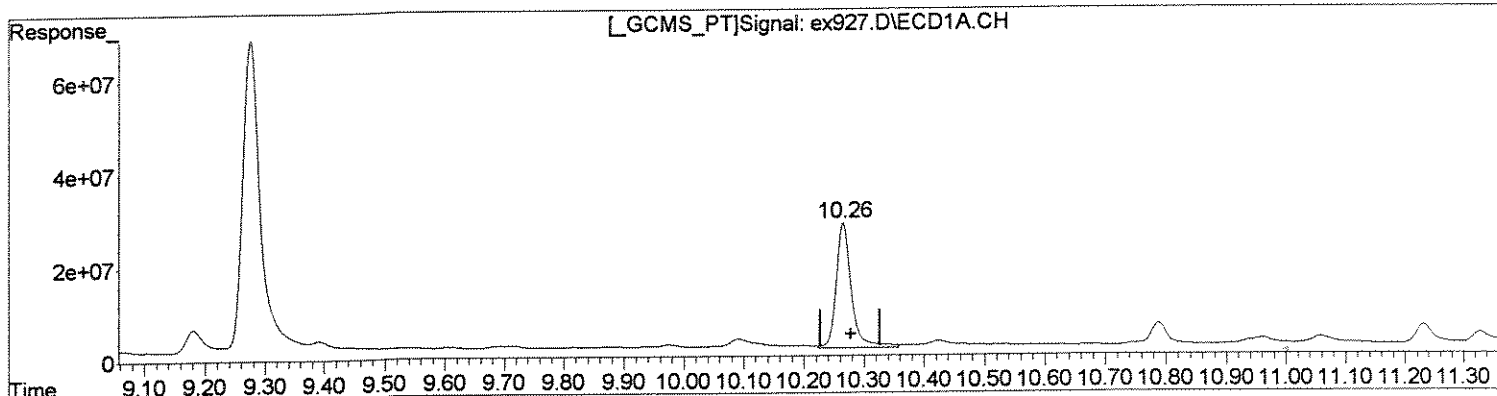
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:22 pm
Operator : M.PEDRO
Sample : 1112871 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:12 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 15.774ug/l
response 473711806

(3) alpha-BHC #2 (tc)
10.09min 15.099ug/l m
response 1396116971

Handwritten signatures and initials:
M.P.
7/1

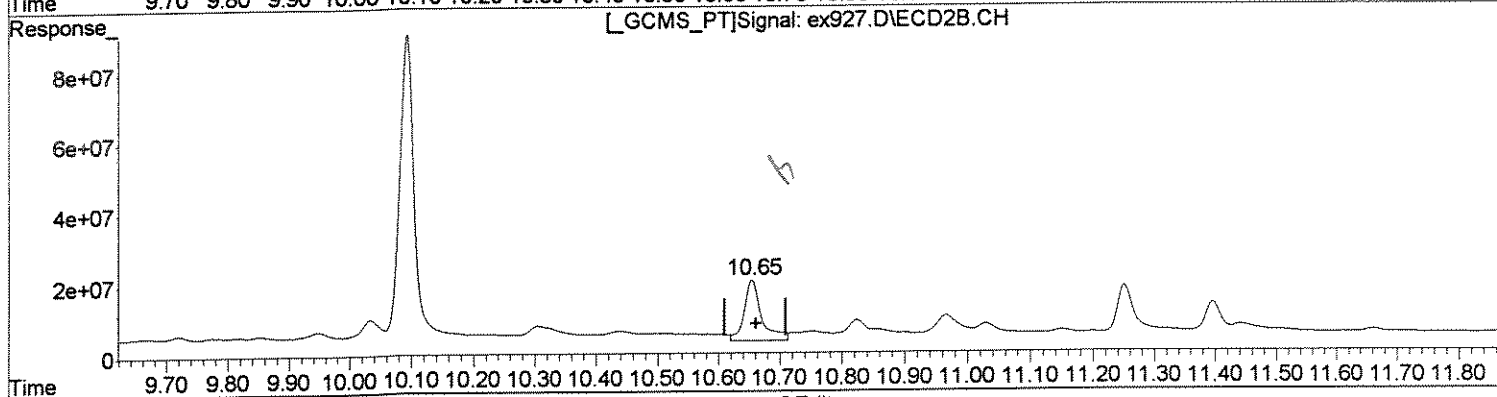
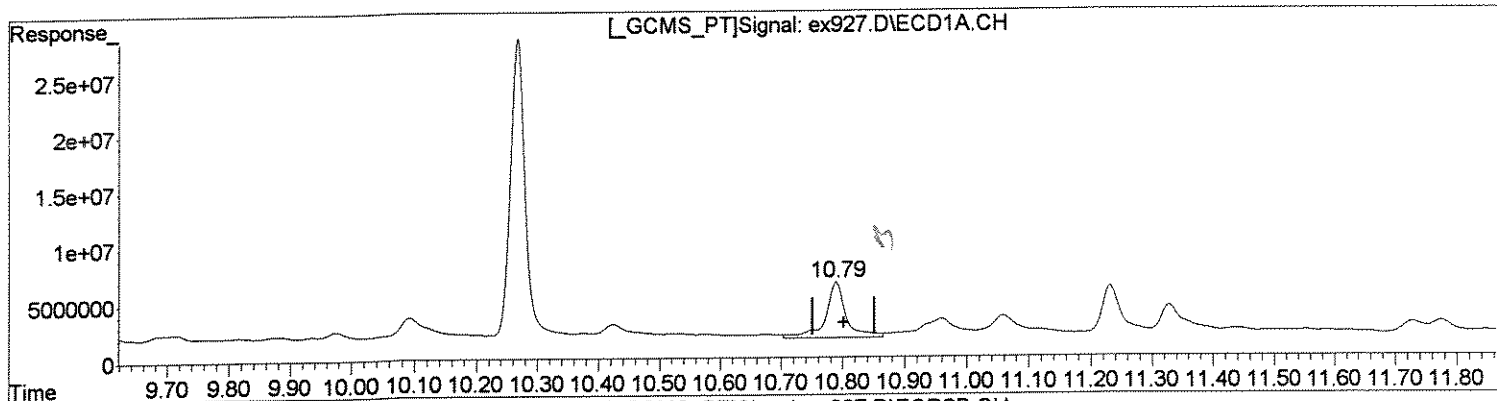
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:22 pm
Operator : M.PEDRO
Sample : 1112871 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:12 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)
10.79min 4.250ug/l
response 116838003

(4) gamma-BHC (L #2 (tcm)
10.65min 4.107ug/l
response 337424978

Handwritten signature

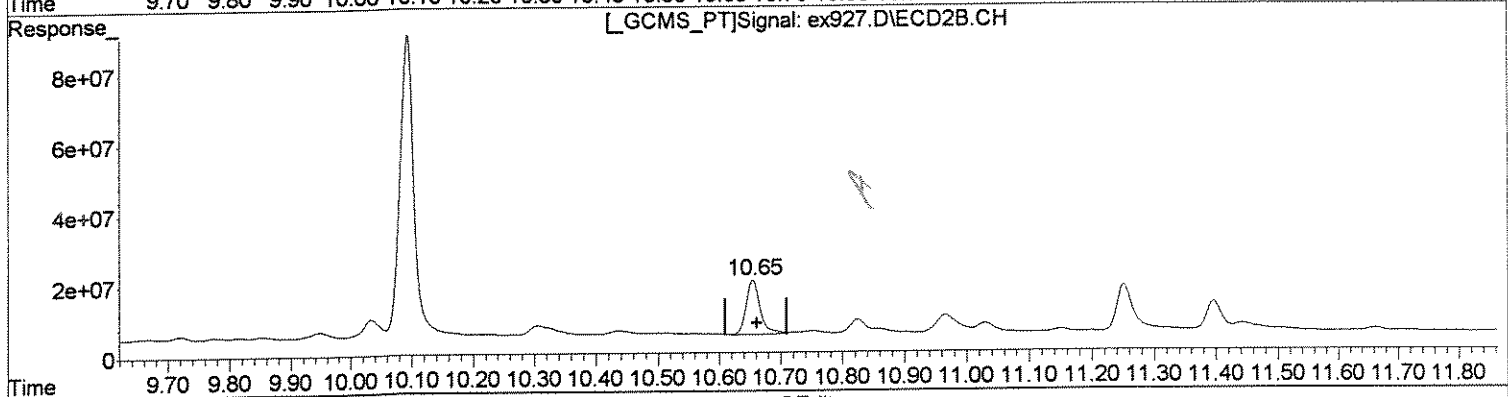
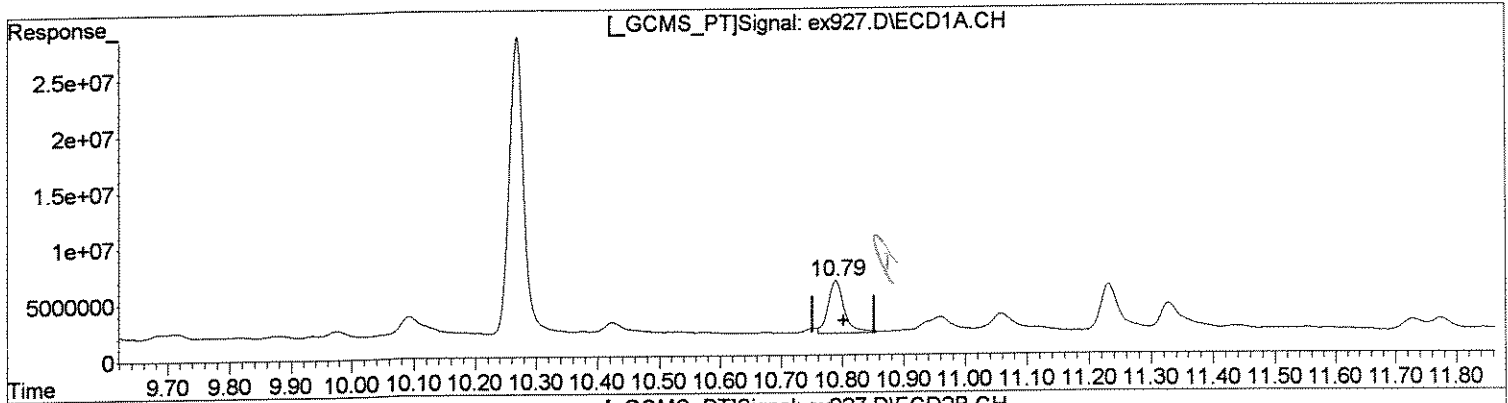
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:22 pm
Operator : M.PEDRO
Sample : 1112871 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:12 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)
10.79min 3.098ug/l m
response 85163408

(4) gamma-BHC (L #2 (tcm)
10.65min 2.963ug/l m
response 243398996

Handwritten signature

Handwritten signature

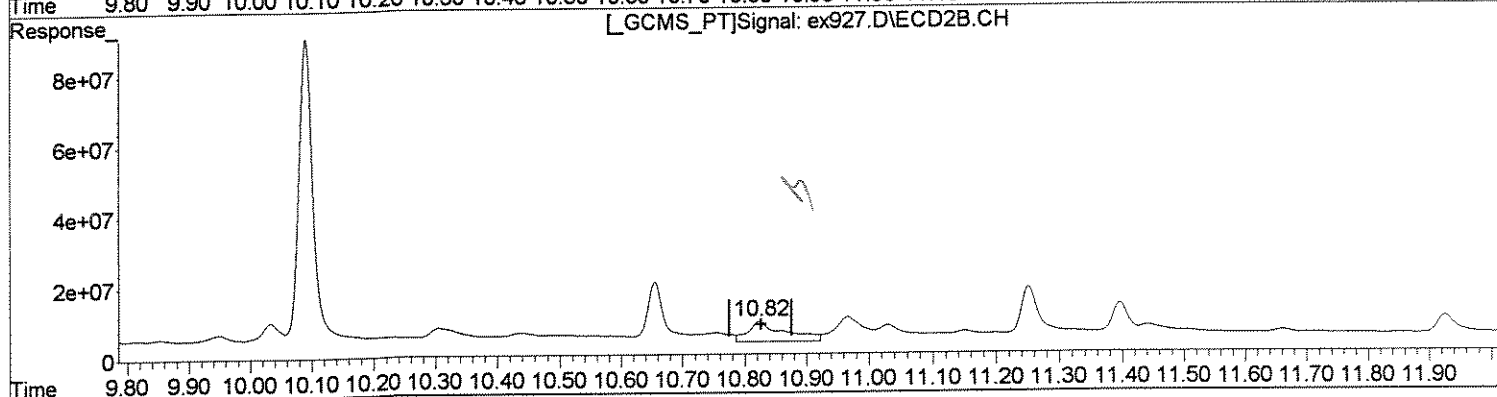
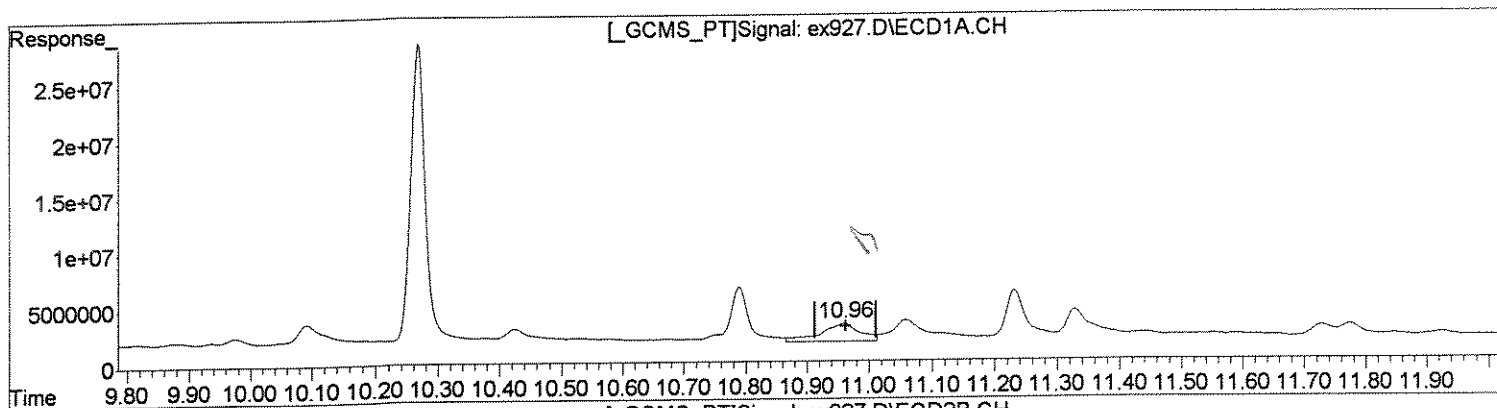
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:22 pm
Operator : M.PEDRO
Sample : 1112871 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:12 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
10.96min 6.161ug/l
response 71133039

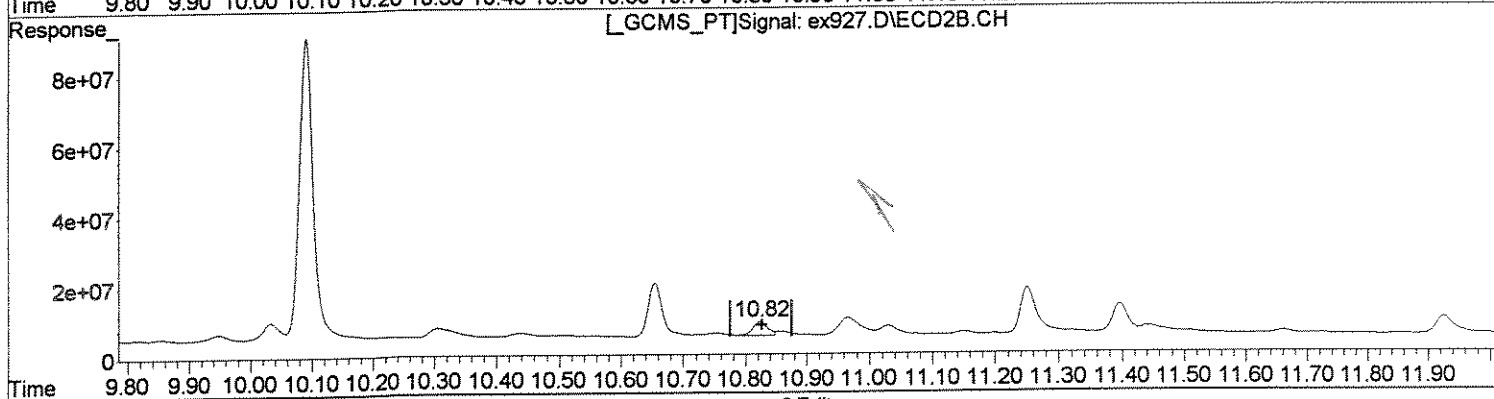
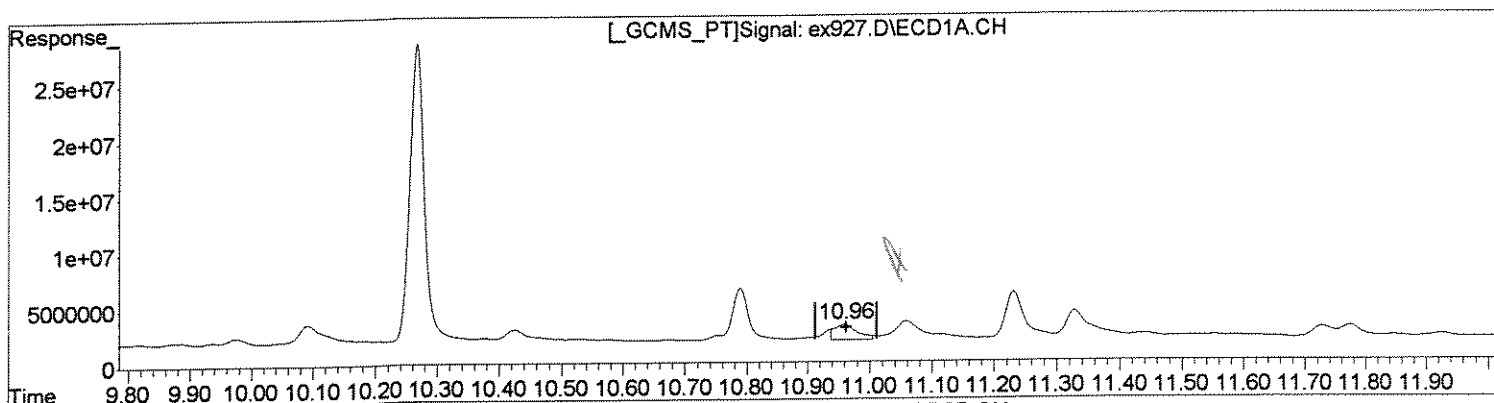
(7) beta-BHC #2 (tc)
10.82min 6.476ug/l
response 231010295

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:22 pm
Operator : M.PEDRO
Sample : 1112871 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:12 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
10.96min 3.054ug/l m
response 35263384

(7) beta-BHC #2 (tc)
10.82min 1.814ug/l m
response 64695537

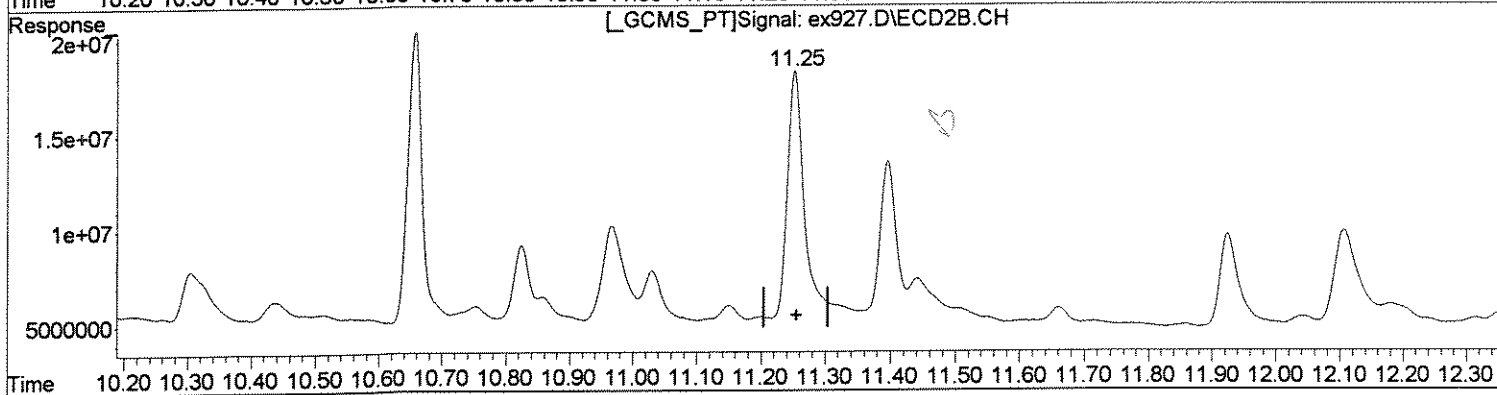
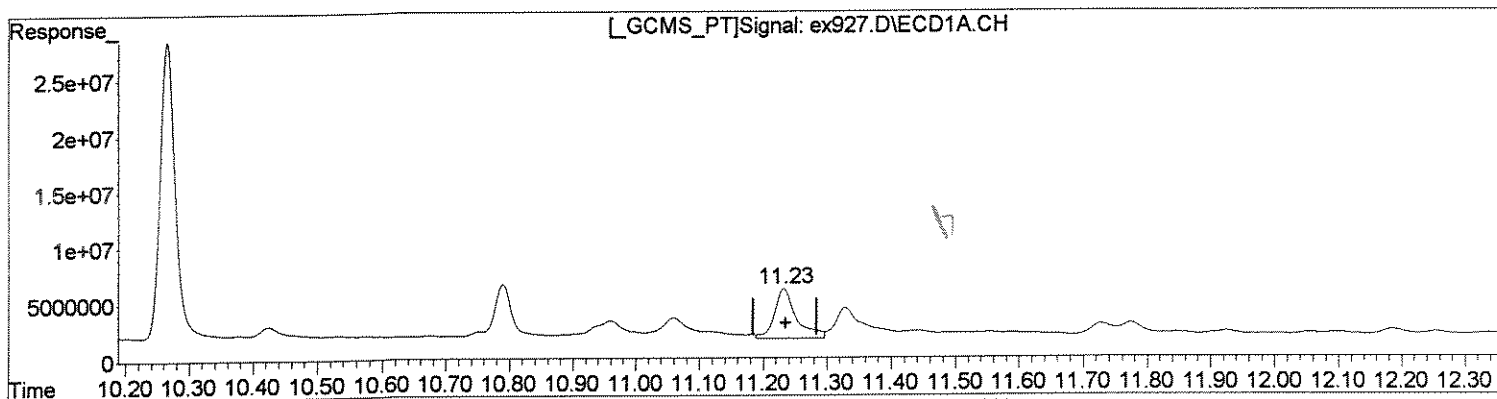
Handwritten notes:
10/7/08
M.D.
11/

Quantitation Report (Qedit)

Data Path : J:\ACQUATA\6890D\DATA\063008\
Data File : ex927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:22 pm
Operator : M.PEDRO
Sample : 1112871 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
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Quant Time: Jul 01 08:07:12 2008
Quant Method : J:\ACQUATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.23min 3.780ug/l
response 104537629

(8) delta-BHC #2 (tc)
11.25min 4.726ug/l
response 392705195

Handwritten signature

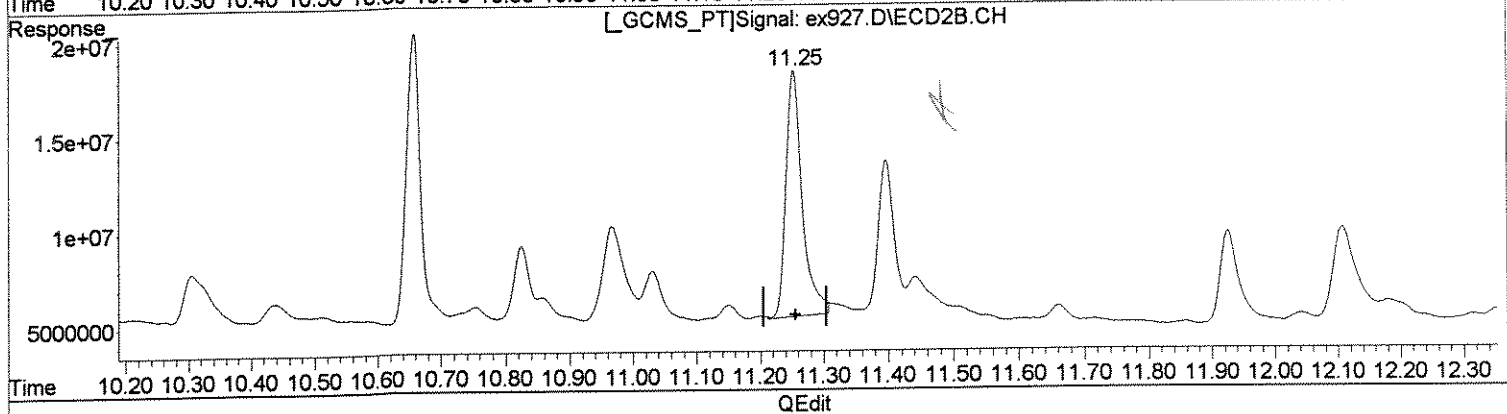
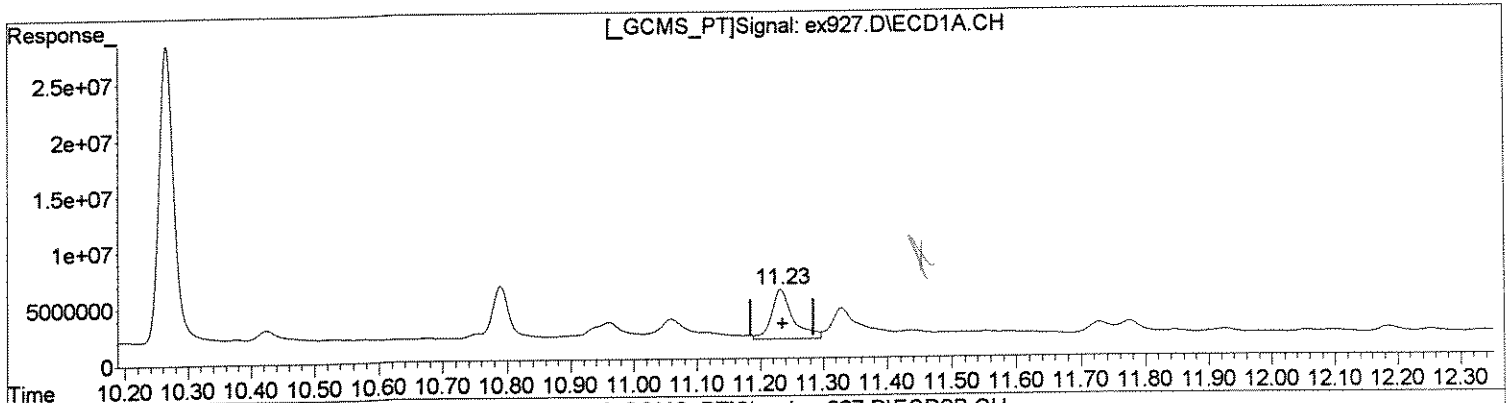
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:22 pm
Operator : M.PEDRO
Sample : 1112871 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:12 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.23min 3.780ug/l
response 104537629

(8) delta-BHC #2 (tc)
11.25min 2.786ug/l m
response 231516718

Handwritten signatures and initials:
Mw
7/1

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX927.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:22 pm
 Operator : M.PEDRO
 Sample : 1112871 1.
 Misc : 06/27/08 206 ensr r44650 8081
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:07:12 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

System Monitoring Compounds						
1) S SURR1, Tetrac	9.27	9.04	1449.2E6	4077.5E6	76.950	66.827
Spiked Amount	100.000	Range 30 - 150	Recovery =		76.95%	66.83%
25) S SURR2, Decachloro	17.39	17.46	1492.1E6	3490.3E6	87.361	79.961
Spiked Amount	100.000	Range 30 - 150	Recovery =		87.36%	79.96%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	27703516	91349305	1.020	1.038
3) tc alpha-BHC	10.26	10.09	473.7E6	1524.0E6	15.774	16.482
4) tcm gamma-BHC (L	10.79	10.65	116.8E6	337.4E6	4.250	4.107
7) tc beta-BHC	10.96	10.82	71133039	231.0E6	6.161	6.476
8) tc delta-BHC	11.23	11.25	104.5E6	392.7E6	3.780	4.726 #
9) tc Heptachlor E	12.89	12.61	189.7E6	37189586	8.234	0.553 #
10) tc alpha-Endosu	13.50	0.00	6757439	0	0.328	N.D. #
11) tc gamma-Chlord	0.00	12.88	0	95334333	N.D.	1.367 #
13) tc 4,4'-DDE	13.37	13.35	16443875	42282851	0.731	0.649
14) tcm Dieldrin	0.00	13.51	0	100.7E6	N.D.	1.544 #
15) tcm Endrin	0.00	13.98	0	26912283	N.D.	0.474 #
19) tcm 4,4'-DDT	0.00	14.58	0	45958207	N.D.	0.839 #
21) tc Endosulfan S	15.78	15.17	6143669	23928275	0.339	0.482 #
24) tc Endrin Keton	0.00	15.93	0	1441884	N.D.	0.027 #
26) L8C Toxaphene	14.61	14.43	13182601	27740709	31.567	16.931 #
27) L8C Toxaphene {2}	0.00	14.70	0	14368456	N.D.	18.677 #
28) L8C Toxaphene {3}	15.30	14.80	5722084	354.9E6	8.001	214.830 #
29) L8C Toxaphene {4}	0.00	16.08	0	3719791	N.D.	2.287 #
30) L8C Toxaphene {5}	16.34	0.00	9778479	0	14.483	N.D. #
Sum Toxaphene			28683164	400.7E6	54.052	252.726
Average Toxaphene					18.017	63.181
31) L9C Chlordane	11.44	0.00	19659320	0	25.691	N.D. #
33) L9C Chlordane {3}	0.00	12.04	0	51030162	N.D.	18.381 #
Sum Chlordane			19659320	51030162	25.691	18.381
Average Chlordane					25.691	18.381

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX927.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:22 pm
 Operator : M.PEDRO
 Sample : 1112871 1.
 Misc : 06/27/08 206 ensr r44650 8081
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:07:12 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

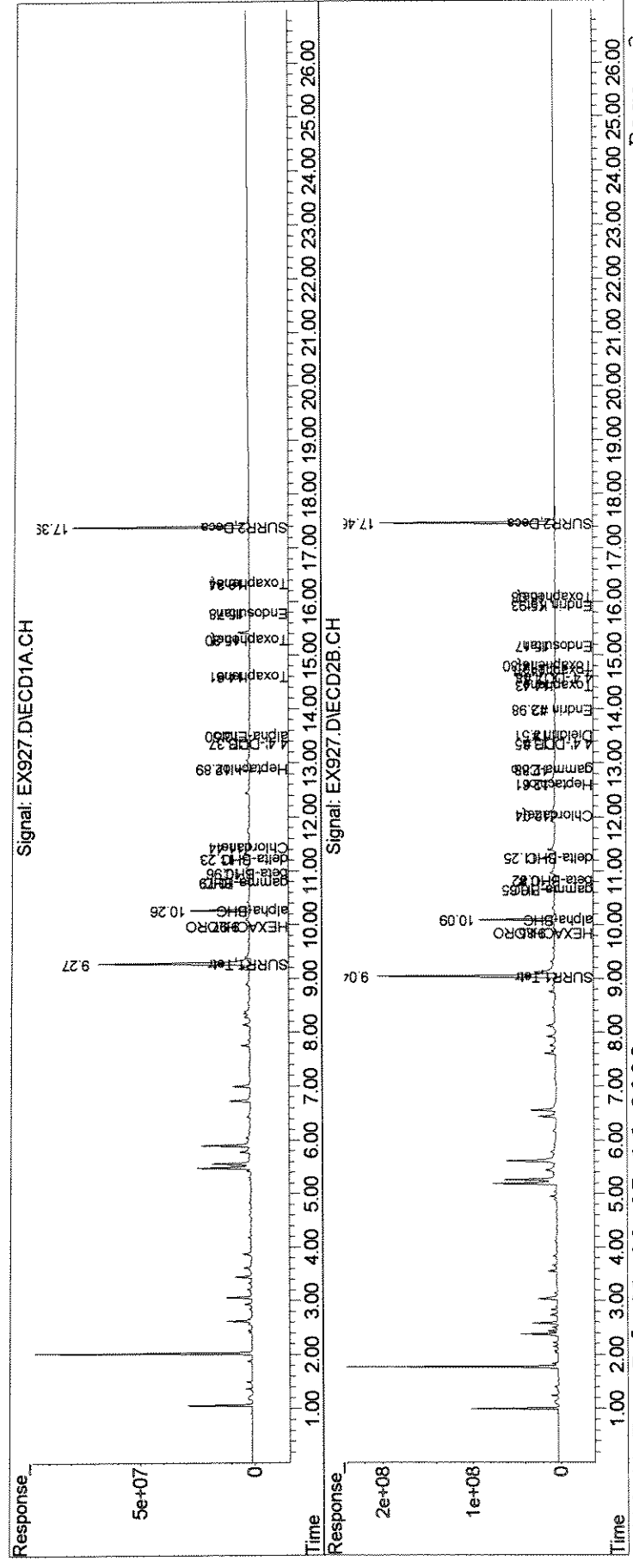
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:22 pm
Operator : M.PEDRO
Sample : 1112871 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:12 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-88BB

Date Sampled : 06/26/08 08:00 Order #: 1112872 Sample Matrix: WATER
Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.049	0.049 U	UG/L
ALPHA-BHC	0.049	0.16	UG/L
BETA-BHC	0.049	0.049 U	UG/L
GAMMA-BHC	0.049	0.049	UG/L
DELTA-BHC	0.049	0.049 U	UG/L
ALPHA-CHLORDANE	0.049	0.049 U	UG/L
GAMMA-CHLORDANE	0.049	0.049 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.049	0.049 U	UG/L
4,4'-DDT	0.049	0.049 U	UG/L
DIELDRIN	0.097	0.097 U	UG/L
ALPHA-ENDOSULFAN	0.049	0.049 U	UG/L
BETA-ENDOSULFAN	0.097	0.097 U	UG/L
ENDOSULFAN SULFATE	0.097	0.097 U	UG/L
ENDRIN	0.049	0.049 U	UG/L
ENDRIN ALDEHYDE	0.097	0.097 U	UG/L
ENDRIN KETONE	0.097	0.097 U	UG/L
HEPTACHLOR	0.049	0.049 U	UG/L
HEPTACHLOR EPOXIDE	0.049	0.049 U	UG/L
HEXACHLOROBENZENE	0.049	0.049 U	UG/L
METHOXYCHLOR	0.49	0.49 U	UG/L
4,4'-TDE (DDD)	0.049	0.049 U	UG/L
TOXAPHENE	0.97	0.97 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	82	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	77	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex928.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:58 pm
 Operator : M.PEDRO
 Sample : 1112872 1.
 Misc : 06/27/08 206 ensr r44650 8081
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:19:25 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

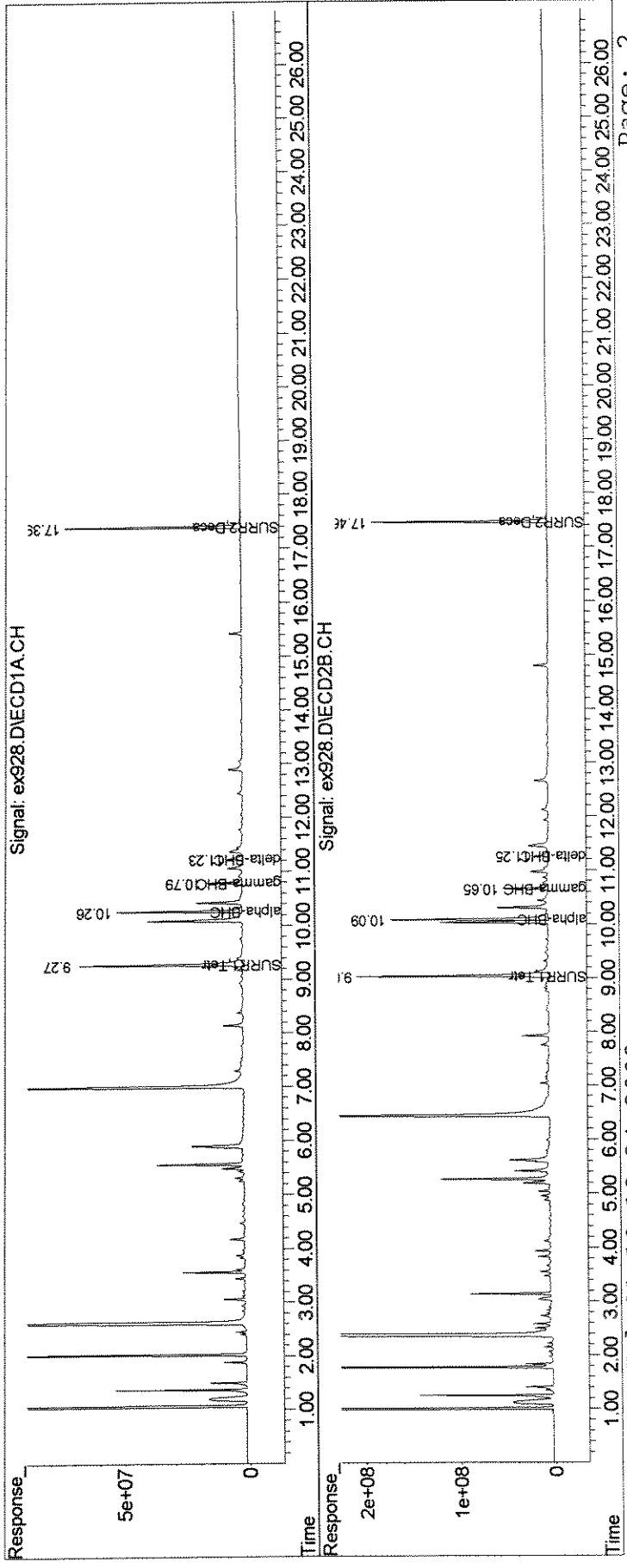
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	1449.0E6	4194.3E6	76.936	68.740
Spiked Amount	100.000	Range	30 - 150	Recovery	= 76.94%	68.74%
25) S SURR2,Decachloro	17.39	17.46	1398.2E6	3303.5E6	81.858	75.679
Spiked Amount	100.000	Range	30 - 150	Recovery	= 81.86%	75.68%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	881.6E6	3063.3E6	29.356m	33.128m
4) tcm gamma-BHC (L	10.79	10.65	276.8E6	740.1E6	10.070m	9.008m
8) tc delta-BHC	11.23	11.25	135.3E6	284.8E6	4.893m	3.428m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\063008\
 Data File : ex928.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:58 pm
 Operator : M.PEDRO
 Sample : 1112872 1.
 Misc : 06/27/08 206 ensr r44650 8081
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:19:25 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

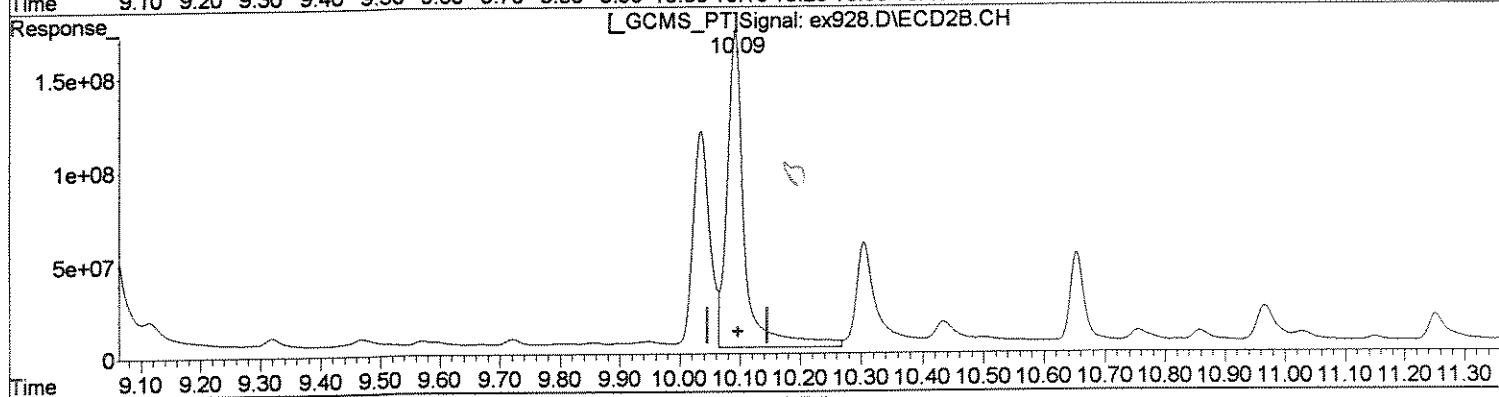
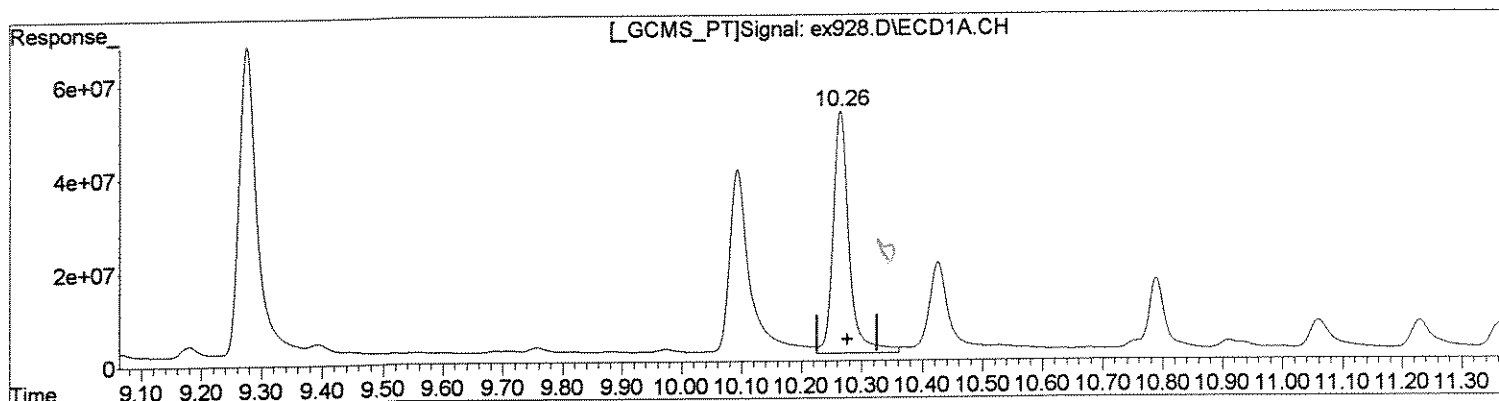


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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Quant Time: Jul 01 08:07:19 2008
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Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 31.855ug/l
response 956630941

(3) alpha-BHC #2 (tc)
10.09min 37.037ug/l
response 3424654551

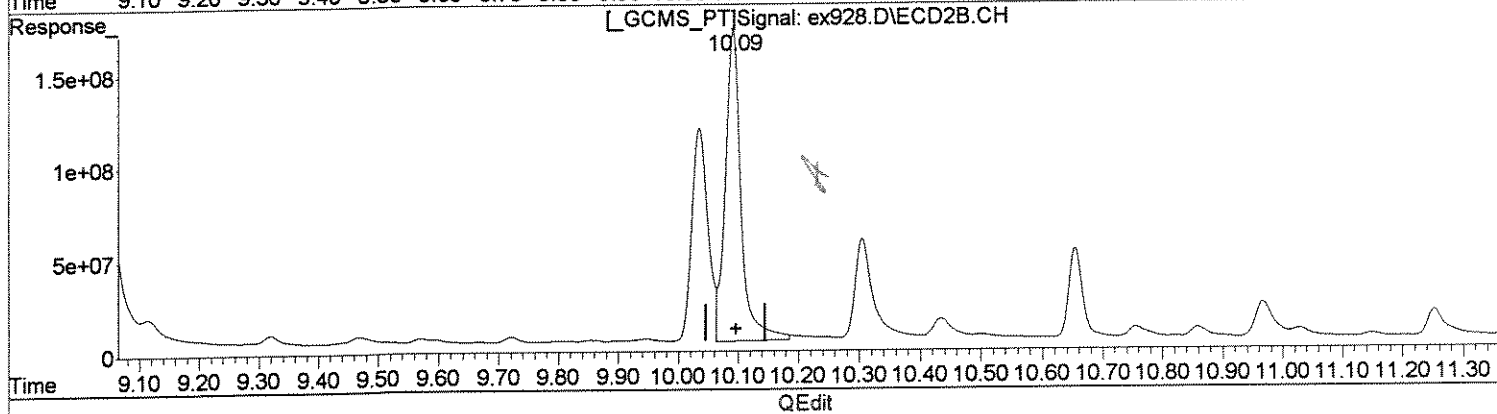
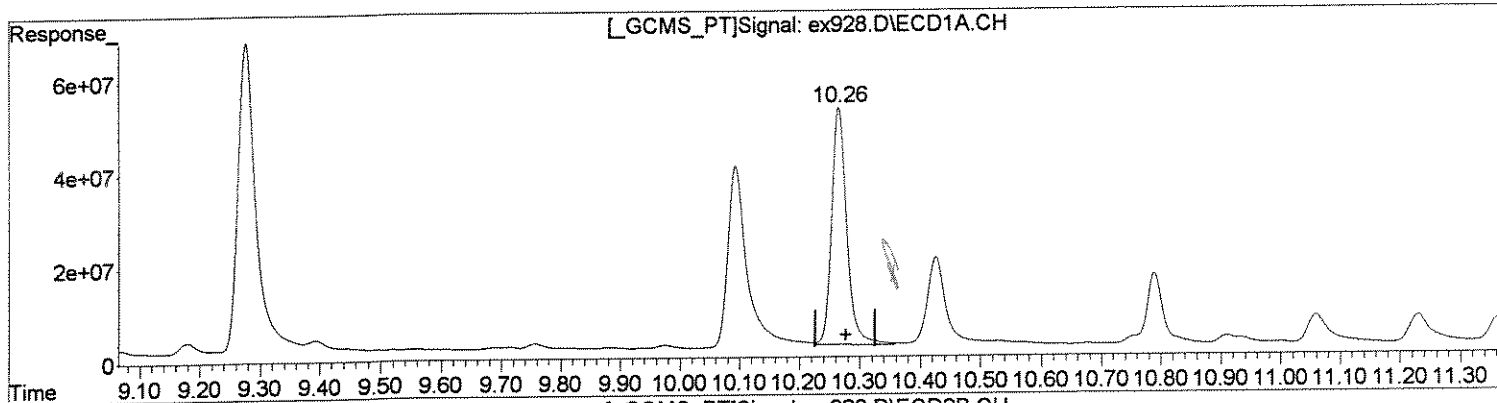
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex928.D
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ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 29.356ug/l m
response 881595542

(3) alpha-BHC #2 (tc)
10.09min 33.128ug/l m
response 3063266898

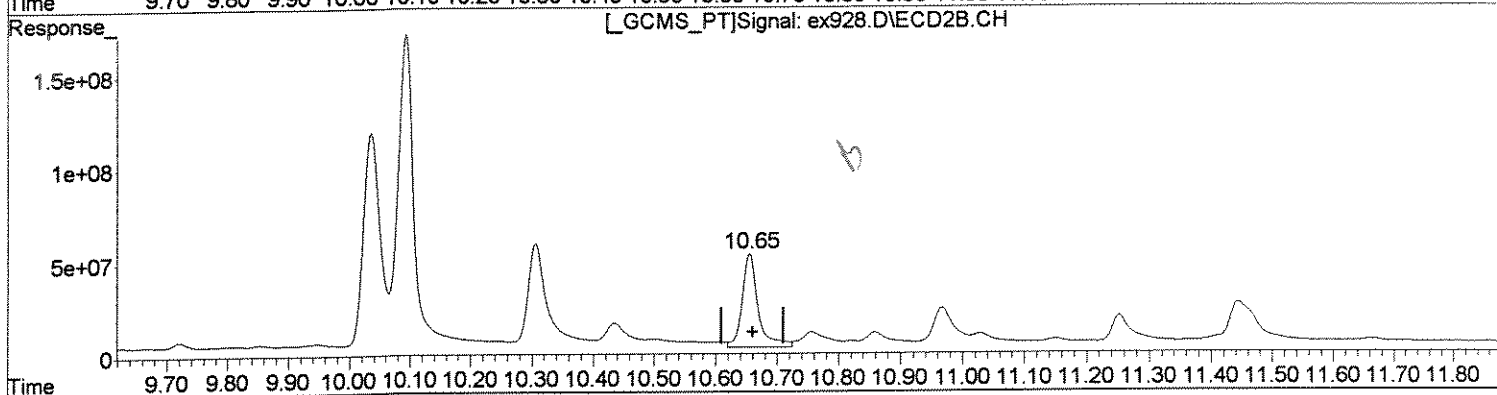
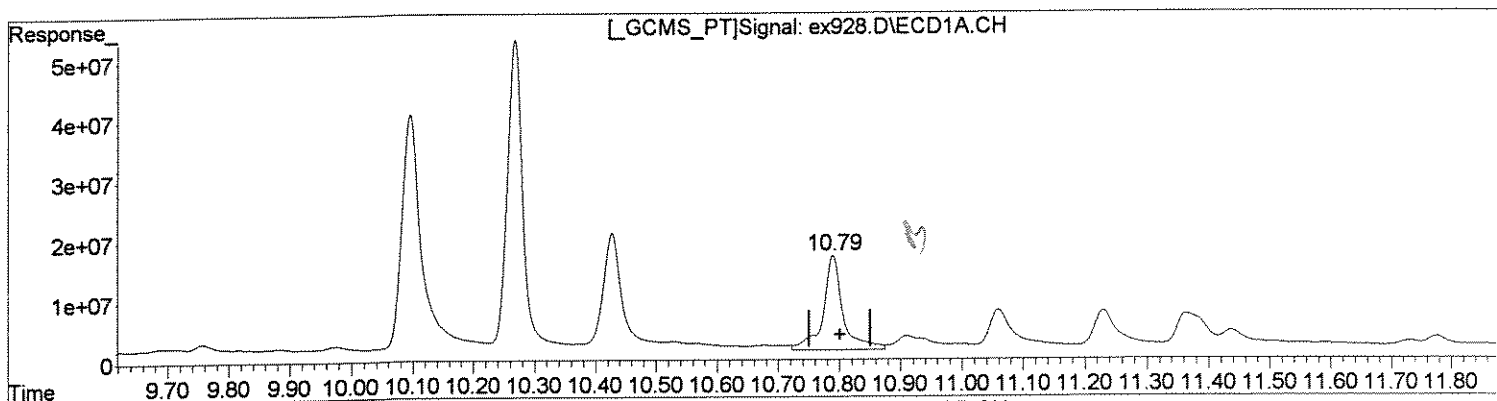
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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Operator : M.PEDRO
Sample : 1112872 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)
10.79min 12.824ug/l
response 352517106

(4) gamma-BHC (L #2 (tcm)
10.65min 10.945ug/l
response 899234925

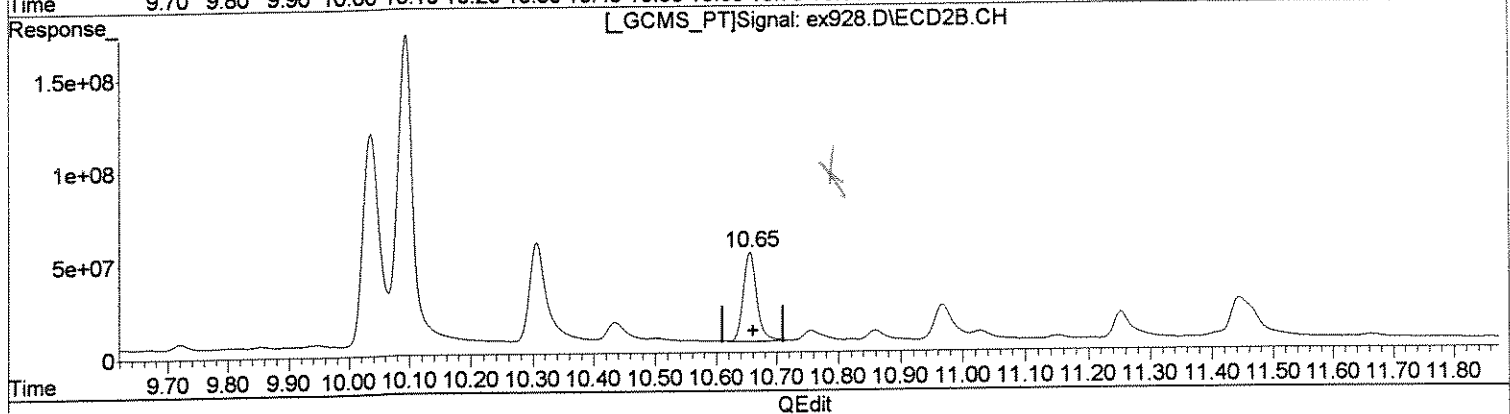
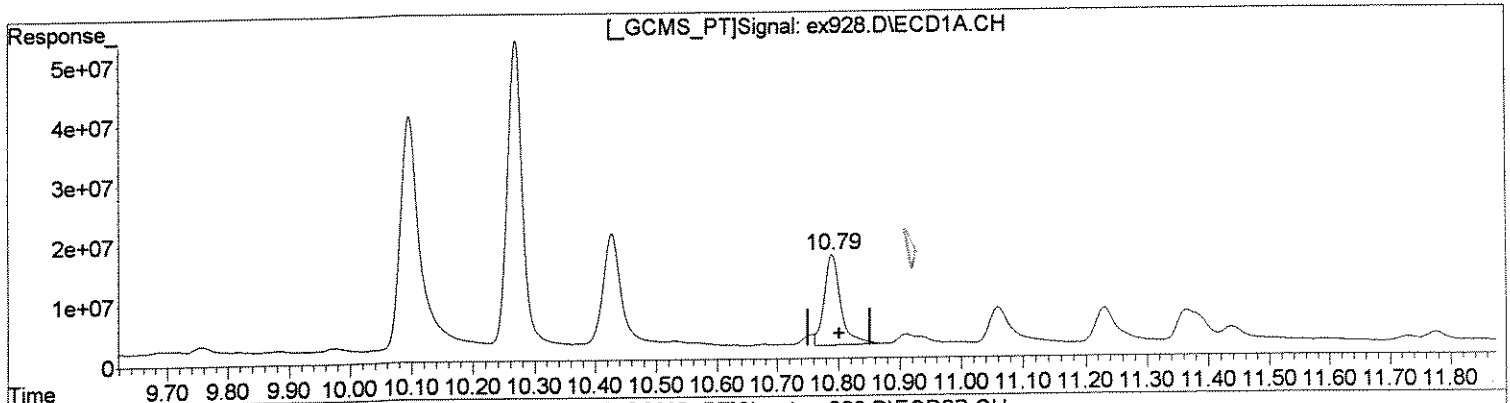
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:58 pm
Operator : M.PEDRO
Sample : 1112872 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm))
10.79min 10.070ug/l m
response 276804690

(4) gamma-BHC (L #2 (tcm))
10.65min 9.008ug/l m
response 740104390

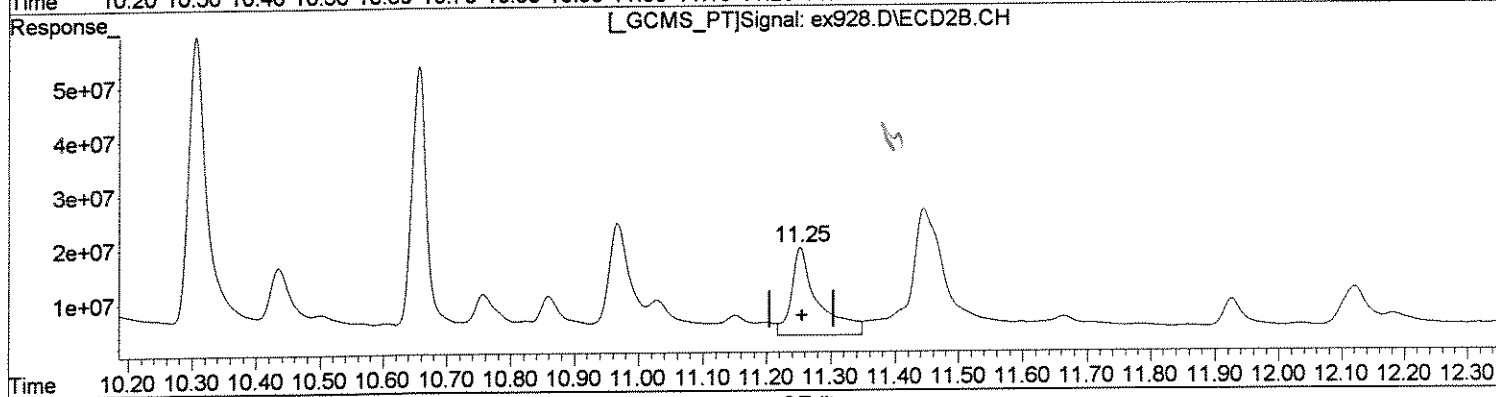
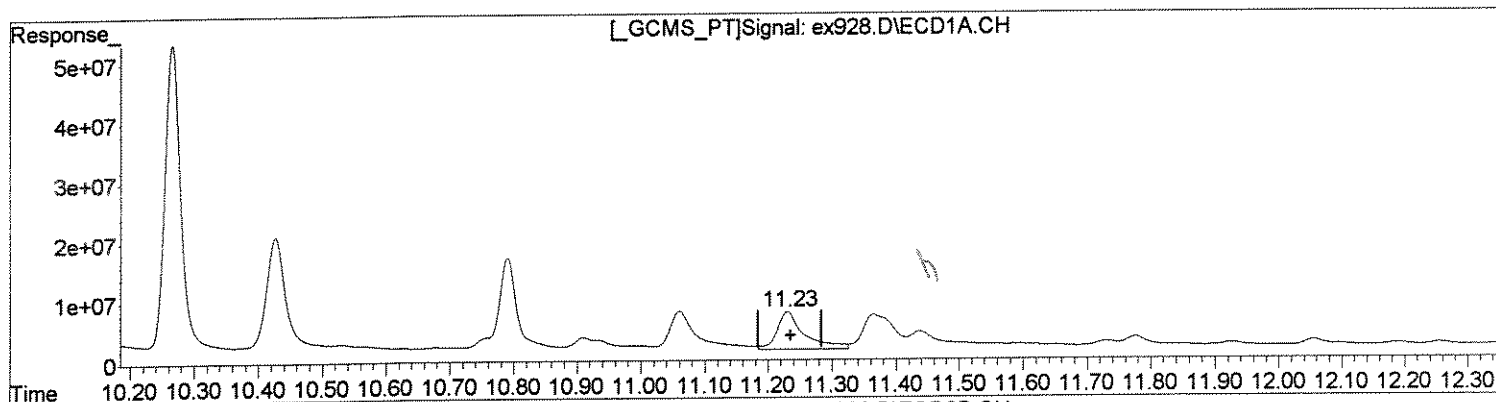
MW
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:58 pm
Operator : M.PEDRO
Sample : 1112872 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.23min 6.819ug/l
response 188596903

(8) delta-BHC #2 (tc)
11.25min 5.568ug/l
response 462678790

Handwritten signature

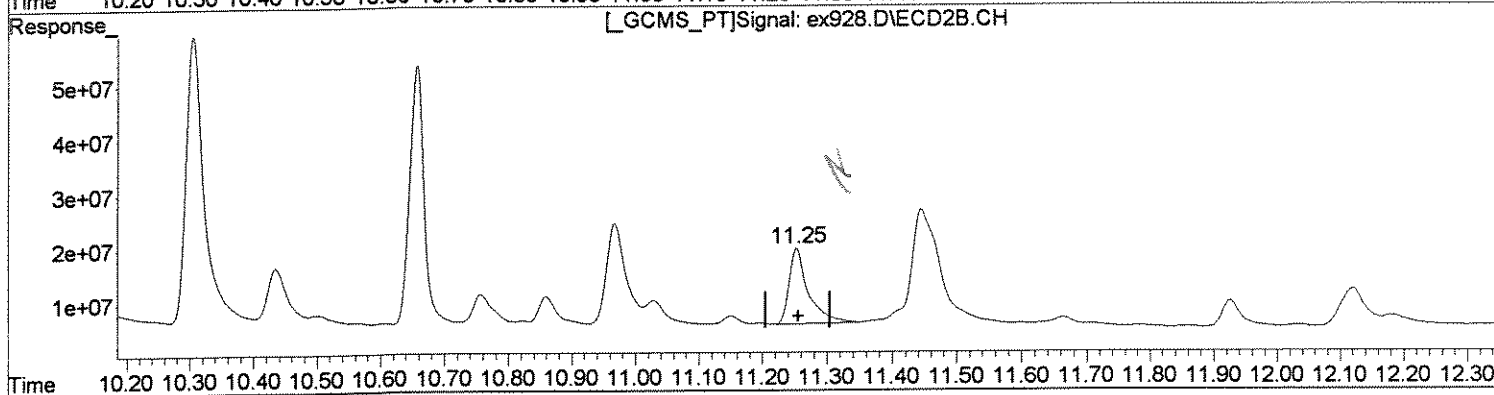
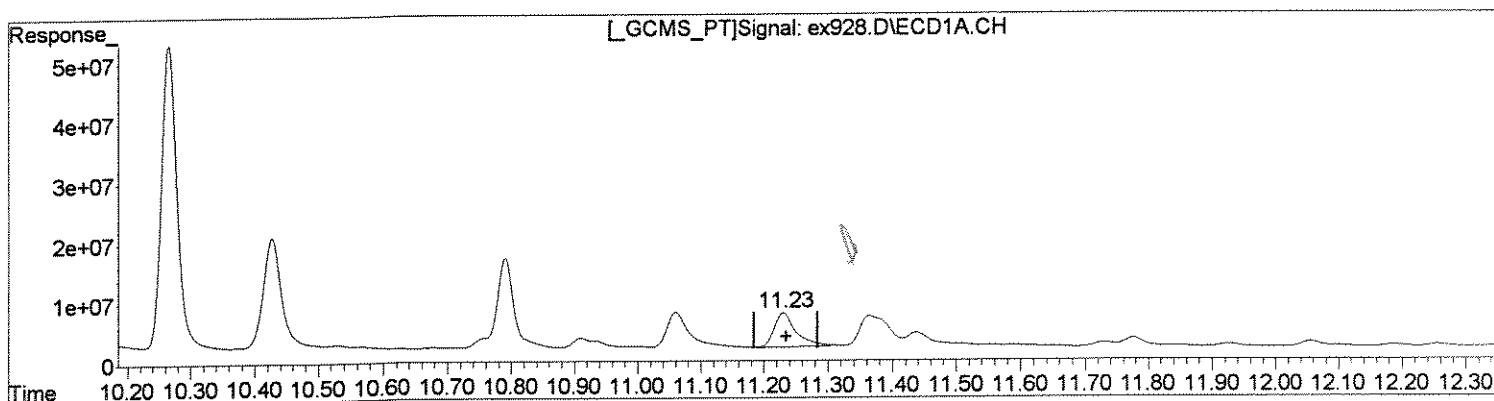
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:58 pm
Operator : M.PEDRO
Sample : 1112872 1.
Misc : 06/27/08 206 ensr r44650 8081
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.23min 4.893ug/l m
response 135310154

(8) delta-BHC #2 (tc)
11.25min 3.428ug/l m
response 284823033

MW/ *MW/*
7/1

(+) = Expected Retention Time

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX928.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:58 pm
 Operator : M.PEDRO
 Sample : 1112872 1.
 Misc : 06/27/08 206 ensr r44650 8081
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:07:19 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	1449.0E6	4194.3E6	76.936	68.740
Spiked Amount	100.000	Range 30 - 150	Recovery =		76.94%	68.74%
25) S SURR2,Decachloro	17.39	17.46	1398.2E6	3303.5E6	81.858	75.679
Spiked Amount	100.000	Range 30 - 150	Recovery =		81.86%	75.68%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	42990835	76725398	1.583	0.872 #
3) tc alpha-BHC	10.26	10.09	956.6E6	3424.7E6	31.855	37.037
4) tcm gamma-BHC (L	10.79	10.65	352.5E6	899.2E6	12.824	10.945
6) tcm Aldrin	0.00	11.78	0	67651107	N.D.	0.903 #
7) tc beta-BHC	0.00	10.82	0	42322719	N.D.	1.186 #
8) tc delta-BHC	11.23	11.25	188.6E6	462.7E6	6.819	5.568
9) tc Heptachlor E	12.90	12.61	199.0E6	43823103	8.635	0.652 #
11) tc gamma-Chlord	0.00	12.88	0	107.1E6	N.D.	1.537 #
13) tc 4,4'-DDE	13.37	13.35	19840039	45803400	0.882	0.703
14) tcm Dieldrin	0.00	13.56	0	34330836	N.D.	0.526 #
15) tcm Endrin	0.00	13.98	0	24793008	N.D.	0.437 #
17) tc beta-Endosul	0.00	14.28	0	29142574	N.D.	0.531 #
19) tcm 4,4'-DDT	0.00	14.58	0	50592429	N.D.	0.923 #
20) tc Endrin Aldeh	15.14	0.00	2780819	0	0.188	N.D. #
21) tc Endosulfan S	15.78	15.18	4848504	28977782	0.267	0.584 #
23) tc FAMPHUR	16.07	15.31	3378674	14110649	0.260	0.444 #
26) L8C Toxaphene	14.61	0.00	14476383	0	34.665	N.D. #
27) L8C Toxaphene {2}	0.00	14.70	0	12408367	N.D.	16.130 #
28) L8C Toxaphene {3}	0.00	14.80	0	356.2E6	N.D.	215.578 #
29) L8C Toxaphene {4}	0.00	16.08	0	3207082	N.D.	1.972 #
30) L8C Toxaphene {5}	16.34	0.00	9448068	0	13.994	N.D. #
Sum Toxaphene			23924451	371.8E6	48.659	233.679
Average Toxaphene					24.329	77.893
31) L9C Chlordane	11.44	0.00	128.4E6	0	167.827	N.D. #
33) L9C Chlordane {3}	0.00	12.03	0	50651249	N.D.	18.244 #

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX928.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:58 pm
 Operator : M.PEDRO
 Sample : 1112872 1.
 Misc : 06/27/08 206 ensr r44650 8081
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:07:19 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) L9C Chlordane{5}	0.00	14.39	0	26565695	N.D.	8.724 #
Sum Chlordane			128.4E6	77216944	167.827	26.969
Average Chlordane					167.827	13.484

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-7BB

Date Sampled : 06/26/08 09:20 Order #: 1112874 Sample Matrix: WATER
Date Received: 06/27/08 Submission #: R2844650 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/28/08		
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.048	0.048 U	UG/L
ALPHA-BHC	0.048	0.048 U	UG/L
BETA-BHC	0.048	0.048 U	UG/L
GAMMA-BHC	0.048	0.12	UG/L
DELTA-BHC	0.048	0.048 U	UG/L
ALPHA-CHLORDANE	0.048	0.048 U	UG/L
GAMMA-CHLORDANE	0.048	0.048 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.048	0.048 U	UG/L
4,4'-DDT	0.048	0.048 U	UG/L
DIELDRIN	0.096	0.096 U	UG/L
ALPHA-ENDOSULFAN	0.048	0.048 U	UG/L
BETA-ENDOSULFAN	0.096	0.096 U	UG/L
ENDOSULFAN SULFATE	0.096	0.096 U	UG/L
ENDRIN	0.048	0.048 U	UG/L
ENDRIN ALDEHYDE	0.096	0.096 U	UG/L
ENDRIN KETONE	0.096	0.096 U	UG/L
HEPTACHLOR	0.048	0.048 U	UG/L
HEPTACHLOR EPOXIDE	0.048	0.048 U	UG/L
HEXACHLOROBENZENE	0.048	0.048 U	UG/L
METHOXYCHLOR	0.48	0.48 U	UG/L
4,4'-TDE (DDD)	0.048	0.048 U	UG/L
TOXAPHENE	0.96	0.96 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	92	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	77	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex934.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 1:30 am
 Operator : M.PEDRO
 Sample : 1112874 1.
 Misc : 06/28/08 208 ensr r44650 8081
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:33:26 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

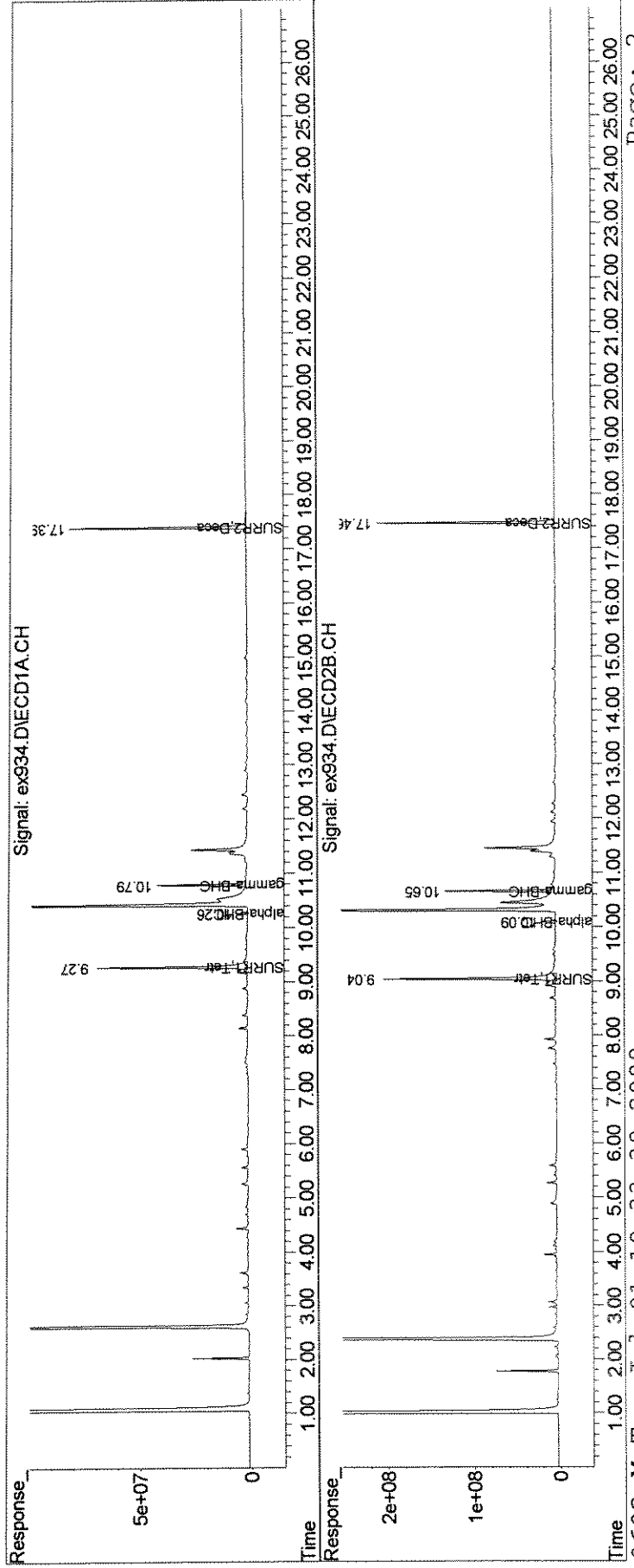
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1440.8E6	4407.0E6	76.504	72.226
Spiked Amount	100.000	Range 30 - 150	Recovery =		76.50%	72.23%
25) S SURR2,Decachloro	17.39	17.46	1570.6E6	3609.4E6	91.952	82.689
Spiked Amount	100.000	Range 30 - 150	Recovery =		91.95%	82.69%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	82813821	318.1E6	2.758	3.440m
4) tcm gamma-BHC (L	10.79	10.65	691.1E6	1953.0E6	25.141m	23.771m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex934.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 1:30 am
 Operator : M.PEDRO
 Sample : 1112874 1.
 Misc : 06/28/08 208 ensr r44650 8081
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:33:26 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

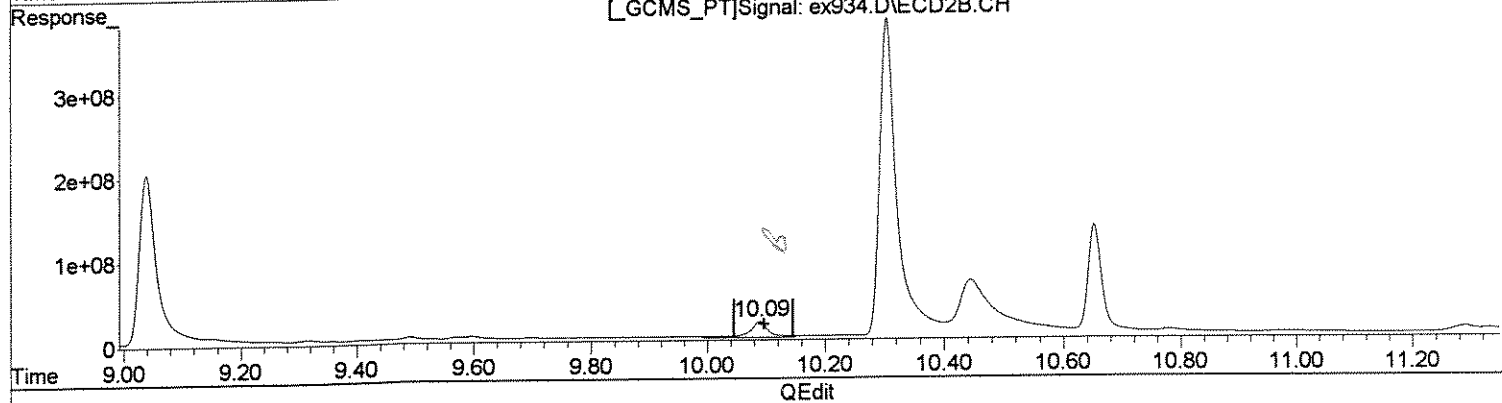
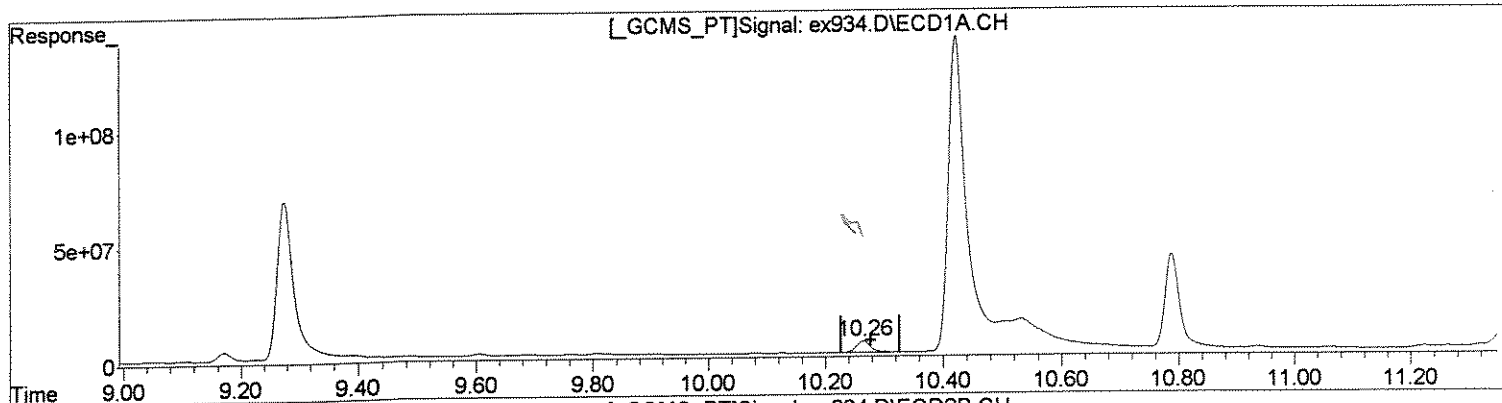


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 1:30 am
Operator : M.PEDRO
Sample : 1112874 1.
Misc : 06/28/08 208 ensr r44650 8081
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 2.758ug/l
response 82813821

(3) alpha-BHC #2 (tc)
10.09min 4.492ug/l
response 415332774

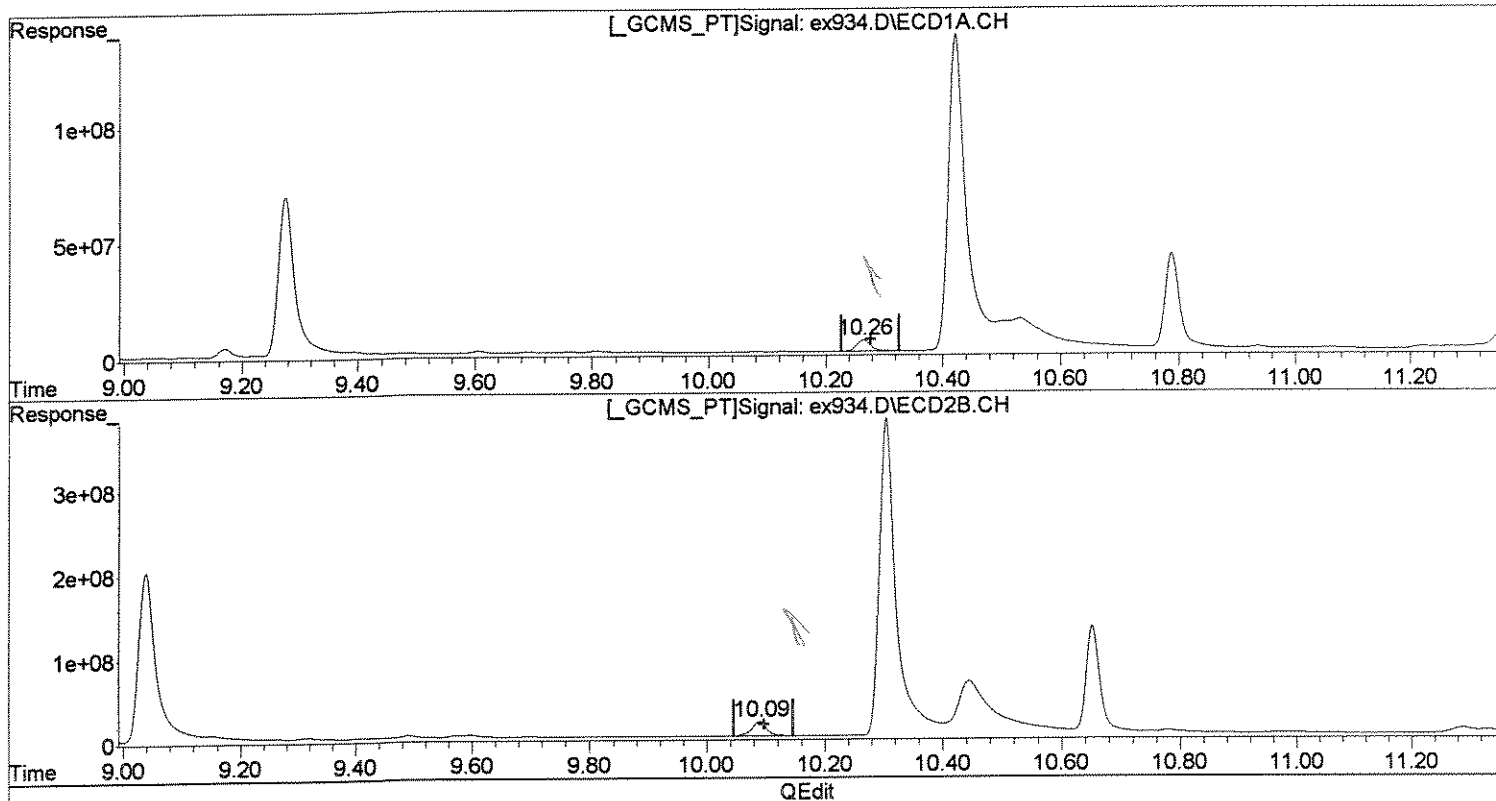
APR

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 1:30 am
Operator : M.PEDRO
Sample : 1112874 1.
Misc : 06/28/08 208 ensr r44650 8081
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 2.758ug/l
response 82813821

(3) alpha-BHC #2 (tc)
10.09min 3.440ug/l m
response 318068136

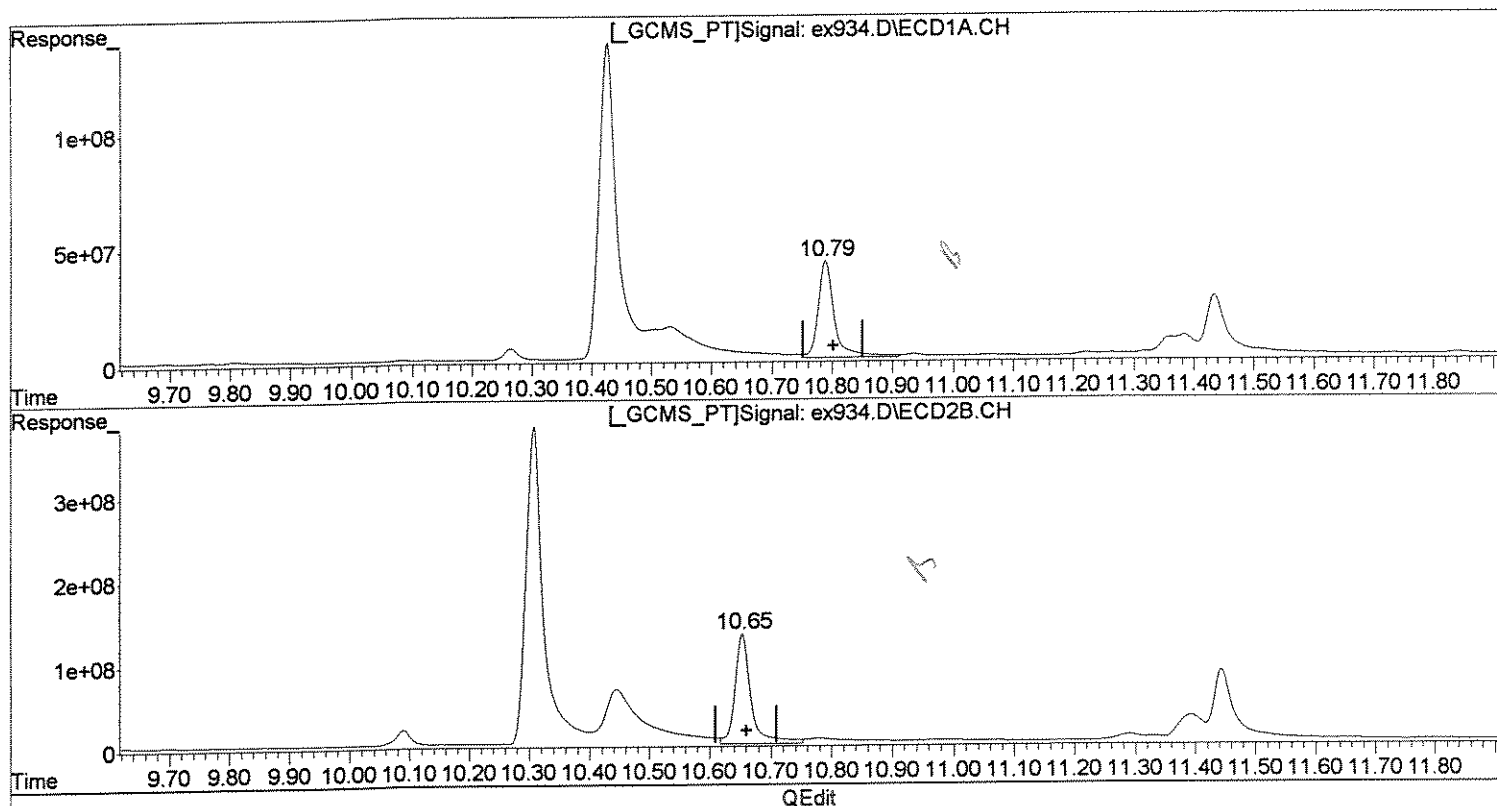
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 1:30 am
Operator : M.PEDRO
Sample : 1112874 1.
Misc : 06/28/08 208 ensr r44650 8081
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm))
10.79min 28.405ug/l
response 780828901

(4) gamma-BHC (L #2 (tcm))
10.65min 28.706ug/l
response 2358417504

Handwritten signature

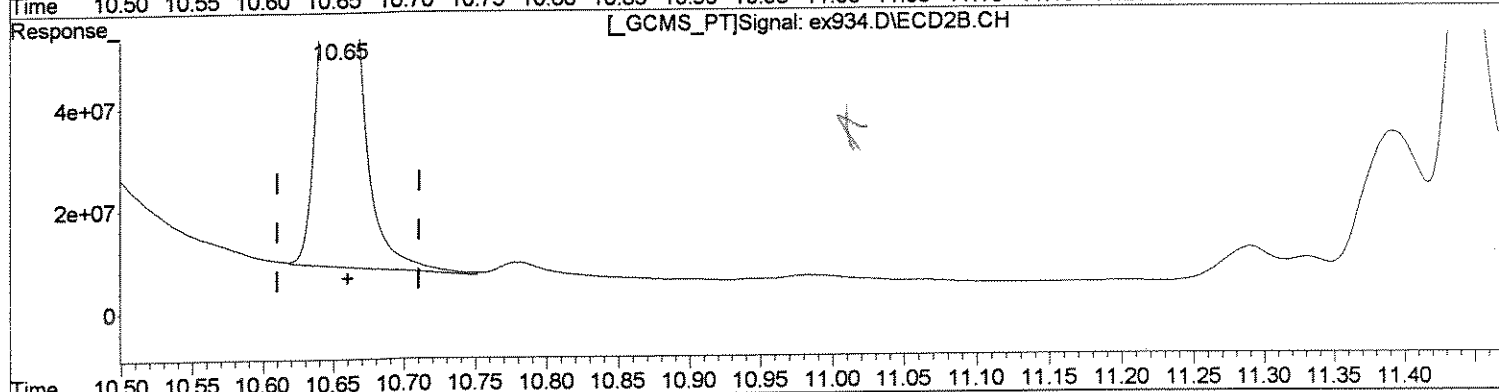
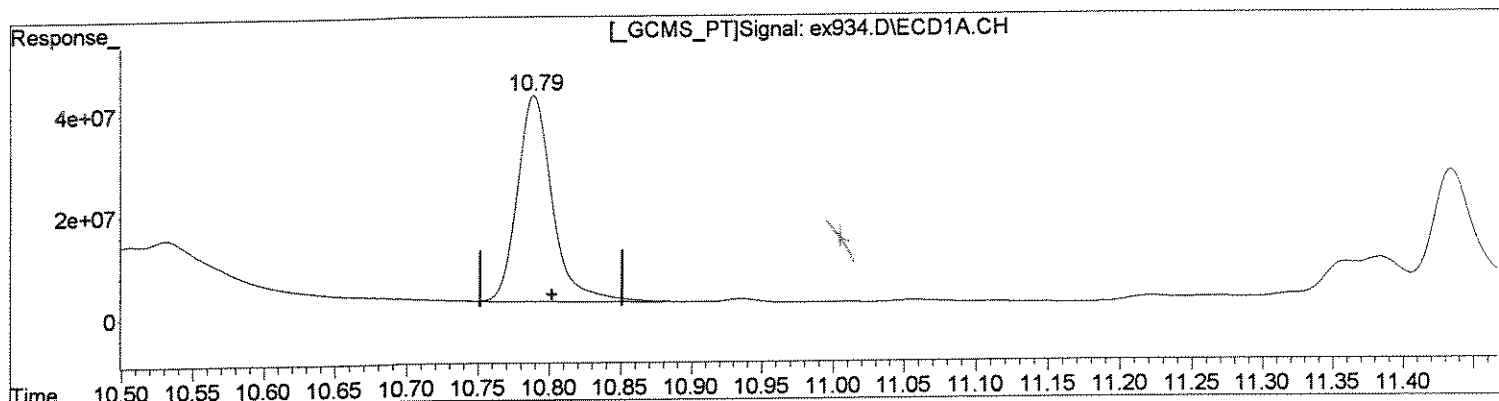
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 1:30 am
Operator : M.PEDRO
Sample : 1112874 1.
Misc : 06/28/08 208 ensr r44650 8081
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)
10.79min 25.141ug/l m
response 691099061

(4) gamma-BHC (L #2 (tcm)
10.65min 23.771ug/l m
response 1953004040

Handwritten signatures and dates:
M.P. 7/1
M.P. 7/1

(+) = Expected Retention Time

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX934.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 1:30 am
 Operator : M.PEDRO
 Sample : 1112874 1.
 Misc : 06/28/08 208 ensr r44650 8081
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:07:58 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1440.8E6	4407.0E6	76.504	72.226
Spiked Amount	100.000	Range 30 - 150	Recovery =		76.50%	72.23%
25) S SURR2,Decachloro	17.39	17.46	1570.6E6	3609.4E6	91.952	82.689
Spiked Amount	100.000	Range 30 - 150	Recovery =		91.95%	82.69%
Target Compounds						
2) TC HEXACHLOROBENZEN	0.00	9.87	0	34248574	N.D.	0.389 #
3) tc alpha-BHC	10.26	10.09	82813821	415.3E6	2.758	4.492 #
4) tcm gamma-BHC (L	10.79	10.65	780.8E6	2358.4E6	28.405	28.706
5) tcm Heptachlor	0.00	11.33	0	106.6E6	N.D.	1.334 #
6) tcm Aldrin	11.98	11.79	10518912	126.2E6	0.427	1.684 #
8) tc delta-BHC	11.22	0.00	32585667	0	1.178	N.D. #
9) tc Heptachlor E	12.90	12.61	35949208	35720692	1.560	0.532 #
11) tc gamma-Chlord	0.00	12.88	0	55201932	N.D.	0.792 #
12) tc alpha-Chlord	0.00	13.10	0	35723871	N.D.	0.538 #
13) tc 4,4'-DDE	13.37	13.35	14693824	45467498	0.654	0.698
14) tcm Dieldrin	0.00	13.56	0	25704270	N.D.	0.394 #
15) tcm Endrin	14.19	13.98	43909535	15842991	2.105	0.279 #
17) tc beta-Endosul	0.00	14.27	0	33794100	N.D.	0.616 #
19) tcm 4,4'-DDT	0.00	14.58	0	64660888	N.D.	1.180 #
20) tc Endrin Aldeh	15.13	14.76	4054882	108.1E6	0.274	2.686 #
23) tc FAMPHUR	0.00	15.32	0	15976438	N.D.	0.503 #
24) tc Endrin Keton	0.00	15.91	0	3800403	N.D.	0.070 #
26) L8C Toxaphene	14.61	14.42	22581592	15556767	54.074	9.495 #
27) L8C Toxaphene {2}	0.00	14.70	0	17302160	N.D.	22.491 #
29) L8C Toxaphene {4}	0.00	16.08	0	18804610	N.D.	11.561 #
30) L8C Toxaphene {5}	16.34	0.00	11838181	0	17.534	N.D. #
Sum Toxaphene			34419773	51663537	71.608	43.547
Average Toxaphene					35.804	14.516
31) L9C Chlordane	11.43	0.00	728.7E6	0	952.322	N.D. #
32) L9C Chlordane {2}	0.00	11.33	0	106.6E6	N.D.	31.159 #

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX934.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 1:30 am
 Operator : M.PEDRO
 Sample : 1112874 1.
 Misc : 06/28/08 208 ensr r44650 8081
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:07:58 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

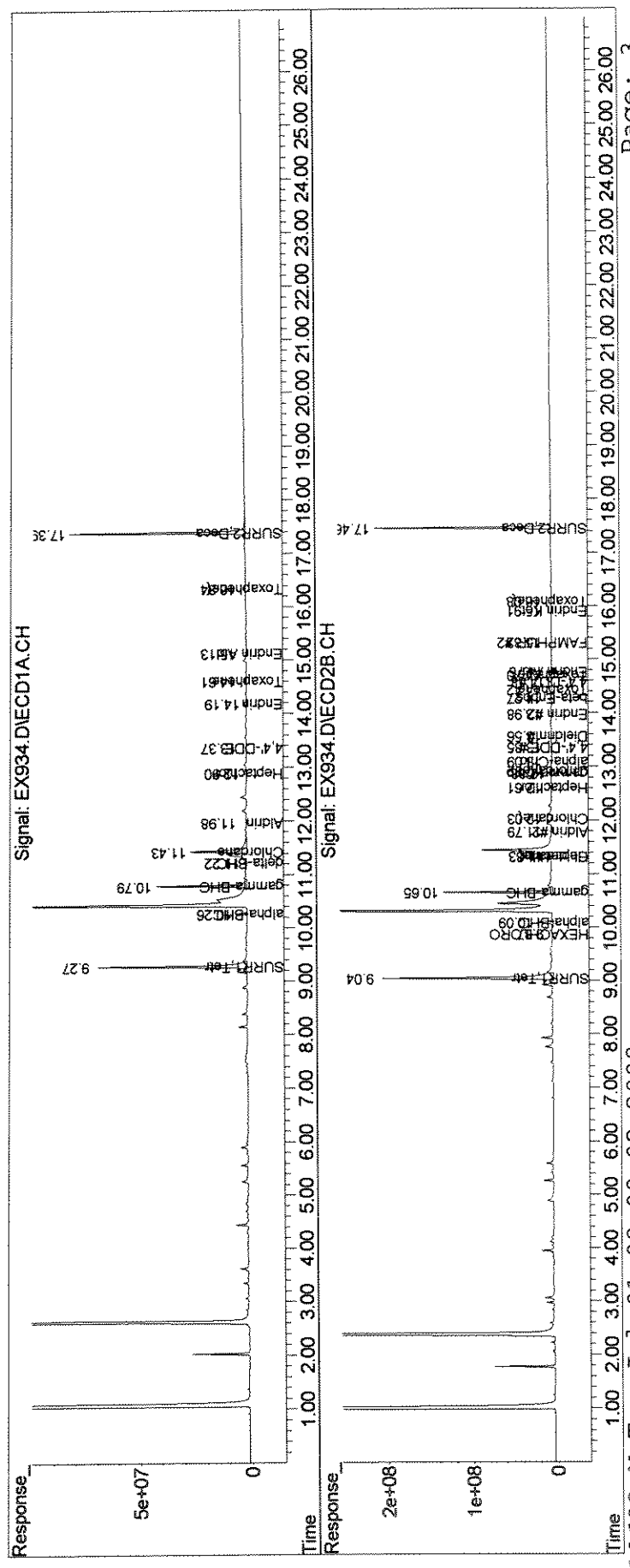
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) L9C Chlordane{3}	0.00	12.03	0	39581934	N.D.	14.257 #
34) L9C Chlordane{4}	0.00	12.92	0	38845684	N.D.	4.909 #
Sum Chlordane			728.7E6	185.0E6	952.322	50.325
Average Chlordane					952.322	16.775

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 1:30 am
Operator : M.PEDRO
Sample : 1112874 1.
Misc : 06/28/08 208 ensr r44650 8081
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01216

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-67B

Date Sampled : 06/27/08 07:00 Order #: 1113426 Sample Matrix: WATER
Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164027

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 07/01/08		
DATE ANALYZED	: 07/16/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.049	0.049 U	UG/L
ALPHA-BHC	0.049	0.049 U	UG/L
BETA-BHC	0.049	0.049 U	UG/L
GAMMA-BHC	0.049	0.049 U	UG/L
DELTA-BHC	0.049	0.049 U	UG/L
ALPHA-CHLORDANE	0.049	0.049 U	UG/L
GAMMA-CHLORDANE	0.049	0.049 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.049	0.049 U	UG/L
4,4'-DDT	0.049	0.049 U	UG/L
DIELDRIN	0.097	0.097 U	UG/L
ALPHA-ENDOSULFAN	0.049	0.049 U	UG/L
BETA-ENDOSULFAN	0.097	0.097 U	UG/L
ENDOSULFAN SULFATE	0.097	0.097 U	UG/L
ENDRIN	0.049	0.049 U	UG/L
ENDRIN ALDEHYDE	0.097	0.097 U	UG/L
ENDRIN KETONE	0.097	0.097 U	UG/L
HEPTACHLOR	0.049	0.049 U	UG/L
HEPTACHLOR EPOXIDE	0.049	0.049 U	UG/L
HEXACHLOROBENZENE	0.049	0.049 U	UG/L
METHOXYCHLOR	0.49	0.49 U	UG/L
4,4'-TDE (DDD)	0.049	0.049 U	UG/L
TOXAPHENE	0.97	0.97 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	94	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	72	%

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey137.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 6:12 pm
 Operator : M.PEDRO
 Sample : 1113426 1.0
 Misc : 07/01/08 206 ensr 8081 r44650
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:46:28 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

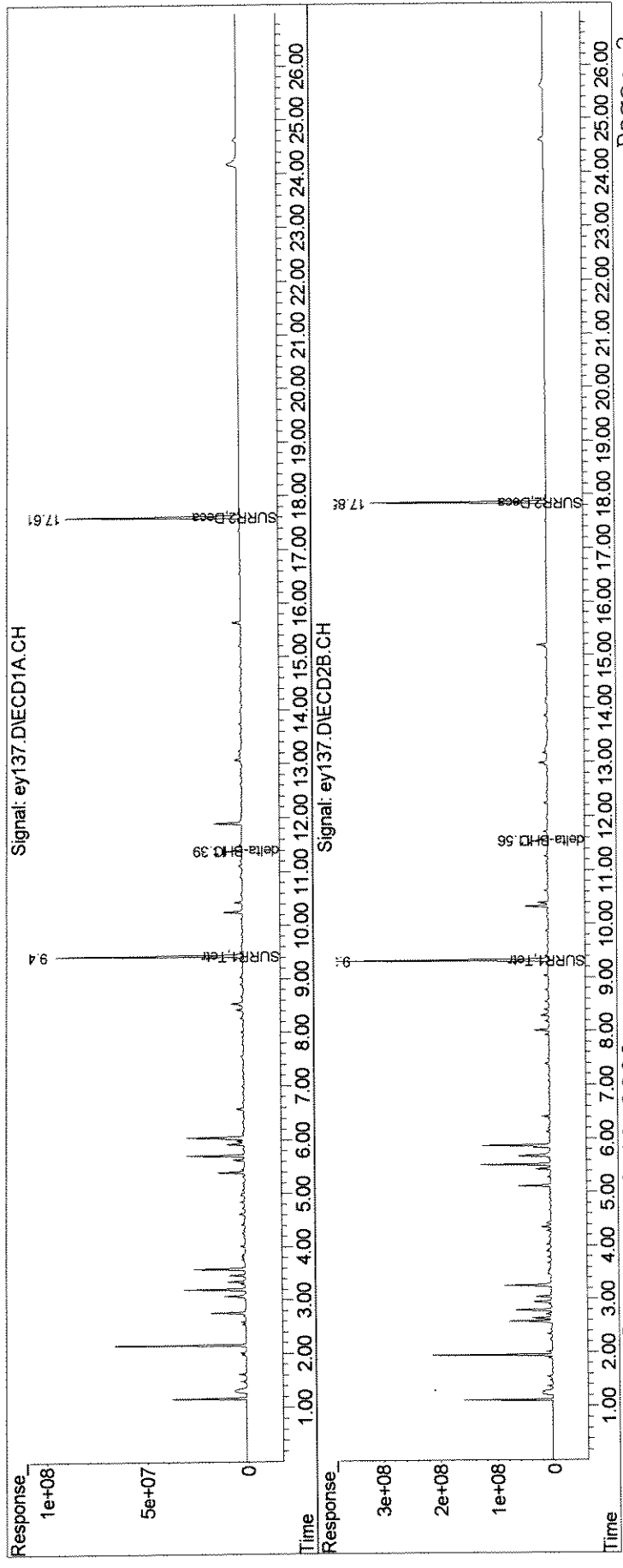
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	1460.5E6	5564.1E6	72.374	68.761
Spiked Amount	100.000	Range	30 - 150	Recovery =	72.37%	68.76%
25) S SURR2,Decachloro	17.61	17.85	1542.3E6	5197.1E6	88.305	94.364
Spiked Amount	100.000	Range	30 - 150	Recovery =	88.31%	94.36%
Target Compounds						
8) tc delta-BHC	11.39	11.56	76892132	276.3E6	2.827m	2.676m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey137.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 6:12 pm
Operator : M.PEDRO
Sample : 1113426 1.0
Misc : 07/01/08 206 ensr 8081 r44650
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 07:46:28 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

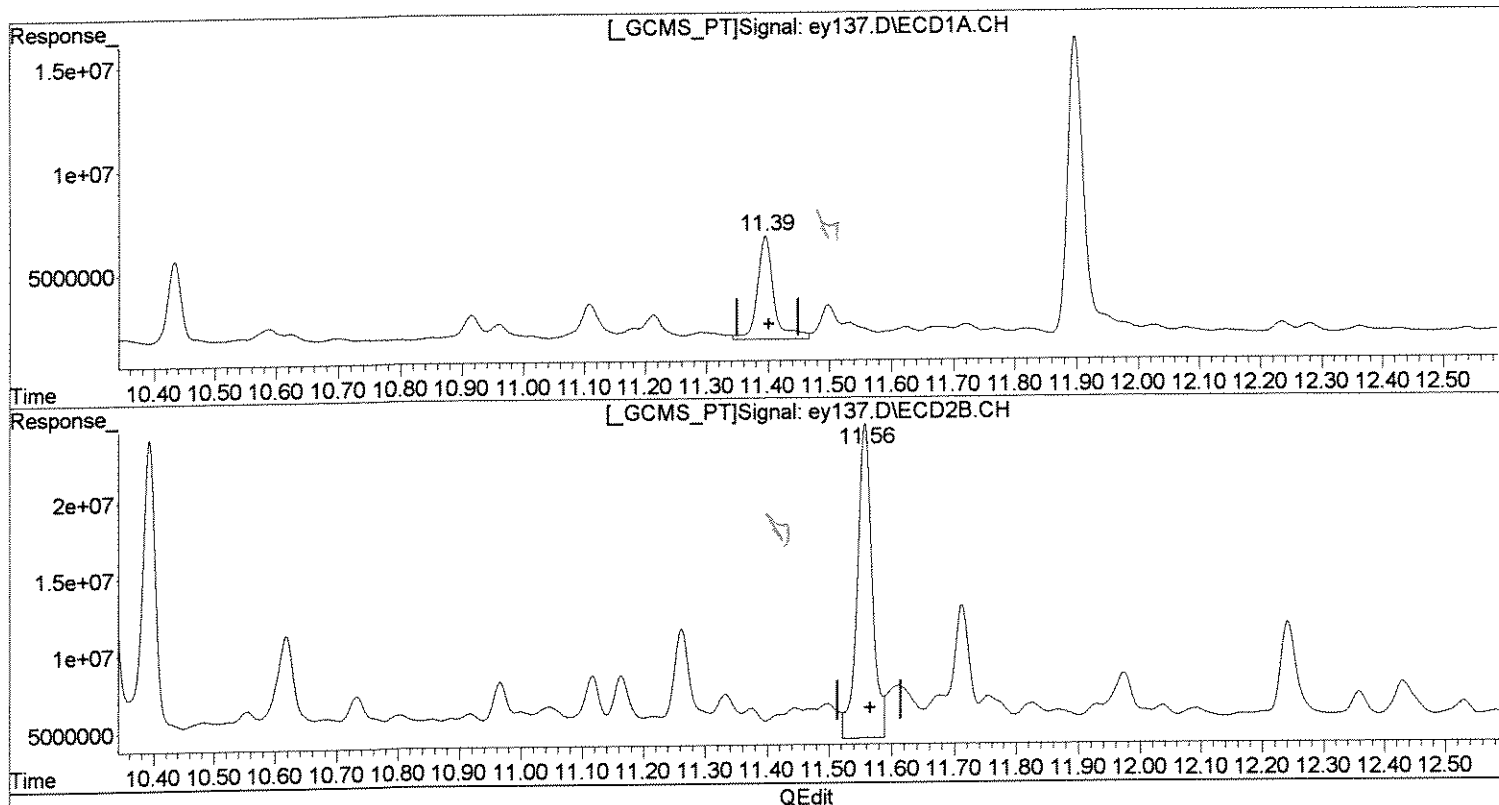


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey137.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 6:12 pm
Operator : M.PEDRO
Sample : 1113426 1.0
Misc : 07/01/08 206 ensr 8081 r44650
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:49 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)
11.39min 3.480ug/l
response 94652843

(8) delta-BHC #2 (tc)
11.56min 3.238ug/l
response 334313853

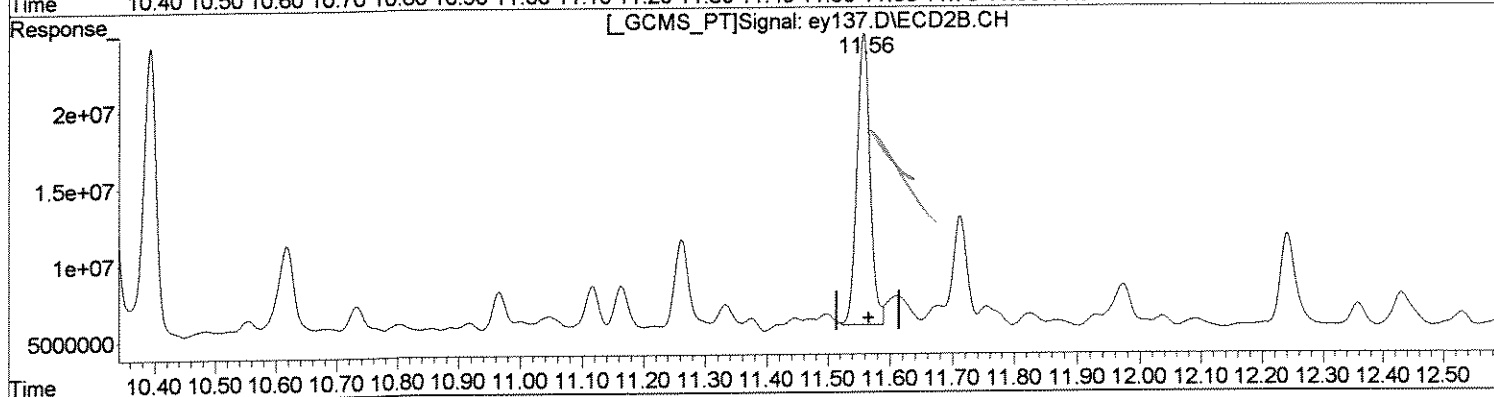
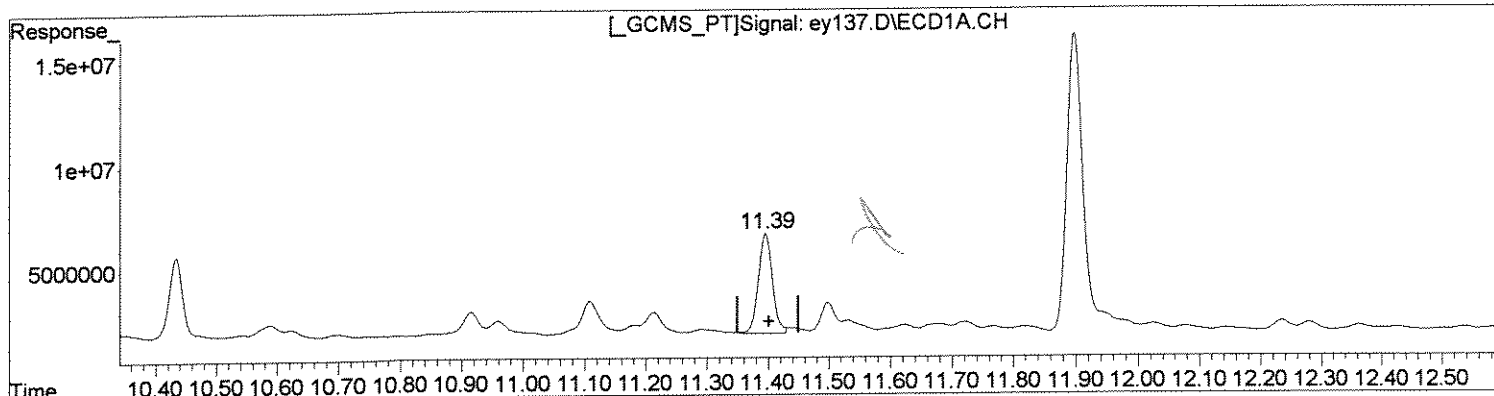
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey137.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 6:12 pm
 Operator : M.PEDRO
 Sample : 1113426 1.0
 Misc : 07/01/08 206 ensr 8081 r44650
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(8) delta-BHC (tc)
 11.39min 2.827ug/l m
 response 76892132

(8) delta-BHC #2 (tc)
 11.56min 2.676ug/l m
 response 276260969

Handwritten signature

Handwritten signature

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY137.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 6:12 pm
 Operator : M.PEDRO
 Sample : 1113426 1.0
 Misc : 07/01/08 206 ensr 8081 r44650
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

1) S SURR1,Tetrac	9.43	9.32	1460.5E6	5564.1E6	72.374	68.761
Spiked Amount	100.000	Range 30 - 150	Recovery =		72.37%	68.76%
25) S SURR2,Decachloro	17.61	17.85	1542.3E6	5197.1E6	88.305	94.364
Spiked Amount	100.000	Range 30 - 150	Recovery =		88.31%	94.36%

Target Compounds

2) TC HEXACHLORO BENZEN	10.13	10.13	18422458	177.6E6	0.627	1.461 #
3) tc alpha-BHC	10.43	10.39	77784642	355.5E6	2.516	2.996
4) tcm gamma-BHC (L	10.96	10.97	26014730	82846208	0.922	0.788
5) tcm Heptachlor	11.72	0.00	15570998	0	0.557	N.D. #
7) tc beta-BHC	11.11	11.12	48350864	96113063	4.211	2.130 #
8) tc delta-BHC	11.39	11.56	94652843	334.3E6	3.480	3.238
9) tc Heptachlor E	13.07	12.95	79389388	89673292	3.488	1.115 #
10) tc alpha-Endosu	0.00	13.52	0	52906917	N.D.	0.745 #
11) tc gamma-Chlord	0.00	13.21	0	255.1E6	N.D.	3.110 #
13) tc 4,4'-DDE	13.56	13.66	24768290	73266854	1.137	0.956
14) tcm Dieldrin	0.00	13.91	0	56120606	N.D.	0.717 #
15) tcm Endrin	14.37	14.34	16378693	29191550	0.791	0.433 #
16) tc KEPONE	0.00	14.51	0	22111035	N.D.	0.962 #
17) tc beta-Endosul	14.74	14.66	3142826	50231268	0.169	0.782 #
18) tc 4,4'-DDD	0.00	14.51	0	22111035	N.D.	0.355 #
19) tcm 4,4'-DDT	14.85	14.96	9770294	91191759	0.511	1.392 #
20) tc Endrin Aldeh	15.36	15.18	3463550	330.4E6	0.236	6.736 #
21) tc Endosulfan S	15.99	15.55	4364678	16242357	0.259	0.284
26) L8C Toxaphene	14.82	14.80	18472631	18927260	46.313	9.782 #
27) L8C Toxaphene {2}	0.00	15.09	0	16625806	N.D.	18.429 #
28) L8C Toxaphene {3}	0.00	15.18	0	330.4E6	N.D.	176.731 #
29) L8C Toxaphene {4}	0.00	16.43	0	9462106	N.D.	4.913 #
30) L8C Toxaphene {5}	16.55	16.68	12627422	14067184	18.971	6.234 #
Sum Toxaphene			31100053	389.5E6	65.284	216.089
Average Toxaphene					32.642	43.218

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY137.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 6:12 pm
 Operator : M.PEDRO
 Sample : 1113426 1.0
 Misc : 07/01/08 206 ensr 8081 r44650
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

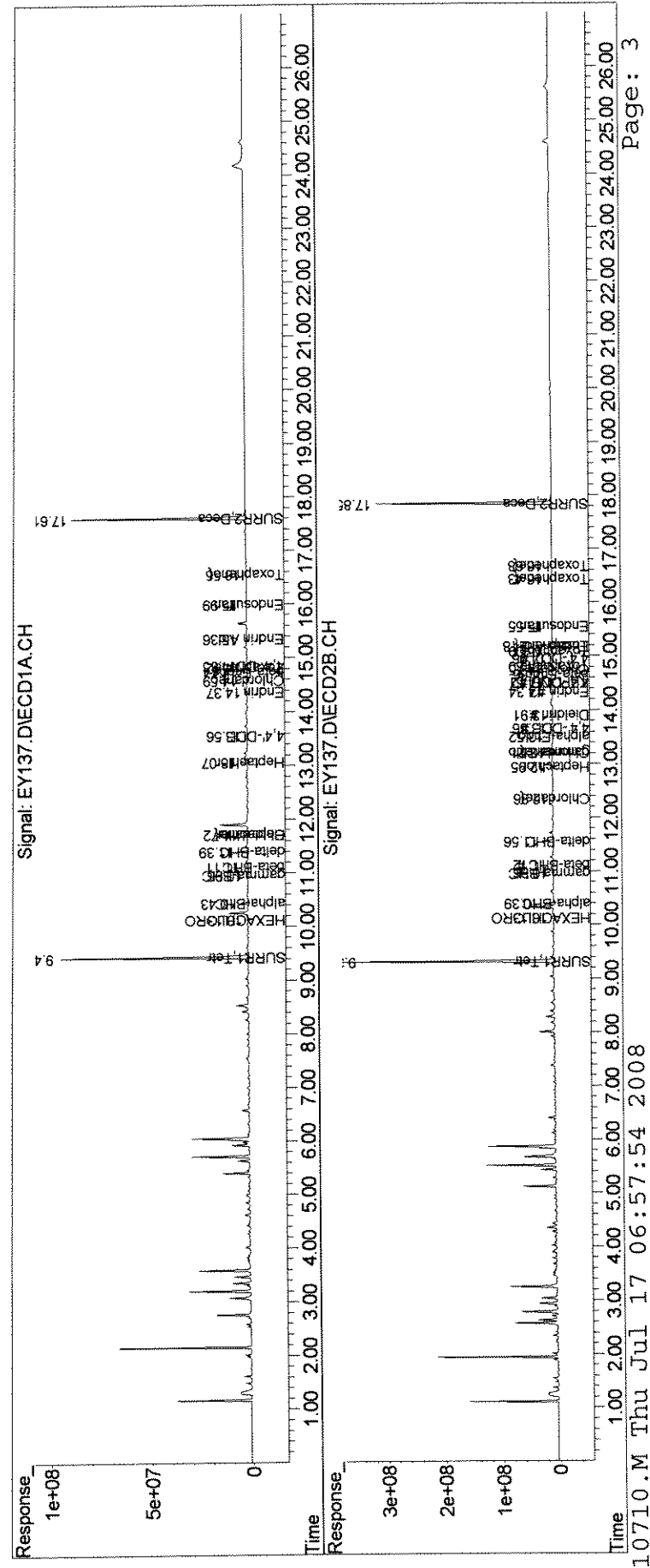
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) L9C Chlordane {2}	11.72	0.00	15570998	0	13.822	N.D. #
33) L9C Chlordane {3}	0.00	12.36	0	73360305	N.D.	20.493 #
34) L9C Chlordane {4}	0.00	13.21	0	255.1E6	N.D.	25.460 #
35) L9C Chlordane {5}	14.59	14.75	7580772	14695834	8.113	4.166 #
Sum Chlordane			23151770	343.2E6	21.935	50.119
Average Chlordane					10.968	16.706

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : EY137.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 6:12 pm
Operator : M.PEDRO
Sample : 1113426 1.0
Misc : 07/01/08 206 ensr 8081 r44650
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:49 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01226

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-6AB

Date Sampled : 06/27/08 09:50 Order #: 1113427 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164027

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 07/01/08		
DATE ANALYZED	: 07/16/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.049	0.049 U	UG/L
ALPHA-BHC	0.049	0.049 U	UG/L
BETA-BHC	0.049	0.049 U	UG/L
GAMMA-BHC	0.049	0.15	UG/L
DELTA-BHC	0.049	0.049 U	UG/L
ALPHA-CHLORDANE	0.049	0.049 U	UG/L
GAMMA-CHLORDANE	0.049	0.049 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.049	0.049 U	UG/L
4,4'-DDT	0.049	0.049 U	UG/L
DIELDRIN	0.097	0.097 U	UG/L
ALPHA-ENDOSULFAN	0.049	0.049 U	UG/L
BETA-ENDOSULFAN	0.097	0.097 U	UG/L
ENDOSULFAN SULFATE	0.097	0.097 U	UG/L
ENDRIN	0.049	0.049 U	UG/L
ENDRIN ALDEHYDE	0.097	0.097 U	UG/L
ENDRIN KETONE	0.097	0.097 U	UG/L
HEPTACHLOR	0.049	0.049 U	UG/L
HEPTACHLOR EPOXIDE	0.049	0.15	UG/L
HEXACHLOROBENZENE	0.049	0.049 U	UG/L
METHOXYCHLOR	0.49	0.49 U	UG/L
4,4'-TDE (DDD)	0.049	0.049 U	UG/L
TOXAPHENE	0.97	0.97 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	71	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	61	%

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey138.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 6:48 pm
 Operator : M.PEDRO
 Sample : 1113427 1.0
 Misc : 07/01/08 206 ensr 8081 r44650
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:48:05 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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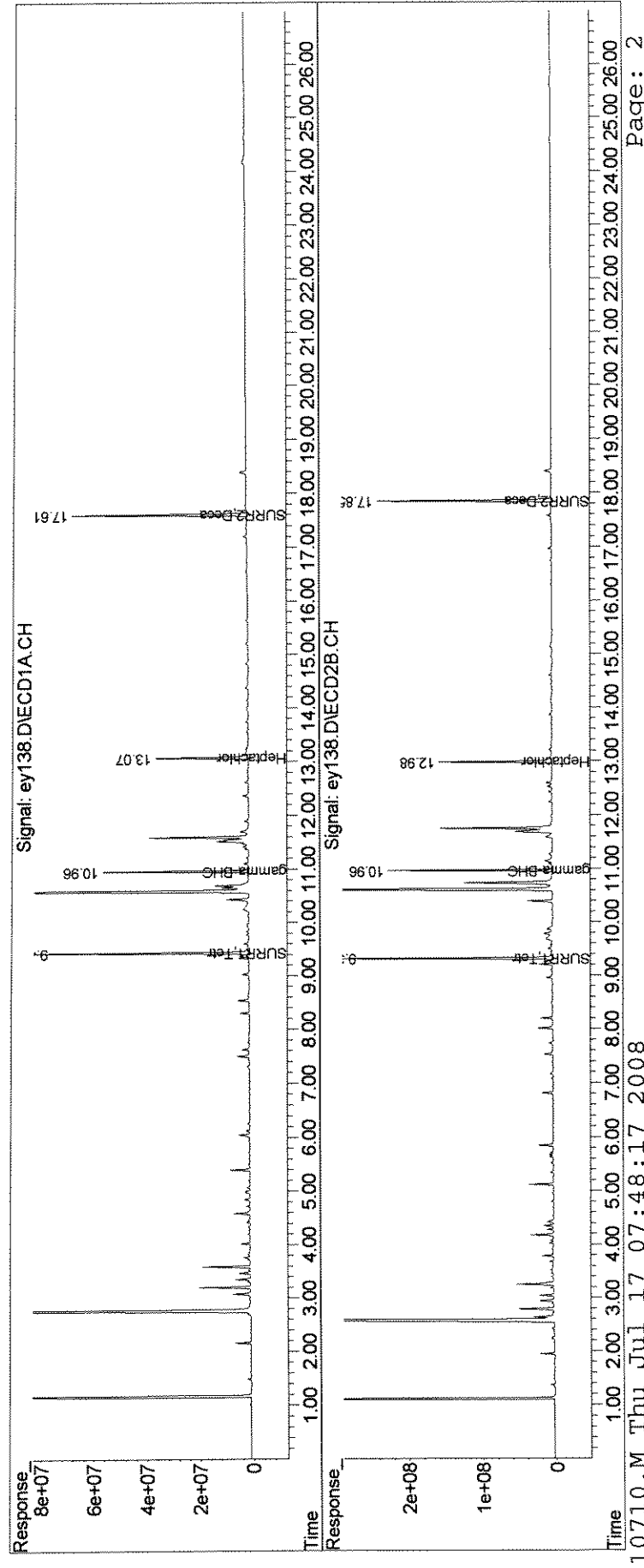
System Monitoring Compounds							
1) S	SURR1,Tetrac	9.43	9.32	1227.4E6	4669.8E6	60.820	57.709
	Spiked Amount	100.000	Range 30 - 150	Recovery =		60.82%	57.71%
25) S	SURR2,Decachloro	17.61	17.85	1123.5E6	3921.4E6	64.326	71.202
	Spiked Amount	100.000	Range 30 - 150	Recovery =		64.33%	71.20%
Target Compounds							
4)	tcm gamma-BHC (L	10.96	10.96	859.2E6	3184.2E6	30.461	30.304
9)	tc Heptachlor E	13.07	12.98	616.2E6	2513.7E6	27.073m	31.267m
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 6:48 pm
Operator : M.PEDRO
Sample : 1113427 1.0
Misc : 07/01/08 206 ensr 8081 r44650
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 07:48:05 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



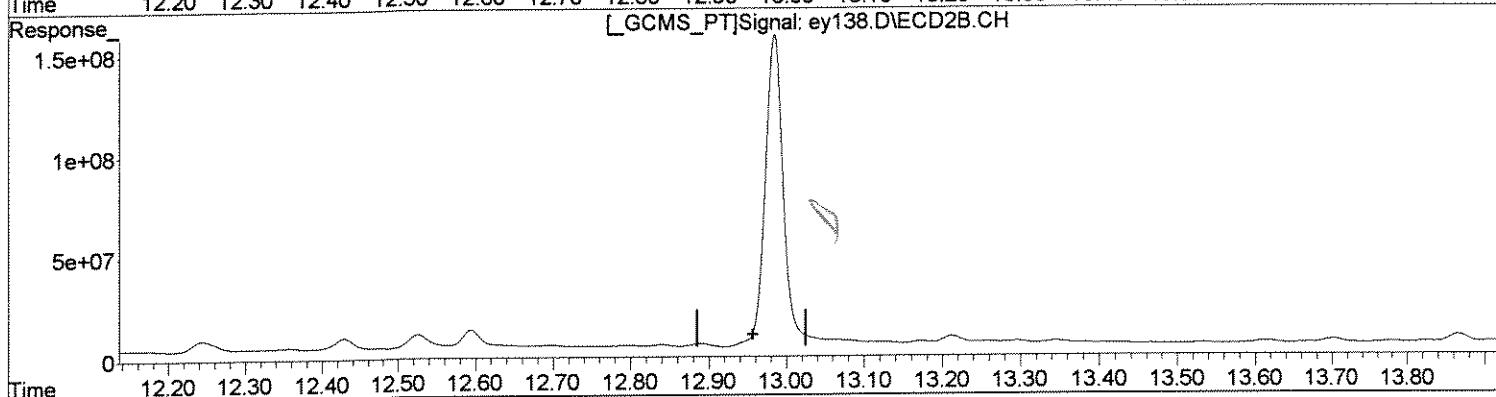
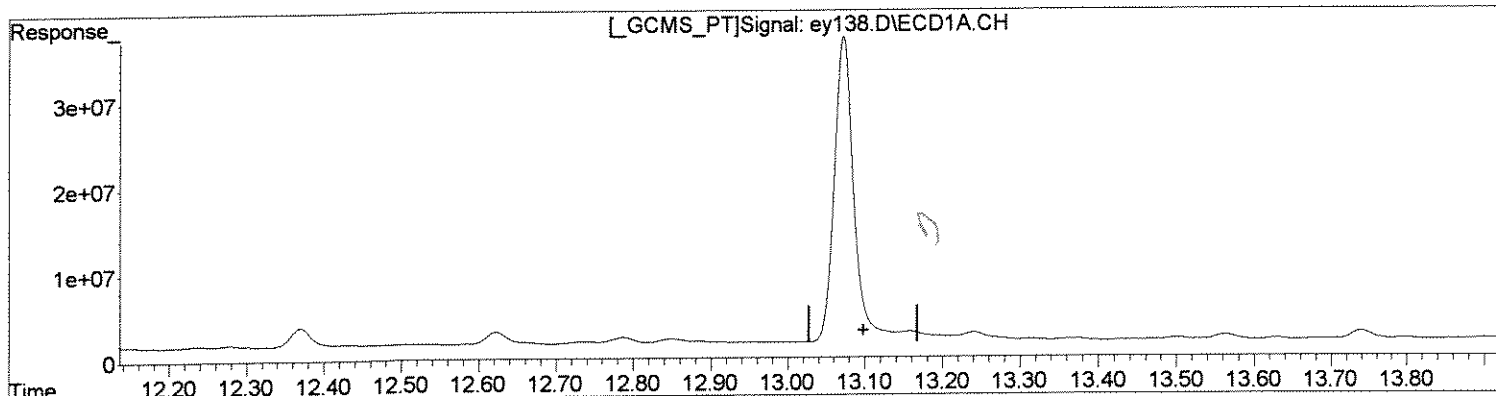
81220

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 6:48 pm
Operator : M.PEDRO
Sample : 1113427 1.0
Misc : 07/01/08 206 ensr 8081 r44650
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:56 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
0.00min 0.000ug/l
response 0

(9) Heptachlor E #2 (tc)
0.00min 0.000ug/l
response 0

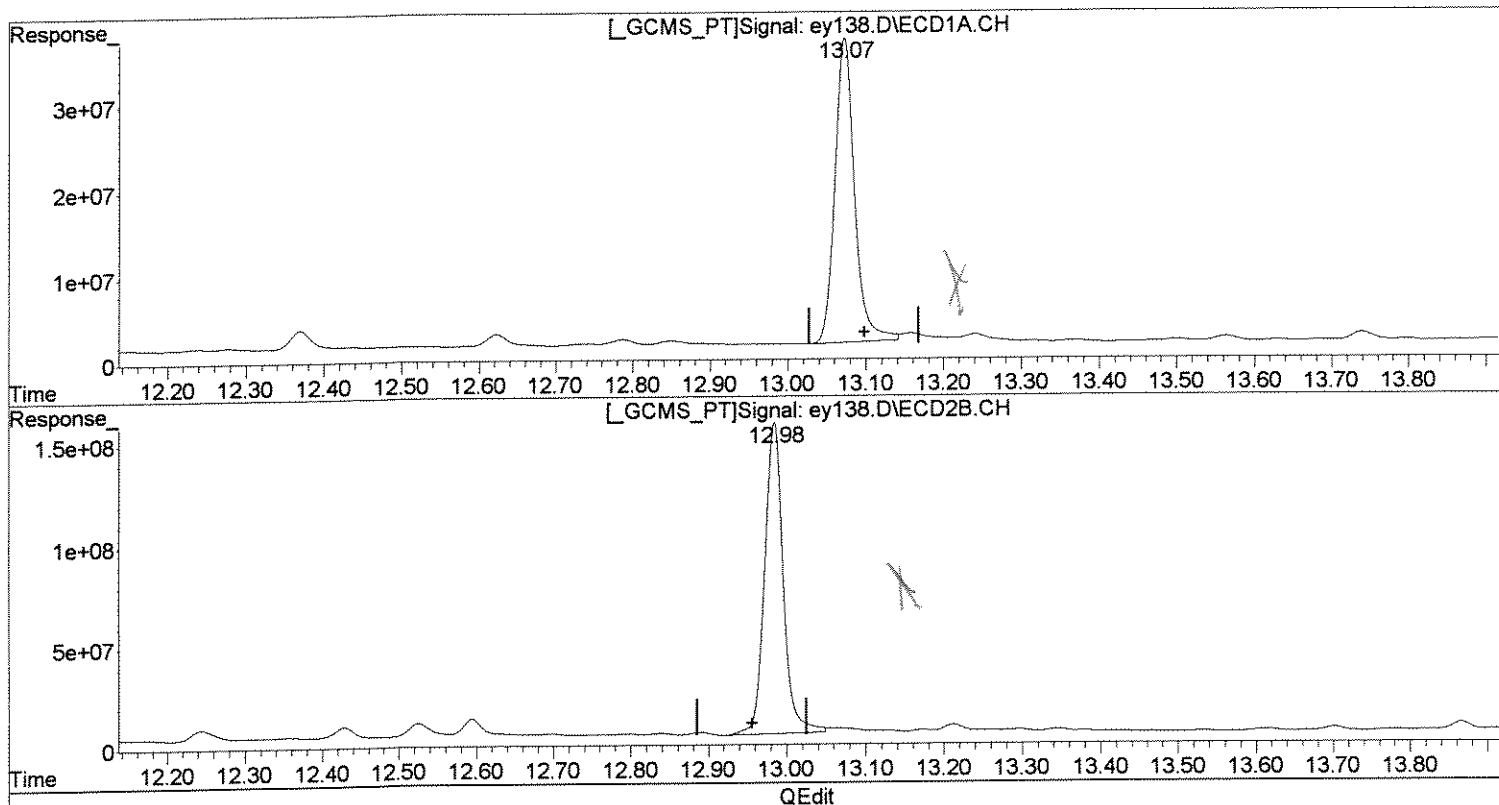
asc

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 6:48 pm
Operator : M.PEDRO
Sample : 1113427 1.0
Misc : 07/01/08 206 ensr 8081 r44650
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:56 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.07min 27.073ug/l m
response 616232126

(9) Heptachlor E #2 (tc)
12.98min 31.267ug/l m
response 2513734815

M.P.
7/17

M.P.
7/17

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY138.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 6:48 pm
 Operator : M.PEDRO
 Sample : 1113427 1.0
 Misc : 07/01/08 206 ensr 8081 r44650
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:56 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	1227.4E6	4669.8E6	60.820	57.709
Spiked Amount	100.000	Range 30 - 150	Recovery =		60.82%	57.71%
25) S SURR2,Decachloro	17.61	17.85	1123.5E6	3921.4E6	64.326	71.202
Spiked Amount	100.000	Range 30 - 150	Recovery =		64.33%	71.20%

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
Target Compounds							
2) TC HEXACHLORO BENZEN	10.13	10.14	16281185	16824362	0.554	0.138	#
3) tc alpha-BHC	10.43	10.39	165.3E6	581.8E6	5.348	4.902	
4) tcm gamma-BHC (L	10.96	10.96	859.2E6	3184.2E6	30.461	30.304	
5) tcm Heptachlor	11.70	11.63	115.2E6	62543526	4.122	0.623	#
6) tcm Aldrin	0.00	12.09	0	27869883	N.D.	0.306	#
7) tc beta-BHC	11.10	11.14	44155614	306.9E6	3.845	6.801	#
8) tc delta-BHC	11.38	11.59	33347700	254.8E6	1.226	2.468	#
10) tc alpha-Endosu	13.69	13.53	5531042	26409565	0.270	0.372	#
11) tc gamma-Chlord	0.00	13.21	0	98246073	N.D.	1.198	#
13) tc 4,4'-DDE	13.56	13.70	16430196	71120584	0.754	0.928	
14) tcm Dieldrin	0.00	13.91	0	31437845	N.D.	0.402	#
15) tcm Endrin	14.37	14.34	38466365	23120331	1.857	0.343	#
16) tc KEPONE	0.00	14.53	0	50234453	N.D.	2.185	#
17) tc beta-Endosul	0.00	14.66	0	37007045	N.D.	0.576	#
18) tc 4,4'-DDD	14.47	14.53	6789364	50234453	0.377	0.807	#
19) tcm 4,4'-DDT	0.00	14.96	0	60971991	N.D.	0.931	#
20) tc Endrin Aldeh	15.36	15.18	2840113	82054280	0.193	1.673	#
21) tc Endosulfan S	0.00	15.56	0	2696471	N.D.	0.047	#
22) tc Methoxychlor	15.56	0.00	2197210	0	0.236	N.D.	#
26) L8C Toxaphene	0.00	14.76	0	24546684	N.D.	12.687	#
27) L8C Toxaphene {2}	0.00	15.09	0	13897407	N.D.	15.405	#
28) L8C Toxaphene {3}	15.50	15.18	5479019	82054280	8.141	43.894	#
29) L8C Toxaphene {4}	16.33	16.44	1364344	13535024	1.667	7.027	#
30) L8C Toxaphene {5}	16.55	16.68	8729840	23594897	13.115	10.457	
Sum Toxaphene			15573202	157.6E6	22.923	89.469	
Average Toxaphene					7.641	17.894	

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY138.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 6:48 pm
 Operator : M.PEDRO
 Sample : 1113427 1.0
 Misc : 07/01/08 206 ensr 8081 r44650
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:56 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

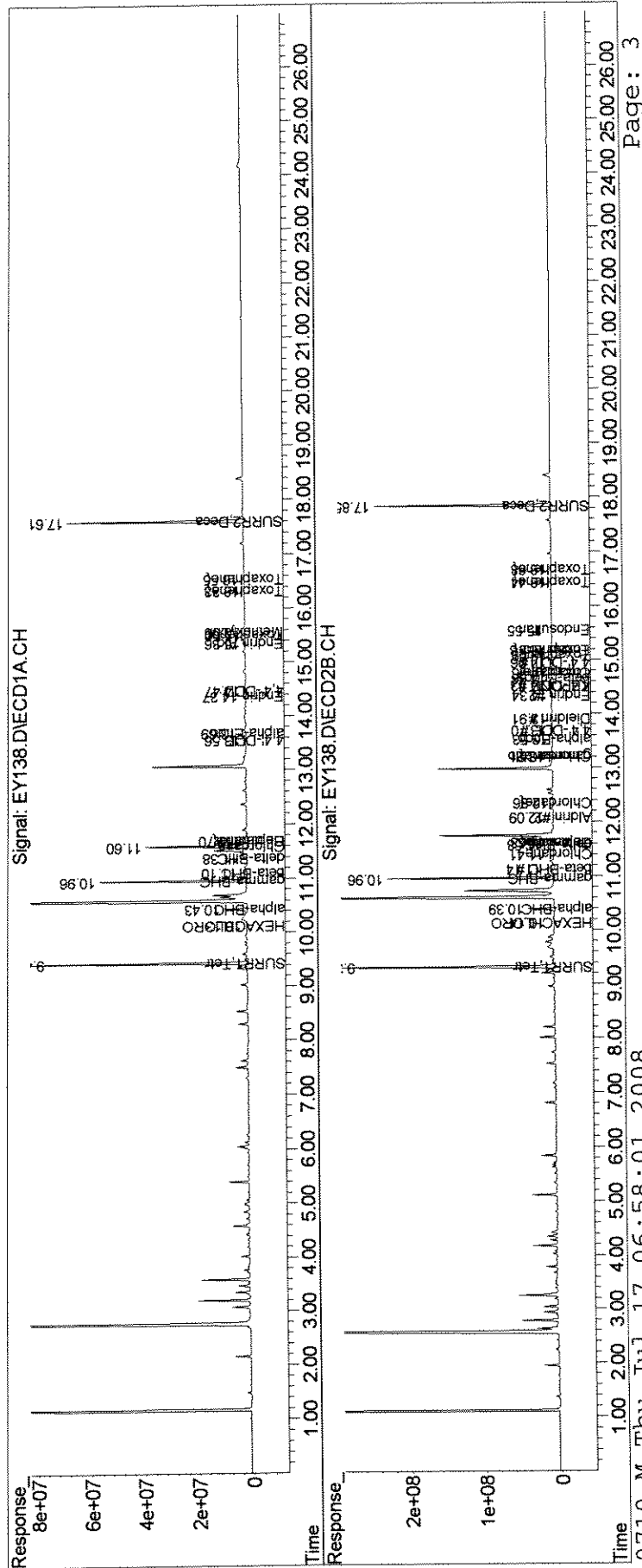
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) L9C Chlordane	11.60	11.40	647.5E6	12238928	812.084	3.785 #
32) L9C Chlordane {2}	11.70	11.63	115.2E6	62543526	102.259	13.900 #
33) L9C Chlordane {3}	0.00	12.36	0	38188789	N.D.	10.668 #
34) L9C Chlordane {4}	0.00	13.21	0	98246073	N.D.	9.804 #
35) L9C Chlordane {5}	0.00	14.76	0	24546684	N.D.	6.959 #
Sum Chlordane			762.7E6	235.8E6	914.343	45.116
Average Chlordane					457.171	9.023

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : EY138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 6:48 pm
Operator : M.PEDRO
Sample : 1113427 1.0
Misc : 07/01/08 206 ensr 8081 r44650
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:56 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-57AB

Date Sampled : 06/27/08 11:30 Order #: 1113428 Sample Matrix: WATER
Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164027

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 07/01/08		
DATE ANALYZED	: 07/16/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.048	0.048 U	UG/L
ALPHA-BHC	0.048	0.057	UG/L
BETA-BHC	0.048	0.048 U	UG/L
GAMMA-BHC	0.048	0.048 U	UG/L
DELTA-BHC	0.048	0.048 U	UG/L
ALPHA-CHLORDANE	0.048	0.048 U	UG/L
GAMMA-CHLORDANE	0.048	0.048 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.048	0.048 U	UG/L
4,4'-DDT	0.048	0.048 U	UG/L
DIELDRIN	0.095	0.095 U	UG/L
ALPHA-ENDOSULFAN	0.048	0.048 U	UG/L
BETA-ENDOSULFAN	0.095	0.095 U	UG/L
ENDOSULFAN SULFATE	0.095	0.095 U	UG/L
ENDRIN	0.048	0.048 U	UG/L
ENDRIN ALDEHYDE	0.095	0.095 U	UG/L
ENDRIN KETONE	0.095	0.095 U	UG/L
HEPTACHLOR	0.048	0.048 U	UG/L
HEPTACHLOR EPOXIDE	0.048	0.19	UG/L
HEXACHLOROBENZENE	0.048	0.048 U	UG/L
METHOXYCHLOR	0.48	0.48 U	UG/L
4,4'-TDE (DDD)	0.048	0.048 U	UG/L
TOXAPHENE	0.95	0.95 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	89	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	85	%

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey139.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 7:23 pm
 Operator : M.PEDRO
 Sample : 1113428 1.0
 Misc : 07/01/08 210 ensr 8081 r44650
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:49:27 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	1724.8E6	6430.3E6	85.470	79.465
Spiked Amount	100.000	Range	30 - 150	Recovery	=	85.47%
25) S SURR2,Decachloro	17.61	17.85	1445.1E6	4895.3E6	82.741	88.884
Spiked Amount	100.000	Range	30 - 150	Recovery	=	82.74%
Target Compounds						
3) tc alpha-BHC	10.43	10.39	366.1E6	1416.0E6	11.843	11.932
9) tc Heptachlor E	13.07	12.98	721.7E6	3195.9E6	31.705m	39.752m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

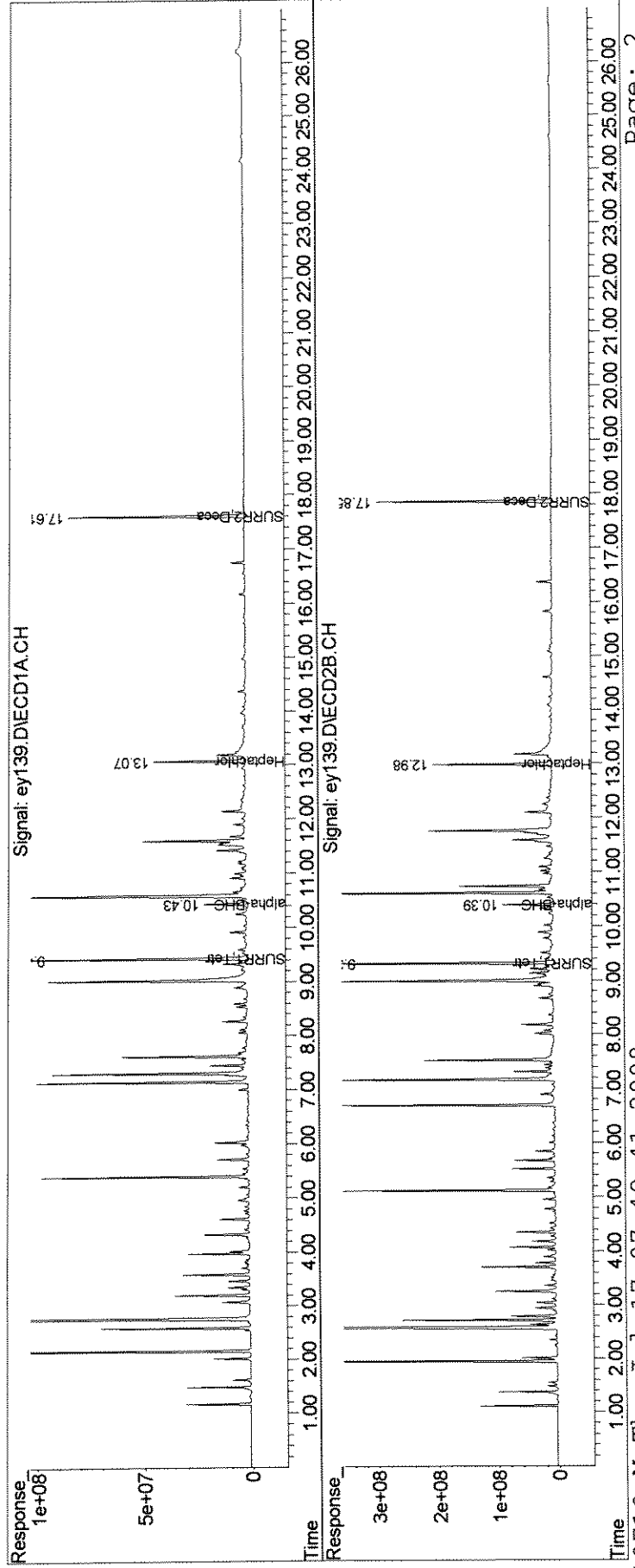


Quantitation Report (QT Reviewed)

Data Path : J:\ACQDATA\6890D\DATA\071608\
Data File : ey139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 7:23 pm
Operator : M.PEDRO
Sample : 1113428 1.0
Misc : 07/01/08 210 ensr 8081 r44650
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 07:49:27 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



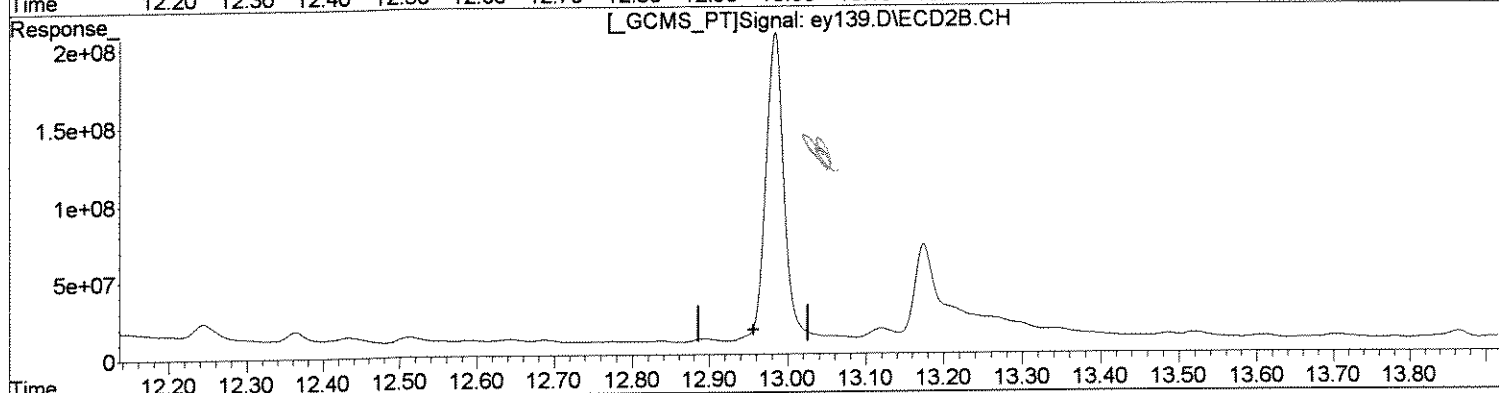
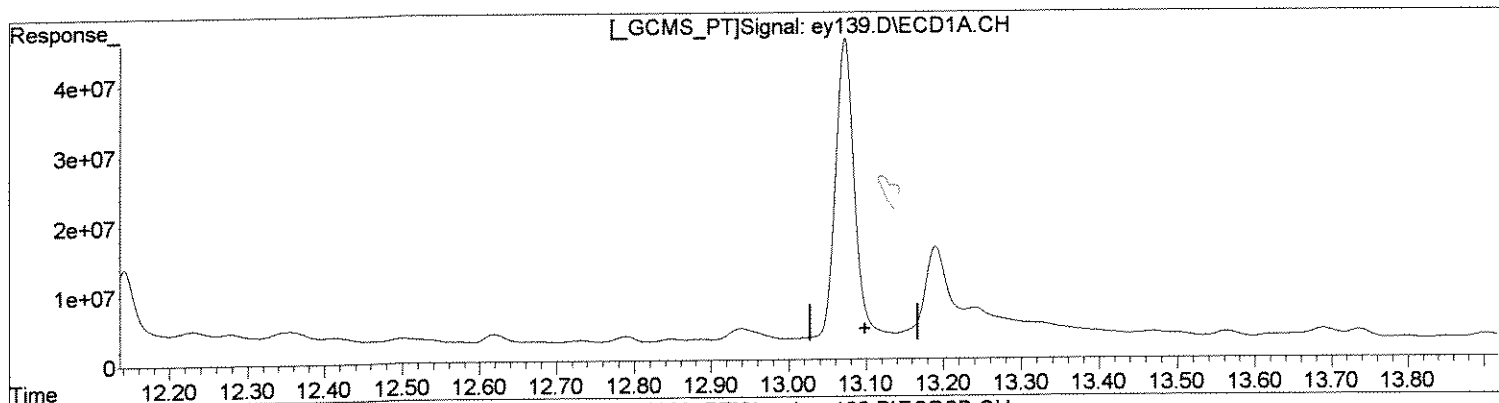
81237

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 7:23 pm
Operator : M.PEDRO
Sample : 1113428 1.0
Misc : 07/01/08 210 ensr 8081 r44650
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:58:03 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
0.00min 0.000ug/l
response 0

(9) Heptachlor E #2 (tc)
0.00min 0.000ug/l
response 0

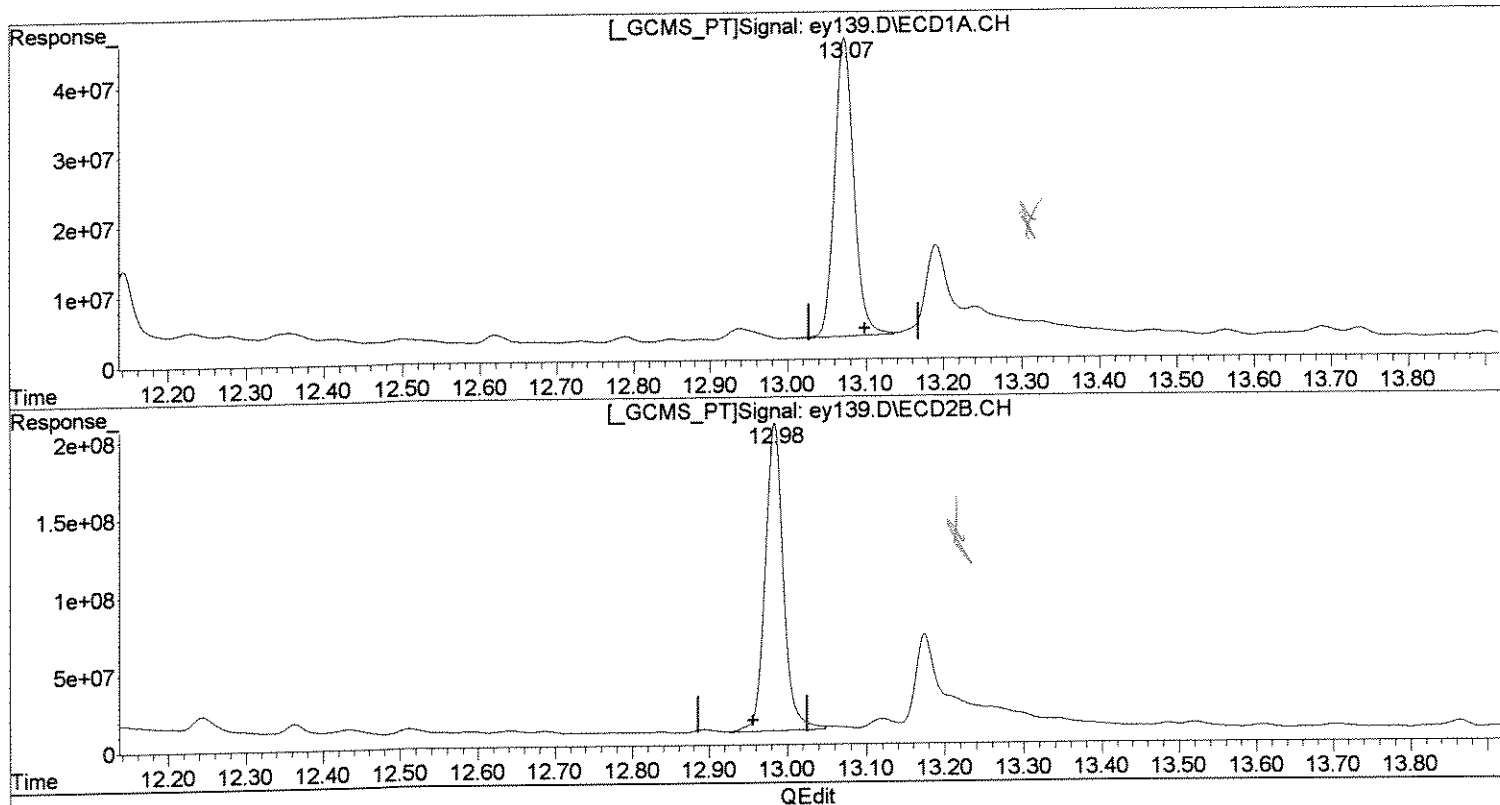
PHC

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 7:23 pm
Operator : M.PEDRO
Sample : 1113428 1.0
Misc : 07/01/08 210 ensr 8081 r44650
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:58:03 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.07min 31.705ug/l m
response 721659259

(9) Heptachlor E #2 (tc)
12.98min 39.752ug/l m
response 3195899267

Handwritten notes:
12/7/08
12/7/08

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY139.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 7:23 pm
 Operator : M.PEDRO
 Sample : 1113428 1.0
 Misc : 07/01/08 210 ensr 8081 r44650
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:58:03 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S	SURR1,Tetrac	9.43	9.32	1724.8E6	6430.3E6	85.470	79.465
	Spiked Amount	100.000	Range 30 - 150	Recovery =		85.47%	79.47%
25) S	SURR2,Decachloro	17.61	17.85	1445.1E6	4895.3E6	82.741	88.884
	Spiked Amount	100.000	Range 30 - 150	Recovery =		82.74%	88.88%

Target Compounds

2) TC	HEXACHLOROBENZEN	10.15	0.00	37232737	0	1.267	N.D.	#
3) tc	alpha-BHC	10.43	10.39	366.1E6	1416.0E6	11.843	11.932	
4) tcm	gamma-BHC (L	10.96	10.96	55155834	356.1E6	1.955	3.389	#
6) tcm	Aldrin	0.00	12.09	0	1528.1E6	N.D.	16.775	#
7) tc	beta-BHC	11.10	0.00	46224443	0	4.025	N.D.	#
8) tc	delta-BHC	11.39	11.55	55094167	427.3E6	2.026	4.139	#
10) tc	alpha-Endosu	13.69	13.52	65681053	224.7E6	3.210	3.165	
12) tc	alpha-Chlord	13.47	0.00	75168760	0	3.515	N.D.	#
13) tc	4,4'-DDE	13.56	13.67	43922219	65709308	2.017	0.857	#
14) tcm	Dieldrin	0.00	13.91	0	67331939	N.D.	0.861	#
15) tcm	Endrin	14.37	14.36	97797415	141.4E6	4.720	2.099	#
16) tc	KEPONE	0.00	14.52	0	52673641	N.D.	2.291	#
18) tc	4,4'-DDD	14.48	14.52	32434414	52673641	1.803	0.846	#
19) tcm	4,4'-DDT	14.89	14.96	12784942	115.0E6	0.668	1.756	#
20) tc	Endrin Aldeh	0.00	15.18	0	114.7E6	N.D.	2.338	#
22) tc	Methoxychlor	15.58	0.00	7569264	0	0.813	N.D.	#
24) tc	Endrin Keton	16.36	0.00	7261546	0	0.375	N.D.	#
26) L8C	Toxaphene	14.82	14.80	22100423	50513370	55.408	26.107	#
27) L8C	Toxaphene {2}	14.89	15.09	12784942	176.7E6	35.936	195.857	#
28) L8C	Toxaphene {3}	15.50	15.18	5792485	114.7E6	8.606	61.347	#
29) L8C	Toxaphene {4}	16.36	0.00	7261546	0	8.872	N.D.	#
30) L8C	Toxaphene {5}	16.55	16.68	30367657	60152144	45.623	26.659	#
	Sum Toxaphene			78307052	402.0E6	154.446	309.969	
	Average Toxaphene					30.889	77.492	
31) L9C	Chlordane	11.60	0.00	833.4E6	0	1045.311	N.D.	#

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY139.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 7:23 pm
 Operator : M.PEDRO
 Sample : 1113428 1.0
 Misc : 07/01/08 210 ensr 8081 r44650
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:58:03 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

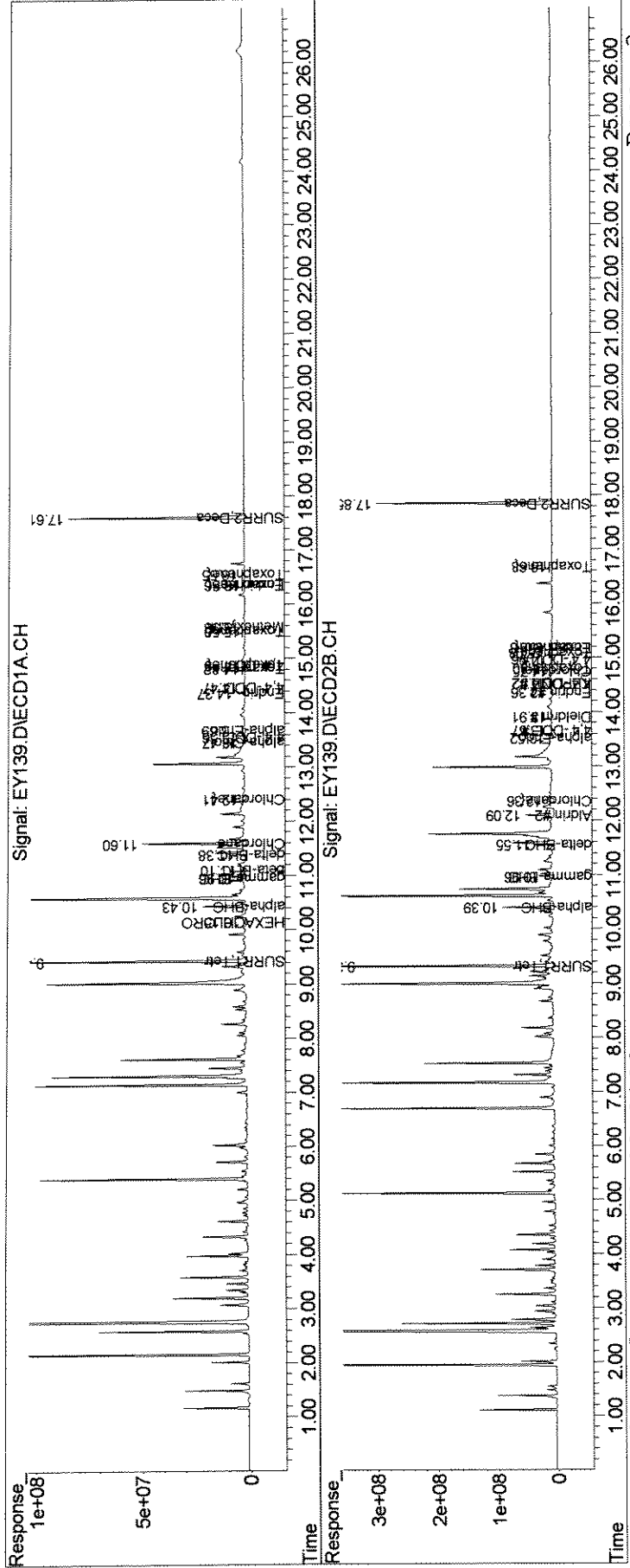
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) L9C Chlordane{3}	12.41	12.36	63733647	349.6E6	61.780	97.660 #
35) L9C Chlordane{5}	0.00	14.75	0	34788384	N.D.	9.862 #
Sum Chlordane			897.1E6	384.4E6	1107.091	107.523
Average Chlordane					553.546	53.761

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : EY139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 7:23 pm
Operator : M.PEDRO
Sample : 1113428 1.0
Misc : 07/01/08 210 ensr 8081 r44650
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:58:03 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01240

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-95B

Date Sampled : 06/27/08 08:30 Order #: 1113429 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164027

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 07/01/08		
DATE ANALYZED	: 07/16/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.047 U	UG/L
BETA-BHC	0.047	0.047 U	UG/L
GAMMA-BHC	0.047	0.047 U	UG/L
DELTA-BHC	0.047	0.047 U	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.079	UG/L
HEXACHLOROBENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	86	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	79	%

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey140.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 7:59 pm
 Operator : M.PEDRO
 Sample : 1113429 1.0
 Misc : 07/01/08 212 ensr 8081 r44650
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:50:23 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

 System Monitoring Compounds

1) S SURR1,Tetrac	9.43	9.32	1588.1E6	6172.0E6	78.696	76.273
Spiked Amount	100.000	Range	30 - 150	Recovery =	78.70%	76.27%
25) S SURR2,Decachloro	17.60	17.85	1415.4E6	4713.4E6	81.041	85.582
Spiked Amount	100.000	Range	30 - 150	Recovery =	81.04%	85.58%

Target Compounds

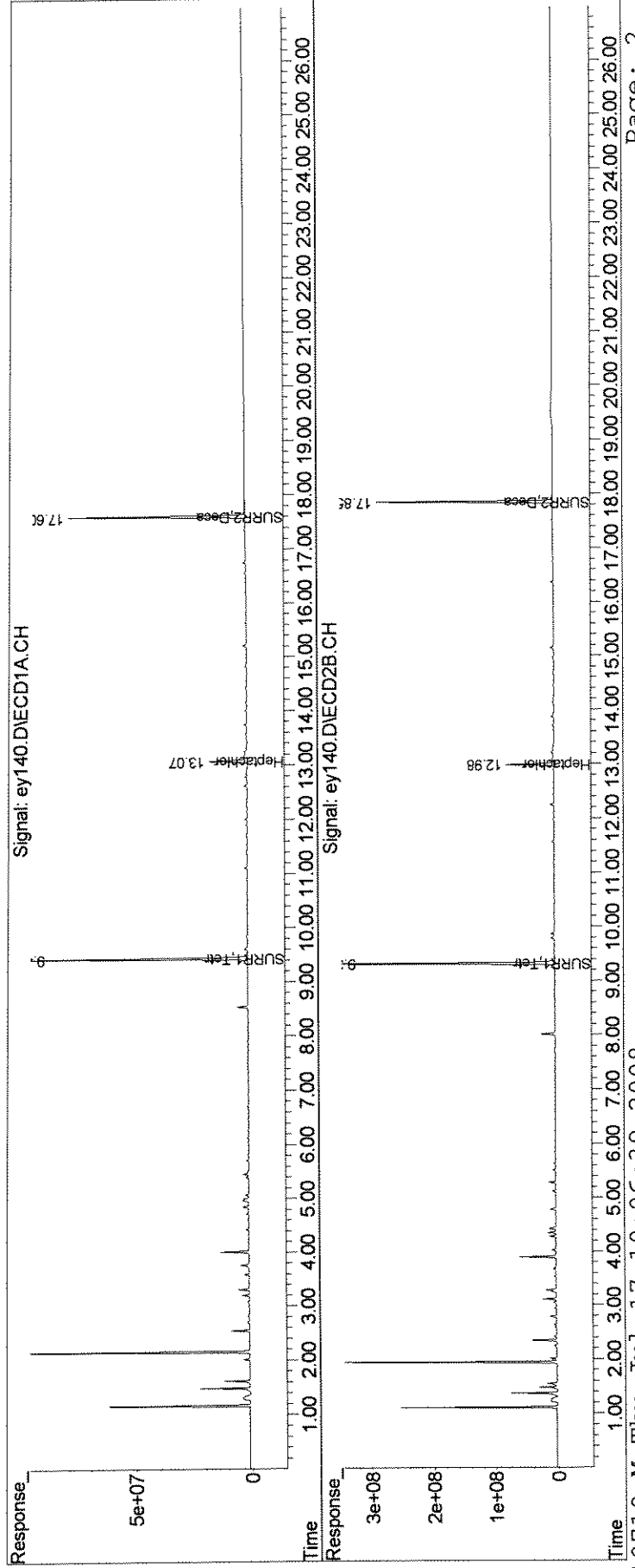
9) tc Heptachlor E	13.07	12.98	333.3E6	1354.0E6	14.641	16.841m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey140.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 7:59 pm
Operator : M.PEDRO
Sample : 1113429 1.0
Misc : 07/01/08 212 ensr 8081 r44650
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 07:50:23 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



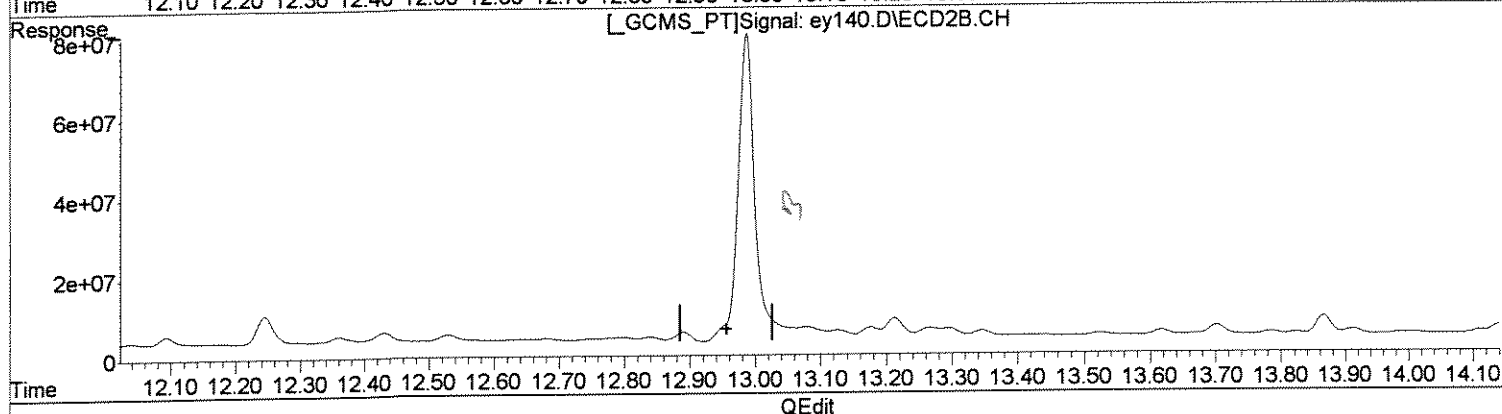
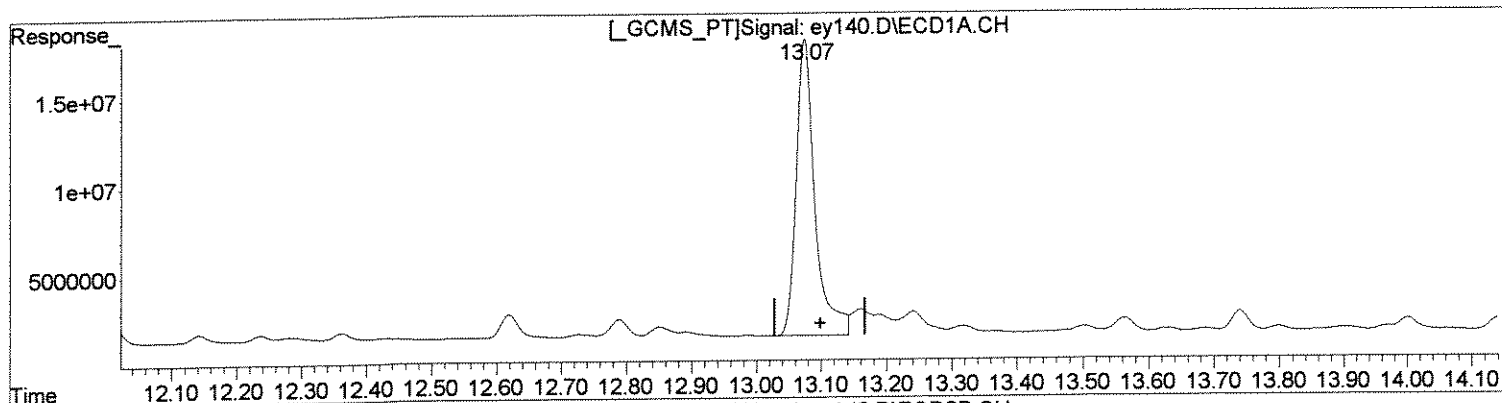
81245

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey140.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 7:59 pm
Operator : M.PEDRO
Sample : 1113429 1.0
Misc : 07/01/08 212 ensr 8081 r44650
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:58:10 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.07min 14.641ug/l
response 333255206

(9) Heptachlor E #2 (tc)
0.00min 0.000ug/l
response 0

AL

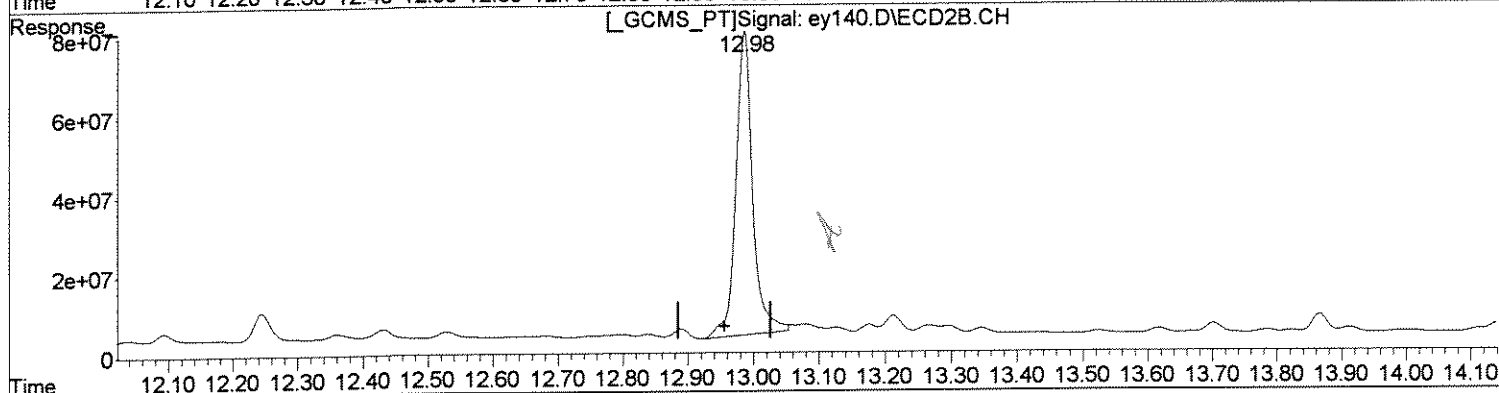
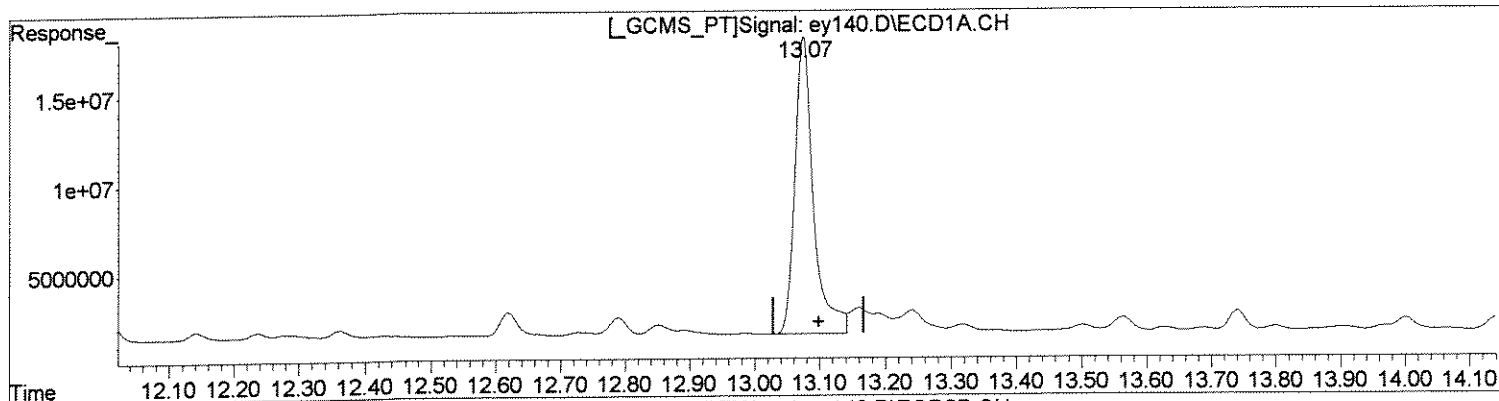
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey140.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 7:59 pm
Operator : M.PEDRO
Sample : 1113429 1.0
Misc : 07/01/08 212 ensr 8081 r44650
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:58:10 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.07min 14.641ug/l
response 333255206

(9) Heptachlor E #2 (tc)
12.98min 16.841ug/l m
response 1353982281

MP
7/17

MP
7/17

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY140.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 7:59 pm
 Operator : M.PEDRO
 Sample : 1113429 1.0
 Misc : 07/01/08 212 ensr 8081 r44650
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:58:10 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	1588.1E6	6172.0E6	78.696	76.273
Spiked Amount	100.000	Range 30 - 150	Recovery =		78.70%	76.27%
25) S SURR2,Decachloro	17.60	17.85	1415.4E6	4713.4E6	81.041	85.582
Spiked Amount	100.000	Range 30 - 150	Recovery =		81.04%	85.58%
Target Compounds						
2) TC HEXACHLORO BENZEN	10.13	10.14	7164454	31640217	0.244	0.260
3) tc alpha-BHC	10.42	10.39	6473584	66516987	0.209	0.560 #
4) tcm gamma-BHC (L	10.99	10.96	4131546	30892617	0.146	0.294 #
5) tcm Heptachlor	11.72	0.00	14045440	0	0.503	N.D. #
6) tcm Aldrin	0.00	12.09	0	80209874	N.D.	0.881 #
7) tc beta-BHC	11.11	0.00	26384732	0	2.298	N.D. #
8) tc delta-BHC	11.38	11.57	16145125	99583531	0.594	0.965 #
9) tc Heptachlor E	13.07	0.00	333.3E6	0	14.641	N.D. #
10) tc alpha-Endosu	13.69	13.52	3691744	49879432	0.180	0.703 #
11) tc gamma-Chlord	0.00	13.21	0	111.7E6	N.D.	1.362 #
13) tc 4,4'-DDE	13.56	13.70	17127135	85087155	0.786	1.110 #
14) tcm Dieldrin	0.00	13.91	0	42328160	N.D.	0.541 #
15) tcm Endrin	14.40	14.34	16260577	22970639	0.785	0.341 #
16) tc KEPONE	0.00	14.53	0	11441972	N.D.	0.498 #
17) tc beta-Endosul	0.00	14.66	0	40995147	N.D.	0.639 #
18) tc 4,4'-DDD	14.47	14.53	2839068	11441972	0.158	0.184
19) tcm 4,4'-DDT	0.00	14.96	0	78167128	N.D.	1.193 #
20) tc Endrin Aldeh	15.36	15.18	2921759	36647664	0.199	0.747 #
22) tc Methoxychlor	0.00	15.92	0	4526164	N.D.	0.156 #
24) tc Endrin Keton	0.00	16.31	0	12778920	N.D.	0.204 #
26) L8C Toxaphene	14.82	0.00	20845323	0	52.262	N.D. #
27) L8C Toxaphene{2}	0.00	15.08	0	16138532	N.D.	17.889 #
28) L8C Toxaphene{3}	0.00	15.18	0	36647664	N.D.	19.604 #
30) L8C Toxaphene{5}	16.55	16.68	15836757	9051731	23.793	4.012 #
Sum Toxaphene			36682080	61837926	76.054	41.504
Average Toxaphene					38.027	13.835



Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY140.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 7:59 pm
 Operator : M.PEDRO
 Sample : 1113429 1.0
 Misc : 07/01/08 212 ensr 8081 r44650
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:58:10 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

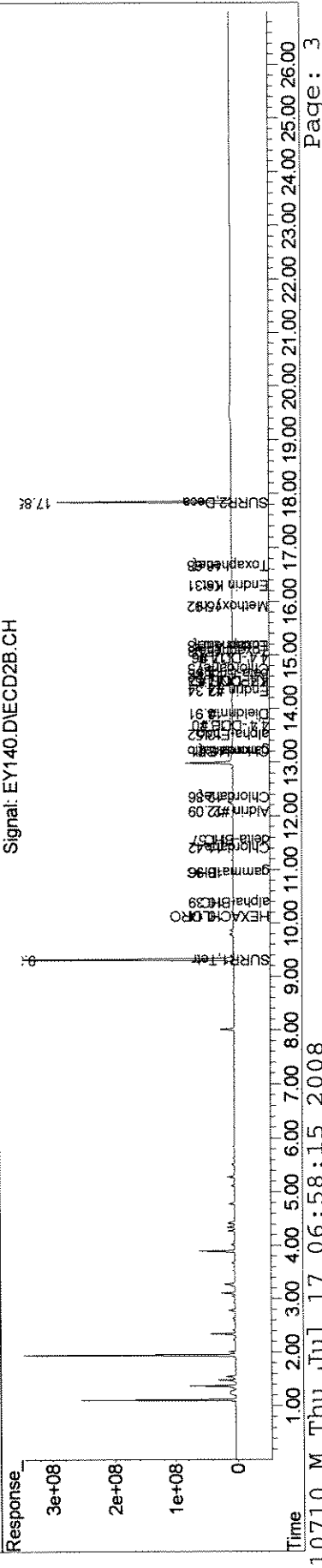
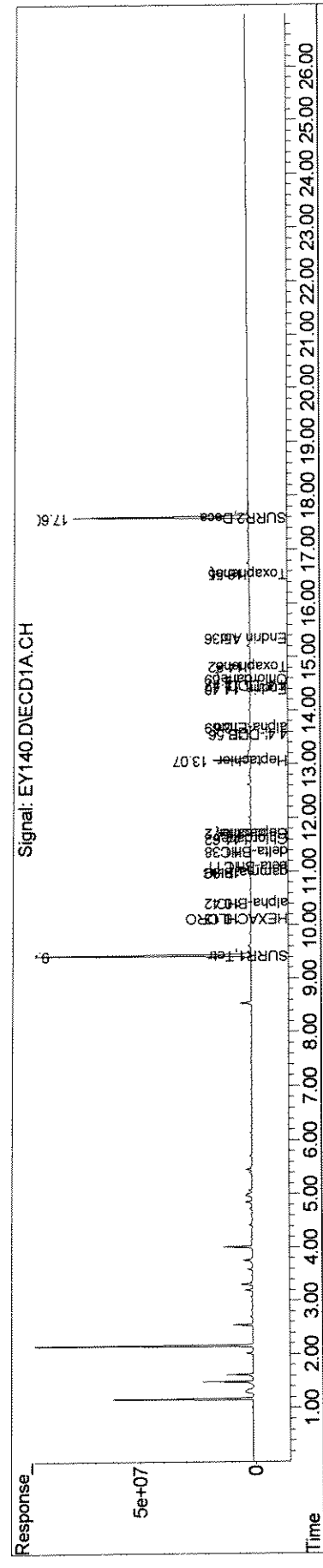
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) L9C Chlordane	11.62	11.42	5126138	19324087	6.430	5.976
32) L9C Chlordane {2}	11.72	0.00	14045440	0	12.468	N.D. #
33) L9C Chlordane {3}	0.00	12.36	0	65733902	N.D.	18.363 #
34) L9C Chlordane {4}	0.00	13.21	0	111.7E6	N.D.	11.150 #
35) L9C Chlordane {5}	14.59	14.75	4614502	7800757	4.939	2.211 #
Sum Chlordane			23786080	204.6E6	23.836	37.701
Average Chlordane					7.945	9.425

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : EY140.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 7:59 pm
Operator : M.PEDRO
Sample : 1113429 1.0
Misc : 07/01/08 212 ensr 8081 r44650
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:58:10 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01250

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-68B

Date Sampled : 06/27/08 10:00 Order #: 1113430 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650 Analytical Run 164027

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 07/01/08		
DATE ANALYZED	: 07/16/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.054	0.054 U	UG/L
ALPHA-BHC	0.054	0.21	UG/L
BETA-BHC	0.054	0.054 U	UG/L
GAMMA-BHC	0.054	0.054 U	UG/L
DELTA-BHC	0.054	0.054 U	UG/L
ALPHA-CHLORDANE	0.054	0.054 U	UG/L
GAMMA-CHLORDANE	0.054	0.054 U	UG/L
CHLORDANE	0.27	0.27 U	UG/L
4,4'-DDE	0.054	0.054 U	UG/L
4,4'-DDT	0.054	0.054 U	UG/L
DIELDRIN	0.11	0.11 U	UG/L
ALPHA-ENDOSULFAN	0.054	0.054 U	UG/L
BETA-ENDOSULFAN	0.11	0.11 U	UG/L
ENDOSULFAN SULFATE	0.11	0.11 U	UG/L
ENDRIN	0.054	0.054 U	UG/L
ENDRIN ALDEHYDE	0.11	0.11 U	UG/L
ENDRIN KETONE	0.11	0.11 U	UG/L
HEPTACHLOR	0.054	0.054 U	UG/L
HEPTACHLOR EPOXIDE	0.054	0.064	UG/L
HEXACHLOROBENZENE	0.054	0.054 U	UG/L
METHOXYCHLOR	0.54	0.54 U	UG/L
4,4'-TDE (DDD)	0.054	0.054 U	UG/L
TOXAPHENE	1.1	1.1 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	105	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	82	%

Data Path : J:\ACQUADATA\6890D\DATA\071608\
 Data File : ey141.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 8:35 pm
 Operator : M.PEDRO
 Sample : 1113430 1.0
 Misc : 07/01/08 184 ensr 8081 r44650
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:51:47 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

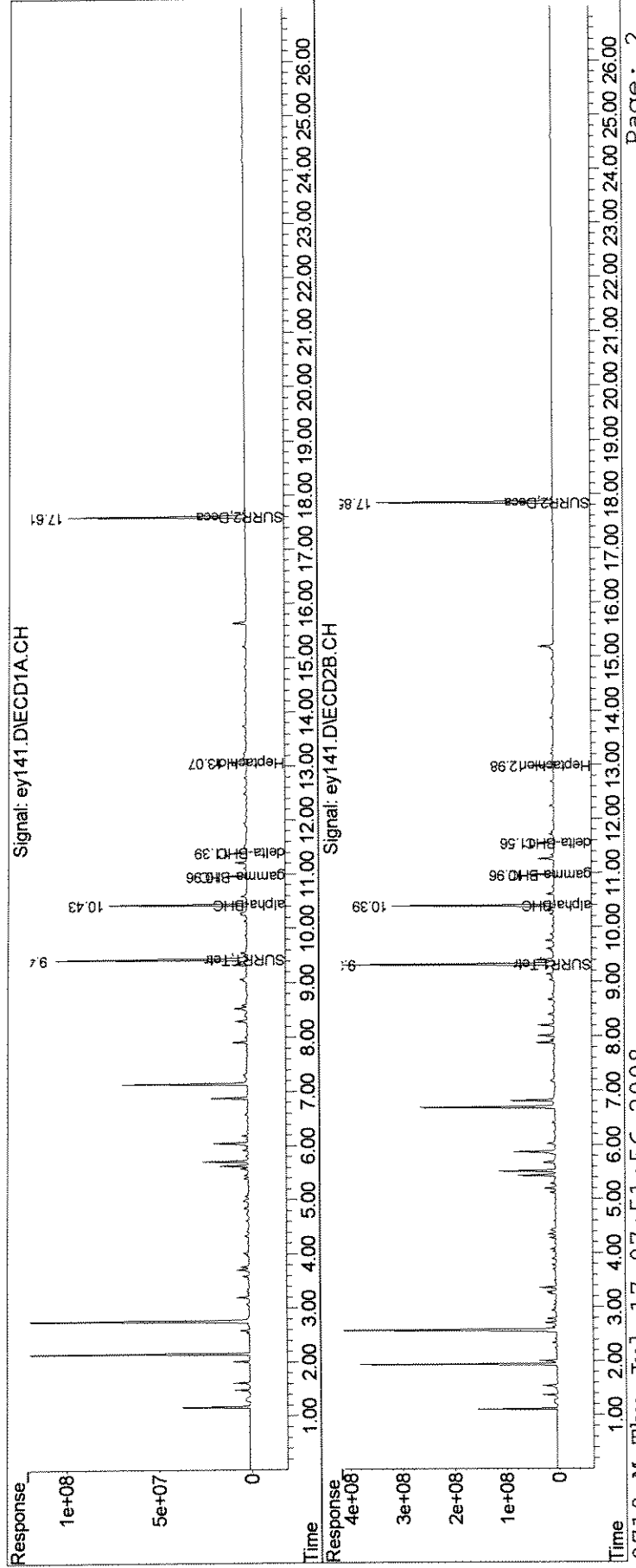
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	1652.5E6	6255.6E6	81.887	77.306
Spiked Amount	100.000	Range	30 - 150	Recovery	=	81.89% 77.31%
25) S SURR2,Decachloro	17.61	17.85	1709.5E6	5762.3E6	97.880	104.627
Spiked Amount	100.000	Range	30 - 150	Recovery	=	97.88% 104.63%
Target Compounds						
3) tc alpha-BHC	10.43	10.39	1163.7E6	4570.4E6	37.642	38.512
4) tcm gamma-BHC (L	10.96	10.96	178.7E6	791.1E6	6.337	7.529
8) tc delta-BHC	11.40	11.56	112.6E6	503.0E6	4.140	4.872
9) tc Heptachlor E	13.07	12.98	228.8E6	951.9E6	10.050	11.840m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey141.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 8:35 pm
 Operator : M.PEDRO
 Sample : 1113430 1.0
 Misc : 07/01/08 184 ensr 8081 r44650
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:51:47 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

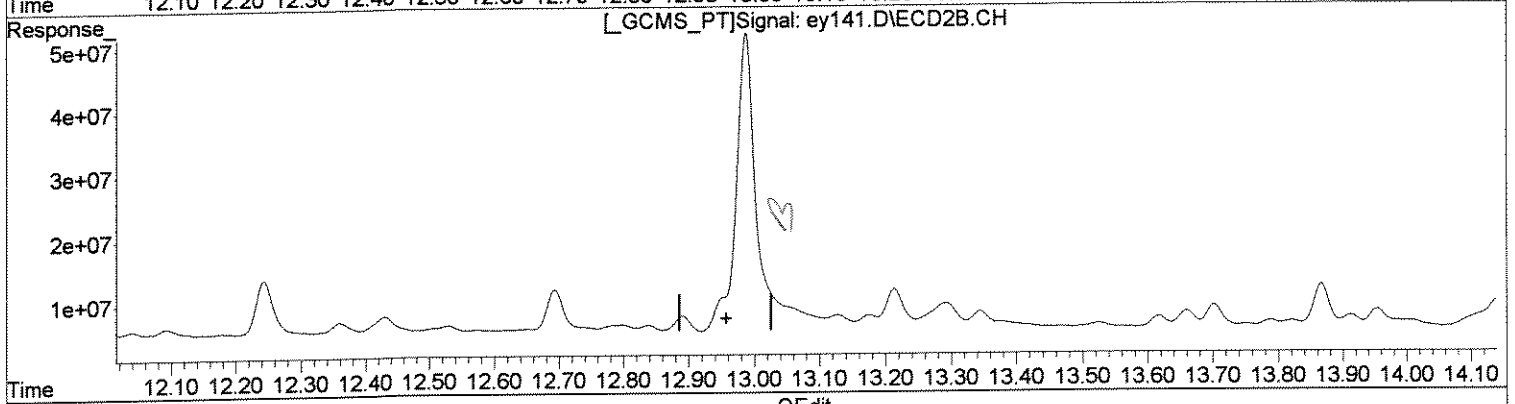
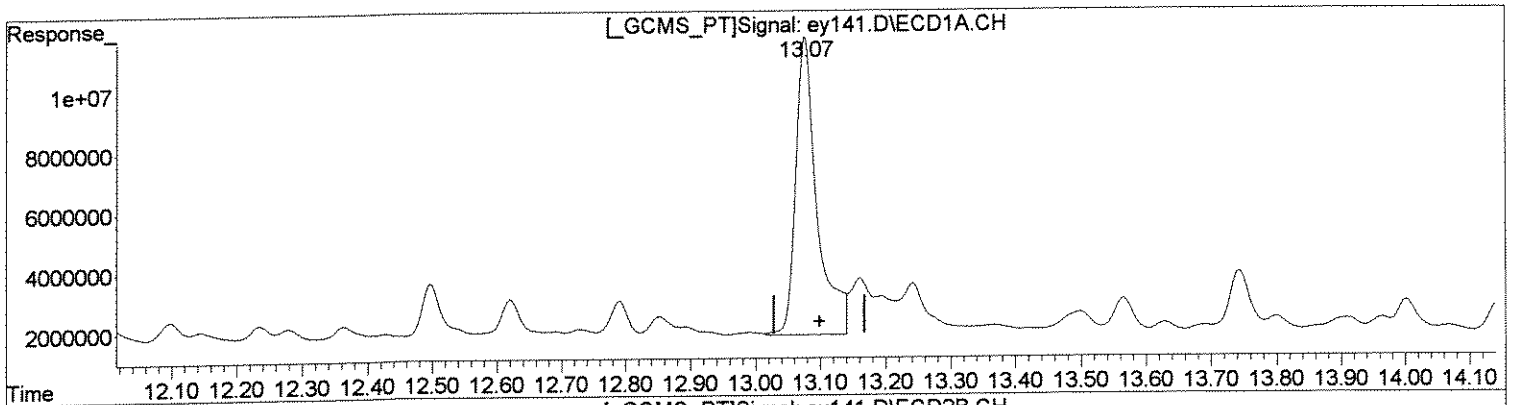


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey141.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 8:35 pm
Operator : M.PEDRO
Sample : 1113430 1.0
Misc : 07/01/08 184 ensr 8081 r44650
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:58:17 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
13.07min 10.050ug/l
response 228751293

ME

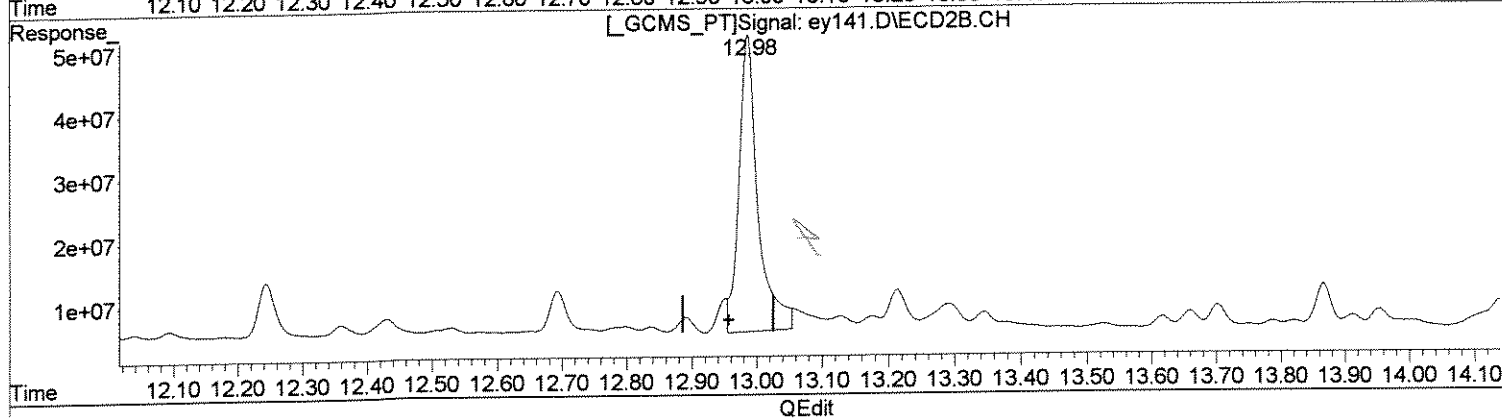
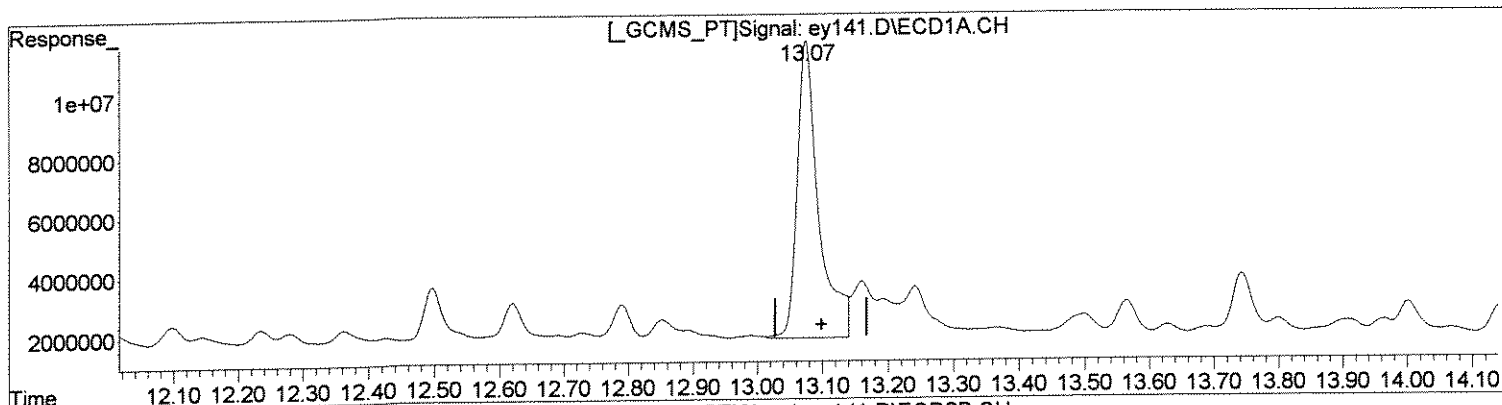
(9) Heptachlor E #2 (tc)
0.00min 0.000ug/l
response 0

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey141.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 8:35 pm
Operator : M.PEDRO
Sample : 1113430 1.0
Misc : 07/01/08 184 ensr 8081 r44650
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:58:17 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.07min 10.050ug/l
response 228751293

(9) Heptachlor E #2 (tc)
12.98min 11.840ug/l m
response 951890483

M.P.

7/17

(+) = Expected Retention Time

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY141.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 8:35 pm
 Operator : M.PEDRO
 Sample : 1113430 1.0
 Misc : 07/01/08 184 ensr 8081 r44650
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:58:17 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S SURR1,Tetrac	9.43	9.32	1652.5E6	6255.6E6	81.887	77.306
Spiked Amount	100.000	Range 30 - 150	Recovery =		81.89%	77.31%
25) S SURR2,Decachloro	17.61	17.85	1709.5E6	5762.3E6	97.880	104.627
Spiked Amount	100.000	Range 30 - 150	Recovery =		97.88%	104.63%

Target Compounds

2) TC HEXACHLOROBENZEN	10.13	0.00	28838943	0	0.981	N.D.	#
3) tc alpha-BHC	10.43	10.39	1163.7E6	4570.4E6	37.642	38.512	
4) tcm gamma-BHC (L	10.96	10.96	178.7E6	791.1E6	6.337	7.529	
5) tcm Heptachlor	11.72	0.00	7704752	0	0.276	N.D.	#
6) tcm Aldrin	0.00	12.09	0	93956655	N.D.	1.031	#
7) tc beta-BHC	11.11	11.12	44479009	76840647	3.873	1.703	#
8) tc delta-BHC	11.40	11.56	112.6E6	503.0E6	4.140	4.872	
9) tc Heptachlor E	13.07	0.00	228.8E6	0	10.050	N.D.	#
10) tc alpha-Endosu	13.69	13.52	5060689	74530373	0.247	1.050	#
11) tc gamma-Chlord	0.00	13.21	0	163.5E6	N.D.	1.994	#
12) tc alpha-Chlord	13.50	0.00	26508544	0	1.239	N.D.	#
13) tc 4,4'-DDE	13.56	13.66	25338025	68901796	1.163	0.899	
14) tcm Dieldrin	0.00	13.91	0	49510584	N.D.	0.633	#
15) tcm Endrin	14.40	14.34	36658492	40326762	1.769	0.599	#
16) tc KEPONE	0.00	14.52	0	24004354	N.D.	1.044	#
17) tc beta-Endosul	14.74	14.66	2761771	68538633	0.149	1.068	#
18) tc 4,4'-DDD	14.47	14.52	5447248	24004354	0.303	0.386	#
19) tcm 4,4'-DDT	14.85	14.96	10992561	130.3E6	0.574	1.989	#
20) tc Endrin Aldeh	15.36	15.14	4933323	123.7E6	0.336	2.522	#
21) tc Endosulfan S	15.99	15.55	7776679	24928484	0.462	0.436	
24) tc Endrin Keton	0.00	16.30	0	1942403	N.D.	0.031	#
26) L8C Toxaphene	14.82	14.80	24000941	21175390	60.173	10.944	#
27) L8C Toxaphene {2}	0.00	15.09	0	25361029	N.D.	28.111	#
28) L8C Toxaphene {3}	15.50	15.18	2817658	541.2E6	4.186	289.518	#
30) L8C Toxaphene {5}	16.55	16.68	12299071	10648496	18.478	4.719	#
Sum Toxaphene			39117669	598.4E6	82.837	333.293	

Data Path : J:\ACQUADATA\6890D\DATA\071608\
 Data File : EY141.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 8:35 pm
 Operator : M.PEDRO
 Sample : 1113430 1.0
 Misc : 07/01/08 184 ensr 8081 r44650
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:58:17 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

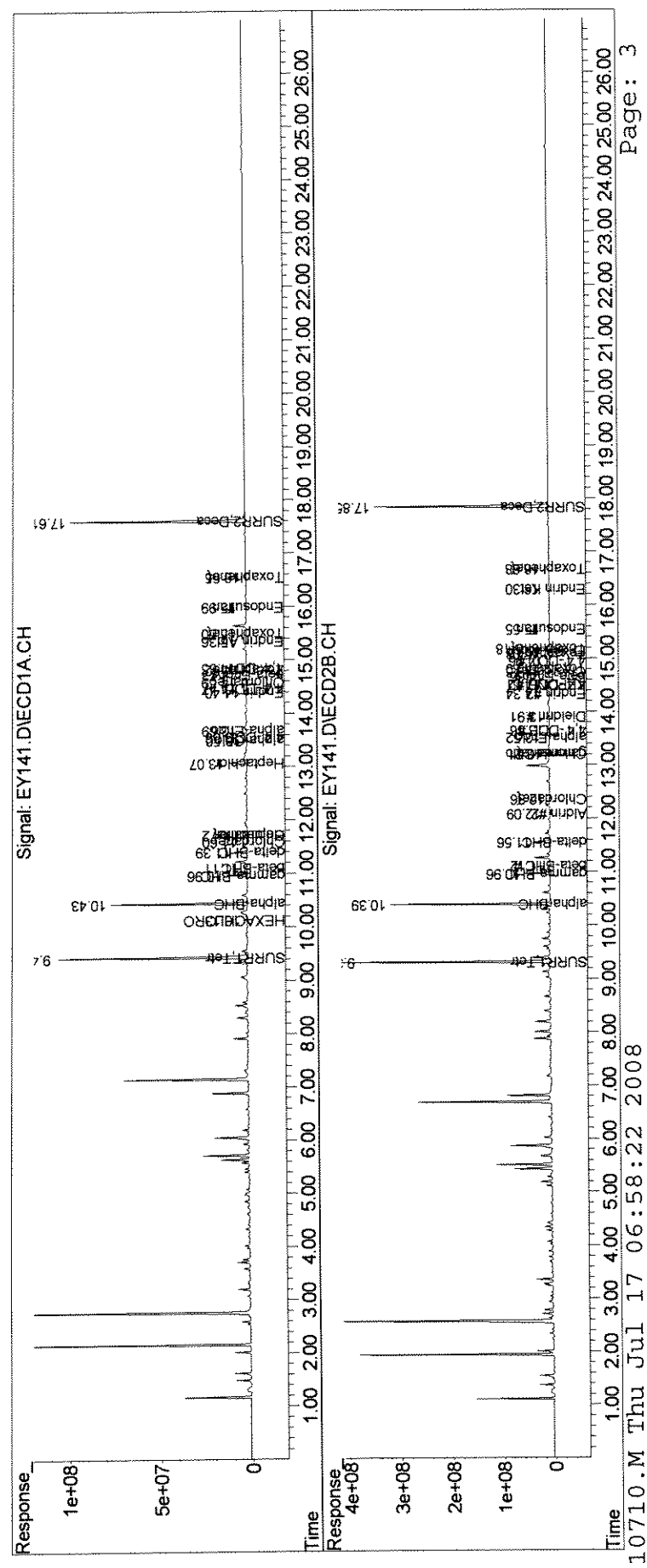
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average Toxaphene					27.612	83.323
31) L9C Chlordane	11.60	0.00	5986492	0	7.509	N.D. #
32) L9C Chlordane {2}	11.72	0.00	7704752	0	6.839	N.D. #
33) L9C Chlordane {3}	0.00	12.36	0	90926367	N.D.	25.400 #
34) L9C Chlordane {4}	0.00	13.21	0	163.5E6	N.D.	16.320 #
35) L9C Chlordane {5}	14.59	14.76	9744906	14481941	10.429	4.105 #
Sum Chlordane			23436150	269.0E6	24.777	45.826
Average Chlordane					8.259	15.275

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : EY141.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 8:35 pm
Operator : M.PEDRO
Sample : 1113430 1.0
Misc : 07/01/08 184 ensr 8081 r44650
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:58:17 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01258

PESTICIDES
STANDARDS DATA

**Calibration Level Concentrations
Columbia Analytical Services**

Analyte	Calib Mix	Level 1 ppb	Level 2 ppb	Level 3 ppb	Level 4 ppb	Level 5 ppb
alpha-BHC	Ind A	80	40	20	10	5
gamma-BHC	Ind A	80	40	20	10	5
DDD	Ind A	160	80	40	20	10
DDT	Ind A	160	80	40	20	10
Dieldrin	Ind A	160	80	40	20	10
alpha-Endosulfan	Ind A	80	40	20	10	5
Endrin	Ind A	160	80	40	20	10
Heptachlor	Ind A	80	40	20	10	5
Methoxychlor	Ind A	800	400	200	100	50
Surr.-DCB	Ind A	160	80	40	20	10
Surr.-TCMX	Ind A	80	40	20	10	5
Aldrin	Ind B	80	40	20	10	5
beta-BHC	Ind B	80	40	20	10	5
delta-BHC	Ind B	80	40	20	10	5
DDE	Ind B	160	80	40	20	10
alpha-Chlordane	Ind B	80	40	20	10	5
gamma-Chlordane	Ind B	80	40	20	10	5
beta-Endosulfan	Ind B	160	80	40	20	10
Endosulfan Sulfate	Ind B	160	80	40	20	10
Endrin Aldehyde	Ind B	160	80	40	20	10
Endrin Ketone	Ind B	160	80	40	20	10
Heptachlor Epoxide	Ind B	80	40	20	10	5
Surr.-DCB	Ind B	160	80	40	20	10
Surr.-TCMX	Ind B	80	40	20	10	5
PCB 1016	1016/1260	1000	750	500	750	100
PCB 1221	1221	1000		500		100
PCB 1232	1232	1000		500		100
PCB 1242	1242	1000		500		100
PCB 1248	1248	1000		500		100
PCB 1254	1254	1000		500		100
PCB 1260	1016/1260	1000	750	500	750	100
Chlordane	Chlor	500	250	100	50	25
Toxaphene	Tox	1000	750	500	250	100
Hexachlorobenzene	K/F/HCB	100	80	50	20	5
Kepone	K/F/HCB	2500	2000	1500	1000	500
Famphur	K/F/HCB	500	400	300	200	100

Pesticide Initial Calibration of Multicomponent Analytes

Lab Name: Columbia Analytical Services Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
 Instrument ID: 6890D Date Analyzed: 6/2/2008

Compound	GC Column(1) <u>STx-CLP</u> (ID): <u>0.32mm 30</u>			GC Column(2) <u>STx-CLPII</u> (ID): <u>0.32mm 30</u>		
	RT	RT Window From To		RT	RT Window From To	
SURR1,Tetrac	9.28	9.23	9.33	9.06	9.01	9.11
HEXACHLOROBEN	9.98	9.91	10.05	9.87	9.80	9.94
alpha-BHC	10.28	10.23	10.33	10.12	10.07	10.17
gamma-BHC (L	10.81	10.76	10.86	10.68	10.63	10.73
Heptachlor	11.55	11.50	11.60	11.34	11.29	11.39
Aldrin	12.01	11.96	12.06	11.81	11.76	11.86
beta-BHC	10.96	10.91	11.01	10.84	10.79	10.89
delta-BHC	11.24	11.19	11.29	11.27	11.22	11.32
Heptachlor E	12.92	12.85	12.99	12.64	12.57	12.71
alpha-Endosu	13.49	13.42	13.56	13.18	13.11	13.25
gamma-Chlord	13.10	13.03	13.17	12.91	12.84	12.98
alpha-Chlord	13.29	13.22	13.36	13.11	13.04	13.18
4,4'-DDE	13.40	13.33	13.47	13.36	13.29	13.43
Dieldrin	13.84	13.77	13.91	13.57	13.50	13.64
Endrin	14.18	14.11	14.25	14.00	13.93	14.07
KEPONE	14.24	14.17	14.31	14.16	14.09	14.23
beta-Endosul	14.52	14.45	14.59	14.30	14.23	14.37
4,4'-DDD	14.27	14.20	14.34	14.17	14.10	14.24
4,4'-DDT	14.67	14.60	14.74	14.61	14.54	14.68
Endrin Aldeh	15.15	15.08	15.22	14.79	14.72	14.86
Endosulfan S	15.79	15.72	15.86	15.19	15.12	15.26
Methoxychlor	15.37	15.30	15.44	15.59	15.52	15.66
FAMPHUR	16.08	16.01	16.15	15.31	15.24	15.38
Endrin Keton	16.19	16.12	16.26	15.96	15.89	16.03
SURR2,Decachlorobip	17.42	17.32	17.52	17.50	17.40	17.60
Toxaphene	14.60	14.53	14.67	14.42	14.35	14.49
Toxaphene	14.68	14.61	14.75	14.70	14.63	14.77
Toxaphene	15.29	15.22	15.36	14.80	14.73	14.87

Pesticide Initial Calibration of Multicomponent Analytes

Lab Name: Columbia Analytical Services Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
 Instrument ID: 6890D Date Analyzed: 6/2/2008

GC Column(1) STx-CLP (ID): 0.32mm 30 GC Column(2) STx-CLPII (ID): 0.32mm 30

Compound	RT	RT Window		RT	RT Window	
		From	To		From	To
Toxaphene	16.15	16.08	16.22	16.09	16.02	16.16
Toxaphene	16.35	16.28	16.42	16.33	16.26	16.40
Chlordane	11.43	11.36	11.50	11.12	11.05	11.19
Chlordane	11.55	11.48	11.62	11.34	11.27	11.41
Chlordane	12.22	12.15	12.29	12.05	11.98	12.12
Chlordane	13.10	13.03	13.17	12.90	12.83	12.97
Chlordane	14.41	14.34	14.48	14.37	14.30	14.44

Response Factor Report 6890D

Method Path : J:\ACQUDATA\6890D\METHODS\
 Method File : 80810602.M
 Title : 608/8081A PESTICIDES
 Last Update : Tue Jun 03 09:00:21 2008
 Response Via : Initial Calibration

Calibration Files

1 =ex660.D 2 =ex659.D 3 =ex658.D
 4 =ex657.D 5 =ex656.D

Compound	1	2	3	4	5	Avg	%RSD
1) S SURR1,Tetrac	1.925	2.130	1.853	1.779	1.729	1.883	E7 8.31
2) TC HEXACHLOROBENZENE	2.652	2.592	2.667	2.754	2.916	2.716	E7 4.64
3) tc alpha-BHC	3.165	3.502	3.000	2.771	2.578	3.003	E7 11.89
4) tcm gamma-BHC (L	2.852	3.162	2.745	2.566	2.420	2.749	E7 10.34
5) tcm Heptachlor	2.730	3.050	2.681	2.541	2.453	2.691	E7 8.51
6) tcm Aldrin	2.583	2.605	2.471	2.338	2.310	2.461	E7 5.52
7) tc beta-BHC	1.157	1.170	1.155	1.116	1.175	1.155	E7 2.02
8) TC delta-BHC	2.951	2.956	2.812	2.569	2.539	2.766	E7 7.30
9) tc Heptachlor E	2.345	2.392	2.302	2.212	2.269	2.304	E7 3.02
10) tc alpha-Endosu	2.091	2.328	2.040	1.940	1.904	2.060	E7 8.12
11) tc gamma-Chlord	2.389	2.400	2.275	2.145	2.187	2.279	E7 5.06
12) tc alpha-Chlord	2.325	2.337	2.227	2.115	2.170	2.235	E7 4.30
13) tc 4,4'-DDE	2.323	2.391	2.274	2.122	2.131	2.248	E7 5.27
14) tcm Dieldrin	2.328	2.646	2.344	2.212	2.111	2.328	E7 8.65
15) tcm Endrin	2.098	2.377	2.095	1.965	1.895	2.086	E7 8.83
16) tc KEPONE	6.931	6.892	6.829	5.787	4.853	6.258	E6 14.69
17) tc beta-Endosul	1.999	2.042	1.988	1.872	1.928	1.966	E7 3.39
18) tc 4,4'-DDD	1.935	2.170	1.875	1.723	1.701	1.881	E7 10.08
19) tcm 4,4'-DDT	2.071	2.268	2.017	1.879	1.780	2.003	E7 9.34
20) tc Endrin Aldeh	1.539	1.564	1.482	1.393	1.413	1.478	E7 5.09
21) tc Endosulfan S	1.859	1.899	1.824	1.720	1.767	1.814	E7 3.92
22) tc Methoxychlor	0.930	1.078	0.991	0.970	0.966	0.987	E7 5.64
23) tc FAMPHUR	1.310	1.286	1.324	1.268	1.311	1.300	E7 1.72
24) tc Endrin Keton	2.131	2.180	2.099	1.982	2.050	2.088	E7 3.65
25) S SURR2,Decachlorobiphe	1.699	1.885	1.681	1.626	1.649	1.708	E7 6.02
26) L8C Toxaphene	4.703	4.605	4.136	4.256	3.181	4.176	E5 14.46
27) L8C Toxaphene {2}	3.919	4.111	3.444	4.126	3.146	3.749	E5 11.62
28) L8C Toxaphene {3}	7.901	7.721	6.844	6.925	6.366	7.151	E5 8.98
29) L8C Toxaphene {4}	0.949	1.070	0.823	0.838	0.764	0.889	E6 13.68
30) L8C Toxaphene {5}	7.640	7.430	6.483	6.462	5.743	6.752	E5 11.52
31) L9C Chlordane	8.010	7.729	7.578	7.519	7.426	7.652	E5 2.98
32) L9C Chlordane {2}	1.150	1.112	1.082	1.057	1.038	1.088	E6 4.08
33) L9C Chlordane {3}	0.979	0.974	0.991	1.011	1.043	1.000	E6 2.80
34) L9C Chlordane {4}	2.935	2.854	2.742	2.657	2.497	2.737	E6 6.25
35) L9C Chlordane {5}	0.981	0.952	0.977	0.887	1.004	0.960	E6 4.68

Signal #2 Calibration Files

1 =ex660.D 2 =ex659.D 3 =ex658.D
 4 =ex657.D 5 =ex656.D

Compound	1	2	3	4	5	Avg	%RSD
1) S SURR1,Tetrac	5.873	6.681	6.063	5.964	5.927	6.102	E7 5.43
2) TC HEXACHLOROBENZENE	8.231	8.165	8.560	9.084	9.957	8.800	E7 8.43
3) tc alpha-BHC	0.916	1.039	0.928	0.888	0.853	0.925	E8 7.59
4) tcm gamma-BHC (L	8.206	9.266	8.201	7.849	7.558	8.216	E7 7.87

Response Factor Report 6890D

Method Path : J:\ACQUDATA\6890D\METHODS\
 Method File : 80810602.M
 Title : 608/8081A PESTICIDES
 Last Update : Tue Jun 03 09:00:21 2008
 Response Via : Initial Calibration

Calibration Files

1 =ex660.D 2 =ex659.D 3 =ex658.D
 4 =ex657.D 5 =ex656.D

Compound	1	2	3	4	5	Avg	%RSD
5) tcm Heptachlor	7.485	8.719	8.031	7.896	7.800	7.986	E7 5.71
6) tcm Aldrin	7.282	7.644	7.573	7.427	7.546	7.495	E7 1.90
7) tc beta-BHC	3.525	3.615	3.538	3.462	3.696	3.567	E7 2.52
8) tc delta-BHC	8.469	8.703	8.429	7.926	8.020	8.309	E7 3.92
9) tc Heptachlor E	6.361	6.741	6.790	6.728	6.977	6.719	E7 3.33
10) tc alpha-Endosu	5.664	6.526	5.993	5.824	5.787	5.959	E7 5.68
11) tc gamma-Chlord	6.880	7.129	7.015	6.792	7.046	6.972	E7 1.94
12) tc alpha-Chlord	6.545	6.788	6.665	6.460	6.749	6.642	E7 2.07
13) tc 4,4'-DDE	6.270	6.676	6.594	6.387	6.662	6.518	E7 2.77
14) tcm Dieldrin	6.061	7.117	6.606	6.464	6.379	6.525	E7 5.92
15) tcm Endrin	5.315	6.211	5.729	5.608	5.498	5.672	E7 5.95
16) tc KEPONE	1.928	1.783	1.838	1.656	1.349	1.711	E7 13.17
17) tc beta-Endosul	5.160	5.510	5.551	5.449	5.754	5.485	E7 3.92
18) tc 4,4'-DDD	5.097	5.821	5.220	4.961	4.717	5.163	E7 7.99
19) tcm 4,4'-DDT	5.425	6.182	5.522	5.232	5.039	5.480	E7 7.92
20) tc Endrin Aldeh	3.929	4.109	4.068	3.957	4.054	4.023	E7 1.91
21) tc Endosulfan S	4.806	5.055	5.011	4.872	5.073	4.963	E7 2.37
22) tc Methoxychlor	2.220	2.578	2.423	2.407	2.431	2.412	E7 5.29
23) tc FAMPHUR	3.166	3.056	3.265	3.147	3.260	3.179	E7 2.74
24) tc Endrin Keton	5.214	5.483	5.467	5.314	5.590	5.414	E7 2.75
25) S SURR2,Decachlorobiphe	4.261	4.836	4.330	4.192	4.206	4.365	E7 6.16
26) L8C Toxaphene	1.687	1.658	1.528	1.586	1.734	1.638	E6 5.01
27) L8C Toxaphene {2}	8.062	7.825	7.291	7.360	7.927	7.693	E5 4.51
28) L8C Toxaphene {3}	1.732	1.710	1.571	1.609	1.639	1.652	E6 4.10
29) L8C Toxaphene {4}	1.740	1.710	1.539	1.602	1.541	1.627	E6 5.77
30) L8C Toxaphene {5}	1.971	1.905	1.665	1.667	1.501	1.742	E6 11.06
31) L9C Chlordane	2.498	2.516	2.525	2.513	2.541	2.519	E6 0.62
32) L9C Chlordane {2}	3.444	3.458	3.442	3.385	3.372	3.420	E6 1.13
33) L9C Chlordane {3}	2.648	2.700	2.787	2.841	2.906	2.776	E6 3.76
34) L9C Chlordane {4}	8.009	8.075	8.004	7.850	7.629	7.913	E6 2.27
35) L9C Chlordane {5}	2.970	2.943	2.964	3.078	3.269	3.045	E6 4.46

(#) = Out of Range

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX656.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 9:37 am
 Operator : M.PEDRO
 Sample : indal
 Misc : initial cal
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:24:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	86472816	296.4E6	4.585	5.039
Spiked Amount	100.000	Range	30 - 150	Recovery	= 4.59%#	5.04%#
25) S SURR2,Decachloro	17.42	17.50	164.9E6	420.6E6	9.501	9.286
Spiked Amount	100.000	Range	30 - 150	Recovery	= 9.50%#	9.29%#
Target Compounds						
3) tc alpha-BHC	10.28	10.12	128.9E6	426.3E6	4.444	4.589
4) tcm gamma-BHC (L	10.81	10.68	121.0E6	377.9E6	4.546	4.587
5) tcm Heptachlor	11.55	11.34	122.6E6	390.0E6	4.624	4.840
10) tc alpha-Endosu	13.49	13.18	95185448	289.3E6	4.680	4.824
14) tcm Dieldrin	13.84	13.57	211.1E6	637.9E6	9.259	9.764
15) tcm Endrin	14.18	14.00	189.5E6	549.8E6	9.685	9.774
18) tc 4,4'-DDD	14.27	14.17	170.1E6	471.7E6	9.585	9.173
19) tcm 4,4'-DDT	14.67	14.61	178.0E6	503.9E6	9.283	9.185
22) tc Methoxychlor	15.37	15.59	483.0E6	1215.3E6	51.387	51.014
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

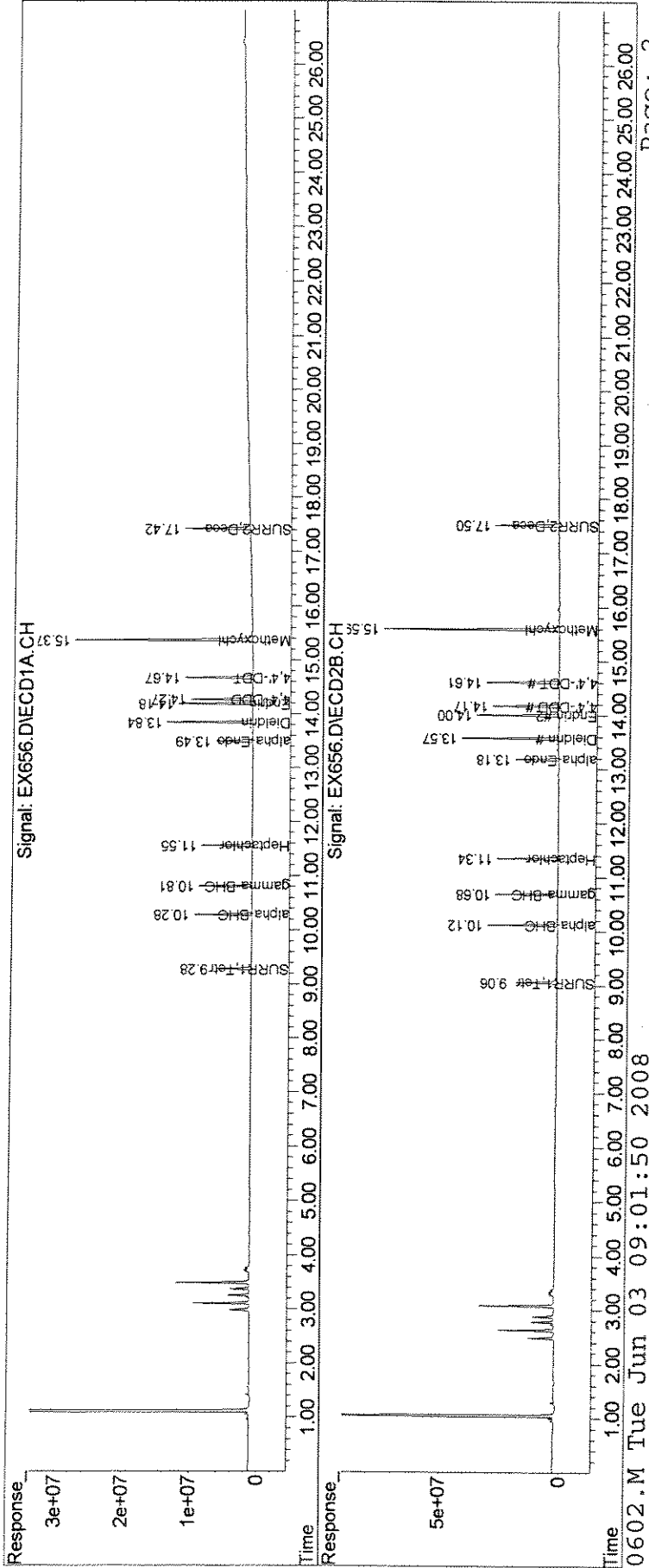
*up
4/3*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX656.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 9:37 am
Operator : M.PEDRO
Sample : indal
Misc : initial cal
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:24:45 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01266

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX657.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:12 am
 Operator : M.PEDRO
 Sample : indaml
 Misc : initial cal
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:26:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

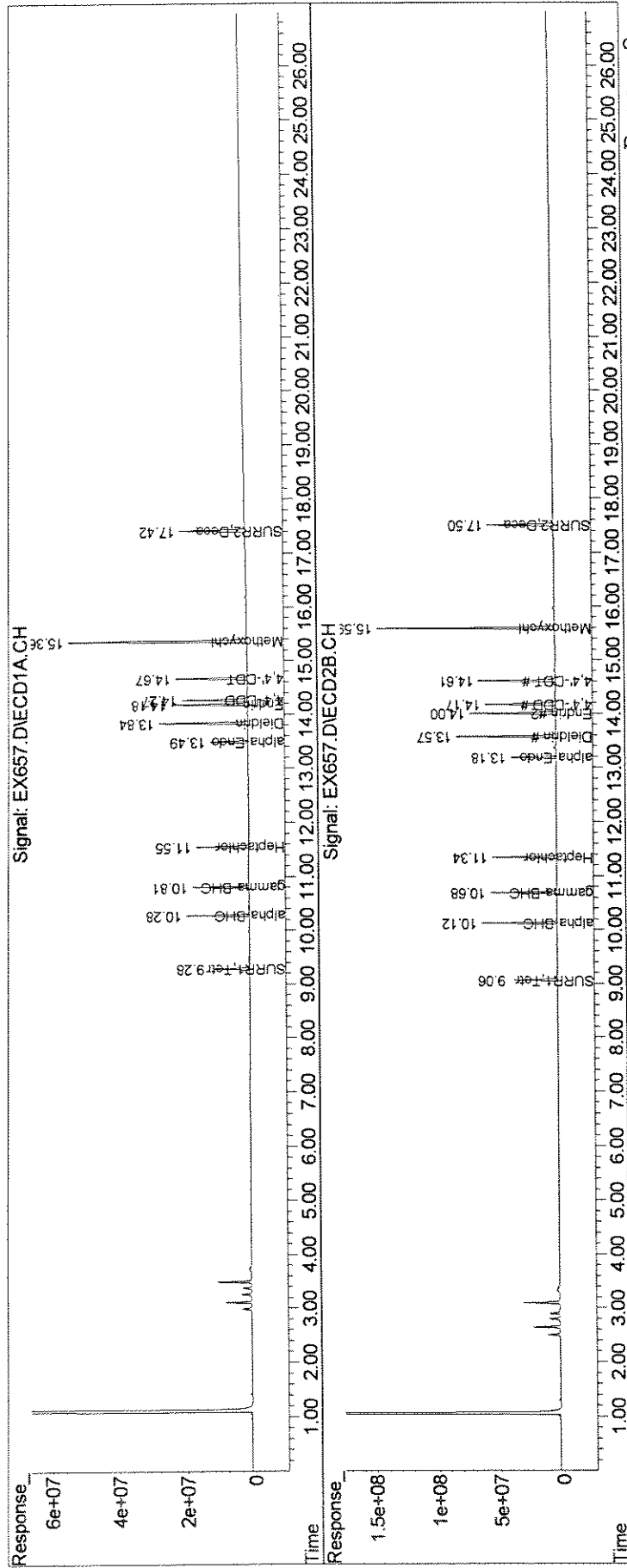
System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.06	177.9E6	596.4E6	9.432	10.139
Spiked Amount	100.000	Range 30 - 150	Recovery =		9.43%#	10.14%#
25) S SURR2,Decachloro	17.42	17.50	325.1E6	838.4E6	18.735m	18.512m
Spiked Amount	100.000	Range 30 - 150	Recovery =		18.73%#	18.51%#
Target Compounds						
3) tc alpha-BHC	10.28	10.12	277.1E6	887.7E6	9.555	9.556
4) tcm gamma-BHC (L	10.81	10.68	256.6E6	784.9E6	9.639	9.527
5) tcm Heptachlor	11.55	11.34	254.1E6	789.6E6	9.580	9.798
10) tc alpha-Endosu	13.49	13.18	194.0E6	582.4E6	9.536	9.711
14) tcm Dieldrin	13.84	13.57	442.3E6	1292.9E6	19.400	19.790
15) tcm Endrin	14.18	14.00	392.9E6	1121.5E6	20.080	19.937
18) tc 4,4'-DDD	14.27	14.17	344.6E6	992.2E6	19.419	19.298
19) tcm 4,4'-DDT	14.67	14.61	375.8E6	1046.3E6	19.593	19.074
22) tc Methoxychlor	15.37	15.59	969.8E6	2406.6E6	103.167	101.019
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX657.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:12 am
 Operator : M.PEDRO
 Sample : indaml
 Misc : initial cal
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:26:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



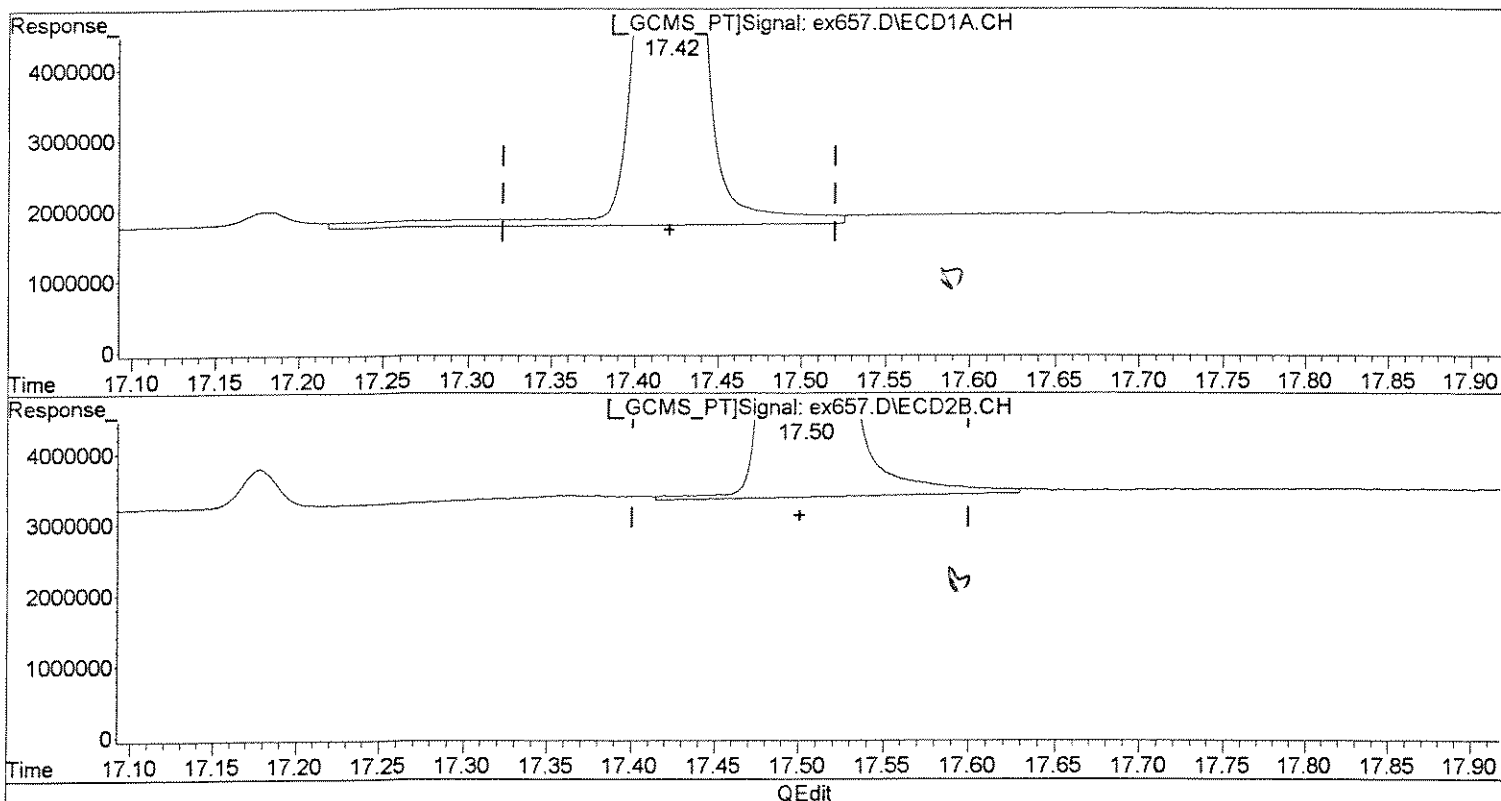
81258

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : ex657.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 10:12 am
Operator : M.PEDRO
Sample : indam1
Misc : initial cal
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:05:36 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURRE2,Decachlorobiphenyl (S)
17.42min 19.731ug/l
response 342426591

(25) SURRE2,Decachlorobiphenyl #2 (S)
17.50min 18.605ug/l
response 842638297

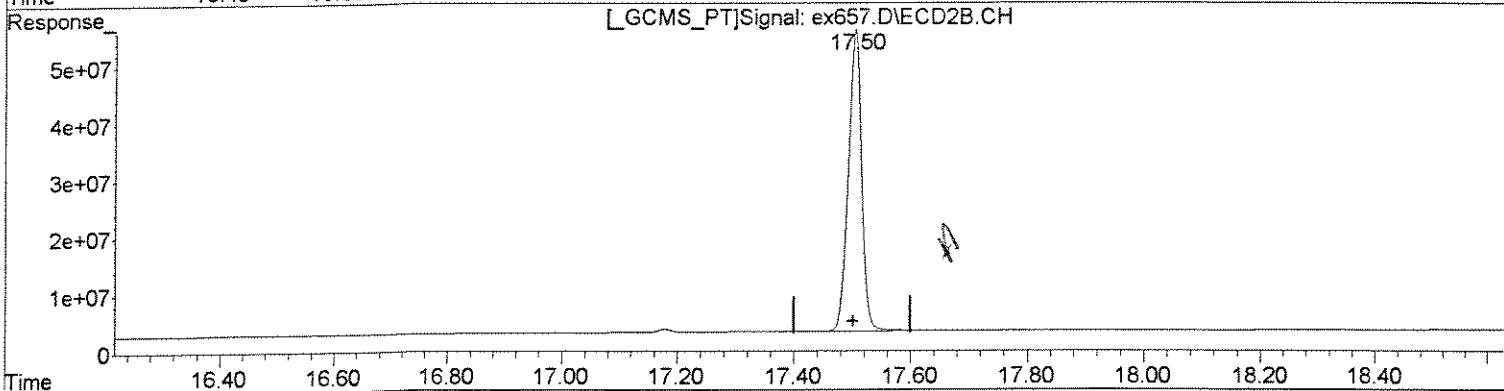
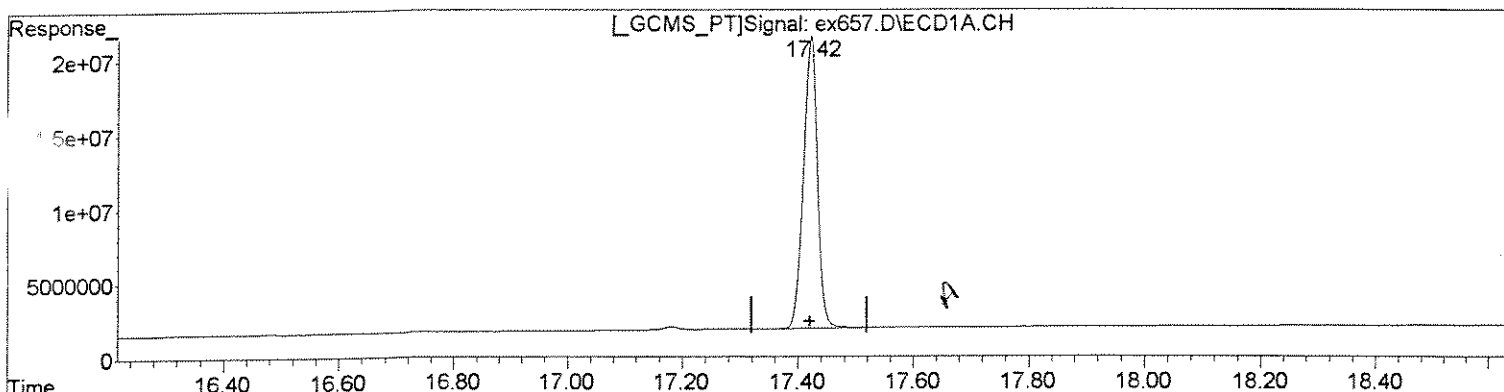
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : ex657.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 10:12 am
Operator : M.PEDRO
Sample : indam1
Misc : initial cal
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:05:36 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(25) SURR2,Decachlorobiphenyl (S)
17.42min 18.735ug/l m
response 325140171

(25) SURR2,Decachlorobiphenyl #2 (S)
17.50min 18.512ug/l m
response 838410306

Handwritten notes: 17.42/3 and 17.50/3

(+) = Expected Retention Time

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX658.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:48 am
 Operator : M.PEDRO
 Sample : indam
 Misc : initial cal
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:27:22 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	370.7E6	1212.5E6	19.656	20.616
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.66%#	20.62%#
25) S SURR2,Decachloro	17.42	17.50	672.5E6	1732.2E6	38.751	38.245
Spiked Amount	100.000	Range 30 - 150	Recovery =		38.75%	38.24%
Target Compounds						
3) tc alpha-BHC	10.28	10.12	600.0E6	1856.1E6	20.692	19.980
4) tcm gamma-BHC (L)	10.81	10.68	548.9E6	1640.1E6	20.622	19.908
5) tcm Heptachlor	11.55	11.34	536.2E6	1606.3E6	20.218	19.932
10) tc alpha-Endosu	13.49	13.18	407.9E6	1198.5E6	20.056	19.983
14) tcm Dieldrin	13.84	13.57	937.6E6	2642.6E6	41.122	40.450
15) tcm Endrin	14.18	14.00	838.1E6	2291.6E6	42.828	40.737
18) tc 4,4'-DDD	14.27	14.17	750.2E6	2087.8E6	42.269	40.606
19) tcm 4,4'-DDT	14.67	14.61	807.0E6	2209.0E6	42.078	40.267
22) tc Methoxychlor	15.37	15.59	1981.2E6	4846.0E6	210.767	203.411
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

MW 9/3

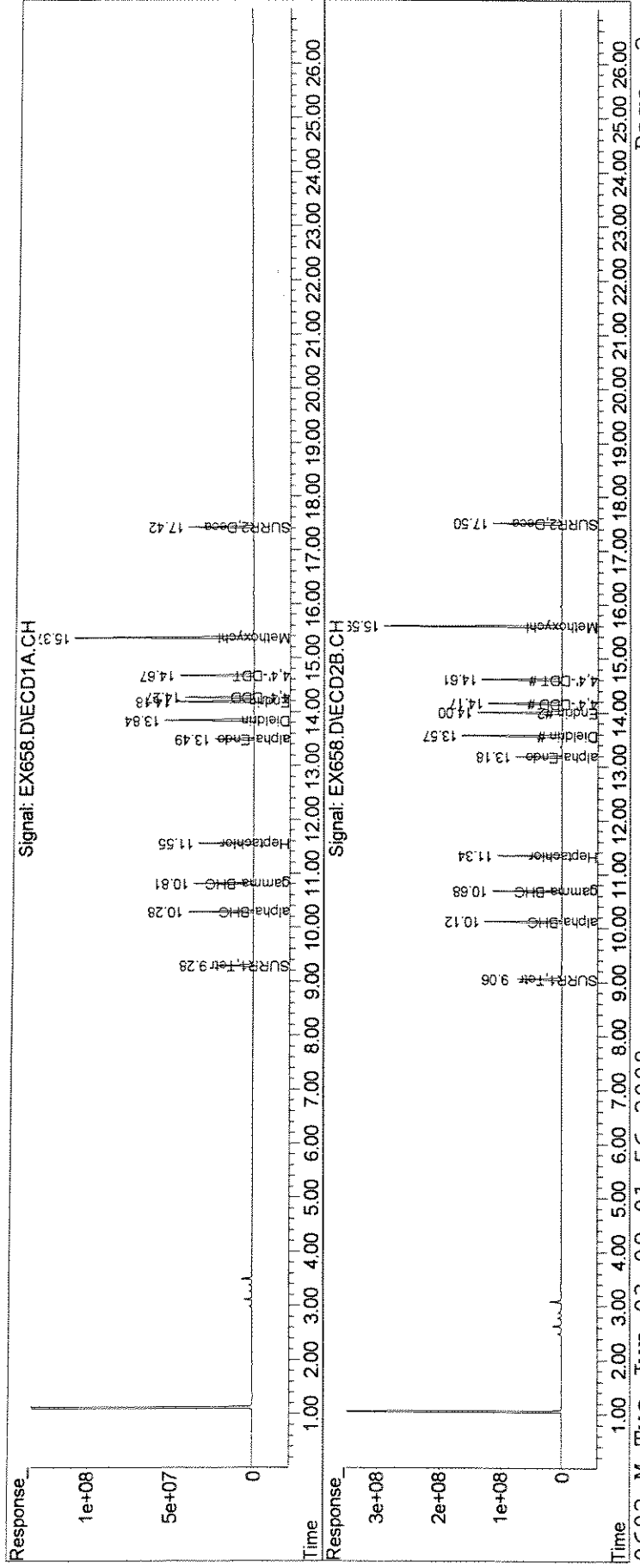
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX658.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 10:48 am
Operator : M.PEDRO
Sample : indam
Misc : initial cal
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:27:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01272

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX659.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 11:23 am
 Operator : M.PEDRO
 Sample : indamh
 Misc : initial cal
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:28:16 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

 System Monitoring Compounds

1) S SURR1,Tetrac	9.28	9.06	851.8E6	2672.6E6	45.169	45.439
Spiked Amount	100.000	Range	30 - 150	Recovery	=	45.17%
25) S SURR2,Decachloro	17.42	17.50	1507.9E6	3868.8E6	86.882	85.420
Spiked Amount	100.000	Range	30 - 150	Recovery	=	86.88%

Target Compounds

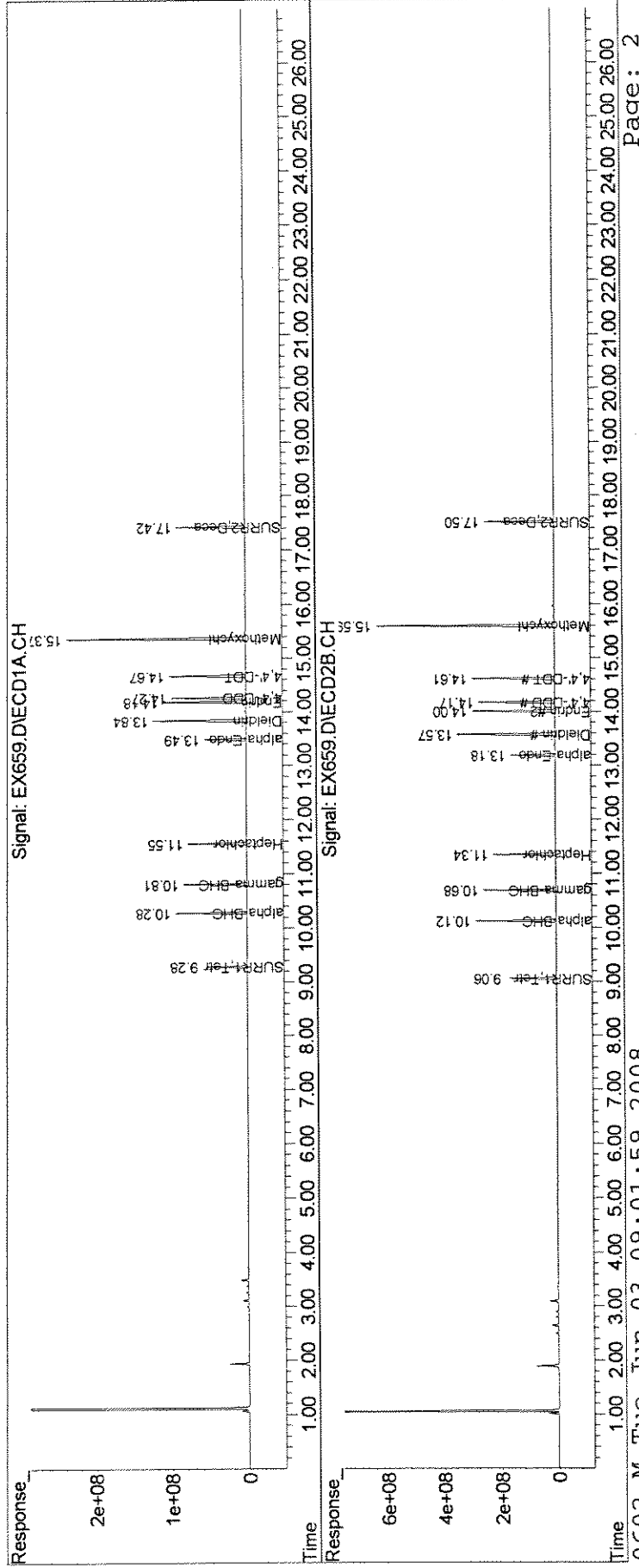
3) tc alpha-BHC	10.28	10.12	1400.6E6	4155.9E6	48.298	44.737
4) tcm gamma-BHC (L)	10.81	10.68	1264.8E6	3706.3E6	47.516	44.988
5) tcm Heptachlor	11.56	11.34	1220.0E6	3487.7E6	46.004	43.279
10) tc alpha-Endosu	13.49	13.19	931.1E6	2610.3E6	45.776	43.523
14) tcm Dieldrin	13.84	13.57	2117.0E6	5693.6E6	92.846	87.153
15) tcm Endrin	14.19	14.00	1901.3E6	4968.9E6	97.160	88.331
18) tc 4,4'-DDD	14.27	14.17	1735.9E6	4656.5E6	97.812	90.563
19) tcm 4,4'-DDT	14.67	14.61	1814.2E6	4945.7E6	94.595	90.155
22) tc Methoxychlor	15.37	15.59	4314.0E6	10311.9E6	458.933	432.844
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX659.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 11:23 am
Operator : M.PEDRO
Sample : indamh
Misc : initial cal
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:28:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



81274

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX660.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 11:59 am
 Operator : M.PEDRO
 Sample : indah
 Misc : initial cal
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:29:51 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	1540.4E6	4698.4E6	81.680	79.882
Spiked Amount	100.000	Range 30 - 150	Recovery =		81.68%	79.88%
25) S SURR2,Decachloro	17.42	17.50	2719.0E6	6818.1E6	156.667	150.539
Spiked Amount	100.000	Range 30 - 150	Recovery =		156.67%#	150.54%#
Target Compounds						
3) tc alpha-BHC	10.28	10.12	2532.2E6	7328.1E6	87.318	78.884
4) tcm gamma-BHC (L	10.81	10.68	2281.7E6	6564.9E6	85.719	79.687
5) tcm Heptachlor	11.55	11.34	2183.8E6	5988.2E6	82.347	74.307
10) tc alpha-Endosu	13.49	13.19	1672.8E6	4531.0E6	82.242	75.549
14) tcm Dieldrin	13.84	13.57	3725.4E6	9697.2E6	163.385	148.437
15) tcm Endrin	14.18	14.00	3356.7E6	8503.3E6	171.530	151.162
18) tc 4,4'-DDD	14.27	14.17	3096.3E6	8154.5E6	174.466	158.596
19) tcm 4,4'-DDT	14.67	14.61	3314.3E6	8679.8E6	172.811	158.223
22) tc Methoxychlor	15.37	15.59	7439.4E6	17756.3E6	791.420	745.322
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

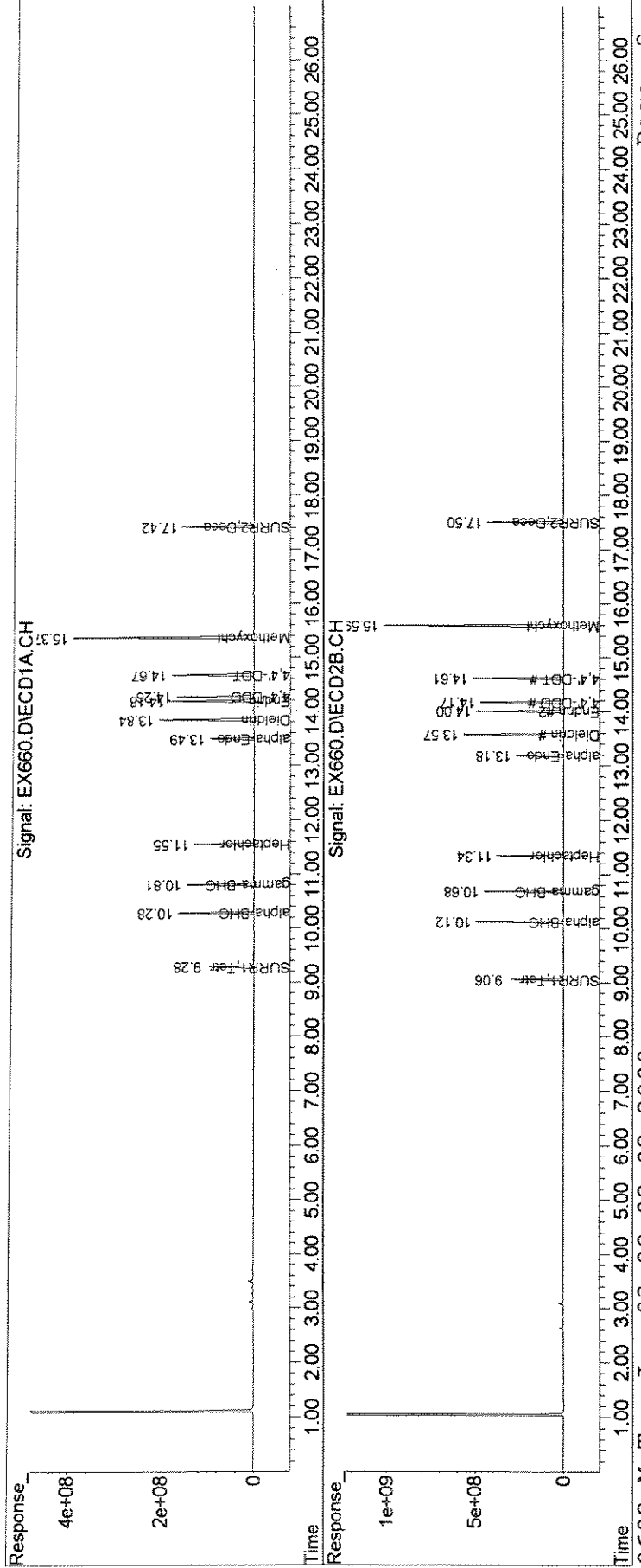
Myp 4/3

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX660.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 11:59 am
 Operator : M.PEDRO
 Sample : indah
 Misc : initial cal
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:29:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



91276

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX661.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 12:34 pm
 Operator : M.PEDRO
 Sample : indbl
 Misc : initial cal
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:30:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

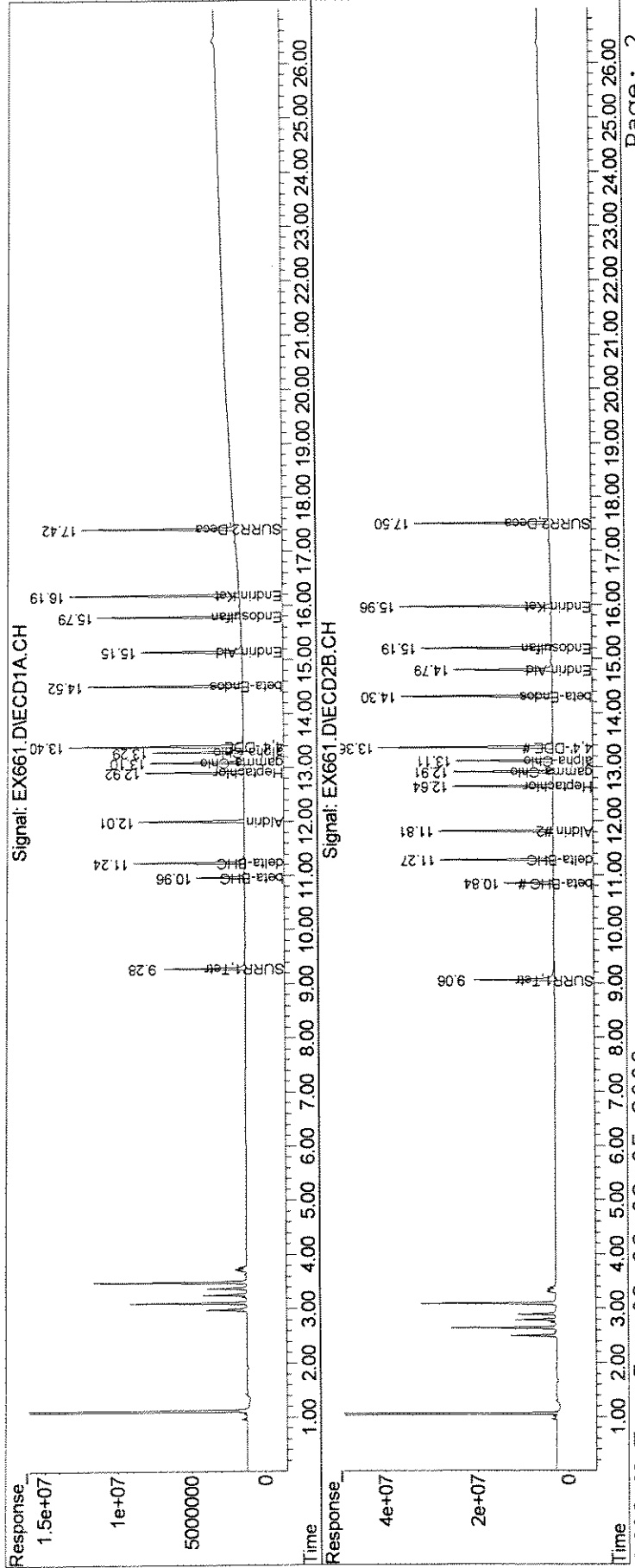
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	94151359	330.6E6	4.992	5.621
Spiked Amount	100.000	Range	30 - 150	Recovery =	4.99%#	5.62%#
25) S SURR2,Decachloro	17.42	17.50	182.7E6	491.3E6	10.524	10.848
Spiked Amount	100.000	Range	30 - 150	Recovery =	10.52%#	10.85%#
Target Compounds						
6) tcm Aldrin	12.01	11.81	115.5E6	377.3E6	4.758	5.083
7) tc beta-BHC	10.97	10.84	58745428	184.8E6	5.277	5.245
8) tc delta-BHC	11.24	11.27	127.0E6	401.0E6	5.012	5.113
9) tc Heptachlor E	12.92	12.64	113.5E6	348.8E6	5.028	5.227
11) tc gamma-Chlord	13.10	12.91	109.4E6	352.3E6	4.918	5.181
12) tc alpha-Chlord	13.29	13.11	108.5E6	337.5E6	4.990	5.101
13) tc 4,4'-DDE	13.40	13.36	213.1E6	666.2E6	10.285	10.766
17) tc beta-Endosul	14.52	14.30	192.8E6	575.4E6	10.082	10.635
20) tc Endrin Aldeh	15.15	14.79	141.3E6	405.4E6	9.874	10.233
21) tc Endosulfan S	15.79	15.19	176.7E6	507.3E6	10.527	10.774
24) tc Endrin Keton	16.19	15.96	205.0E6	559.0E6	10.246	10.426
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX661.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 12:34 pm
 Operator : M.PEDRO
 Sample : indbl
 Misc : initial cal
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:30:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01278

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX662.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 1:10 pm
 Operator : M.PEDRO
 Sample : indbml
 Misc : initial cal
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:31:44 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

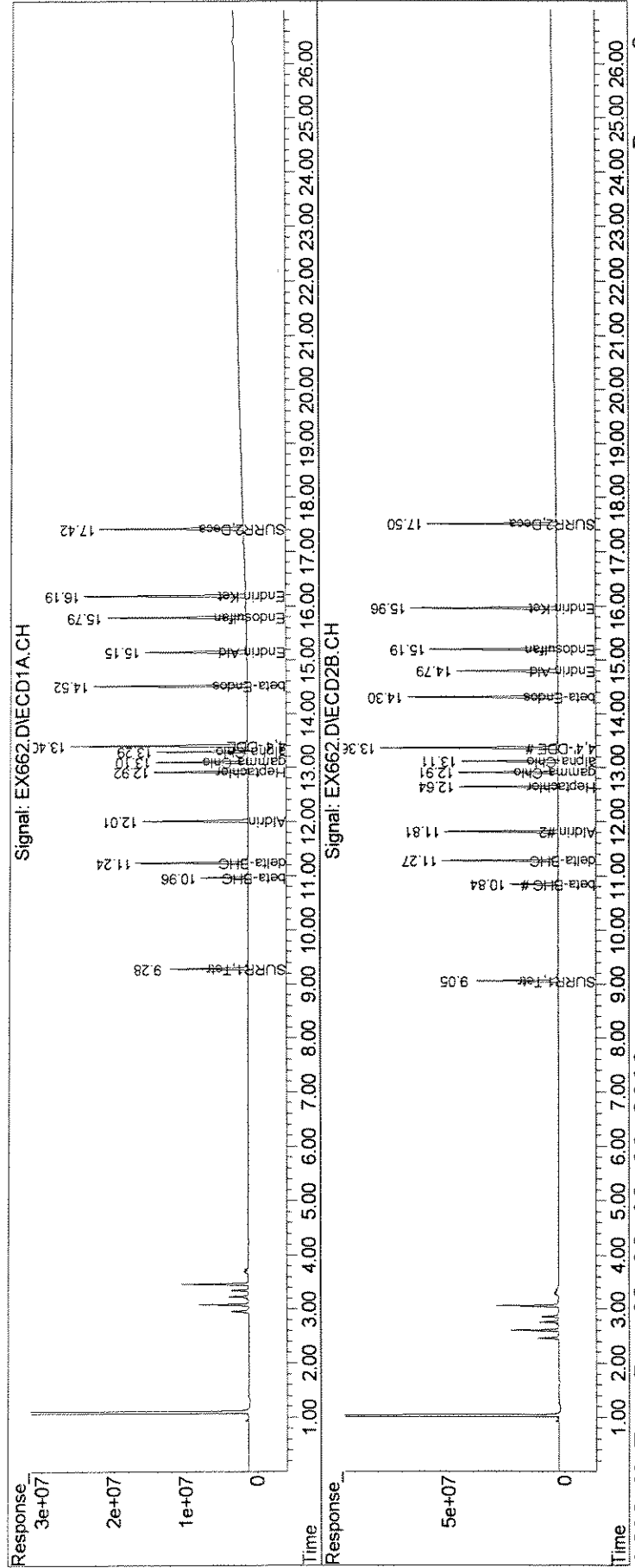
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	185.2E6	624.0E6	9.819	10.609 ^m / _{4B}
Spiked Amount	100.000	Range 30 - 150	Recovery =		9.82%#	10.61%#
25) S SURR2,Decachloro	17.42	17.50	343.8E6	906.6E6	19.809	20.017
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.81%#	20.02%#
Target Compounds						
6) tcm Aldrin	12.01	11.81	233.8E6	742.7E6	9.631	10.005
7) tc beta-BHC	10.96	10.84	111.6E6	346.2E6	10.021	9.827
8) tc delta-BHC	11.24	11.27	256.9E6	792.6E6	10.140	10.105
9) tc Heptachlor E	12.92	12.64	221.2E6	672.8E6	9.802	10.082
11) tc gamma-Chlord	13.10	12.91	214.5E6	679.2E6	9.647	9.989
12) tc alpha-Chlord	13.29	13.11	211.5E6	646.0E6	9.731	9.766
13) tc 4,4'-DDE	13.40	13.36	424.4E6	1277.5E6	20.479	20.645
17) tc beta-Endosul	14.52	14.30	374.3E6	1089.8E6	19.576	20.142
20) tc Endrin Aldeh	15.15	14.79	278.5E6	791.4E6	19.467	19.979
21) tc Endosulfan S	15.79	15.19	344.0E6	974.4E6	20.495	20.695
24) tc Endrin Keton	16.19	15.96	396.3E6	1062.9E6	19.807	19.823
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\060208\
 Data File : EX662.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 1:10 pm
 Operator : M.PEDRO
 Sample : indbml
 Misc : initial cal
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:31:44 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX663.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 1:46 pm
 Operator : M.PEDRO
 Sample : indbm
 Misc : initial cal
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:32:43 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

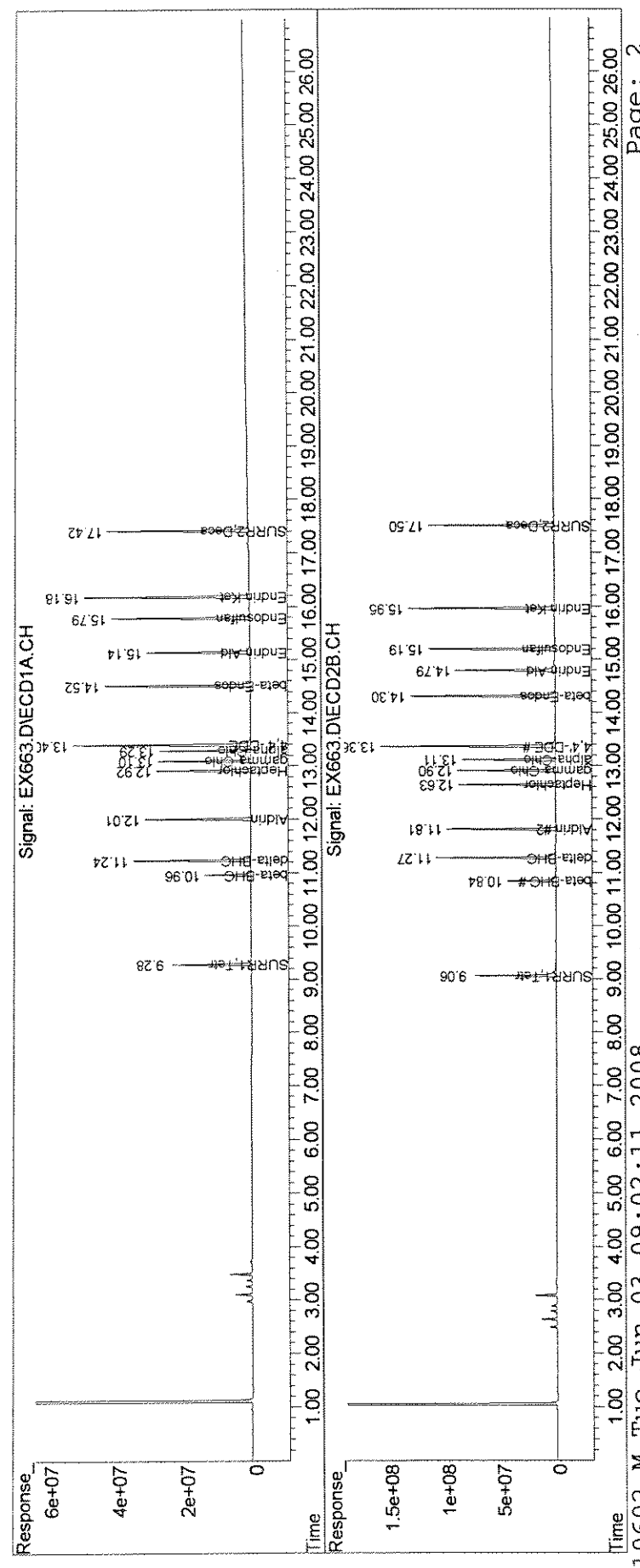
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	382.5E6	1266.3E6	20.281	21.529
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.28%#	21.53%#
25) S SURR2,Decachloro	17.42	17.50	703.5E6	1831.9E6	40.537	40.448
Spiked Amount	100.000	Range	30 - 150	Recovery =	40.54%	40.45%
Target Compounds						
6) tcm Aldrin	12.01	11.81	494.2E6	1514.7E6	20.362	20.404
7) tc beta-BHC	10.96	10.84	231.0E6	707.7E6	20.751	20.088
8) tc delta-BHC	11.24	11.27	562.5E6	1685.8E6	22.201	21.493
9) tc Heptachlor E	12.92	12.64	460.4E6	1358.1E6	20.406	20.351
11) tc gamma-Chlord	13.10	12.90	455.0E6	1403.1E6	20.465	20.634
12) tc alpha-Chlord	13.29	13.11	445.4E6	1333.1E6	20.490	20.153
13) tc 4,4'-DDE	13.40	13.36	909.7E6	2637.4E6	43.900	42.622
17) tc beta-Endosul	14.51	14.30	795.4E6	2220.3E6	41.598	41.036
20) tc Endrin Aldeh	15.15	14.79	592.6E6	1627.3E6	41.423	41.080
21) tc Endosulfan S	15.79	15.19	729.6E6	2004.4E6	43.465	42.572
24) tc Endrin Keton	16.18	15.95	839.4E6	2186.8E6	41.954	40.784
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\06020...
Data File : EX663.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 1:46 pm
Operator : M.PEDRO
Sample : indbm
Misc : initial cal
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:32:43 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
Qlast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase : STx-CLPII
Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX664.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 2:22 pm
 Operator : M.PEDRO
 Sample : indbmh
 Misc : initial cal
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:36:57 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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 System Monitoring Compounds

1) S	SURR1,Tetrac	9.28	9.06	791.6E6	2530.2E6	41.978	43.019
	Spiked Amount	100.000	Range 30 - 150	Recovery =		41.98%	43.02%
25) S	SURR2,Decachloro	17.42	17.50	1473.3E6	3710.3E6	84.893	81.920
	Spiked Amount	100.000	Range 30 - 150	Recovery =		84.89%	81.92%

Target Compounds

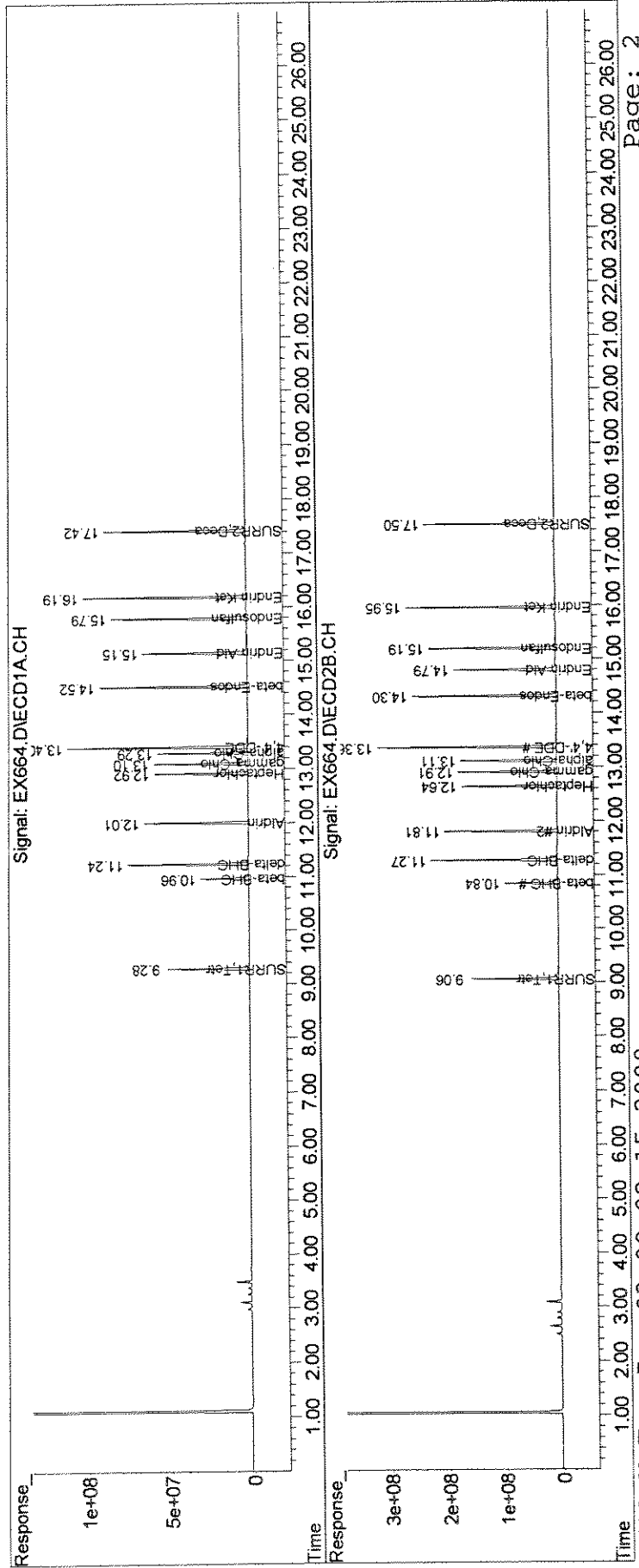
6) tcm	Aldrin	12.01	11.81	1042.0E6	3057.7E6	42.930	41.191
7) tc	beta-BHC	10.96	10.84	467.9E6	1446.1E6	42.029	41.049
8) tc	delta-BHC	11.24	11.27	1182.6E6	3481.0E6	46.678	44.381
9) tc	Heptachlor E	12.92	12.64	957.0E6	2696.4E6	42.414	40.407
11) tc	gamma-Chlord	13.10	12.91	959.9E6	2851.5E6	43.172	41.936
12) tc	alpha-Chlord	13.29	13.11	934.6E6	2715.1E6	42.995	41.045
13) tc	4,4'-DDE	13.40	13.36	1912.6E6	5340.8E6	92.293	86.308
17) tc	beta-Endosul	14.52	14.30	1633.7E6	4407.7E6	85.445	81.466
20) tc	Endrin Aldeh	15.15	14.79	1250.9E6	3287.3E6	87.439	82.985
21) tc	Endosulfan S	15.79	15.19	1518.9E6	4043.9E6	90.482	85.888
24) tc	Endrin Keton	16.19	15.96	1744.2E6	4386.3E6	87.173	81.805
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX664.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 2:22 pm
 Operator : M.PEDRO
 Sample : indbmh
 Misc : initial cal
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:36:57 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01294

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX665.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 2:57 pm
 Operator : M.PEDRO
 Sample : indbh
 Misc : initial cal
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:37:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

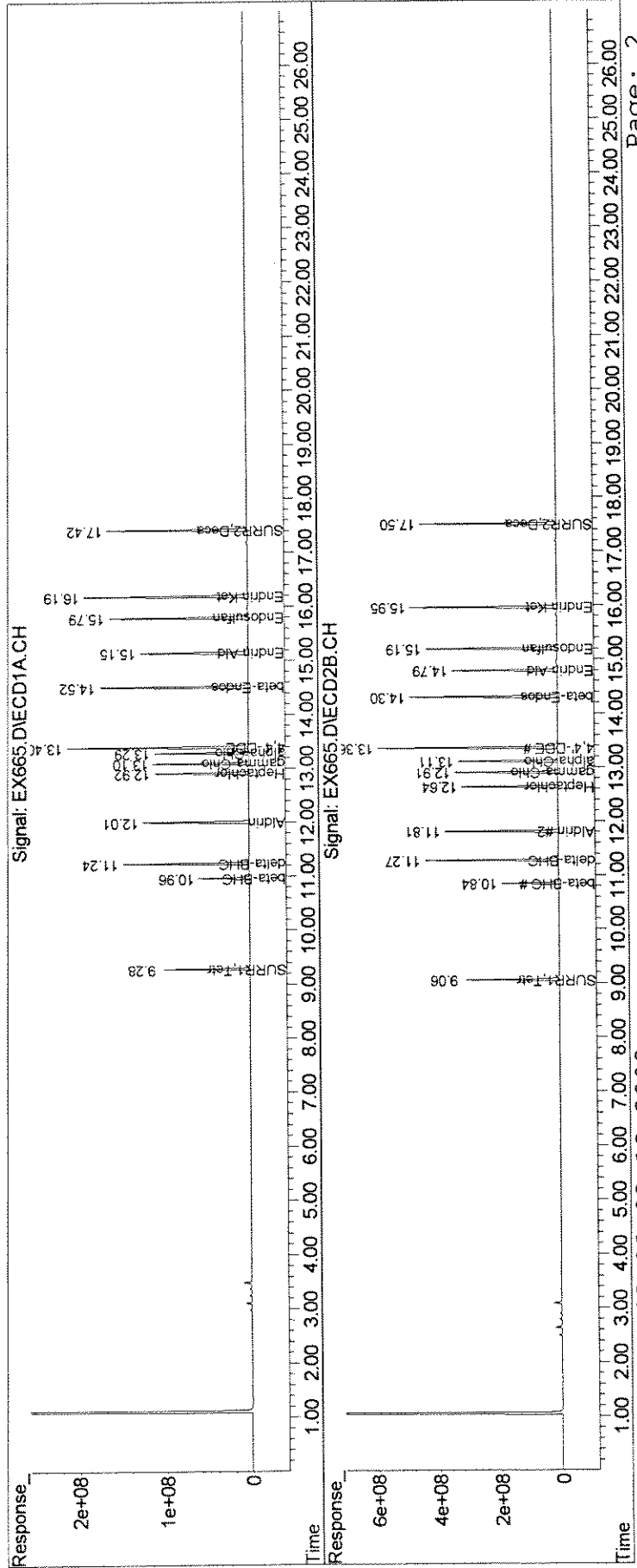
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	1590.1E6	4863.3E6	84.315	82.687
Spiked Amount	100.000	Range	30 - 150	Recovery =	84.31%	82.69%
25) S SURR2,Decachloro	17.42	17.50	2823.3E6	7187.1E6	162.676	158.688
Spiked Amount	100.000	Range	30 - 150	Recovery =	162.68%#	158.69%#
Target Compounds						
6) tcm Aldrin	12.01	11.81	2066.3E6	5825.7E6	85.131	78.478
7) tc beta-BHC	10.96	10.84	925.9E6	2820.4E6	83.165	80.059
8) tc delta-BHC	11.24	11.27	2360.9E6	6775.3E6	93.190	86.382
9) tc Heptachlor E	12.92	12.64	1876.4E6	5088.6E6	83.160	76.255
11) tc gamma-Chlord	13.10	12.91	1911.2E6	5503.7E6	85.959	80.940
12) tc alpha-Chlord	13.29	13.11	1859.7E6	5236.0E6	85.549	79.155
13) tc 4,4'-DDE	13.40	13.36	3716.2E6	10031.8E6	179.333	162.116
17) tc beta-Endosul	14.52	14.30	3198.5E6	8255.4E6	167.285	152.581
20) tc Endrin Aldeh	15.15	14.79	2462.3E6	6285.7E6	172.114	158.677
21) tc Endosulfan S	15.79	15.19	2974.1E6	7690.4E6	177.165	163.336
24) tc Endrin Keton	16.19	15.95	3409.2E6	8342.0E6	170.390	155.581
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX665.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 2:57 pm
 Operator : M.PEDRO
 Sample : indbh
 Misc : initial cal
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:37:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX666.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 3:33 pm
 Operator : M.PEDRO
 Sample : kep/fam 1
 Misc : initial cal
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:38:35 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

2) TC	HEXACHLORO BENZEN	9.98	9.87	145.8E6	497.8E6	5.271	5.454
16) tc	KEPONE	14.25	14.16	2426.4E6	6743.3E6	389.584	381.221
23) tc	FAMPHUR	16.08	15.31	1310.8E6	3260.0E6	114.383	117.394
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

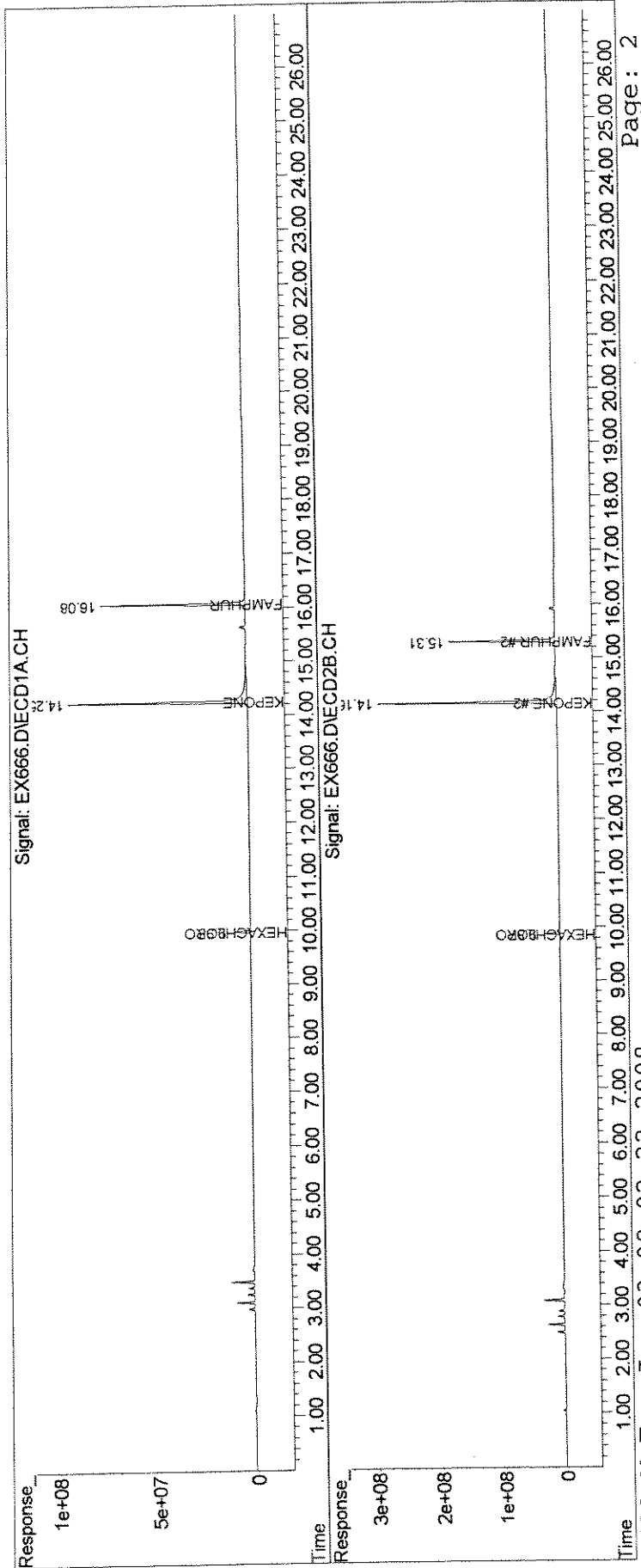
*WJ
6/3*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\060208\
Data File : EX666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 3:33 pm
Operator : M.PEDRO
Sample : kep/fam 1
Misc : initial cal
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:38:35 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX667.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 4:08 pm
 Operator : M.PEDRO
 Sample : kep/fam ml
 Misc : initial cal
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:39:14 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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System Monitoring Compounds

ms/13

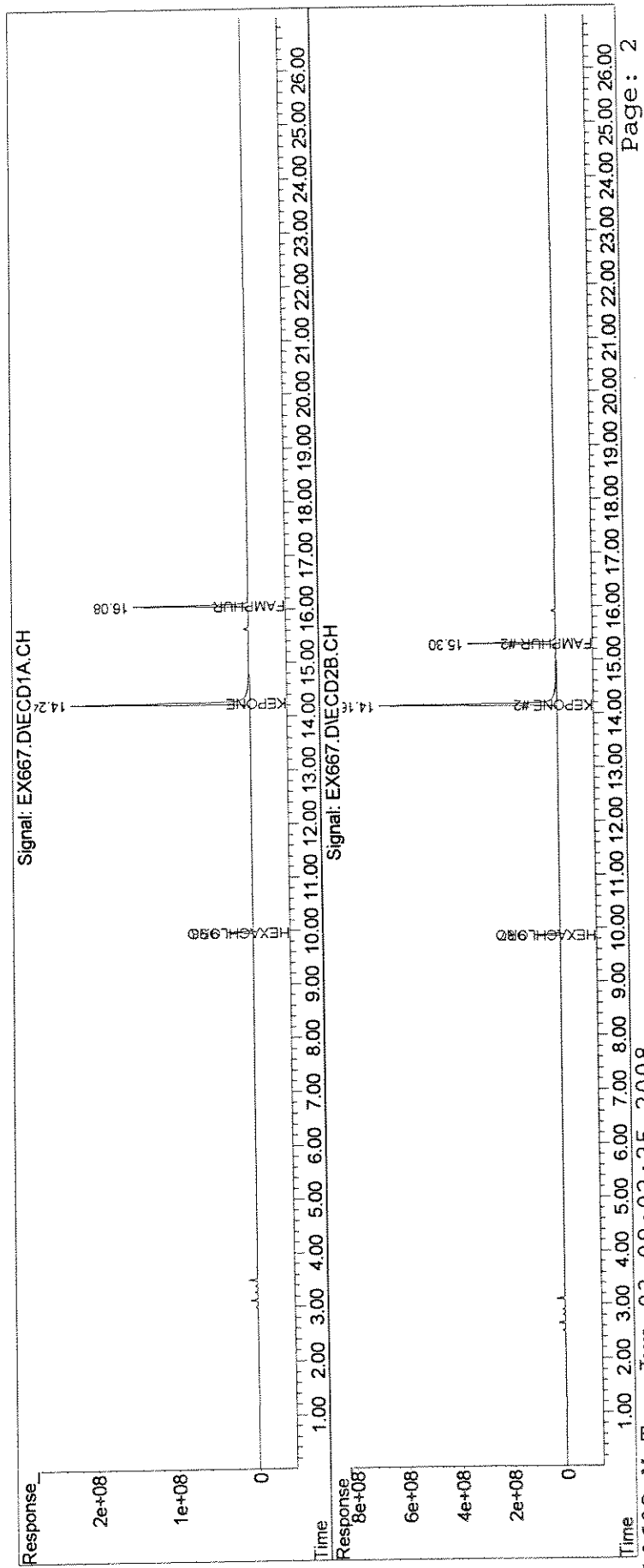
Target Compounds							
2) TC	HEXACHLOROBENZEN	9.98	9.87	550.9E6	1816.9E6	19.914	19.903
1) tc	KEPONE	14.24	14.16	5786.6E6	16556.3E6	929.115	935.983
15) tc	FAMPHUR	16.08	15.30	2536.2E6	6293.9E6	221.313	226.644
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX667.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 4:08 pm
Operator : M.PEDRO
Sample : kep/fam ml
Misc : initial cal
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:39:14 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01298

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX668.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 4:44 pm
 Operator : M.PEDRO
 Sample : kep/fam m
 Misc : initial cal
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:39:57 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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System Monitoring Compounds

Target Compounds

2) TC	HEXACHLORO BENZEN	9.98	9.87	1333.6E6	4280.0E6	48.208	46.885
6) tc	KEPONE	14.24	14.16	10242.9E6	27567.0E6	1644.636	1558.458
tc	FAMPHUR	16.08	15.30	3971.3E6	9795.0E6	346.547	352.720
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

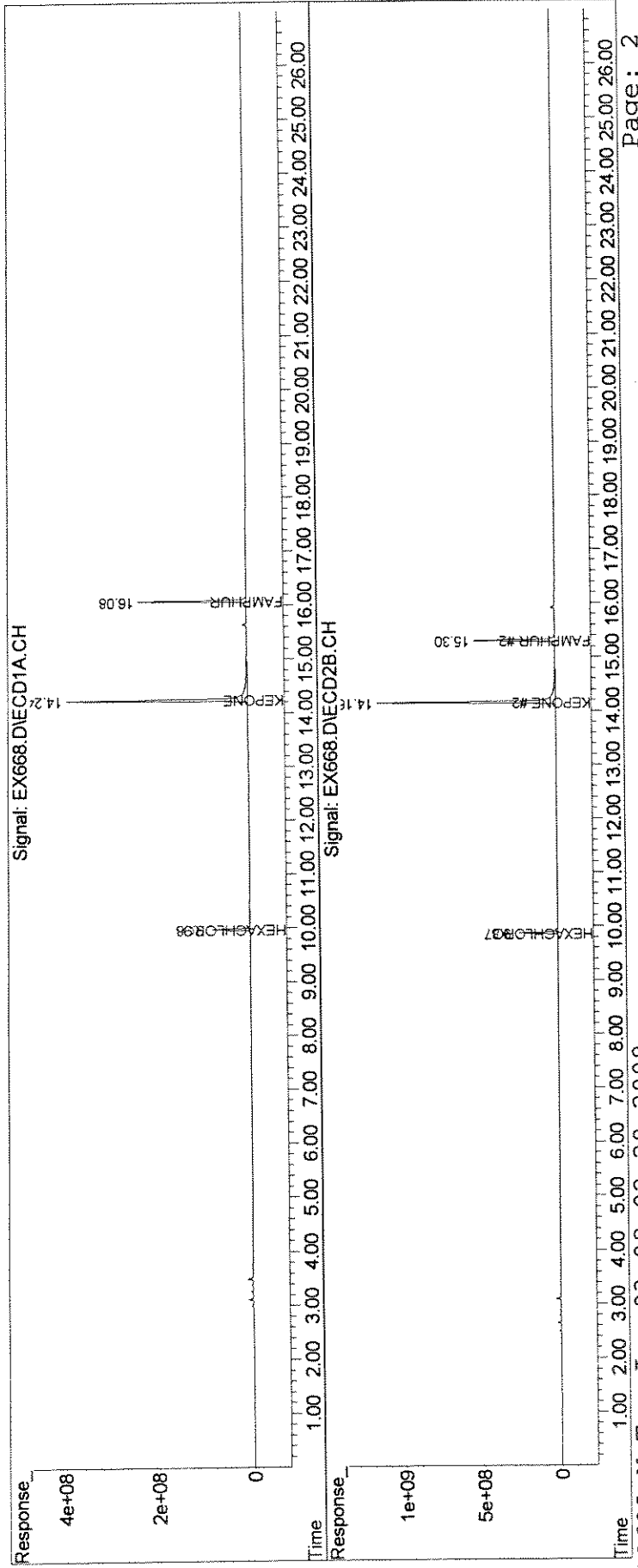
*wp
4/3*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX668.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 4:44 pm
 Operator : M.PEDRO
 Sample : kep/fam m
 Misc : initial cal
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:39:57 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01292

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX669.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 5:20 pm
 Operator : M.PEDRO
 Sample : kep/fam mh
 Misc : initial cal
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:43:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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System Monitoring Compounds

WJ

Target Compounds

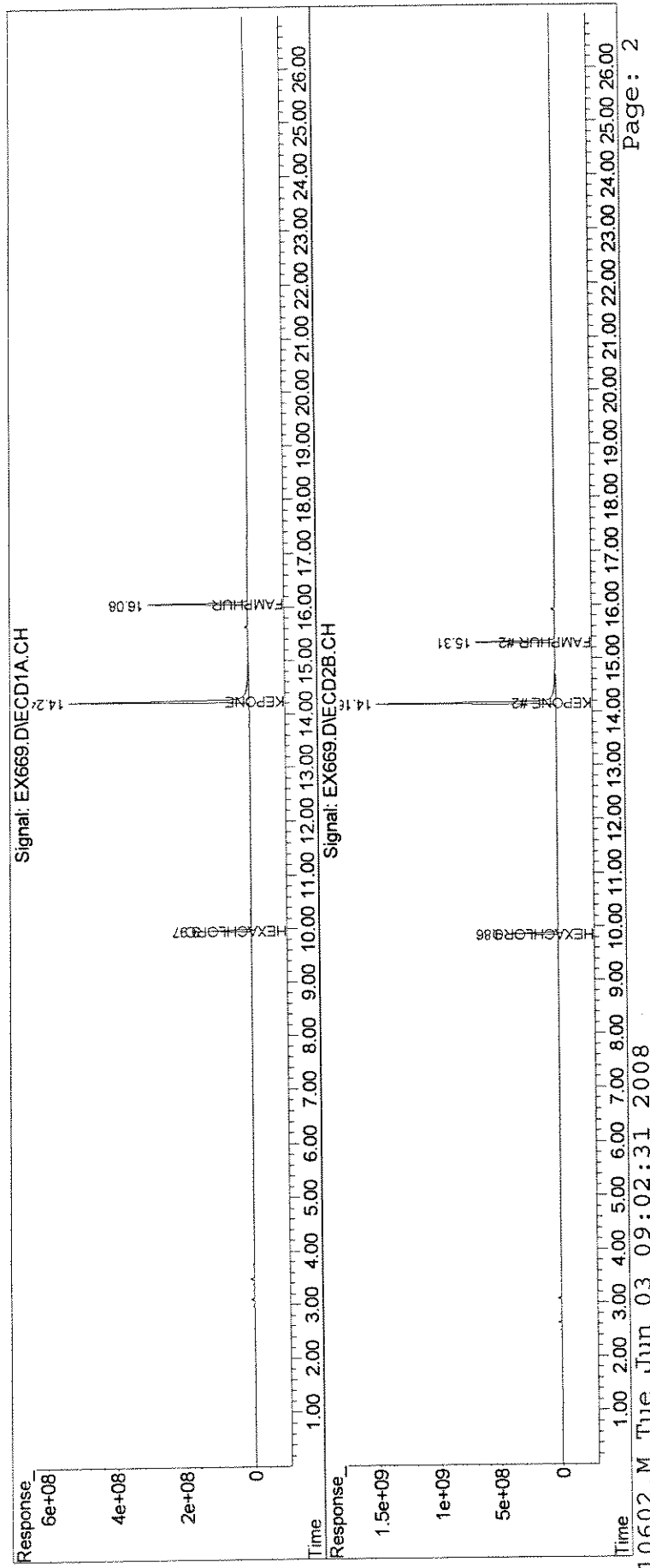
2) TC	HEXACHLORO BENZEN	9.97	9.86	2073.5E6	6532.4E6	74.958	71.559
16) tc	KEPONE	14.25	14.16	13784.8E6	35665.5E6	2213.337	2016.292
23) tc	FAMPHUR	16.08	15.31	5142.8E6	12223.4E6	448.768	440.168
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX669.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 5:20 pm
 Operator : M.PEDRO
 Sample : kep/fam mh
 Misc : initial cal
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:43:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX670.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 5:55 pm
 Operator : M.PEDRO
 Sample : kep/fam h
 Misc : initial cal
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:53:37 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

2) TC	HEXACHLOROBENZEN	9.97	9.87	2652.5E6	8231.0E6	95.887	90.167
16) tc	KEPONE	14.24	14.16	17328.6E6	48209.8E6	2782.335	2725.460
23) tc	FAMPHUR	16.08	15.30	6548.3E6	15830.2E6	571.420	570.049
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

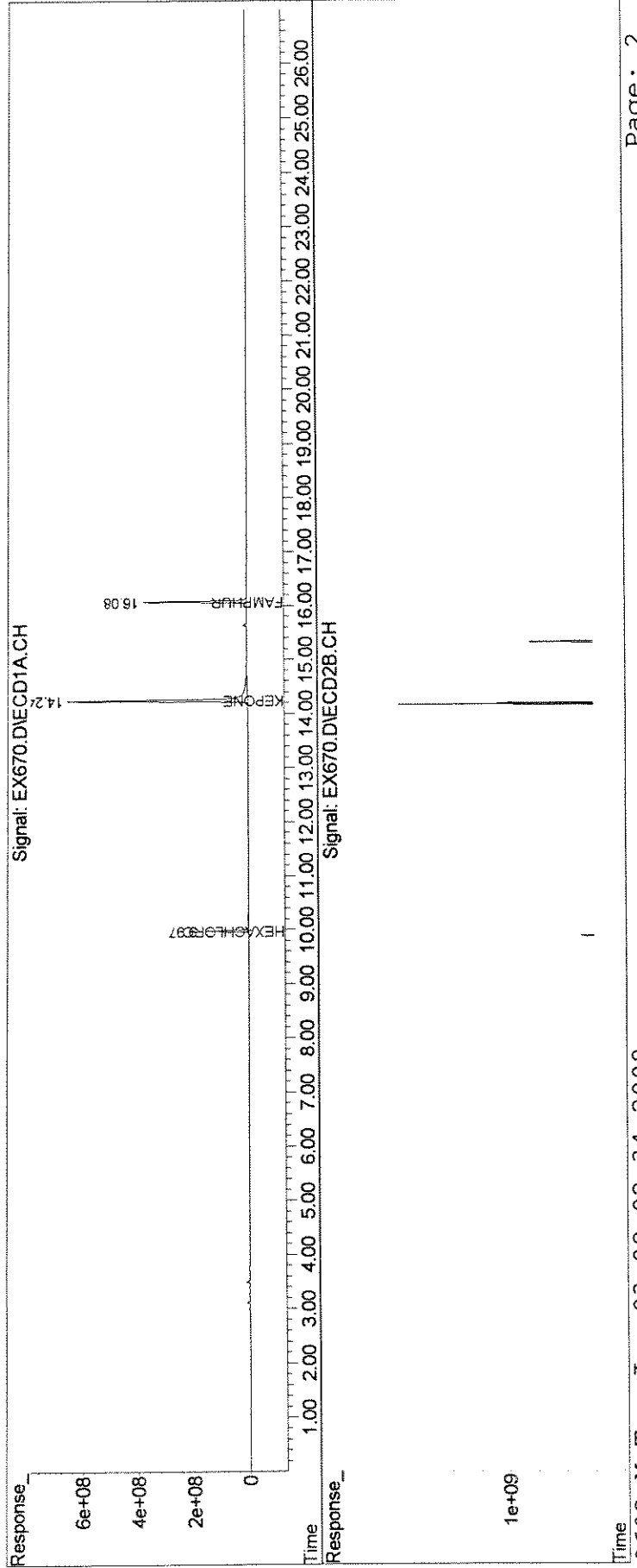
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

W
4/3

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX670.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 5:55 pm
 Operator : M.PEDRO
 Sample : kep/fam h
 Misc : initial cal
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:53:37 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01296

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX672.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 7:06 pm
 Operator : M.PEDRO
 Sample : tox 1
 Misc : initial cal
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:45:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

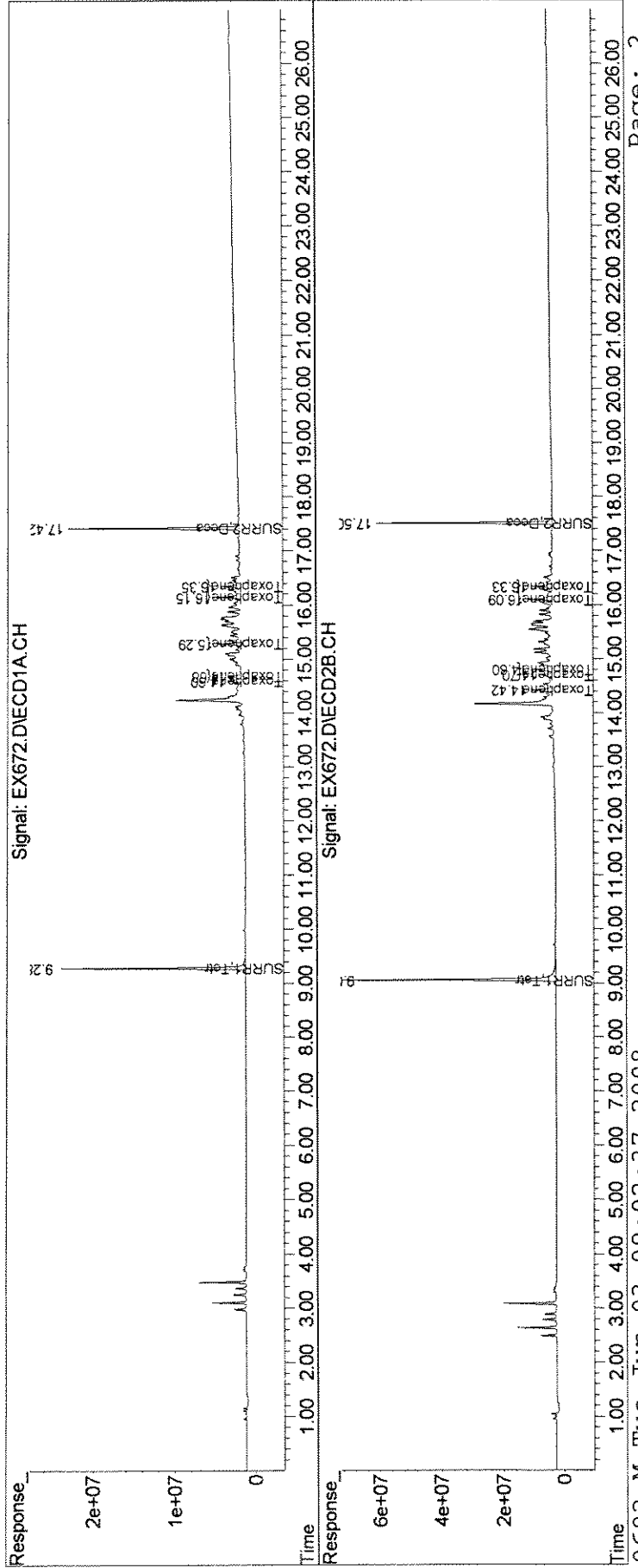
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	380.2E6	1255.4E6	20.163	21.344
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.16%#	21.34%#
25) S SURR2,Decachloro	17.42	17.50	359.8E6	931.8E6	20.729	20.574
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.73%#	20.57%#
Target Compounds						
26) L8C Toxaphene	14.60	14.42	31810812	173.4E6	90.319m	235.557 #
27) L8C Toxaphene {2}	14.68	14.70	31461072	79269104	111.782m	50.660 #
28) L8C Toxaphene {3}	15.29	14.80	63655281	163.9E6	111.344	161.859 #
29) L8C Toxaphene {4}	16.15	16.09	76388295	154.1E6	98.409	93.687
30) L8C Toxaphene {5}	16.35	16.33	57432512	150.1E6	102.187	92.355
Sum Toxaphene			260.7E6	720.8E6	514.040	634.118
Average Toxaphene					102.808	126.824
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX672.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 7:06 pm
 Operator : M.PEDRO
 Sample : tox 1
 Misc : initial cal
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:45:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

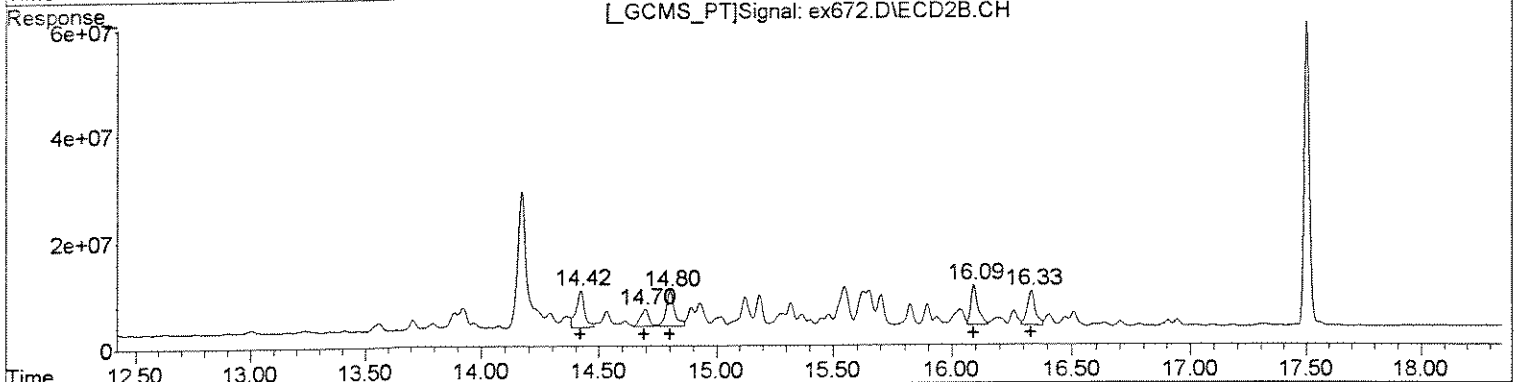
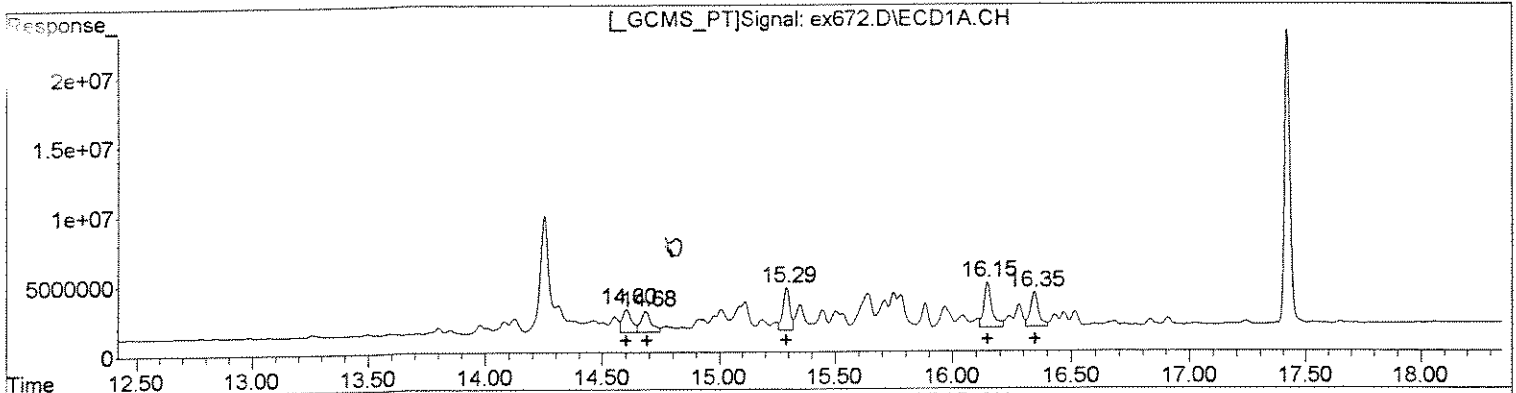


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex672.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 7:06 pm
 Operator : M.PEDRO
 Sample : tox 1
 Misc : initial cal
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:07:07 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(26) Toxaphene (L8C)		
R.T.	Response	Conc
14.60	44377492	126.00
14.68	44556162	158.31
15.29	63655281	111.34
16.15	76388295	98.41
16.35	57432512	102.19
(26) Toxaphene #2 (L8C)		
R.T.	Response	Conc
14.42	173408573	235.56
14.70	79269104	50.66
14.80	163866447	161.86
16.09	154149565	93.69
16.33	150135113	92.35

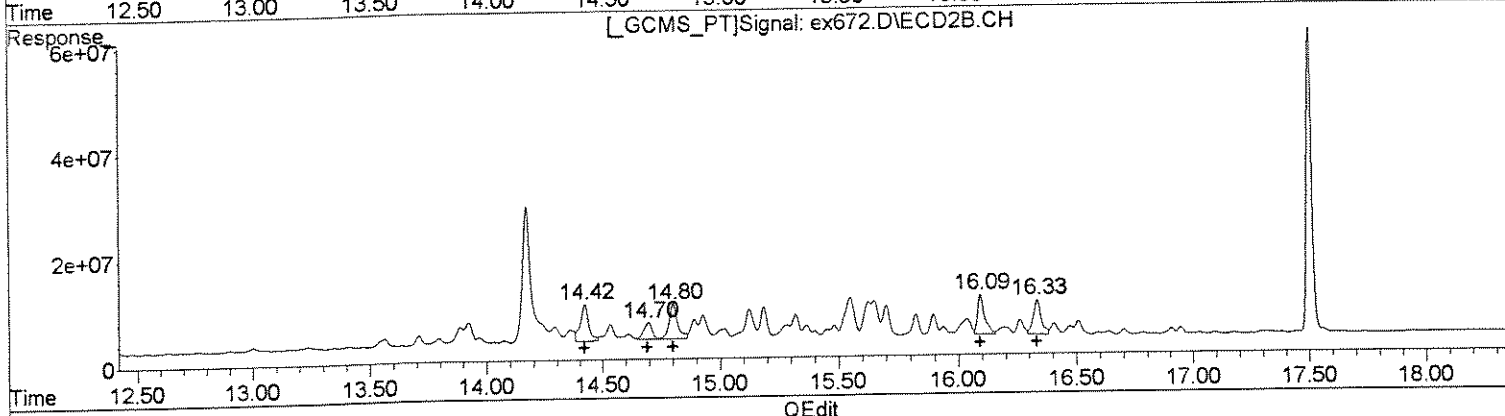
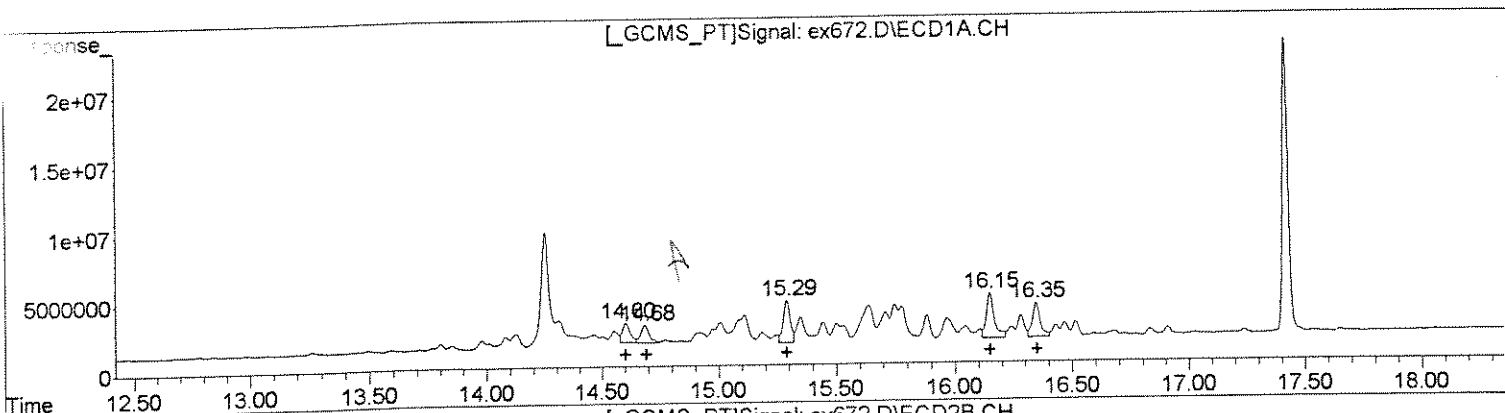
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex672.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 7:06 pm
 Operator : M.PEDRO
 Sample : tox 1
 Misc : initial cal
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:07:07 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(26) Toxaphene #2 (L8C)			
R.T.	Response	Conc	
14.60	31810812	90.32	
14.68	31461072	111.78	
15.29	63655281	111.34	
16.15	76388295	98.41	
16.35	57432512	102.19	
(26) Toxaphene #2 (L8C)			
R.T.	Response	Conc	
14.42	173408573	235.56	
14.70	79269104	50.66	
14.80	163866447	161.86	
16.09	154149565	93.69	
16.33	150135113	92.35	

avg 4/3 *max 4/4*

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX673.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 7:43 pm
 Operator : M.PEDRO
 Sample : tox ml
 Misc : initial cal
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:46:02 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

1) S	SURR1,Tetrac	9.29	9.06	777.6E6	2453.6E6	41.231	41.717	<i>WJG</i>
	Spiked Amount	100.000	Range 30 - 150	Recovery =		41.23%	41.72%	<i>4/13</i>
25) S	SURR2,Decachloro	17.42	17.50	721.2E6	1858.3E6	41.556	41.031	
	Spiked Amount	100.000	Range 30 - 150	Recovery =		41.56%	41.03%	

Target Compounds

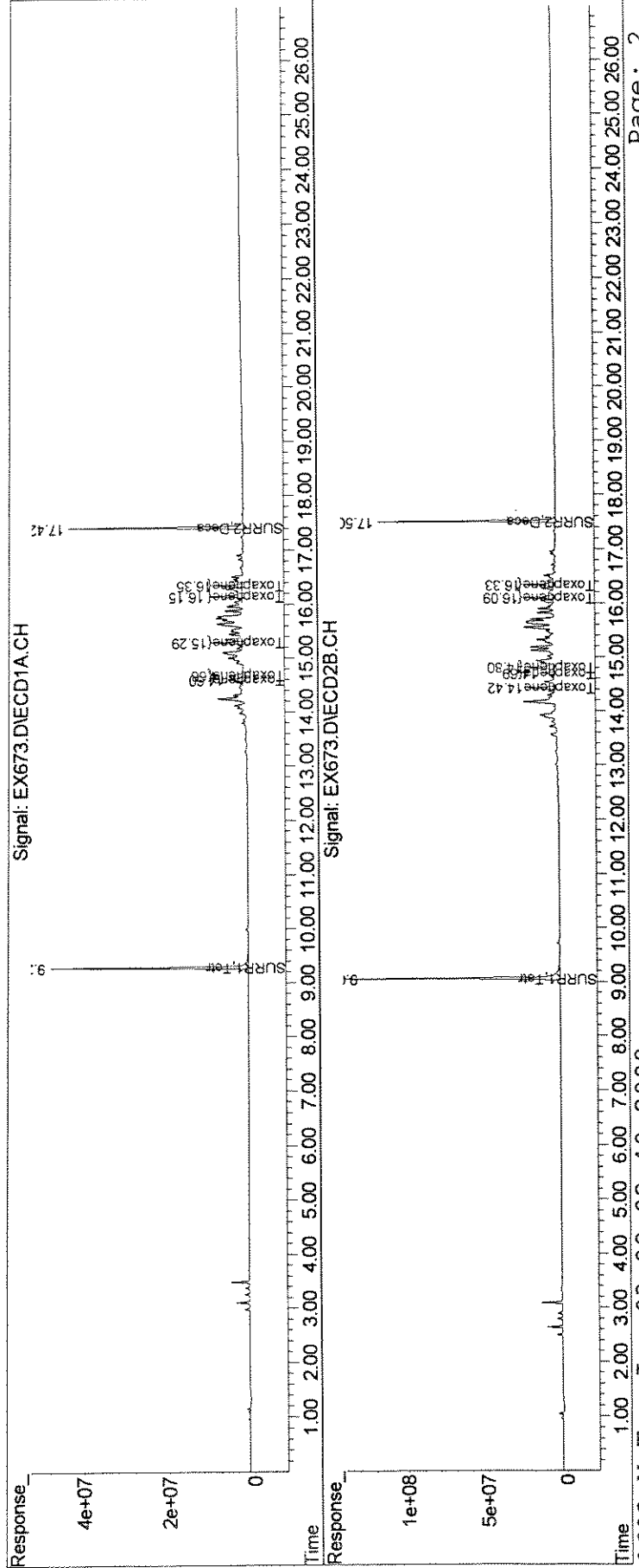
	L8C Toxaphene	14.60	14.42	106.4E6	396.5E6	302.081	538.619	#
27)	L8C Toxaphene {2}	14.68	14.70	103.2E6	184.0E6	366.530	117.594	#
28)	L8C Toxaphene {3}	15.29	14.80	173.1E6	402.2E6	302.846	397.284	#
29)	L8C Toxaphene {4}	16.15	16.09	209.4E6	400.6E6	269.740	243.445	
30)	L8C Toxaphene {5}	16.35	16.33	161.5E6	416.7E6	287.426	256.311	
	Sum Toxaphene			753.6E6	1799.9E6	1528.623	1553.252	
	Average Toxaphene					305.725	310.650	
	Sum Chlordane			0	0	N.D.	N.D.	
	Average Chlordane					0.000	0.000	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX673.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 7:43 pm
 Operator : M.PEDRO
 Sample : tox ml
 Misc : initial cal
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:46:02 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX674.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 8:19 pm
 Operator : M.PEDRO
 Sample : tox m
 Misc : initial cal
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:46:39 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.06	1169.1E6	3631.9E6	61.994	61.750
Spiked Amount	100.000	Range 30 - 150	Recovery =		61.99%	61.75%
25) S SURR2,Decachloro	17.42	17.50	1095.6E6	2750.5E6	63.127	60.731
Spiked Amount	100.000	Range 30 - 150	Recovery =		63.13%	60.73%
Target Compounds						
L8C Toxaphene	14.60	14.42	206.8E6	763.8E6	587.177	1037.500 #
L8C Toxaphene {2}	14.69	14.69	172.2E6	364.6E6	611.885	232.981 #
28) L8C Toxaphene {3}	15.29	14.80	342.2E6	785.5E6	598.579	775.865 #
29) L8C Toxaphene {4}	16.15	16.09	411.6E6	769.7E6	530.264	467.819
30) L8C Toxaphene {5}	16.35	16.33	324.2E6	832.6E6	576.780	512.153
Sum Toxaphene			1457.0E6	3516.1E6	2904.685	3026.320
Average Toxaphene					580.937	605.264
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

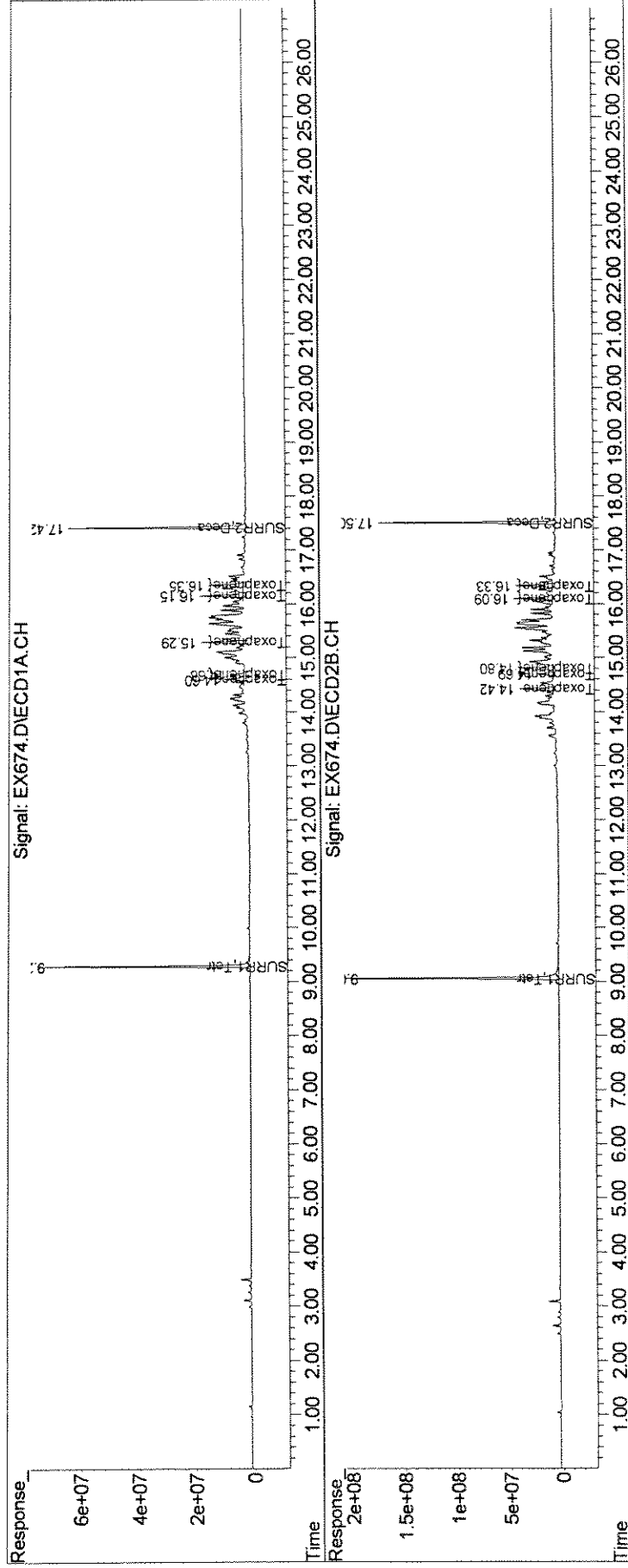
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

mf
4/3

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX674.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 8:19 pm
 Operator : M.PEDRO
 Sample : tox m
 Misc : initial cal
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:46:39 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX675.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 8:54 pm
 Operator : M.PEDRO
 Sample : tox mh
 Misc : initial cal
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:47:15 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.06	1580.3E6	4818.3E6	83.800	81.922
Spiked Amount	100.000	Range 30 -	150	Recovery =	83.80%	81.92%
25) S SURR2,Decachloro	17.42	17.50	1491.5E6	3702.3E6	85.940	81.745
Spiked Amount	100.000	Range 30 -	150	Recovery =	85.94%	81.75%
Target Compounds						
7) L8C Toxaphene	14.60	14.42	345.3E6	1243.3E6	980.526	1688.884 #
27) L8C Toxaphene {2}	14.68	14.69	308.3E6	586.9E6	1095.496	375.059 #
28) L8C Toxaphene {3}	15.29	14.80	579.1E6	1282.5E6	1012.946	1266.738 #
29) L8C Toxaphene {4}	16.15	16.09	802.8E6	1282.6E6	1034.227	779.512
30) L8C Toxaphene {5}	16.35	16.33	557.2E6	1428.6E6	991.428	878.780
Sum Toxaphene			2592.8E6	5823.8E6	5114.624	4988.972
Average Toxaphene					1022.925	997.794
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

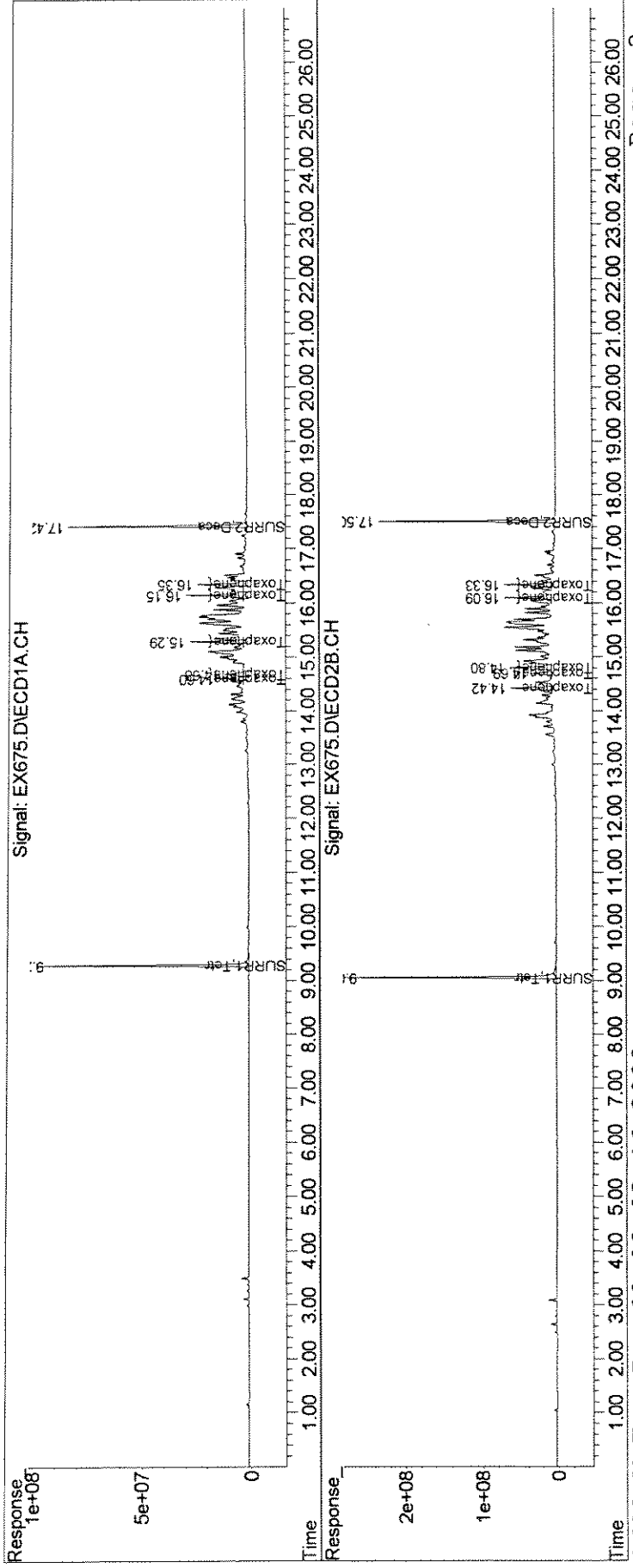
mw
13

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX675.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 8:54 pm
Operator : M.PEDRO
Sample : tox mh
Misc : initial cal
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:47:15 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



61306

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX676.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 9:30 pm
 Operator : M.PEDRO
 Sample : tox h
 Misc : initial cal
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:47:39 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.06	1991.4E6	5981.6E6	105.596	101.700
Spiked Amount	100.000	Range 30 - 150	Recovery =	105.60%	101.70%	
25) S SURR2,Decachloro	17.42	17.50	1879.0E6	4630.7E6	108.267	102.243
Spiked Amount	100.000	Range 30 - 150	Recovery =	108.27%	102.24%	
Target Compounds						
26) L8C Toxaphene	14.60	14.42	470.3E6	1686.9E6	1335.211	2291.420 #
27) L8C Toxaphene {2}	14.69	14.69	391.9E6	806.2E6	1392.439	515.219 #
28) L8C Toxaphene {3}	15.29	14.80	790.1E6	1732.0E6	1381.953	1710.781
29) L8C Toxaphene {4}	16.15	16.09	949.3E6	1739.6E6	1222.999	1057.277
30) L8C Toxaphene {5}	16.35	16.33	764.0E6	1970.8E6	1359.375	1212.309
Sum Toxaphene			3365.6E6	7935.4E6	6691.977	6787.006
page Toxaphene					1338.395	1357.401
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

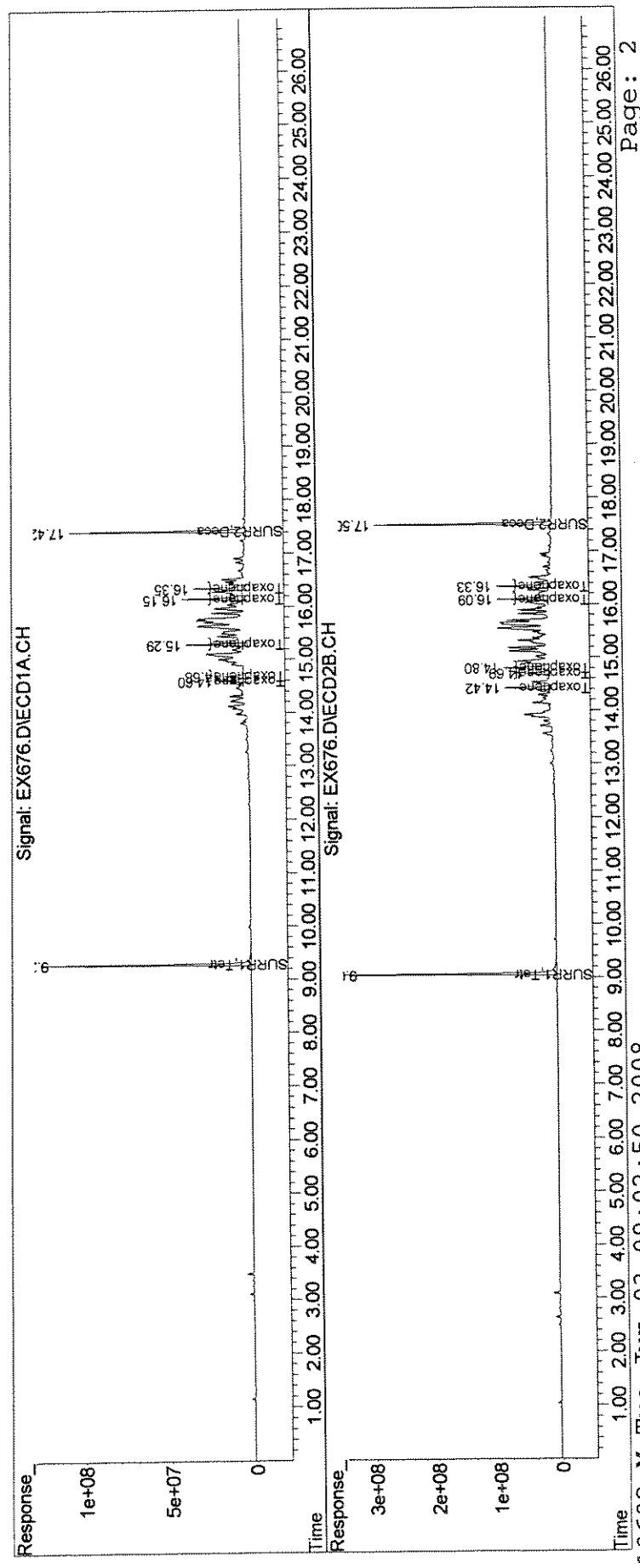
mt
6/3

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX676.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 9:30 pm
Operator : M.PEDRO
Sample : tox h
Misc : initial cal
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:47:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01308

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX677.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:05 pm
 Operator : M.PEDRO
 Sample : chlor 1
 Misc : initial cal
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:48:21 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

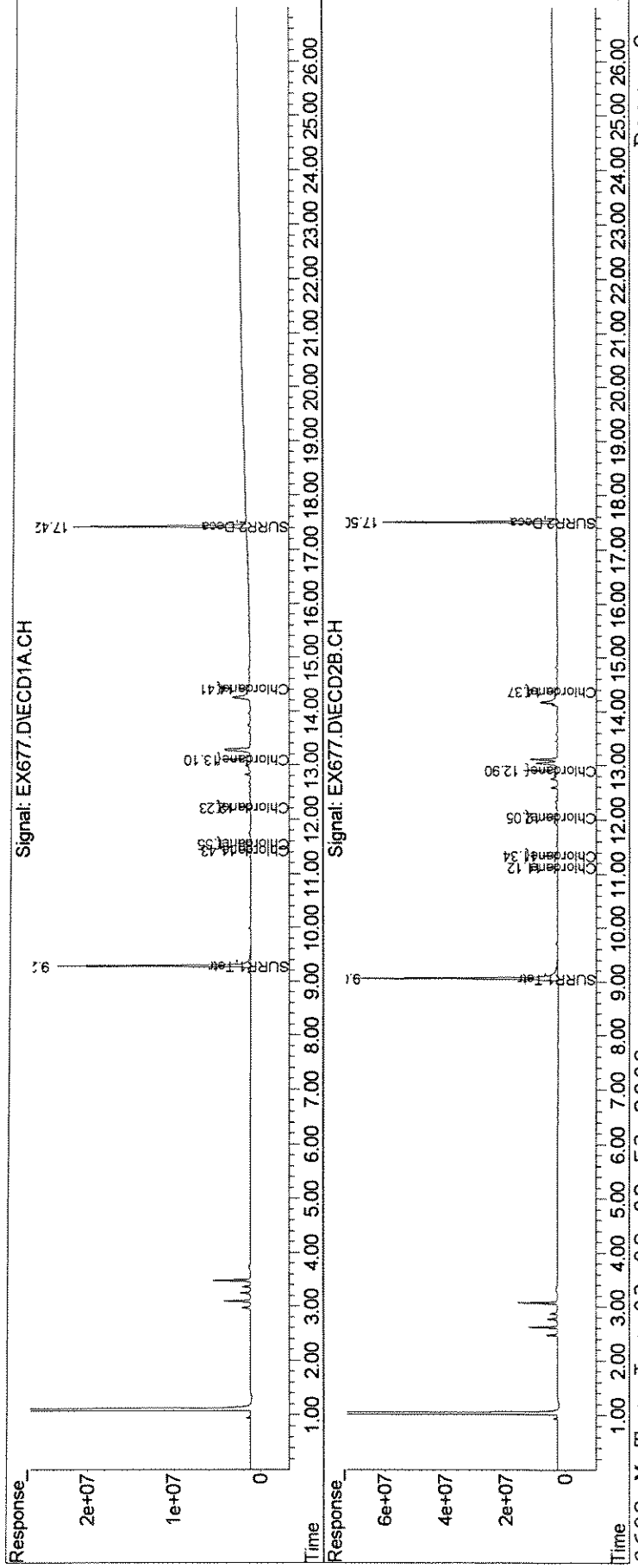
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	390.0E6	1294.1E6	20.681	22.003 ^{mm}
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.68%#	22.00%# ^{4/b}
25) S SURR2,Decachloro	17.42	17.50	359.6E6	957.6E6	20.718	21.144
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.72%#	21.14%#
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
31) L9C Chlordane	11.43	11.12	18565788	63519013	25.168	25.821
L9C Chlordane {2}	11.55	11.34	25947064	84310320	24.716	25.829
L9C Chlordane {3}	12.23	12.05	26069453	72646506	27.340	27.419
L9C Chlordane {4}	13.10	12.90	62418715	190.7E6	23.589	29.041
35) L9C Chlordane {5}	14.41	14.37	25099953	81723084	27.872	29.379
Sum Chlordane			158.1E6	492.9E6	128.685	137.489
Average Chlordane					25.737	27.498

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX677.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:05 pm
 Operator : M.PEDRO
 Sample : chlor l
 Misc : initial cal
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:48:21 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX678.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:41 pm
 Operator : M.PEDRO
 Sample : chlor ml
 Misc : initial cal
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:48:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

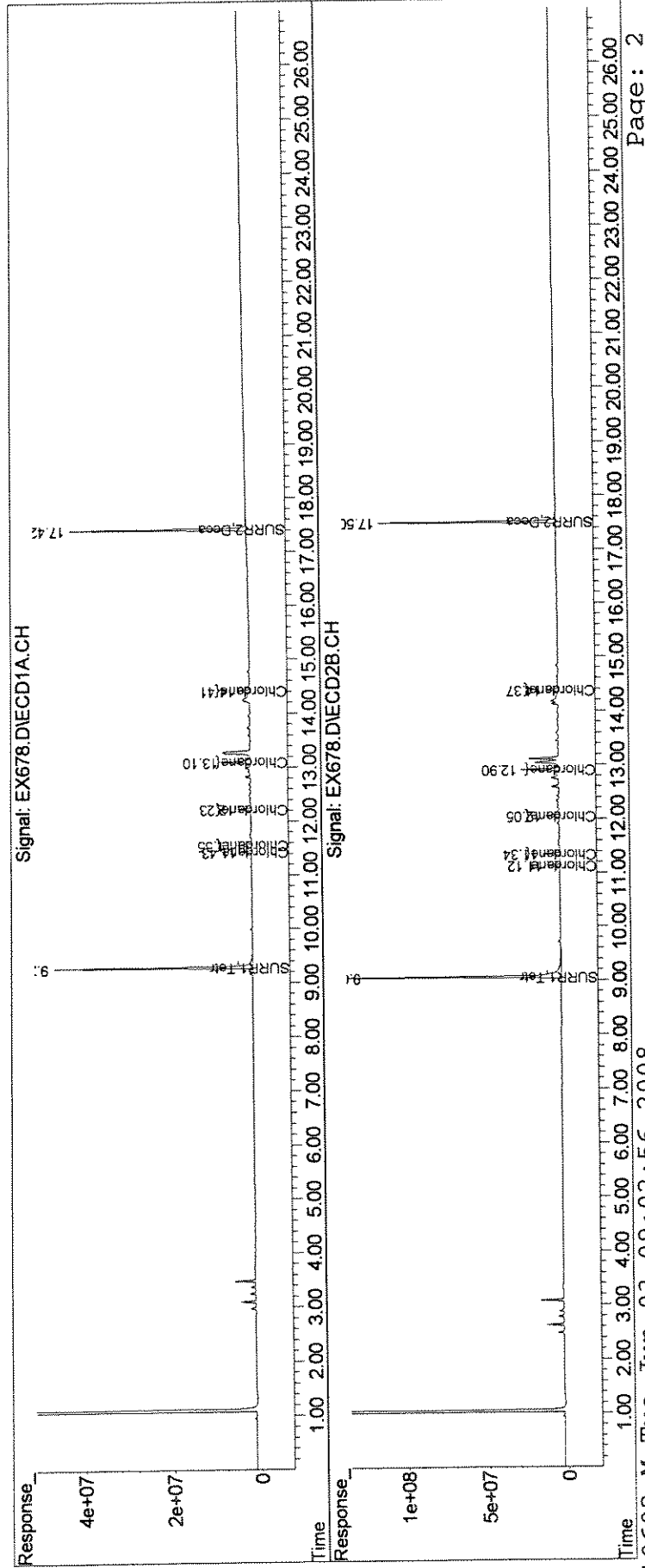
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	768.9E6	2516.1E6	40.770	42.779
Spiked Amount	100.000	Range	30 - 150	Recovery =	40.77%	42.78%
25) S SURR2,Decachloro	17.42	17.50	698.7E6	1832.7E6	40.258	40.466
Spiked Amount	100.000	Range	30 - 150	Recovery =	40.26%	40.47%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
31) L9C Chlordane	11.43	11.12	37595021	125.7E6	50.964	51.081
32) L9C Chlordane {2}	11.56	11.34	52841542	169.3E6	50.334	51.857
33) L9C Chlordane {3}	12.23	12.05	50569698	142.1E6	53.034	53.621
L9C Chlordane {4}	13.10	12.91	132.8E6	392.5E6	50.201	59.762
L9C Chlordane {5}	14.41	14.37	44336596	153.9E6	49.233	55.331
Sum Chlordane			318.2E6	983.4E6	253.767	271.652
Average Chlordane					50.753	54.330

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX678.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:41 pm
 Operator : M.PEDRO
 Sample : chlor ml
 Misc : initial cal
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:48:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



81312

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX679.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 11:16 pm
 Operator : M.PEDRO
 Sample : chlor m
 Misc : initial cal
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:49:21 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

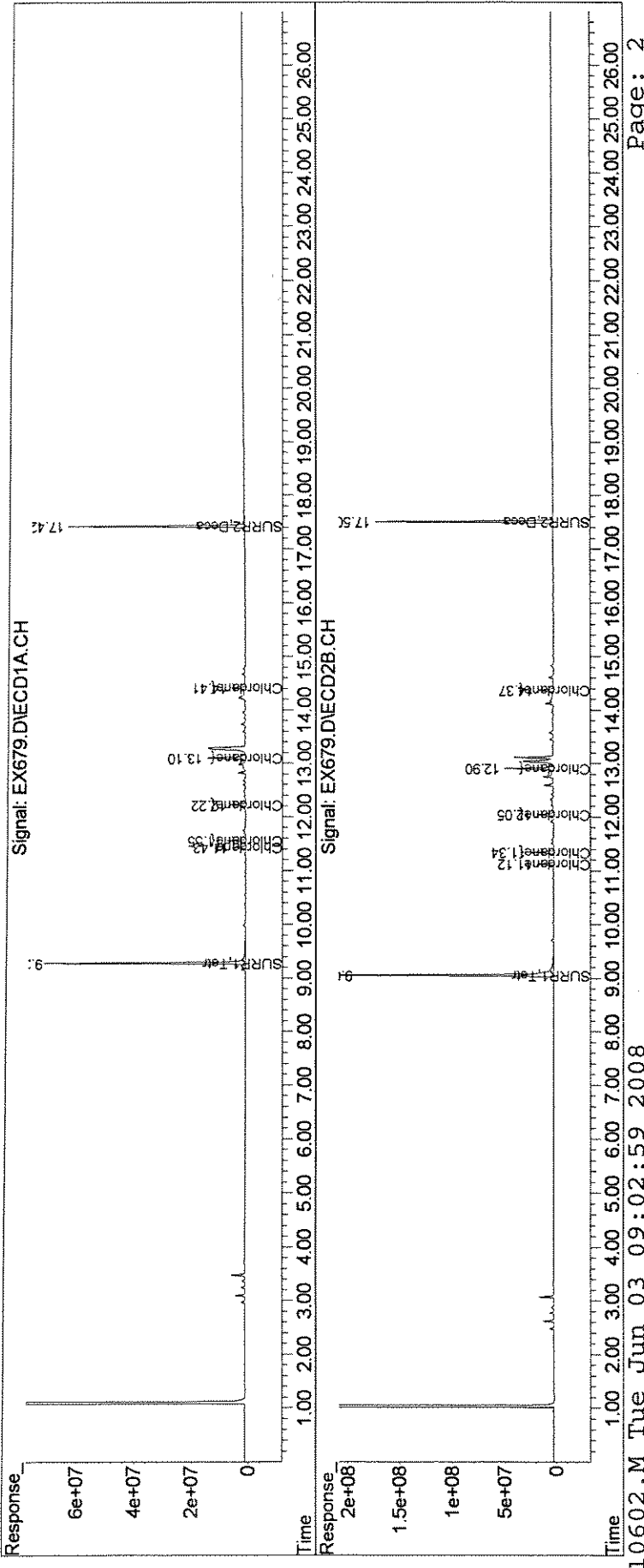
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	1183.7E6	3787.5E6	62.769	64.396
Spiked Amount	100.000	Range	30 - 150	Recovery =	62.77%	64.40%
25) S SURR2,Decachloro	17.42	17.50	1071.5E6	2781.5E6	61.740	61.414
Spiked Amount	100.000	Range	30 - 150	Recovery =	61.74%	61.41%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
31) L9C Chlordane	11.43	11.12	75779007	252.5E6	102.727	102.636
32) L9C Chlordane {2}	11.56	11.34	108.2E6	344.2E6	103.050	105.457
33) L9C Chlordane {3}	12.22	12.05	99112978	278.7E6	103.943	105.184
34) L9C Chlordane {4}	13.10	12.90	274.2E6	800.4E6	103.610	121.875
L9C Chlordane {5}	14.41	14.37	97663410	296.4E6	108.449	106.557
Sum Chlordane			654.9E6	1972.2E6	521.779	541.707
Average Chlordane					104.356	108.341

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX679.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 11:16 pm
Operator : M.PEDRO
Sample : chlor m
Misc : initial cal
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:49:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



81314

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX680.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 11:53 pm
 Operator : M.PEDRO
 Sample : chlor mh
 Misc : initial cal
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:49:59 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.05	1582.9E6	4399.7E6	83.934	74.805
Spiked Amount	100.000	Range 30 - 150	Recovery =		83.93%	74.81%
25) S SURR2,Decachloro	17.42	17.50	1422.1E6	3684.9E6	81.942	81.362
Spiked Amount	100.000	Range 30 - 150	Recovery =		81.94%	81.36%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
31) L9C Chlordane	11.43	11.12	193.2E6	629.0E6	261.927	255.675
32) L9C Chlordane {2}	11.55	11.34	278.0E6	864.6E6	264.795	264.867
33) L9C Chlordane {3}	12.22	12.04	243.6E6	674.9E6	255.482	254.721
34) L9C Chlordane {4}	13.10	12.90	713.5E6	2018.7E6	269.632	307.394
35) L9C Chlordane {5}	14.41	14.37	238.0E6	735.8E6	264.305	264.528
Sum Chlordane			1666.3E6	4923.0E6	1316.140	1347.184
Average Chlordane					263.228	269.437

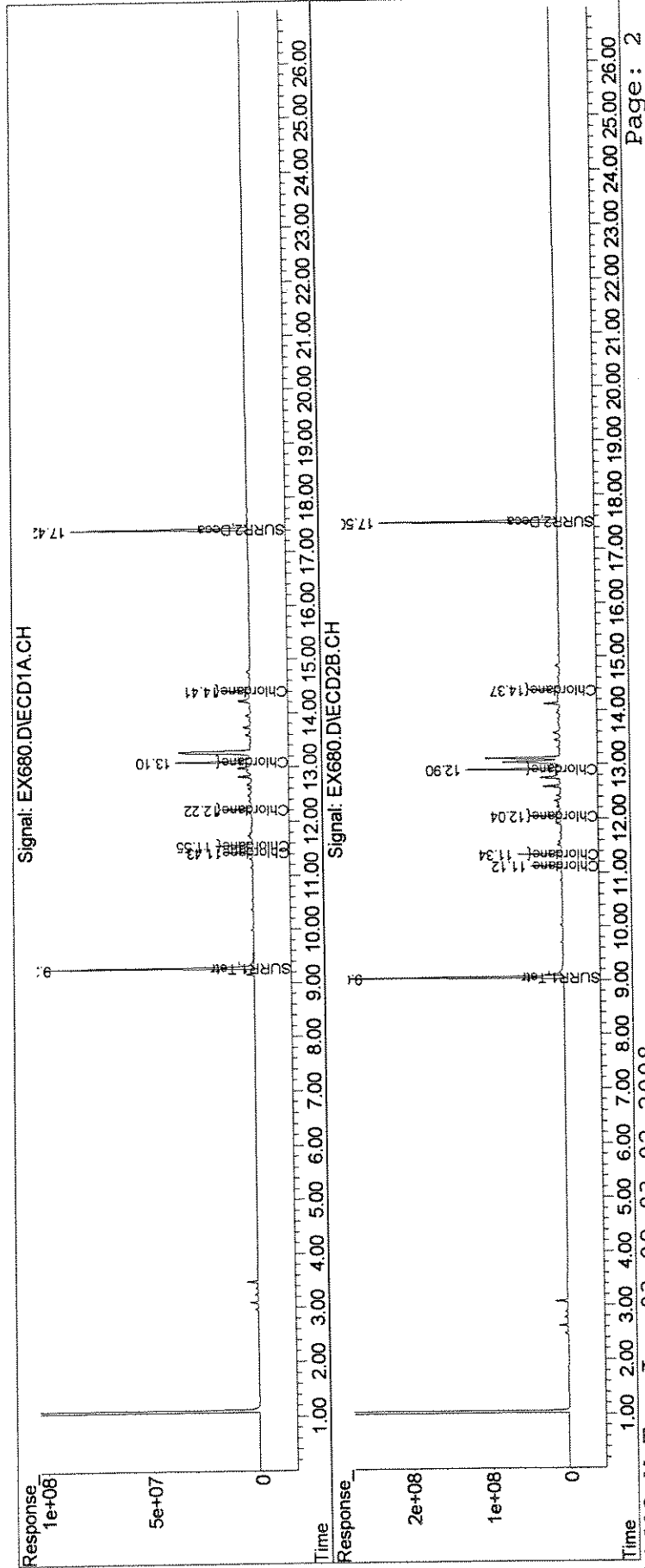
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX680.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 11:53 pm
Operator : M.PEDRO
Sample : chlor mh
Misc : initial cal
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:49:59 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX681.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 12:29 am
 Operator : M.PEDRO
 Sample : chlor h
 Misc : initial cal
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 08:50:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.05	2003.1E6	5505.7E6	106.217	93.608
Spiked Amount	100.000	Range	30 - 150	Recovery =	106.22%	93.61%
25) S SURR2,Decachloro	17.42	17.50	1803.5E6	4662.7E6	103.917	102.950
Spiked Amount	100.000	Range	30 - 150	Recovery =	103.92%	102.95%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
31) L9C Chlordane	11.43	11.12	400.5E6	1249.2E6	542.902	507.798
32) L9C Chlordane {2}	11.55	11.34	574.8E6	1721.8E6	547.523	527.473
33) L9C Chlordane {3}	12.22	12.04	489.5E6	1323.9E6	513.322	499.682
34) L9C Chlordane {4}	13.10	12.90	1467.7E6	4004.5E6	554.666	609.764
5) L9C Chlordane {5}	14.41	14.37	490.3E6	1485.1E6	544.419	533.897
Sum Chlordane			3422.7E6	9784.5E6	2702.832	2678.615
Average Chlordane					540.566	535.723

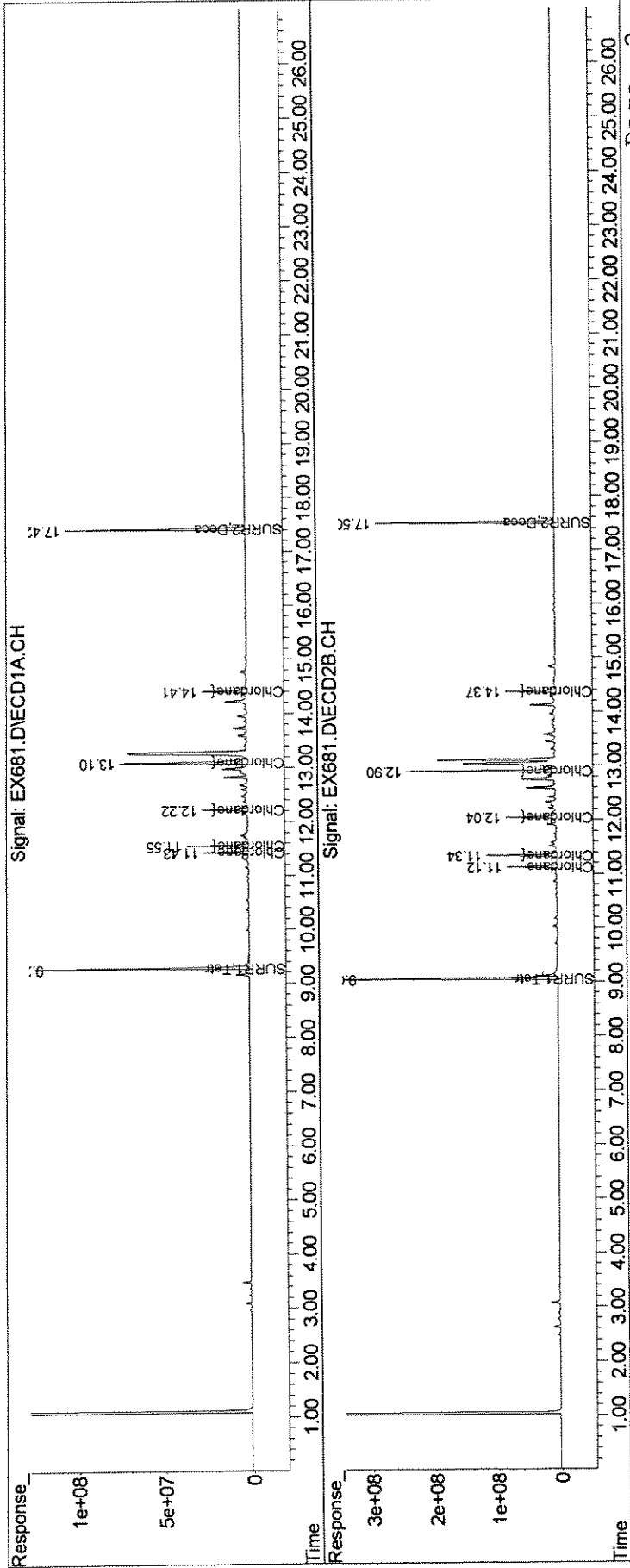
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b3*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX681.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2008 12:29 am
Operator : M.PEDRO
Sample : chlor h
Misc : initial cal
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:50:54 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : ex671.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 6:31 pm
 Operator : M.PEDRO
 Sample : kep/fam icv
 Misc : initial cal
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 09:14:20 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
16 tc KEPONE	6.258	7.817 E6	-24.9#	114	0.00
23 tc FAMPHUR	12.996	10.748 E6	17.3#	81	0.00

Signal #2

16 tc KEPONE	17.108	20.685 E6	-20.9#	113	0.00
23 tc FAMPHUR	31.788	27.293 E6	14.1	84	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	18.833	0.000 E6	100.0#	0#	-9.28#
2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
3 tc alpha-BHC	30.031	0.000 E6	100.0#	0#	-10.28#
4 tcm gamma-BHC (L	27.489	0.000 E6	100.0#	0#	-10.81#
5 tcm Heptachlor	26.908	0.000 E6	100.0#	0#	-11.55#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#
7 tc beta-BHC	11.546	0.000 E6	100.0#	0#	-10.96#
8 TC delta-BHC	27.657	0.000 E6	100.0#	0#	-11.24#
9 tc Heptachlor E	23.041	0.000 E6	100.0#	0#	-12.92#
10 tc alpha-Endosu	20.604	0.000 E6	100.0#	0#	-13.49#
11 tc gamma-Chlord	22.791	0.000 E6	100.0#	0#	-13.10#
12 tc alpha-Chlord	22.346	0.000 E6	100.0#	0#	-13.29#
13 tc 4,4'-DDE	22.482	0.000 E6	100.0#	0#	-13.40#
14 tcm Dieldrin	23.283	0.000 E6	100.0#	0#	-13.84#
15 tcm Endrin	20.860	0.000 E6	100.0#	0#	-14.18#
17 tc beta-Endosul	19.657	0.000 E6	100.0#	0#	-14.52#
18 tc 4,4'-DDD	18.810	0.000 E6	100.0#	0#	-14.27#
19 tcm 4,4'-DDT	20.032	0.000 E6	100.0#	0#	-14.67#
20 tc Endrin Aldeh	14.779	0.000 E6	100.0#	0#	-15.15#
21 tc Endosulfan S	18.138	0.000 E6	100.0#	0#	-15.79#

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : ex671.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 6:31 pm
 Operator : M.PEDRO
 Sample : kep/fam icv
 Misc : initial cal
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 09:14:20 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

*MW
US*

Target Compounds

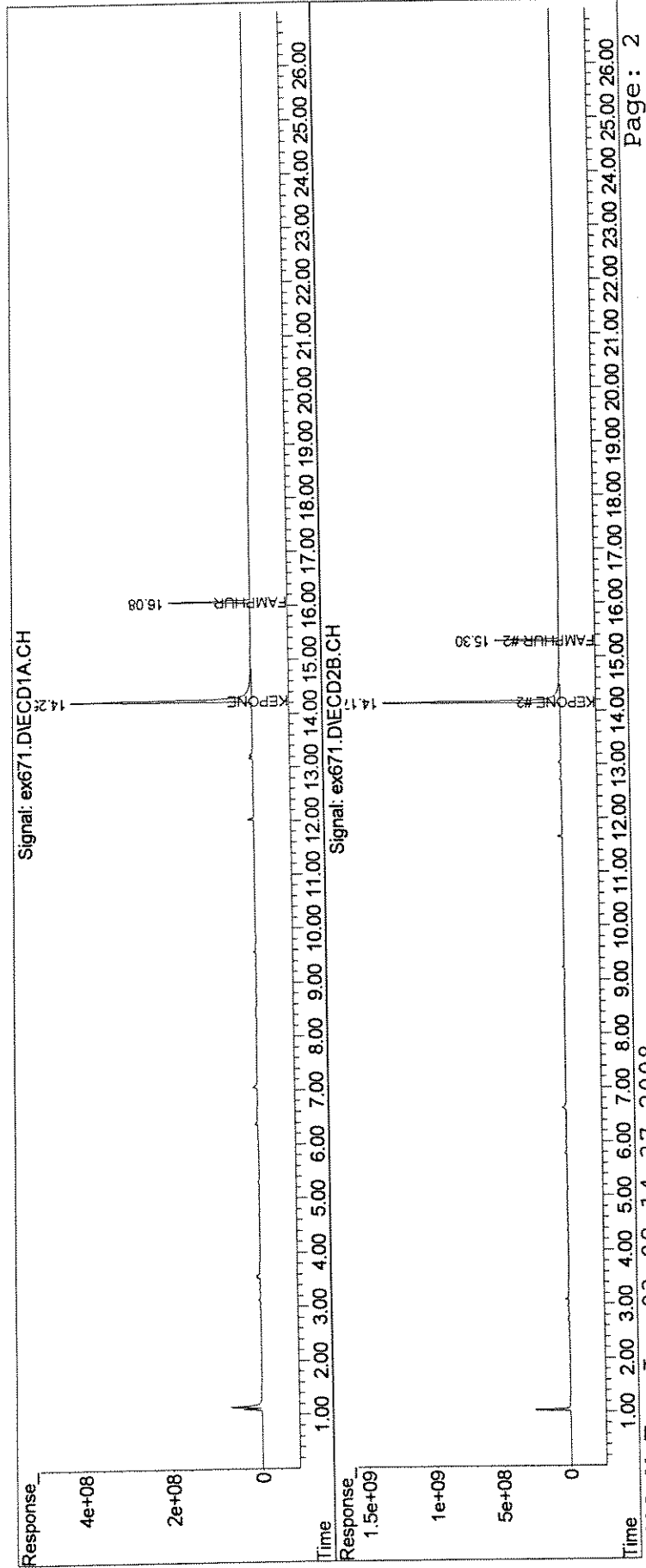
16) tc	KEPONE	14.25	14.17	11724.9E6	31026.8E6	1873.477	1813.637
03) tc	FAMPHUR	16.08	15.31	3224.5E6	8187.9E6	248.111	257.582
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : ex671.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 6:31 pm
Operator : M.PEDRO
Sample : kep/fam icv
Misc : initial cal
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 09:14:20 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 09:00:21 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01321

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex682.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 1:05 am
 Operator : M.PEDRO
 Sample : pest icv
 Misc : initial cal
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 09:15:07 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
3 tc alpha-BHC	30.031	28.948 E6	3.6	96	0.00
4 tcm gamma-BHC (L)	27.489	27.400 E6	0.3	100	0.00
5 tcm Heptachlor	26.908	26.882 E6	0.1	100	0.00
6 tcm Aldrin	24.613	24.163 E6	1.8	98	0.00
7 tc beta-BHC	11.546	11.011 E6	4.6	95	0.00
8 TC delta-BHC	27.657	26.010 E6	6.0	92	0.00
9 tc Heptachlor E	23.041	22.227 E6	3.5	97	0.00
10 tc alpha-Endosu	20.604	21.179 E6	-2.8	104	0.00
11 tc gamma-Chlord	22.791	22.200 E6	2.6	98	0.00
12 tc alpha-Chlord	22.346	20.663 E6	7.5	93	0.00
13 tc 4,4'-DDE	22.482	21.003 E6	6.6	92	0.00
14 tcm Dieldrin	23.283	22.652 E6	2.7	97	0.00
15 tcm Endrin	20.860	20.187 E6	3.2	96	0.00
17 tc beta-Endosul	19.657	18.107 E6	7.9	91	0.00
18 tc 4,4'-DDD	18.810	18.573 E6	1.3	99	0.00
19 tcm 4,4'-DDT	20.032	20.987 E6	-4.8	104	0.00
20 tc Endrin Aldeh	14.779	14.729 E6	0.3	99	0.00
21 tc Endosulfan S	18.138	17.528 E6	3.4	96	0.00
22 tc Methoxychlor	9.870	9.410 E6	4.7	95	0.00
24 tc Endrin Keton	20.882	20.600 E6	1.4	98	0.00

Signal #2

3 tc alpha-BHC	92.467	91.349 E6	1.2	98	0.00
4 tcm gamma-BHC (L)	82.157	82.351 E6	-0.2	100	0.00
5 tcm Heptachlor	79.864	85.912 E6	-7.6	107	0.00
6 tcm Aldrin	74.947	74.059 E6	1.2	98	0.00
7 tc beta-BHC	35.673	34.943 E6	2.0	99	0.00
8 tc delta-BHC	83.093	75.070 E6	9.7	89	0.00
9 tc Heptachlor E	67.193	65.569 E6	2.4	97	0.00

Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : ex682.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 1:05 am
 Operator : M.PEDRO
 Sample : pest icv
 Misc : initial cal
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 09:15:07 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
10 tc alpha-Endosu	59.586	61.379 E6	-3.0	102	0.00
11 tc gamma-Chlord	69.724	68.491 E6	1.8	98	0.00
12 tc alpha-Chlord	66.415	63.054 E6	5.1	95	0.00
13 tc 4,4'-DDE	65.177	63.899 E6	2.0	97	0.00
14 tcm Dieldrin	65.254	66.118 E6	-1.3	100	0.00
15 tcm Endrin	56.721	56.324 E6	0.7	98	0.00
17 tc beta-Endosul	54.846	54.462 E6	0.7	98	0.00
18 tc 4,4'-DDD	51.629	52.103 E6	-0.9	100	0.00
19 tcm 4,4'-DDT	54.800	59.221 E6	-8.1	107	0.00
20 tc Endrin Aldeh	40.233	41.530 E6	-3.2	102	0.00
21 tc Endosulfan S	49.634	48.669 E6	1.9	97	0.00
22 tc Methoxychlor	24.116	23.323 E6	3.3	96	0.00
24 tc Endrin Keton	54.137	55.164 E6	-1.9	101	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	18.833	0.000 E6	100.0#	0#	-9.28#
2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
16 tc KEPONE	6.258	0.000 E6	100.0#	0#	-14.24#
23 tc FAMPHUR	12.996	0.000 E6	100.0#	0#	-16.08#
25 S SURR2,Decachlorobiphenyl	17.080	0.000 E6	100.0#	0#	-17.42#
26 L8C Toxaphene	417.607	0.000 E3	100.0#	0#	-14.60#
27 L8C Toxaphene {2}	374.938	0.000 E3	100.0#	0#	-14.68#
28 L8C Toxaphene {3}	715.141	0.000 E3	100.0#	0#	-15.29#
29 L8C Toxaphene {4}	888.874	0.000 E3	100.0#	0#	-16.15#
30 L8C Toxaphene {5}	675.161	0.000 E3	100.0#	0#	-16.35#
31 L9C Chlordane	765.232	0.000 E3	100.0#	0#	-11.43#
32 L9C Chlordane {2}	1.088	0.000 E6	100.0#	0#	-11.55#
33 L9C Chlordane {3}	999.737	0.000 E3	100.0#	0#	-12.22#
34 L9C Chlordane {4}	2.737	0.000 E6	100.0#	0#	-13.10#

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : ex682.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 1:05 am
 Operator : M.PEDRO
 Sample : pest icv
 Misc : initial cal
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 09:15:07 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Handwritten: 4/3

Target Compounds

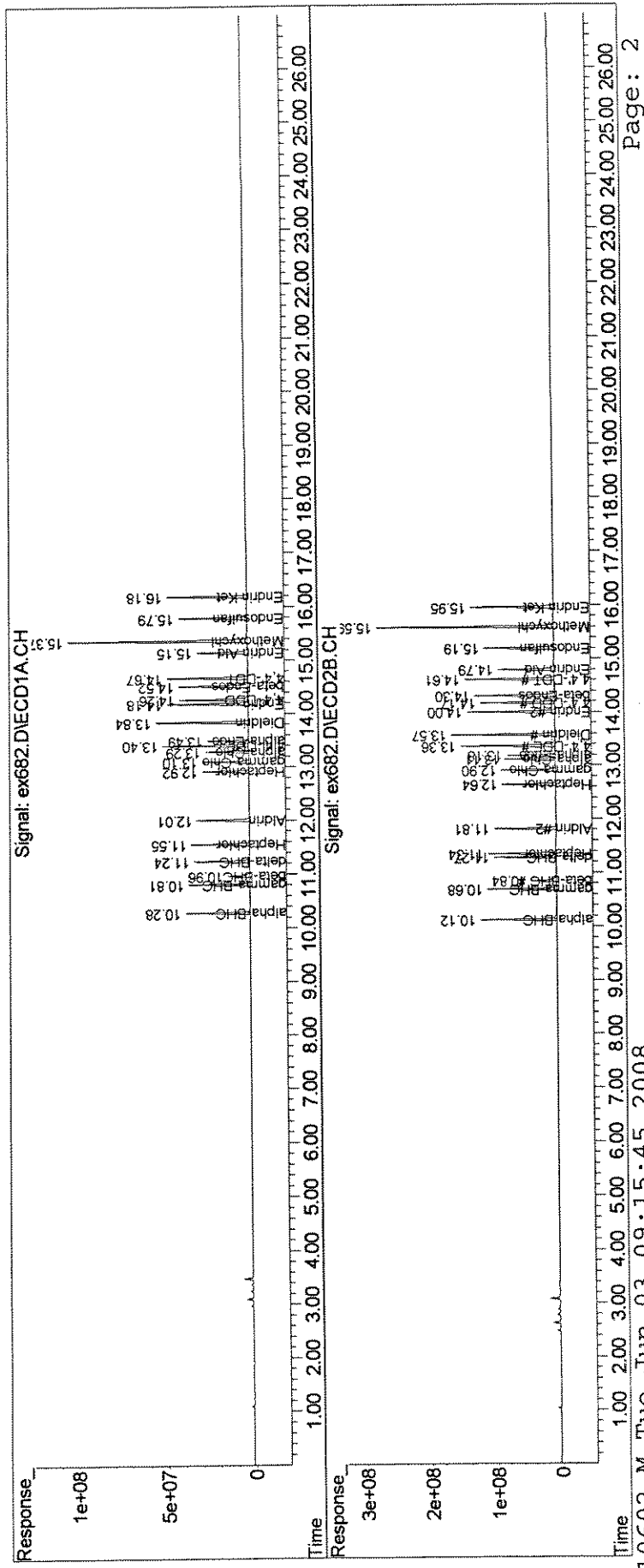
3) tc alpha-BHC	10.28	10.12	579.0E6	1827.0E6	19.279	19.758
4) tcm gamma-BHC (L	10.81	10.68	548.0E6	1647.0E6	19.935	20.047
5) tcm Heptachlor	11.55	11.34	537.6E6	1718.2E6	19.980	21.515
6) tcm Aldrin	12.01	11.81	483.3E6	1481.2E6	19.635	19.763
7) tc beta-BHC	10.96	10.84	220.2E6	698.9E6	19.075	19.591
8) tc delta-BHC	11.24	11.27	520.2E6	1501.4E6	18.809	18.069
9) tc Heptachlor E	12.92	12.64	444.5E6	1311.4E6	19.293	19.517
0) tc alpha-Endosu	13.49	13.18	423.6E6	1227.6E6	20.559	20.602
1) tc gamma-Chlord	13.10	12.91	444.0E6	1369.8E6	19.481	19.646
2) tc alpha-Chlord	13.29	13.11	413.3E6	1261.1E6	18.493	18.988
3) tc 4,4'-DDE	13.40	13.36	840.1E6	2556.0E6	37.369	39.216
4) tcm Dieldrin	13.84	13.57	906.1E6	2644.7E6	38.916	40.530
5) tcm Endrin	14.18	14.00	807.5E6	2253.0E6	38.710	39.720
7) tc beta-Endosul	14.52	14.30	724.3E6	2178.5E6	36.845	39.720
8) tc 4,4'-DDD	14.27	14.17	742.9E6	2084.1E6	39.496	40.367
9) tcm 4,4'-DDT	14.67	14.61	839.5E6	2368.8E6	41.908	43.227
0) tc Endrin Aldeh	15.15	14.79	589.1E6	1661.2E6	39.865	41.289
1) tc Endosulfan S	15.79	15.19	701.1E6	1946.8E6	38.655	39.222
2) tc Methoxychlor	15.37	15.59	1882.1E6	4664.6E6	190.692	193.424
4) tc Endrin Keton	16.19	15.95	824.0E6	2206.5E6	39.460	40.759
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : ex682.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2008 1:05 am
Operator : M.PEDRO
Sample : pest icv
Misc : initial cal
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 09:15:07 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 09:00:21 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01325

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex683.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 1:40 am
 Operator : M.PEDRO
 Sample : tox icv
 Misc : initial cal
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 09:16:08 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
26 L8C Toxaphene	417.607	440.007 E3	-5.4	106	0.00
27 L8C Toxaphene {2}	374.938	366.661 E3	2.2	106	0.00
28 L8C Toxaphene {3}	715.141	736.848 E3	-3.0	108	0.00
29 L8C Toxaphene {4}	888.874	894.086 E3	-0.6	109	0.00
30 L8C Toxaphene {5}	675.161	702.423 E3	-4.0	108	0.00

Signal #2

26 L8C Toxaphene	1.638	1.642 E6	-0.2	107	0.00
27 L8C Toxaphene {2}	769.293	791.716 E3	-2.9	109	0.00
28 L8C Toxaphene {3}	1.652	1.713 E6	-3.7	109	0.00
29 L8C Toxaphene {4}	1.627	1.694 E6	-4.1	110	0.00
30 L8C Toxaphene {5}	1.742	1.849 E6	-6.1	111	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1, Tetrac	18.833	0.000 E6	100.0#	0#	-9.28#
2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
3 tc alpha-BHC	30.031	0.000 E6	100.0#	0#	-10.28#
4 tcm gamma-BHC (L	27.489	0.000 E6	100.0#	0#	-10.81#
5 tcm Heptachlor	26.908	0.000 E6	100.0#	0#	-11.55#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#
7 tc beta-BHC	11.546	0.000 E6	100.0#	0#	-10.96#
8 TC delta-BHC	27.657	0.000 E6	100.0#	0#	-11.24#
9 tc Heptachlor E	23.041	0.000 E6	100.0#	0#	-12.92#
10 tc alpha-Endosu	20.604	0.000 E6	100.0#	0#	-13.49#
11 tc gamma-Chlord	22.791	0.000 E6	100.0#	0#	-13.10#
12 tc alpha-Chlord	22.346	0.000 E6	100.0#	0#	-13.29#
13 tc 4,4'-DDE	22.482	0.000 E6	100.0#	0#	-13.40#
14 tcm Dieldrin	23.283	0.000 E6	100.0#	0#	-13.84#

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex683.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 1:40 am
 Operator : M.PEDRO
 Sample : tox icv
 Misc : initial cal
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 09:16:08 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

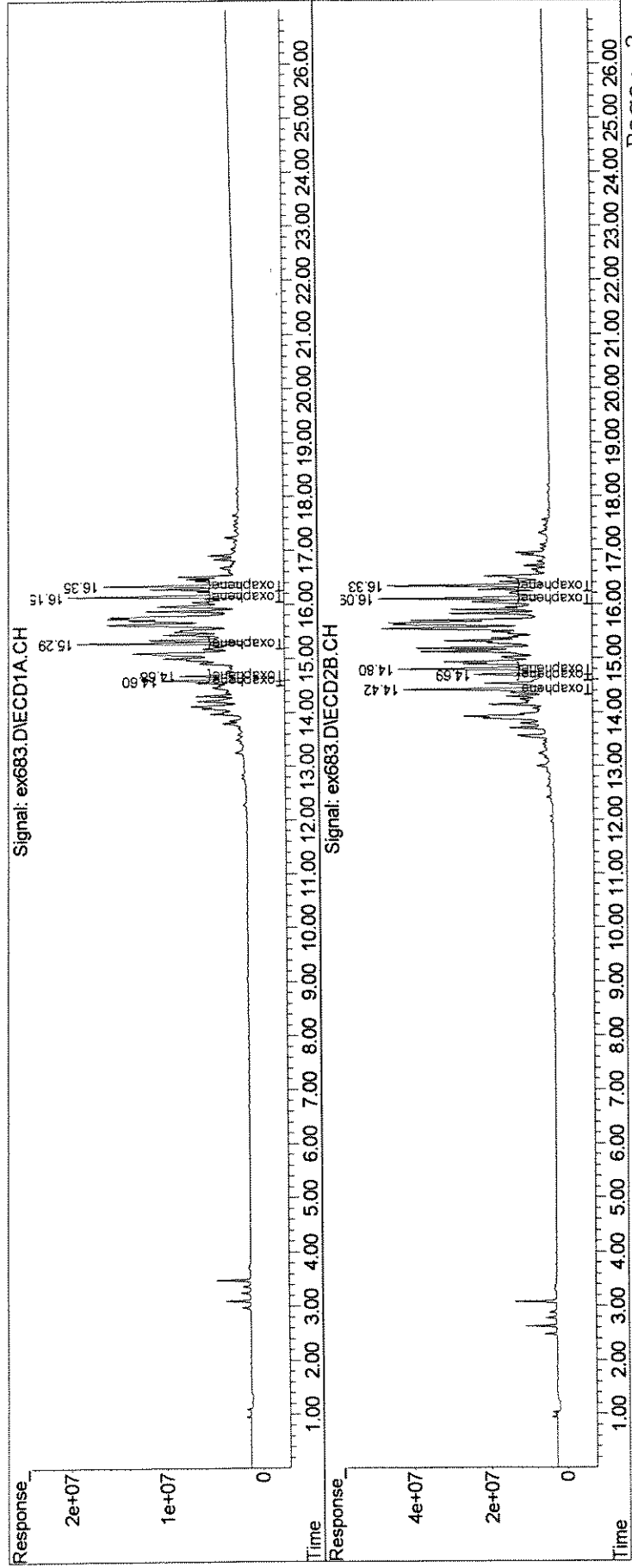
System Monitoring Compounds						
Target Compounds						
26) L8C Toxaphene	14.60	14.42	220.0E6	820.9E6	526.819	501.036
27) L8C Toxaphene {2}	14.68	14.69	183.3E6	395.9E6	488.962	514.574
28) L8C Toxaphene {3}	15.29	14.80	368.4E6	856.4E6	515.177	518.362
29) L8C Toxaphene {4}	16.15	16.09	447.0E6	846.8E6	502.932	520.626
L8C Toxaphene {5}	16.35	16.33	351.2E6	924.4E6	520.190	530.741
Sum Toxaphene			1570.0E6	3844.4E6	2554.080	2585.339
Average Toxaphene					510.816	517.068
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex683.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 1:40 am
 Operator : M.PEDRO
 Sample : tox icv
 Misc : initial cal
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 09:16:08 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



91322

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex684.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 2:16 am
 Operator : M.PEDRO
 Sample : chlor icv
 Misc : initial cal
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 09:16:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31 L9C Chlordane	765.232	795.559 E3	-4.0	105	0.00
32 L9C Chlordane {2}	1.088	1.137 E6	-4.5	105	0.00
33 L9C Chlordane {3}	999.737	1044.839 E3	-4.5	105	0.00
34 L9C Chlordane {4}	2.737	2.909 E6	-6.3	106	0.00
35 L9C Chlordane {5}	959.997	988.920 E3	-3.0	101	0.00

Signal #2

31 L9C Chlordane	2.519	2.664 E6	-5.8	105	0.00
32 L9C Chlordane {2}	3.420	3.639 E6	-6.4	106	0.00
33 L9C Chlordane {3}	2.776	2.952 E6	-6.3	106	0.00
34 L9C Chlordane {4}	7.913	8.484 E6	-7.2	106	0.00
35 L9C Chlordane {5}	3.045	3.068 E6	-0.8	104	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1, Tetrac	18.833	0.000 E6	100.0#	0#	-9.28#
2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
3 tc alpha-BHC	30.031	0.000 E6	100.0#	0#	-10.28#
4 tcm gamma-BHC (L	27.489	0.000 E6	100.0#	0#	-10.81#
5 tcm Heptachlor	26.908	0.000 E6	100.0#	0#	-11.55#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#
7 tc beta-BHC	11.546	0.000 E6	100.0#	0#	-10.96#
8 TC delta-BHC	27.657	0.000 E6	100.0#	0#	-11.24#
9 tc Heptachlor E	23.041	0.000 E6	100.0#	0#	-12.92#
10 tc alpha-Endosu	20.604	0.000 E6	100.0#	0#	-13.49#
11 tc gamma-Chlord	22.791	0.000 E6	100.0#	0#	-13.10#
12 tc alpha-Chlord	22.346	0.000 E6	100.0#	0#	-13.29#
13 tc 4,4'-DDE	22.482	0.000 E6	100.0#	0#	-13.40#
14 tcm Dieldrin	23.283	0.000 E6	100.0#	0#	-13.84#

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex684.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 2:16 am
 Operator : M.PEDRO
 Sample : chlor icv
 Misc : initial cal
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 03 09:16:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

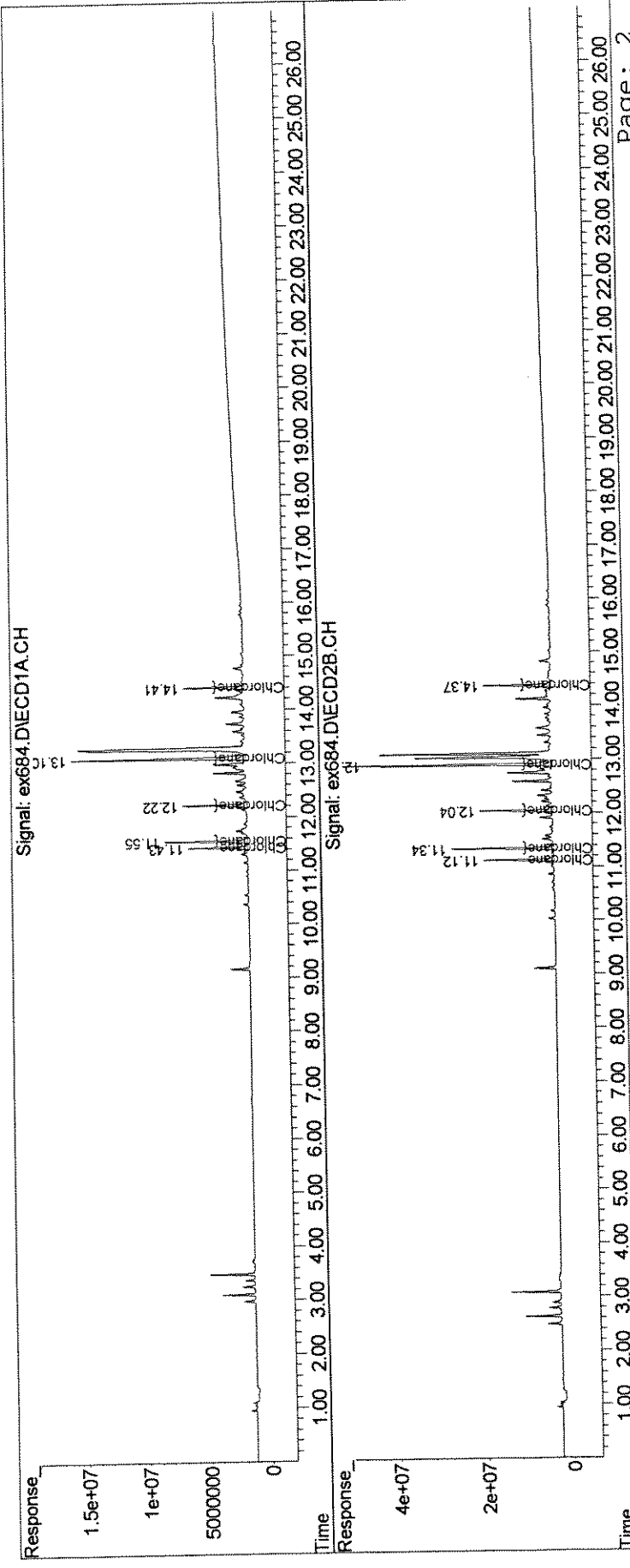
Target Compounds	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
31) L9C Chlordane	11.43	11.12	79555900	266.4E6	103.963	105.760
32) L9C Chlordane {2}	11.55	11.34	113.7E6	363.9E6	104.532	106.395
33) L9C Chlordane {3}	12.22	12.04	104.5E6	295.2E6	104.511	106.321
34) L9C Chlordane {4}	13.10	12.90	290.9E6	848.4E6	106.279	107.209
35) L9C Chlordane {5}	14.41	14.37	98892038	306.8E6	103.013	100.750
Sum Chlordane			687.5E6	2080.6E6	522.298	526.435
Average Chlordane					104.460	105.287

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : ex684.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2008 2:16 am
Operator : M.PEDRO
Sample : chlor icv
Misc : initial cal
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 09:16:49 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 09:00:21 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Pesticide Initial Calibration of Multicomponent Analytes

Lab Name: Columbia Analytical Services Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
 Instrument ID: 6890D Date Analyzed: 7/10/2008

Compound	GC Column(1) <u>STx-CLP</u> (ID): <u>0.32mm 30</u>			GC Column(2) <u>STx-CLPII</u> (ID): <u>0.32mm 30</u>		
	RT	RT Window From To		RT	RT Window From To	
SURR1,Tetrac	9.44	9.39	9.49	9.32	9.27	9.37
HEXACHLOROBEN	10.13	10.06	10.20	10.14	10.07	10.21
alpha-BHC	10.44	10.39	10.49	10.40	10.35	10.45
gamma-BHC (L	10.97	10.92	11.02	10.97	10.92	11.02
Heptachlor	11.73	11.68	11.78	11.64	11.59	11.69
Aldrin	12.18	12.13	12.23	12.12	12.07	12.17
beta-BHC	11.12	11.07	11.17	11.12	11.07	11.17
delta-BHC	11.40	11.35	11.45	11.56	11.51	11.61
Heptachlor E	13.10	13.03	13.17	12.96	12.89	13.03
alpha-Endosu	13.68	13.61	13.75	13.52	13.45	13.59
gamma-Chlord	13.28	13.21	13.35	13.23	13.16	13.30
alpha-Chlord	13.48	13.41	13.55	13.44	13.37	13.51
4,4'-DDE	13.58	13.51	13.65	13.68	13.61	13.75
Dieldrin	14.03	13.96	14.10	13.91	13.84	13.98
Endrin	14.38	14.31	14.45	14.36	14.29	14.43
KEPONE	14.44	14.37	14.51	14.52	14.45	14.59
beta-Endosul	14.72	14.65	14.79	14.66	14.59	14.73
4,4'-DDD	14.46	14.39	14.53	14.50	14.43	14.57
4,4'-DDT	14.87	14.80	14.94	14.96	14.89	15.03
Endrin Aldeh	15.35	15.28	15.42	15.16	15.09	15.23
Endosulfan S	15.99	15.92	16.06	15.57	15.50	15.64
Methoxychlor	15.57	15.50	15.64	15.93	15.86	16.00
FAMPHUR	16.26	16.19	16.33	15.66	15.59	15.73
Endrin Keton	16.38	16.31	16.45	16.32	16.25	16.39
SURR2,Decachlorobip	17.62	17.52	17.72	17.86	17.76	17.96
Toxaphene	14.80	14.73	14.87	14.78	14.71	14.85
Toxaphene	14.89	14.82	14.96	15.06	14.99	15.13
Toxaphene	15.50	15.43	15.57	15.17	15.10	15.24

Pesticide Initial Calibration of Multicomponent Analytes

Lab Name: Columbia Analytical Services Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
 Instrument ID: 6890D Date Analyzed: 7/10/2008

GC Column(1) STx-CLP (ID): 0.32mm 30 | GC Column(2) STx-CLPII (ID): 0.32mm 30

Compound	RT	RT Window		RT	RT Window	
		From	To		From	To
Toxaphene	16.35	16.28	16.42	16.45	16.38	16.52
Toxaphene	16.54	16.47	16.61	16.68	16.61	16.75
Chlordane	11.60	11.53	11.67	11.42	11.35	11.49
Chlordane	11.72	11.65	11.79	11.64	11.57	11.71
Chlordane	12.40	12.33	12.47	12.35	12.28	12.42
Chlordane	13.28	13.21	13.35	13.23	13.16	13.30
Chlordane	14.61	14.54	14.68	14.73	14.66	14.80

Response Factor Report 6890D

Method Path : J:\ACQUADATA\6890D\METHODS\
 Method File : 80810710.M
 Title : 608/8081A PESTICIDES
 Last Update : Fri Jul 11 13:38:39 2008
 Response Via : Initial Calibration

Calibration Files

1 =ey040.D 2 =ey039.D 3 =ey038.D
 4 =ey037.D 5 =ey036.D

Compound	1	2	3	4	5	Avg	%RSD
1) S SURR1,Tetrac	2.072	2.066	2.024	1.987	1.942	2.018 E7	2.71
2) TC HEXACHLOROBENZENE	2.817	2.786	2.862	2.968	3.259	2.939 E7	6.52
3) tc alpha-BHC	3.302	3.265	3.139	2.984	2.768	3.092 E7	7.11
4) tcm gamma-BHC (L	2.976	2.938	2.850	2.754	2.586	2.821 E7	5.55
5) tcm Heptachlor	2.869	2.879	2.823	2.756	2.645	2.794 E7	3.45
6) tcm Aldrin	2.616	2.561	2.501	2.432	2.270	2.476 E7	5.40
7) tc beta-BHC	1.184	1.149	1.125	1.129	1.155	1.148 E7	2.05
8) TC delta-BHC	2.941	2.850	2.743	2.620	2.445	2.720 E7	7.16
9) tc Heptachlor E	2.339	2.306	2.283	2.266	2.187	2.276 E7	2.49
10) tc alpha-Endosu	2.119	2.103	2.050	2.009	1.950	2.046 E7	3.38
11) tc gamma-Chlord	2.316	2.242	2.182	2.143	2.080	2.192 E7	4.14
12) tc alpha-Chlord	2.241	2.177	2.125	2.116	2.036	2.139 E7	3.57
13) tc 4,4'-DDE	2.269	2.251	2.198	2.153	2.020	2.178 E7	4.58
14) tcm Dieldrin	2.352	2.377	2.323	2.249	2.121	2.284 E7	4.51
15) tcm Endrin	2.149	2.161	2.099	2.033	1.916	2.072 E7	4.86
16) tc KEPONE	7.245	7.448	7.866	7.073	6.947	7.316 E6	4.93
17) tc beta-Endosul	1.931	1.900	1.869	1.853	1.742	1.859 E7	3.88
18) tc 4,4'-DDD	1.881	1.866	1.760	1.771	1.719	1.799 E7	3.92
19) tcm 4,4'-DDT	2.037	2.006	1.955	1.837	1.733	1.914 E7	6.60
20) tc Endrin Aldeh	1.537	1.491	1.478	1.442	1.391	1.468 E7	3.72
21) tc Endosulfan S	1.752	1.713	1.683	1.647	1.628	1.685 E7	2.96
22) tc Methoxychlor	9.056	9.410	9.489	9.446	9.163	9.313 E6	2.05
23) tc FAMPHUR	1.368	1.349	1.381	1.304	1.382	1.357 E7	2.39
24) tc Endrin Keton	2.016	1.980	1.941	1.908	1.837	1.936 E7	3.56
25) S SURR2,Decachlorobiphe	1.734	1.736	1.755	1.766	1.742	1.747 E7	0.77
26) L8C Toxaphene	4.434	4.272	3.868	3.906	3.463	3.989 E5	9.52
27) L8C Toxaphene {2}	3.697	3.864	3.135	3.774	3.318	3.558 E5	8.84
28) L8C Toxaphene {3}	7.460	7.255	6.396	6.539	6.003	6.730 E5	9.05
29) L8C Toxaphene {4}	9.022	8.758	7.774	8.004	7.368	8.185 E5	8.42
30) L8C Toxaphene {5}	7.460	7.237	6.348	6.466	5.771	6.656 E5	10.35
31) L9C Chlordane	8.222	8.007	7.903	7.812	7.920	7.973 E5	1.95
32) L9C Chlordane {2}	1.179	1.149	1.126	1.094	1.085	1.127 E6	3.45
33) L9C Chlordane {3}	0.995	0.995	1.027	1.049	1.091	1.032 E6	3.91
34) L9C Chlordane {4}	2.933	2.863	2.781	2.689	2.568	2.767 E6	5.19
35) L9C Chlordane {5}	0.936	0.908	0.903	0.912	1.013	0.934 E6	4.89

Signal #2 Calibration Files

1 =ey040.D 2 =ey039.D 3 =ey038.D
 4 =ey037.D 5 =ey036.D

Compound	1	2	3	4	5	Avg	%RSD
1) S SURR1,Tetrac	7.722	8.021	8.178	8.344	8.194	8.092 E7	2.92
2) TC HEXACHLOROBENZENE	1.091	1.102	1.164	1.247	1.473	1.215 E8	12.91
3) tc alpha-BHC	1.167	1.201	1.209	1.205	1.152	1.187 E8	2.16
4) tcm gamma-BHC (L	1.039	1.066	1.068	1.063	1.017	1.051 E8	2.11



Response Factor Report 6890D

Method Path : J:\ACQUADATA\6890D\METHODS\
 Method File : 80810710.M
 Title : 608/8081A PESTICIDES
 Last Update : Fri Jul 11 13:38:39 2008
 Response Via : Initial Calibration

Calibration Files
 1 =ey040.D 2 =ey039.D 3 =ey038.D
 4 =ey037.D 5 =ey036.D

Compound	1	2	3	4	5	Avg	%RSD
5) tcm Heptachlor	0.926	0.986	1.022	1.051	1.034	1.004 E8	4.93
6) tcm Aldrin	8.862	9.134	9.278	9.316	8.957	9.109 E7	2.17
7) tc beta-BHC	4.450	4.441	4.510	4.601	4.563	4.513 E7	1.54
8) tc delta-BHC	1.034	1.047	1.050	1.042	0.989	1.032 E8	2.43
9) tc Heptachlor E	7.618	7.923	8.147	8.351	8.159	8.040 E7	3.48
10) tc alpha-Endosu	6.804	7.099	7.297	7.140	7.146	7.097 E7	2.55
11) tc gamma-Chlord	8.117	8.221	8.259	8.266	8.150	8.203 E7	0.81
12) tc alpha-Chlord	7.719	7.783	7.826	7.857	7.650	7.767 E7	1.08
13) tc 4,4'-DDE	7.386	7.671	7.821	7.877	7.571	7.665 E7	2.58
14) tcm Dieldrin	7.354	7.810	7.994	8.121	7.844	7.824 E7	3.72
15) tcm Endrin	6.563	6.793	7.048	6.649	6.624	6.736 E7	2.88
16) tc KEPONE	2.256	2.407	2.395	2.230	2.209	2.299 E7	4.10
17) tc beta-Endosul	6.154	6.331	6.503	6.602	6.508	6.420 E7	2.77
18) tc 4,4'-DDD	6.062	6.278	6.298	6.323	6.159	6.224 E7	1.78
19) tcm 4,4'-DDT	6.535	6.671	6.661	6.603	6.284	6.551 E7	2.42
20) tc Endrin Aldeh	4.818	4.862	4.983	4.998	4.864	4.905 E7	1.64
21) tc Endosulfan S	5.632	5.698	5.796	5.809	5.638	5.715 E7	1.48
22) tc Methoxychlor	2.716	2.870	2.958	3.012	2.971	2.905 E7	4.06
23) tc FAMPHUR	4.121	4.088	4.210	4.030	4.443	4.178 E7	3.87
24) tc Endrin Keton	6.216	6.287	6.363	6.362	6.138	6.273 E7	1.55
25) S SURR2,Decachlorobiphe	5.395	5.447	5.563	5.537	5.595	5.508 E7	1.52
26) L8C Toxaphene	2.033	1.991	1.807	1.906	1.938	1.935 E6	4.46
27) L8C Toxaphene { 2 }	9.668	9.405	8.550	8.957	8.529	9.022 E5	5.64
28) L8C Toxaphene { 3 }	1.999	1.959	1.763	1.849	1.778	1.869 E6	5.67
29) L8C Toxaphene { 4 }	2.069	2.028	1.810	1.898	1.825	1.926 E6	6.10
30) L8C Toxaphene { 5 }	2.473	2.422	2.144	2.217	2.026	2.256 E6	8.34
31) L9C Chlordane	3.231	3.241	3.261	3.234	3.199	3.233 E6	0.69
32) L9C Chlordane { 2 }	4.448	4.552	4.594	4.512	4.391	4.500 E6	1.80
33) L9C Chlordane { 3 }	3.379	3.475	3.609	3.661	3.775	3.580 E6	4.34
34) L9C Chlordane { 4 }	1.009	1.020	1.023	0.991	0.967	1.002 E7	2.32
35) L9C Chlordane { 5 }	3.528	3.483	3.445	3.420	3.761	3.527 E6	3.87

(#) = Out of Range

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : EY036.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 4:22 pm
 Operator : M.PEDRO
 Sample : indal
 Misc : initial cal
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:17:54 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

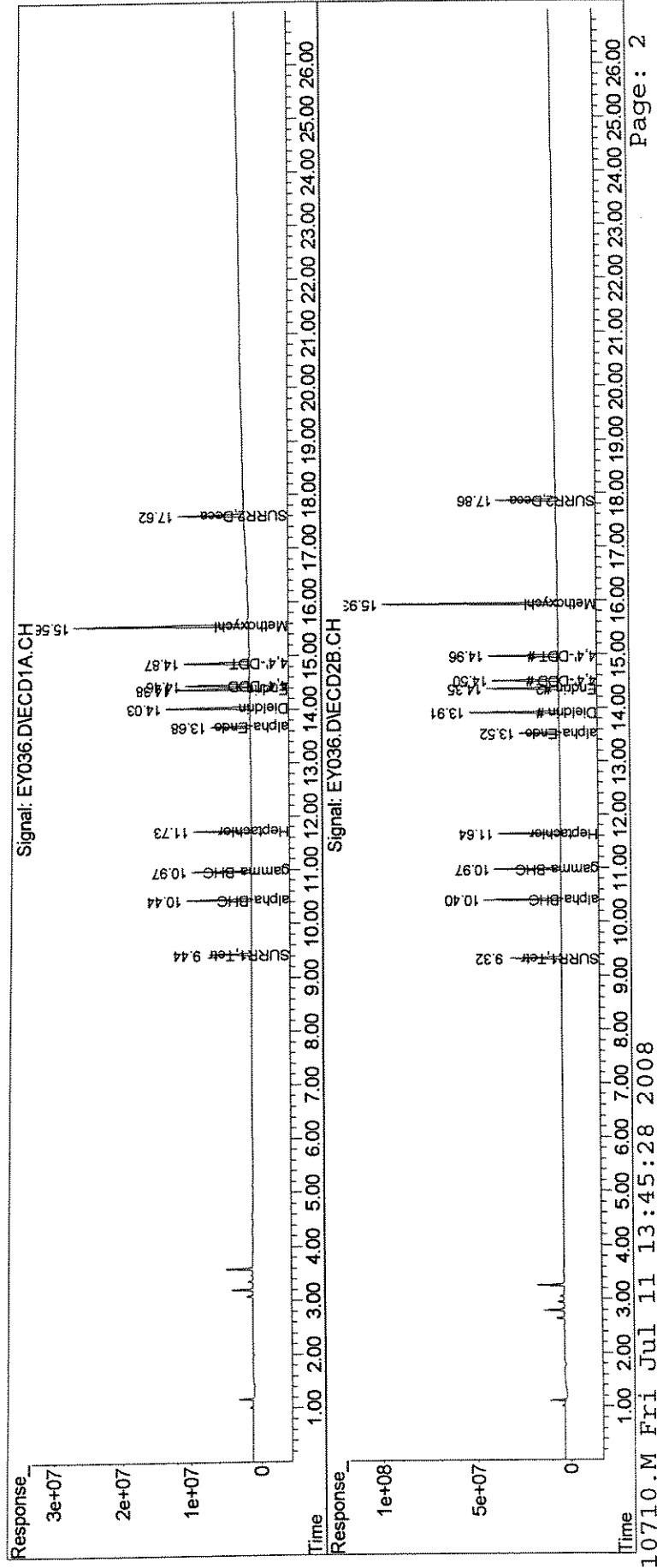
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	97082202	409.7E6	5.262	6.970 #
Spiked Amount	100.000	Range	30 - 150	Recovery =	5.26%#	6.97%#
5) S SURR2,Decachloro	17.62	17.86	174.2E6	559.5E6	10.180m	12.981m#
Spiked Amount	100.000	Range	30 - 150	Recovery =	10.18%#	12.98%#
Target Compounds						
3) tc alpha-BHC	10.44	10.40	138.4E6	576.0E6	4.848	6.467 #
4) tcm gamma-BHC (L)	10.97	10.97	129.3E6	508.5E6	4.985	6.292 #
5) tcm Heptachlor	11.73	11.64	132.3E6	516.8E6	5.003	6.513 #
0) tc alpha-Endosu	13.68	13.52	97505664	357.3E6	4.903	6.274 #
4) tcm Dieldrin	14.03	13.91	212.1E6	784.4E6	9.521	12.848 #
5) tcm Endrin	14.38	14.36	191.6E6	662.4E6	9.496	11.954 #
8) tc 4,4'-DDD	14.46	14.50	171.9E6	615.9E6	10.160	13.495 #
9) tcm 4,4'-DDT	14.87	14.96	173.3E6	628.4E6	9.367	12.977 #
2) tc Methoxychlor	15.57	15.93	458.1E6	1485.3E6	52.469	69.532 #
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY036.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 4:22 pm
 Operator : M.PEDRO
 Sample : indal
 Misc : initial cal
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:17:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

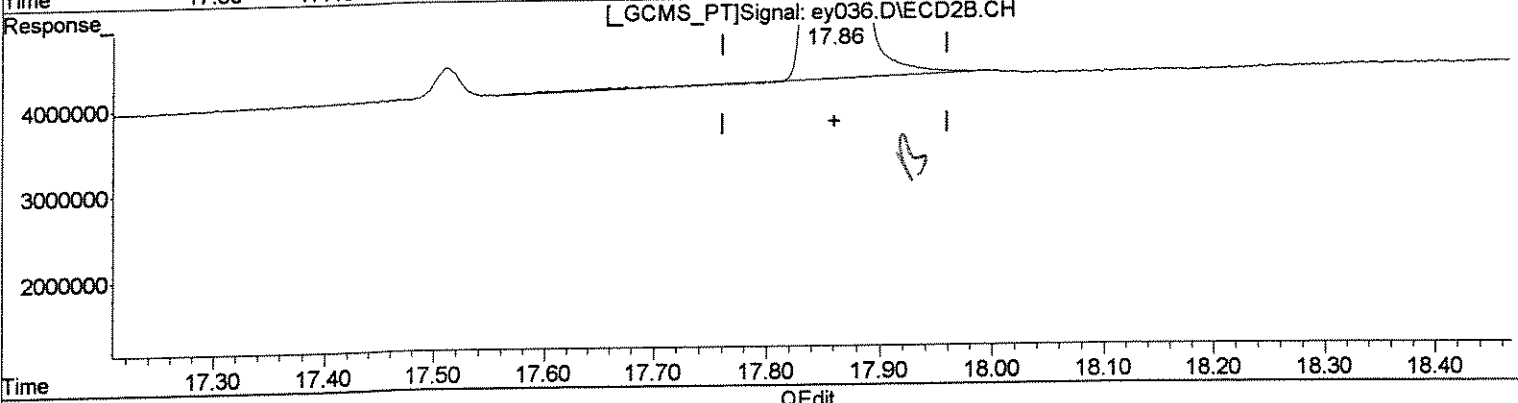
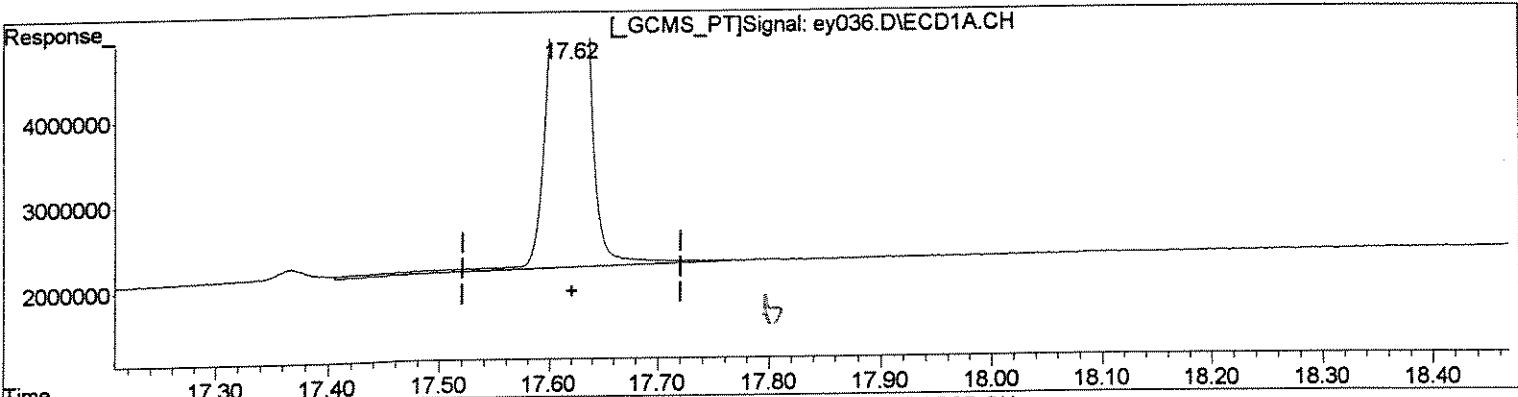


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 4:22 pm
Operator : M.PEDRO
Sample : indal
Misc : initial cal
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.62min 10.429ug/l
response 178455978

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 12.928ug/l
response 557208848

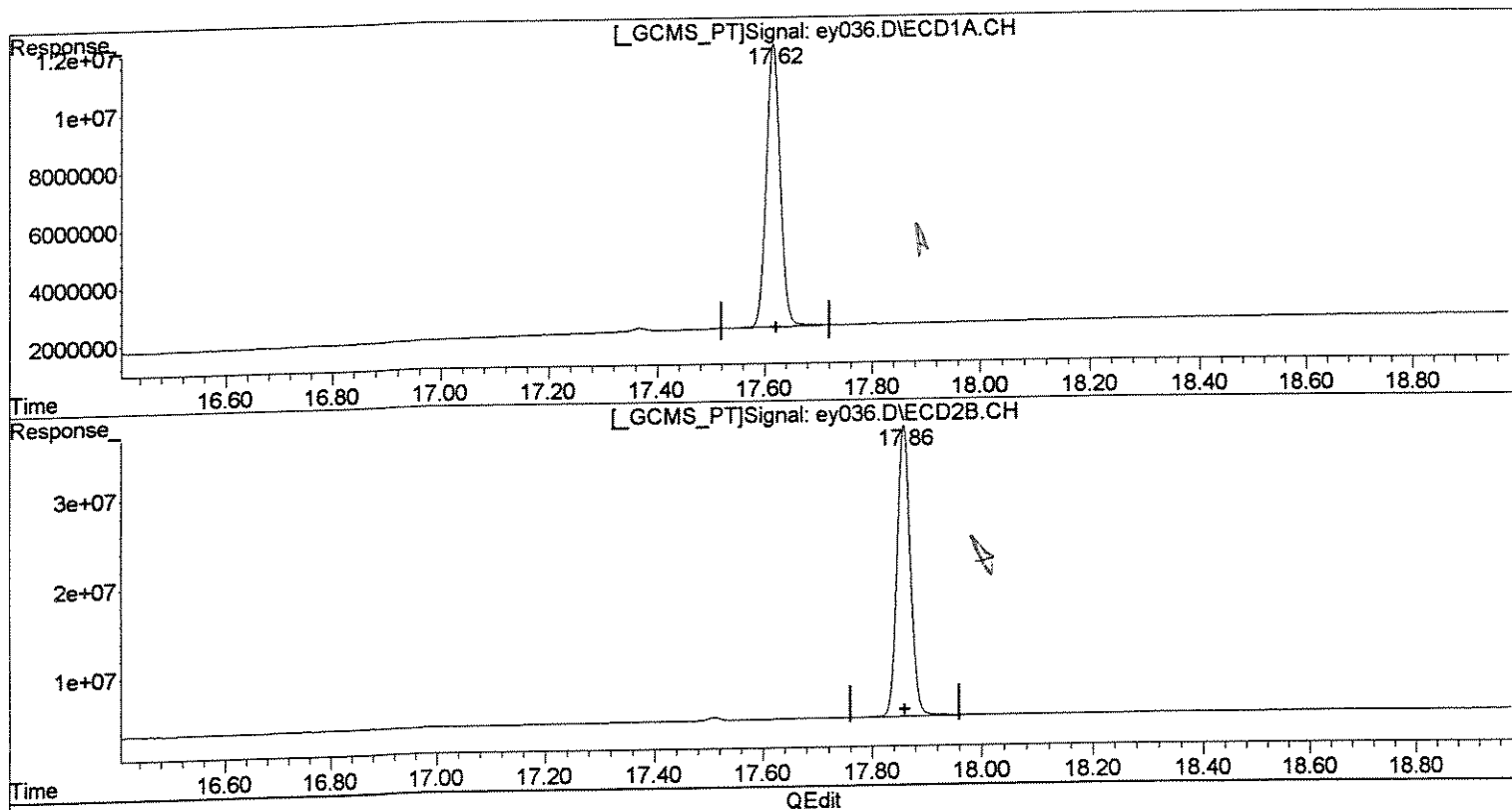
back

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 4:22 pm
Operator : M.PEDRO
Sample : indal
Misc : initial cal
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.62min 10.180ug/l m
response 174185870

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 12.981ug/l m
response 559510438

Handwritten: 12/1/11

Handwritten: MW 7/11

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY037.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 4:58 pm
 Operator : M.PEDRO
 Sample : indaml
 Misc : initial cal
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:18:33 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

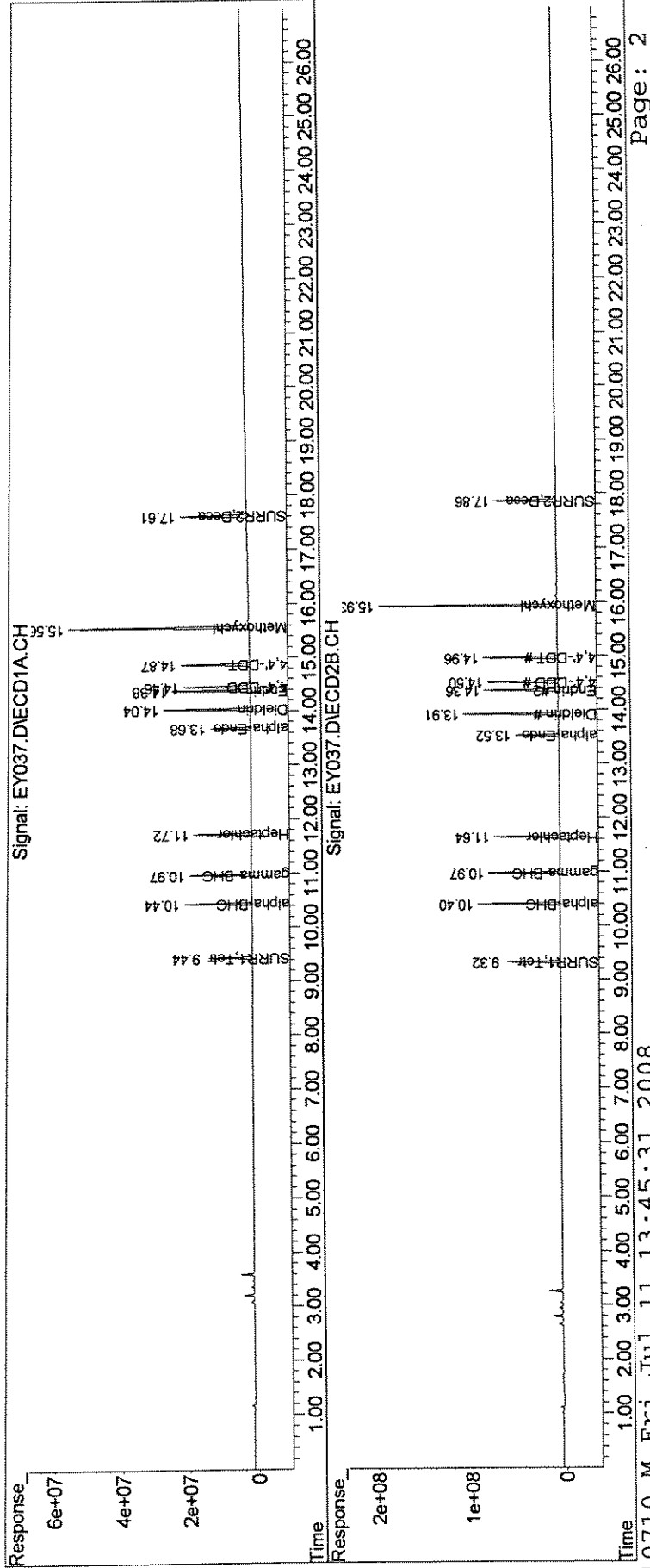
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	198.7E6	834.4E6	10.772	14.196 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		10.77%#	14.20%#
5) S SURR2,Decachloro	17.62	17.86	353.1E6	1107.5E6	20.637	25.694 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.64%#	25.69%#
Target Compounds						
3) tc alpha-BHC	10.44	10.40	298.4E6	1204.8E6	10.456	13.526 #
4) tcm gamma-BHC (L	10.97	10.97	275.4E6	1063.5E6	10.615	13.159
5) tcm Heptachlor	11.73	11.64	275.6E6	1050.7E6	10.424	13.242 #
0) tc alpha-Endosu	13.68	13.52	200.9E6	714.0E6	10.099	12.537
4) tcm Dieldrin	14.04	13.91	449.8E6	1624.3E6	20.191	26.606 #
5) tcm Endrin	14.38	14.36	406.7E6	1329.9E6	20.155	23.998
8) tc 4,4'-DDD	14.46	14.50	354.2E6	1264.7E6	20.936	27.710 #
9) tcm 4,4'-DDT	14.87	14.96	367.4E6	1320.5E6	19.854	27.269 #
2) tc Methoxychlor	15.57	15.93	944.6E6	3012.0E6	108.184	141.000 #
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY037.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 4:58 pm
 Operator : M.PEDRO
 Sample : indaml
 Misc : initial cal
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:18:33 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



1719

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY038.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 5:33 pm
 Operator : M.PEDRO
 Sample : indam
 Misc : initial cal
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:19:21 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

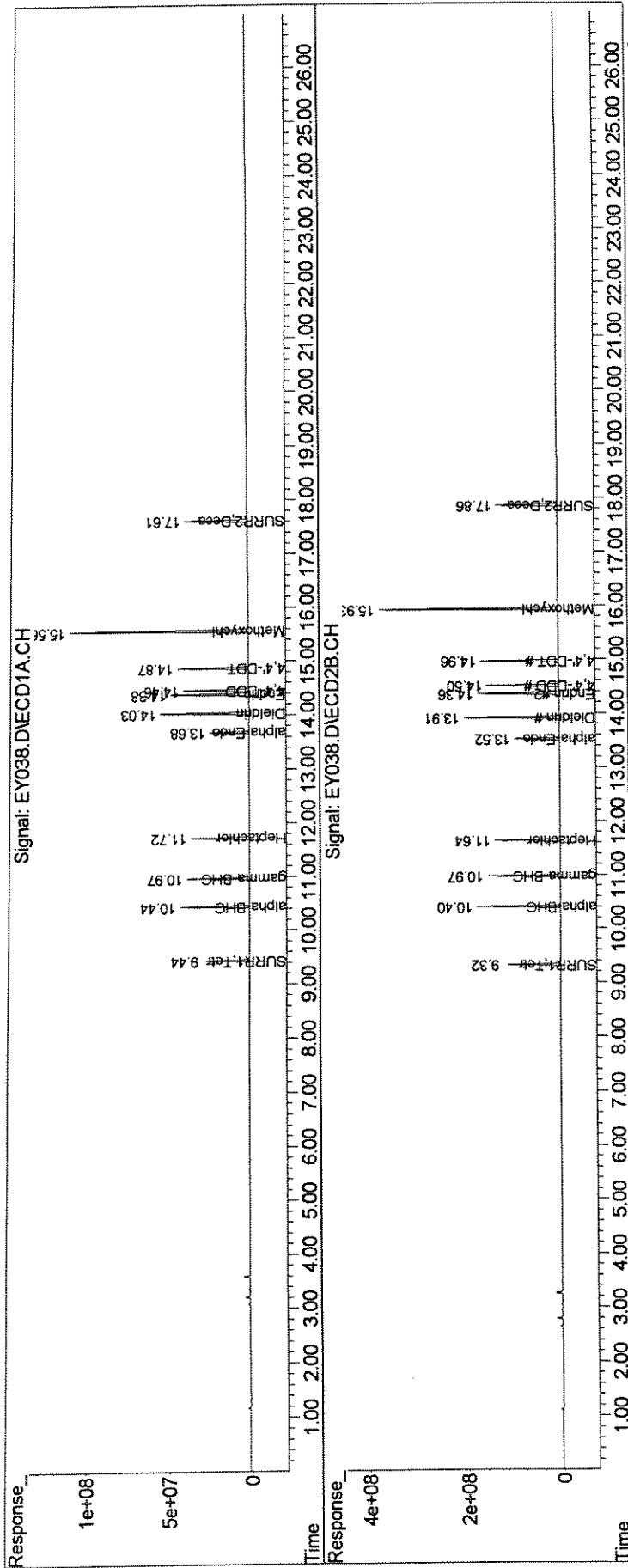
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	404.7E6	1635.7E6	21.936	27.829 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		21.94%#	27.83%#
5) S SURR2,Decachloro	17.62	17.86	702.0E6	2225.3E6	41.028	51.629 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		41.03%	51.63%
Target Compounds						
3) tc alpha-BHC	10.44	10.40	627.9E6	2417.9E6	21.999	27.144
4) tcm gamma-BHC (L	10.97	10.97	570.0E6	2135.3E6	21.973	26.420
5) tcm Heptachlor	11.72	11.64	564.6E6	2044.5E6	21.354	25.767
0) tc alpha-Endosu	13.68	13.52	410.0E6	1459.5E6	20.618	25.626
4) tcm Dieldrin	14.03	13.91	929.1E6	3197.5E6	41.702	52.376 #
5) tcm Endrin	14.38	14.36	839.8E6	2819.2E6	41.620	50.874
8) tc 4,4'-DDD	14.46	14.50	704.1E6	2519.1E6	41.617	55.197 #
9) tcm 4,4'-DDT	14.87	14.96	782.2E6	2664.4E6	42.268	55.020 #
2) tc Methoxychlor	15.57	15.93	1897.7E6	5916.8E6	217.348	276.977 #
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY038.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 5:33 pm
 Operator : M.PEDRO
 Sample : indam
 Misc : initial cal
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:19:21 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



80810710.M

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY039.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 6:09 pm
 Operator : M.PEDRO
 Sample : indamh
 Misc : initial cal
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:20:06 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	826.3E6	3208.5E6	44.783	54.588
Spiked Amount	100.000	Range 30 - 150	Recovery =		44.78%	54.59%
5) S SURR2,Decachloro	17.61	17.86	1388.6E6	4357.3E6	81.150	101.092
Spiked Amount	100.000	Range 30 - 150	Recovery =		81.15%	101.09%
Target Compounds						
3) tc alpha-BHC	10.44	10.40	1305.8E6	4804.3E6	45.751	53.935
4) tcm gamma-BHC (L	10.97	10.97	1175.0E6	4265.5E6	45.296	52.778
5) tcm Heptachlor	11.73	11.64	1151.4E6	3942.2E6	43.550	49.683
0) tc alpha-Endosu	13.68	13.52	841.0E6	2839.6E6	42.290	49.859
4) tcm Dieldrin	14.03	13.91	1901.4E6	6247.8E6	85.342	102.342
5) tcm Endrin	14.38	14.36	1729.0E6	5434.2E6	85.692	98.063
8) tc 4,4'-DDD	14.46	14.50	1492.8E6	5022.6E6	88.234	110.050
9) tcm 4,4'-DDT	14.87	14.96	1605.0E6	5336.8E6	86.732	110.206 #
2) tc Methoxychlor	15.56	15.93	3764.0E6	11479.8E6	431.095	537.392
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

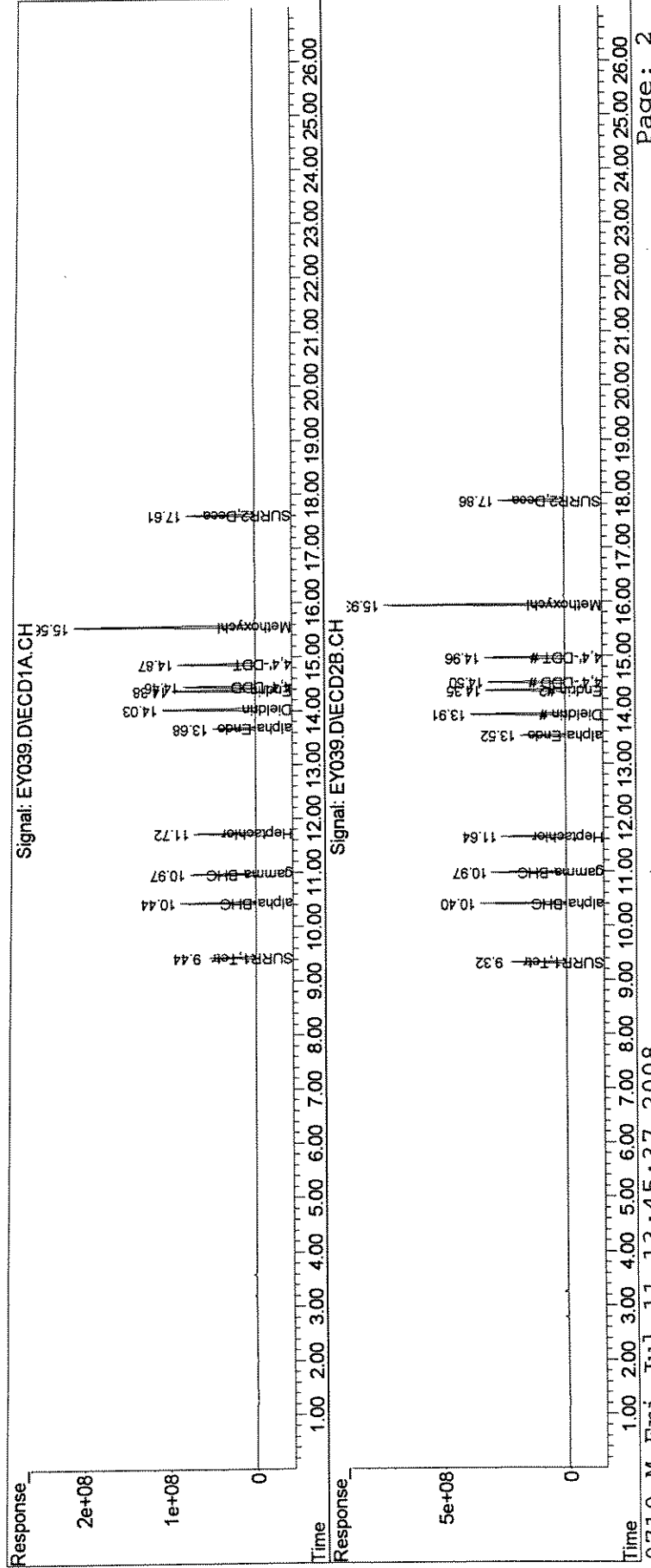
7/11

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY039.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 6:09 pm
 Operator : M.PEDRO
 Sample : indamh
 Misc : initial cal
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:20:06 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY040.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 6:44 pm
 Operator : M.PEDRO
 Sample : indah
 Misc : initial cal
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:20:46 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

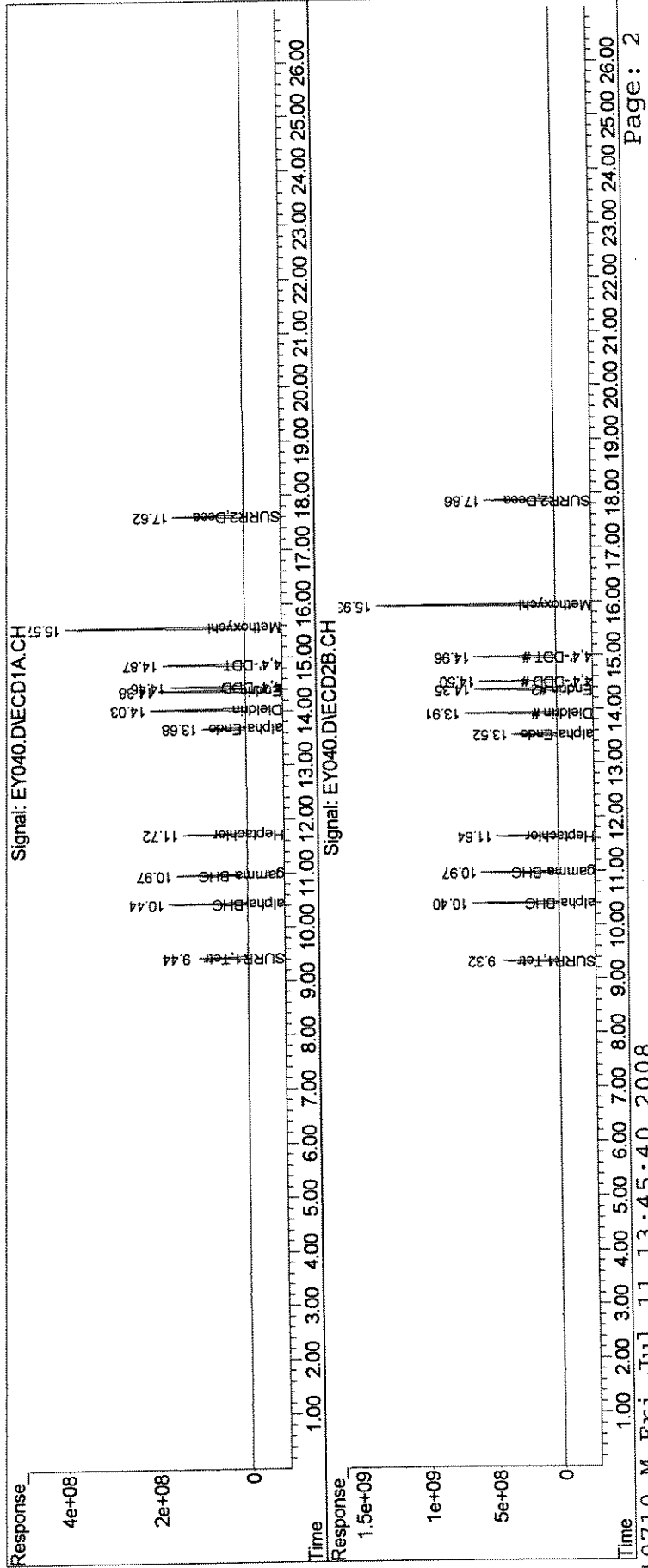
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1657.4E6	6178.0E6	89.823	105.109
Spiked Amount	100.000	Range 30 - 150	Recovery =		89.82%	105.11%
5) S SURR2,Decachloro	17.62	17.86	2775.1E6	8632.3E6	162.184	200.274
Spiked Amount	100.000	Range 30 - 150	Recovery =		162.18%#	200.27%#
Target Compounds						
3) tc alpha-BHC	10.44	10.40	2641.8E6	9334.9E6	92.558	104.798
4) tcm gamma-BHC (L)	10.97	10.97	2380.5E6	8313.6E6	91.767	102.867
5) tcm Heptachlor	11.73	11.64	2295.6E6	7408.3E6	86.827	93.366
0) tc alpha-Endosu	13.68	13.52	1694.9E6	5442.9E6	85.223	95.567
4) tcm Dieldrin	14.03	13.91	3762.5E6	11766.0E6	168.877	192.732
5) tcm Endrin	14.38	14.35	3439.1E6	10501.3E6	170.446	189.499
8) tc 4,4'-DDD	14.46	14.50	3009.2E6	9698.6E6	177.865	212.505
9) tcm 4,4'-DDT	14.87	14.96	3258.9E6	10455.7E6	176.111	215.911
2) tc Methoxychlor	15.57	15.93	7245.1E6	21725.0E6	829.784	1016.991
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY040.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 6:44 pm
 Operator : M.PEDRO
 Sample : indah
 Misc : initial cal
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:20:46 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



80810710.M

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY041.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 7:20 pm
 Operator : M.PEDRO
 Sample : indbl
 Misc : initial cal
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:22:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

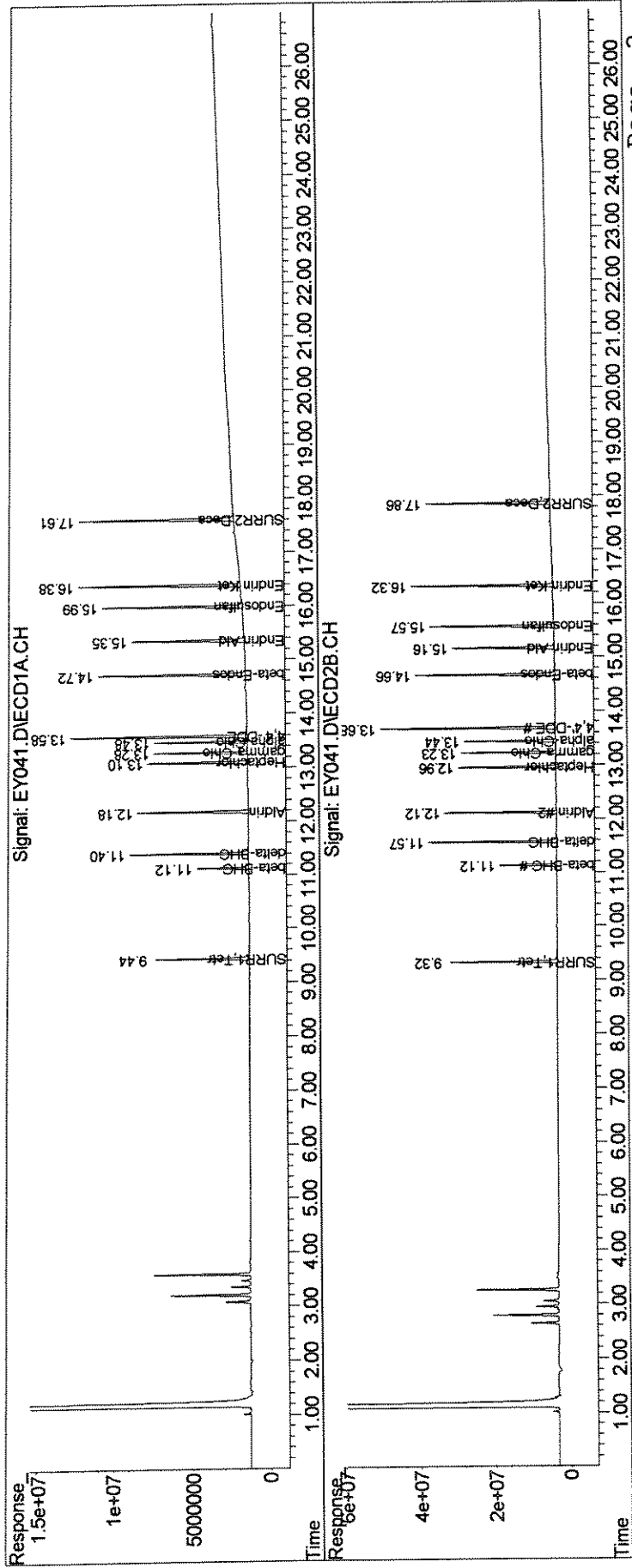
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	99289008	422.8E6	5.381	7.193 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		5.38%#	7.19%#
5) S SURR2,Decachloro	17.61	17.86	177.6E6	573.0E6	10.382m	13.294m#
Spiked Amount	100.000	Range 30 - 150	Recovery =		10.38%#	13.29%#
Target Compounds						
6) tcm Aldrin	12.18	12.12	113.5E6	447.9E6	4.790	6.181 #
7) tc beta-BHC	11.12	11.12	57743920	228.1E6	5.349	6.651
8) tc delta-BHC	11.40	11.57	122.2E6	494.5E6	5.000	6.703 #
9) tc Heptachlor E	13.10	12.96	109.4E6	408.0E6	4.975	6.401 #
1) tc gamma-Chlord	13.28	13.23	104.0E6	407.5E6	4.916	6.441 #
2) tc alpha-Chlord	13.48	13.44	101.8E6	382.5E6	4.948	6.222 #
3) tc 4,4'-DDE	13.58	13.68	202.0E6	757.1E6	9.972	12.872 #
7) tc beta-Endosul	14.72	14.66	174.2E6	650.8E6	9.562	12.943 #
0) tc Endrin Aldeh	15.35	15.16	139.1E6	486.4E6	9.793	12.896 #
1) tc Endosulfan S	15.99	15.57	162.8E6	563.8E6	9.704	12.802 #
4) tc Endrin Keton	16.38	16.32	183.7E6	613.8E6	9.561m	12.523 #
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY041.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 7:20 pm
 Operator : M.PEDRO
 Sample : indbl
 Misc : initial cal
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:22:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

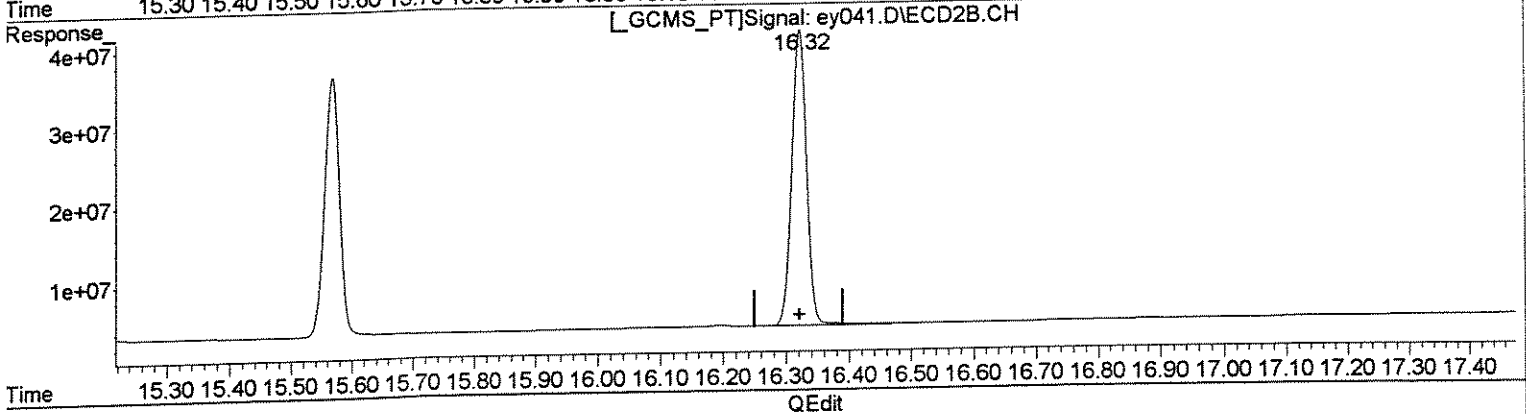
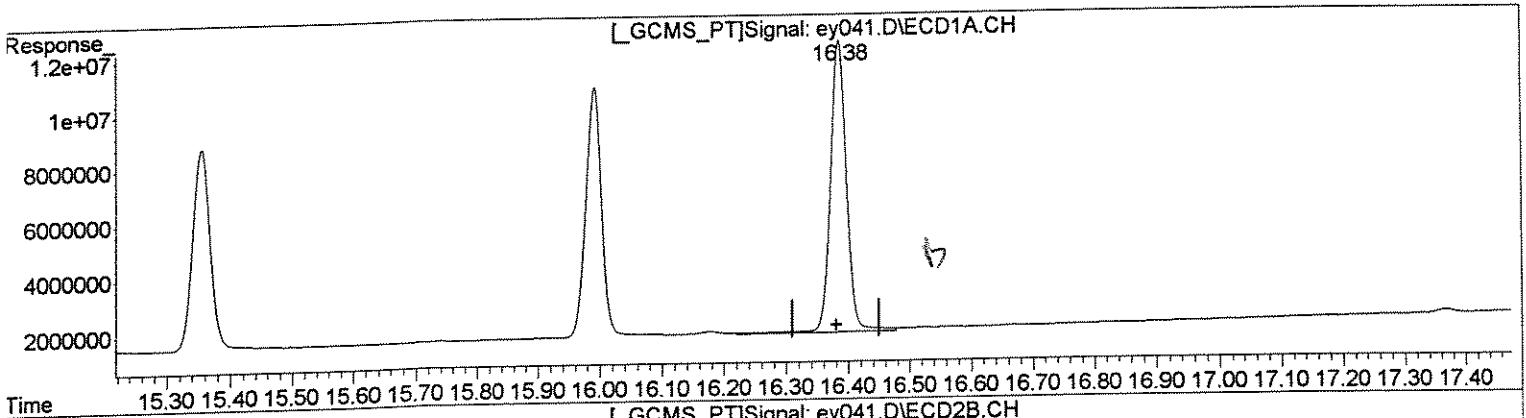


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:20 pm
Operator : M.PEDRO
Sample : indbl
Misc : initial cal
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Endrin Keton (tc)
16.38min 9.960ug/l
response 191325325

(24) Endrin Keton #2 (tc)
16.32min 12.523ug/l
response 613785726

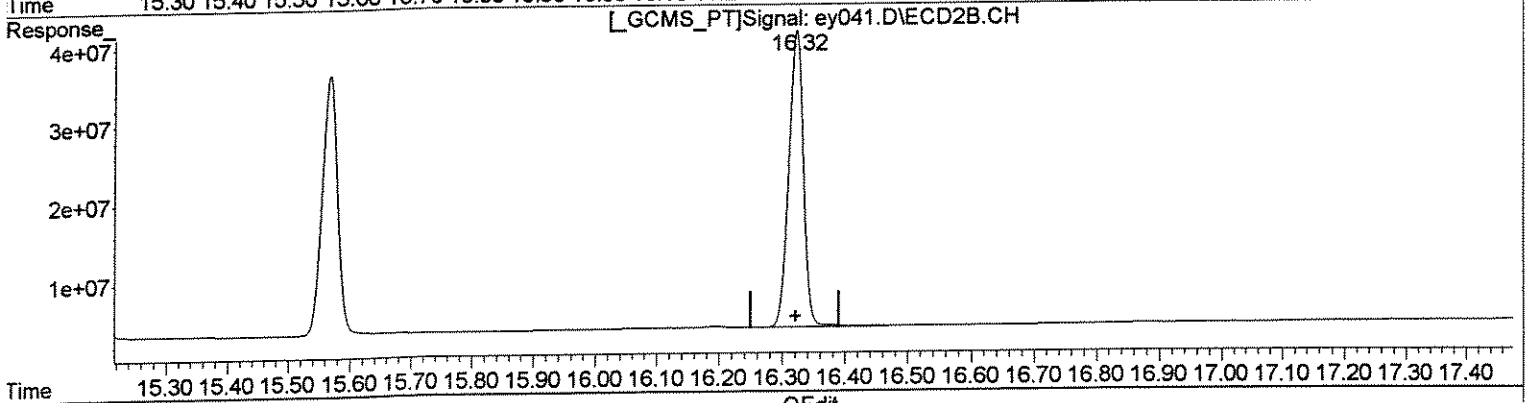
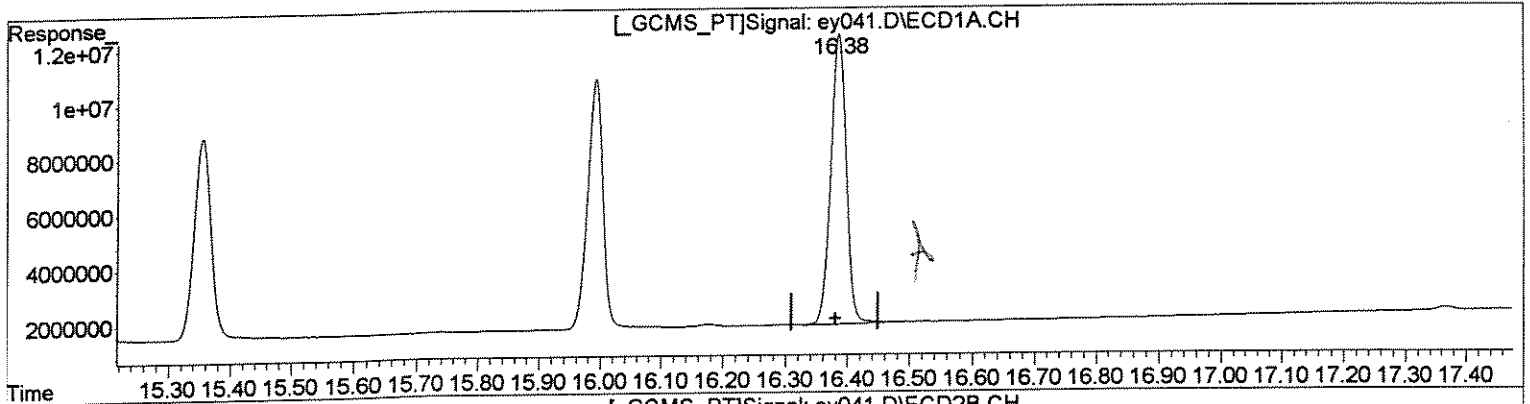
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:20 pm
Operator : M.PEDRO
Sample : indbl
Misc : initial cal
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Endrin Keton (tc)
16.38min 9.561ug/l m
response 183675443

(24) Endrin Keton #2 (tc)
16.32min 12.523ug/l
response 613785726

MLP
7/11

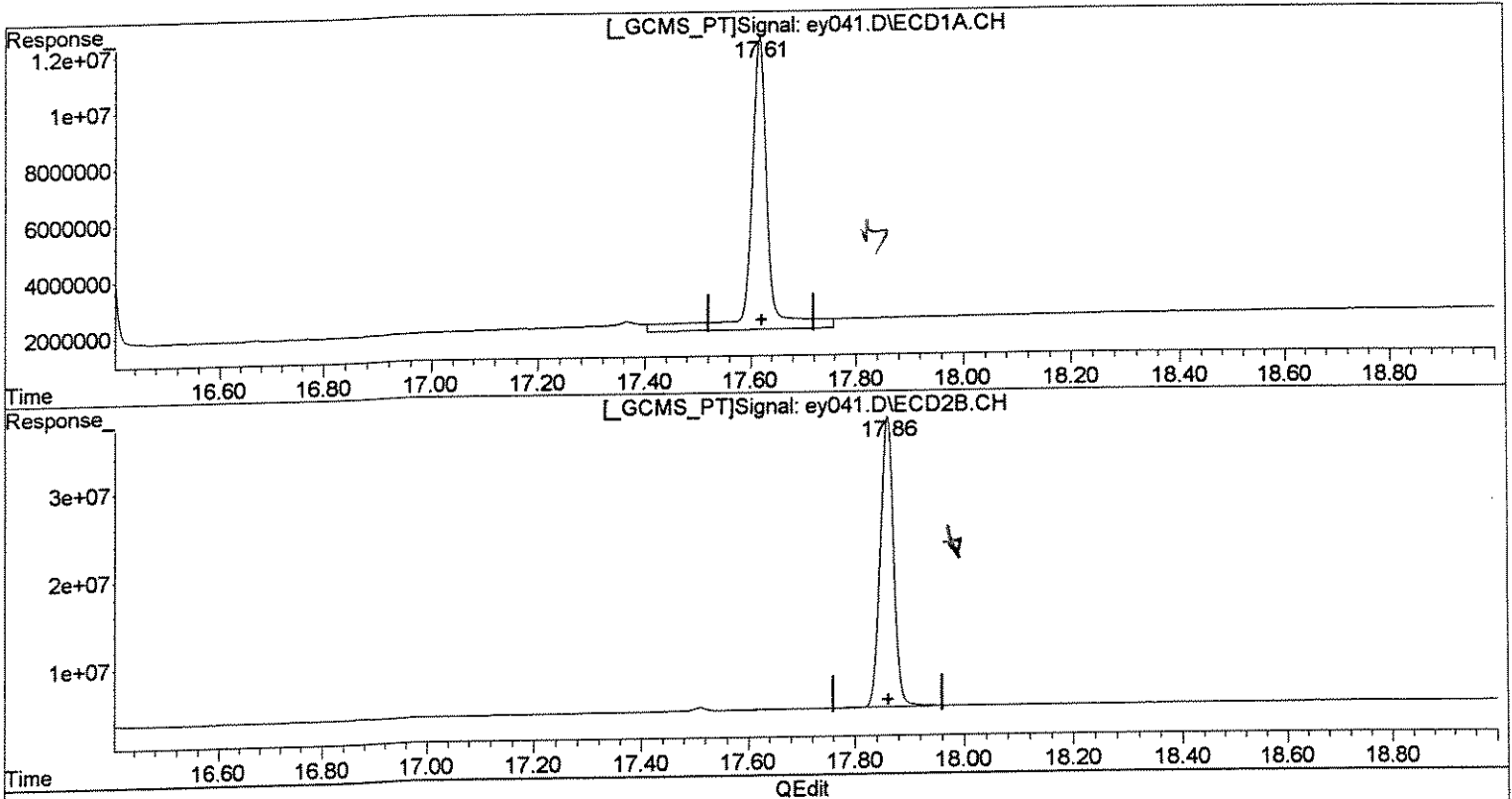
MLP
7/11

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:20 pm
Operator : M.PEDRO
Sample : indbl
Misc : initial cal
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.61min 13.991ug/l
response 239397924

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 13.256ug/l
response 571352336

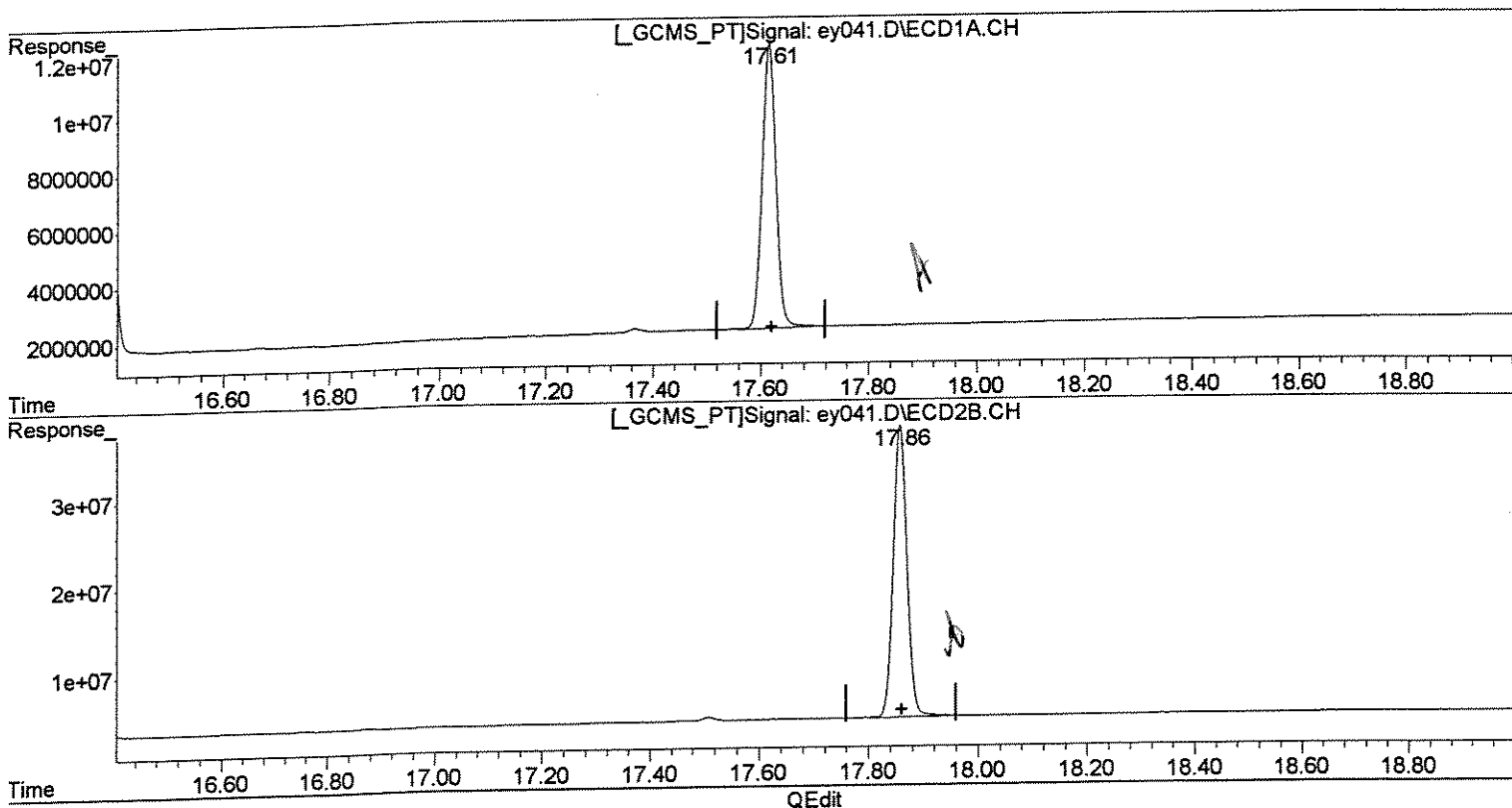
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey041.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 7:20 pm
 Operator : M.PEDRO
 Sample : indbl
 Misc : initial cal
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 11:00:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
 17.61min 10.382ug/l m
 response 177648594

(25) SURR2,Decachlorobiphenyl #2 (S)
 17.86min 13.294ug/l m
 response 573007738

MJC
7/11

MJC
7/11

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY042.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 7:55 pm
 Operator : M.PEDRO
 Sample : indbml
 Misc : initial cal
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:23:02 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

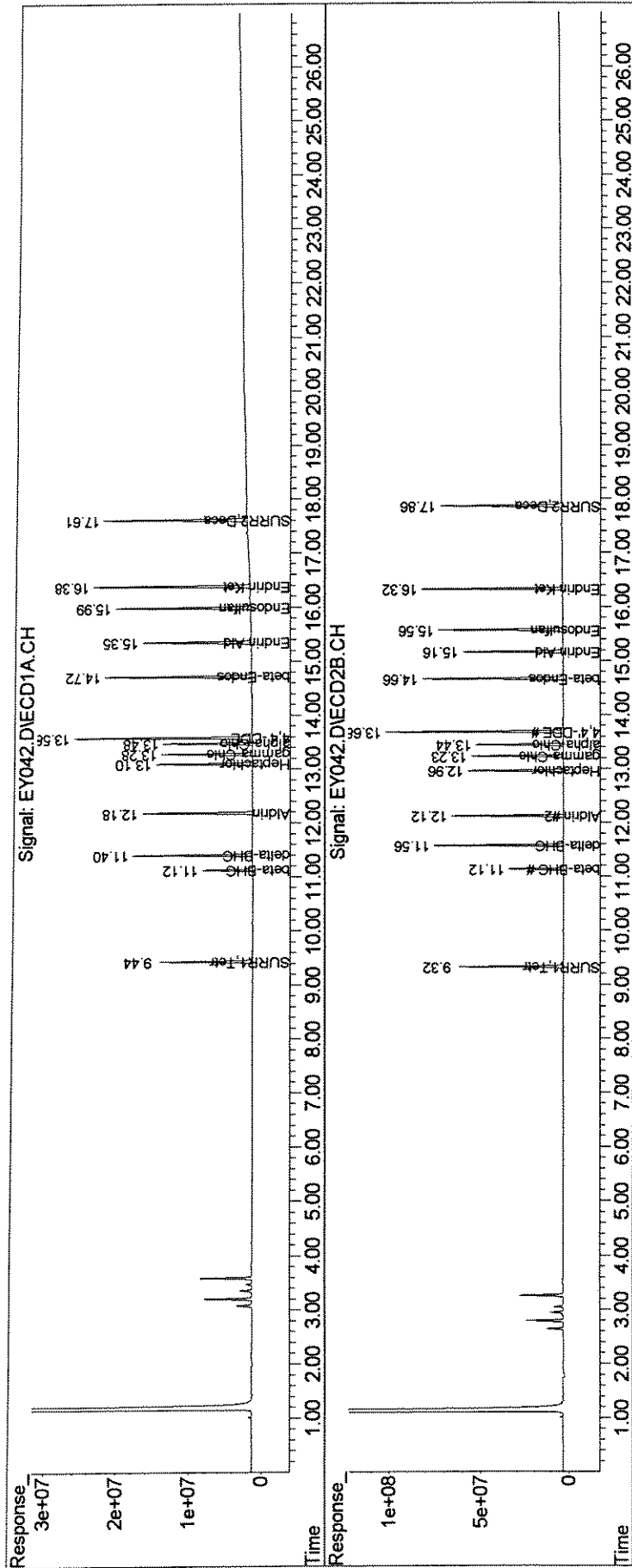
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	204.9E6	860.1E6	11.107	14.634 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		11.11%#	14.63%#
5) S SURR2,Decachloro	17.61	17.86	354.6E6	1152.4E6	20.724m	26.736m#
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.72%#	26.74%#
Target Compounds						
6) tcm Aldrin	12.18	12.12	243.2E6	931.6E6	10.261	12.857 #
7) tc beta-BHC	11.12	11.12	112.9E6	460.1E6	10.458	13.412 #
8) tc delta-BHC	11.40	11.56	262.0E6	1042.4E6	10.719	14.128 #
9) tc Heptachlor E	13.10	12.96	226.6E6	835.1E6	10.309	13.104 #
1) tc gamma-Chlord	13.28	13.23	214.3E6	826.6E6	10.130	13.066 #
2) tc alpha-Chlord	13.48	13.44	211.6E6	785.7E6	10.285	12.781
3) tc 4,4'-DDE	13.58	13.68	430.5E6	1575.5E6	21.259	26.788 #
7) tc beta-Endosul	14.72	14.66	370.5E6	1320.4E6	20.345	26.258 #
0) tc Endrin Aldeh	15.35	15.16	288.5E6	999.6E6	20.307	26.505 #
1) tc Endosulfan S	15.99	15.57	329.5E6	1161.9E6	19.643	26.384 #
4) tc Endrin Keton	16.38	16.32	381.5E6	1272.3E6	19.862	25.958 #
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY042.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 7:55 pm
 Operator : M.PEDRO
 Sample : indbml
 Misc : initial cal
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:23:02 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLP
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



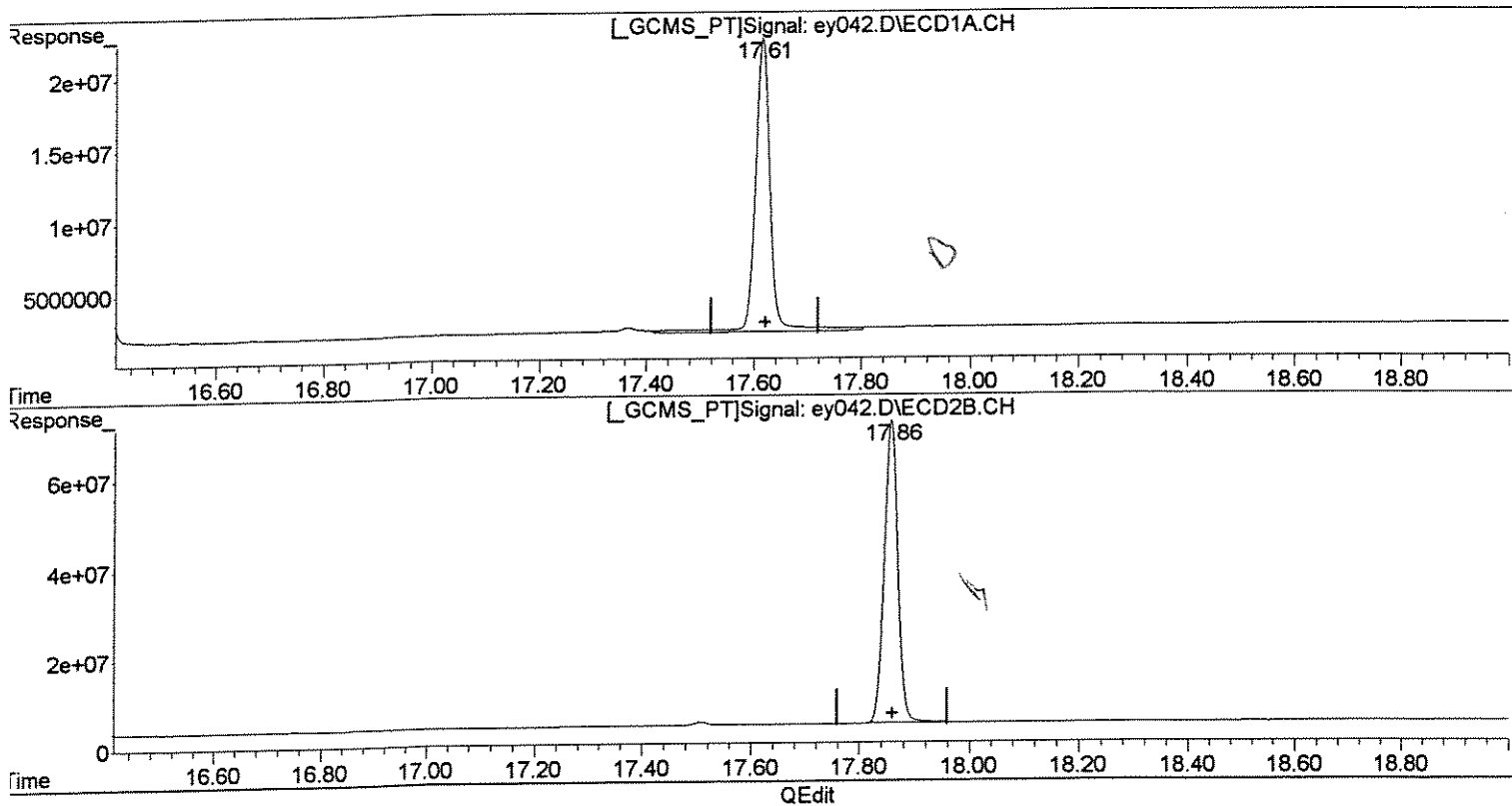
01355

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:55 pm
Operator : M.PEDRO
Sample : indbml
Misc : initial cal
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:49 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.61min 23.226ug/l
response 397418479

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 26.580ug/l
response 1145666598

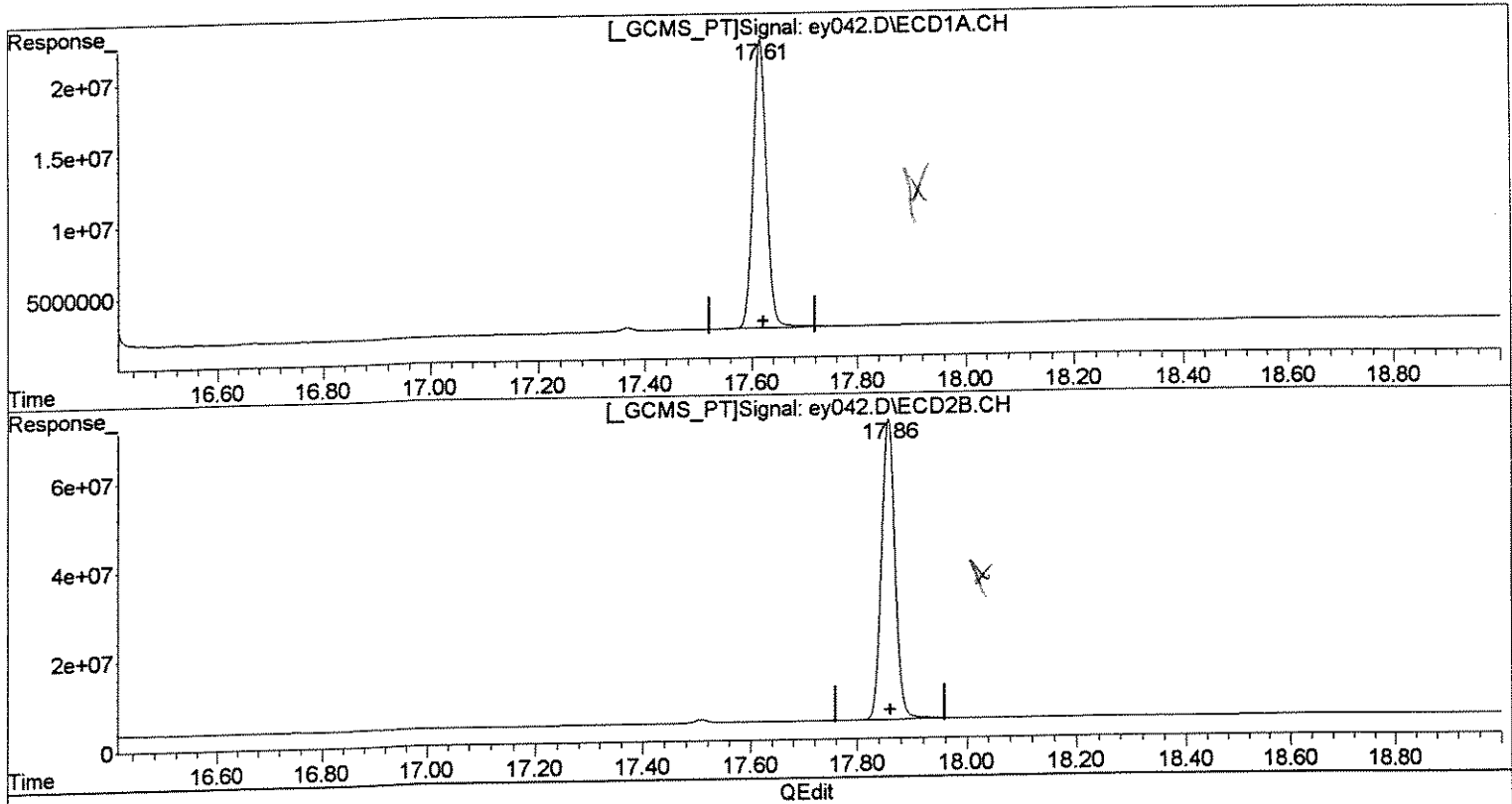
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:55 pm
Operator : M.PEDRO
Sample : indbml
Misc : initial cal
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:49 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.61min 20.724ug/l m
response 354602418

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 26.736ug/l m
response 1152403488

MV 7/11

mg 7/11

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY043.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 8:31 pm
 Operator : M.PEDRO
 Sample : indbm
 Misc : initial cal
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:23:35 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

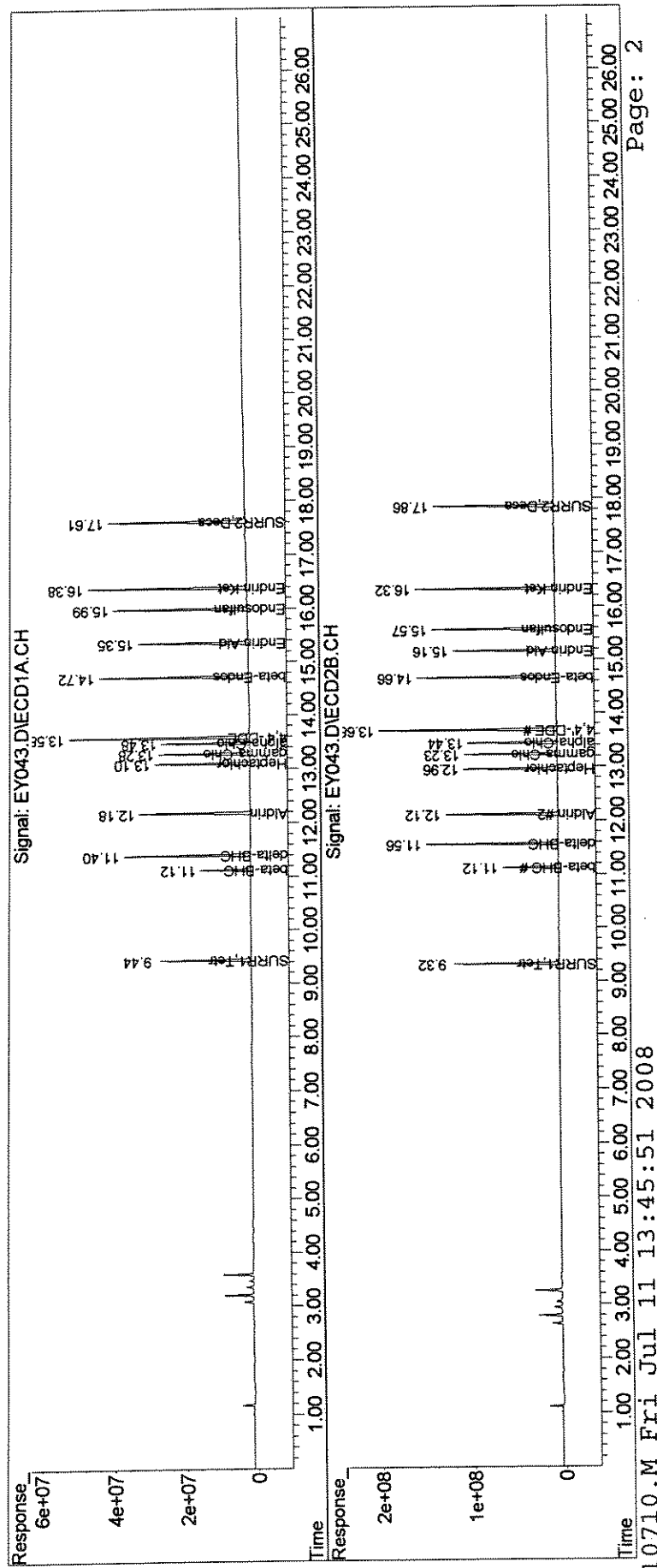
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	410.8E6	1669.3E6	22.266	28.401 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		22.27%#	28.40%#
5) S SURR2,Decachloro	17.61	17.86	721.8E6	2252.2E6	42.185	52.252
Spiked Amount	100.000	Range 30 - 150	Recovery =		42.19%	52.25% <i>WJ</i>
Target Compounds						
6) tcm Aldrin	12.18	12.12	500.3E6	1855.6E6	21.111	25.608
7) tc beta-BHC	11.12	11.12	224.9E6	902.1E6	20.834	26.298 #
8) tc delta-BHC	11.40	11.56	548.6E6	2099.5E6	22.443	28.457 #
9) tc Heptachlor E	13.10	12.96	456.6E6	1629.3E6	20.773	25.567
1) tc gamma-Chlord	13.28	13.23	436.4E6	1651.8E6	20.635	26.108 #
2) tc alpha-Chlord	13.48	13.44	424.9E6	1565.2E6	20.658	25.459
3) tc 4,4'-DDE	13.58	13.68	879.2E6	3128.4E6	43.411	53.193
7) tc beta-Endosul	14.72	14.66	747.4E6	2601.3E6	41.037	51.732 #
0) tc Endrin Aldeh	15.35	15.16	591.1E6	1993.2E6	41.608	52.854 #
1) tc Endosulfan S	15.99	15.57	673.3E6	2318.5E6	40.139	52.648 #
4) tc Endrin Keton	16.38	16.32	776.4E6	2545.4E6	40.415	51.931 #
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\071008\
 Data File : EY043.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 8:31 pm
 Operator : M.PEDRO
 Sample : indbm
 Misc : initial cal
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:23:35 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : EY044.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 9:07 pm
 Operator : M.PEDRO
 Sample : indbmh
 Misc : initial cal
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:24:19 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	833.9E6	3284.1E6	45.193	55.874
Spiked Amount	100.000	Range 30 - 150	Recovery =		45.19%	55.87%
5) S SURR2,Decachloro	17.61	17.86	1393.3E6	4433.6E6	81.430	102.861 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		81.43%	102.86%
Target Compounds						
6) tcm Aldrin	12.18	12.12	1024.3E6	3653.6E6	43.222	50.422
7) tc beta-BHC	11.12	11.12	459.8E6	1776.5E6	42.587	51.791
8) tc delta-BHC	11.40	11.56	1140.0E6	4189.3E6	46.634	56.782
9) tc Heptachlor E	13.10	12.96	922.4E6	3169.4E6	41.967	49.733
1) tc gamma-Chlord	13.28	13.23	896.8E6	3288.5E6	42.403	51.979
2) tc alpha-Chlord	13.48	13.44	870.6E6	3113.2E6	42.324	50.639
3) tc 4,4'-DDE	13.58	13.68	1800.8E6	6137.1E6	88.920	104.350
7) tc beta-Endosul	14.72	14.66	1520.3E6	5065.0E6	83.475	100.727
0) tc Endrin Aldeh	15.35	15.16	1192.6E6	3889.3E6	83.950	103.129
1) tc Endosulfan S	15.99	15.57	1370.5E6	4558.8E6	81.704	103.521 #
4) tc Endrin Keton	16.38	16.32	1583.7E6	5029.7E6	82.442	102.616
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

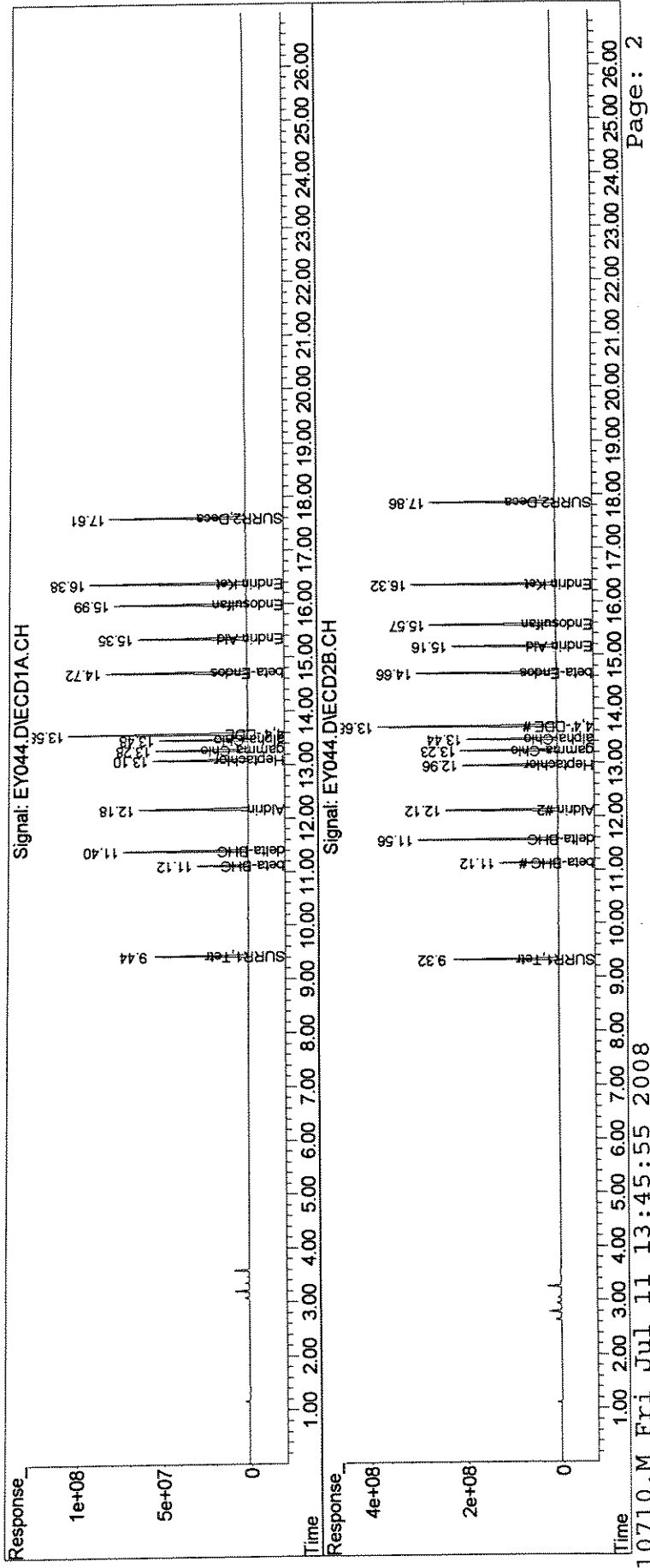
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY044.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 9:07 pm
 Operator : M.PEDRO
 Sample : indbmh
 Misc : initial cal
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:24:19 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01361

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY045.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 9:43 pm
 Operator : M.PEDRO
 Sample : indbh
 Misc : initial cal
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:25:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

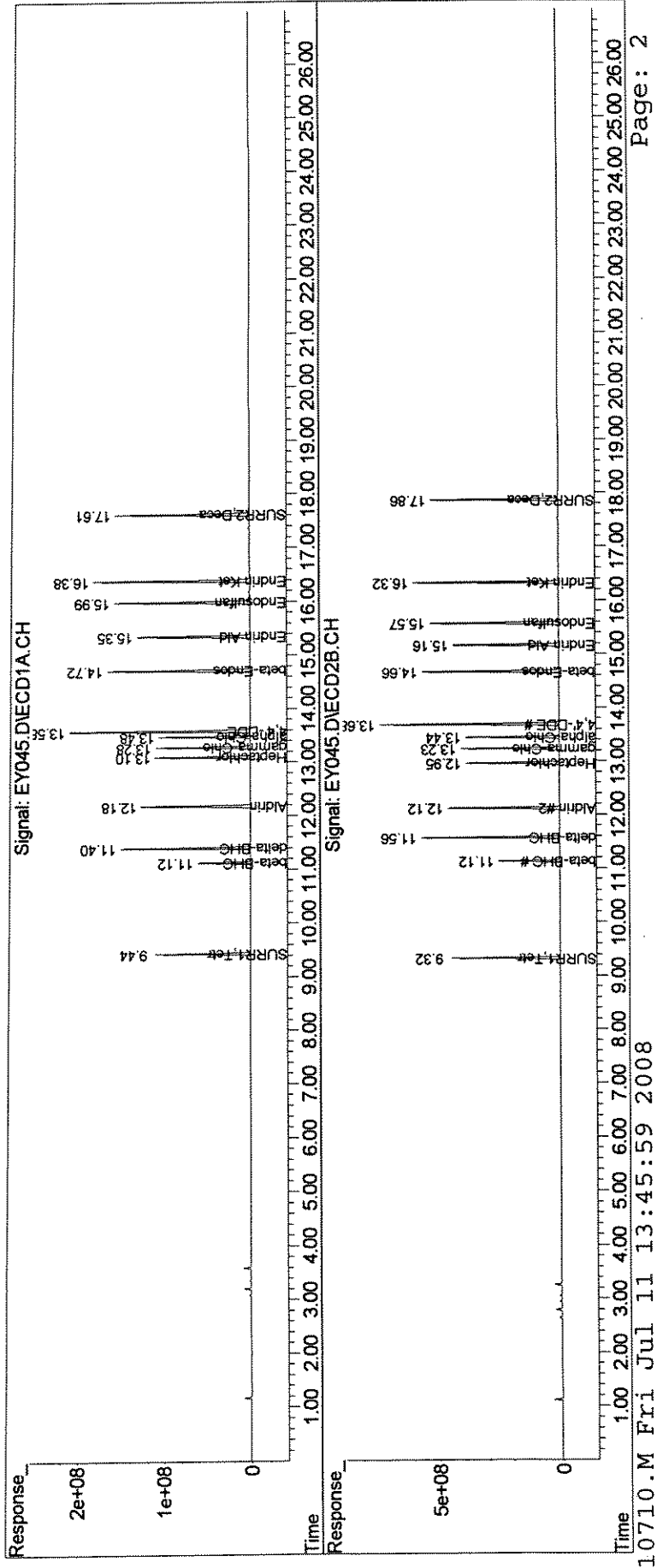
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1698.4E6	6399.1E6	92.045	108.871
Spiked Amount	100.000	Range 30 - 150	Recovery =		92.05%	108.87%
5) S SURR2,Decachloro	17.61	17.86	2802.1E6	8858.3E6	163.760	205.517 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		163.76%#	205.52%#
Target Compounds						
6) tcm Aldrin	12.18	12.12	2092.4E6	7089.4E6	88.296	97.837
7) tc beta-BHC	11.12	11.12	946.8E6	3559.9E6	87.703	103.782
8) tc delta-BHC	11.40	11.56	2352.5E6	8268.5E6	96.233	112.072
9) tc Heptachlor E	13.10	12.96	1870.9E6	6094.7E6	85.117	95.636
1) tc gamma-Chlord	13.28	13.23	1852.5E6	6493.4E6	87.585	102.635
2) tc alpha-Chlord	13.48	13.44	1792.8E6	6175.4E6	87.157	100.449
3) tc 4,4'-DDE	13.58	13.68	3631.2E6	11817.6E6	179.300	200.936
7) tc beta-Endosul	14.72	14.66	3089.8E6	9846.8E6	169.646	195.820
0) tc Endrin Aldeh	15.35	15.16	2459.2E6	7708.5E6	173.110	204.402
1) tc Endosulfan S	15.99	15.57	2803.1E6	9011.2E6	167.115	204.626
4) tc Endrin Keton	16.38	16.32	3226.3E6	9945.6E6	167.946	202.911
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY045.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 9:43 pm
 Operator : M.PEDRO
 Sample : indbh
 Misc : initial cal
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:25:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY046.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 10:18 pm
 Operator : M.PEDRO
 Sample : kep/fam 1
 Misc : initial cal
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:26:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
Target Compounds						
2) TC HEXACHLOROBENZEN	10.13	10.14	162.9E6	736.6E6	5.742	7.892 #
6) tc KEPONE	14.44	14.52	3473.6E6	11045.7E6	519.980	675.983 #
3) tc FAMPHUR	16.26	15.66	1381.9E6	4443.2E6	108.103	151.268m#
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

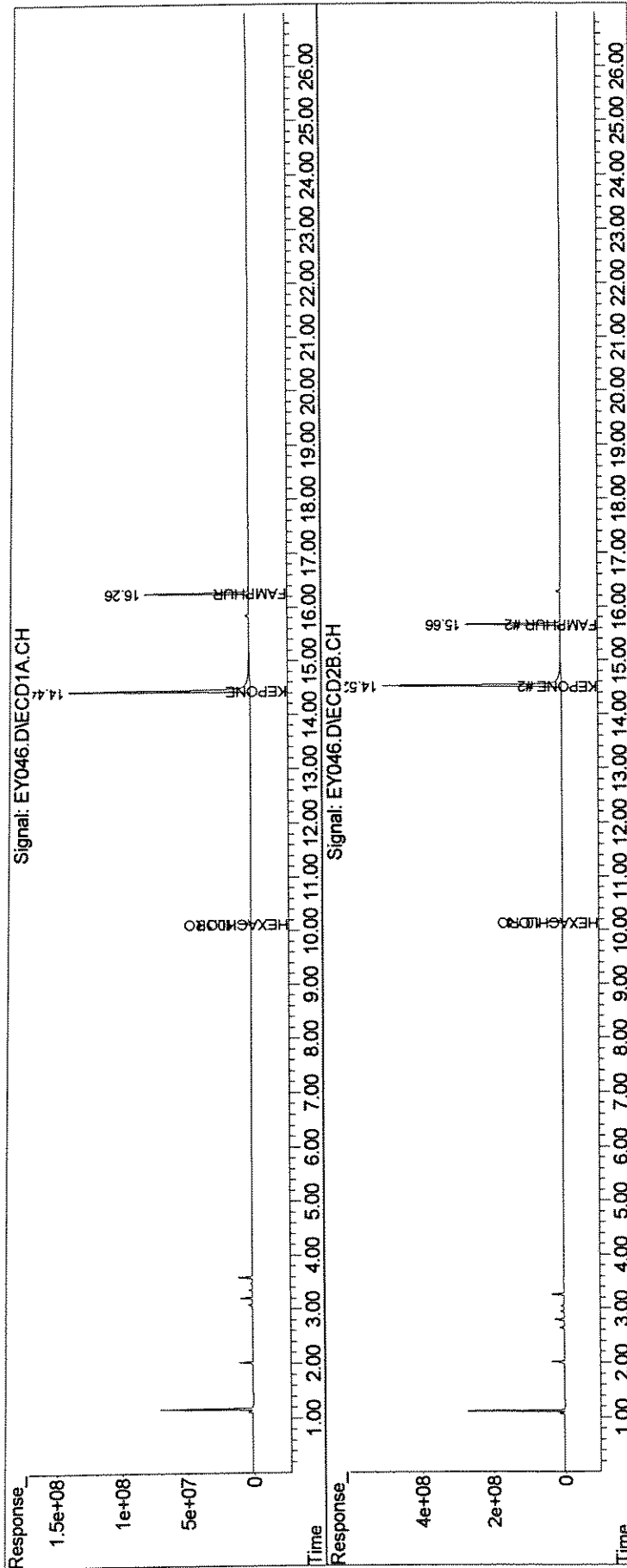
*MSD
7/11*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:18 pm
Operator : M.PEDRO
Sample : kep/fam 1
Misc : initial cal
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:26:04 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

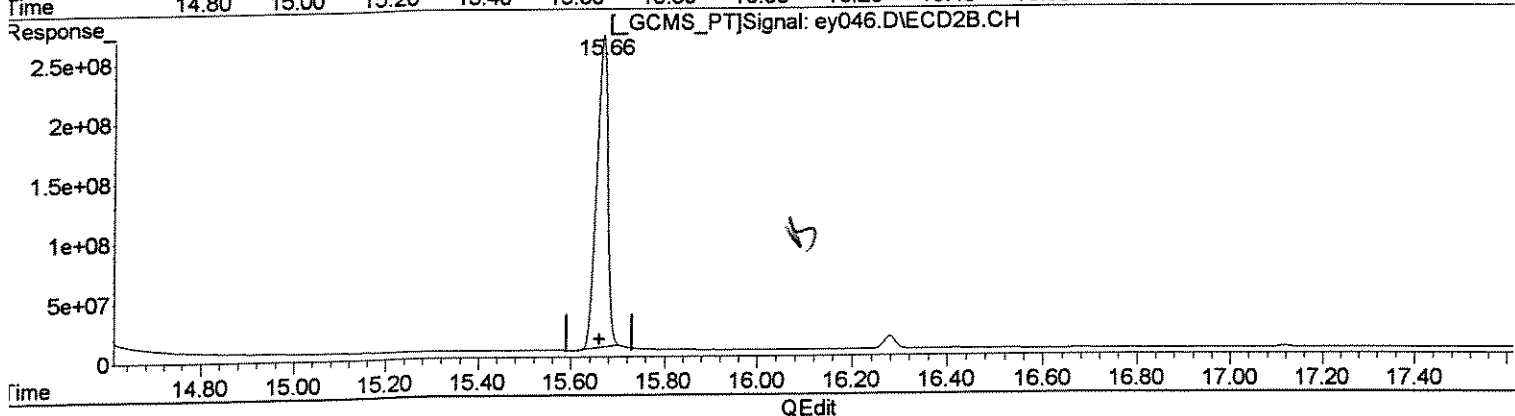
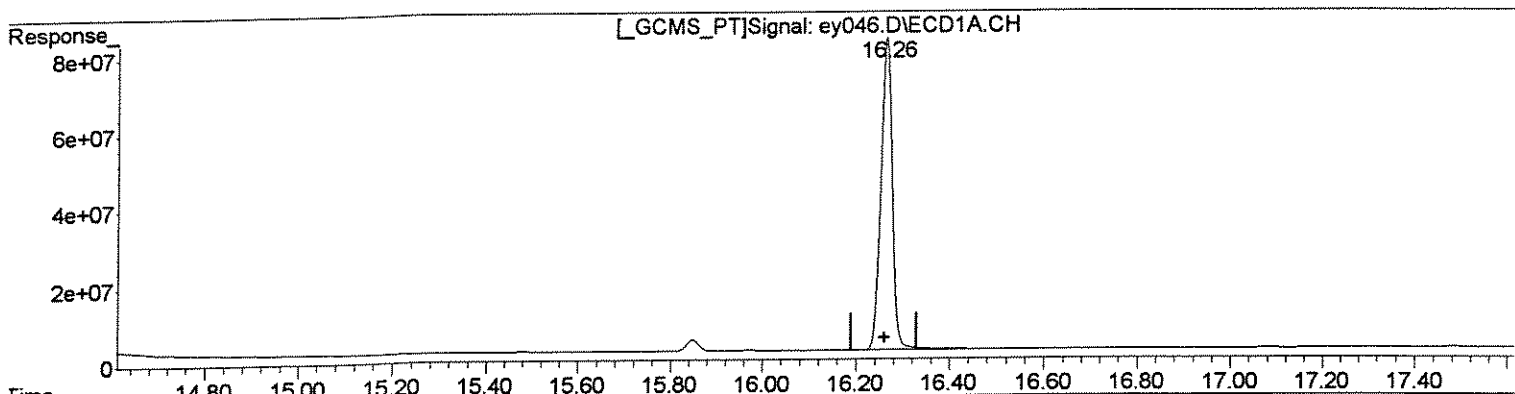


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:18 pm
Operator : M.PEDRO
Sample : kep/fam 1
Misc : initial cal
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 108.103ug/l
response 1381933679

(23) FAMPHUR #2 (tc)
15.66min 145.872ug/l
response 4284737536

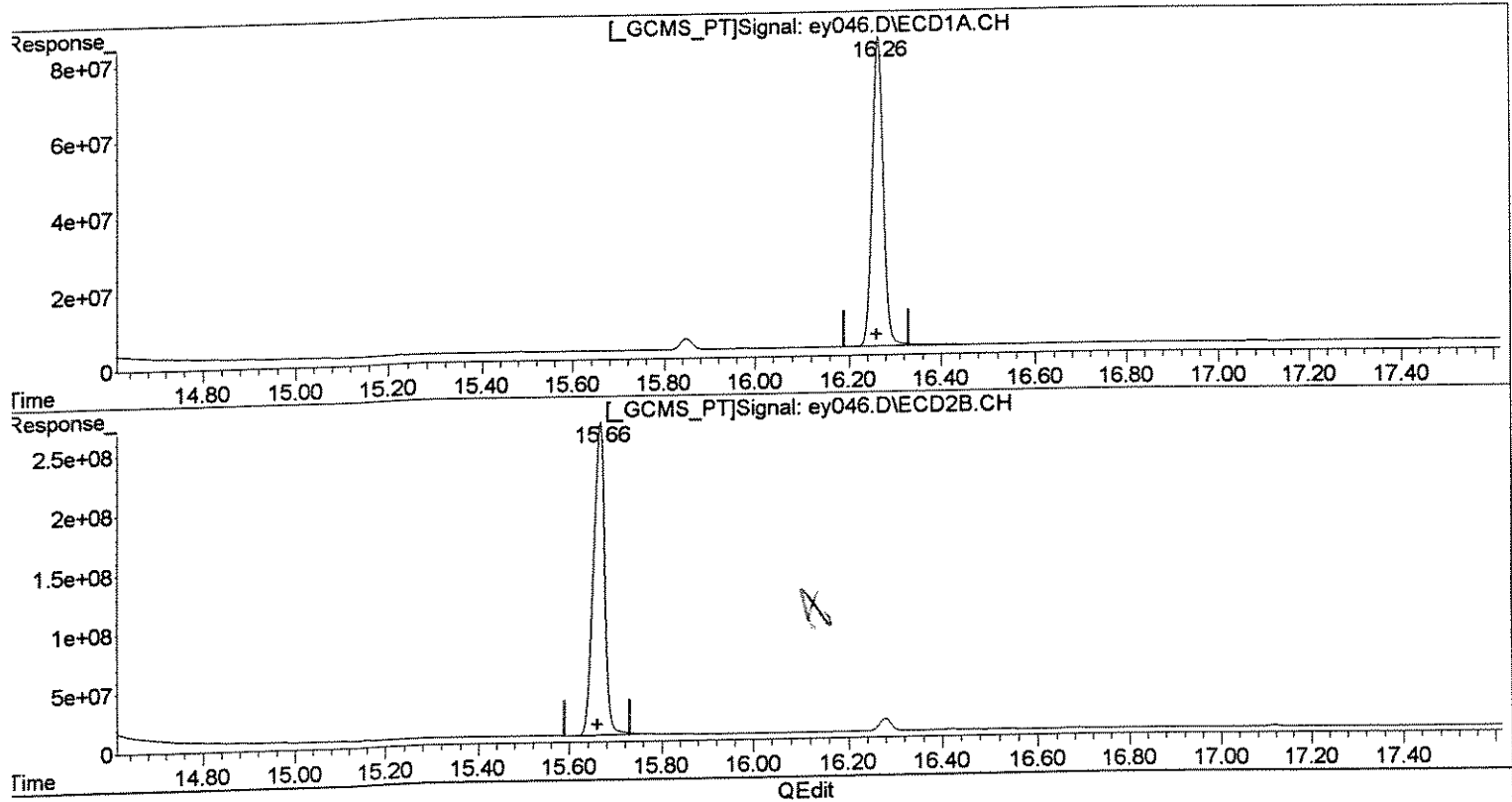
Blair

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:18 pm
Operator : M.PEDRO
Sample : kep/fam 1
Misc : initial cal
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 108.103ug/l
response 1381933679

(23) FAMPHUR #2 (tc)
15.66min 151.268ug/l m
response 4443239687

MW 7/11 *MW 7/11*

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY047.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 10:54 pm
 Operator : M.PEDRO
 Sample : kep/fam ml
 Misc : initial cal
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:26:46 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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System Monitoring Compounds

Target Compounds

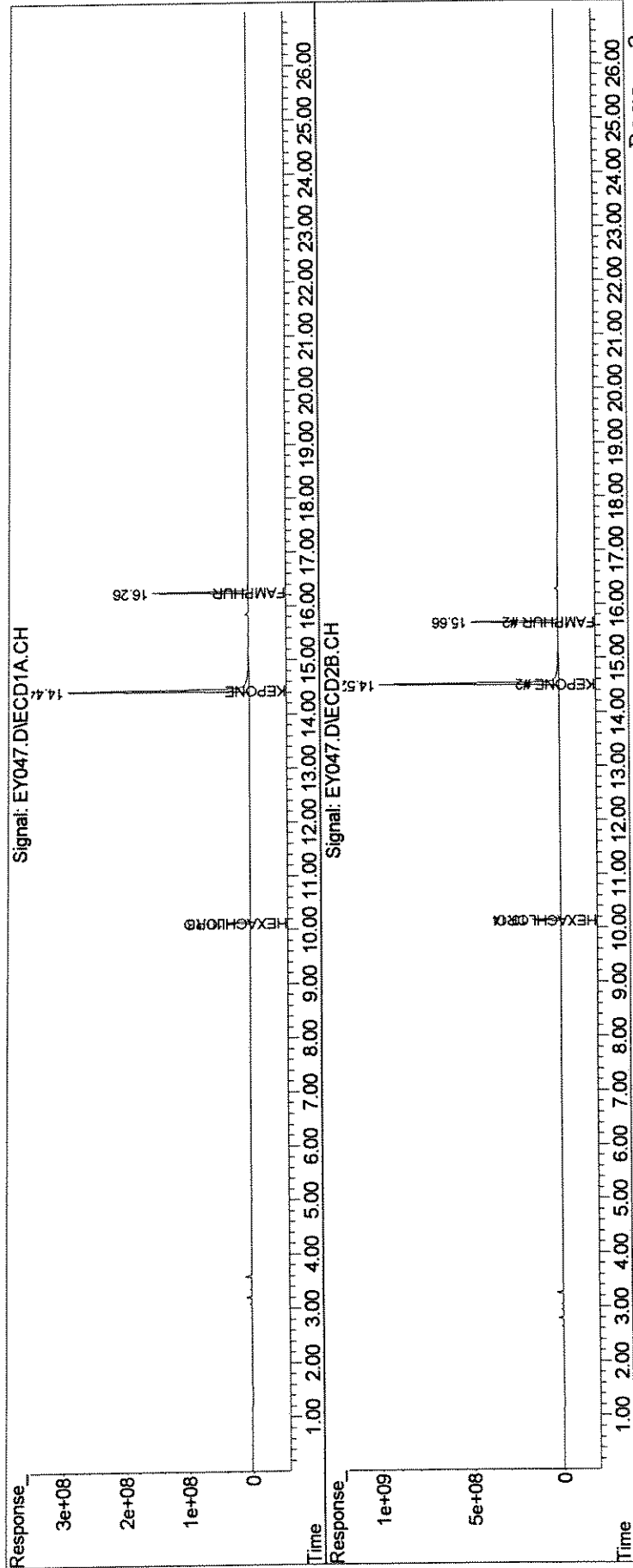
2) TC	HEXACHLOROBENZEN	10.13	10.14	593.6E6	2493.3E6	20.921	26.715 #
5) tc	KEPONE	14.44	14.52	7073.0E6	22302.5E6	1058.804	1364.882 #
3) tc	FAMPHUR	16.26	15.66	2607.6E6	8060.3E6	203.978	274.408m#
	Sum Toxaphene			0	0	N.D.	N.D.
	verage Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY047.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 10:54 pm
 Operator : M.PEDRO
 Sample : kep/fam ml
 Misc : initial cal
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:26:46 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



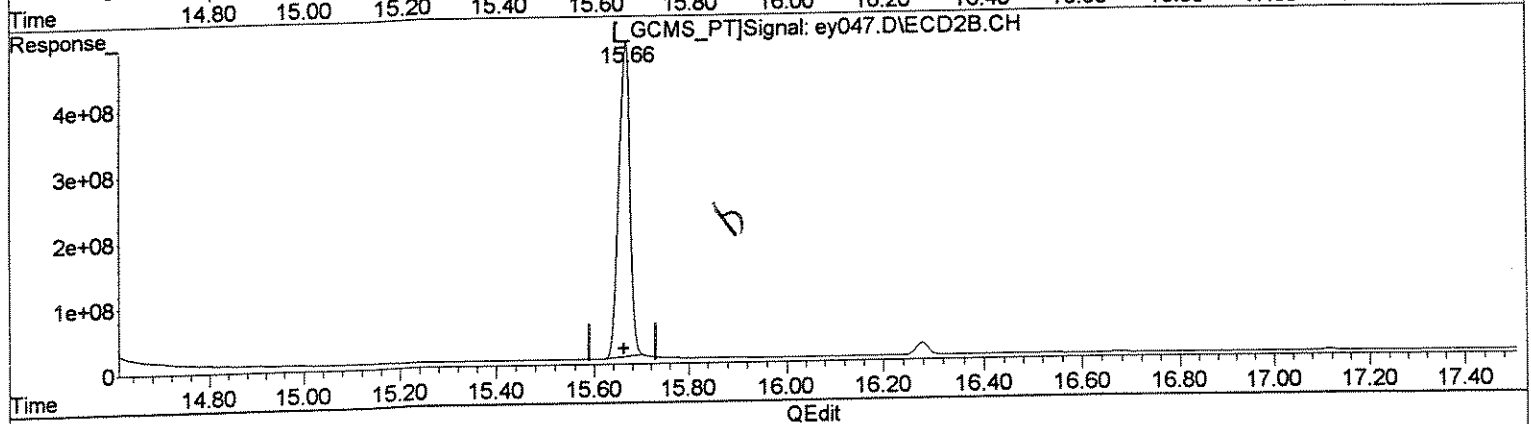
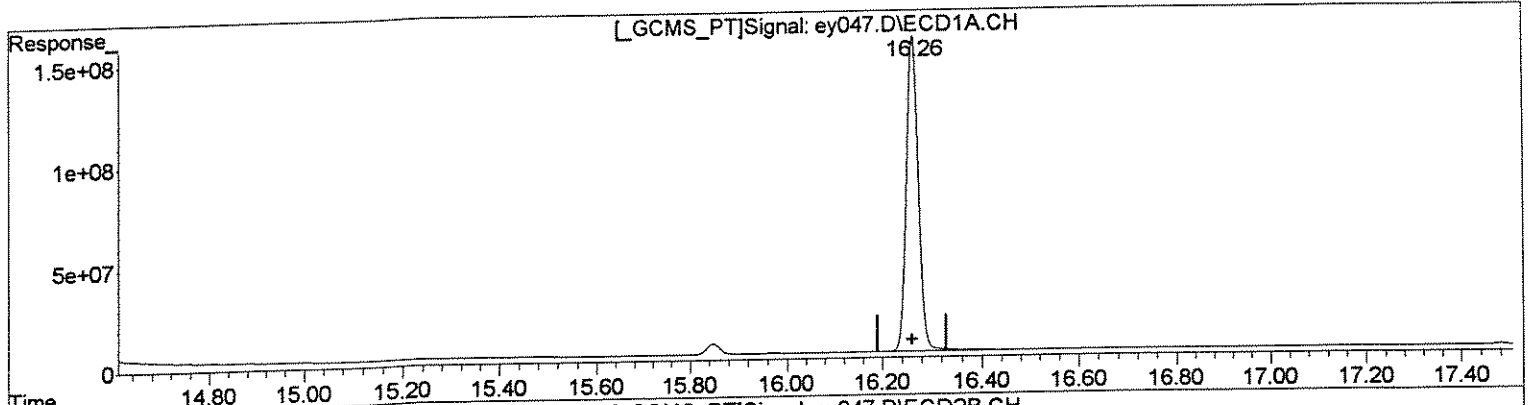
81059

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:54 pm
Operator : M.PEDRO
Sample : kep/fam ml
Misc : initial cal
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 203.978ug/l
response 2607565281

(23) FAMPHUR #2 (tc)
15.66min 266.046ug/l
response 7814660987

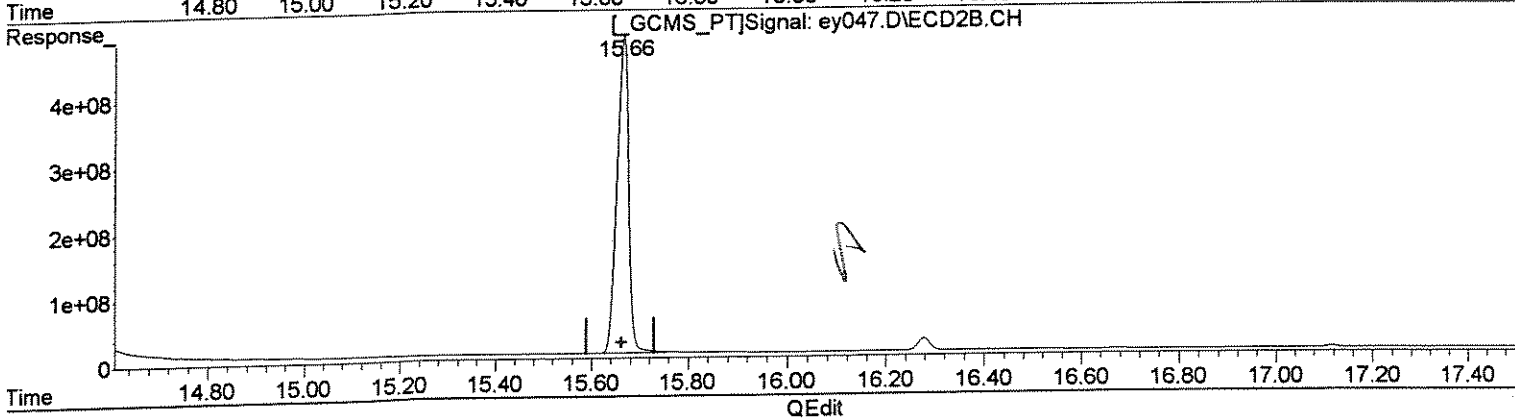
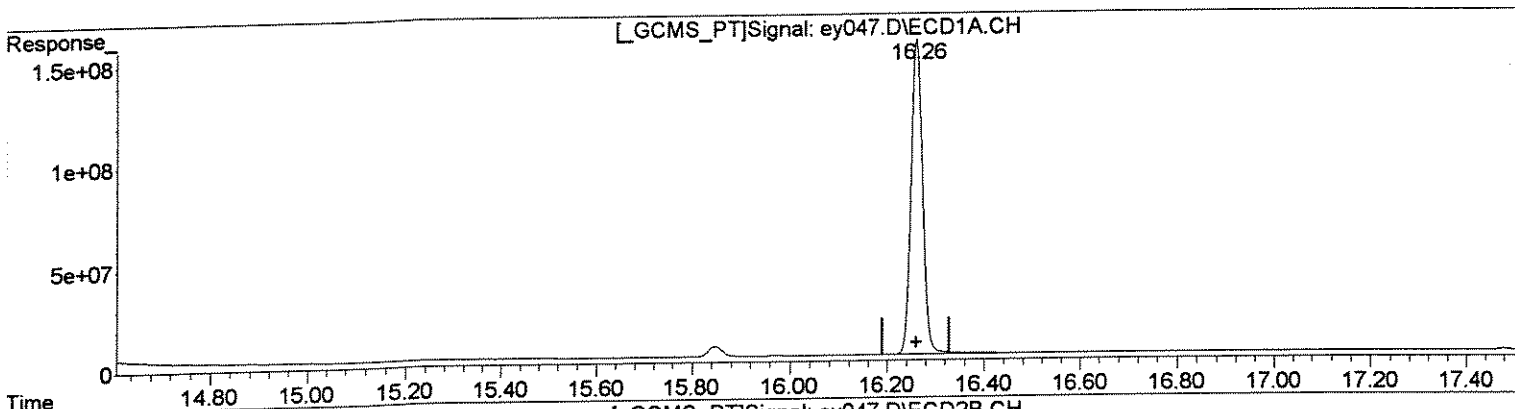
back

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:54 pm
Operator : M.PEDRO
Sample : kep/fam ml
Misc : initial cal
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 203.978ug/l
response 2607565281

(23) FAMPHUR #2 (tc)
15.66min 274.408ug/l m
response 8060279415

Handwritten signatures:
M.P. 7/11
M.P. 7/11

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY048.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 10 Jul 2008 11:30 pm
 Operator : M.PEDRO
 Sample : kep/fam m
 Misc : initial cal
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:27:27 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

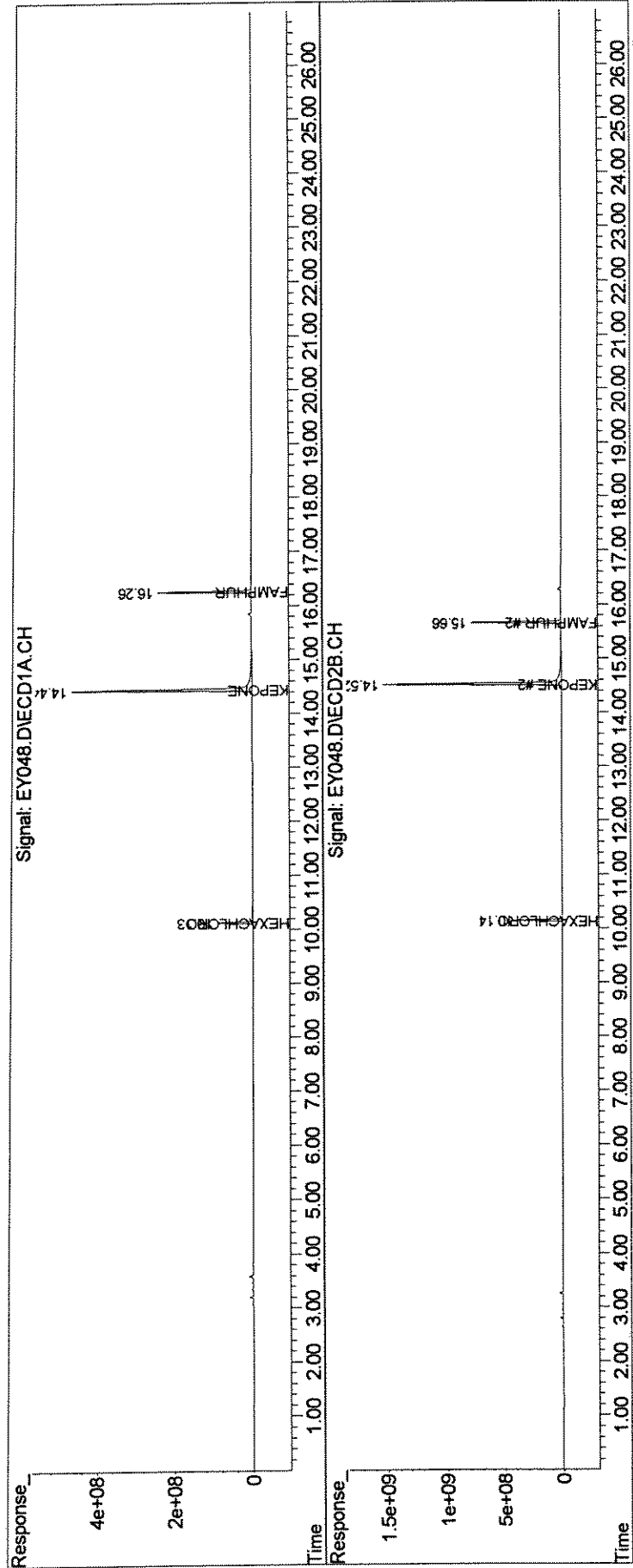
Target Compounds		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
2) TC	HEXACHLOROBENZEN	10.13	10.14	1431.2E6	5821.2E6	50.439	62.371
6) tc	KEPONE	14.44	14.52	11799.2E6	35925.9E6	1766.294	2198.620
3) tc	FAMPHUR	16.26	15.66	4144.4E6	12629.1E6	324.195	429.952m#
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 11:30 pm
Operator : M.PEDRO
Sample : kep/fam m
Misc : initial cal
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:27:27 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



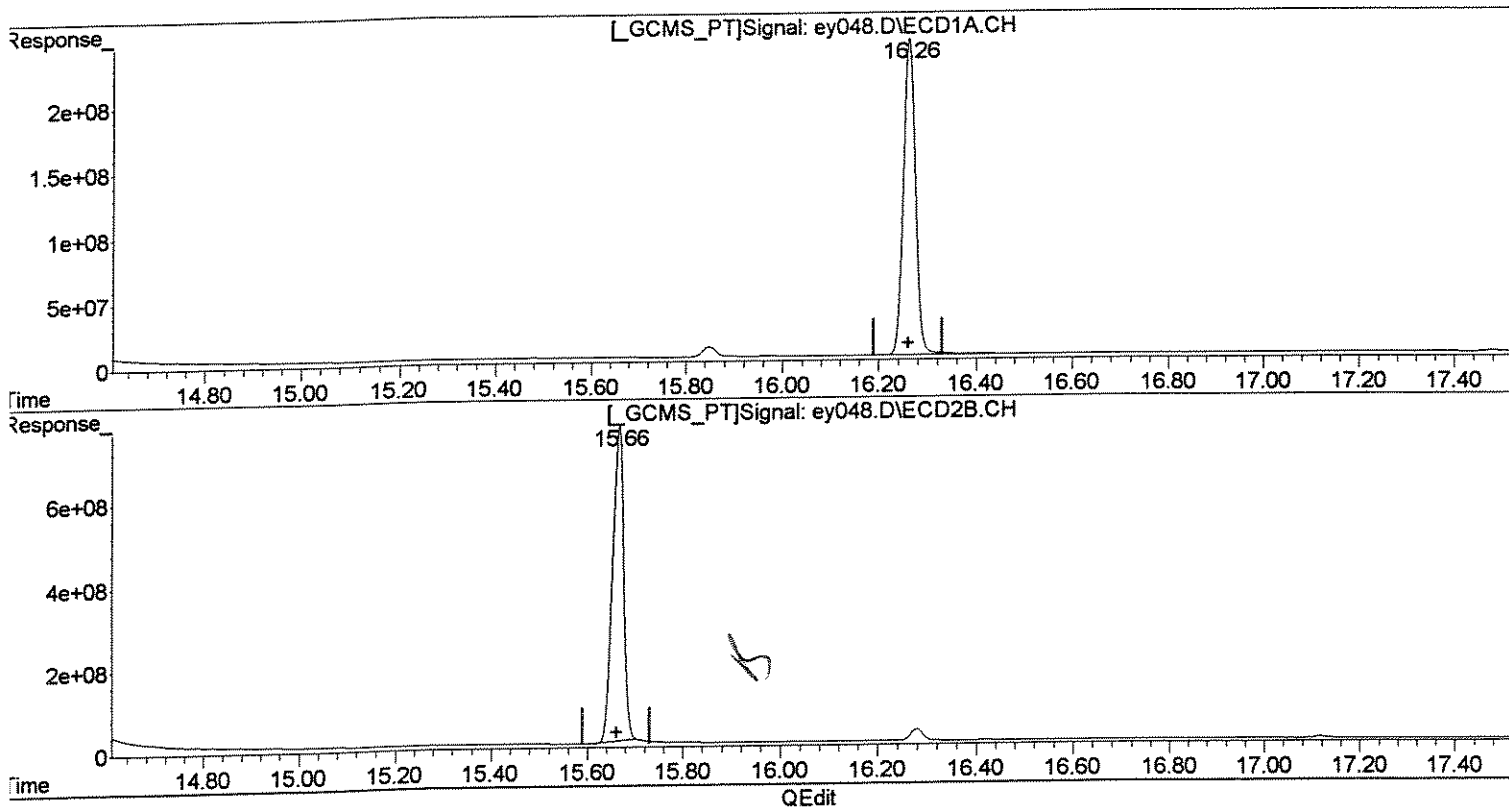
81373

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 11:30 pm
Operator : M.PEDRO
Sample : kep/fam m
Misc : initial cal
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 324.195ug/l
response 4144352250

(23) FAMPHUR #2 (tc)
15.66min 419.250ug/l
response 12314769808

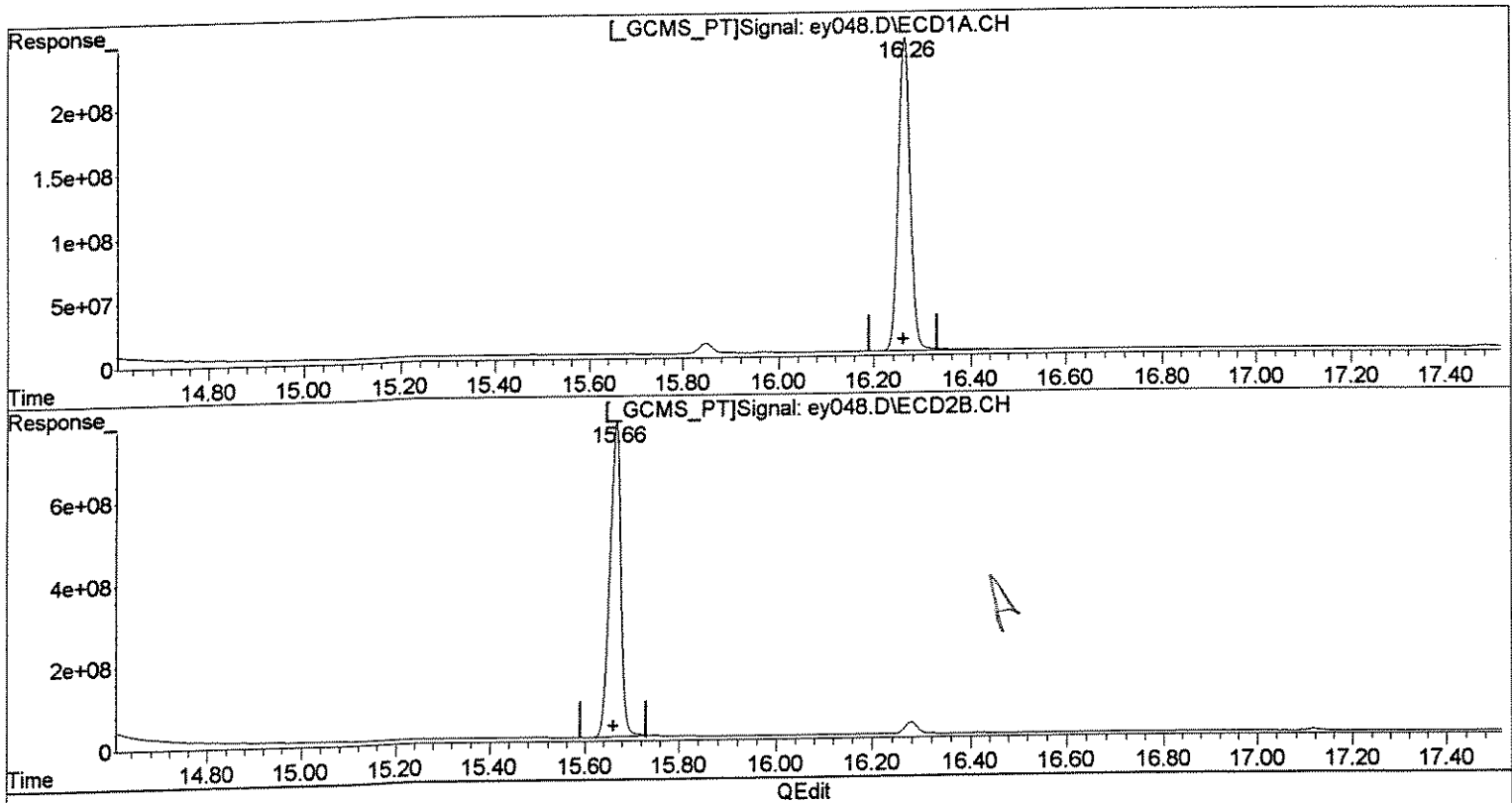
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 11:30 pm
Operator : M.PEDRO
Sample : kep/fam m
Misc : initial cal
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 324.195ug/l
response 4144352250

(23) FAMPHUR #2 (tc)
15.66min 429.952ug/l m
response 12629107818

MLP 7/11 *MLP 7/11*

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY049.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 12:05 am
 Operator : M.PEDRO
 Sample : kep/fam mh
 Misc : initial cal
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:28:06 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

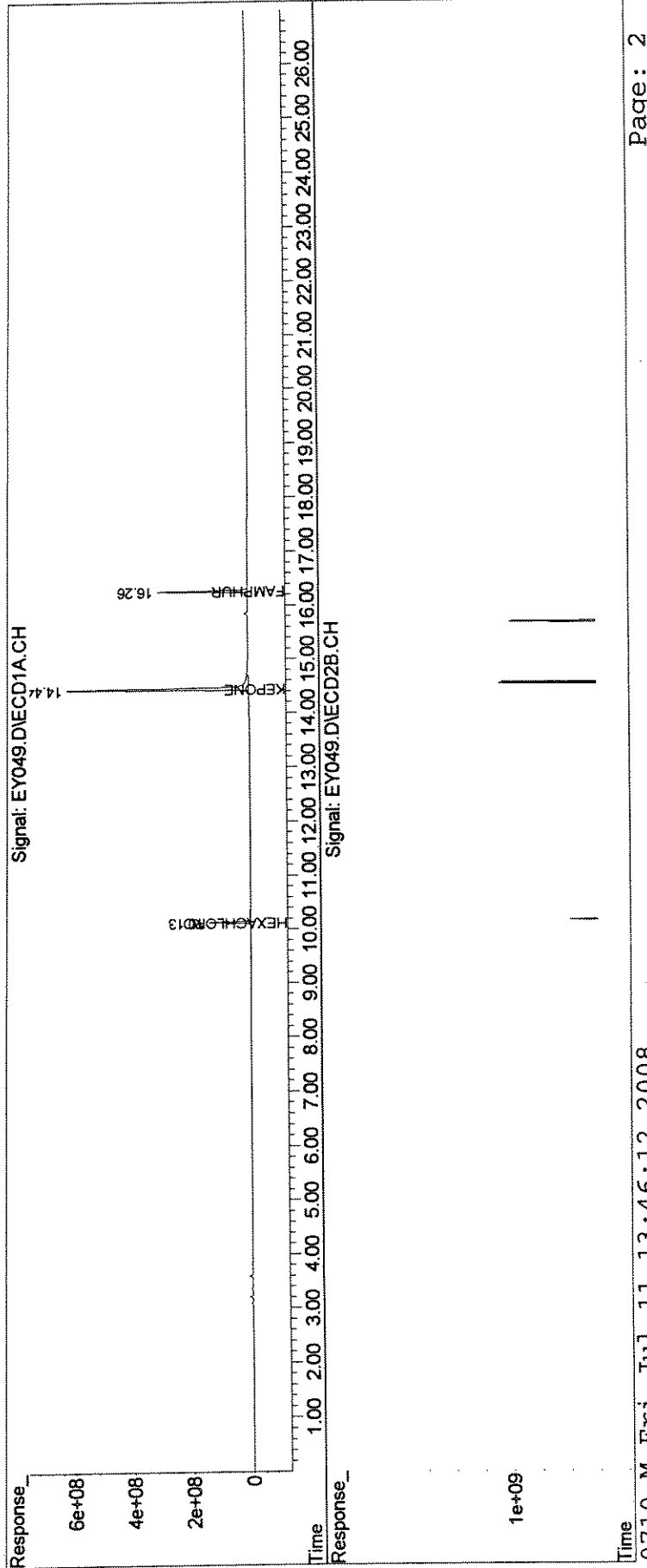
2) TC	HEXACHLOROBENZEN	10.13	10.14	2229.2E6	8817.5E6	78.559	94.475
.6) tc	KEPONE	14.45	14.52	14895.0E6	48142.9E6	2229.728	2946.282 #
13) tc	FAMPHUR	16.26	15.66	5397.9E6	16350.4E6	422.254	556.643m#
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY049.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 12:05 am
 Operator : M.PEDRO
 Sample : kep/fam mh
 Misc : initial cal
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:28:06 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



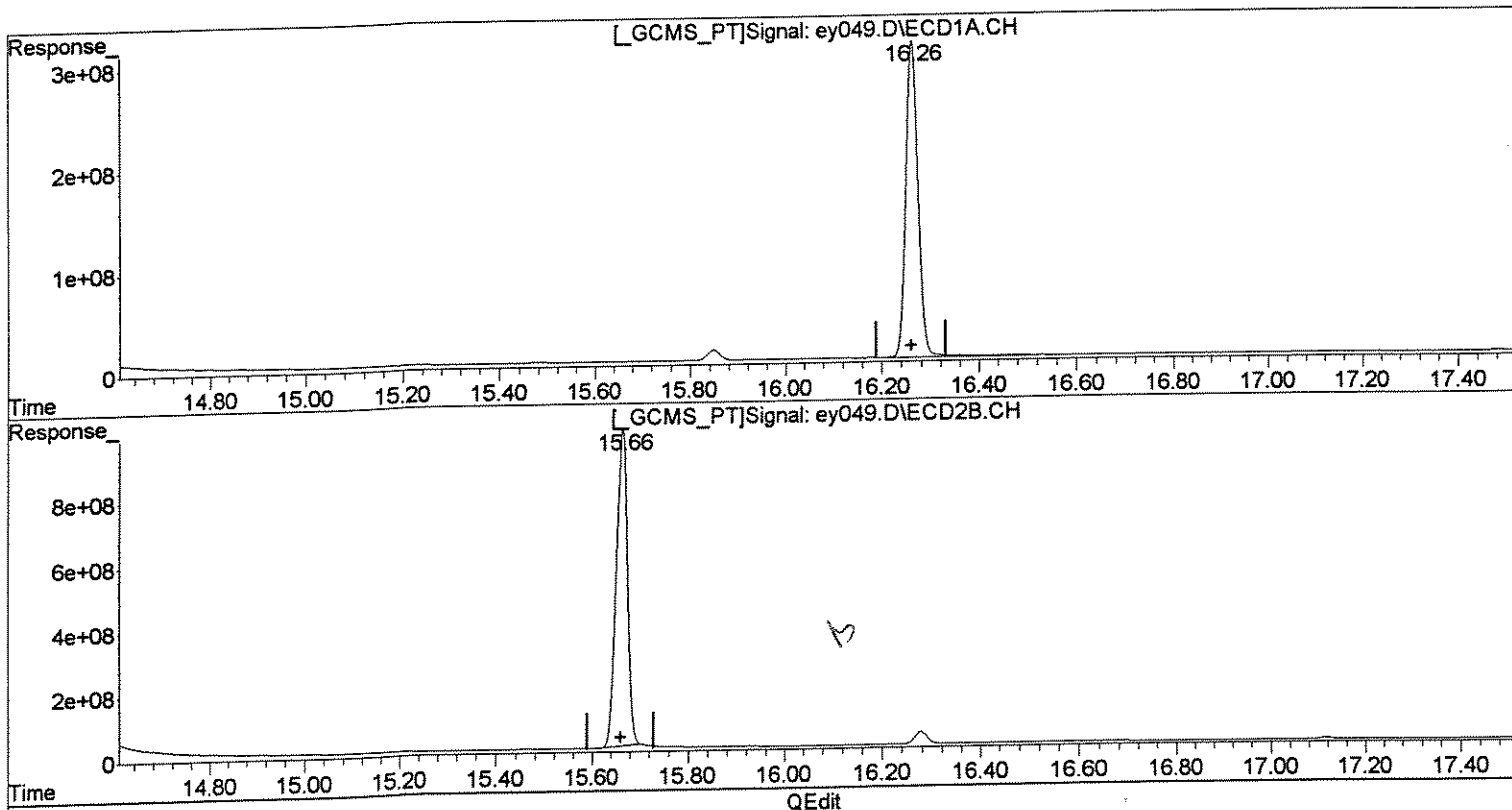
81077

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:05 am
Operator : M.PEDRO
Sample : kep/fam mh
Misc : initial cal
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:25 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 422.254ug/l
response 5397900508

(23) FAMPHUR #2 (tc)
15.66min 541.693ug/l
response 15911309862

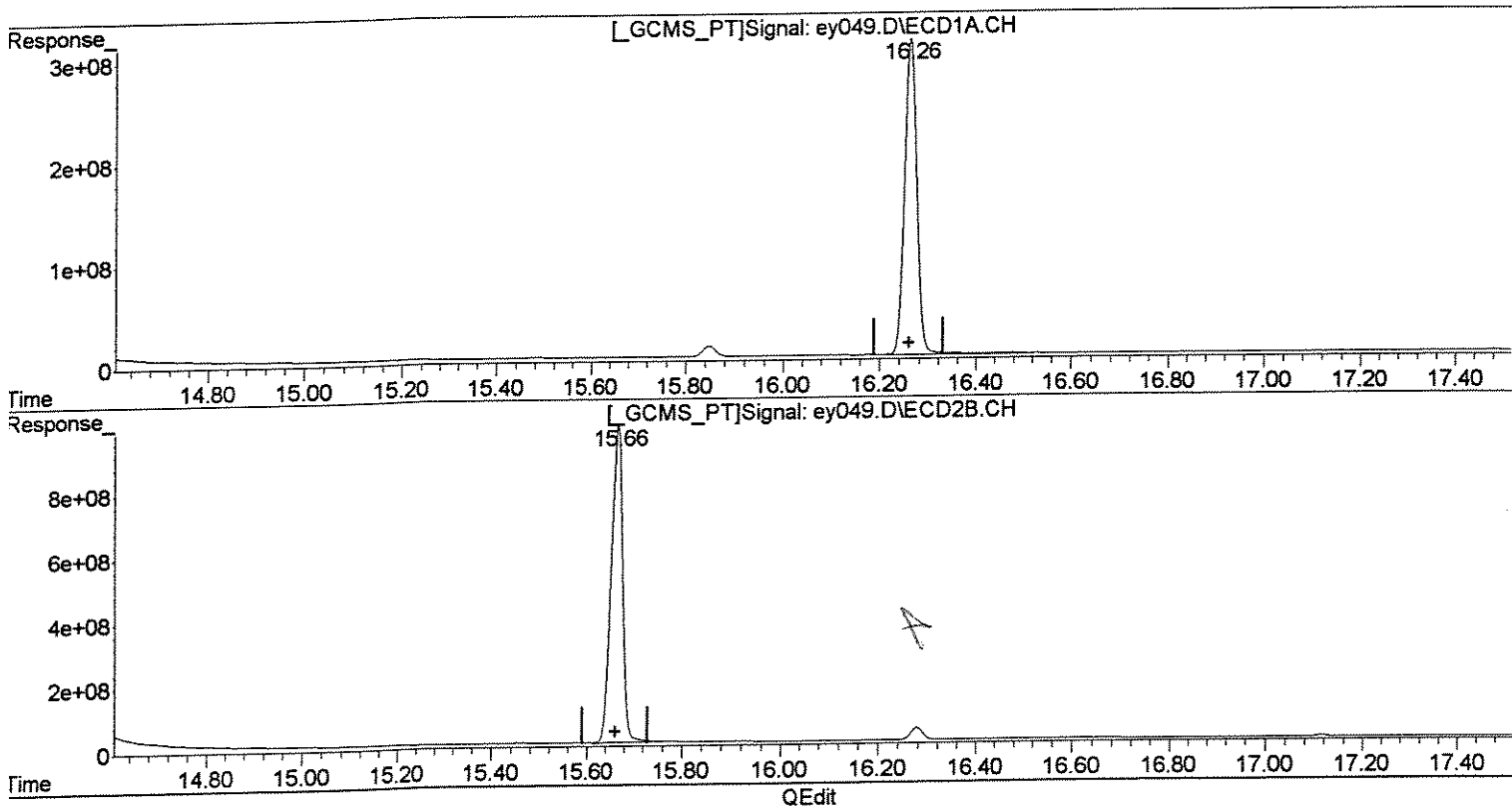
handwritten mark

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:05 am
Operator : M.PEDRO
Sample : kep/fam mh
Misc : initial cal
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:25 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 422.254ug/l
response 5397900508

(23) FAMPHUR #2 (tc)
15.66min 556.643ug/l m
response 16350447651

M09 7/11
M09 7/11

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : EY050.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 12:41 am
 Operator : M.PEDRO
 Sample : kep/fam h
 Misc : initial cal
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:28:58 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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System Monitoring Compounds

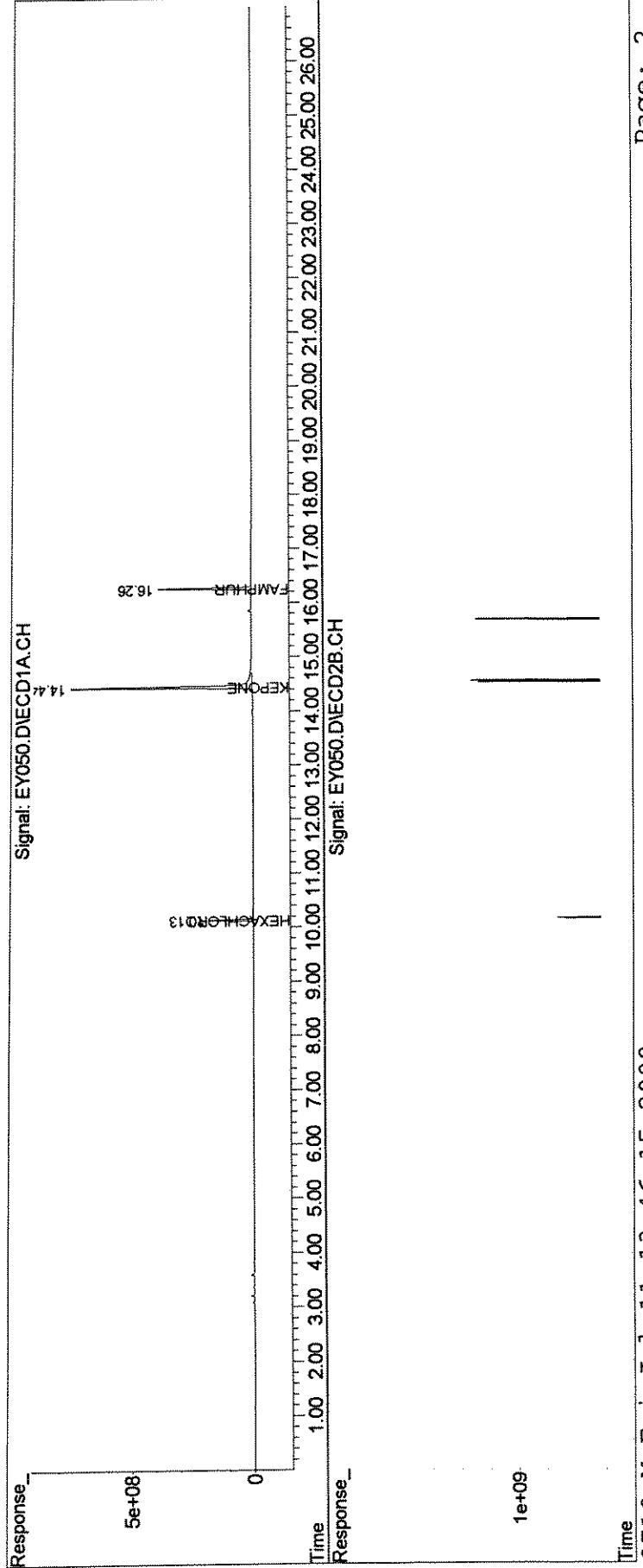
Target Compounds							
2) TC	HEXACHLOROBENZEN	10.13	10.14	2817.4E6	10905.2E6	99.289	116.843
6) tc	KEPONE	14.45	14.52	18112.3E6	56388.9E6	2711.335	3450.931 #
3) tc	FAMPHUR	16.26	15.66	6837.9E6	20604.6E6	534.897	701.472m#
	Sum Toxaphene			0	0	N.D.	N.D.
	verage Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:41 am
Operator : M.PEDRO
Sample : kep/fam h
Misc : initial cal
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:28:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

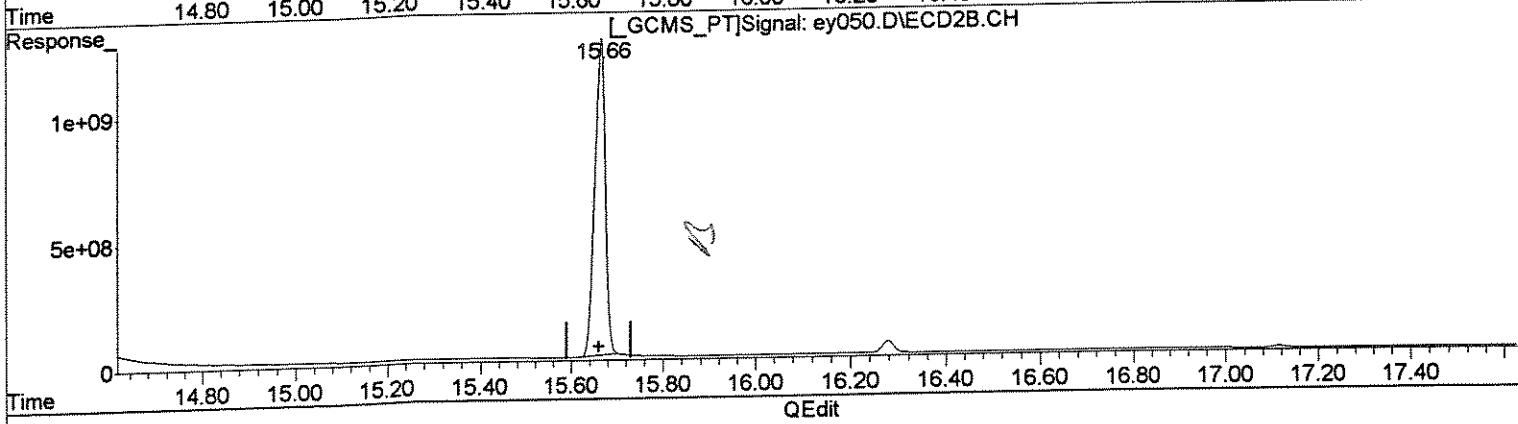
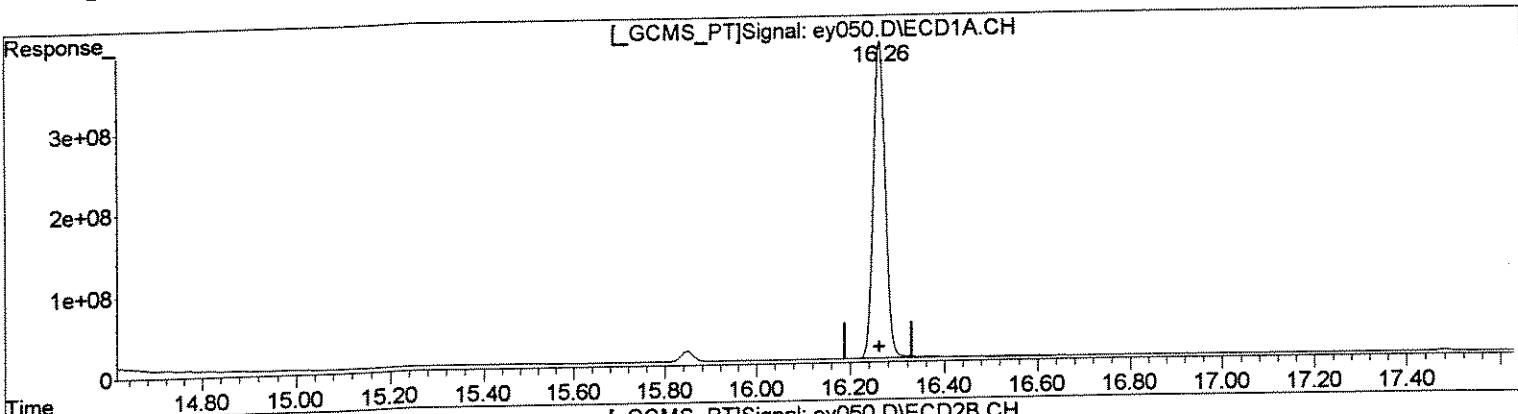


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:41 am
Operator : M.PEDRO
Sample : kep/fam h
Misc : initial cal
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:29 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 534.897ug/l
response 6837873013

(23) FAMPHUR #2 (tc)
15.66min 682.980ug/l
response 20061395940

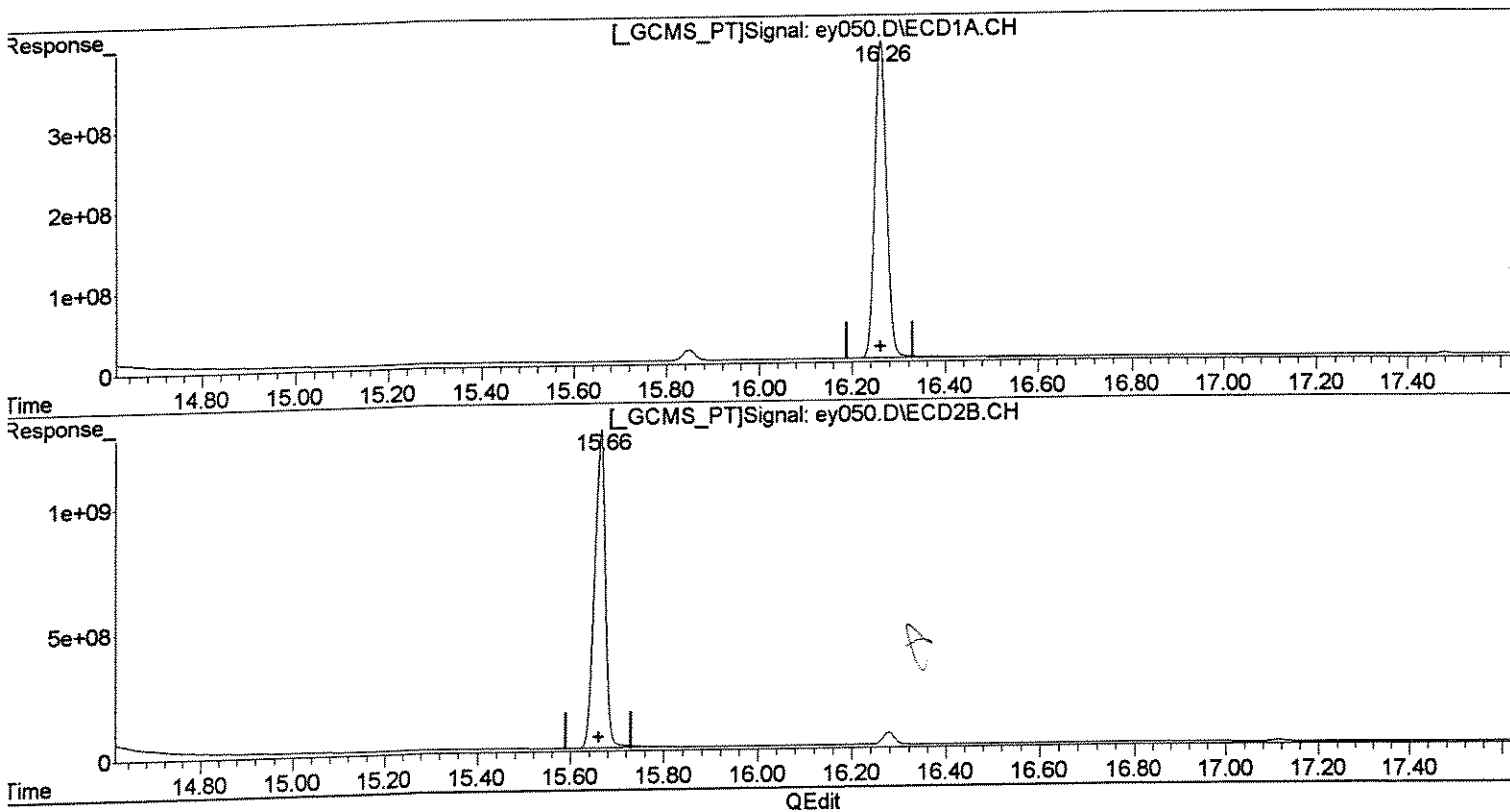
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:41 am
Operator : M.PEDRO
Sample : kep/fam h
Misc : initial cal
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:29 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 534.897ug/l
response 6837873013

(23) FAMPHUR #2 (tc)
15.66min 701.472ug/l m
response 20604553043

mp 7/11 *mv 7/11*

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY052.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 1:52 am
 Operator : M.PEDRO
 Sample : tox 1
 Misc : initial cal
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:29:50 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

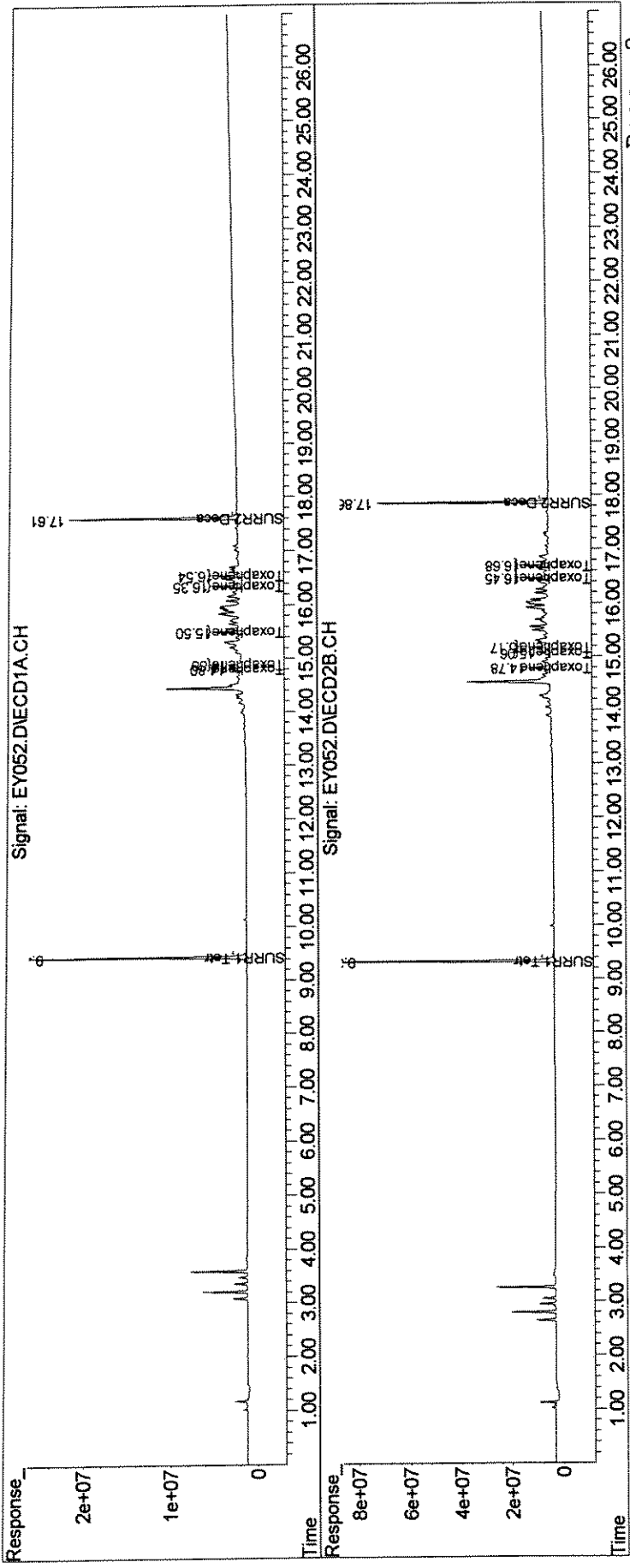
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	412.8E6	1693.2E6	22.371	28.807 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		22.37%#	28.81%#
5) S SURR2,Decachloro	17.61	17.86	358.7E6	1152.1E6	20.965	26.730 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.97%#	26.73%#
Target Compounds						
6) L8C Toxaphene	14.80	14.78	34630469	193.8E6	80.377m	138.631 #
7) L8C Toxaphene {2}	14.88	15.06	33184045	85286547	83.567m	109.986 #
8) L8C Toxaphene {3}	15.50	15.17	60026218	177.8E6	88.189	115.832 #
9) L8C Toxaphene {4}	16.35	16.45	73675628	182.5E6	79.715	123.180 #
0) L8C Toxaphene {5}	16.54	16.68	57709408	202.6E6	98.614	164.138 #
Sum Toxaphene			259.2E6	842.0E6	430.462	651.767
verage Toxaphene					86.092	130.353
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY052.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 1:52 am
 Operator : M.PEDRO
 Sample : tox 1
 Misc : initial cal
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:29:50 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

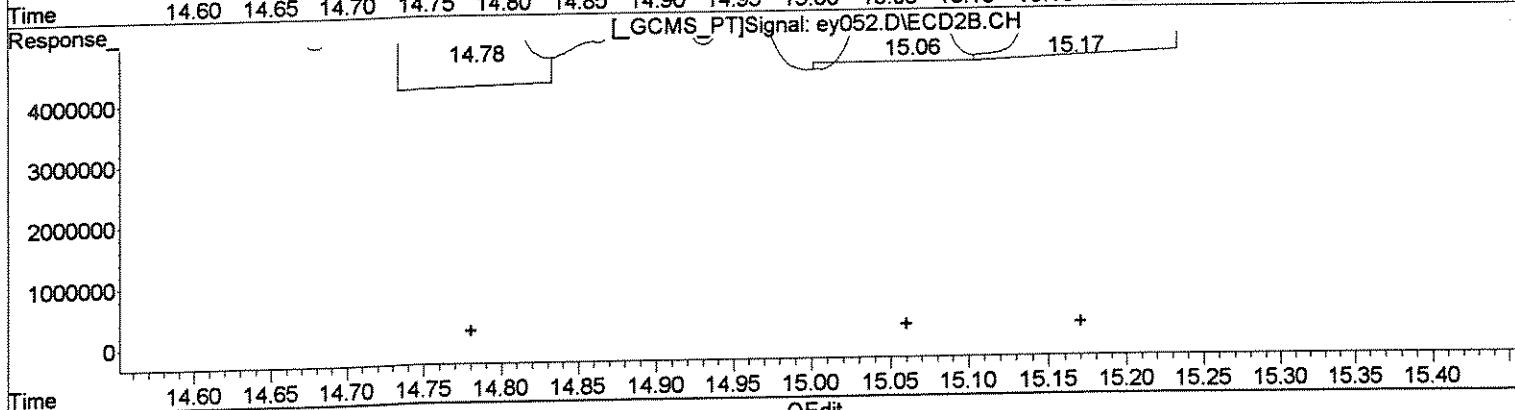
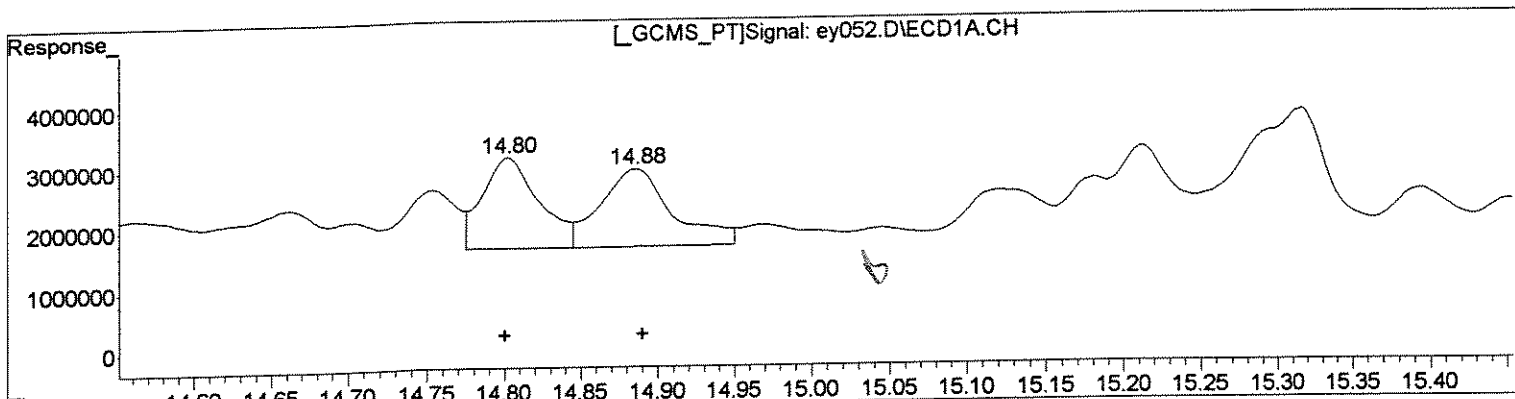


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey052.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 1:52 am
 Operator : M.PEDRO
 Sample : tox 1
 Misc : initial cal
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 11:01:34 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) Toxaphene (L8C)

R.T.	Response	Conc
14.80	39043204	90.62
14.89	41383569	104.22
15.50	60026218	88.19
16.35	73675628	79.71
16.54	57709408	98.61

(26) Toxaphene #2 (L8C)

R.T.	Response	Conc
14.78	193784941	138.63
15.06	85286547	109.99
15.17	177772552	115.83
16.45	182541318	123.18
16.68	202598619	164.14

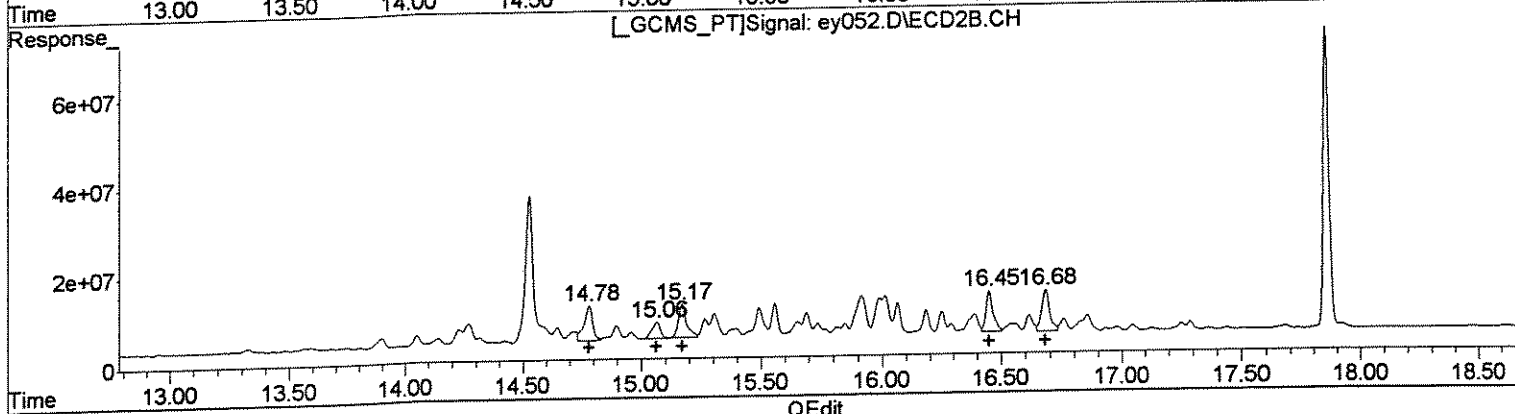
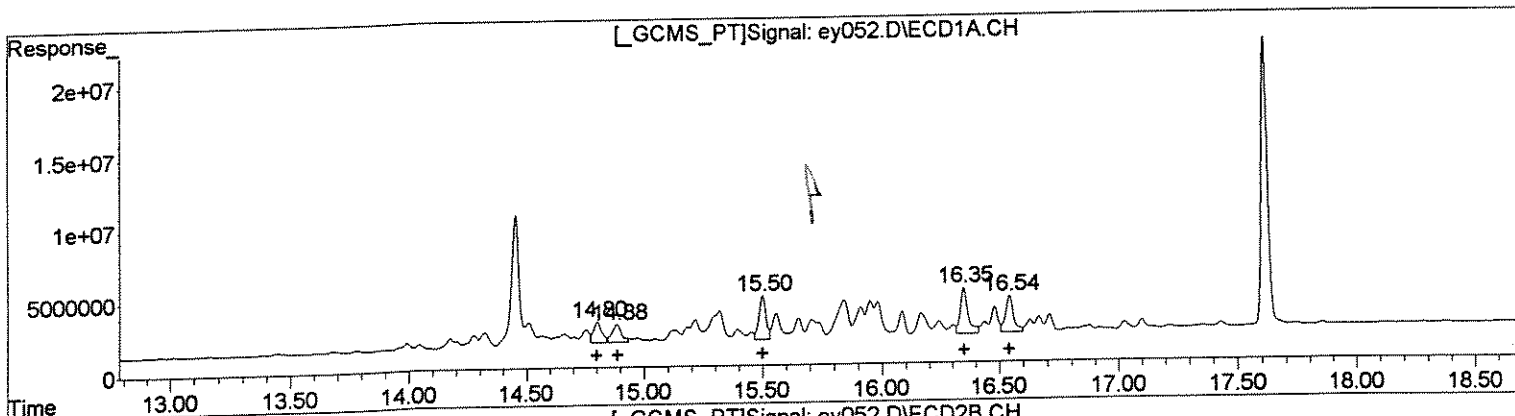
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey052.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 1:52 am
 Operator : M.PEDRO
 Sample : tox 1
 Misc : initial cal
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 11:01:34 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(26) Toxaphene #2 (L8C)		
R.T.	Response	Conc
14.80	34630469	80.38
14.88	33184045	83.57
15.50	60026218	88.19
16.35	73675628	79.71
16.54	57709408	98.61
(26) Toxaphene #2 (L8C)		
R.T.	Response	Conc
14.78	193784941	138.63
15.06	85286547	109.99
15.17	177772552	115.83
16.45	182541318	123.18
16.68	202598619	164.14

MP
7/11

MP
7/11

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : EY053.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 2:27 am
 Operator : M.PEDRO
 Sample : tox ml
 Misc : initial cal
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:30:20 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	842.3E6	3371.8E6	45.651	57.366 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		45.65%	57.37%
5) S SURR2,Decachloro	17.61	17.86	721.8E6	2303.7E6	42.185	53.447 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		42.19%	53.45%
Target Compounds						
6) L8C Toxaphene	14.80	14.78	97648280	476.5E6	226.641	340.867 #
7) L8C Toxaphene {2}	14.89	15.06	94346720	223.9E6	237.592	288.764
8) L8C Toxaphene {3}	15.50	15.17	163.5E6	462.3E6	240.186	301.235 #
9) L8C Toxaphene {4}	16.35	16.45	200.1E6	474.6E6	216.503	320.238 #
0) L8C Toxaphene {5}	16.54	16.68	161.6E6	554.2E6	276.206	448.989 #
Sum Toxaphene			717.2E6	2191.5E6	1197.128	1700.093
verage Toxaphene					239.426	340.019
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

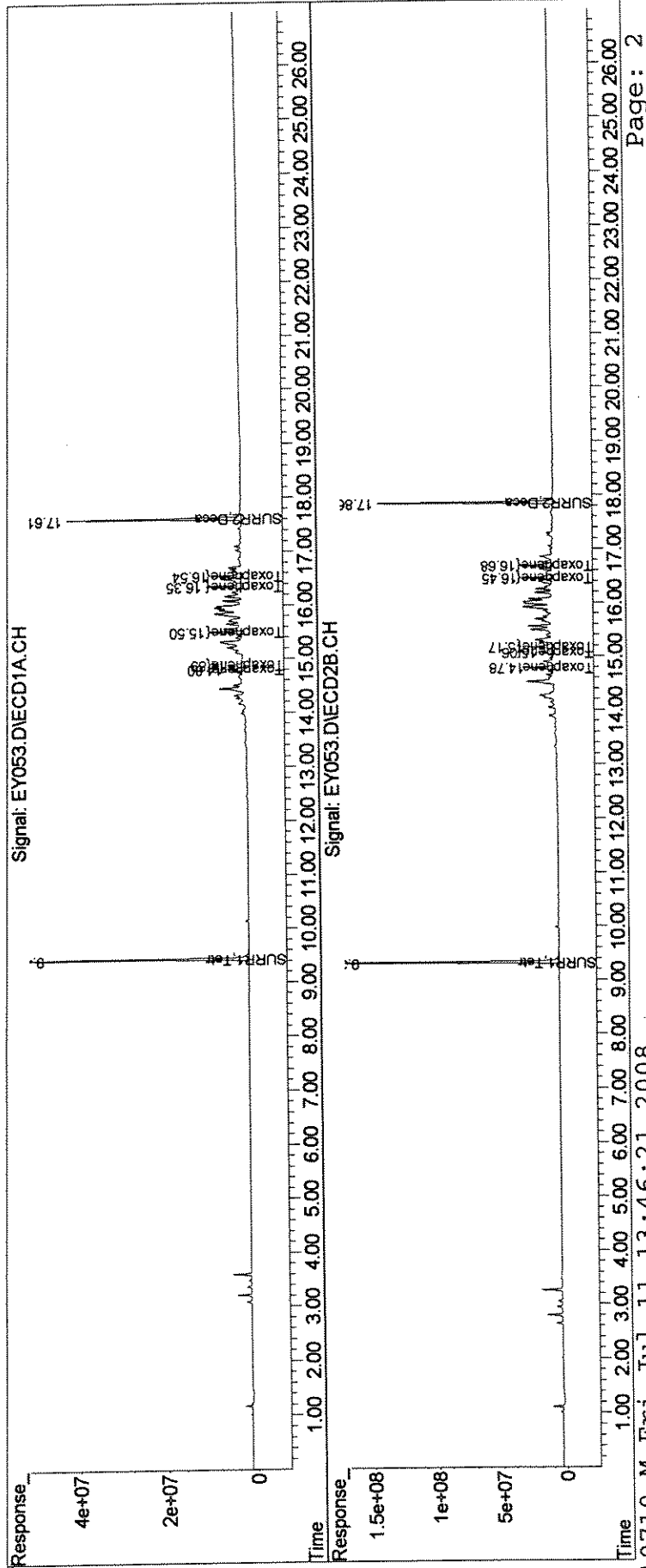
MW
7/11

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\071008\
 Data File : EY053.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 2:27 am
 Operator : M.PEDRO
 Sample : tox ml
 Misc : initial cal
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:30:20 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : EY054.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 3:03 am
 Operator : M.PEDRO
 Sample : tox m
 Misc : initial cal
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:30:46 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

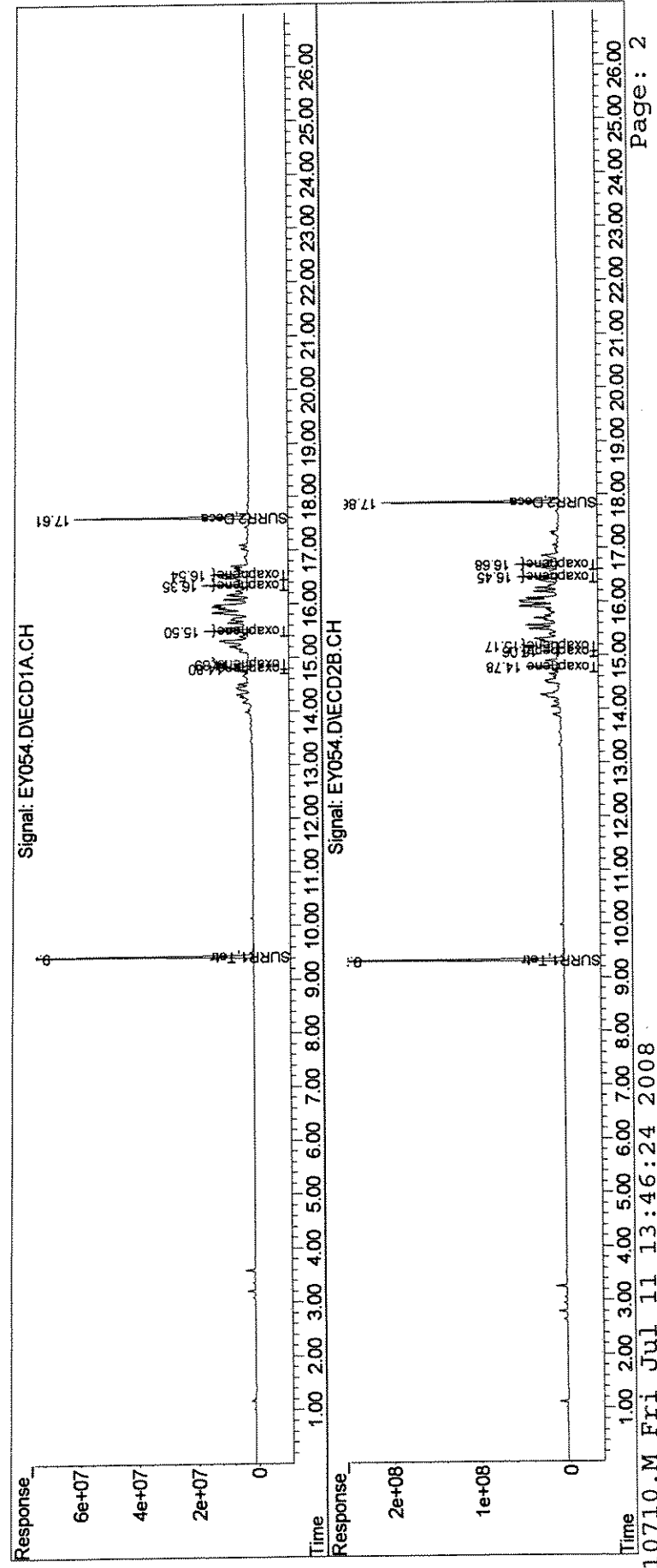
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1264.2E6	4919.8E6	68.517	83.703
Spiked Amount	100.000	Range 30 - 150	Recovery =		68.52%	83.70% #
5) S SURR2,Decachloro	17.61	17.86	1083.2E6	3430.6E6	63.305	79.592 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		63.31%	79.59% #
Target Compounds						
6) L8C Toxaphene	14.80	14.78	193.4E6	903.7E6	448.900	646.487 #
7) L8C Toxaphene {2}	14.89	15.06	156.8E6	427.5E6	394.754	551.305 #
8) L8C Toxaphene {3}	15.50	15.17	319.8E6	881.3E6	469.812	574.244
9) L8C Toxaphene {4}	16.35	16.45	388.7E6	904.9E6	420.536	610.608 #
0) L8C Toxaphene {5}	16.54	16.68	317.4E6	1072.1E6	542.332	868.541 #
Sum Toxaphene			1376.0E6	4189.4E6	2276.334	3251.185
verage Toxaphene					455.267	650.237
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY054.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 3:03 am
 Operator : M.PEDRO
 Sample : tox m
 Misc : initial cal
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:30:46 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



161391

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY055.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 3:38 am
 Operator : M.PEDRO
 Sample : tox mh
 Misc : initial cal
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:31:19 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

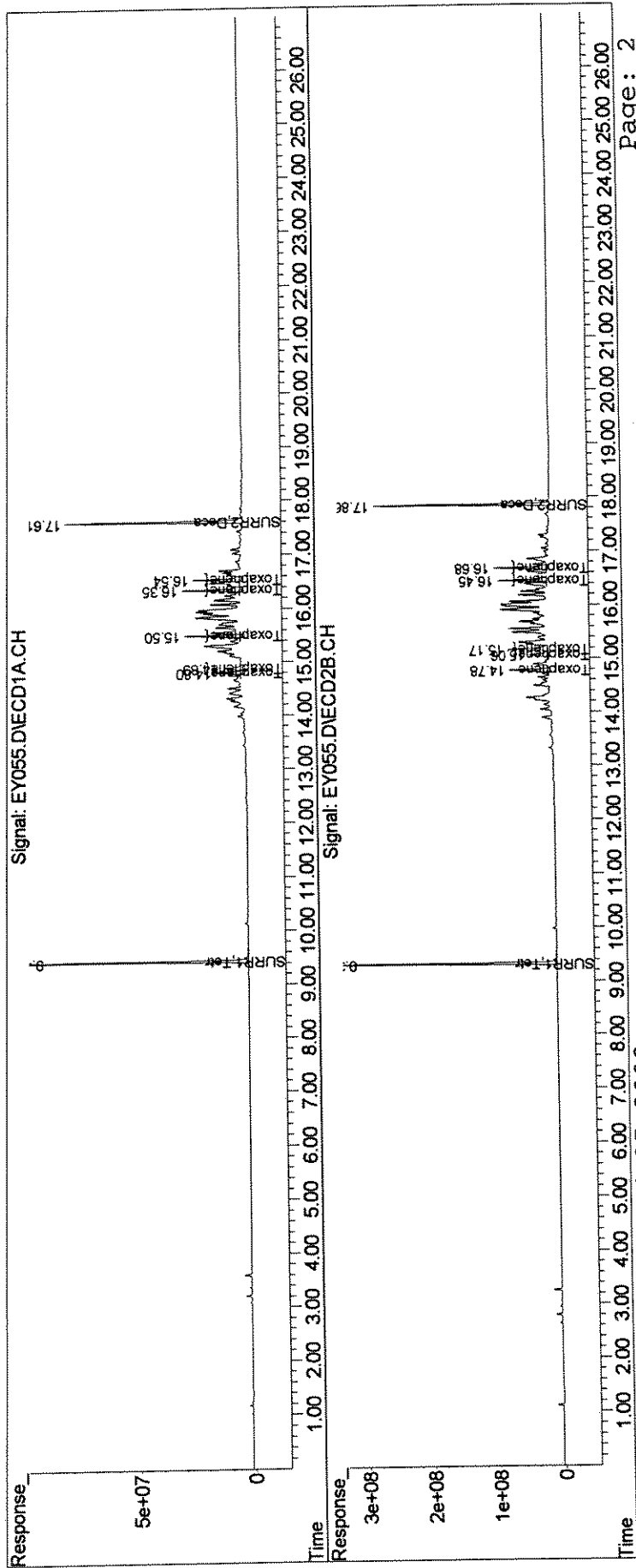
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1706.9E6	6498.9E6	92.507	110.569
Spiked Amount	100.000	Range 30 - 150	Recovery =		92.51%	110.57%
5) S SURR2,Decachloro	17.61	17.86	1475.0E6	4619.1E6	86.204	107.165
Spiked Amount	100.000	Range 30 - 150	Recovery =		86.20%	107.16%
Target Compounds						
6) L8C Toxaphene	14.80	14.78	320.4E6	1493.0E6	743.593	1068.053 #
7) L8C Toxaphene {2}	14.89	15.06	289.8E6	705.3E6	729.833	909.615
8) L8C Toxaphene {3}	15.50	15.17	544.1E6	1469.1E6	799.415	957.199
9) L8C Toxaphene {4}	16.35	16.45	656.8E6	1520.8E6	710.669	1026.265 #
0) L8C Toxaphene {5}	16.54	16.68	542.8E6	1816.8E6	927.499	1471.888 #
Sum Toxaphene			2353.9E6	7005.0E6	3911.009	5433.020
verage Toxaphene					782.202	1086.604
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY055.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 3:38 am
Operator : M.PEDRO
Sample : tox mh
Misc : initial cal
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:31:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY056.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 4:14 am
 Operator : M.PEDRO
 Sample : tox h
 Misc : initial cal
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:31:46 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	2140.9E6	8008.4E6	116.031	136.250
Spiked Amount	100.000	Range 30 - 150	Recovery =		116.03%	136.25%
5) S SURR2,Decachloro	17.61	17.86	1866.9E6	5860.5E6	109.106	135.966
Spiked Amount	100.000	Range 30 - 150	Recovery =		109.11%	135.97%

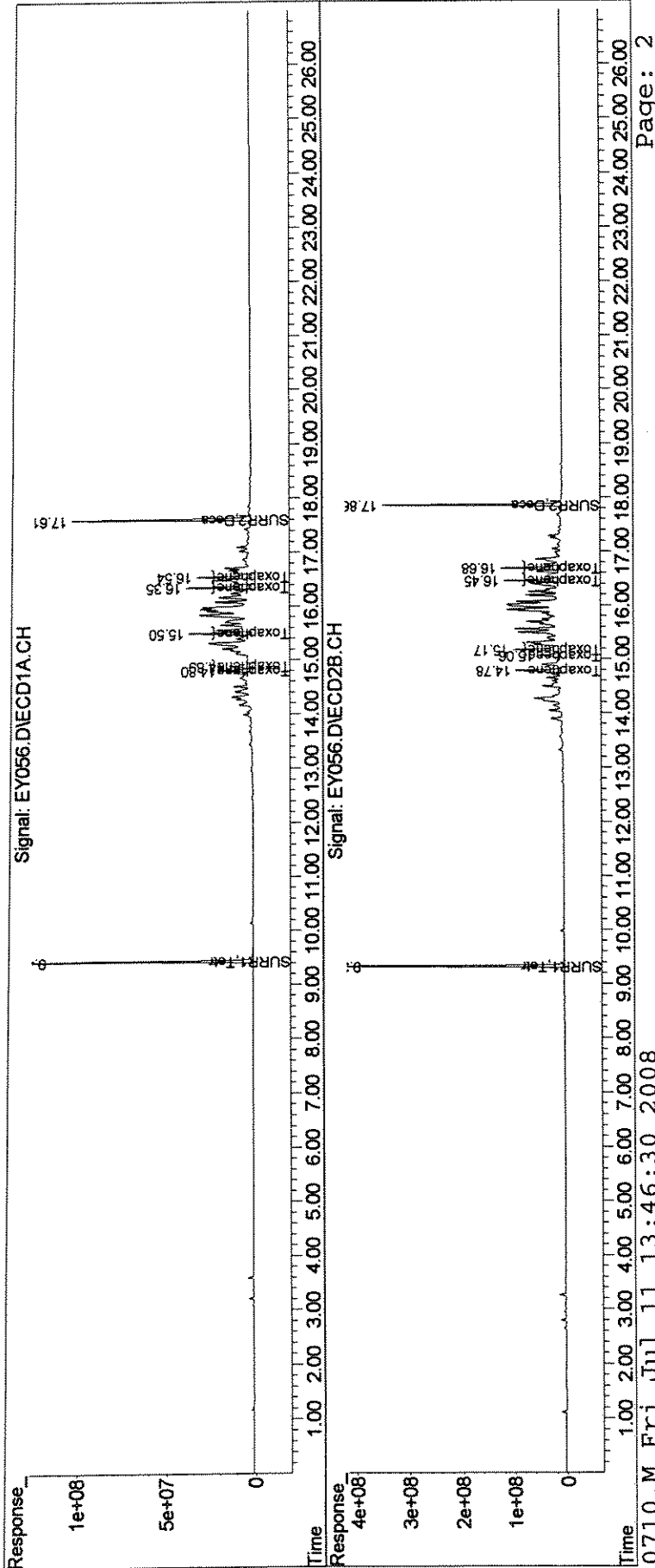
Target Compounds						
6) L8C Toxaphene	14.80	14.78	443.4E6	2032.5E6	1029.229	1454.037 #
7) L8C Toxaphene {2}	14.89	15.06	369.7E6	966.8E6	930.998	1246.835 #
8) L8C Toxaphene {3}	15.50	15.17	746.0E6	1998.6E6	1095.947	1302.217
9) L8C Toxaphene {4}	16.35	16.45	902.2E6	2069.2E6	976.111	1396.316 #
10) L8C Toxaphene {5}	16.54	16.68	746.0E6	2472.7E6	1274.721	2003.280 #
Sum Toxaphene			3207.2E6	9539.8E6	5307.006	7402.686
Average Toxaphene					1061.401	1480.537
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY056.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 4:14 am
Operator : M.PEDRO
Sample : tox h
Misc : initial cal
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:31:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01395

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY057.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 4:49 am
 Operator : M.PEDRO
 Sample : chlor l
 Misc : initial cal
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:32:22 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

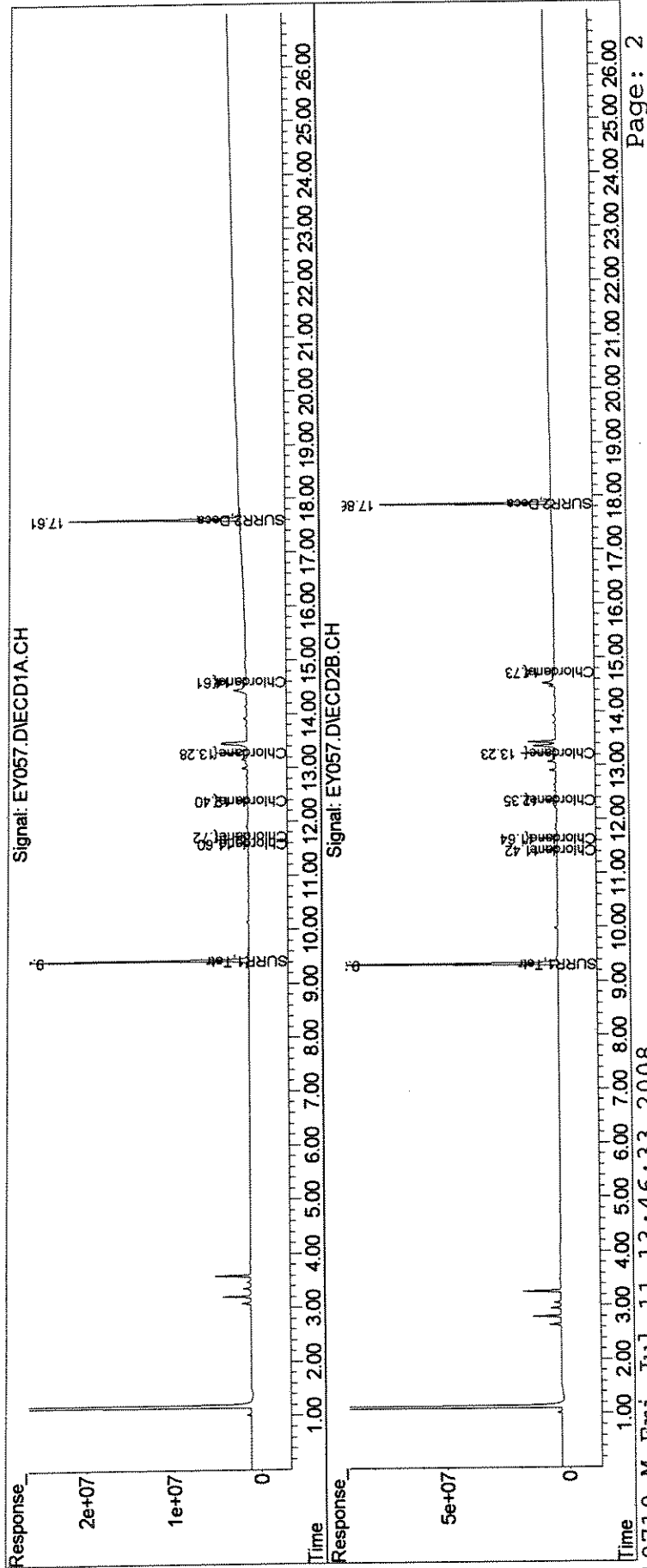
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	416.4E6	1689.2E6	22.567	28.740 #
Spiked Amount	100.000	Range 30 -	150	Recovery =	22.57%#	28.74%#
5) S SURR2,Decachloro	17.61	17.86	379.3E6	1214.2E6	22.167	28.170 #
Spiked Amount	100.000	Range 30 -	150	Recovery =	22.17%#	28.17%#
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
1) L9C Chlordane	11.60	11.42	19799636	79985155	26.545	31.488
2) L9C Chlordane {2}	11.72	11.64	27122912	109.8E6	25.314	33.209 #
3) L9C Chlordane {3}	12.40	12.35	27280528	94374008	28.224	35.662 #
4) L9C Chlordane {4}	13.28	13.23	64201779	241.9E6	23.986	36.655 #
5) L9C Chlordane {5}	14.61	14.73	25322117	94015327	28.093	36.725 #
Sum Chlordane			163.7E6	620.0E6	132.161	173.739
verage Chlordane					26.432	34.748

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY057.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 4:49 am
 Operator : M.PEDRO
 Sample : chlor l
 Misc : initial cal
 ALS Vial : 24 Sample Multiplier: 1

 Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:32:22 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01397

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY058.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 5:25 am
 Operator : M.PEDRO
 Sample : chlor ml
 Misc : initial cal
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:32:55 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

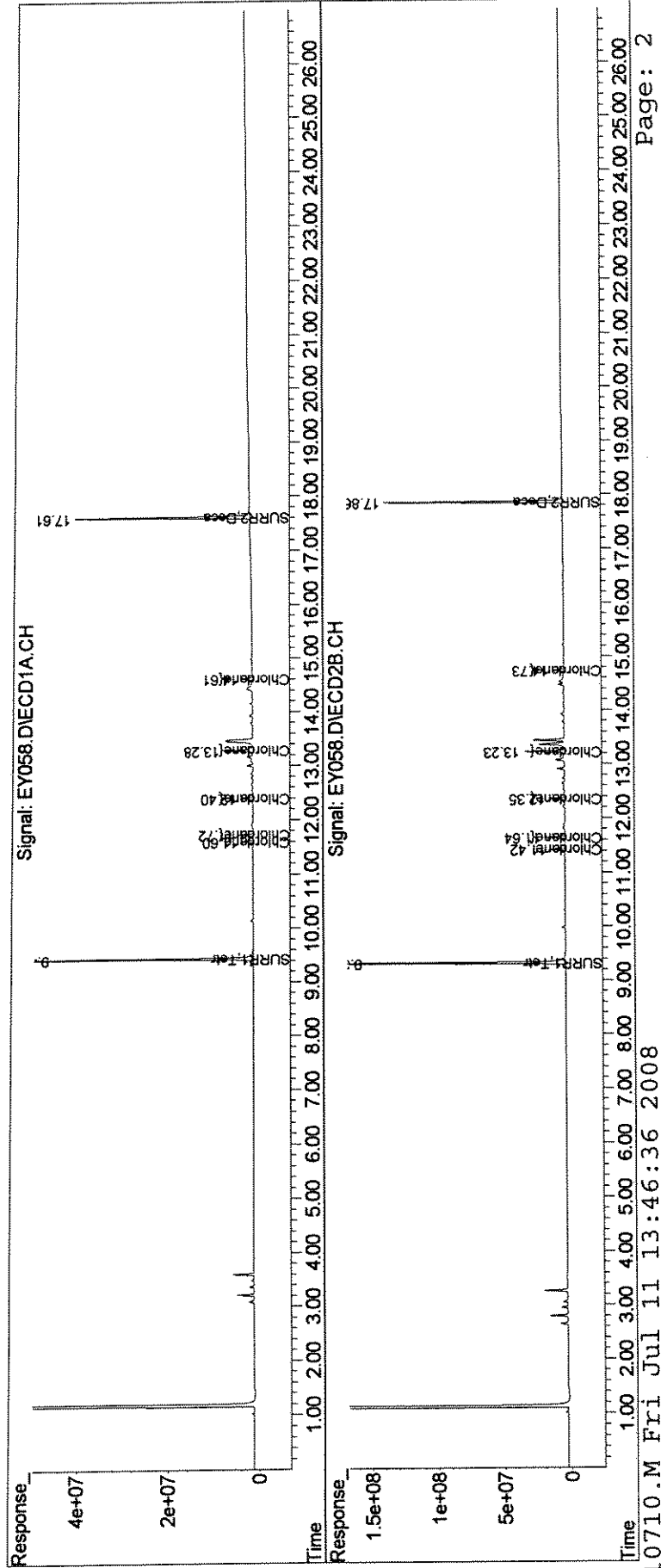
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	808.6E6	3239.3E6	43.825	55.111 #
Spiked Amount	100.000	Range	30 - 150	Recovery =	43.83%	55.11%
5) S SURR2,Decachloro	17.61	17.86	687.5E6	2311.4E6	40.181	53.625 #
Spiked Amount	100.000	Range	30 - 150	Recovery =	40.18%	53.63%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
1) L9C Chlordane	11.60	11.42	39061951	161.7E6	52.370	63.666
2) L9C Chlordane {2}	11.72	11.64	54692888	225.6E6	51.045	68.235 #
3) L9C Chlordane {3}	12.40	12.35	52450841	183.0E6	54.264	69.166 #
4) L9C Chlordane {4}	13.28	13.23	134.4E6	495.4E6	50.227	75.076 #
5) L9C Chlordane {5}	14.61	14.73	45606330	171.0E6	50.597	66.806 #
Sum Chlordane			326.3E6	1236.7E6	258.502	342.950
verage Chlordane					51.700	68.590

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY058.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 5:25 am
 Operator : M.PEDRO
 Sample : chlor ml
 Misc : initial cal
 ALS Vial : 25 Sample Multiplier: 1

 Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:32:55 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



51 059

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY059.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 6:00 am
 Operator : M.PEDRO
 Sample : chlor m
 Misc : initial cal
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:33:27 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

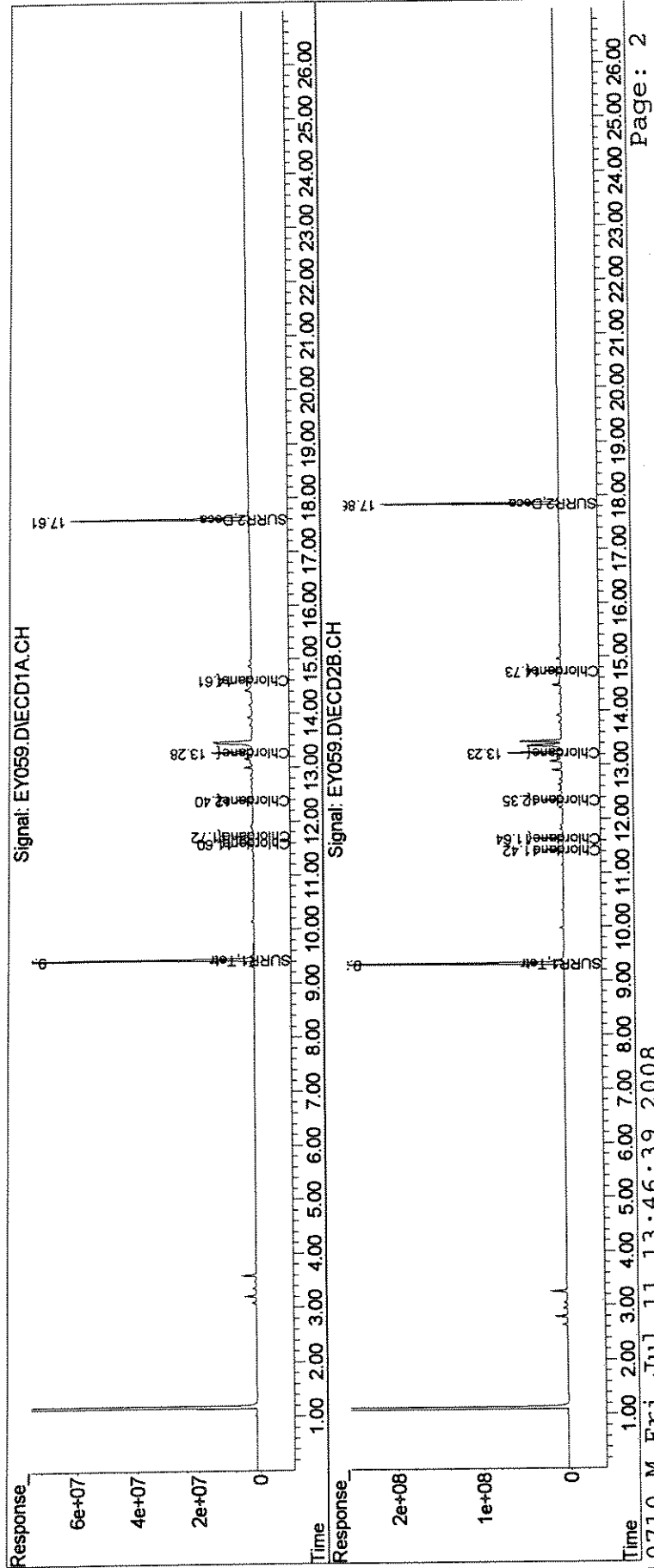
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1255.5E6	4842.2E6	68.045	82.383
Spiked Amount	100.000	Range 30 - 150	Recovery =		68.05%	82.38%
5) S SURR2,Decachloro	17.61	17.86	1060.9E6	3542.7E6	62.004	82.192 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		62.00%	82.19%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
1) L9C Chlordane	11.60	11.42	79025921	326.1E6	105.949	128.380
2) L9C Chlordane {2}	11.72	11.64	112.6E6	459.4E6	105.083	138.964 #
3) L9C Chlordane {3}	12.40	12.35	102.7E6	360.9E6	106.293	136.385 #
4) L9C Chlordane {4}	13.28	13.23	278.1E6	1023.4E6	103.896	155.102 #
5) L9C Chlordane {5}	14.61	14.73	90282055	344.5E6	100.162	134.568 #
Sum Chlordane			662.7E6	2514.3E6	521.382	693.399
verage Chlordane					104.276	138.680

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY059.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 6:00 am
Operator : M.PEDRO
Sample : chlor m
Misc : initial cal
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:33:27 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY060.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 6:36 am
 Operator : M.PEDRO
 Sample : chlor mh
 Misc : initial cal
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:33:59 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

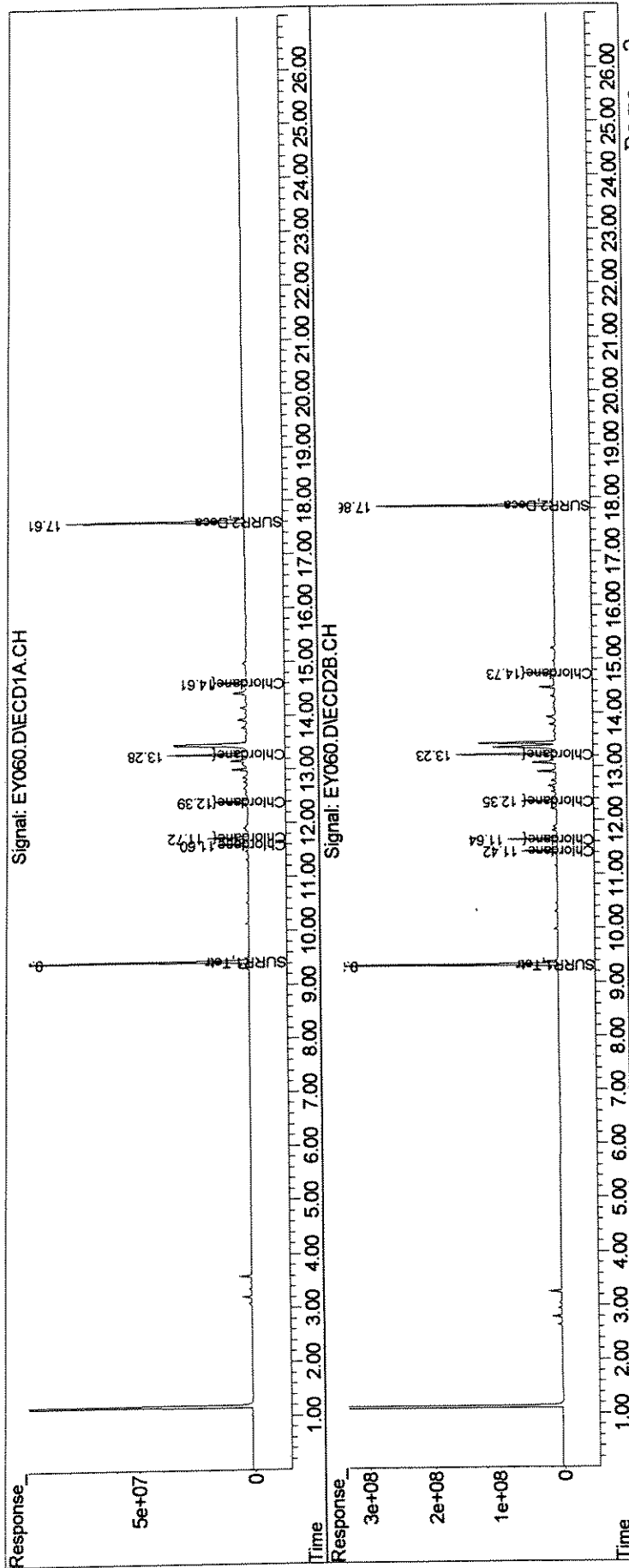
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1679.2E6	6361.7E6	91.006	108.235
Spiked Amount	100.000	Range 30 - 150	Recovery =		91.01%	108.23%
5) S SURR2,Decachloro	17.61	17.86	1405.6E6	4666.5E6	82.145	108.265 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		82.14%	108.27%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
1) L9C Chlordane	11.60	11.42	200.2E6	810.3E6	268.371	319.010
2) L9C Chlordane {2}	11.72	11.64	287.4E6	1138.0E6	268.185	344.249 #
3) L9C Chlordane {3}	12.40	12.35	248.8E6	868.6E6	257.436	328.241 #
4) L9C Chlordane {4}	13.28	13.23	715.7E6	2550.7E6	267.376	386.561 #
5) L9C Chlordane {5}	14.61	14.73	227.1E6	870.8E6	251.929	340.150 #
Sum Chlordane			1679.1E6	6238.5E6	1313.297	1718.211
verage Chlordane					262.659	343.642

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY060.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 6:36 am
 Operator : M.PEDRO
 Sample : chlor mh
 Misc : initial cal
 ALS Vial : 27 Sample Multiplier: 1

 Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:33:59 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



51199

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY061.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 7:11 am
 Operator : M.PEDRO
 Sample : chlor h
 Misc : initial cal
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:34:29 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

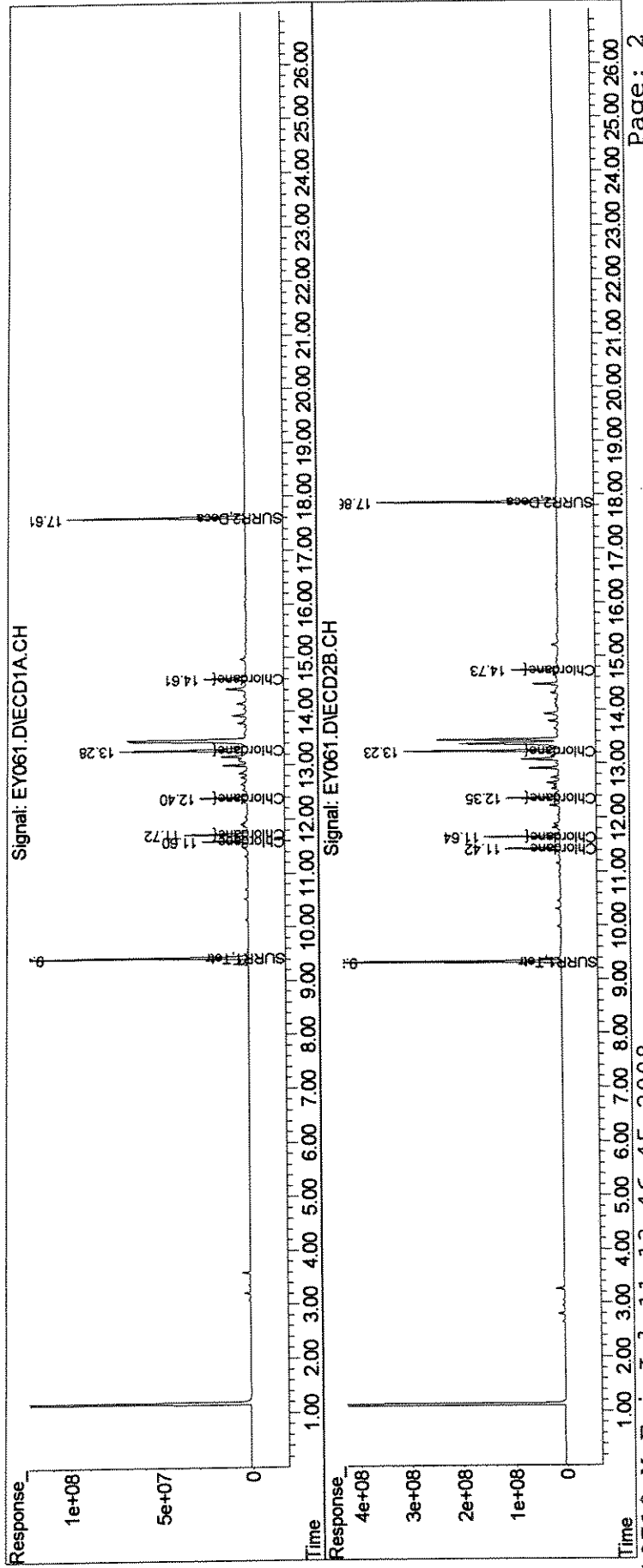
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	2102.5E6	7853.3E6	113.948	133.611
Spiked Amount	100.000	Range 30 -	150	Recovery =	113.95%	133.61%
5) S SURR2,Decachloro	17.61	17.86	1768.4E6	5883.7E6	103.349	136.504 #
Spiked Amount	100.000	Range 30 -	150	Recovery =	103.35%	136.50%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
1) L9C Chlordane	11.60	11.42	411.1E6	1615.6E6	551.164	636.032
2) L9C Chlordane {2}	11.72	11.64	589.3E6	2224.2E6	549.986	672.790
3) L9C Chlordane {3}	12.40	12.35	497.6E6	1689.7E6	514.766	638.509
4) L9C Chlordane {4}	13.28	13.23	1466.3E6	5042.9E6	547.807	764.260 #
5) L9C Chlordane {5}	14.61	14.73	467.9E6	1764.1E6	519.076	689.096 #
Sum Chlordane			3432.1E6	12336.5E6	2682.799	3400.687
verage Chlordane					536.560	680.137

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\071008\
 Data File : EY061.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 7:11 am
 Operator : M.PEDRO
 Sample : chlor h
 Misc : initial cal
 ALS Vial : 28 Sample Multiplier: 1

 Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:34:29 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 10:59:43 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01405

Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : ey051.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 1:16 am
 Operator : M.PEDRO
 Sample : kep/fam icv
 Misc : initial cal
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:59:25 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
16 tc KEPONE	7.316	9.121 E6	-24.7#	116	0.00
23 tc FAMPHUR	13.568	14.423 E6	-6.3	104	0.00
Signal #2					
16 tc KEPONE	22.994	29.181 E6	-26.9#	122	0.00
23 tc FAMPHUR	41.783	41.969 E6	-0.4	100	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1, Tetrac	20.181	0.000 E6	100.0#	0#	-9.44#
2 TC HEXACHLORO BENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
3 tc alpha-BHC	30.916	0.000 E6	100.0#	0#	-10.44#
4 tcm gamma-BHC (L)	28.206	0.000 E6	100.0#	0#	-10.97#
5 tcm Heptachlor	27.944	0.000 E6	100.0#	0#	-11.73#
6 tcm Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#
7 tc beta-BHC	11.483	0.000 E6	100.0#	0#	-11.12#
8 TC delta-BHC	27.198	0.000 E6	100.0#	0#	-11.40#
9 tc Heptachlor E	22.762	0.000 E6	100.0#	0#	-13.10#
10 tc alpha-Endosu	20.460	0.000 E6	100.0#	0#	-13.68#
11 tc gamma-Chlord	21.924	0.000 E6	100.0#	0#	-13.28#
12 tc alpha-Chlord	21.387	0.000 E6	100.0#	0#	-13.48#
13 tc 4,4'-DDE	21.781	0.000 E6	100.0#	0#	-13.58#
14 tcm Dieldrin	22.843	0.000 E6	100.0#	0#	-14.03#
15 tcm Endrin	20.719	0.000 E6	100.0#	0#	-14.38#
17 tc beta-Endosul	18.589	0.000 E6	100.0#	0#	-14.72#
18 tc 4,4'-DDD	17.994	0.000 E6	100.0#	0#	-14.46#
19 tcm 4,4'-DDT	19.138	0.000 E6	100.0#	0#	-14.87#
20 tc Endrin Aldehy	14.678	0.000 E6	100.0#	0#	-15.35#
21 tc Endosulfan S	16.846	0.000 E6	100.0#	0#	-15.99#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : ey051.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 1:16 am
 Operator : M.PEDRO
 Sample : kep/fam icv
 Misc : initial cal
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:59:25 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

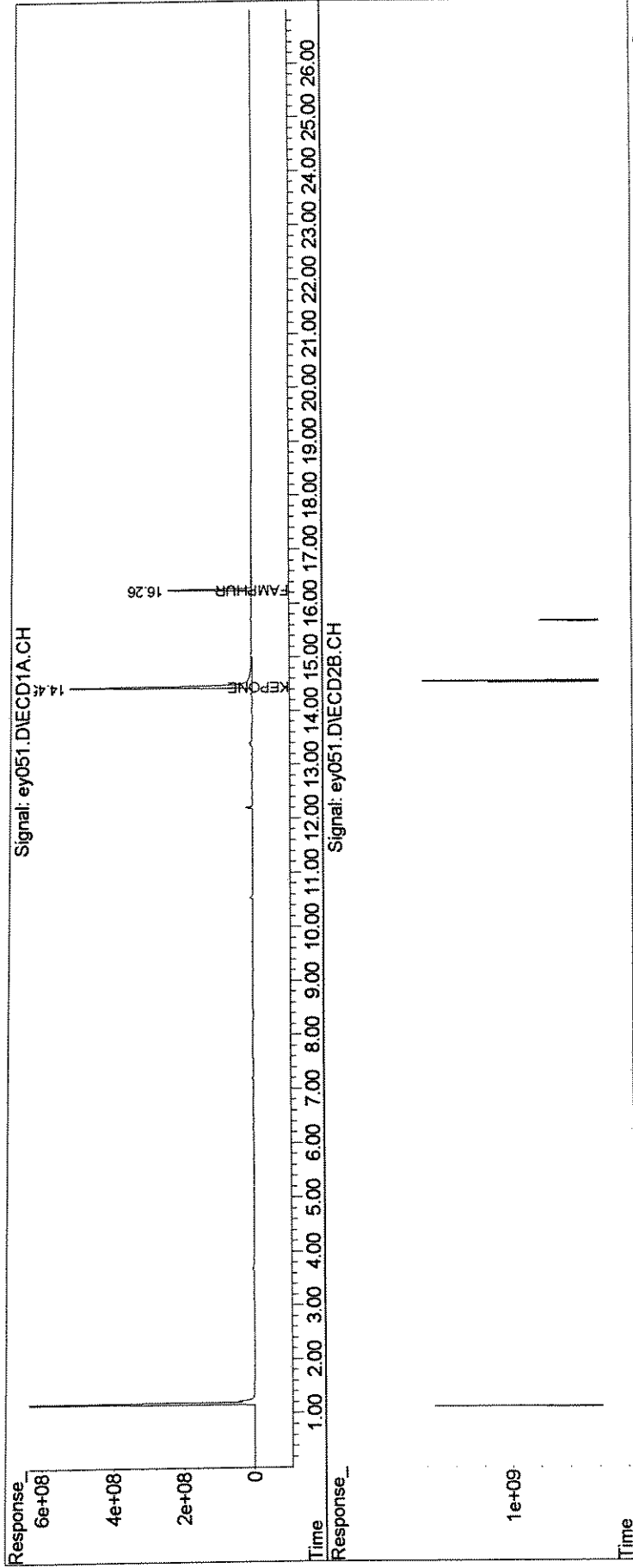
Target Compounds							
6) tc	KEPONE	14.45	14.53	13681.8E6	43771.0E6	1870.182	1903.560
3) tc	FAMPHUR	16.26	15.66	4326.9E6	12590.6E6	318.894	301.331
	Sum Toxaphene			0	0	N.D.	N.D.
	verage Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey051.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 1:16 am
 Operator : M.PEDRO
 Sample : kep/fam icv
 Misc : initial cal
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:59:25 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



81553

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey062.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 7:47 am
 Operator : M.PEDRO
 Sample : pest icv
 Misc : initial cal
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 14:00:16 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
3 tc alpha-BHC	30.916	30.355 E6	1.8	97	0.00
4 tcm gamma-BHC (L)	28.206	28.307 E6	-0.4	99	0.00
5 tcm Heptachlor	27.944	27.557 E6	1.4	98	0.00
6 tcm Aldrin	24.759	24.655 E6	0.4	99	0.00
7 tc beta-BHC	11.483	11.154 E6	2.9	99	0.00
8 TC delta-BHC	27.198	27.170 E6	0.1	99	0.00
9 tc Heptachlor E	22.762	22.338 E6	1.9	98	0.00
10 tc alpha-Endosu	20.460	20.836 E6	-1.8	102	0.00
11 tc gamma-Chlord	21.924	22.312 E6	-1.8	102	0.00
12 tc alpha-Chlord	21.387	20.826 E6	2.6	98	0.00
13 tc 4,4'-DDE	21.781	21.296 E6	2.2	97	0.00
14 tcm Dieldrin	22.843	22.323 E6	2.3	96	0.00
15 tcm Endrin	20.719	20.006 E6	3.4	95	0.00
17 tc beta-Endosul	18.589	17.934 E6	3.5	96	0.00
18 tc 4,4'-DDD	17.994	18.204 E6	-1.2	103	0.00
19 tcm 4,4'-DDT	19.138	20.191 E6	-5.5	103	0.00
20 tc Endrin Aldeh	14.678	14.754 E6	-0.5	100	0.00
21 tc Endosulfan S	16.846	16.754 E6	0.5	100	0.00
22 tc Methoxychlor	9.313	9.354 E6	-0.4	99	0.00
24 tc Endrin Keton	19.363	19.624 E6	-1.3	101	0.00

Signal #2

3 tc alpha-BHC	118.675	124.742 E6	-5.1	103	0.00
4 tcm gamma-BHC (L)	105.076	112.406 E6	-7.0	105	0.00
5 tcm Heptachlor	100.362	107.691 E6	-7.3	105	0.00
6 tcm Aldrin	91.095	95.996 E6	-5.4	103	0.00
7 tc beta-BHC	45.130	46.802 E6	-3.7	104	0.00
8 tc delta-BHC	103.241	107.314 E6	-3.9	102	0.00
9 tc Heptachlor E	80.396	83.886 E6	-4.3	103	0.00

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey062.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 7:47 am
 Operator : M.PEDRO
 Sample : pest icv
 Misc : initial cal
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 14:00:16 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
10 tc alpha-Endosu	70.973	77.062 E6	-8.6	106	0.00
11 tc gamma-Chlord	82.026	88.038 E6	-7.3	107	0.00
12 tc alpha-Chlord	77.670	79.953 E6	-2.9	102	0.00
13 tc 4,4'-DDE	76.653	81.318 E6	-6.1	104	0.00
14 tcm Dieldrin	78.244	82.867 E6	-5.9	104	0.00
15 tcm Endrin	67.355	70.925 E6	-5.3	101	0.00
17 tc beta-Endosul	64.198	66.770 E6	-4.0	103	0.00
18 tc 4,4'-DDD	62.240	66.813 E6	-7.3	106	0.00
19 tcm 4,4'-DDT	65.507	73.501 E6	-12.2	110	0.00
20 tc Endrin Aldeh	49.048	52.288 E6	-6.6	105	0.00
21 tc Endosulfan S	57.148	60.068 E6	-5.1	104	0.00
22 tc Methoxychlor	29.053	31.243 E6	-7.5	106	0.00
24 tc Endrin Keton	62.732	67.113 E6	-7.0	105	0.00

Evaluate Continuing Calibration Report - Not Finds

1 S SURR1,Tetrac	20.181	0.000 E6	100.0#	0#	-9.44#
2 TC HEXACHLORO BENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
16 tc KEPONE	7.316	0.000 E6	100.0#	0#	-14.44#
23 tc FAMPHUR	13.568	0.000 E6	100.0#	0#	-16.26#
25 S SURR2,Decachlorobiphenyl	17.465	0.000 E6	100.0#	0#	-17.62#
26 L8C Toxaphene	398.866	0.000 E3	100.0#	0#	-14.80#
27 L8C Toxaphene {2}	355.770	0.000 E3	100.0#	0#	-14.89#
28 L8C Toxaphene {3}	673.043	0.000 E3	100.0#	0#	-15.50#
29 L8C Toxaphene {4}	818.490	0.000 E3	100.0#	0#	-16.35#
30 L8C Toxaphene {5}	665.615	0.000 E3	100.0#	0#	-16.54#
31 L9C Chlordane	797.278	0.000 E3	100.0#	0#	-11.60#
32 L9C Chlordane {2}	1.127	0.000 E6	100.0#	0#	-11.72#
33 L9C Chlordane {3}	1031.623	0.000 E3	100.0#	0#	-12.40#
34 L9C Chlordane {4}	2.767	0.000 E6	100.0#	0#	-13.28#

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey062.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 7:47 am
 Operator : M.PEDRO
 Sample : pest icv
 Misc : initial cal
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 14:00:16 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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System Monitoring Compounds

Target Compounds

3) tc alpha-BHC	10.44	10.40	607.1E6	2494.8E6	19.637	21.023
4) tcm gamma-BHC (L	10.97	10.97	566.1E6	2248.1E6	20.072	21.395
5) tcm Heptachlor	11.72	11.64	551.1E6	2153.8E6	19.723	21.460
6) tcm Aldrin	12.18	12.12	493.1E6	1919.9E6	19.916	21.076
7) tc beta-BHC	11.12	11.12	223.1E6	936.0E6	19.427	20.741
8) tc delta-BHC	11.40	11.56	543.4E6	2146.3E6	19.979	20.789
9) tc Heptachlor E	13.10	12.96	446.8E6	1677.7E6	19.628	20.868
0) tc alpha-Endosu	13.68	13.52	416.7E6	1541.2E6	20.367	21.716
1) tc gamma-Chlord	13.28	13.23	446.2E6	1760.8E6	20.354	21.466
2) tc alpha-Chlord	13.48	13.44	416.5E6	1599.1E6	19.475	20.588
3) tc 4,4'-DDE	13.58	13.68	851.9E6	3252.7E6	39.110	42.434
4) tcm Dieldrin	14.03	13.91	892.9E6	3314.7E6	39.090	42.363
5) tcm Endrin	14.38	14.35	800.2E6	2837.0E6	38.624	42.120
7) tc beta-Endosul	14.72	14.66	717.4E6	2670.8E6	38.591	41.602
8) tc 4,4'-DDD	14.45	14.50	728.2E6	2672.5E6	40.468	42.939
9) tcm 4,4'-DDT	14.87	14.96	807.7E6	2940.0E6	42.203	44.881
0) tc Endrin Aldeh	15.35	15.16	590.2E6	2091.5E6	40.208	42.643
1) tc Endosulfan S	15.99	15.57	670.2E6	2402.7E6	39.781	42.044
2) tc Methoxychlor	15.56	15.93	1870.7E6	6248.5E6	200.875	215.071
4) tc Endrin Keton	16.38	16.32	784.9E6	2684.5E6	40.538	42.794
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

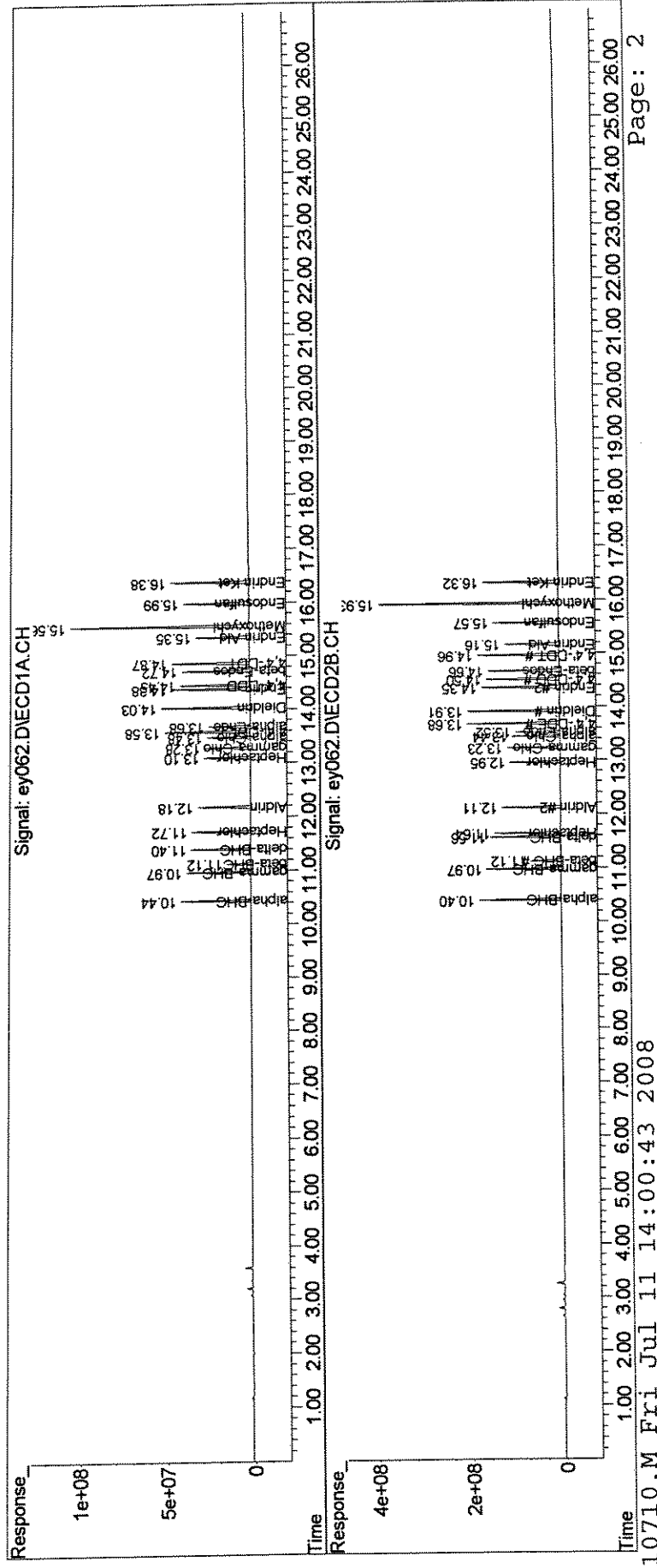
Handwritten note: up 7/11

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey062.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 7:47 am
 Operator : M.PEDRO
 Sample : pest icv
 Misc : initial cal
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 14:00:16 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey063.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 8:22 am
 Operator : M.PEDRO
 Sample : tox icv
 Misc : initial cal
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 14:01:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
26 L8C Toxaphene	398.866	412.850 E3	-3.5	107	0.00
27 L8C Toxaphene {2}	355.770	335.533 E3	5.7	107	0.00
28 L8C Toxaphene {3}	673.043	686.981 E3	-2.1	107	0.00
29 L8C Toxaphene {4}	818.490	777.889 E3	5.0	100	0.00
30 L8C Toxaphene {5}	665.615	682.023 E3	-2.5	107	0.00

Signal #2

26 L8C Toxaphene	1.935	2.036 E6	-5.2	113	0.00
27 L8C Toxaphene {2}	902.165	969.151 E3	-7.4	113	0.00
28 L8C Toxaphene {3}	1.869	1.996 E6	-6.8	113	0.00
29 L8C Toxaphene {4}	1.926	2.059 E6	-6.9	114	0.00
30 L8C Toxaphene {5}	2.256	2.438 E6	-8.1	114	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1, Tetrac	20.181	0.000 E6	100.0#	0#	-9.44#
2 TC HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
3 tc alpha-BHC	30.916	0.000 E6	100.0#	0#	-10.44#
4 tcm gamma-BHC (L	28.206	0.000 E6	100.0#	0#	-10.97#
5 tcm Heptachlor	27.944	0.000 E6	100.0#	0#	-11.73#
6 tcm Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#
7 tc beta-BHC	11.483	0.000 E6	100.0#	0#	-11.12#
8 TC delta-BHC	27.198	0.000 E6	100.0#	0#	-11.40#
9 tc Heptachlor E	22.762	0.000 E6	100.0#	0#	-13.10#
10 tc alpha-Endosu	20.460	0.000 E6	100.0#	0#	-13.68#
11 tc gamma-Chlord	21.924	0.000 E6	100.0#	0#	-13.28#
12 tc alpha-Chlord	21.387	0.000 E6	100.0#	0#	-13.48#
13 tc 4,4'-DDE	21.781	0.000 E6	100.0#	0#	-13.58#
14 tcm Dieldrin	22.843	0.000 E6	100.0#	0#	-14.03#

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey063.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 8:22 am
 Operator : M.PEDRO
 Sample : tox icv
 Misc : initial cal
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 14:01:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

6) L8C Toxaphene	14.80	14.78	206.4E6	1018.2E6	517.530	526.264
7) L8C Toxaphene {2}	14.89	15.06	167.8E6	484.6E6	471.560	537.126
8) L8C Toxaphene {3}	15.50	15.17	343.5E6	997.8E6	510.355	533.783
9) L8C Toxaphene {4}	16.35	16.45	388.9E6	1029.5E6	475.198	534.495
0) L8C Toxaphene {5}	16.54	16.69	341.0E6	1218.9E6	512.325	540.206
Sum Toxaphene			1447.6E6	4749.1E6	2486.968	2671.874
verage Toxaphene					497.394	534.375
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey064.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 8:58 am
 Operator : M.PEDRO
 Sample : chlor icv
 Misc : initial cal
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 14:01:55 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
31 L9C Chlordane	797.278	820.303 E3	-2.9	104	0.00
32 L9C Chlordane {2}	1.127	1.172 E6	-4.0	104	0.00
33 L9C Chlordane {3}	1031.623	1067.503 E3	-3.5	104	0.00
34 L9C Chlordane {4}	2.767	2.904 E6	-5.0	104	0.00
35 L9C Chlordane {5}	934.381	931.627 E3	0.3	103	0.00

Signal #2

31 L9C Chlordane	3.233	3.427 E6	-6.0	105	0.00
32 L9C Chlordane {2}	4.500	4.829 E6	-7.3	105	0.00
33 L9C Chlordane {3}	3.580	3.799 E6	-6.1	105	0.00
34 L9C Chlordane {4}	10.021	10.792 E6	-7.7	105	0.00
35 L9C Chlordane {5}	3.527	3.634 E6	-3.0	105	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1, Tetrac	20.181	0.000 E6	100.0#	0#	-9.44#
2 TC HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
3 tc alpha-BHC	30.916	0.000 E6	100.0#	0#	-10.44#
4 tcm gamma-BHC (L	28.206	0.000 E6	100.0#	0#	-10.97#
5 tcm Heptachlor	27.944	0.000 E6	100.0#	0#	-11.73#
6 tcm Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#
7 tc beta-BHC	11.483	0.000 E6	100.0#	0#	-11.12#
8 TC delta-BHC	27.198	0.000 E6	100.0#	0#	-11.40#
9 tc Heptachlor E	22.762	0.000 E6	100.0#	0#	-13.10#
10 tc alpha-Endosu	20.460	0.000 E6	100.0#	0#	-13.68#
11 tc gamma-Chlord	21.924	0.000 E6	100.0#	0#	-13.28#
12 tc alpha-Chlord	21.387	0.000 E6	100.0#	0#	-13.48#
13 tc 4,4'-DDE	21.781	0.000 E6	100.0#	0#	-13.58#
14 tcm Dieldrin	22.843	0.000 E6	100.0#	0#	-14.03#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey064.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 8:58 am
 Operator : M.PEDRO
 Sample : chlor icv
 Misc : initial cal
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 14:01:55 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

System Monitoring Compounds						
Target Compounds			0	0	N.D.	N.D.
Sum Toxaphene					0.000	0.000
verage Toxaphene						
1) L9C Chlordane	11.60	11.42	82030317	342.7E6	102.888	105.999
2) L9C Chlordane {2}	11.72	11.64	117.2E6	482.9E6	104.032	107.322
3) L9C Chlordane {3}	12.40	12.35	106.8E6	379.9E6	103.478	106.122
4) L9C Chlordane {4}	13.28	13.23	290.4E6	1079.2E6	104.970	107.694
5) L9C Chlordane {5}	14.61	14.73	93162722	363.4E6	99.705	103.010
Sum Chlordane			689.5E6	2648.1E6	515.073	530.147
verage Chlordane					103.015	106.029

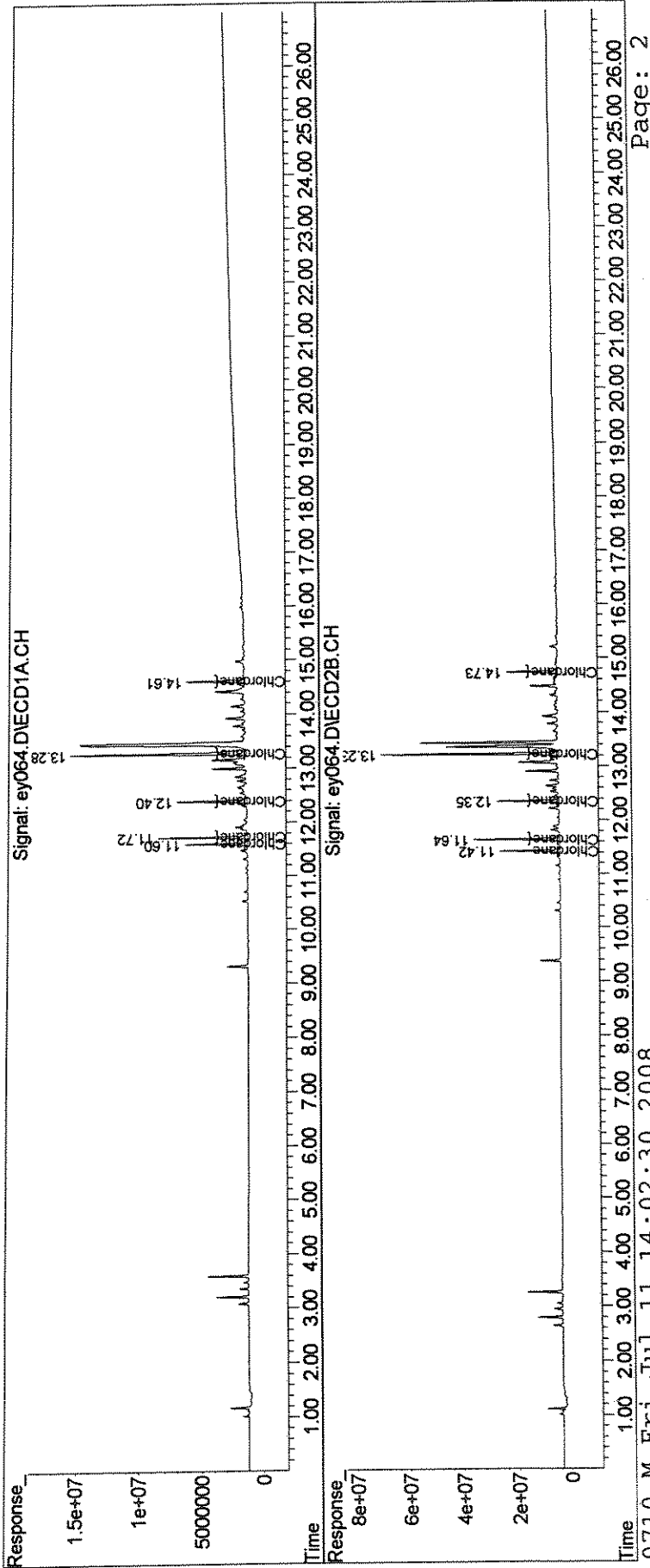
*MP
7/11*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey064.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 8:58 am
 Operator : M.PEDRO
 Sample : chlor icv
 Misc : initial cal
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 14:01:55 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	STX-CLP	ID: 0.32 (mm)	Initial Calibration Date(s):	06/2/2008
EPA Sample No. (PEM):	PEM		Date Analyzed:	06/26/2008
LAB Sample ID. (PEM):	PEM		Time Analyzed:	8:27
4,4'-DDT % Breakdown (1):	1.3%		Endrin % Breakdown (1):	4.1%
Combined % Breakdown (1):	5.5%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	STX-CLPII	ID: 0.32 (mm)	Initial Calibration Date(s):	06/2/2008
EPA Sample No. (PEM):	PEM	Date Analyzed:	06/26/2008	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	8:27	
4,4'-DDT % Breakdown (1):	2.4%	Endrin % Breakdown (1):	4.1%	
Combined % Breakdown (1):	6.5%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex871.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 8:27 am
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:06:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

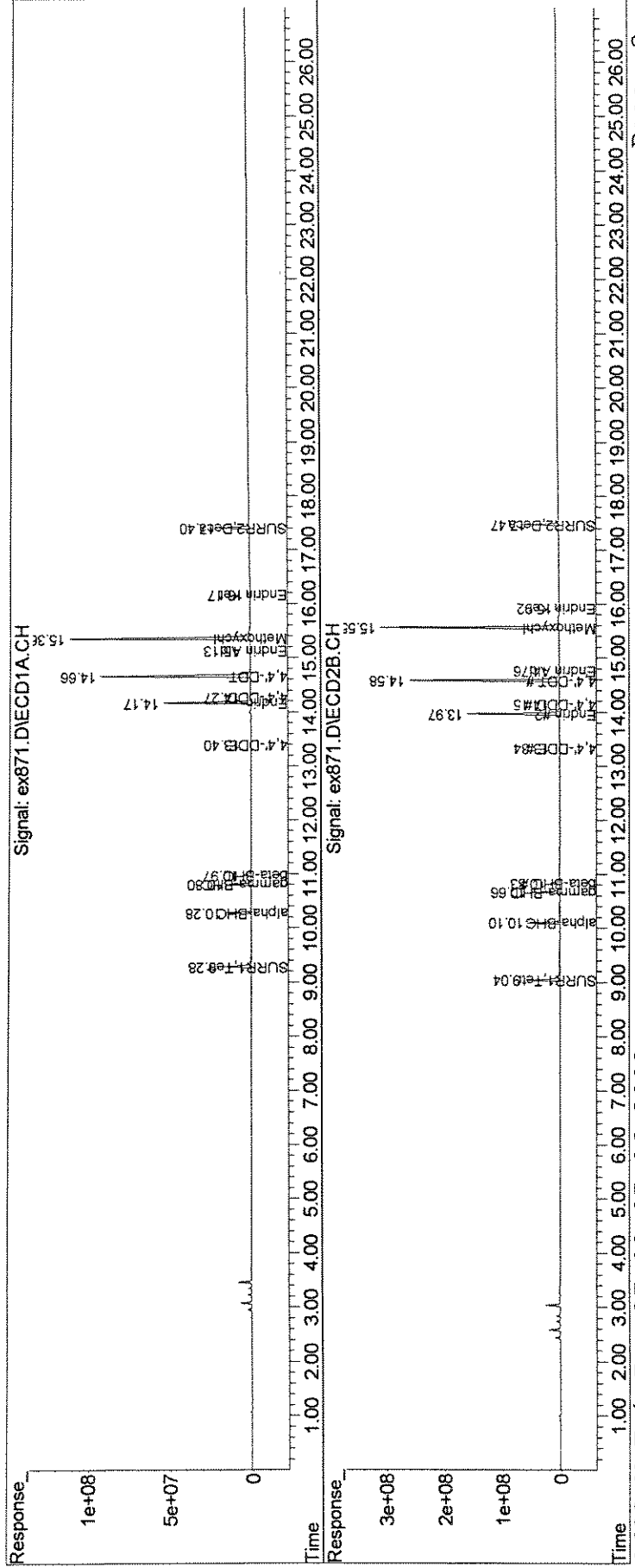
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	370.6E6	1219.0E6	19.678	19.978
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.68%#	19.98%#
25) S SURR2,Decachloro	17.41	17.47	343.6E6	854.1E6	20.114	19.568
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.11%#	19.57%#
Target Compounds						
3) tc alpha-BHC	10.28	10.10	272.2E6	911.9E6	9.065	9.862
4) tcm gamma-BHC (L	10.80	10.66	246.4E6	806.4E6	8.965	9.816
7) tc beta-BHC	10.97	10.83	112.1E6	353.0E6	9.714	9.895
13) tc 4,4'-DDE	13.40	13.34	6694696	34619224	0.298	0.531 #
15) tcm Endrin	14.17	13.97	981.1E6	2685.8E6	47.035	47.351
18) tc 4,4'-DDD	14.27	14.15	17763043	84231938	0.944m	1.631m#
19) tcm 4,4'-DDT	14.66	14.58	1840.7E6	4833.4E6	91.891	88.202
20) tc Endrin Aldeh	15.13	14.76	15540290	41434907	1.052	1.030m
22) tc Methoxychlor	15.36	15.56	2213.9E6	5514.3E6	224.307	228.662
24) tc Endrin Keton	16.17	15.92	26888920	72942960	1.288	1.347
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex871.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 8:27 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 09:06:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



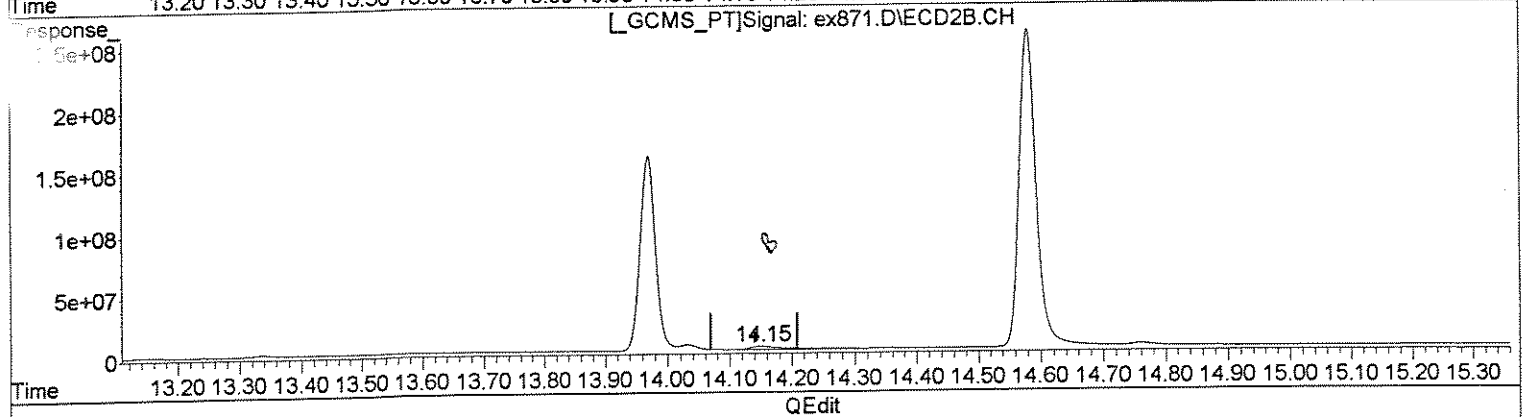
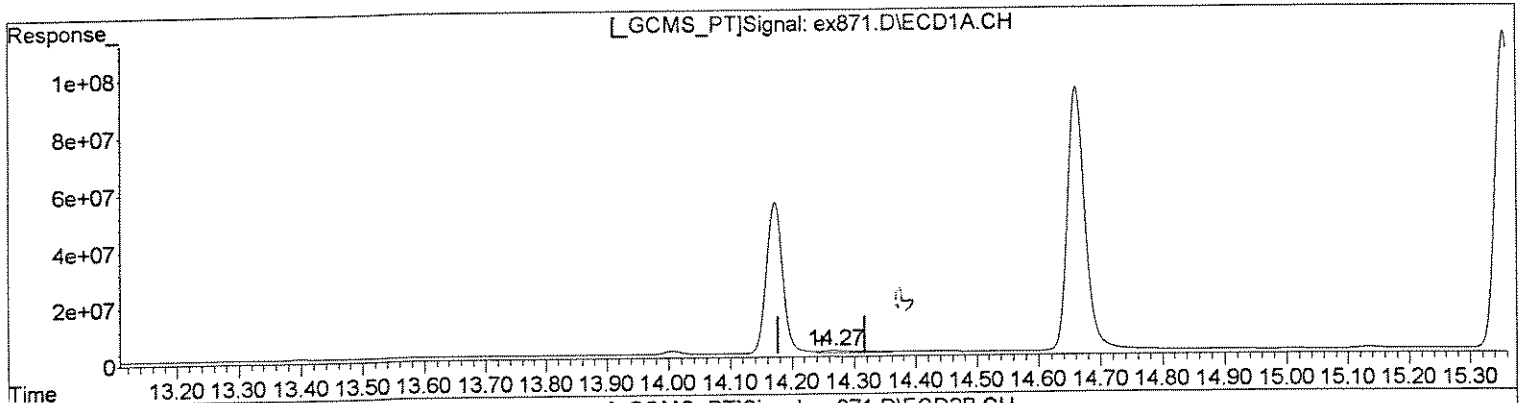
01422

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex871.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 8:27 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:30:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)
14.27min 1.862ug/l
response 35021186

Real Time

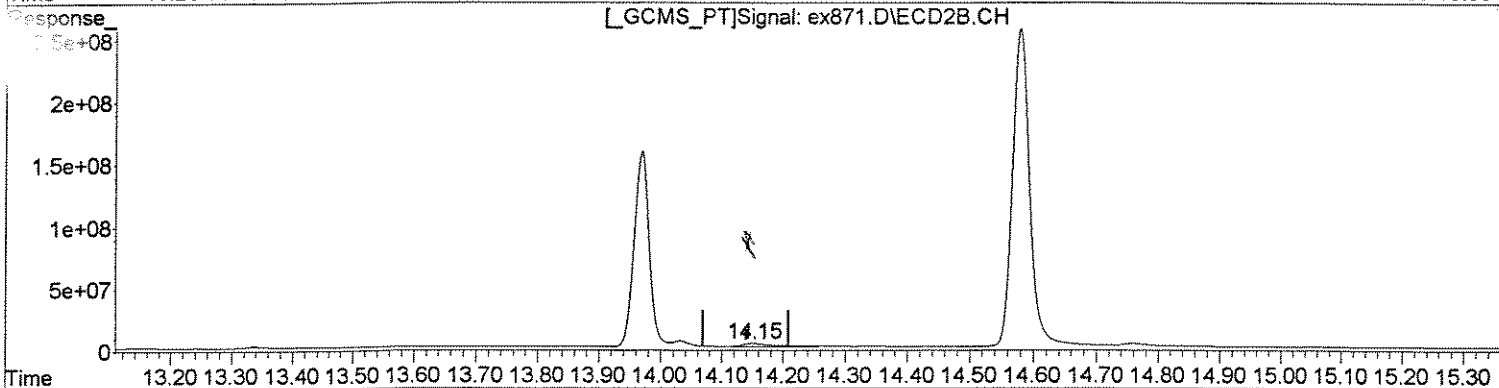
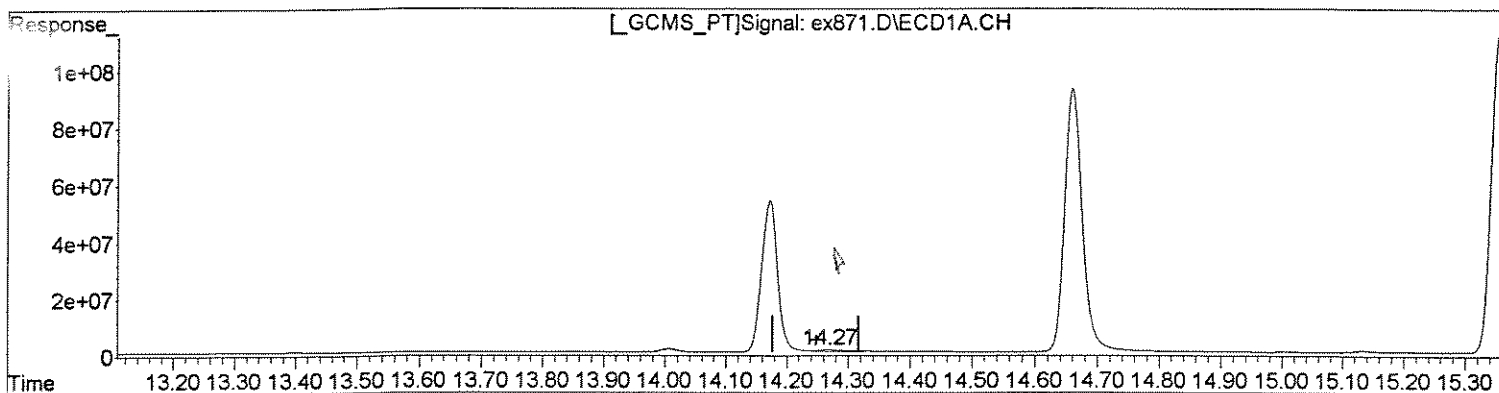
(18) 4,4'-DDD #2 (tc)
14.15min 2.495ug/l
response 128807531

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex871.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 8:27 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:30:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)
14.27min 0.944ug/l m
response 17763043

(18) 4,4'-DDD #2 (tc)
14.15min 1.631ug/l m
response 84231938

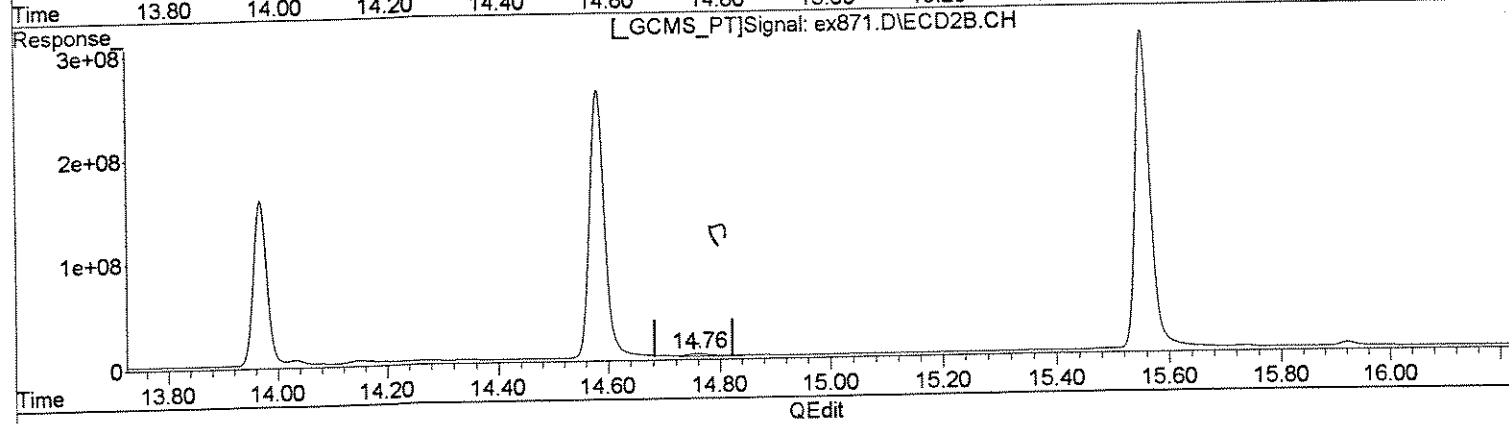
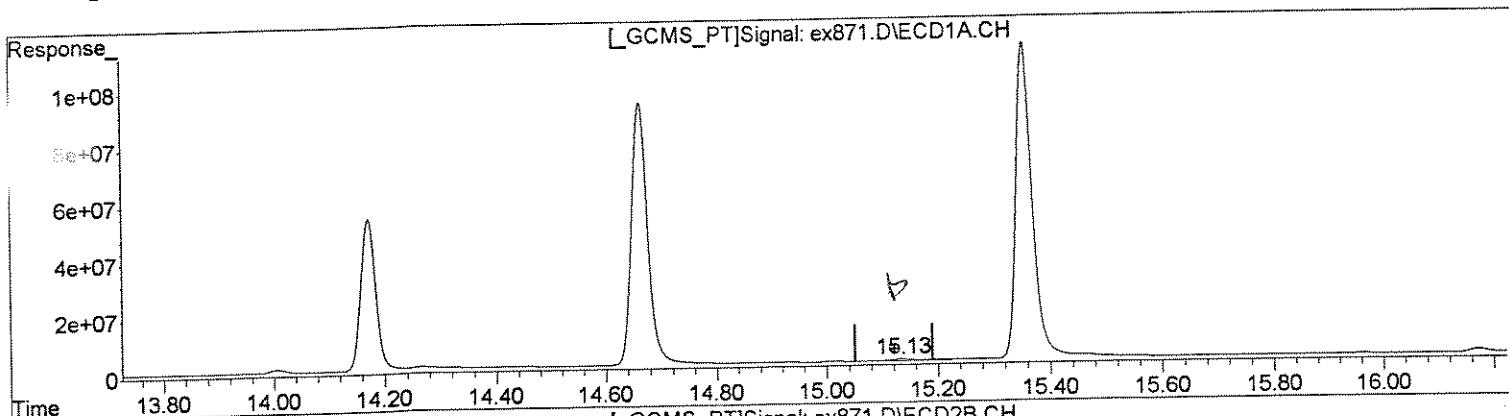
mw/
0/37
mw/
4/2

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex871.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 8:27 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:30:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(20) Endrin Aldeh (tc)
15.13min 1.052ug/l
response 15540290

(20) Endrin Aldeh #2 (tc)
14.76min 2.075ug/l
response 83478641

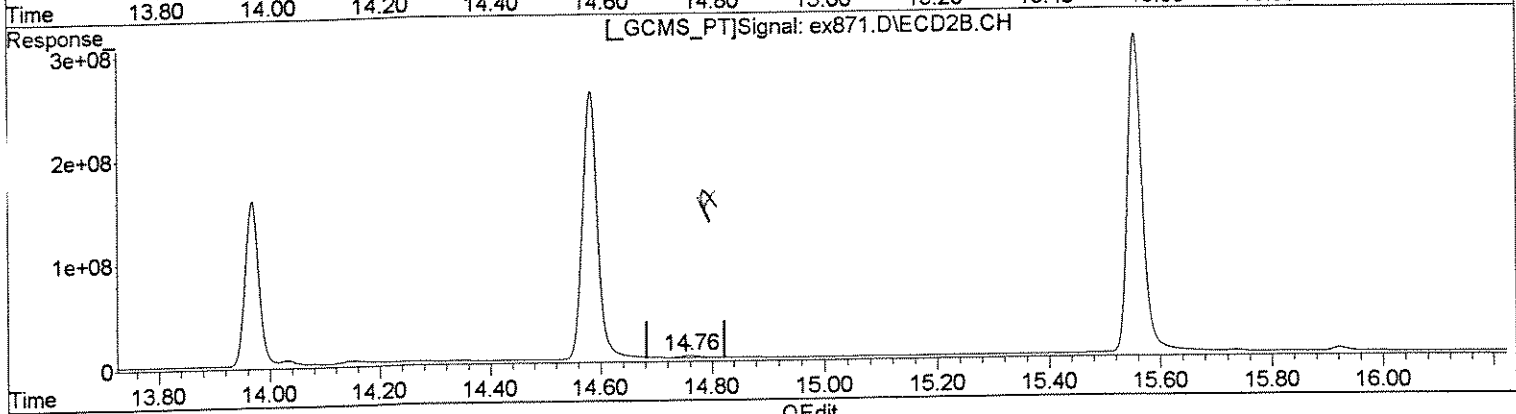
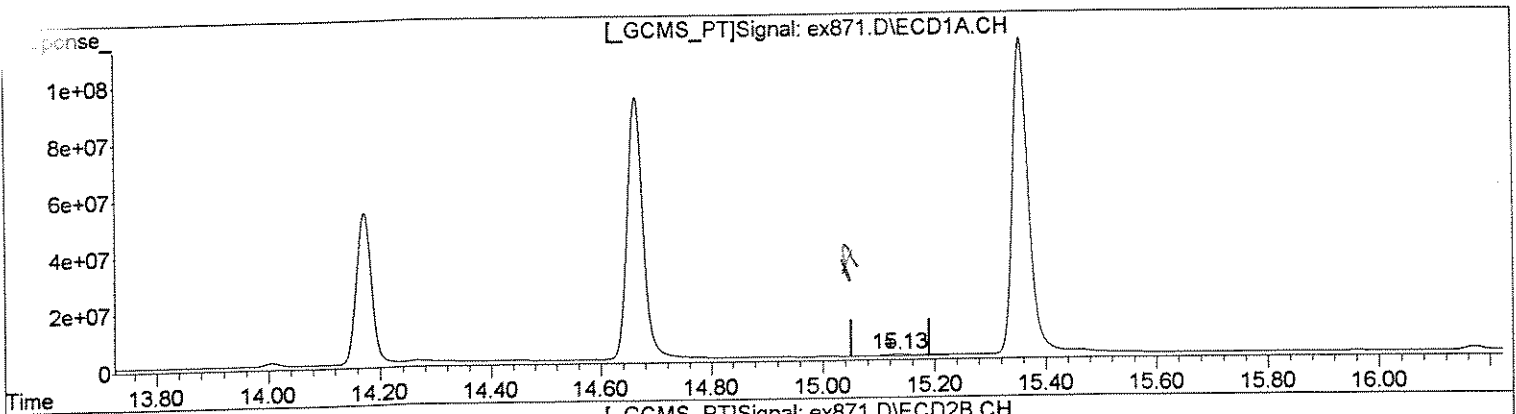
Blue

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex871.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 8:27 am
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:30:34 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(20) Endrin Aldeh (tc)
 15.13min 1.052ug/l
 response 15540290

(20) Endrin Aldeh #2 (tc)
 14.76min 1.030ug/l m
 response 41434907

Handwritten: MJP 6/27

Handwritten: MW 4/7

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	STX-CLP	ID: 0.32 (mm)	Initial Calibration Date(s):	06/2/2008
EPA Sample No. (PEM):	PEM		Date Analyzed:	06/30/2008
LAB Sample ID. (PEM):	PEM		Time Analyzed:	8:04
4,4'-DDT % Breakdown (1):	0.7%		Endrin % Breakdown (1):	2.7%
Combined % Breakdown (1):	3.4%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

01427

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	STX-CLPII	ID: 0.32 (mm)	Initial Calibration Date(s):	06/2/2008
EPA Sample No. (PEM):	PEM	Date Analyzed:	06/30/2008	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	8:04	
4,4'-DDT % Breakdown (1):	1.6%	Endrin % Breakdown (1):	2.5%	
Combined % Breakdown (1):	4.1%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex905.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:04 am
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:24:33 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.05	367.0E6	1193.7E6	19.488	19.564
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.49%#	19.56%#
5) S SURR2,Decachloro	17.41	17.47	343.3E6	824.3E6	20.101	18.885
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.10%#	18.89%#
Target Compounds						
3) tc alpha-BHC	10.28	10.10	266.4E6	894.7E6	8.869	9.676
4) tcm gamma-BHC (L	10.80	10.66	241.6E6	782.9E6	8.790	9.530
7) tc beta-BHC	10.98	10.83	113.8E6	382.0E6	9.857	10.708
3) tc 4,4'-DDE	13.40	13.34	12728612	49099024	0.566	0.753 #
5) tcm Endrin	14.17	13.96	1003.9E6	2581.3E6	48.128	45.508
8) tc 4,4'-DDD	0.00	14.15	0	27820541	N.D.	0.539m#
tcm 4,4'-DDT	14.66	14.58	1844.7E6	4611.9E6	92.086	84.160
tc Endrin Aldehy	15.13	14.76	7804969	21357844	0.528	0.531m
2) tc Methoxychlor	15.36	15.55	2275.4E6	5437.0E6	230.544	225.455m
4) tc Endrin Keton	16.17	15.92	19822002	43804536	0.949	0.809
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

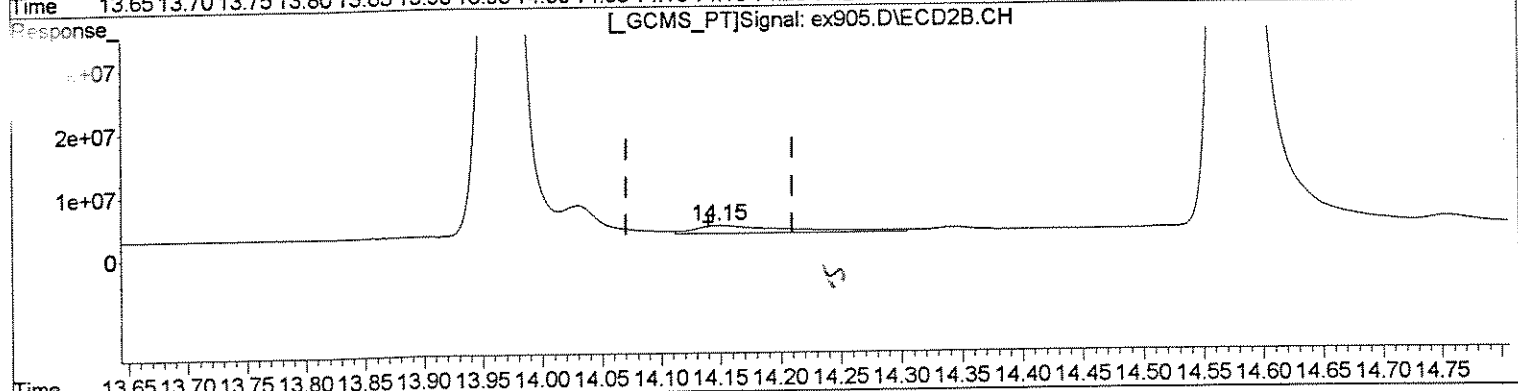
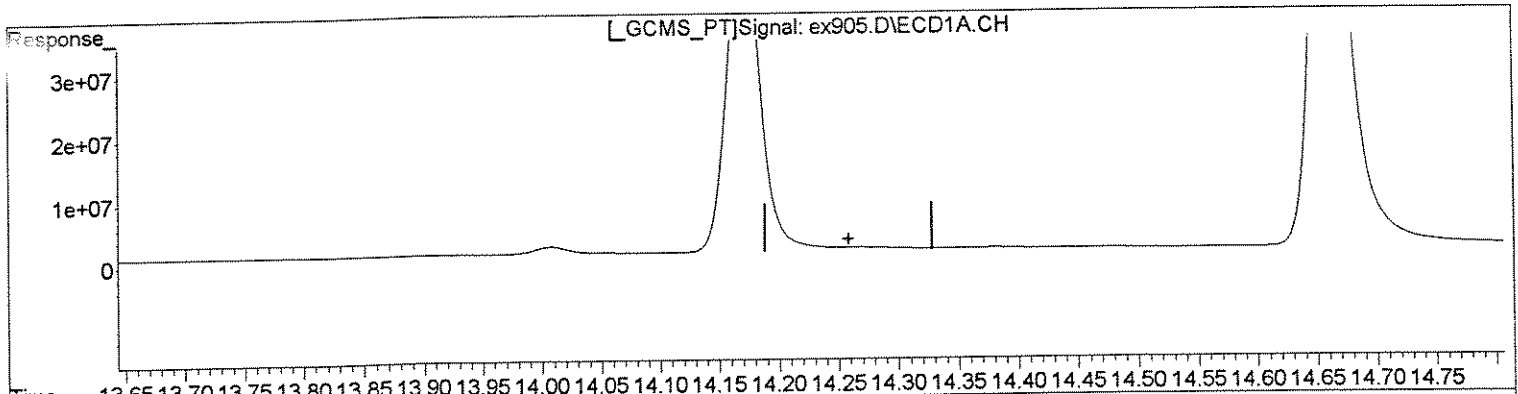
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:04:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)
0.00min 0.000ug/l
response 0

(18) 4,4'-DDD #2 (tc)
14.15min 1.405ug/l
response 72564163

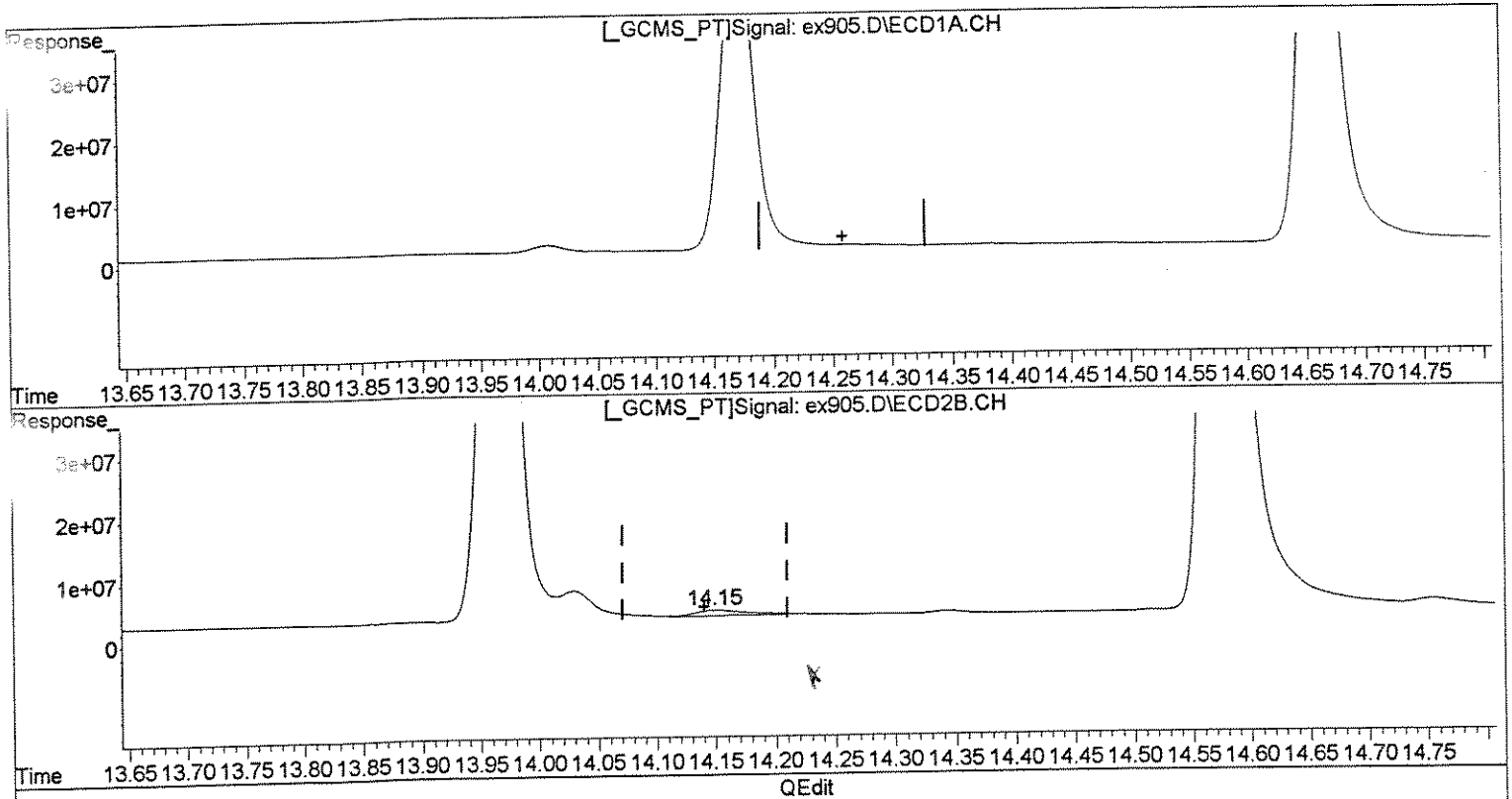
base

Quantitation Report (Qedit)

Data Path : J:\ACQUADATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:04:34 2008
Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) 4,4'-DDD (tc)
0.00min 0.000ug/l
response 0

(18) 4,4'-DDD #2 (tc)
14.15min 0.539ug/l m
response 27820541

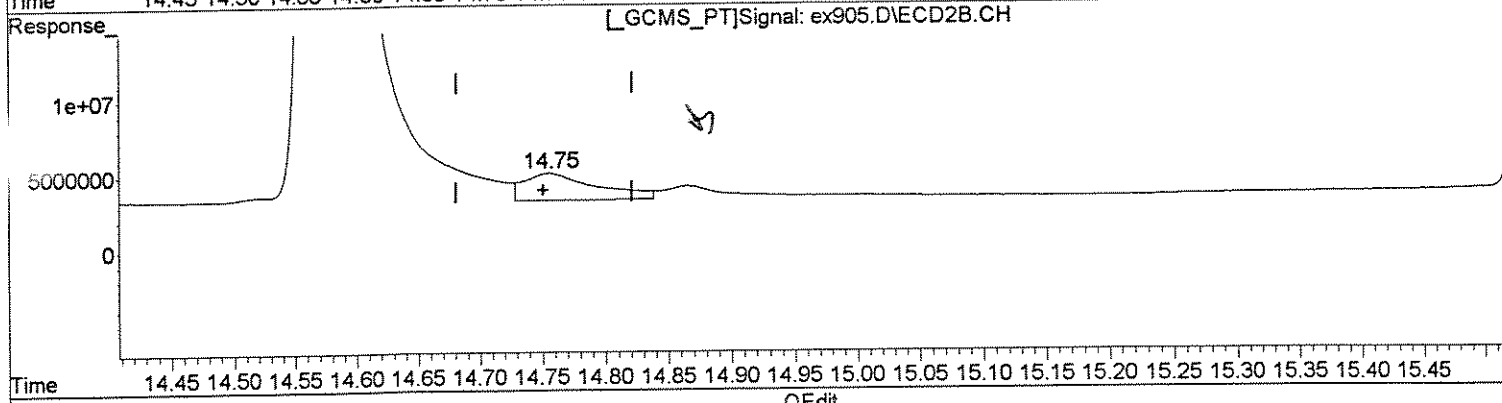
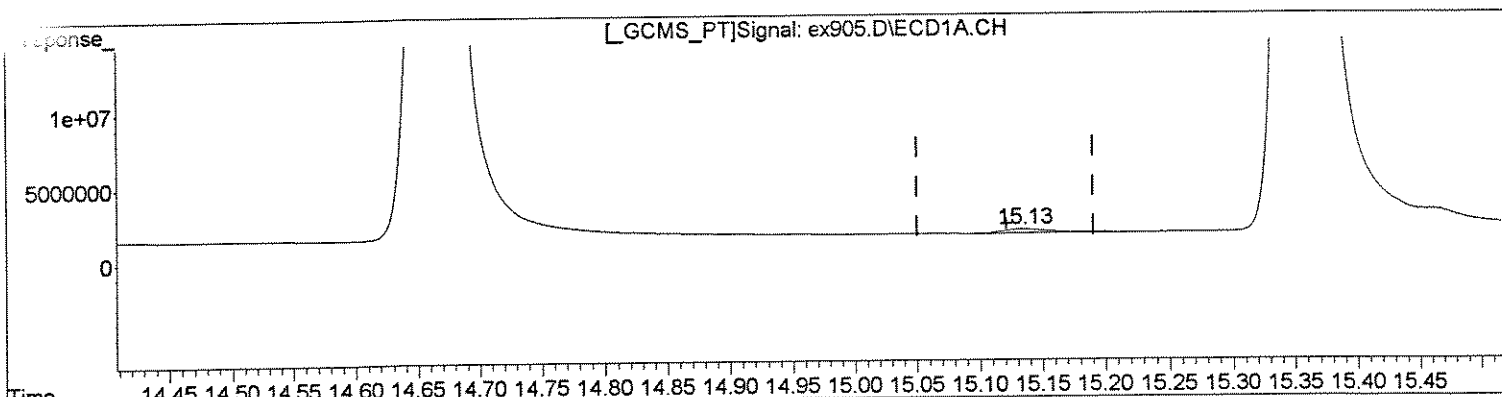
mp
7/1
mw
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:04:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(20) Endrin Aldeh (tc)
15.13min 0.528ug/l
response 7804969

(20) Endrin Aldeh #2 (tc)
14.75min 1.773ug/l
response 71335180

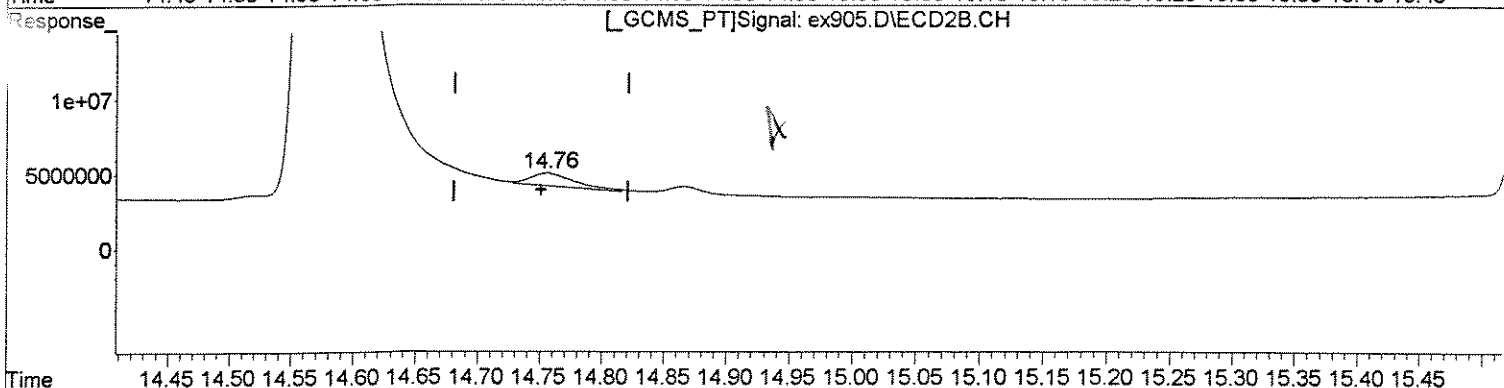
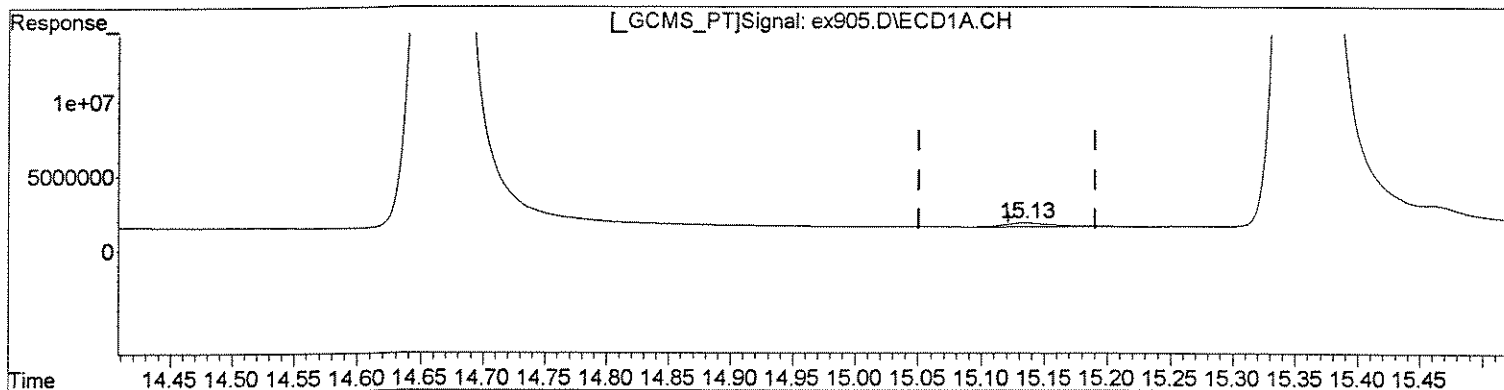
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:04:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(20) Endrin Aldeh (tc)
15.13min 0.528ug/l
response 7804969

(20) Endrin Aldeh #2 (tc)
14.76min 0.531ug/l m
response 21357844

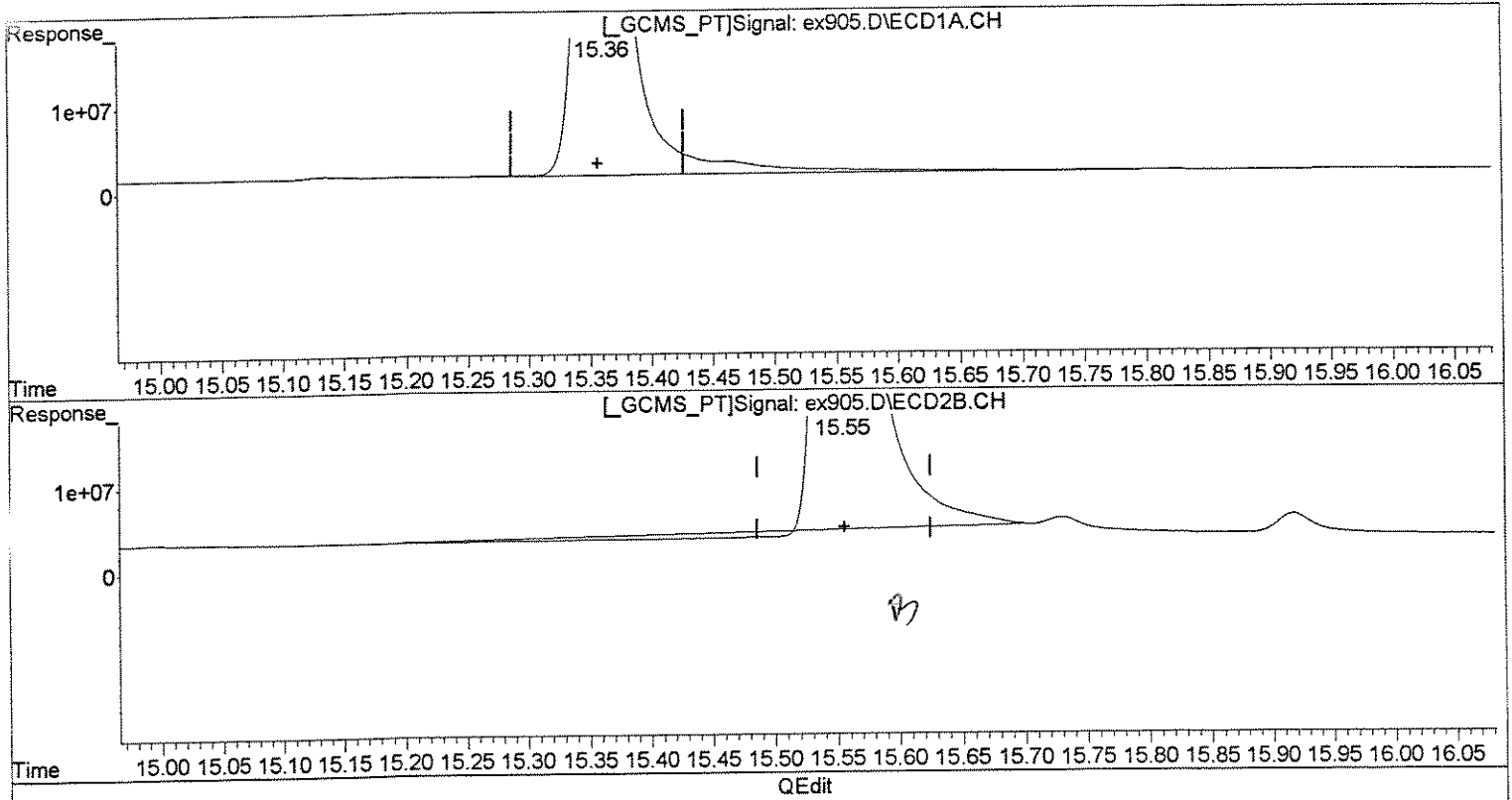
Handwritten notes:
log 7/1
mw 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:04:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)
15.36min 230.544ug/l
response 2275426483

(22) Methoxychlor #2 (tc)
15.55min 218.850ug/l
response 5277720213

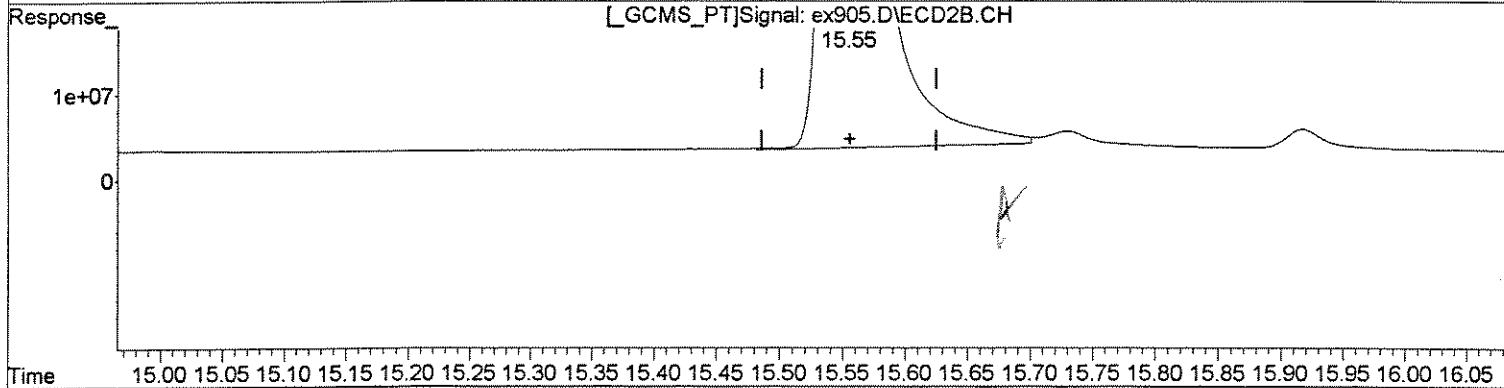
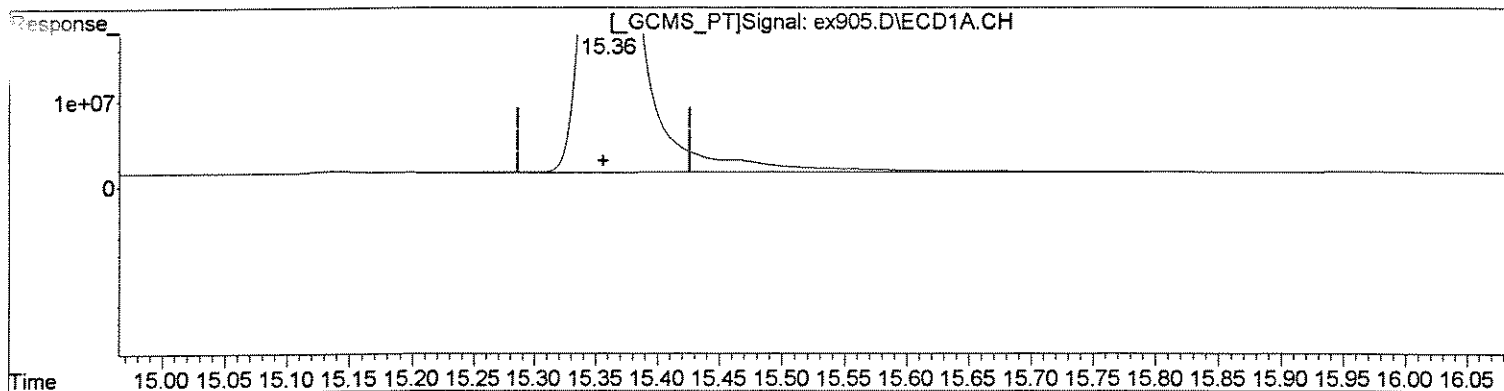
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:04:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(22) Methoxychlor (tc)
15.36min 230.544ug/l
response 2275426483

(22) Methoxychlor #2 (tc)
15.55min 225.455ug/l m
response 5437011775

Handwritten signatures and initials

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	STX-CLP	ID: 0.32 (mm)	Initial Calibration Date(s):	06/2/2008
EPA Sample No. (PEM):	PEM	Date Analyzed:	06/30/2008	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	23:44	
4,4'-DDT % Breakdown (1):	1.4%	Endrin % Breakdown (1):	3.6%	
Combined % Breakdown (1):	5.0%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	STX-CLPII	ID: 0.32 (mm)	Initial Calibration Date(s):	06/2/2008
EPA Sample No. (PEM):	PEM	Date Analyzed:	06/30/2008	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	23:44	
4,4'-DDT % Breakdown (1):	2.5%	Endrin % Breakdown (1):	3.0%	
Combined % Breakdown (1):	5.5%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex931.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 11:44 pm
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:23:08 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

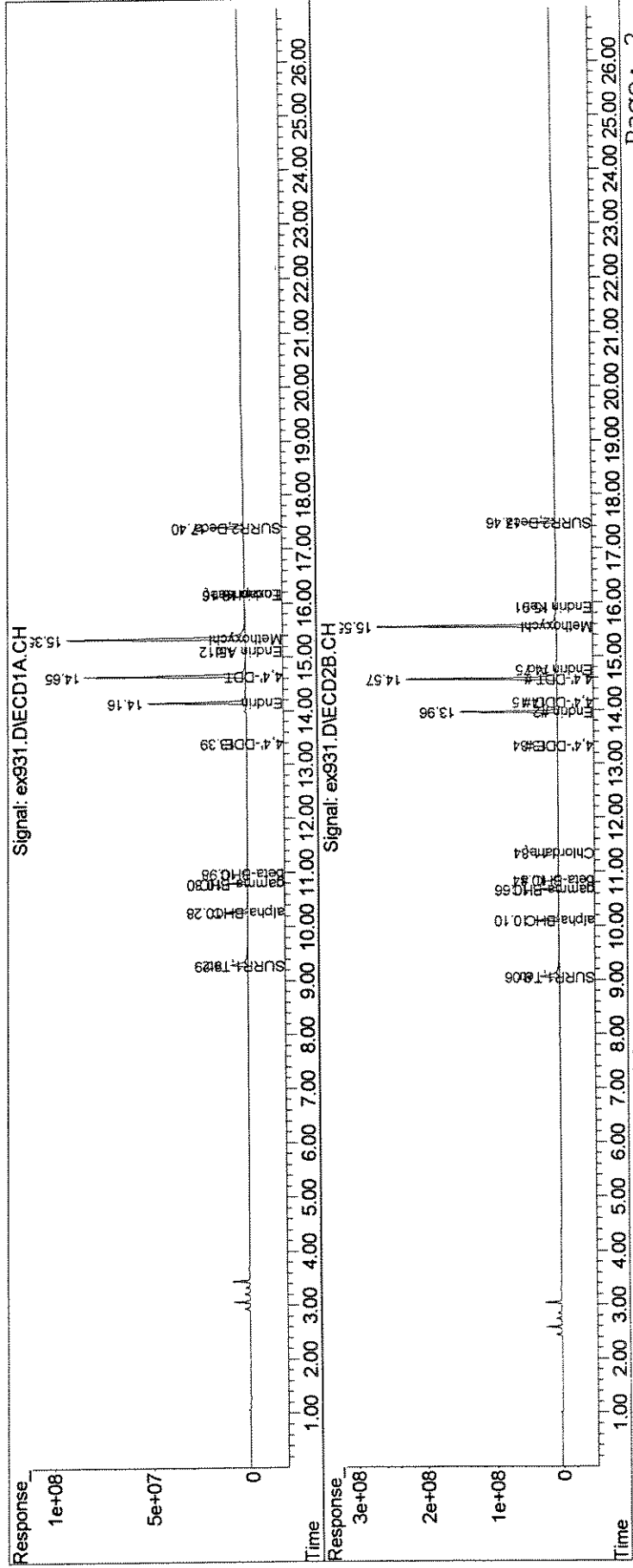
System Monitoring Compounds						
1) S SURR1,Tetrac	9.30	9.06	371.6E6	1185.1E6	19.731	19.423
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.73%#	19.42%#
25) S SURR2,Decachloro	17.40	17.46	353.8E6	864.9E6	20.711m	19.814m
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.71%#	19.81%#
Target Compounds						
3) tc alpha-BHC	10.28	10.10	265.9E6	893.0E6	8.854	9.658
4) tcm gamma-BHC (L)	10.80	10.66	240.1E6	779.9E6	8.734	9.493
7) tc beta-BHC	10.98	10.84	117.5E6	392.6E6	10.177	11.007
13) tc 4,4'-DDE	13.40	13.34	26122353	89118947	1.162	1.367
15) tcm Endrin	14.16	13.96	1027.8E6	2622.3E6	49.270	46.232
18) tc 4,4'-DDD	0.00	14.15	0	30053094	N.D.	0.582m#
19) tcm 4,4'-DDT	14.65	14.57	1899.8E6	4733.9E6	94.839	86.386
20) tc Endrin Aldeh	15.12	14.75	9600024	33066247	0.650m	0.822m#
22) tc Methoxychlor	15.35	15.55	2384.0E6	5560.5E6	241.550	230.575m
24) tc Endrin Keton	16.16	15.91	29251412	48350360	1.401	0.893 #
29) L8C Toxaphene{4}	16.16	0.00	29251412	0	32.908	N.D. #
Sum Toxaphene			29251412	0	32.908	N.D.
Average Toxaphene					32.908	0.000
<hr/>						
32) L9C Chlordane{2}	0.00	11.34	0	1407293	N.D.	0.411 #
Sum Chlordane			0	1407293	N.D.	0.411
Average Chlordane					0.000	0.411

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex931.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 11:44 pm
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:23:08 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

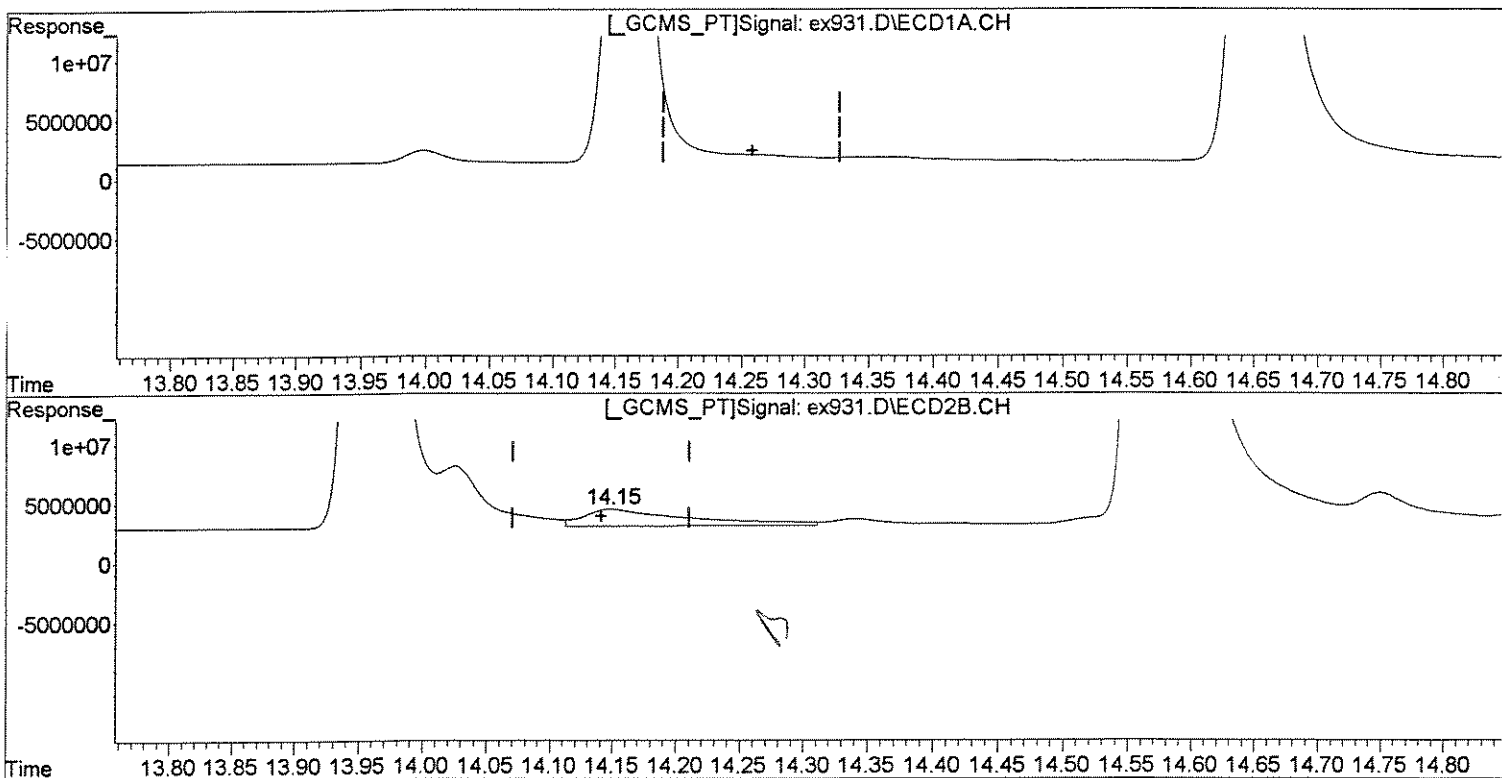


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 11:44 pm
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)
0.00min 0.000ug/l
response 0

(18) 4,4'-DDD #2 (tc)
14.15min 1.600ug/l
response 82610594

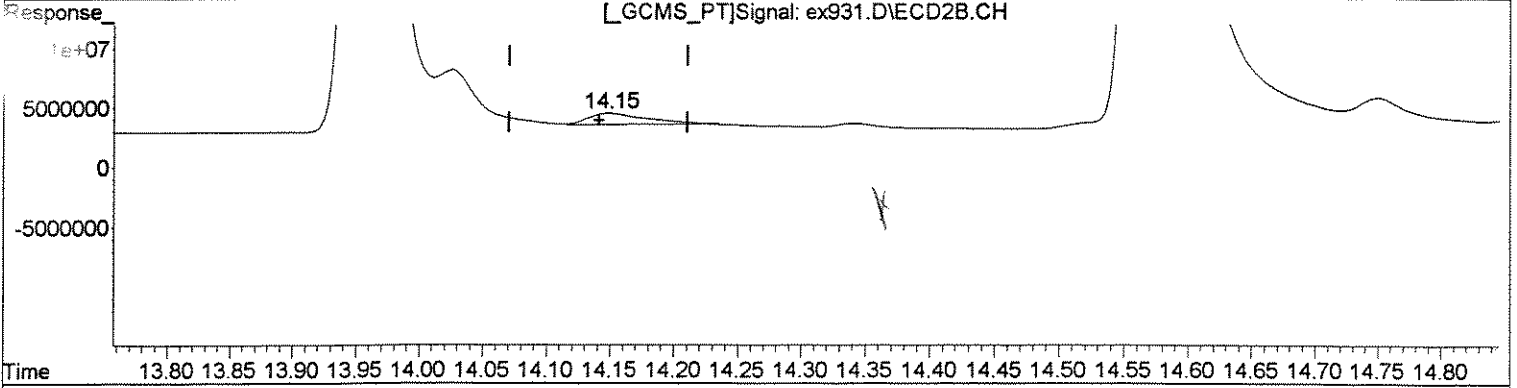
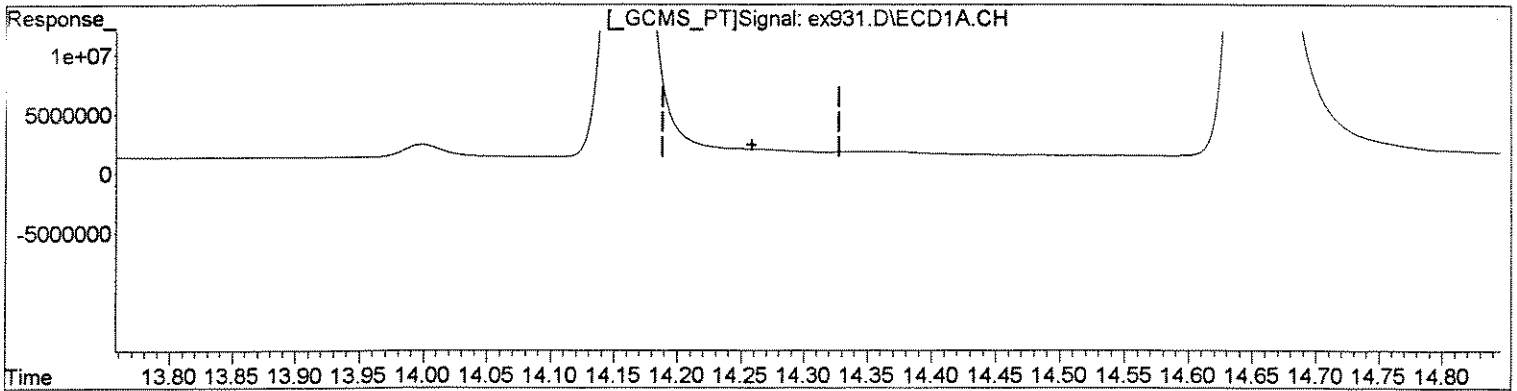
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 11:44 pm
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)
0.00min 0.000ug/l
response 0

(18) 4,4'-DDD #2 (tc)
14.15min 0.582ug/l m
response 30053094

MW
7/1

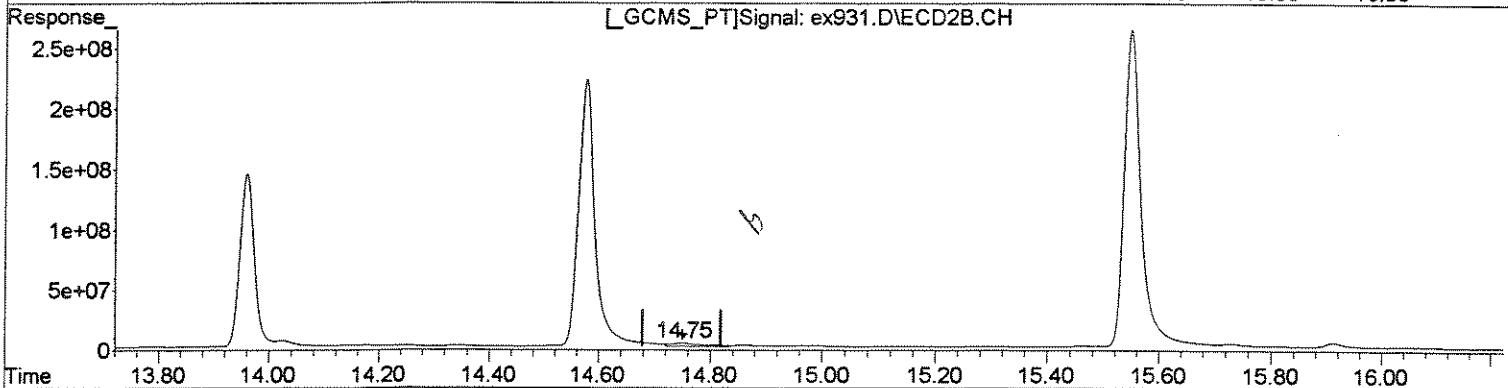
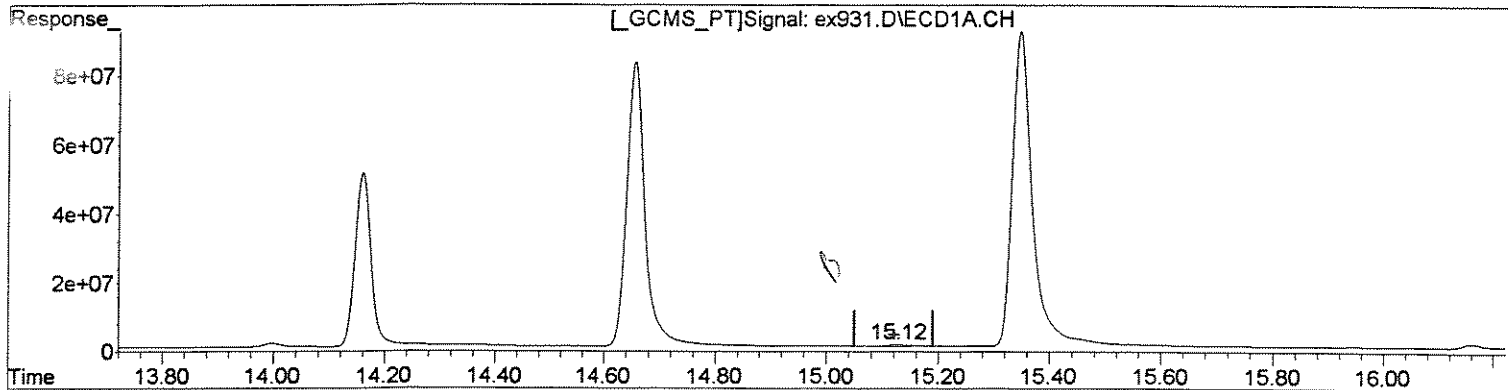
MW
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 11:44 pm
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(20) Endrin Aldeh (tc)
15.12min 1.039ug/l
response 15352890

(20) Endrin Aldeh #2 (tc)
14.75min 2.398ug/l
response 96484705

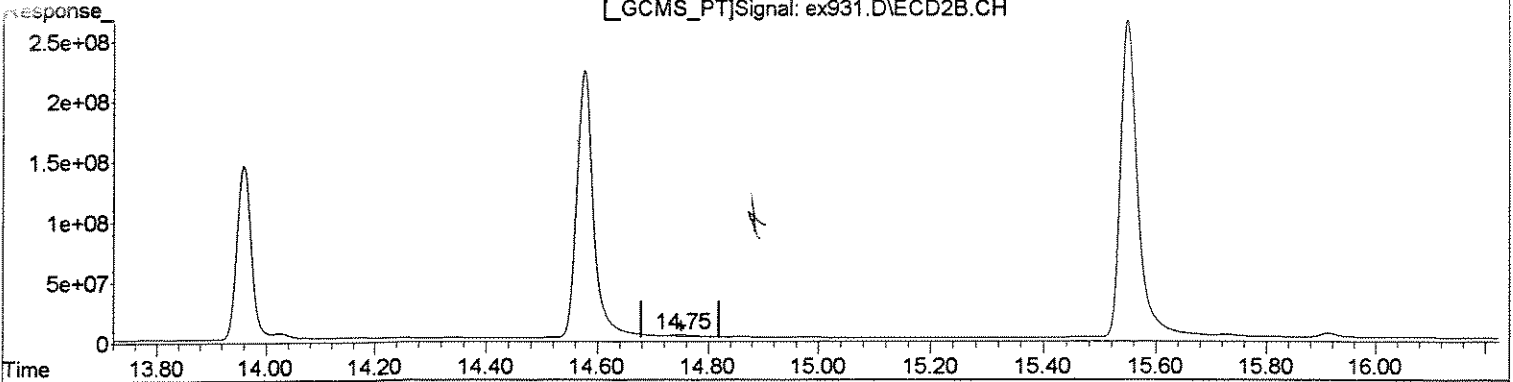
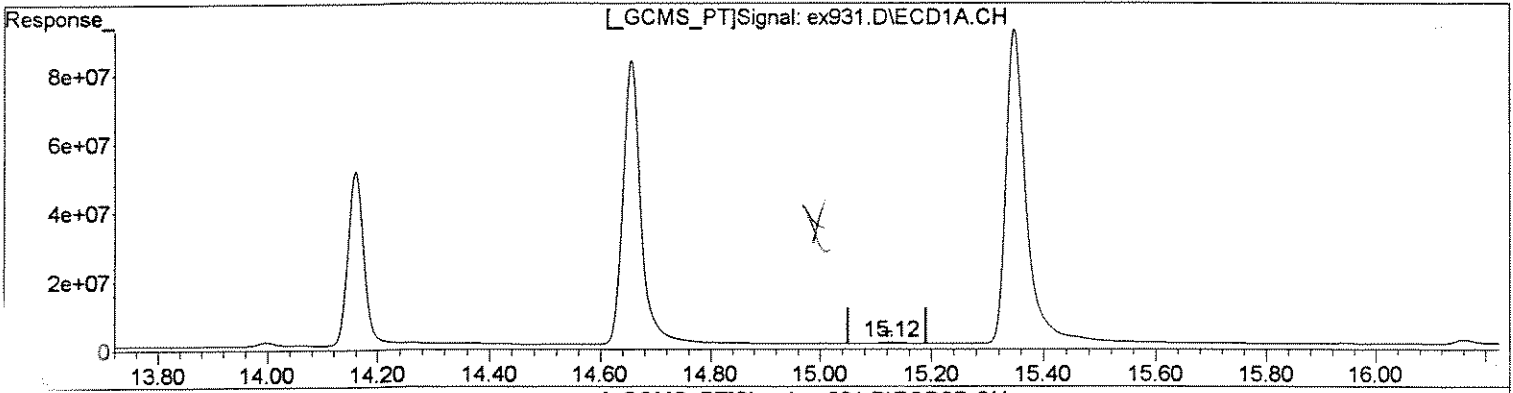
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 11:44 pm
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(20) Endrin Aldeh (tc)
15.12min 0.650ug/l m
response 9600024

(20) Endrin Aldeh #2 (tc)
14.75min 0.822ug/l m
response 33066247

Handwritten signature

Handwritten initials

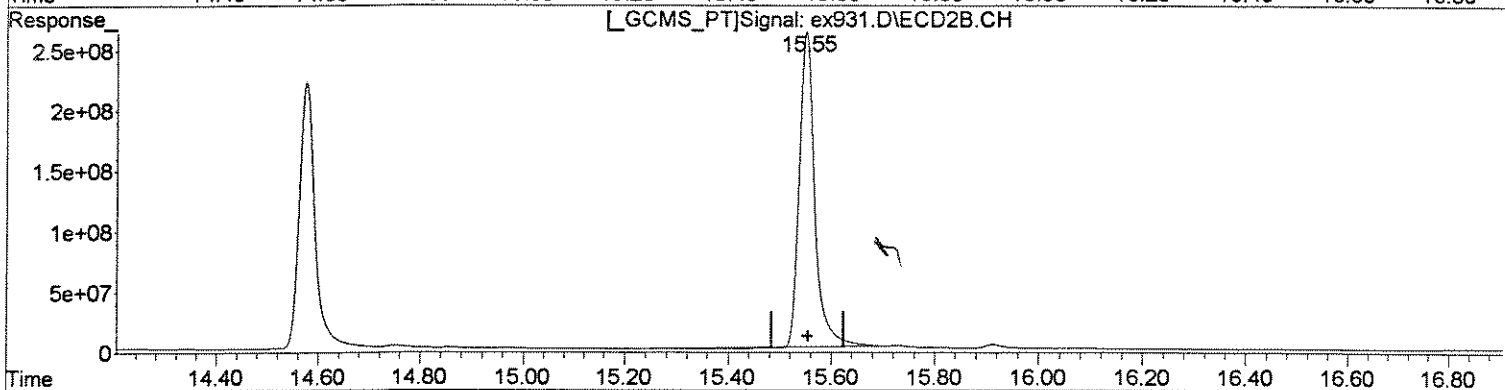
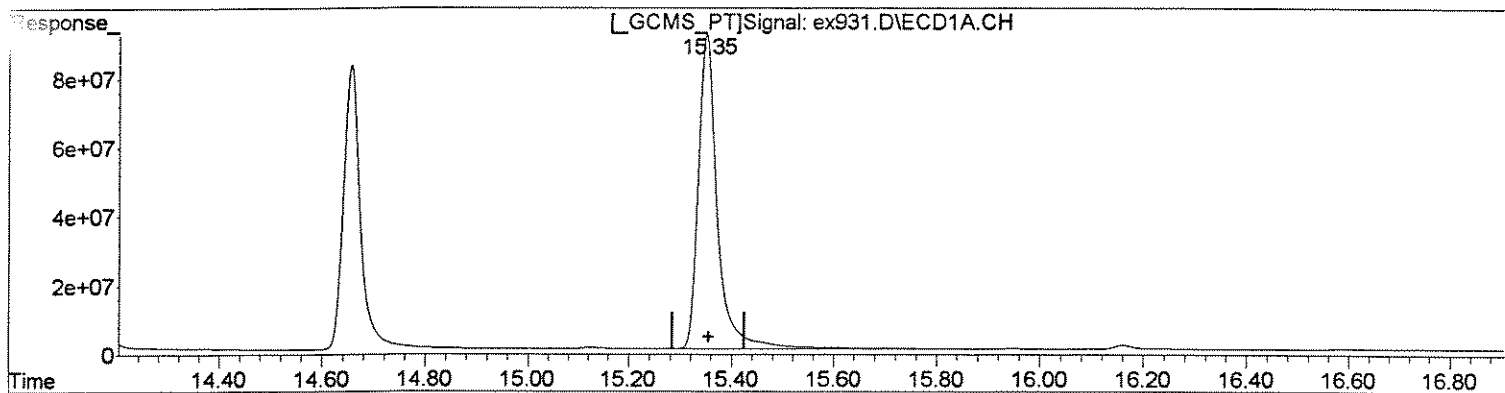
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 11:44 pm
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(22) Methoxychlor (tc)
15.35min 241.550ug/l
response 2384046269

(22) Methoxychlor #2 (tc)
15.55min 222.571ug/l
response 5367451274

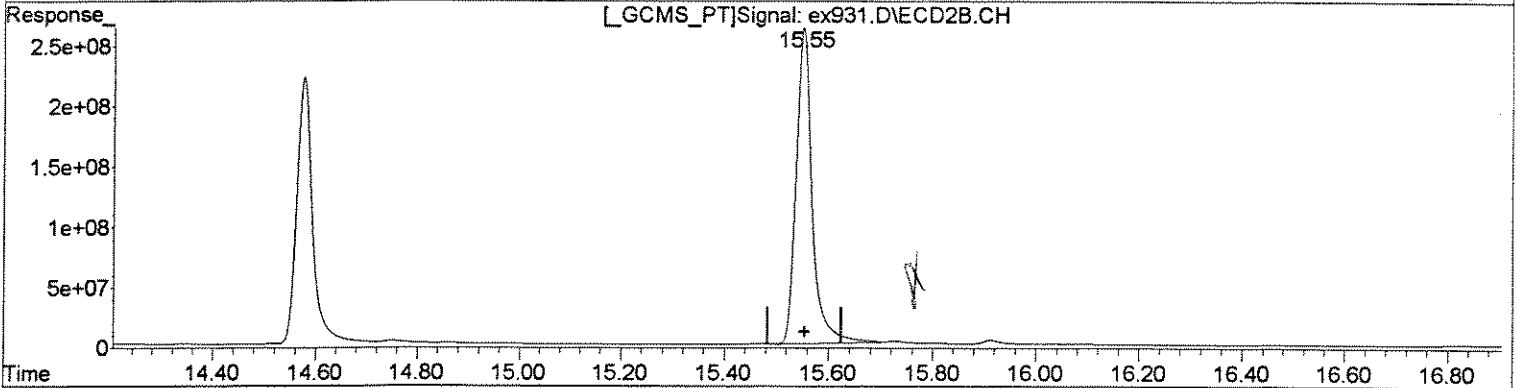
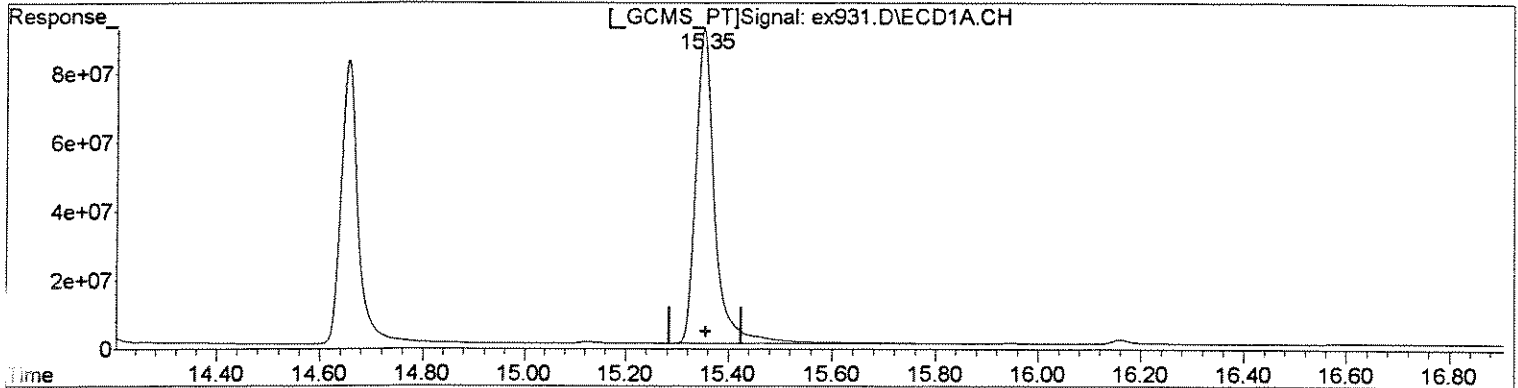
Handwritten mark

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 11:44 pm
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)
15.35min 241.550ug/l
response 2384046269

(22) Methoxychlor #2 (tc)
15.55min 230.575ug/l m
response 5560482719

Handwritten signature

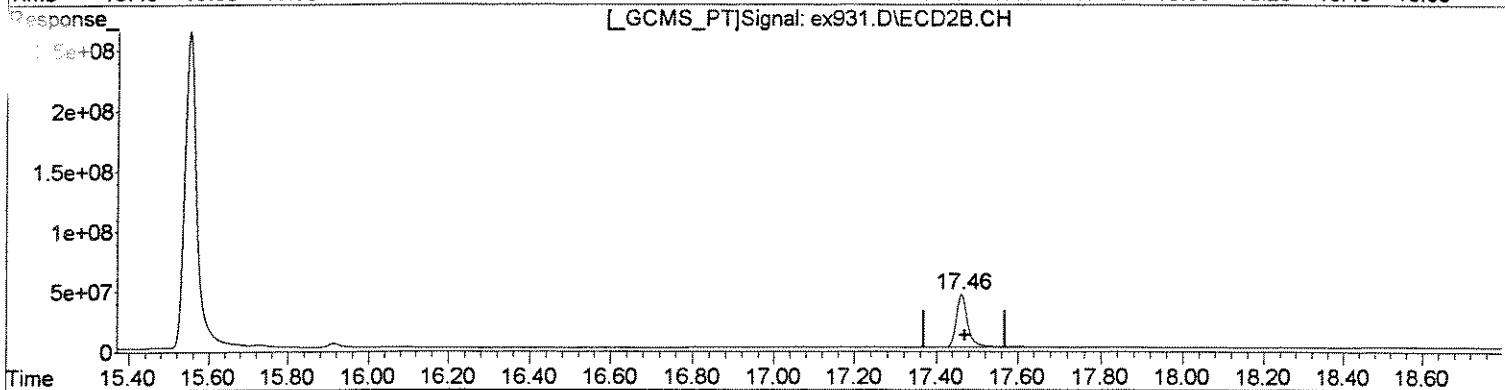
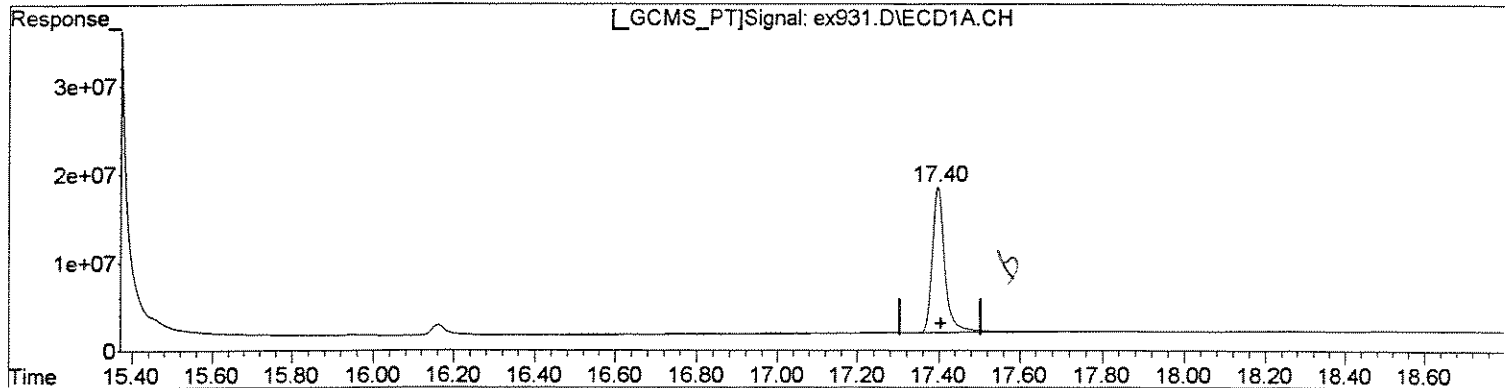
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 11:44 pm
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.40min 19.830ug/l
response 338699690

(25) SURR2,Decachlorobiphenyl #2 (S)
17.46min 19.838ug/l
response 865965177

B. Pedra

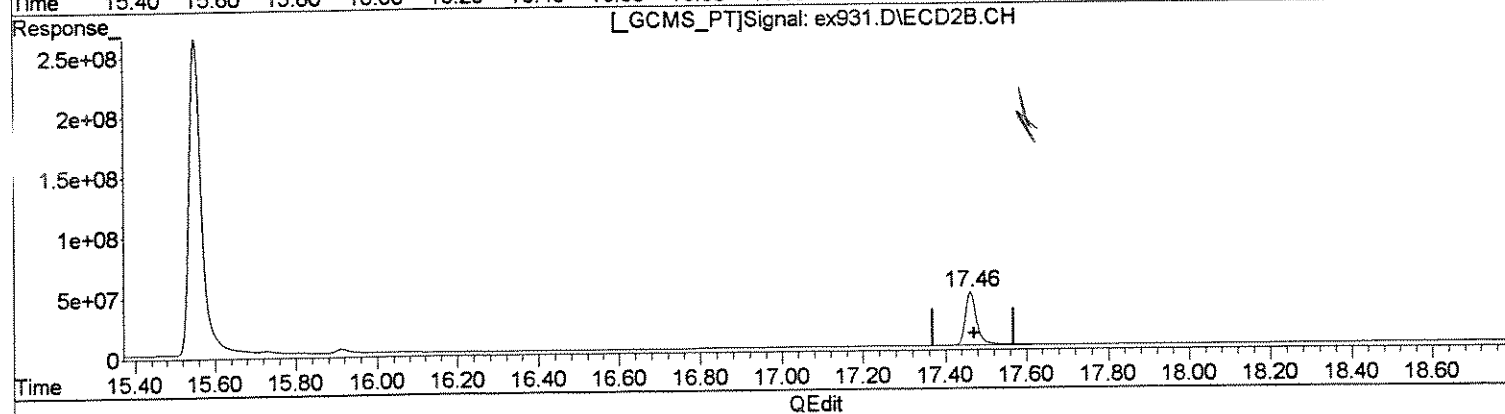
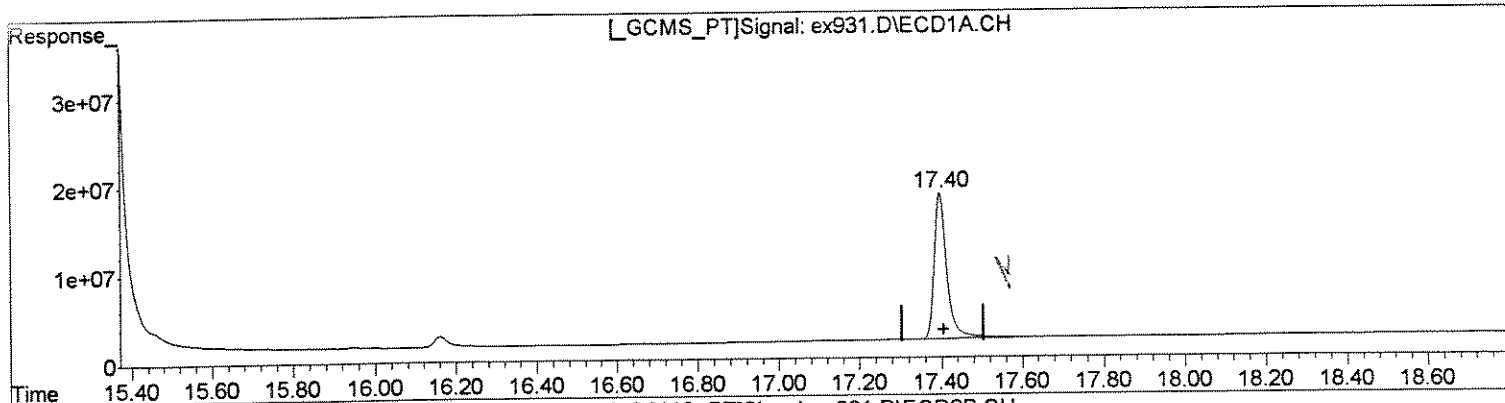
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 11:44 pm
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.40min 20.711ug/l m
response 353754213

(25) SURR2,Decachlorobiphenyl #2 (S)
17.46min 19.814ug/l m
response 864899160

Handwritten notes:
MW 7/1
MW 7/1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	STX-CLP	ID: 0.32 (mm)	Initial Calibration Date(s):	07/10/2008
EPA Sample No. (PEM):	PEM	Date Analyzed:	07/11/2008	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	9:33	
4,4'-DDT % Breakdown (1):	0.6%	Endrin % Breakdown (1):	1.9%	
Combined % Breakdown (1):	2.5%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	STX-CLPII	ID: 0.32 (mm)	Initial Calibration Date(s):	07/10/2008
EPA Sample No. (PEM):	PEM	Date Analyzed:	07/11/2008	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	9:33	
4,4'-DDT % Breakdown (1):	1.2%	Endrin % Breakdown (1):	2.2%	
Combined % Breakdown (1):	3.4%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey065.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 9:33 am
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:07:14 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

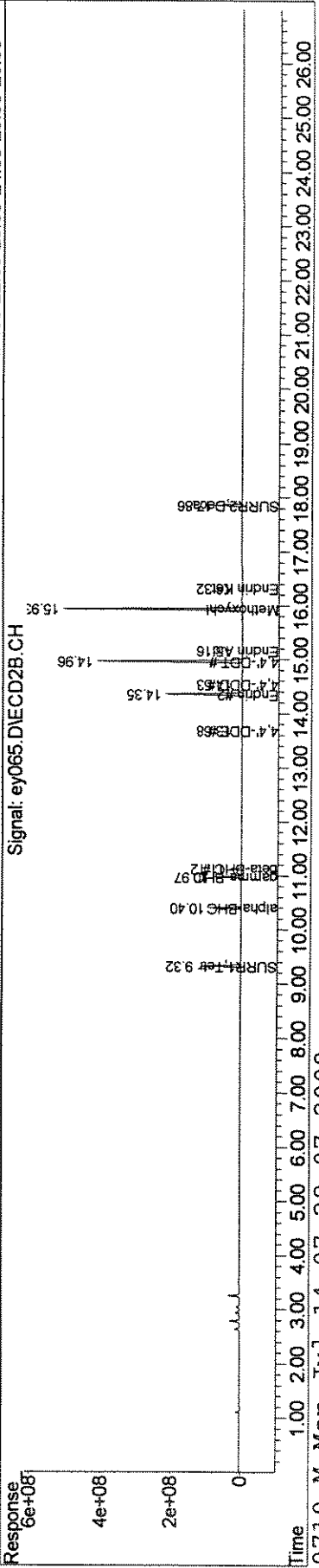
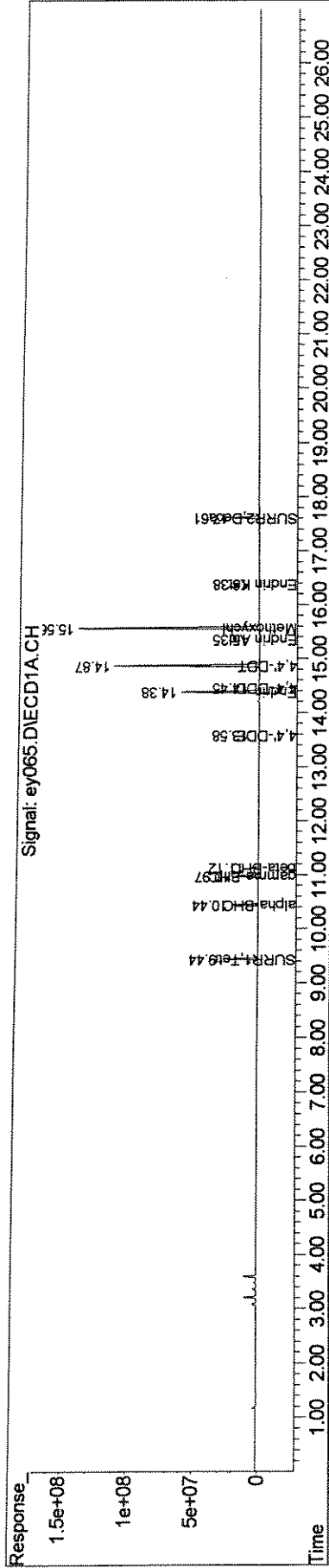
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	402.9E6	1719.0E6	19.964	21.244
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.96%#	21.24%#
5) S SURR2,Decachloro	17.61	17.86	380.0E6	1234.6E6	21.760	22.416
Spiked Amount	100.000	Range 30 - 150	Recovery =		21.76%#	22.42%#
Target Compounds						
3) tc alpha-BHC	10.44	10.40	298.7E6	1279.9E6	9.661	10.785
4) tcm gamma-BHC (L	10.97	10.97	273.3E6	1123.8E6	9.688	10.695
7) tc beta-BHC	11.12	11.12	111.6E6	487.0E6	9.718	10.792
3) tc 4,4'-DDE	13.58	13.68	4110398	26197074	0.189	0.342 #
5) tcm Endrin	14.38	14.35	1055.9E6	3671.6E6	50.965	54.510
8) tc 4,4'-DDD	14.45	14.53	7932465	56792564	0.441m	0.912m#
9) tcm 4,4'-DDT	14.87	14.96	2029.5E6	7016.4E6	106.047	107.109
0) tc Endrin Aldehy	15.35	15.16	5608457	31222759	0.382	0.637 #
2) tc Methoxychlor	15.56	15.93	2476.3E6	8204.1E6	265.903	282.381
4) tc Endrin Keton	16.38	16.32	14935650	51672258	0.771	0.824
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\071008\
 Data File : ey065.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 9:33 am
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:07:14 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

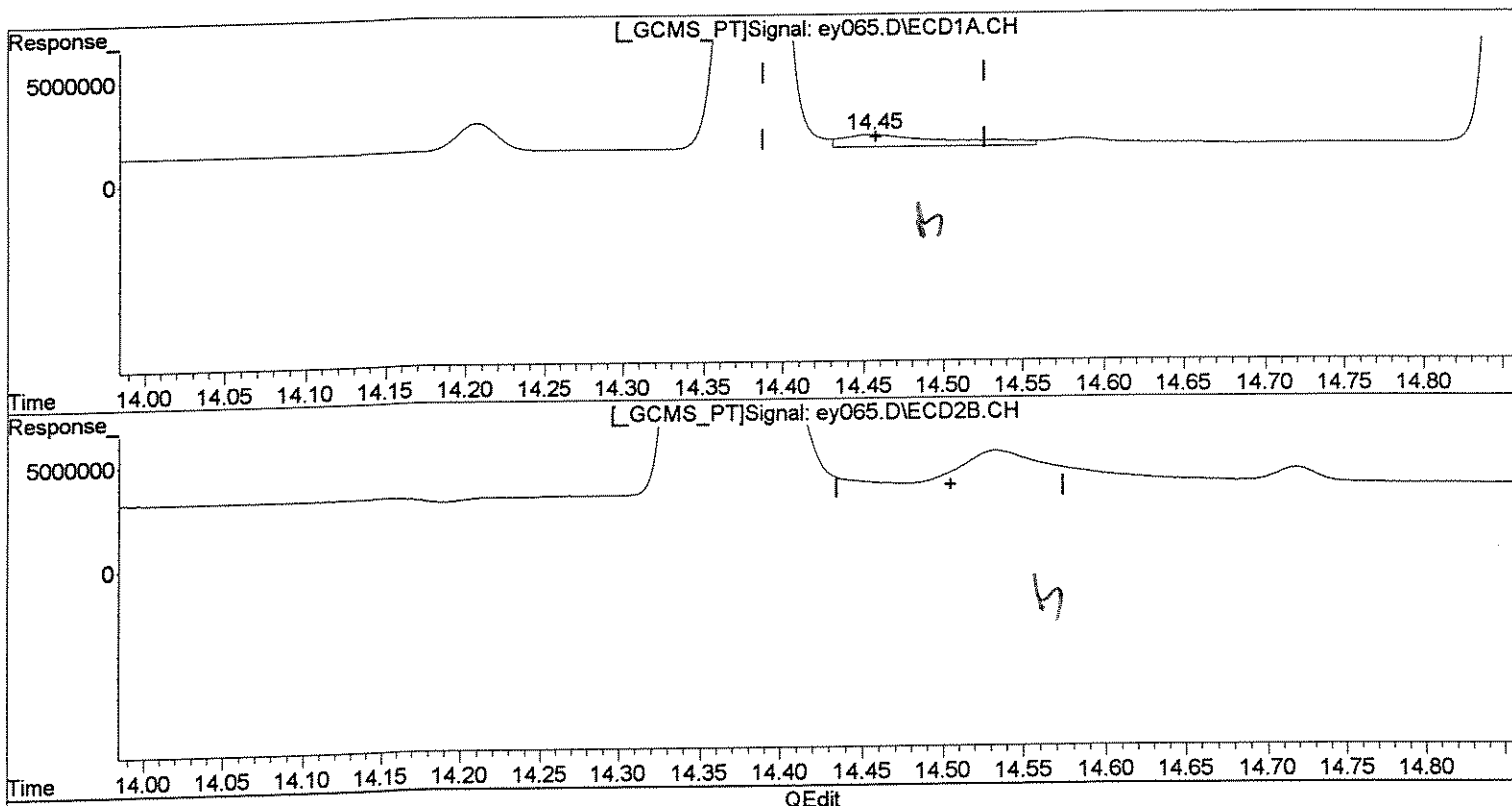


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey065.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 9:33 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:50:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) 4,4'-DDD (tc)
14.45min 1.575ug/l
response 28346468

(18) 4,4'-DDD #2 (tc)
0.00min 0.000ug/l
response 0

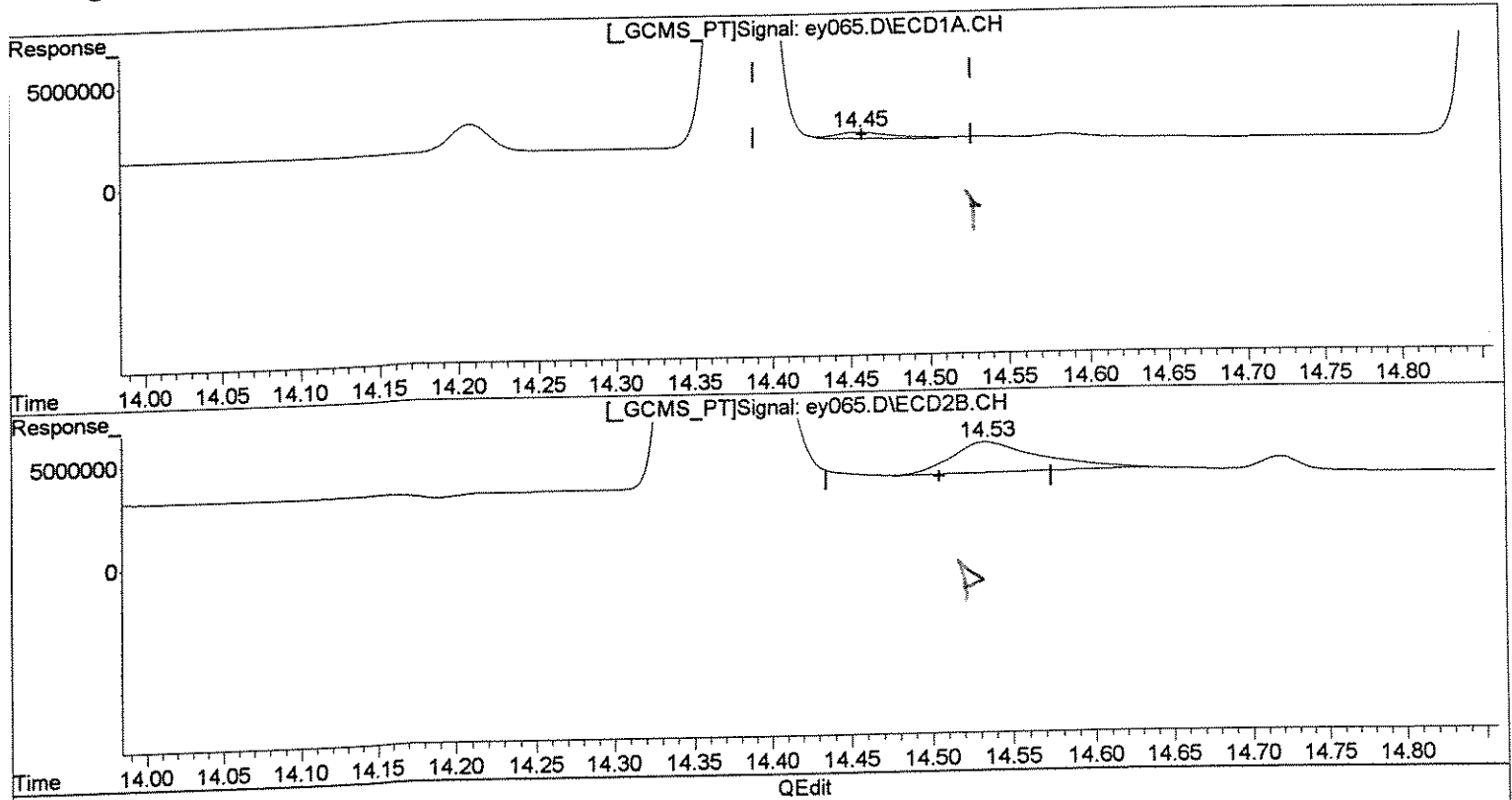
hake

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey065.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 9:33 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:50:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



(18) 4,4'-DDD (tc)
14.45min 0.441ug/l m
response 7932465

(18) 4,4'-DDD #2 (tc)
14.53min 0.912ug/l m
response 56792564

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7/14

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7/14

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	STX-CLP	ID: 0.32 (mm)	Initial Calibration Date(s):	07/10/2008
EPA Sample No. (PEM):	PEM	Date Analyzed:	07/14/2008	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	17:33	
4,4'-DDT % Breakdown (1):	1.1%	Endrin % Breakdown (1):	3.9%	
Combined % Breakdown (1):	5.0%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	STX-CLPII	ID: 0.32 (mm)	Initial Calibration Date(s):	07/10/2008
EPA Sample No. (PEM):	PEM	Date Analyzed:	07/14/2008	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	17:33	
4,4'-DDT % Breakdown (1):	1.7%	Endrin % Breakdown (1):	4.0%	
Combined % Breakdown (1):	5.7%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Data Path : J:\ACQUADATA\6890D\DATA\071408\
 Data File : ey118.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 14 Jul 2008 5:33 pm
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 12:33:32 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

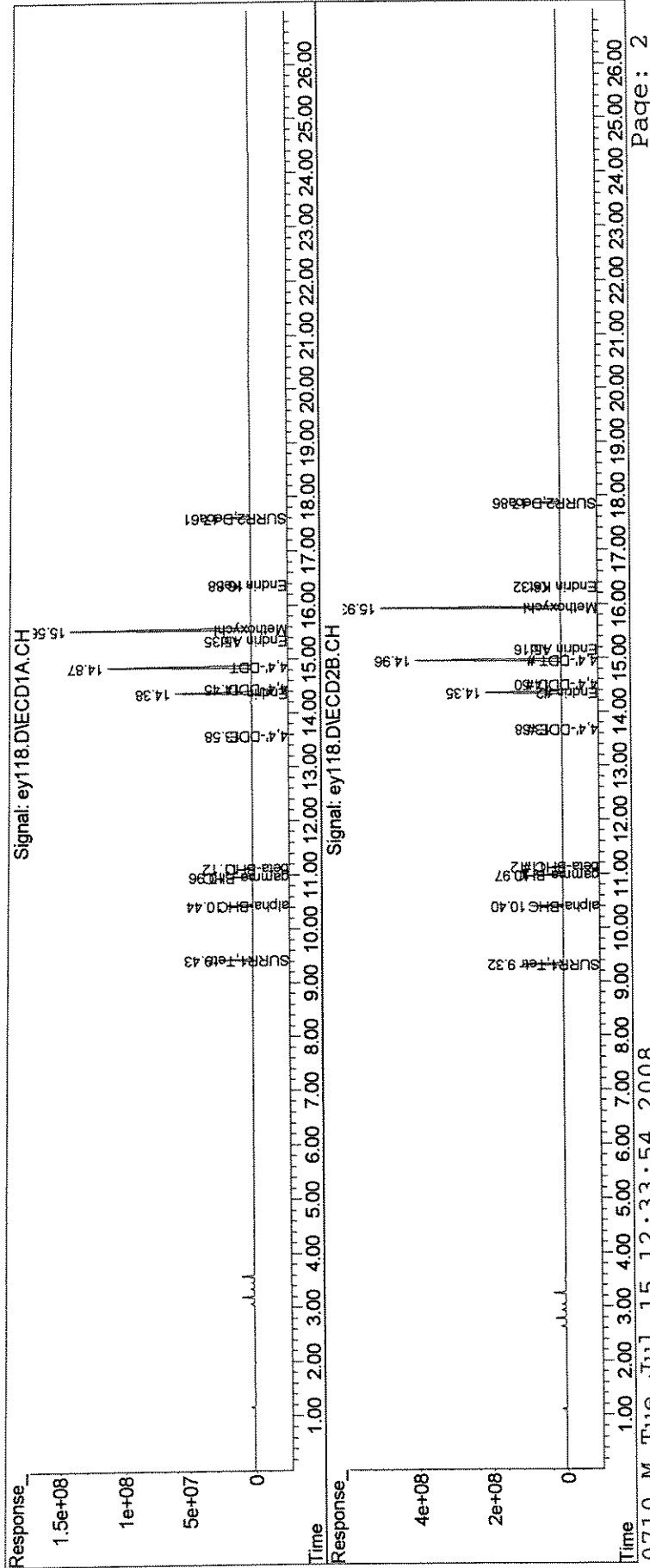
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	402.2E6	1667.6E6	19.929	20.609
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.93%#	20.61%#
5) S SURR2,Decachloro	17.61	17.86	363.1E6	1189.2E6	20.789	21.593
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.79%#	21.59%#
Target Compounds						
3) tc alpha-BHC	10.44	10.40	298.9E6	1223.9E6	9.668	10.313
4) tcm gamma-BHC (L	10.97	10.97	274.6E6	1081.3E6	9.735	10.291
7) tc beta-BHC	11.12	11.12	114.2E6	465.5E6	9.946	10.314
3) tc 4,4'-DDE	13.58	13.68	9889461	40972908	0.454	0.535
5) tcm Endrin	14.38	14.35	1044.2E6	3557.5E6	50.397	52.817
8) tc 4,4'-DDD	14.45	14.50	12769601	76784497	0.710	1.234 #
9) tcm 4,4'-DDT	14.87	14.96	2035.4E6	6708.7E6	106.357	102.413
0) tc Endrin Aldeh	15.35	15.16	15739059	57372039	1.072	1.170
2) tc Methoxychlor	15.56	15.93	2505.7E6	7886.7E6	269.060	271.456
4) tc Endrin Keton	16.38	16.32	26536072	90302104	1.370	1.439
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : ey118.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 14 Jul 2008 5:33 pm
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 12:33:32 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



81458

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	STX-CLP	ID: 0.32 (mm)	Initial Calibration Date(s):	07/10/2008
EPA Sample No. (PEM):	PEM	Date Analyzed:	07/16/2008	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	7:28	
4,4'-DDT % Breakdown (1):	1.3%	Endrin % Breakdown (1):	4.8%	
Combined % Breakdown (1):	6.1%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	STX-CLPII	ID: 0.32 (mm)	Initial Calibration Date(s):	07/10/2008
EPA Sample No. (PEM):	PEM		Date Analyzed:	07/16/2008
LAB Sample ID. (PEM):	PEM		Time Analyzed:	7:28
4,4'-DDT % Breakdown (1):	1.7%		Endrin % Breakdown (1):	5.1%
Combined % Breakdown (1):	6.8%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUADATA\6890D\DATA\071608\
 Data File : ey119.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 7:28 am
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:12:16 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
.) S SURR1,Tetrac	9.44	9.32	379.9E6	1722.0E6	18.823	21.281
Spiked Amount	100.000	Range 30 - 150	Recovery =		18.82%#	21.28%#
.) S SURR2,Decachloro	17.62	17.85	349.5E6	1188.2E6	20.013	21.575
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.01%#	21.57%#
Target Compounds						
3) tc alpha-BHC	10.44	10.39	278.0E6	1214.7E6	8.991	10.236
4) tcm gamma-BHC (L)	10.97	10.97	252.7E6	1079.9E6	8.959	10.277
7) tc beta-BHC	11.13	11.12	105.8E6	476.2E6	9.217	10.551
3) tc 4,4'-DDE	13.59	13.68	10556008	48411890	0.485	0.632 #
5) tcm Endrin	14.38	14.35	968.7E6	3382.8E6	46.754	50.223
3) tc 4,4'-DDD	14.47	14.51	14497648	64112232	0.806	1.030 #
9) tcm 4,4'-DDT	14.87	14.95	1931.6E6	6629.9E6	100.933	101.209
0) tc Endrin Aldehy	15.36	15.16	18504320	70439531	1.261	1.436
2) tc Methoxychlor	15.57	15.92	2327.0E6	7908.8E6	249.869	272.217
4) tc Endrin Keton	16.39	16.31	30751821	112.5E6	1.588	1.793
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

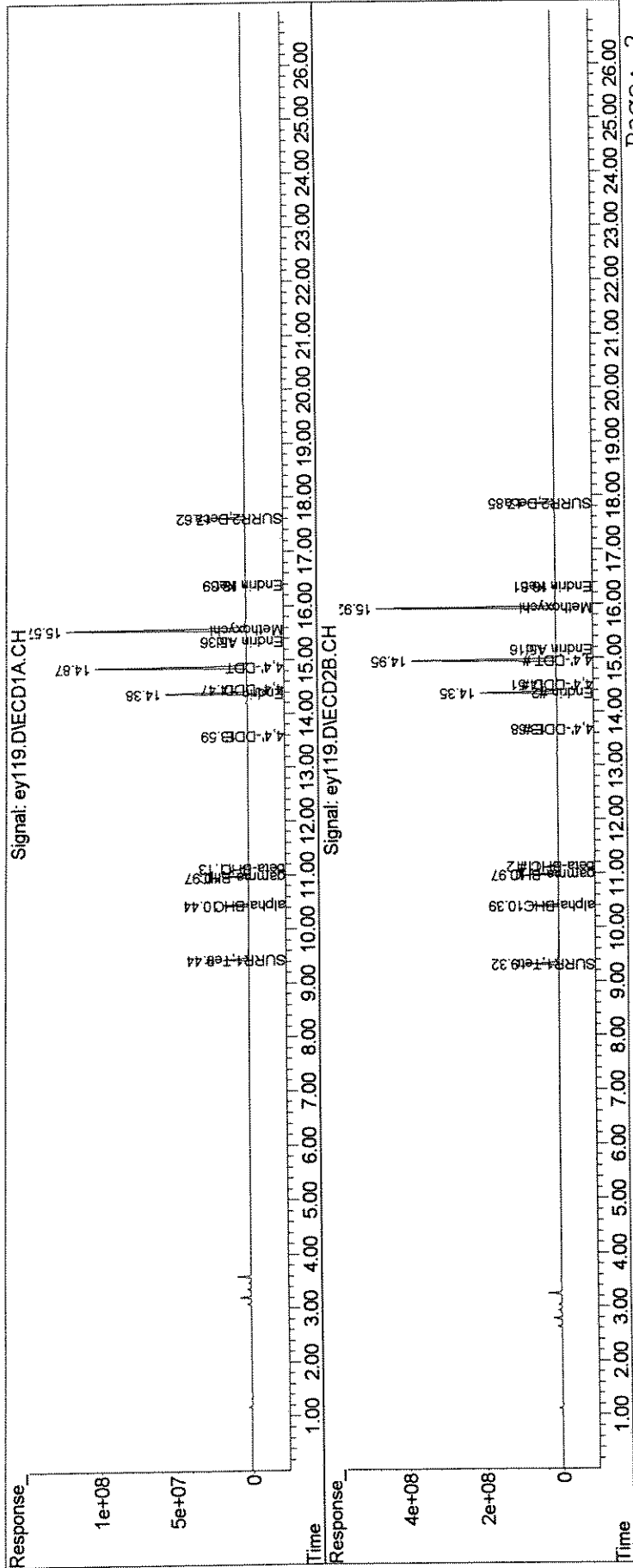
*ug
7/17*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey119.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 7:28 am
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:12:16 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1 µL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLP (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.28 DCB 17.42

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB
				rt_time	rt_time
indal	indal	6/2/2008	9:37	9.28	17.42
indaml	indaml	6/2/2008	10:12	9.29	17.42
indam	indam	6/2/2008	10:48	9.28	17.42
indamh	indamh	6/2/2008	11:23	9.28	17.42
indah	indah	6/2/2008	11:59	9.28	17.42
indbl	indbl	6/2/2008	12:34	9.28	17.42
indbml	indbml	6/2/2008	13:10	9.28	17.42
indbm	indbm	6/2/2008	13:46	9.28	17.42
indbmh	indbmh	6/2/2008	14:22	9.28	17.42
indbh	indbh	6/2/2008	14:57	9.28	17.42
kep/fam l	kep/fam l	6/2/2008	15:33	NA	NA
kep/fam ml	kep/fam ml	6/2/2008	16:08	NA	NA
kep/fam m	kep/fam m	6/2/2008	16:44	NA	NA
kep/fam mh	kep/fam mh	6/2/2008	17:20	NA	NA
kep/fam h	kep/fam h	6/2/2008	17:55	NA	NA
kep/fam icv	kep/fam icv	6/2/2008	18:31	NA	NA
tox l	tox l	6/2/2008	19:06	9.28	17.42
tox ml	tox ml	6/2/2008	19:43	9.29	17.42
tox m	tox m	6/2/2008	20:19	9.29	17.42
tox mh	tox mh	6/2/2008	20:54	9.29	17.42
tox h	tox h	6/2/2008	21:30	9.29	17.42

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLP (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.28 DCB 17.42

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
chlor l	chlor l	6/2/2008	22:05	9.28	17.42
chlor ml	chlor ml	6/2/2008	22:41	9.28	17.42
chlor m	chlor m	6/2/2008	23:16	9.28	17.42
chlor mh	chlor mh	6/2/2008	23:53	9.28	17.42
chlor h	chlor h	6/3/2008	0:29	9.28	17.42
pest icv	pest icv	6/3/2008	1:05	NA	NA
tox icv	tox icv	6/3/2008	1:40	NA	NA
chlor icv	chlor icv	6/3/2008	2:16	NA	NA
pem	pem	6/26/2008	8:27	9.28	17.41
ccv27a	ccv27a	6/26/2008	10:44	9.28	17.41
ccv27b	ccv27b	6/26/2008	11:19	9.28	17.40
ZZZZZ	ZZZZZ	6/26/2008	12:34	9.28	17.40
ZZZZZ	ZZZZZ	6/26/2008	13:20	9.28	17.40
ZZZZZ	ZZZZZ	6/26/2008	13:56	9.27	17.40
ZZZZZ	ZZZZZ	6/26/2008	14:31	9.27	17.40
ZZZZZ	ZZZZZ	6/26/2008	15:07	9.27	17.40
ZZZZZ	ZZZZZ	6/26/2008	15:42	9.27	17.39
ZZZZZ	ZZZZZ	6/26/2008	16:18	9.27	17.39
M-44B	1112065 1.	6/26/2008	16:53	9.27	17.40
H-49AB	1112066 1.	6/26/2008	17:29	9.27	17.40
FB062408GWAREA1	1112067 1.	6/26/2008	18:04	9.27	17.40

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
 DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an
 * Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLP (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.28 DCB 17.42

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
PBLK1	1112528 1.	6/26/2008	18:40	9.27	17.39
ccv28a	ccv28a	6/26/2008	19:15	9.28	17.40
ccv28b	ccv28b	6/26/2008	19:51	9.28	17.40
ZZZZZ	ZZZZZ	6/26/2008	20:26	9.27	17.40
PBLK1MS	1112529 1.	6/26/2008	21:02	9.27	17.40
PBLK1MSD	1112530 1.	6/26/2008	21:38	9.27	17.40
ZZZZZ	ZZZZZ	6/26/2008	22:13	9.27	17.40
ZZZZZ	ZZZZZ	6/26/2008	22:49	9.27	17.39
ZZZZZ	ZZZZZ	6/26/2008	23:24	9.27	17.39
ZZZZZ	ZZZZZ	6/27/2008	0:00	9.27	17.39
ZZZZZ	ZZZZZ	6/27/2008	0:36	9.27	17.39
ZZZZZ	ZZZZZ	6/27/2008	1:11	9.27	17.39
ZZZZZ	ZZZZZ	6/27/2008	1:47	9.27	17.40
ccv29a	ccv29a	6/27/2008	2:22	9.28	17.40
ccv29b	ccv29b	6/27/2008	2:58	9.28	17.40
pem	pem	6/30/2008	8:04	9.29	17.41
ccv30a	ccv30a	6/30/2008	8:39	9.28	17.40
ccv30b	ccv30b	6/30/2008	9:15	9.29	17.40
ZZZZZ	ZZZZZ	6/30/2008	9:50	NA	NA
ZZZZZ	ZZZZZ	6/30/2008	10:26	9.27	17.39
ZZZZZ	ZZZZZ	6/30/2008	11:01	9.27	17.39

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLP (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.28 DCB 17.42

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
ZZZZZ	ZZZZZ	6/30/2008	11:37	9.27	17.39
PBLK2	1113455 1.0	6/30/2008	12:29	9.28	17.40
PBLK2MS	1113456 1.0	6/30/2008	13:05	9.27	17.39
PBLK2MSD	1113457 1.0	6/30/2008	13:40	9.27	17.39
ZZZZZ	ZZZZZ	6/30/2008	14:16	9.27	17.39
ZZZZZ	ZZZZZ	6/30/2008	14:51	9.27	17.39
ccv31a	ccv31a	6/30/2008	15:27	9.28	17.39
ccv31b	ccv31b	6/30/2008	16:02	9.29	17.40
MC-45B	1112486 1.0	6/30/2008	16:38	9.27	17.39
MC-53B	1112487 1.0	6/30/2008	17:14	9.27	17.39
M-23B	1112488 1.0	6/30/2008	17:49	9.27	17.39
MC-97B	1112489 1.0	6/30/2008	18:25	9.27	17.39
MC-94B	1112809 1.	6/30/2008	19:00	9.27	17.39
MW-16B	1112810 1.	6/30/2008	19:36	9.27	17.39
M-5AB	1112811 1.	6/30/2008	20:11	9.27	17.39
EB062608GW3	1112812 1.	6/30/2008	20:47	9.27	17.39
M-61B	1112871 1.	6/30/2008	21:22	9.27	17.39
M-88BB	1112872 1.	6/30/2008	21:58	9.28	17.39
ccv32a	ccv32a	6/30/2008	22:33	9.29	17.40
ccv32b	ccv32b	6/30/2008	23:09	9.29	17.40
pem	pem	6/30/2008	23:44	9.30	17.40

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
 DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an
 * Values outside of QC

Form VIII Pest

Pesticide Analytical Sequence

Lab Name: Columbia Analytical **Client:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG** M-44B
GC Column(1) STx-CLP **(ID):** 0.32mm
Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.28 DCB 17.42

TCX DCB

<i>EPA Sample No.</i>	<i>Lab Sample ID</i>	<i>Date Analyzed</i>	<i>Time Analyzed</i>	<i>rt_time</i>	<i>rt_time</i>
ccv33a	ccv33a	7/1/2008	0:19	9.29	17.40
ccv33b	ccv33b	7/1/2008	0:55	9.30	17.40
M-7BB	1112874 1.	7/1/2008	1:30	9.27	17.39
M-7BB MS	1113458 1.	7/1/2008	2:06	9.27	17.39
M-7BB MSD	1113459 1.	7/1/2008	2:41	9.27	17.39
ccv34a	ccv34a	7/1/2008	3:17	9.29	17.39
ccv34b	ccv34b	7/1/2008	3:52	9.29	17.40

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(I) STx-CLP (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.44 DCB 17.62

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
indal	indal	7/10/2008	16:22	9.44	17.62
indaml	indaml	7/10/2008	16:58	9.44	17.62
indam	indam	7/10/2008	17:33	9.44	17.62
indamh	indamh	7/10/2008	18:09	9.44	17.61
indah	indah	7/10/2008	18:44	9.44	17.62
indbl	indbl	7/10/2008	19:20	9.44	17.61
indbml	indbml	7/10/2008	19:55	9.44	17.61
indbm	indbm	7/10/2008	20:31	9.44	17.61
indbmh	indbmh	7/10/2008	21:07	9.44	17.61
indbh	indbh	7/10/2008	21:43	9.44	17.61
kep/fam l	kep/fam l	7/10/2008	22:18	NA	NA
kep/fam ml	kep/fam ml	7/10/2008	22:54	NA	NA
kep/fam m	kep/fam m	7/10/2008	23:30	NA	NA
kep/fam mh	kep/fam mh	7/11/2008	0:05	NA	NA
kep/fam h	kep/fam h	7/11/2008	0:41	NA	NA
kep/fam icv	kep/fam icv	7/11/2008	1:16	NA	NA
tox l	tox l	7/11/2008	1:52	9.44	17.61
tox ml	tox ml	7/11/2008	2:27	9.44	17.61
tox m	tox m	7/11/2008	3:03	9.44	17.61
tox mh	tox mh	7/11/2008	3:38	9.44	17.61
tox h	tox h	7/11/2008	4:14	9.44	17.61

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
 DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an
 * Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STX-CLP (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.44 DCB 17.62

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
chlor l	chlor l	7/11/2008	4:49	9.44	17.61
chlor ml	chlor ml	7/11/2008	5:25	9.44	17.61
chlor m	chlor m	7/11/2008	6:00	9.44	17.61
chlor mh	chlor mh	7/11/2008	6:36	9.44	17.61
chlor h	chlor h	7/11/2008	7:11	9.44	17.61
pest icv	pest icv	7/11/2008	7:47	NA	NA
tox icv	tox icv	7/11/2008	8:22	NA	NA
chlor icv	chlor icv	7/11/2008	8:58	NA	NA
pem	pem	7/11/2008	9:33	9.44	17.61
ccv1a	ccv1a	7/11/2008	10:09	9.44	17.61
ccv1b	ccv1b	7/11/2008	10:44	9.44	17.61
ZZZZZ	ZZZZZ	7/11/2008	11:20	9.43	17.61
ZZZZZ	ZZZZZ	7/11/2008	11:56	9.44	17.61
MC-53B D	1112487 10.	7/11/2008	12:31	9.43	17.61
ZZZZZ	ZZZZZ	7/11/2008	13:07	9.43	17.61
MC-94B D	1112809 10.	7/11/2008	13:42	9.43	17.61
MW-16B D	1112810 10.	7/11/2008	14:18	9.43	17.61
M-5AB D	1112811 10.	7/11/2008	14:54	9.43	17.61
MC-97B D	1112489 20.	7/11/2008	15:29	D	D
ZZZZZ	ZZZZZ	7/11/2008	16:05	NA	NA
ccv2a	ccv2a	7/11/2008	16:41	9.43	17.61

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(I) STx-CLP (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.44 DCB 17.62

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
ccv2b	ccv2b	7/11/2008	17:16	9.43	17.61
pem	pem	7/14/2008	17:33	9.43	17.61
ccv4a	ccv4a	7/14/2008	18:09	9.43	17.61
ccv4b	ccv4b	7/14/2008	18:45	9.43	17.61
ZZZZZ	ZZZZZ	7/14/2008	19:20	9.43	17.61
ZZZZZ	ZZZZZ	7/14/2008	19:56	9.43	17.61
ZZZZZ	ZZZZZ	7/14/2008	20:31	9.43	17.61
ZZZZZ	ZZZZZ	7/14/2008	21:07	9.43	17.61
ZZZZZ	ZZZZZ	7/14/2008	21:43	9.43	17.61
ZZZZZ	ZZZZZ	7/14/2008	22:18	9.43	17.61
MC-45B D	1112486 50.0	7/14/2008	22:54	D	D
ZZZZZ	ZZZZZ	7/14/2008	23:29	9.43	17.61
ZZZZZ	ZZZZZ	7/15/2008	0:05	9.43	17.61
ZZZZZ	ZZZZZ	7/15/2008	0:40	9.43	17.61
ccv5a	ccv5a	7/15/2008	1:16	9.44	17.61
ccv5b	ccv5b	7/15/2008	1:51	9.44	17.61
pem	pem	7/16/2008	7:28	9.44	17.62
ccv8a	ccv8a	7/16/2008	15:14	9.43	17.61
ccv8b	ccv8b	7/16/2008	15:50	9.43	17.61
PBLK3	1117894 1.0	7/16/2008	16:26	9.43	17.61
PBLK3MS	1117895 1.0	7/16/2008	17:01	9.43	17.61

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
 DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an
 * Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Client: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLP (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.44 DCB 17.62

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
PBLK3MSD	1117896 1.0	7/16/2008	17:37	9.43	17.60
M-67B	1113426 1.0	7/16/2008	18:12	9.43	17.61
M-6AB	1113427 1.0	7/16/2008	18:48	9.43	17.61
M-57AB	1113428 1.0	7/16/2008	19:23	9.43	17.61
M-95B	1113429 1.0	7/16/2008	19:59	9.43	17.60
M-68B	1113430 1.0	7/16/2008	20:35	9.43	17.61
<i>ZZZZZ</i>	<i>ZZZZZ</i>	7/16/2008	21:10	9.43	17.60
<i>ZZZZZ</i>	<i>ZZZZZ</i>	7/16/2008	21:46	9.43	17.60
ccv9a	ccv9a	7/16/2008	22:21	9.43	17.61
ccv9b	ccv9b	7/16/2008	22:57	9.44	17.61

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Contract: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLPII (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.06 DCB 17.50

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
indal	indal	6/2/2008	9:37	9.06	17.50
indaml	indaml	6/2/2008	10:12	9.06	17.50
indam	indam	6/2/2008	10:48	9.06	17.50
indamh	indamh	6/2/2008	11:23	9.06	17.50
indah	indah	6/2/2008	11:59	9.06	17.50
indbl	indbl	6/2/2008	12:34	9.06	17.50
indbml	indbml	6/2/2008	13:10	9.06	17.50
indbm	indbm	6/2/2008	13:46	9.06	17.50
indbmh	indbmh	6/2/2008	14:22	9.06	17.50
indbh	indbh	6/2/2008	14:57	9.06	17.50
kep/fam l	kep/fam l	6/2/2008	15:33	NA	NA
kep/fam ml	kep/fam ml	6/2/2008	16:08	NA	NA
kep/fam m	kep/fam m	6/2/2008	16:44	NA	NA
kep/fam mh	kep/fam mh	6/2/2008	17:20	NA	NA
kep/fam h	kep/fam h	6/2/2008	17:55	NA	NA
kep/fam icv	kep/fam icv	6/2/2008	18:31	NA	NA
tox l	tox l	6/2/2008	19:06	9.06	17.50
tox ml	tox ml	6/2/2008	19:43	9.06	17.50
tox m	tox m	6/2/2008	20:19	9.06	17.50
tox mh	tox mh	6/2/2008	20:54	9.06	17.50
tox h	tox h	6/2/2008	21:30	9.06	17.50

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Contract: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLPII (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.06 DCB 17.50

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
chlor l	chlor l	6/2/2008	22:05	9.06	17.50
chlor ml	chlor ml	6/2/2008	22:41	9.06	17.50
chlor m	chlor m	6/2/2008	23:16	9.06	17.50
chlor mh	chlor mh	6/2/2008	23:53	9.05	17.50
chlor h	chlor h	6/3/2008	0:29	9.05	17.50
pest icv	pest icv	6/3/2008	1:05	NA	NA
tox icv	tox icv	6/3/2008	1:40	NA	NA
chlor icv	chlor icv	6/3/2008	2:16	NA	NA
pem	pem	6/26/2008	8:27	9.04	17.47
ccv27a	ccv27a	6/26/2008	10:44	9.04	17.47
ccv27b	ccv27b	6/26/2008	11:19	9.04	17.47
ZZZZZ	ZZZZZ	6/26/2008	12:34	9.04	17.47
ZZZZZ	ZZZZZ	6/26/2008	13:20	9.04	17.47
ZZZZZ	ZZZZZ	6/26/2008	13:56	9.04	17.46
ZZZZZ	ZZZZZ	6/26/2008	14:31	9.04	17.47
ZZZZZ	ZZZZZ	6/26/2008	15:07	9.04	17.46
ZZZZZ	ZZZZZ	6/26/2008	15:42	9.04	17.46
ZZZZZ	ZZZZZ	6/26/2008	16:18	9.04	17.46
M-44B	1112065 1.	6/26/2008	16:53	9.03	17.46
H-49AB	1112066 1.	6/26/2008	17:29	9.03	17.46
FB062408GWAREA1	1112067 1.	6/26/2008	18:04	9.03	17.46

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Contract: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLPII (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.06 DCB 17.50

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
PBLK1	1112528 1.	6/26/2008	18:40	9.04	17.46
ccv28a	ccv28a	6/26/2008	19:15	9.04	17.46
ccv28b	ccv28b	6/26/2008	19:51	9.04	17.47
ZZZZZ	ZZZZZ	6/26/2008	20:26	9.04	17.46
PBLK1MS	1112529 1.	6/26/2008	21:02	9.04	17.46
PBLK1MSD	1112530 1.	6/26/2008	21:38	9.04	17.46
ZZZZZ	ZZZZZ	6/26/2008	22:13	9.04	17.46
ZZZZZ	ZZZZZ	6/26/2008	22:49	9.04	17.46
ZZZZZ	ZZZZZ	6/26/2008	23:24	9.03	17.46
ZZZZZ	ZZZZZ	6/27/2008	0:00	9.03	17.46
ZZZZZ	ZZZZZ	6/27/2008	0:36	9.03	17.46
ZZZZZ	ZZZZZ	6/27/2008	1:11	9.03	17.46
ZZZZZ	ZZZZZ	6/27/2008	1:47	9.03	17.46
ccv29a	ccv29a	6/27/2008	2:22	9.04	17.46
ccv29b	ccv29b	6/27/2008	2:58	9.04	17.46
pem	pem	6/30/2008	8:04	9.05	17.47
ccv30a	ccv30a	6/30/2008	8:39	9.05	17.46
ccv30b	ccv30b	6/30/2008	9:15	9.05	17.46
ZZZZZ	ZZZZZ	6/30/2008	9:50	NA	NA
ZZZZZ	ZZZZZ	6/30/2008	10:26	9.03	17.46
ZZZZZ	ZZZZZ	6/30/2008	11:01	9.03	17.46

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
 DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Contract: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLPII (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.06 DCB 17.50

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
ZZZZZ	ZZZZZ	6/30/2008	11:37	9.03	17.46
PBLK2	1113455 1.0	6/30/2008	12:29	9.04	17.46
PBLK2MS	1113456 1.0	6/30/2008	13:05	9.03	17.46
PBLK2MSD	1113457 1.0	6/30/2008	13:40	9.03	17.46
ZZZZZ	ZZZZZ	6/30/2008	14:16	9.04	17.46
ZZZZZ	ZZZZZ	6/30/2008	14:51	9.04	17.46
ccv31a	ccv31a	6/30/2008	15:27	9.05	17.46
ccv31b	ccv31b	6/30/2008	16:02	9.05	17.46
MC-45B	1112486 1.0	6/30/2008	16:38	9.03	17.46
MC-53B	1112487 1.0	6/30/2008	17:14	9.04	17.46
M-23B	1112488 1.0	6/30/2008	17:49	9.04	17.46
MC-97B	1112489 1.0	6/30/2008	18:25	9.03	17.46
MC-94B	1112809 1.	6/30/2008	19:00	9.03	17.46
MW-16B	1112810 1.	6/30/2008	19:36	9.03	17.46
M-5AB	1112811 1.	6/30/2008	20:11	9.03	17.46
EB062608GW3	1112812 1.	6/30/2008	20:47	9.04	17.46
M-61B	1112871 1.	6/30/2008	21:22	9.04	17.46
M-88BB	1112872 1.	6/30/2008	21:58	9.04	17.46
ccv32a	ccv32a	6/30/2008	22:33	9.05	17.46
ccv32b	ccv32b	6/30/2008	23:09	9.06	17.46
pem	pem	6/30/2008	23:44	9.06	17.46

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG** M-44B
GC Column(I) STx-CLPII **(ID):** 0.32mm
Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.06 DCB 17.50

<i>EPA Sample No.</i>	<i>Lab Sample ID</i>	<i>Date Analyzed</i>	<i>Time Analyzed</i>	<i>TCX rt_time</i>	<i>DCB rt_time</i>
ccv33a	ccv33a	7/1/2008	0:19	9.06	17.46
ccv33b	ccv33b	7/1/2008	0:55	9.06	17.46
M-7BB	1112874 1.	7/1/2008	1:30	9.04	17.46
M-7BB MS	1113458 1.	7/1/2008	2:06	9.04	17.46
M-7BB MSD	1113459 1.	7/1/2008	2:41	9.04	17.46
ccv34a	ccv34a	7/1/2008	3:17	9.05	17.46
ccv34b	ccv34b	7/1/2008	3:52	9.06	17.46

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Contract: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLPII (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.32 DCB 17.86

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
indal	indal	7/10/2008	16:22	9.32	17.86
indaml	indaml	7/10/2008	16:58	9.32	17.86
indam	indam	7/10/2008	17:33	9.32	17.86
indamh	indamh	7/10/2008	18:09	9.32	17.86
indah	indah	7/10/2008	18:44	9.32	17.86
indbl	indbl	7/10/2008	19:20	9.32	17.86
indbml	indbml	7/10/2008	19:55	9.32	17.86
indbm	indbm	7/10/2008	20:31	9.32	17.86
indbmh	indbmh	7/10/2008	21:07	9.32	17.86
indbh	indbh	7/10/2008	21:43	9.32	17.86
kep/fam l	kep/fam l	7/10/2008	22:18	NA	NA
kep/fam ml	kep/fam ml	7/10/2008	22:54	NA	NA
kep/fam m	kep/fam m	7/10/2008	23:30	NA	NA
kep/fam mh	kep/fam mh	7/11/2008	0:05	NA	NA
kep/fam h	kep/fam h	7/11/2008	0:41	NA	NA
kep/fam icv	kep/fam icv	7/11/2008	1:16	NA	NA
tox l	tox l	7/11/2008	1:52	9.32	17.86
tox ml	tox ml	7/11/2008	2:27	9.32	17.86
tox m	tox m	7/11/2008	3:03	9.32	17.86
tox mh	tox mh	7/11/2008	3:38	9.32	17.86
tox h	tox h	7/11/2008	4:14	9.32	17.86

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Contract: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLPII (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

				TCX	DCB
TCX	9.32	DCB	17.86		
EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	rt_time	rt_time
chlor l	chlor l	7/11/2008	4:49	9.32	17.86
chlor ml	chlor ml	7/11/2008	5:25	9.32	17.86
chlor m	chlor m	7/11/2008	6:00	9.32	17.86
chlor mh	chlor mh	7/11/2008	6:36	9.32	17.86
chlor h	chlor h	7/11/2008	7:11	9.32	17.86
pest icv	pest icv	7/11/2008	7:47	NA	NA
tox icv	tox icv	7/11/2008	8:22	NA	NA
chlor icv	chlor icv	7/11/2008	8:58	NA	NA
pem	pem	7/11/2008	9:33	9.32	17.86
ccv1a	ccv1a	7/11/2008	10:09	9.32	17.86
ccv1b	ccv1b	7/11/2008	10:44	9.32	17.86
ZZZZZ	ZZZZZ	7/11/2008	11:20	9.32	17.86
ZZZZZ	ZZZZZ	7/11/2008	11:56	9.32	17.86
MC-53B D	1112487 10.	7/11/2008	12:31	9.32	17.86
ZZZZZ	ZZZZZ	7/11/2008	13:07	9.32	17.86
MC-94B D	1112809 10.	7/11/2008	13:42	9.32	17.86
MW-16B D	1112810 10.	7/11/2008	14:18	9.32	17.86
M-5AB D	1112811 10.	7/11/2008	14:54	9.32	17.86
MC-97B D	1112489 20.	7/11/2008	15:29	D	D
ZZZZZ	ZZZZZ	7/11/2008	16:05	NA	NA
ccv2a	ccv2a	7/11/2008	16:41	9.32	17.86

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
 DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Contract: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLPII (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.32 DCB 17.86

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
ccv2b	ccv2b	7/11/2008	17:16	9.32	17.86
pem	pem	7/14/2008	17:33	9.32	17.86
ccv4a	ccv4a	7/14/2008	18:09	9.32	17.86
ccv4b	ccv4b	7/14/2008	18:45	9.32	17.86
ZZZZZ	ZZZZZ	7/14/2008	19:20	9.32	17.86
ZZZZZ	ZZZZZ	7/14/2008	19:56	9.32	17.86
ZZZZZ	ZZZZZ	7/14/2008	20:31	9.32	17.86
ZZZZZ	ZZZZZ	7/14/2008	21:07	9.32	17.86
ZZZZZ	ZZZZZ	7/14/2008	21:43	9.32	17.86
ZZZZZ	ZZZZZ	7/14/2008	22:18	9.32	17.86
MC-45B 0	1112486 50.0	7/14/2008	22:54	D	D
ZZZZZ	ZZZZZ	7/14/2008	23:29	9.32	17.86
ZZZZZ	ZZZZZ	7/15/2008	0:05	9.32	17.86
ZZZZZ	ZZZZZ	7/15/2008	0:40	9.32	17.86
ccv5a	ccv5a	7/15/2008	1:16	9.32	17.86
ccv5b	ccv5b	7/15/2008	1:51	9.32	17.86
pem	pem	7/16/2008	7:28	9.32	17.85
ccv8a	ccv8a	7/16/2008	15:14	9.32	17.85
ccv8b	ccv8b	7/16/2008	15:50	9.32	17.85
PBLK3	1117894 1.0	7/16/2008	16:26	9.32	17.85
PBLK3MS	1117895 1.0	7/16/2008	17:01	9.32	17.85

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
 DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Contract: ENSR
 Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG M-44B
 GC Column(1) STx-CLPII (ID): 0.32mm
 Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.32 DCB 17.86

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB
				rt_time	rt_time
PBLK3MSD	1117896 1.0	7/16/2008	17:37	9.32	17.85
M-67B	1113426 1.0	7/16/2008	18:12	9.32	17.85
M-6AB	1113427 1.0	7/16/2008	18:48	9.32	17.85
M-57AB	1113428 1.0	7/16/2008	19:23	9.32	17.85
M-95B	1113429 1.0	7/16/2008	19:59	9.32	17.85
M-68B	1113430 1.0	7/16/2008	20:35	9.32	17.85
ZZZZZ	ZZZZZ	7/16/2008	21:10	9.32	17.85
ZZZZZ	ZZZZZ	7/16/2008	21:46	9.32	17.85
ccv9a	ccv9a	7/16/2008	22:21	9.32	17.85
ccv9b	ccv9b	7/16/2008	22:57	9.32	17.85

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex872.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 10:44 am
 Operator : M.PEDRO
 Sample : ccv27a
 Misc : indam
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:08:17 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1,Tetrac	18.833	18.925 E6	-0.5	102	0.00
3 tc alpha-BHC	30.031	30.267 E6	-0.8	101	0.00
4 tcm gamma-BHC (L	27.489	27.392 E6	0.4	100	0.00
5 tcm Heptachlor	26.908	27.306 E6	-1.5	102	0.00
10 tc alpha-Endosu	20.604	20.534 E6	0.3	101	-0.01
14 tcm Dieldrin	23.283	23.444 E6	-0.7	100	-0.01
15 tcm Endrin	20.860	20.032 E6	4.0	96	-0.01
18 tc 4,4'-DDD	18.810	18.590 E6	1.2	99	0.00
19 tcm 4,4'-DDT	20.032	18.340 E6	8.4	91	-0.01
22 tc Methoxychlor	9.870	9.190 E6	6.9	93	-0.01
25 S SURR2,Decachlorobiphenyl	17.080	16.886 E6	1.1	100	-0.01

Signal #2

1 S SURR1,Tetrac	61.016	61.910 E6	-1.5	102	-0.02
3 tc alpha-BHC	92.467	97.796 E6	-5.8	105	-0.02
4 tcm gamma-BHC (L	82.157	87.698 E6	-6.7	107	-0.02
5 tcm Heptachlor	79.864	83.470 E6	-4.5	104	-0.03
10 tc alpha-Endosu	59.586	60.560 E6	-1.6	101	-0.03
14 tcm Dieldrin	65.254	66.469 E6	-1.9	101	-0.03
15 tcm Endrin	56.721	56.094 E6	1.1	98	-0.03
18 tc 4,4'-DDD	51.629	51.473 E6	0.3	99	-0.03
19 tcm 4,4'-DDT	54.800	50.771 E6	7.4	92	-0.03
22 tc Methoxychlor	24.116	23.051 E6	4.4	95	-0.03
25 S SURR2,Decachlorobiphenyl	43.651	42.157 E6	3.4	97	-0.03

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex872.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 10:44 am
 Operator : M.PEDRO
 Sample : ccv27a
 Misc : indam
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:08:17 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

1) S SURR1,Tetrac	9.28	9.04	378.5E6	1238.2E6	20.097	20.293
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.10%#	20.29%#
25) S SURR2,Decachloro	17.41	17.47	675.4E6	1686.3E6	39.545	38.631
Spiked Amount	100.000	Range 30 - 150	Recovery =		39.55%	38.63%

Target Compounds

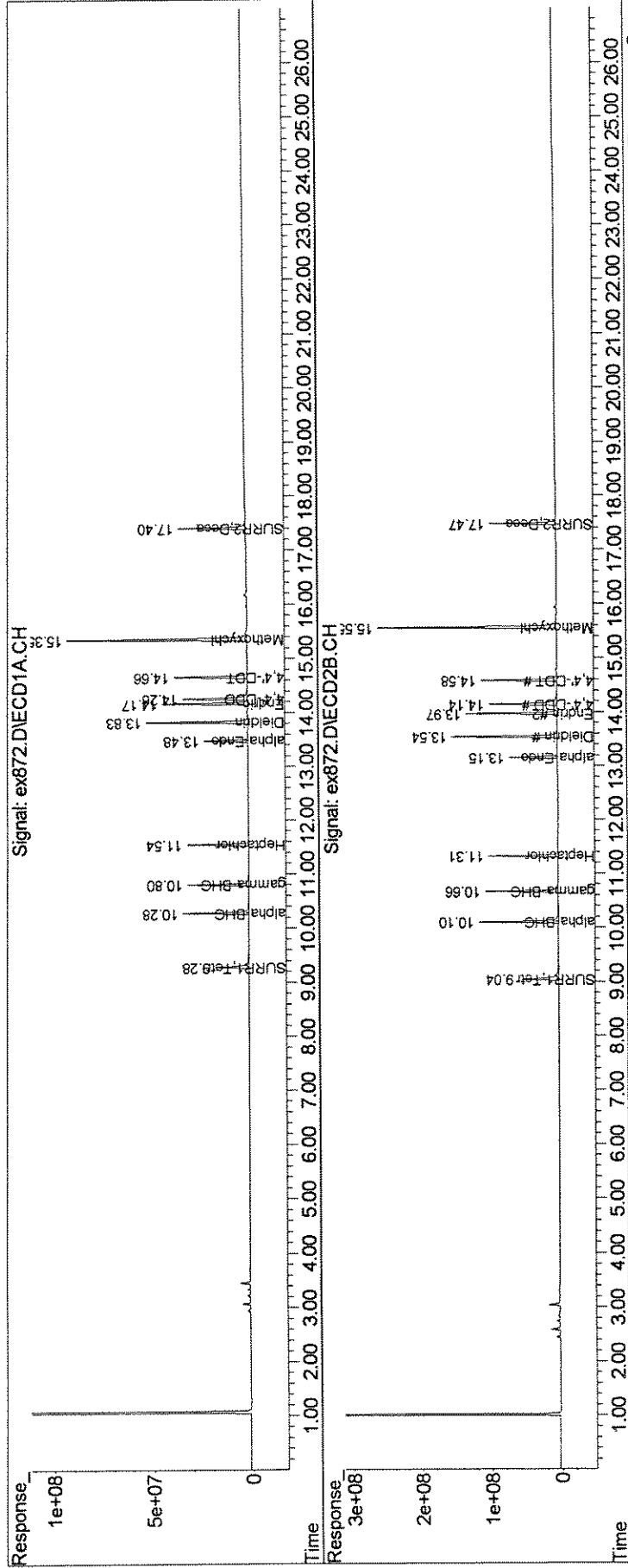
3) tc alpha-BHC	10.28	10.10	605.3E6	1955.9E6	20.157	21.153
4) tcm gamma-BHC (L)	10.80	10.66	547.8E6	1754.0E6	19.929	21.349
5) tcm Heptachlor	11.55	11.31	546.1E6	1669.4E6	20.295	20.903
10) tc alpha-Endosu	13.48	13.15	410.7E6	1211.2E6	19.933	20.327
14) tcm Dieldrin	13.83	13.54	937.7E6	2658.8E6	40.275	40.745
15) tcm Endrin	14.17	13.97	801.3E6	2243.8E6	38.413	39.558
18) tc 4,4'-DDD	14.26	14.14	743.6E6	2058.9E6	39.534	39.879
19) tcm 4,4'-DDT	14.66	14.58	733.6E6	2030.8E6	36.621	37.059
22) tc Methoxychlor	15.36	15.56	1838.0E6	4610.3E6	186.225	191.173
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex872.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 10:44 am
 Operator : M.PEDRO
 Sample : ccv27a
 Misc : indam
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:08:17 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex873.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 11:19 am
 Operator : M.PEDRO
 Sample : ccv27b
 Misc : indbm
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:09:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	18.732 E6	0.5	101	0.00
6 tcm Aldrin	24.613	23.778 E6	3.4	96	-0.02
7 tc beta-BHC	11.546	10.639 E6	7.9	92	0.00
8 TC delta-BHC	27.657	24.345 E6	12.0	87	0.00
9 tc Heptachlor E	23.041	21.878 E6	5.0	95	-0.02
11 tc gamma-Chlord	22.791	21.008 E6	7.8	92	-0.02
12 tc alpha-Chlord	22.346	20.594 E6	7.8	92	-0.02
13 tc 4,4'-DDE	22.482	20.627 E6	8.3	91	-0.02
17 tc beta-Endosul	19.657	18.347 E6	6.7	92	-0.02
20 tc Endrin Aldeh	14.779	13.710 E6	7.2	93	-0.03
21 tc Endosulfan S	18.138	16.183 E6	10.8	89	-0.03
24 tc Endrin Keton	20.882	18.739 E6	10.3	89	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	16.985 E6	0.6	101	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	63.592 E6	-4.2	105	-0.02
6 tcm Aldrin	74.947	72.559 E6	3.2	96	-0.03
7 tc beta-BHC	35.673	34.611 E6	3.0	98	-0.01
8 tc delta-BHC	83.093	75.028 E6	9.7	89	-0.02
9 tc Heptachlor E	67.193	63.910 E6	4.9	94	-0.03
11 tc gamma-Chlord	69.724	63.574 E6	8.8	91	-0.03
12 tc alpha-Chlord	66.415	61.359 E6	7.6	92	-0.03
13 tc 4,4'-DDE	65.177	59.435 E6	8.8	90	-0.03
17 tc beta-Endosul	54.846	51.175 E6	6.7	92	-0.03
20 tc Endrin Aldeh	40.233	36.864 E6	8.4	91	-0.04
21 tc Endosulfan S	49.634	44.250 E6	10.8	88	-0.04
24 tc Endrin Keton	54.137	48.675 E6	10.1	89	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	42.420 E6	2.8	98	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex873.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 11:19 am
 Operator : M.PEDRO
 Sample : ccv27b
 Misc : indbm
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:09:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

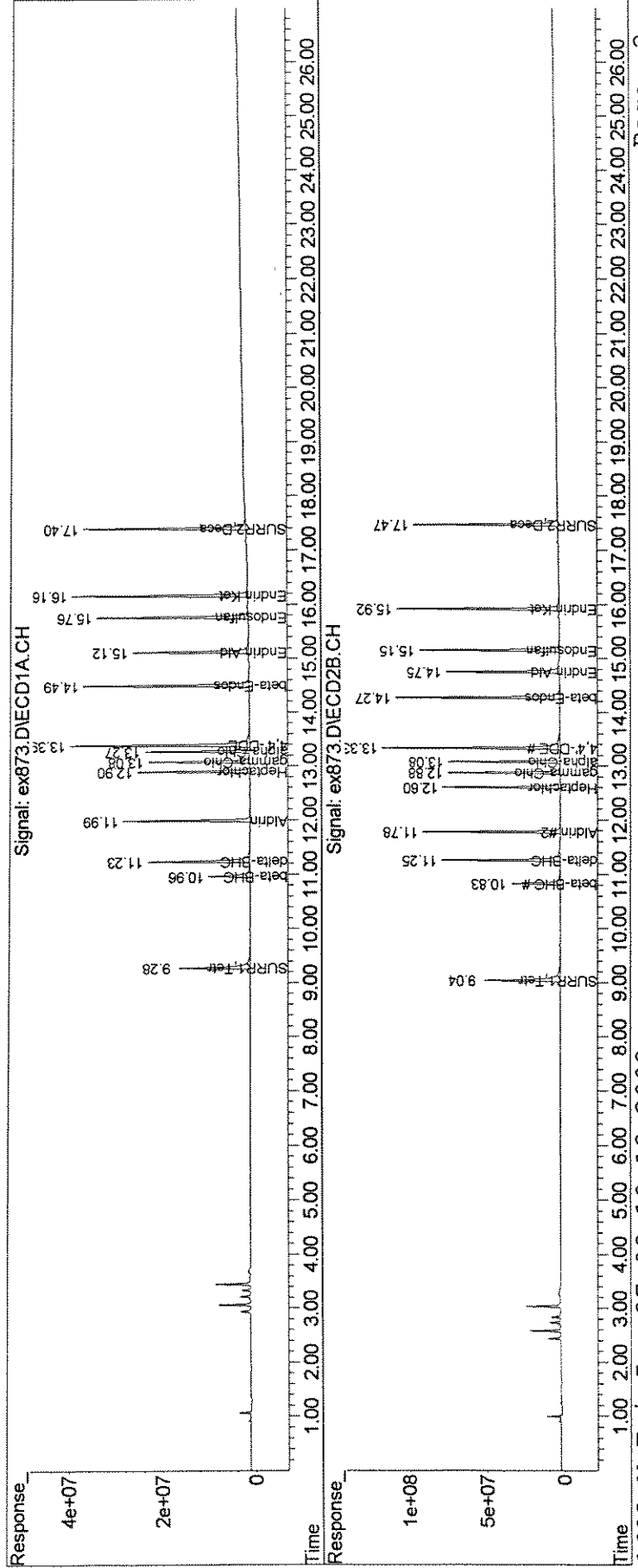
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	374.6E6	1271.8E6	19.892	20.844
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.89%#	20.84%#
25) S SURR2,Decachloro	17.40	17.47	679.4E6	1696.8E6	39.777	38.872
Spiked Amount	100.000	Range 30 - 150	Recovery =		39.78%	38.87%
Target Compounds						
6) tcm Aldrin	11.99	11.78	475.6E6	1451.2E6	19.321	19.363
7) tc beta-BHC	10.96	10.83	212.8E6	692.2E6	18.430	19.405
8) tc delta-BHC	11.23	11.25	486.9E6	1500.6E6	17.605	18.059
9) tc Heptachlor E	12.90	12.60	437.6E6	1278.2E6	18.990	19.023
11) tc gamma-Chlord	13.08	12.88	420.2E6	1271.5E6	18.435	18.236
12) tc alpha-Chlord	13.27	13.08	411.9E6	1227.2E6	18.432	18.477
13) tc 4,4'-DDE	13.39	13.33	825.1E6	2377.4E6	36.701	36.476
17) tc beta-Endosul	14.50	14.27	733.9E6	2047.0E6	37.333	37.323
20) tc Endrin Aldeh	15.12	14.75	548.4E6	1474.6E6	37.109	36.650
21) tc Endosulfan S	15.76	15.15	647.3E6	1770.0E6	35.689	35.661
24) tc Endrin Keton	16.16	15.92	749.6E6	1947.0E6	35.894	35.964
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex873.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 11:19 am
 Operator : M.PEDRO
 Sample : ccv27b
 Misc : indbm
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:09:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex885.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 7:15 pm
 Operator : M.PEDRO
 Sample : ccv28a
 Misc : indam
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:44:42 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	19.084 E6	-1.3	103	0.00
3 tc alpha-BHC	30.031	30.461 E6	-1.4	102	-0.01
4 tcm gamma-BHC (L	27.489	27.515 E6	-0.1	100	-0.02
5 tcm Heptachlor	26.908	27.594 E6	-2.5	103	-0.02
10 tc alpha-Endosu	20.604	20.684 E6	-0.4	101	-0.02
14 tcm Dieldrin	23.283	23.623 E6	-1.5	101	-0.02
15 tcm Endrin	20.860	20.571 E6	1.4	98	-0.03
18 tc 4,4'-DDD	18.810	18.662 E6	0.8	100	-0.02
19 tcm 4,4'-DDT	20.032	18.855 E6	5.9	93	-0.02
22 tc Methoxychlor	9.870	9.428 E6	4.5	95	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	17.380 E6	-1.8	103	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	60.990 E6	0.0	101	-0.02
3 tc alpha-BHC	92.467	94.834 E6	-2.6	102	-0.03
4 tcm gamma-BHC (L	82.157	84.749 E6	-3.2	103	-0.03
5 tcm Heptachlor	79.864	80.806 E6	-1.2	101	-0.03
10 tc alpha-Endosu	59.586	57.049 E6	4.3	95	-0.03
14 tcm Dieldrin	65.254	61.222 E6	6.2	93	-0.04
15 tcm Endrin	56.721	53.848 E6	5.1	94	-0.04
18 tc 4,4'-DDD	51.629	47.279 E6	8.4	91	-0.03
19 tcm 4,4'-DDT	54.800	46.942 E6	14.3	85	-0.03
22 tc Methoxychlor	24.116	22.706 E6	5.8	94	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	40.728 E6	6.7	94	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUADATA\6890D\DATA\062608\
 Data File : ex885.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 7:15 pm
 Operator : M.PEDRO
 Sample : ccv28a
 Misc : indam
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:44:42 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

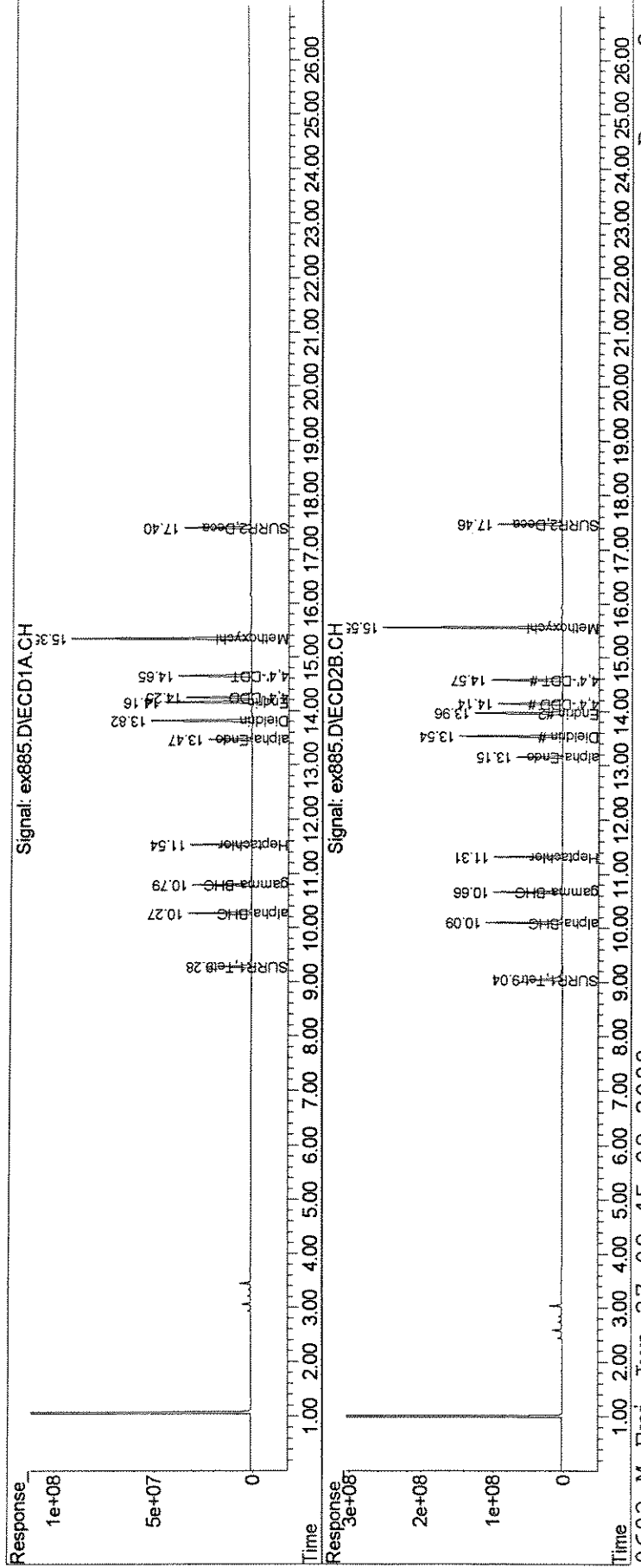
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	381.7E6	1219.8E6	20.266	19.991
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.27%#	19.99%#
25) S SURR2,Decachloro	17.40	17.46	695.2E6	1629.1E6	40.702	37.321
Spiked Amount	100.000	Range	30 - 150	Recovery =	40.70%	37.32%
Target Compounds						
7) tc alpha-BHC	10.27	10.09	609.2E6	1896.7E6	20.286	20.512
8) tcm gamma-BHC (L	10.79	10.66	550.3E6	1695.0E6	20.019	20.631
5) tcm Heptachlor	11.54	11.31	551.9E6	1616.1E6	20.509	20.236
10) tc alpha-Endosu	13.47	13.15	413.7E6	1141.0E6	20.078	19.149
14) tcm Dieldrin	13.82	13.54	944.9E6	2448.9E6	40.584	37.529
15) tcm Endrin	14.16	13.96	822.8E6	2153.9E6	39.446	37.974
18) tc 4,4'-DDD	14.25	14.14	746.5E6	1891.2E6	39.687	36.630
19) tcm 4,4'-DDT	14.65	14.57	754.2E6	1877.7E6	37.650	34.265
22) tc Methoxychlor	15.35	15.55	1885.6E6	4541.2E6	191.051	188.311
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex885.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 7:15 pm
 Operator : M.PEDRO
 Sample : ccv28a
 Misc : indam
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:44:42 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01480

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex886.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 7:51 pm
 Operator : M.PEDRO
 Sample : ccv28b
 Misc : indbm
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:46:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	18.953 E6	-0.6	102	0.00
6 tcm Aldrin	24.613	23.970 E6	2.6	97	-0.02
7 tc beta-BHC	11.546	10.760 E6	6.8	93	0.00
8 TC delta-BHC	27.657	24.279 E6	12.2	86	0.00
9 tc Heptachlor E	23.041	21.999 E6	4.5	96	-0.02
11 tc gamma-Chlord	22.791	20.936 E6	8.1	92	-0.02
12 tc alpha-Chlord	22.346	20.305 E6	9.1	91	-0.02
13 tc 4,4'-DDE	22.482	20.363 E6	9.4	90	-0.02
17 tc beta-Endosul	19.657	18.277 E6	7.0	92	-0.02
20 tc Endrin Aldeh	14.779	14.080 E6	4.7	95	-0.03
21 tc Endosulfan S	18.138	16.016 E6	11.7	88	-0.03
24 tc Endrin Keton	20.882	18.866 E6	9.7	90	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.192 E6	-0.7	102	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	64.233 E6	-5.3	106	-0.01
6 tcm Aldrin	74.947	70.716 E6	5.6	93	-0.03
7 tc beta-BHC	35.673	34.588 E6	3.0	98	-0.01
8 tc delta-BHC	83.093	76.390 E6	8.1	91	-0.02
9 tc Heptachlor E	67.193	61.397 E6	8.6	90	-0.03
11 tc gamma-Chlord	69.724	60.795 E6	12.8	87	-0.03
12 tc alpha-Chlord	66.415	58.530 E6	11.9	88	-0.03
13 tc 4,4'-DDE	65.177	57.364 E6	12.0	87	-0.03
17 tc beta-Endosul	54.846	48.603 E6	11.4	88	-0.03
20 tc Endrin Aldeh	40.233	35.636 E6	11.4	88	-0.04
21 tc Endosulfan S	49.634	41.532 E6	16.3#	83	-0.04
24 tc Endrin Keton	54.137	46.529 E6	14.1	85	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	40.987 E6	6.1	95	-0.04

Data Path : J:\ACQUADATA\6890D\DATA\062608\
 Data File : ex886.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 7:51 pm
 Operator : M.PEDRO
 Sample : ccv28b
 Misc : indbm
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:46:04 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

1) S SURR1,Tetrac	9.28	9.04	379.1E6	1284.7E6	20.127	21.055
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.13%#	21.06%#
25) S SURR2,Decachloro	17.40	17.47	687.7E6	1639.5E6	40.263	37.559
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.26%	37.56%

Target Compounds

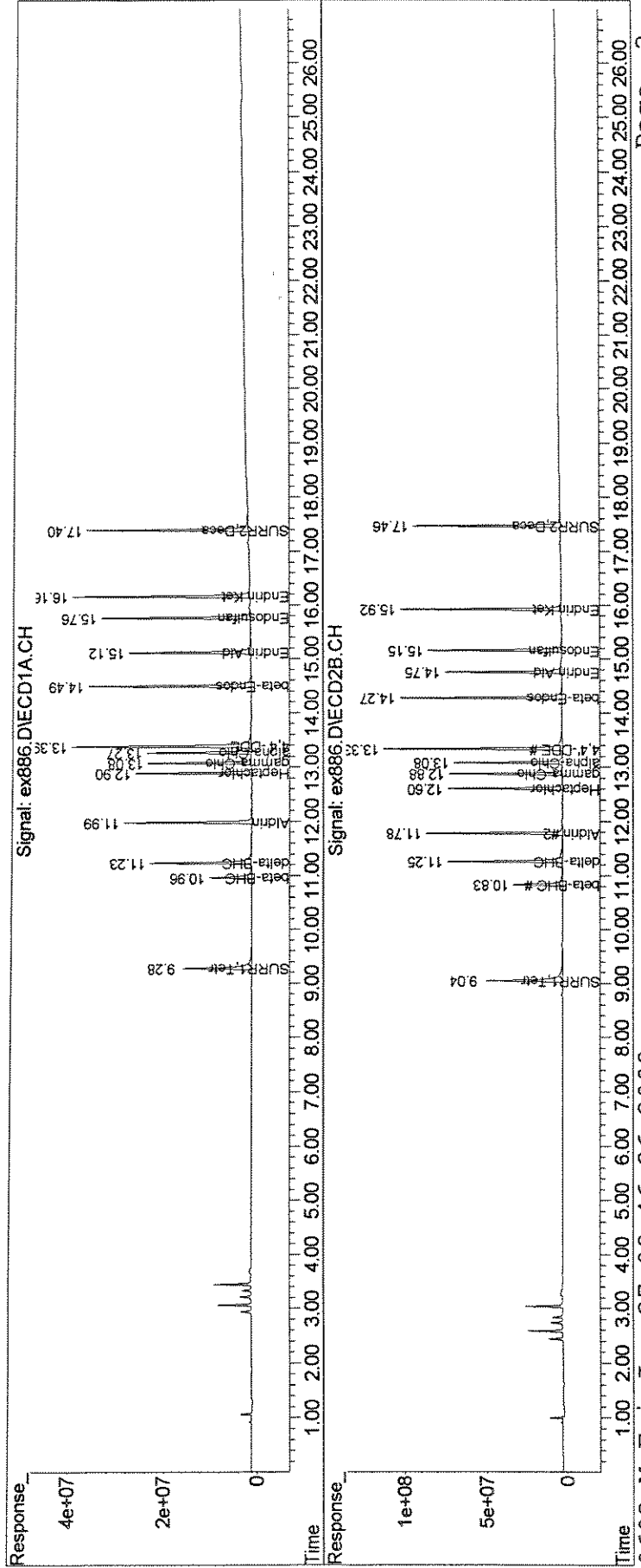
6) tcm Aldrin	11.99	11.78	479.4E6	1414.3E6	19.477	18.871
7) tc beta-BHC	10.96	10.83	215.2E6	691.8E6	18.638	19.392
8) tc delta-BHC	11.23	11.26	485.6E6	1527.8E6	17.558	18.387
9) tc Heptachlor E	12.90	12.60	440.0E6	1227.9E6	19.095	18.275
11) tc gamma-Chlord	13.08	12.88	418.7E6	1215.9E6	18.372	17.439
12) tc alpha-Chlord	13.27	13.08	406.1E6	1170.6E6	18.173	17.626
13) tc 4,4'-DDE	13.39	13.33	814.5E6	2294.6E6	36.230	35.205
17) tc beta-Endosul	14.49	14.27	731.1E6	1944.1E6	37.192	35.447
20) tc Endrin Aldeh	15.12	14.75	563.2E6	1425.4E6	38.108	35.429
21) tc Endosulfan S	15.76	15.15	640.6E6	1661.3E6	35.321	33.470
24) tc Endrin Keton	16.16	15.92	754.6E6	1861.2E6	36.137	34.379
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex886.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 7:51 pm
 Operator : M.PEDRO
 Sample : ccv28b
 Misc : indbm
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:46:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex897.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 2:22 am
 Operator : M.PEDRO
 Sample : ccv29a
 Misc : indam
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 10:13:42 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	18.893 E6	-0.3	102	0.00
3 tc alpha-BHC	30.031	30.103 E6	-0.2	100	-0.01
4 tcm gamma-BHC (L	27.489	27.160 E6	1.2	99	-0.02
5 tcm Heptachlor	26.908	27.438 E6	-2.0	102	-0.02
10 tc alpha-Endosu	20.604	20.499 E6	0.5	100	-0.02
14 tcm Dieldrin	23.283	23.392 E6	-0.5	100	-0.03
15 tcm Endrin	20.860	20.378 E6	2.3	97	-0.03
18 tc 4,4'-DDD	18.810	18.431 E6	2.0	98	-0.02
19 tcm 4,4'-DDT	20.032	18.922 E6	5.5	94	-0.02
22 tc Methoxychlor	9.870	9.417 E6	4.6	95	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	18.035 E6	-5.6	107	-0.03

*W
W/D*

Signal #2

1 S SURR1,Tetrac	61.016	60.685 E6	0.5	100	-0.01
3 tc alpha-BHC	92.467	94.971 E6	-2.7	102	-0.03
4 tcm gamma-BHC (L	82.157	84.734 E6	-3.1	103	-0.03
5 tcm Heptachlor	79.864	81.395 E6	-1.9	101	-0.03
10 tc alpha-Endosu	59.586	57.951 E6	2.7	97	-0.04
14 tcm Dieldrin	65.254	63.629 E6	2.5	96	-0.04
15 tcm Endrin	56.721	56.012 E6	1.2	98	-0.04
18 tc 4,4'-DDD	51.629	49.168 E6	4.8	94	-0.03
19 tcm 4,4'-DDT	54.800	48.734 E6	11.1	88	-0.04
22 tc Methoxychlor	24.116	22.675 E6	6.0	94	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	40.586 E6	7.0	94	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUADATA\6890D\DATA\062608\
 Data File : ex897.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 2:22 am
 Operator : M.PEDRO
 Sample : ccv29a
 Misc : indam
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 10:13:42 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	377.9E6	1213.7E6	20.064	19.892
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.06%#	19.89%#
25) S SURR2,Decachloro	17.40	17.46	721.4E6	1623.4E6	42.236	37.191
Spiked Amount	100.000	Range 30 - 150	Recovery =		42.24%	37.19%
Target Compounds						
3) tc alpha-BHC	10.27	10.09	602.1E6	1899.4E6	20.048	20.542
4) tcm gamma-BHC (L)	10.79	10.66	543.2E6	1694.7E6	19.761	20.627
5) tcm Heptachlor	11.53	11.31	548.8E6	1627.9E6	20.393	20.383
10) tc alpha-Endosu	13.47	13.15	410.0E6	1159.0E6	19.898	19.451
14) tcm Dieldrin	13.82	13.53	935.7E6	2545.2E6	40.187	39.004
15) tcm Endrin	14.16	13.96	815.1E6	2240.5E6	39.076	39.500
18) tc 4,4'-DDD	14.25	14.14	737.2E6	1966.7E6	39.195	38.094
19) tcm 4,4'-DDT	14.65	14.57	756.9E6	1949.4E6	37.785	35.573
22) tc Methoxychlor	15.34	15.55	1883.4E6	4534.9E6	190.825	188.048
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

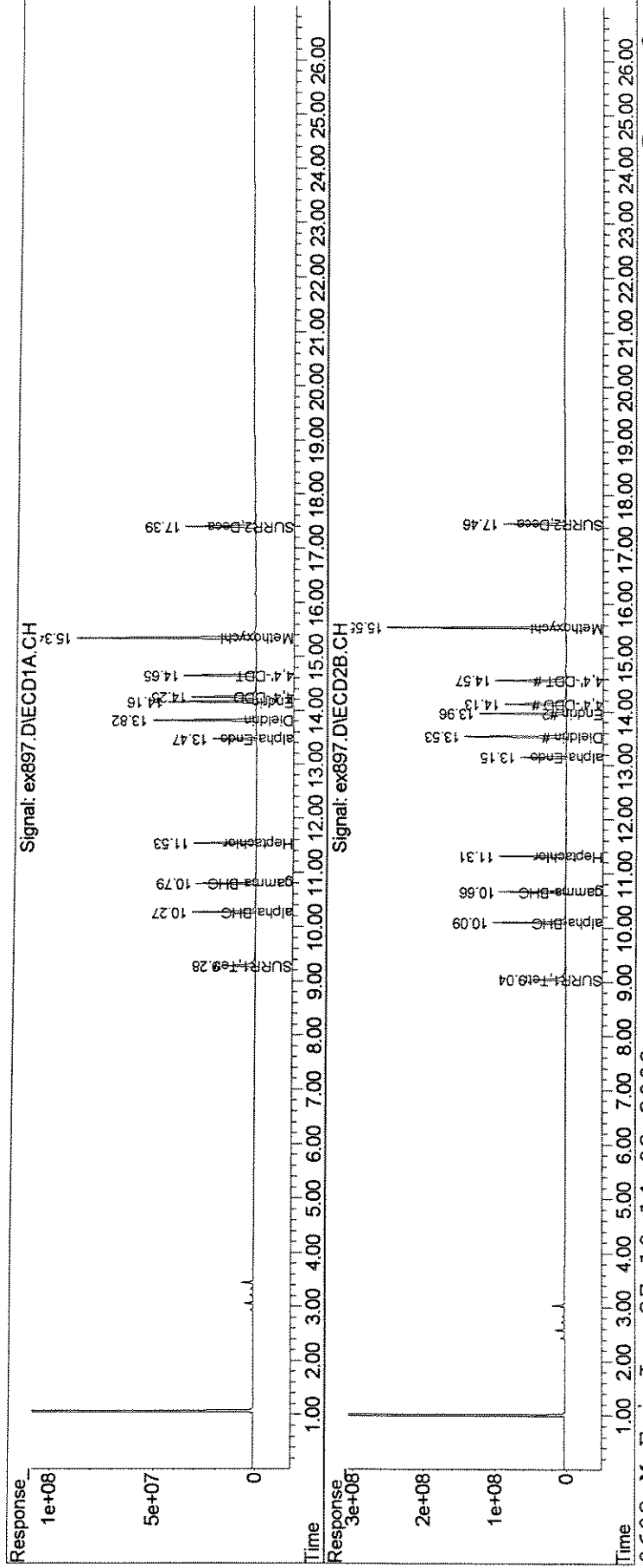
250
4/27

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex897.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 2:22 am
Operator : M.PEDRO
Sample : ccv29a
Misc : indam
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 10:13:42 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



51505

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex898.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 2:58 am
 Operator : M.PEDRO
 Sample : ccv29b
 Misc : indbm
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 10:14:40 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1,Tetrac	18.833	18.719 E6	0.6	101	0.00
6 tcm Aldrin	24.613	23.748 E6	3.5	96	-0.02
7 tc beta-BHC	11.546	10.600 E6	8.2	92	0.00
8 TC delta-BHC	27.657	23.825 E6	13.9	85	0.00
9 tc Heptachlor E	23.041	21.869 E6	5.1	95	-0.02
11 tc gamma-Chlord	22.791	20.928 E6	8.2	92	-0.02
12 tc alpha-Chlord	22.346	20.142 E6	9.9	90	-0.02
13 tc 4,4'-DDE	22.482	20.489 E6	8.9	90	-0.02
17 tc beta-Endosul	19.657	18.051 E6	8.2	91	-0.02
20 tc Endrin Aldeh	14.779	14.059 E6	4.9	95	-0.03
21 tc Endosulfan S	18.138	16.054 E6	11.5	88	-0.03
24 tc Endrin Keton	20.882	19.014 E6	8.9	91	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.012 E6	0.4	101	-0.02

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Signal #2

1 S SURR1,Tetrac	61.016	64.046 E6	-5.0	106	-0.01
6 tcm Aldrin	74.947	71.134 E6	5.1	94	-0.03
7 tc beta-BHC	35.673	34.577 E6	3.1	98	-0.01
8 tc delta-BHC	83.093	76.445 E6	8.0	91	-0.02
9 tc Heptachlor E	67.193	61.958 E6	7.8	91	-0.03
11 tc gamma-Chlord	69.724	61.372 E6	12.0	87	-0.03
12 tc alpha-Chlord	66.415	59.446 E6	10.5	89	-0.03
13 tc 4,4'-DDE	65.177	57.819 E6	11.3	88	-0.03
17 tc beta-Endosul	54.846	49.172 E6	10.3	89	-0.04
20 tc Endrin Aldeh	40.233	36.291 E6	9.8	89	-0.04
21 tc Endosulfan S	49.634	42.378 E6	14.6	85	-0.04
24 tc Endrin Keton	54.137	47.396 E6	12.5	87	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	41.463 E6	5.0	96	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex898.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 2:58 am
 Operator : M.PEDRO
 Sample : ccv29b
 Misc : indbm
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 10:14:40 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

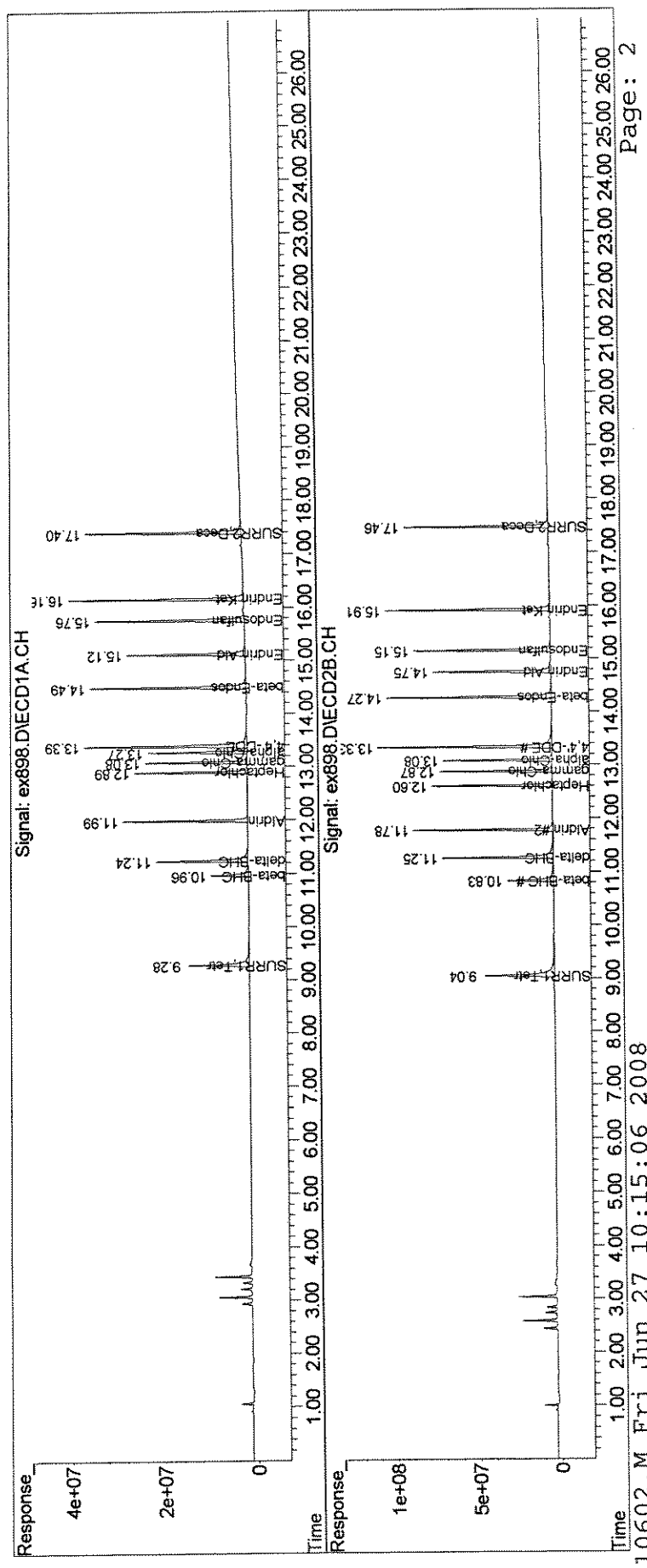
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	374.4E6	1280.9E6	19.878	20.993 <i>ml</i>
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.88%#	20.99%#
25) S SURR2,Decachloro	17.40	17.46	680.5E6	1658.5E6	39.841	37.995
Spiked Amount	100.000	Range 30 - 150	Recovery =		39.84%	37.99%
Target Compounds						
6) tcm Aldrin	11.99	11.78	475.0E6	1422.7E6	19.297	18.983
7) tc beta-BHC	10.96	10.83	212.0E6	691.5E6	18.362	19.385
8) tc delta-BHC	11.24	11.26	476.5E6	1528.9E6	17.229	18.400
9) tc Heptachlor E	12.89	12.60	437.4E6	1239.2E6	18.982	18.442
11) tc gamma-Chlord	13.08	12.87	418.6E6	1227.4E6	18.365	17.604
12) tc alpha-Chlord	13.27	13.08	402.8E6	1188.9E6	18.028	17.901
13) tc 4,4'-DDE	13.39	13.33	819.6E6	2312.8E6	36.454	35.484
17) tc beta-Endosul	14.49	14.27	722.0E6	1966.9E6	36.731	35.862
20) tc Endrin Aldeh	15.12	14.75	562.4E6	1451.6E6	38.053	36.080
21) tc Endosulfan S	15.76	15.15	642.2E6	1695.1E6	35.406	34.152
24) tc Endrin Keton	16.16	15.91	760.5E6	1895.8E6	36.421	35.020
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex898.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 2:58 am
Operator : M.PEDRO
Sample : ccv29b
Misc : indbm
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 10:14:40 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex906.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:39 am
 Operator : M.PEDRO
 Sample : ccv30a
 Misc : indam
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:26:48 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	19.042 E6	-1.1	103	0.00
3 tc alpha-BHC	30.031	30.161 E6	-0.4	101	-0.01
4 tcm gamma-BHC (L	27.489	27.374 E6	0.4	100	-0.01
5 tcm Heptachlor	26.908	27.736 E6	-3.1	103	-0.02
10 tc alpha-Endosu	20.604	20.961 E6	-1.7	103	-0.02
14 tcm Dieldrin	23.283	23.920 E6	-2.7	102	-0.02
15 tcm Endrin	20.860	20.557 E6	1.5	98	-0.02
18 tc 4,4'-DDD	18.810	18.532 E6	1.5	99	-0.01
19 tcm 4,4'-DDT	20.032	19.350 E6	3.4	96	-0.02
22 tc Methoxychlor	9.870	9.820 E6	0.5	99	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	17.227 E6	-0.9	102	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	61.562 E6	-0.9	102	0.00
3 tc alpha-BHC	92.467	97.530 E6	-5.5	105	-0.02
4 tcm gamma-BHC (L	82.157	86.948 E6	-5.8	106	-0.02
5 tcm Heptachlor	79.864	83.426 E6	-4.5	104	-0.03
10 tc alpha-Endosu	59.586	60.283 E6	-1.2	101	-0.03
14 tcm Dieldrin	65.254	66.351 E6	-1.7	100	-0.04
15 tcm Endrin	56.721	57.831 E6	-2.0	101	-0.04
18 tc 4,4'-DDD	51.629	50.711 E6	1.8	97	-0.03
19 tcm 4,4'-DDT	54.800	51.319 E6	6.4	93	-0.03
22 tc Methoxychlor	24.116	23.414 E6	2.9	97	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	42.433 E6	2.8	98	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex906.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:39 am
 Operator : M.PEDRO
 Sample : ccv30a
 Misc : indam
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:26:48 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

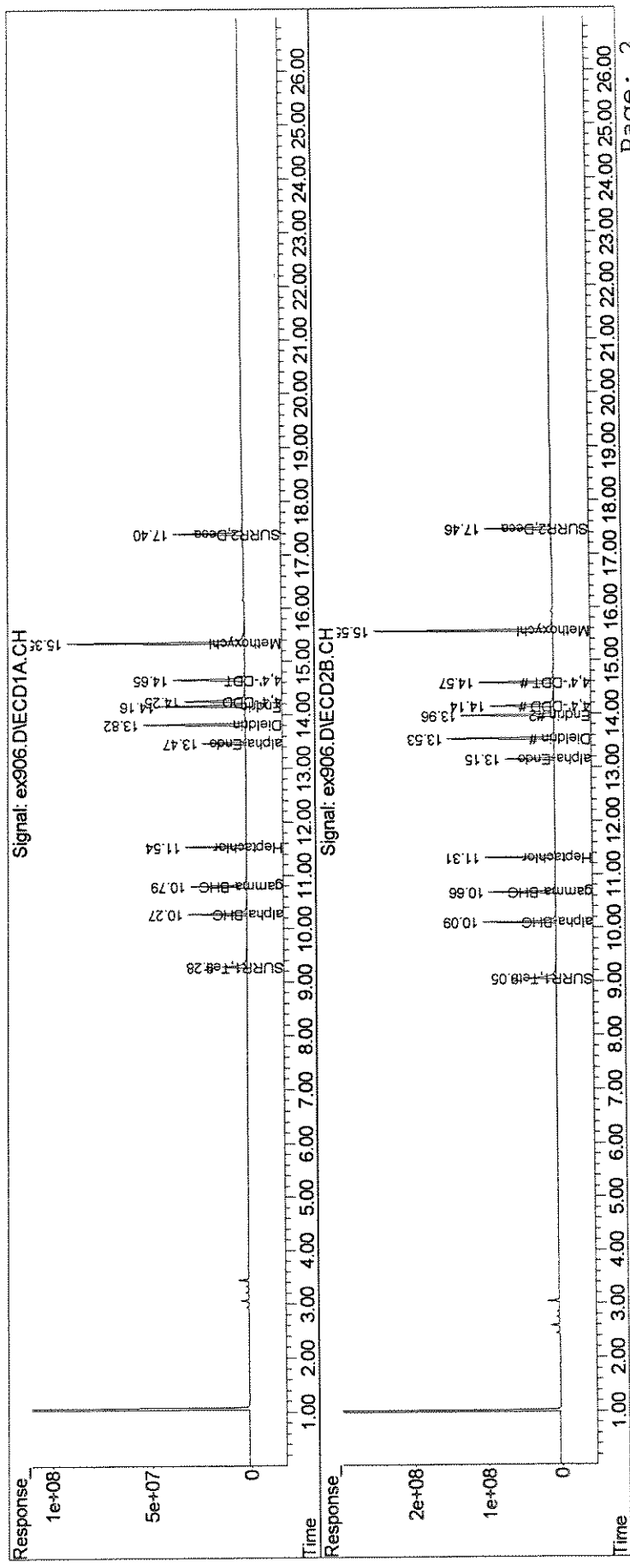
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.05	380.8E6	1231.2E6	20.221	20.179 ^{wp} 7/1
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.22%#	20.18%#
25) S SURR2,Decachloro	17.40	17.46	689.1E6	1697.3E6	40.342	38.884
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.34%	38.88%
Target Compounds						
3) tc alpha-BHC	10.27	10.10	603.2E6	1950.6E6	20.087	21.095
tc gamma-BHC (L	10.79	10.66	547.5E6	1739.0E6	19.916	21.166
5) tcm Heptachlor	11.54	11.31	554.7E6	1668.5E6	20.615	20.892
10) tc alpha-Endosu	13.47	13.15	419.2E6	1205.7E6	20.347	20.234
14) tcm Dieldrin	13.82	13.53	956.8E6	2654.0E6	41.095	40.672
15) tcm Endrin	14.16	13.96	822.3E6	2313.3E6	39.419	40.783
18) tc 4,4'-DDD	14.25	14.14	741.3E6	2028.4E6	39.410	39.289
19) tcm 4,4'-DDT	14.65	14.58	774.0E6	2052.7E6	38.639	37.459
22) tc Methoxychlor	15.35	15.55	1964.1E6	4682.8E6	199.001	194.182m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex906.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:39 am
 Operator : M.PEDRO
 Sample : ccv30a
 Misc : indam
 ALS Vial : 2 Sample Multiplier: 1
 Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:26:48 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



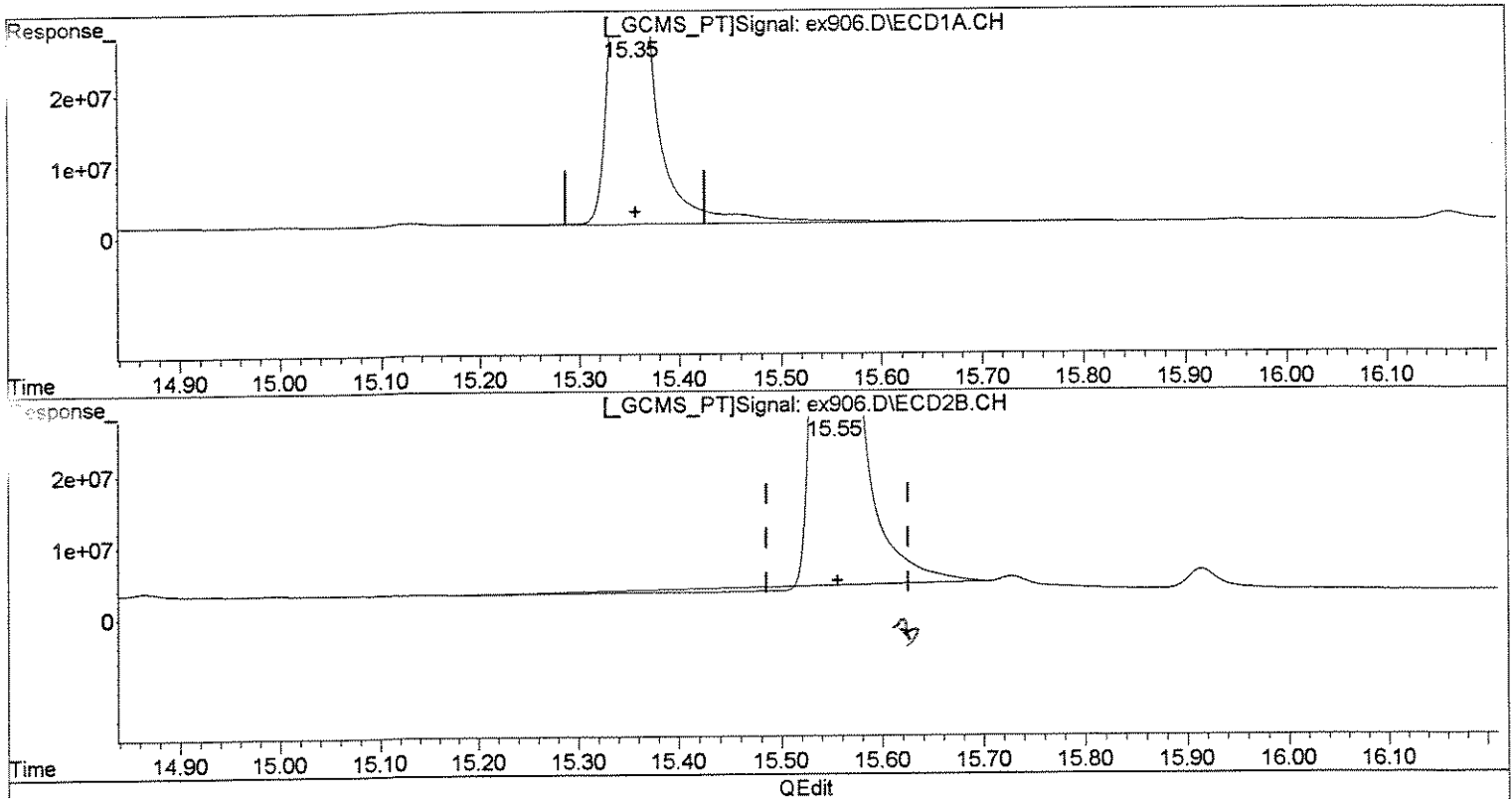
81581

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:39 am
Operator : M.PEDRO
Sample : ccv30a
Misc : indam
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:04:42 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)
15.35min 199.001ug/l
response 1964097855

(22) Methoxychlor #2 (tc)
15.55min 189.167ug/l
response 4561902858

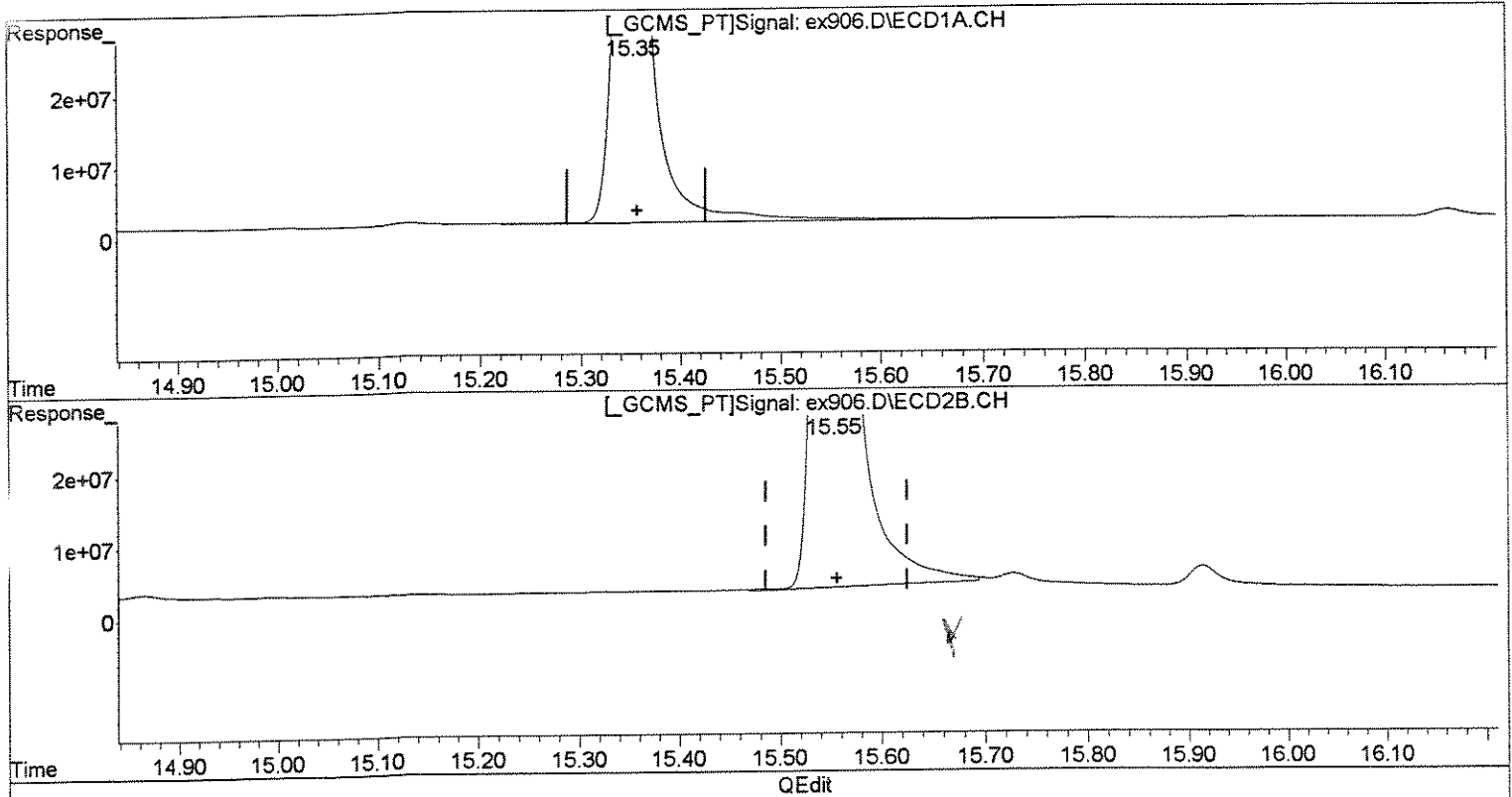
Busch

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:39 am
Operator : M.PEDRO
Sample : ccv30a
Misc : indam
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:04:42 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)
15.35min 199.001ug/l
response 1964097855

(22) Methoxychlor #2 (tc)
15.55min 194.182ug/l m
response 4682821715

max 7/1
4682821715

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex907.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:15 am
 Operator : M.PEDRO
 Sample : ccv30b
 Misc : indbm
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:27:43 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	18.578 E6	1.4	100	0.00
6 tcm Aldrin	24.613	23.582 E6	4.2	95	-0.02
7 tc beta-BHC	11.546	10.622 E6	8.0	92	0.00
8 TC delta-BHC	27.657	23.920 E6	13.5	85	0.00
9 tc Heptachlor E	23.041	21.774 E6	5.5	95	-0.02
11 tc gamma-Chlord	22.791	20.922 E6	8.2	92	-0.02
12 tc alpha-Chlord	22.346	20.510 E6	8.2	92	-0.02
13 tc 4,4'-DDE	22.482	20.164 E6	10.3	89	-0.01
17 tc beta-Endosul	19.657	18.441 E6	6.2	93	-0.02
20 tc Endrin Aldeh	14.779	13.900 E6	5.9	94	-0.03
21 tc Endosulfan S	18.138	15.858 E6	12.6	87	-0.03
24 tc Endrin Keton	20.882	18.894 E6	9.5	90	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.049 E6	0.2	101	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	64.323 E6	-5.4	106	0.00
6 tcm Aldrin	74.947	72.904 E6	2.7	96	-0.03
7 tc beta-BHC	35.673	34.858 E6	2.3	99	0.00
8 tc delta-BHC	83.093	75.993 E6	8.5	90	-0.01
9 tc Heptachlor E	67.193	63.331 E6	5.7	93	-0.04
11 tc gamma-Chlord	69.724	62.815 E6	9.9	90	-0.03
12 tc alpha-Chlord	66.415	61.058 E6	8.1	92	-0.03
13 tc 4,4'-DDE	65.177	58.534 E6	10.2	89	-0.03
17 tc beta-Endosul	54.846	50.255 E6	8.4	91	-0.04
20 tc Endrin Aldeh	40.233	36.523 E6	9.2	90	-0.04
21 tc Endosulfan S	49.634	43.121 E6	13.1	86	-0.04
24 tc Endrin Keton	54.137	48.271 E6	10.8	88	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	42.324 E6	3.0	98	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex907.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:15 am
 Operator : M.PEDRO
 Sample : ccv30b
 Misc : indbm
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:27:43 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

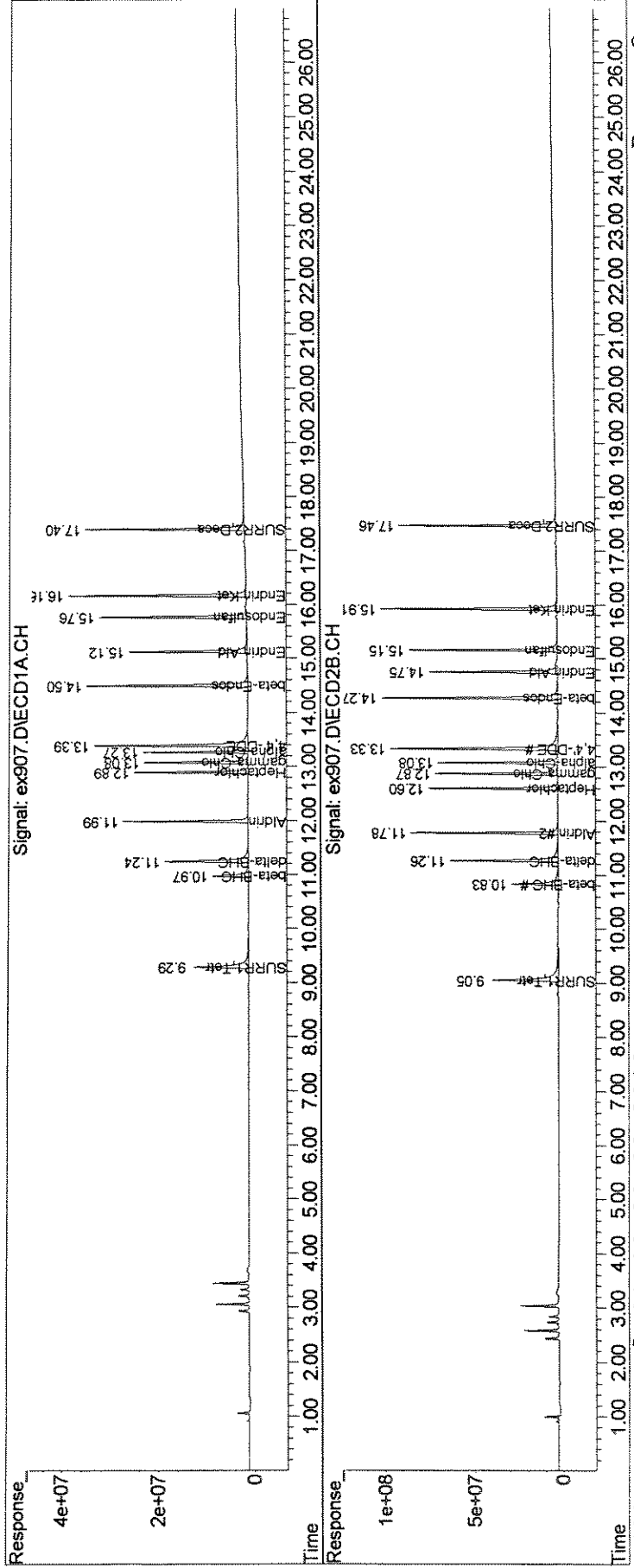
System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.05	371.6E6	1286.5E6	19.729	21.084
Spiked Amount	100.000	Range	30 - 150	Recovery =	19.73%#	21.08%#
25) S SURR2,Decachloro	17.40	17.46	682.0E6	1693.0E6	39.928	38.784
Spiked Amount	100.000	Range	30 - 150	Recovery =	39.93%	38.78%
Target Compounds						
6) tcm Aldrin	11.99	11.78	471.6E6	1458.1E6	19.162	19.455
7) tc beta-BHC	10.97	10.83	212.4E6	697.2E6	18.399	19.543
8) tc delta-BHC	11.24	11.26	478.4E6	1519.9E6	17.298	18.291
9) tc Heptachlor E	12.90	12.60	435.5E6	1266.6E6	18.900	18.851
11) tc gamma-Chlord	13.08	12.87	418.4E6	1256.3E6	18.360	18.018
12) tc alpha-Chlord	13.27	13.08	410.2E6	1221.2E6	18.356	18.387
13) tc 4,4'-DDE	13.39	13.33	806.5E6	2341.3E6	35.876	35.923
17) tc beta-Endosul	14.50	14.27	737.6E6	2010.2E6	37.525	36.652
20) tc Endrin Aldeh	15.12	14.75	556.0E6	1460.9E6	37.621	36.312
21) tc Endosulfan S	15.76	15.15	634.3E6	1724.8E6	34.973	34.751
24) tc Endrin Keton	16.16	15.91	755.8E6	1930.8E6	36.192	35.666
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:15 am
Operator : M.PEDRO
Sample : ccv30b
Misc : indbm
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 09:27:43 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01596

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex917.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 3:27 pm
 Operator : M.PEDRO
 Sample : ccv31a
 Misc : indam
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:50:43 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	19.814 E6	-5.2	107	0.00
3 tc alpha-BHC	30.031	31.240 E6	-4.0	104	-0.01
4 tcm gamma-BHC (L	27.489	28.168 E6	-2.5	103	-0.01
5 tcm Heptachlor	26.908	28.727 E6	-6.8	107	-0.02
10 tc alpha-Endosu	20.604	21.610 E6	-4.9	106	-0.02
14 tcm Dieldrin	23.283	24.604 E6	-5.7	105	-0.03
15 tcm Endrin	20.860	21.225 E6	-1.7	101	-0.03
18 tc 4,4'-DDD	18.810	19.104 E6	-1.6	102	-0.02
19 tcm 4,4'-DDT	20.032	19.969 E6	0.3	99	-0.02
22 tc Methoxychlor	9.870	10.229 E6	-3.6	103	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	17.959 E6	-5.1	107	-0.03

Signal #2

1 S SURR1,Tetrac	61.016	64.067 E6	-5.0	106	0.00
3 tc alpha-BHC	92.467	100.683 E6	-8.9	108	-0.02
4 tcm gamma-BHC (L	82.157	90.735 E6	-10.4	111	-0.03
5 tcm Heptachlor	79.864	87.574 E6	-9.7	109	-0.03
10 tc alpha-Endosu	59.586	62.519 E6	-4.9	104	-0.04
14 tcm Dieldrin	65.254	68.638 E6	-5.2	104	-0.04
15 tcm Endrin	56.721	60.150 E6	-6.0	105	-0.04
18 tc 4,4'-DDD	51.629	52.731 E6	-2.1	101	-0.03
19 tcm 4,4'-DDT	54.800	53.728 E6	2.0	97	-0.04
22 tc Methoxychlor	24.116	24.418 E6	-1.3	101	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	44.127 E6	-1.1	102	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : ex917.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 3:27 pm
 Operator : M.PEDRO
 Sample : ccv31a
 Misc : indam
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:50:43 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

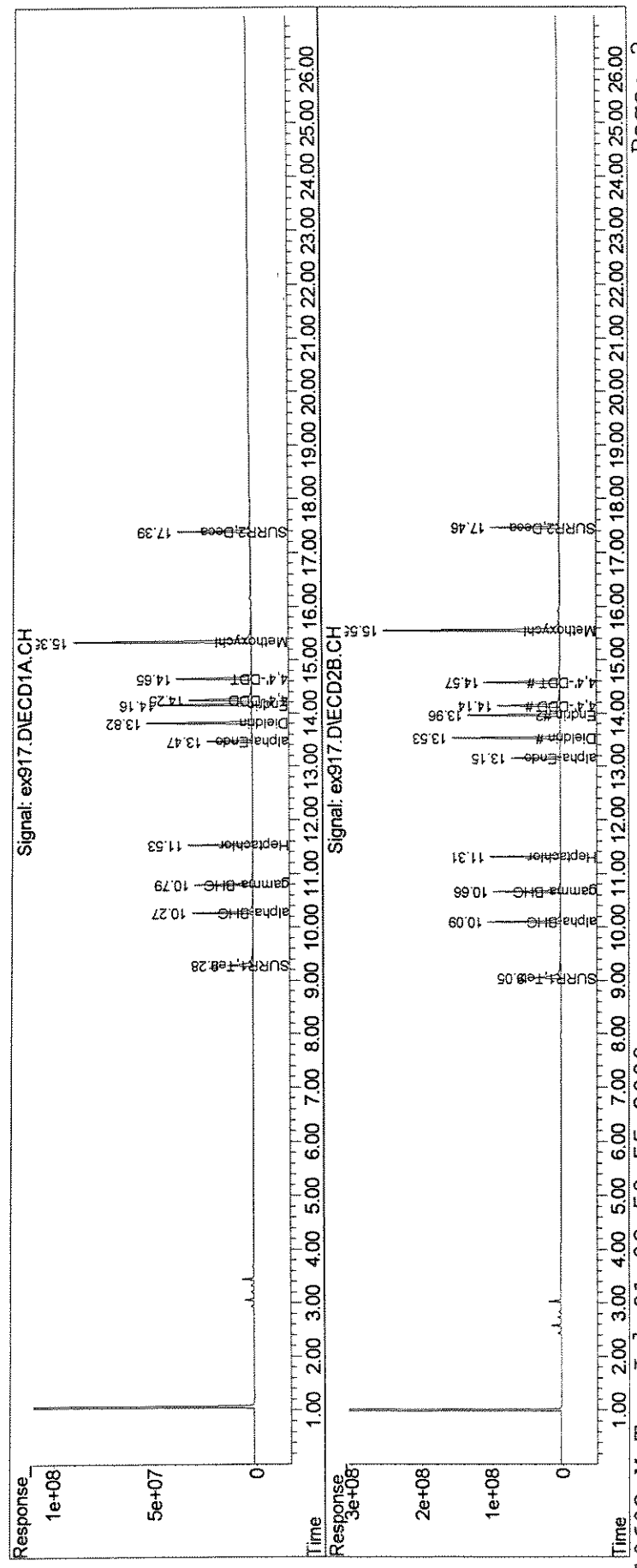
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.05	396.3E6	1281.3E6	21.041	21.000
Spiked Amount	100.000	Range	30 - 150	Recovery	= 21.04%#	21.00%#
25) S SURR2,Decachloro	17.39	17.46	718.4E6	1765.1E6	42.058	40.437
Spiked Amount	100.000	Range	30 - 150	Recovery	= 42.06%	40.44%
Target Compounds						
3) tc alpha-BHC	10.27	10.09	624.8E6	2013.7E6	20.805	21.777
4) tcm gamma-BHC (L	10.79	10.66	563.4E6	1814.7E6	20.494	22.088
5) tcm Heptachlor	11.54	11.31	574.5E6	1751.5E6	21.352	21.931
10) tc alpha-Endosu	13.47	13.15	432.2E6	1250.4E6	20.977	20.984
14) tcm Dieldrin	13.82	13.53	984.2E6	2745.5E6	42.269	42.074
15) tcm Endrin	14.16	13.96	849.0E6	2406.0E6	40.701	42.418
18) tc 4,4'-DDD	14.25	14.14	764.1E6	2109.2E6	40.625	40.854
19) tcm 4,4'-DDT	14.65	14.57	798.7E6	2149.1E6	39.874	39.217
22) tc Methoxychlor	15.35	15.55	2045.7E6	4883.7E6	207.273	202.511m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex917.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 3:27 pm
 Operator : M.PEDRO
 Sample : ccv31a
 Misc : indam
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:50:43 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



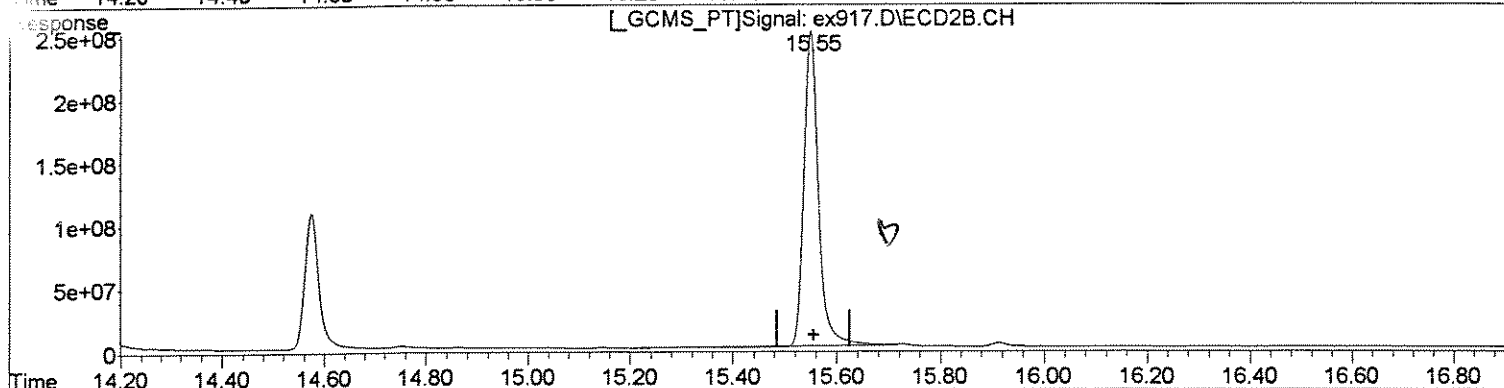
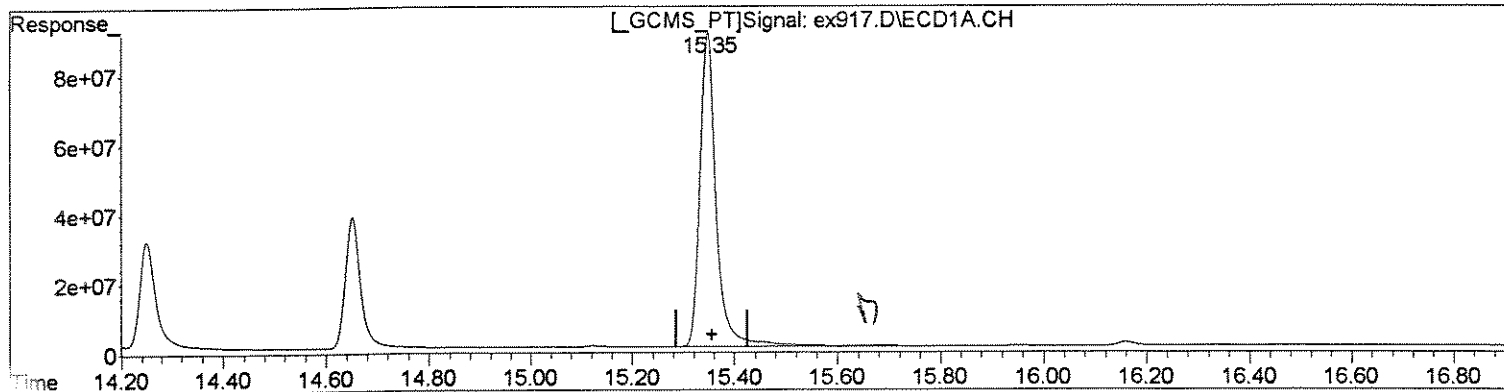
01509

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 3:27 pm
Operator : M.PEDRO
Sample : ccv31a
Misc : indam
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:01 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)
15.35min 207.273ug/l
response 2045744908

(22) Methoxychlor #2 (tc)
15.55min 196.935ug/l
response 4749218168

Duplicate

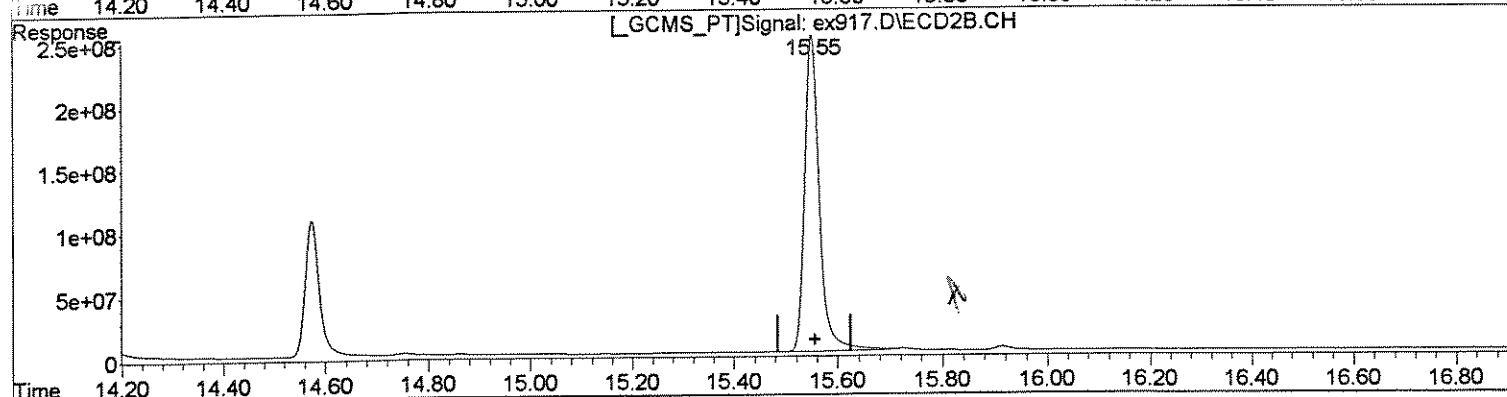
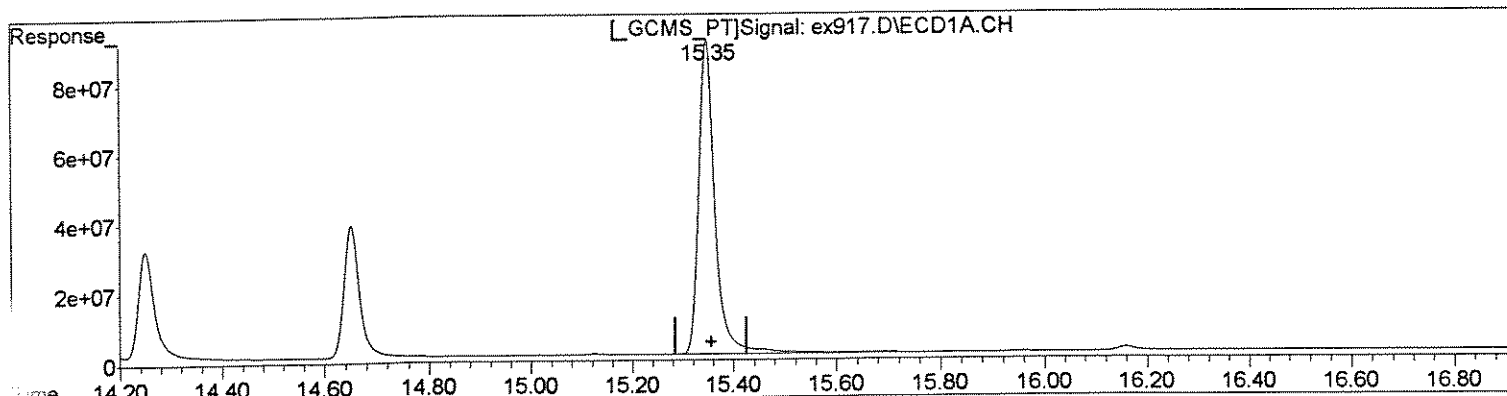
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 3:27 pm
Operator : M.PEDRO
Sample : ccv31a
Misc : indam
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:01 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)
15.35min 207.273ug/l
response 2045744908

(22) Methoxychlor #2 (tc)
15.55min 202.511ug/l m
response 4883698308

Handwritten notes:
7/1
7/1

Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : ex918.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 4:02 pm
 Operator : M.PEDRO
 Sample : ccv31b
 Misc : indbm
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:51:51 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1,Tetrac	18.833	19.476 E6	-3.4	105	0.00
6 tcm Aldrin	24.613	24.634 E6	-0.1	100	-0.02
7 tc beta-BHC	11.546	11.097 E6	3.9	96	0.00
8 TC delta-BHC	27.657	25.187 E6	8.9	90	0.00
9 tc Heptachlor E	23.041	22.692 E6	1.5	99	-0.02
11 tc gamma-Chlord	22.791	21.763 E6	4.5	96	-0.02
12 tc alpha-Chlord	22.346	21.307 E6	4.6	96	-0.02
13 tc 4,4'-DDE	22.482	21.064 E6	6.3	93	-0.01
17 tc beta-Endosul	19.657	19.118 E6	2.7	96	-0.02
20 tc Endrin Aldeh	14.779	14.550 E6	1.5	98	-0.03
21 tc Endosulfan S	18.138	16.663 E6	8.1	91	-0.03
24 tc Endrin Keton	20.882	19.756 E6	5.4	94	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.807 E6	-4.3	106	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	67.645 E6	-10.9	112	0.00
6 tcm Aldrin	74.947	76.459 E6	-2.0	101	-0.03
7 tc beta-BHC	35.673	36.540 E6	-2.4	103	0.00
8 tc delta-BHC	83.093	80.182 E6	3.5	95	-0.01
9 tc Heptachlor E	67.193	66.207 E6	1.5	98	-0.04
11 tc gamma-Chlord	69.724	65.650 E6	5.8	94	-0.03
12 tc alpha-Chlord	66.415	63.950 E6	3.7	96	-0.04
13 tc 4,4'-DDE	65.177	61.514 E6	5.6	93	-0.03
17 tc beta-Endosul	54.846	52.389 E6	4.5	94	-0.04
20 tc Endrin Aldeh	40.233	38.427 E6	4.5	94	-0.04
21 tc Endosulfan S	49.634	45.294 E6	8.7	90	-0.04
24 tc Endrin Keton	54.137	50.607 E6	6.5	93	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	43.791 E6	-0.3	101	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex918.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 4:02 pm
 Operator : M.PEDRO
 Sample : ccv31b
 Misc : indbm
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:51:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.05	389.5E6	1352.9E6	20.682	22.173
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.68%#	22.17%#
25) S SURR2,Decachloro	17.40	17.46	712.3E6	1751.7E6	41.703	40.129
Spiked Amount	100.000	Range	30 - 150	Recovery =	41.70%	40.13%
Target Compounds						
6) tcm Aldrin	11.99	11.78	492.7E6	1529.2E6	20.017	20.403
7) tc beta-BHC	10.97	10.83	221.9E6	730.8E6	19.223	20.486
8) tc delta-BHC	11.24	11.26	503.7E6	1603.6E6	18.214	19.299
9) tc Heptachlor E	12.89	12.60	453.8E6	1324.1E6	19.697	19.706
11) tc gamma-Chlord	13.08	12.87	435.3E6	1313.0E6	19.098	18.832
12) tc alpha-Chlord	13.27	13.08	426.1E6	1279.0E6	19.070	19.258
13) tc 4,4'-DDE	13.39	13.33	842.6E6	2460.6E6	37.478	37.752
17) tc beta-Endosul	14.49	14.27	764.7E6	2095.6E6	38.903	38.208
20) tc Endrin Aldehy	15.12	14.75	582.0E6	1537.1E6	39.380	38.204
21) tc Endosulfan S	15.76	15.15	666.5E6	1811.7E6	36.747	36.502
24) tc Endrin Keton	16.16	15.91	790.3E6	2024.3E6	37.844	37.392
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

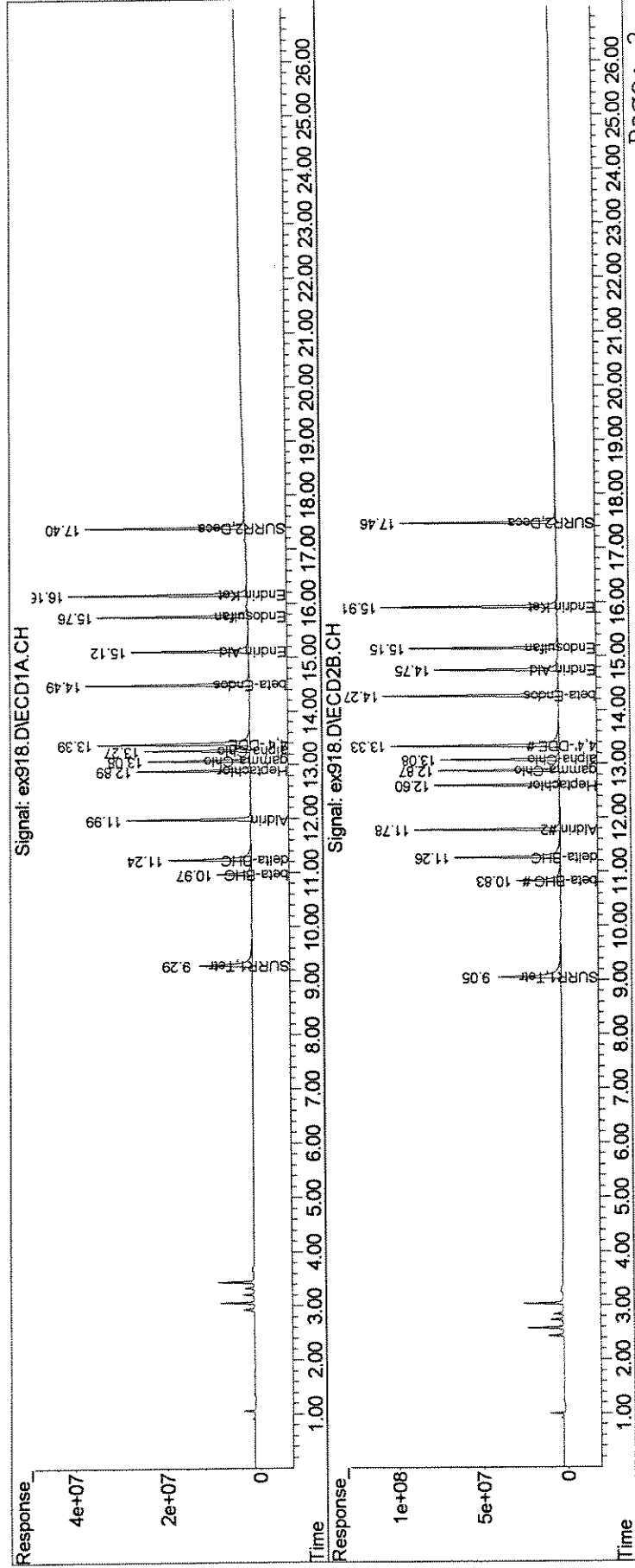
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 4:02 pm
Operator : M.PEDRO
Sample : ccv31b
Misc : indbm
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 09:51:51 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex929.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 10:33 pm
 Operator : M.PEDRO
 Sample : ccv32a
 Misc : indam
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:20:31 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	19.682 E6	-4.5	106	0.00
3 tc alpha-BHC	30.031	30.820 E6	-2.6	103	0.00
4 tcm gamma-BHC (L	27.489	27.820 E6	-1.2	101	-0.01
5 tcm Heptachlor	26.908	28.341 E6	-5.3	106	-0.02
10 tc alpha-Endosu	20.604	21.468 E6	-4.2	105	-0.02
14 tcm Dieldrin	23.283	24.392 E6	-4.8	104	-0.03
15 tcm Endrin	20.860	21.015 E6	-0.7	100	-0.03
18 tc 4,4'-DDD	18.810	18.966 E6	-0.8	101	-0.01
19 tcm 4,4'-DDT	20.032	19.470 E6	2.8	97	-0.02
22 tc Methoxychlor	9.870	10.102 E6	-2.4	102	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	17.873 E6	-4.6	106	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	62.109 E6	-1.8	102	0.00
3 tc alpha-BHC	92.467	97.007 E6	-4.9	105	-0.02
4 tcm gamma-BHC (L	82.157	86.730 E6	-5.6	106	-0.02
5 tcm Heptachlor	79.864	84.578 E6	-5.9	105	-0.03
10 tc alpha-Endosu	59.586	59.460 E6	0.2	99	-0.04
14 tcm Dieldrin	65.254	65.471 E6	-0.3	99	-0.04
15 tcm Endrin	56.721	57.135 E6	-0.7	100	-0.04
18 tc 4,4'-DDD	51.629	48.848 E6	5.4	94	-0.03
19 tcm 4,4'-DDT	54.800	49.575 E6	9.5	90	-0.04
22 tc Methoxychlor	24.116	23.423 E6	2.9	97	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	42.585 E6	2.4	98	-0.04

Evaluate Continuing Calibration Report - Not Founds

2 TC HEXACHLORO BENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex929.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 10:33 pm
 Operator : M.PEDRO
 Sample : ccv32a
 Misc : indam
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:20:31 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.05	393.6E6	1242.2E6	20.901	20.358
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.90%#	20.36%#
25) S SURR2,Decachloro	17.40	17.46	714.9E6	1703.4E6	41.856	39.024
Spiked Amount	100.000	Range 30 - 150	Recovery =		41.86%	39.02%
Target Compounds						
3) tc alpha-BHC	10.27	10.10	616.4E6	1940.1E6	20.526	20.982
4) tcm gamma-BHC (L)	10.80	10.66	556.4E6	1734.6E6	20.241	21.113
5) tcm Heptachlor	11.54	11.31	566.8E6	1691.6E6	21.064	21.180
10) tc alpha-Endosu	13.47	13.15	429.4E6	1189.2E6	20.839	19.958
14) tcm Dieldrin	13.82	13.53	975.7E6	2618.8E6	41.904	40.133
15) tcm Endrin	14.16	13.96	840.6E6	2285.4E6	40.298	40.292
18) tc 4,4'-DDD	14.25	14.14	758.6E6	1953.9E6	40.333	37.845
19) tcm 4,4'-DDT	14.65	14.57	778.8E6	1983.0E6	38.879	36.187
22) tc Methoxychlor	15.35	15.55	2020.5E6	4684.7E6	204.713	194.258m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

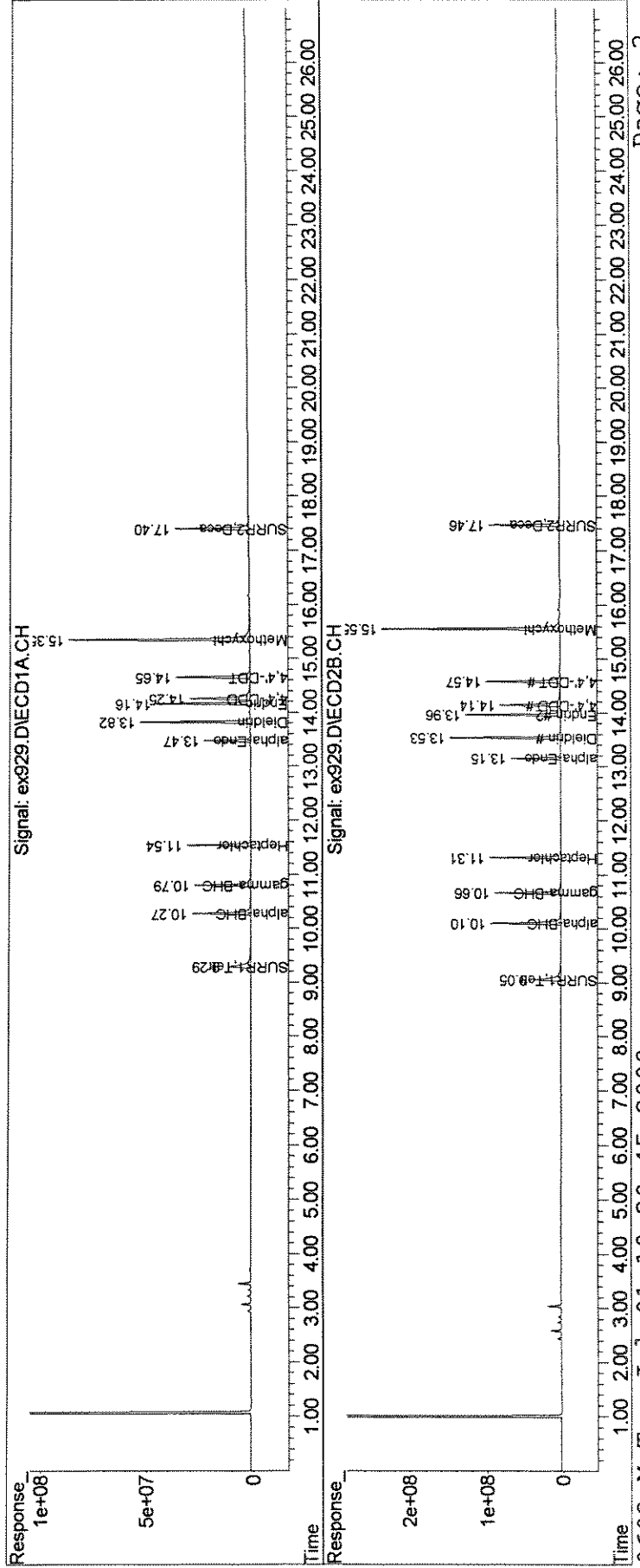
my 7/1

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex929.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 10:33 pm
 Operator : M.PEDRO
 Sample : ccv32a
 Misc : indam
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:20:31 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

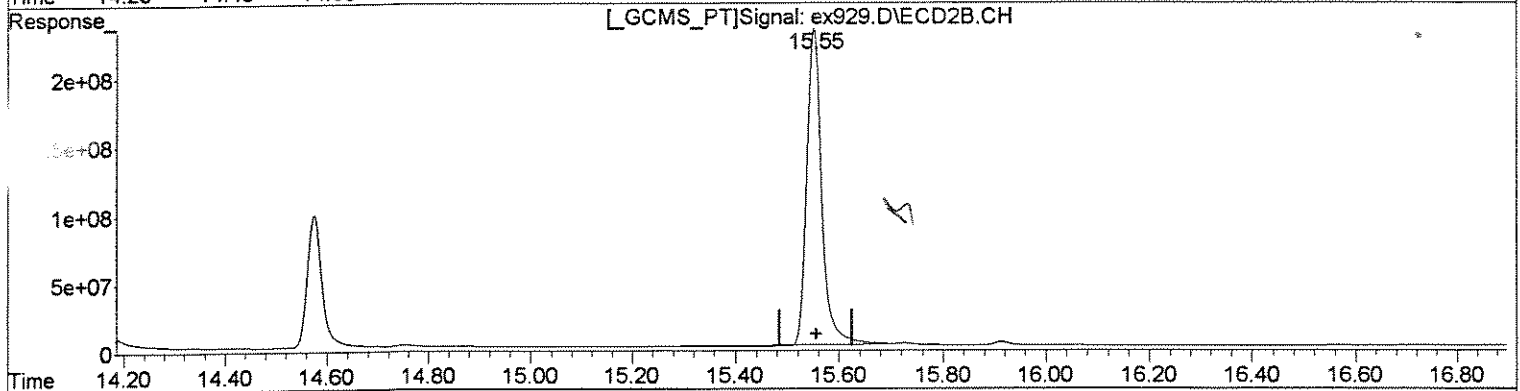
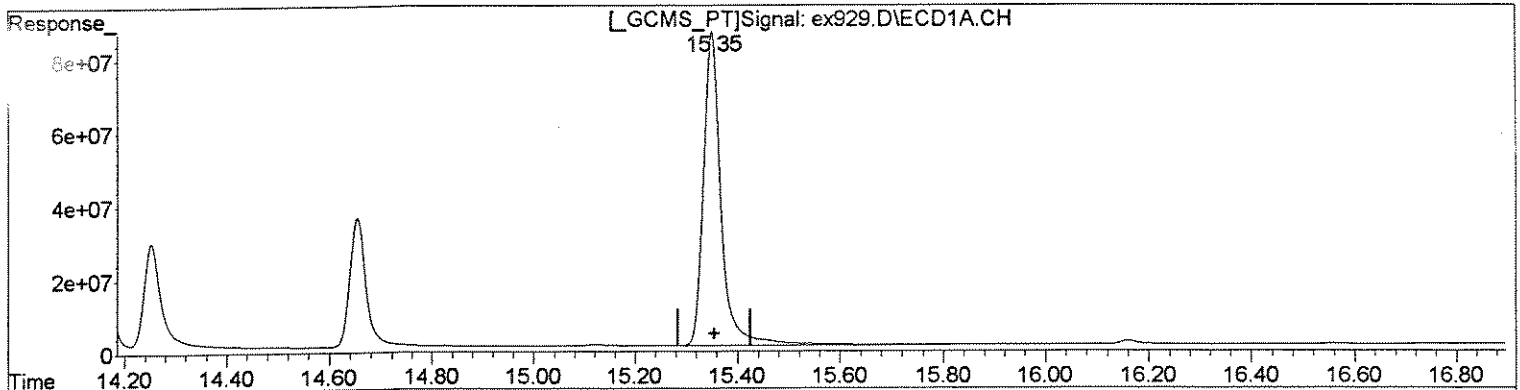


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 10:33 pm
Operator : M.PEDRO
Sample : ccv32a
Misc : indam.
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:26 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)
15.35min 204.713ug/l
response 2020476998

(22) Methoxychlor #2 (tc)
15.55min 190.719ug/l
response 4599328790

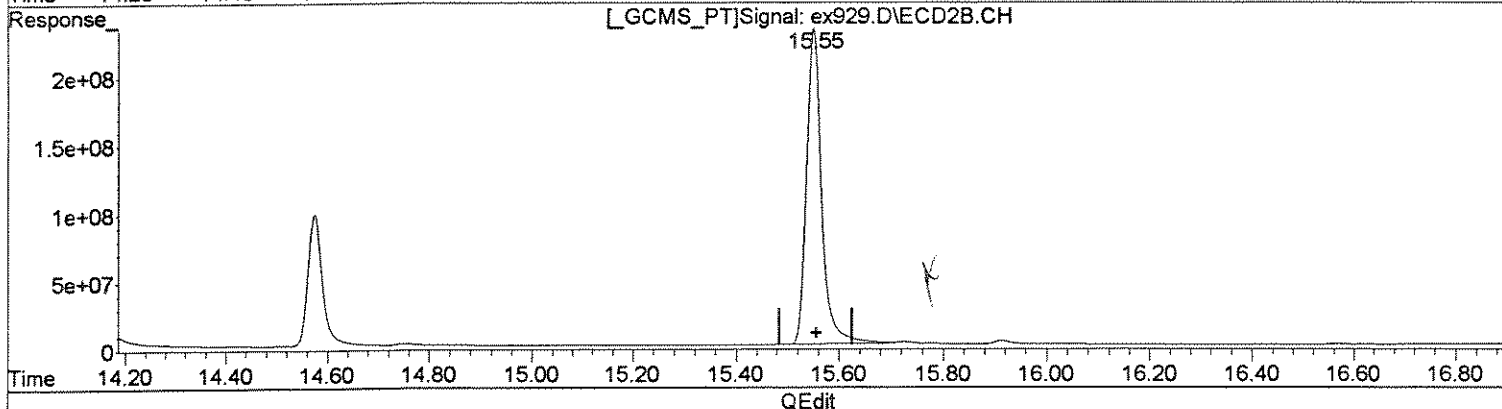
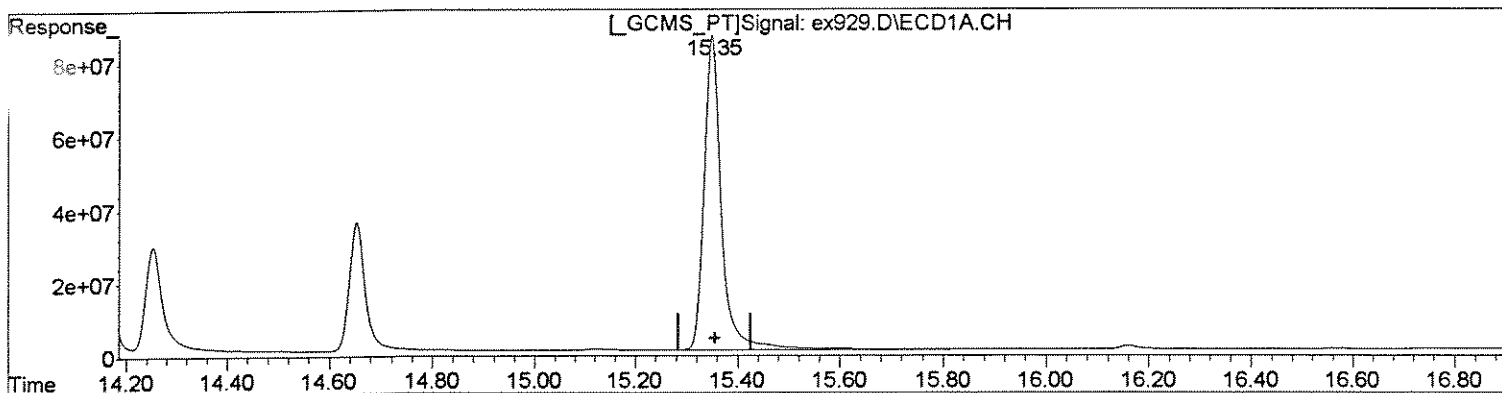
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 10:33 pm
Operator : M.PEDRO
Sample : ccv32a
Misc : indam
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:26 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)
15.35min 204.713ug/l
response 2020476998

(22) Methoxychlor #2 (tc)
15.55min 194.258ug/l m
response 4684665431

Handwritten: 1/1

Handwritten: 1/1

Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : ex930.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 11:09 pm
 Operator : M.PEDRO
 Sample : ccv32b
 Misc : indbm
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:21:25 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	18.949 E6	-0.6	102	0.01
6 tcm Aldrin	24.613	23.823 E6	3.2	96	-0.02
7 tc beta-BHC	11.546	10.760 E6	6.8	93	0.01
8 TC delta-BHC	27.657	24.075 E6	13.0	86	0.00
9 tc Heptachlor E	23.041	21.993 E6	4.5	96	-0.02
11 tc gamma-Chlord	22.791	21.103 E6	7.4	93	-0.02
12 tc alpha-Chlord	22.346	20.574 E6	7.9	92	-0.02
13 tc 4,4'-DDE	22.482	20.220 E6	10.1	89	0.00
17 tc beta-Endosul	19.657	18.768 E6	4.5	94	-0.02
20 tc Endrin Aldeh	14.779	14.251 E6	3.6	96	-0.03
21 tc Endosulfan S	18.138	15.739 E6	13.2	86	-0.03
24 tc Endrin Keton	20.882	19.106 E6	8.5	91	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.394 E6	-1.8	103	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	64.872 E6	-6.3	107	0.00
6 tcm Aldrin	74.947	72.481 E6	3.3	96	-0.03
7 tc beta-BHC	35.673	34.852 E6	2.3	98	0.00
8 tc delta-BHC	83.093	74.257 E6	10.6	88	-0.01
9 tc Heptachlor E	67.193	62.799 E6	6.5	92	-0.04
11 tc gamma-Chlord	69.724	61.586 E6	11.7	88	-0.03
12 tc alpha-Chlord	66.415	59.971 E6	9.7	90	-0.04
13 tc 4,4'-DDE	65.177	56.846 E6	12.8	86	-0.03
17 tc beta-Endosul	54.846	49.447 E6	9.8	89	-0.04
20 tc Endrin Aldeh	40.233	36.179 E6	10.1	89	-0.04
21 tc Endosulfan S	49.634	41.496 E6	16.4#	83	-0.04
24 tc Endrin Keton	54.137	47.416 E6	12.4	87	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	42.467 E6	2.7	98	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex930.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 11:09 pm
 Operator : M.PEDRO
 Sample : ccv32b
 Misc : indbm
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:21:25 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

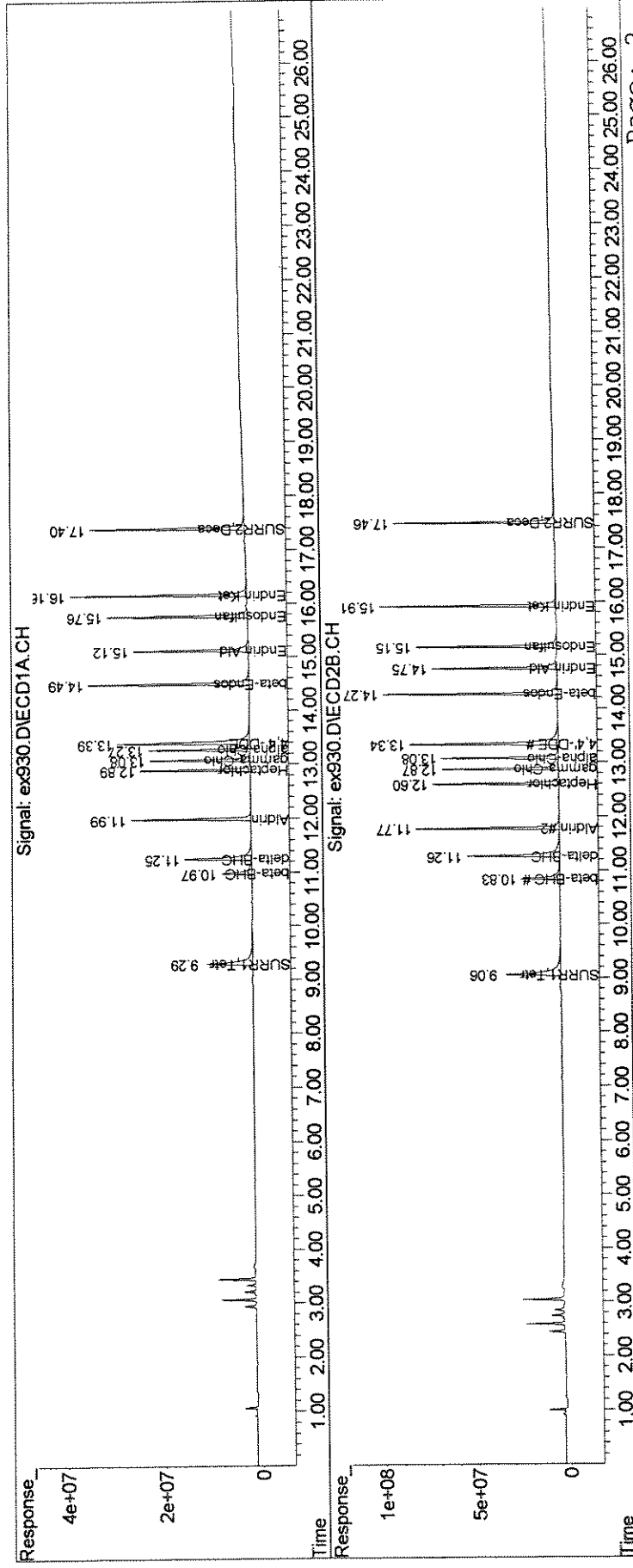
System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.06	379.0E6	1297.4E6	20.123	21.264
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.12%#	21.26%#
25) S SURR2,Decachloro	17.40	17.46	695.8E6	1698.7E6	40.735	38.915
Spiked Amount	100.000	Range	30 - 150	Recovery =	40.73%	38.91%
Target Compounds						
6) tcm Aldrin	11.99	11.78	476.5E6	1449.6E6	19.358	19.342
7) tc beta-BHC	10.98	10.84	215.2E6	697.0E6	18.639	19.540
8) tc delta-BHC	11.25	11.26	481.5E6	1485.1E6	17.410	17.873
9) tc Heptachlor E	12.90	12.60	439.9E6	1256.0E6	19.090	18.692
10) tc gamma-Chlord	13.08	12.87	422.1E6	1231.7E6	18.518	17.666
12) tc alpha-Chlord	13.27	13.08	411.5E6	1199.4E6	18.413	18.059
13) tc 4,4'-DDE	13.39	13.34	808.8E6	2273.8E6	35.975	34.887
17) tc beta-Endosul	14.50	14.27	750.7E6	1977.9E6	38.190	36.062
20) tc Endrin Aldeh	15.12	14.75	570.0E6	1447.2E6	38.571	35.969
21) tc Endosulfan S	15.76	15.15	629.6E6	1659.8E6	34.711	33.442
24) tc Endrin Keton	16.16	15.91	764.3E6	1896.7E6	36.598	35.034
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex930.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 11:09 pm
 Operator : M.PEDRO
 Sample : ccv32b
 Misc : indbm
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:21:25 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



51522

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex932.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 12:19 am
 Operator : M.PEDRO
 Sample : ccv33a
 Misc : indam
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:29:29 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	19.495 E6	-3.5	105	0.00
3 tc alpha-BHC	30.031	30.238 E6	-0.7	101	0.00
4 tcm gamma-BHC (L	27.489	28.000 E6	-1.9	102	0.00
5 tcm Heptachlor	26.908	28.209 E6	-4.8	105	-0.02
10 tc alpha-Endosu	20.604	21.280 E6	-3.3	104	-0.02
14 tcm Dieldrin	23.283	24.218 E6	-4.0	103	-0.03
15 tcm Endrin	20.860	20.649 E6	1.0	99	-0.03
18 tc 4,4'-DDD	18.810	18.631 E6	1.0	99	-0.01
19 tcm 4,4'-DDT	20.032	19.319 E6	3.6	96	-0.02
22 tc Methoxychlor	9.870	9.962 E6	-0.9	101	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	17.749 E6	-3.9	106	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	61.534 E6	-0.8	101	0.00
3 tc alpha-BHC	92.467	97.320 E6	-5.2	105	-0.02
4 tcm gamma-BHC (L	82.157	87.676 E6	-6.7	107	-0.02
5 tcm Heptachlor	79.864	84.640 E6	-6.0	105	-0.03
10 tc alpha-Endosu	59.586	60.082 E6	-0.8	100	-0.04
14 tcm Dieldrin	65.254	66.214 E6	-1.5	100	-0.04
15 tcm Endrin	56.721	57.303 E6	-1.0	100	-0.04
18 tc 4,4'-DDD	51.629	48.841 E6	5.4	94	-0.03
19 tcm 4,4'-DDT	54.800	50.052 E6	8.7	91	-0.04
22 tc Methoxychlor	24.116	23.447 E6	2.8	97	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	43.299 E6	0.8	100	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : ex932.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 12:19 am
 Operator : M.PEDRO
 Sample : ccv33a
 Misc : indam
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:29:29 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

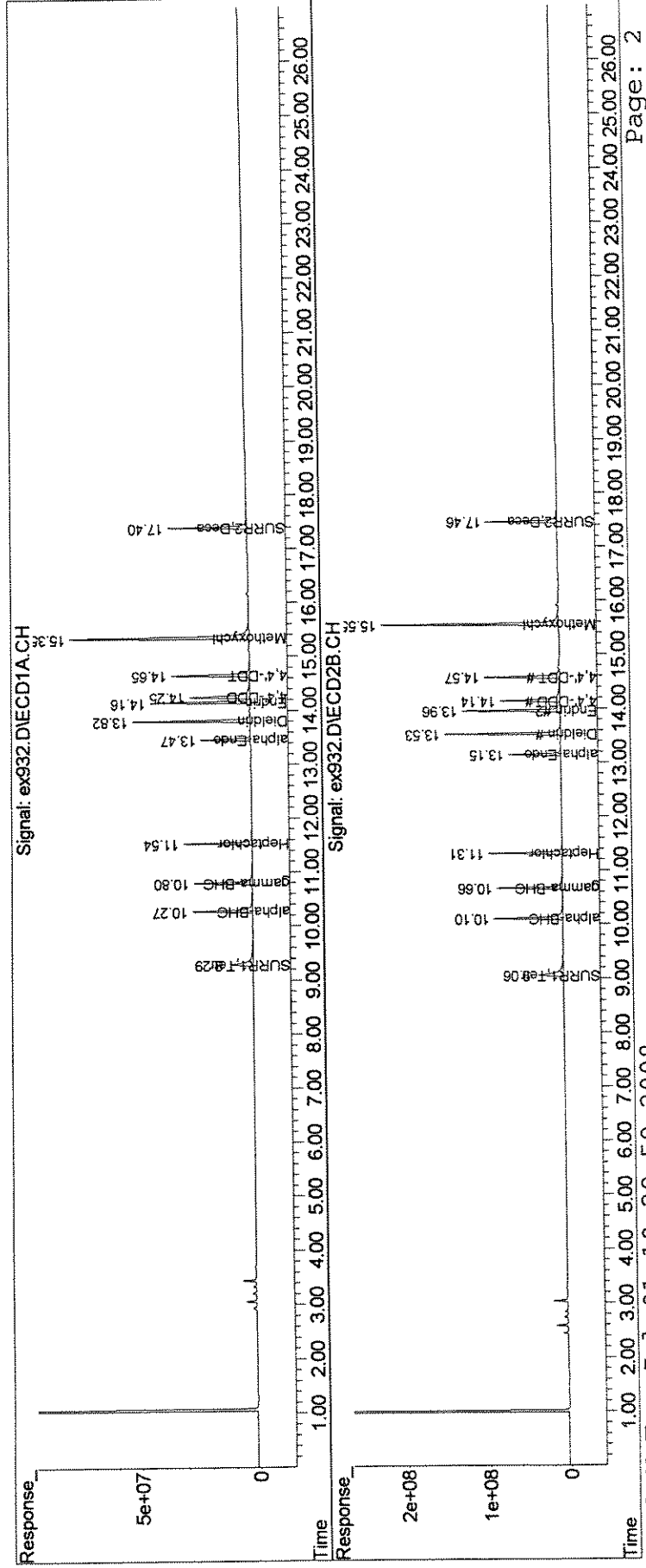
System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.06	389.9E6	1230.7E6	20.703	20.170
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.70%#	20.17%#
25) S SURR2,Decachloro	17.40	17.46	709.9E6	1732.0E6	41.565	39.678
Spiked Amount	100.000	Range	30 - 150	Recovery =	41.56%	39.68%
Target Compounds						
3) tc alpha-BHC	10.27	10.10	604.8E6	1946.4E6	20.138	21.050
4) tcm gamma-BHC (L	10.80	10.66	560.0E6	1753.5E6	20.372	21.343
5) tcm Heptachlor	11.54	11.31	564.2E6	1692.8E6	20.967	21.196
10) tc alpha-Endosu	13.47	13.15	425.6E6	1201.6E6	20.657	20.167
14) tcm Dieldrin	13.82	13.53	968.7E6	2648.6E6	41.606	40.588
15) tcm Endrin	14.16	13.96	826.0E6	2292.1E6	39.596	40.411
18) tc 4,4'-DDD	14.26	14.14	745.3E6	1953.7E6	39.621	37.840
19) tcm 4,4'-DDT	14.65	14.57	772.8E6	2002.1E6	38.577	36.534
tc Methoxychlor	15.35	15.55	1992.3E6	4689.4E6	201.859	194.454m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex932.D
Signal(s) : Signal #1: ECDIA.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 12:19 am
Operator : M.PEDRO
Sample : ccv33a
Misc : indam
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 10:29:29 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

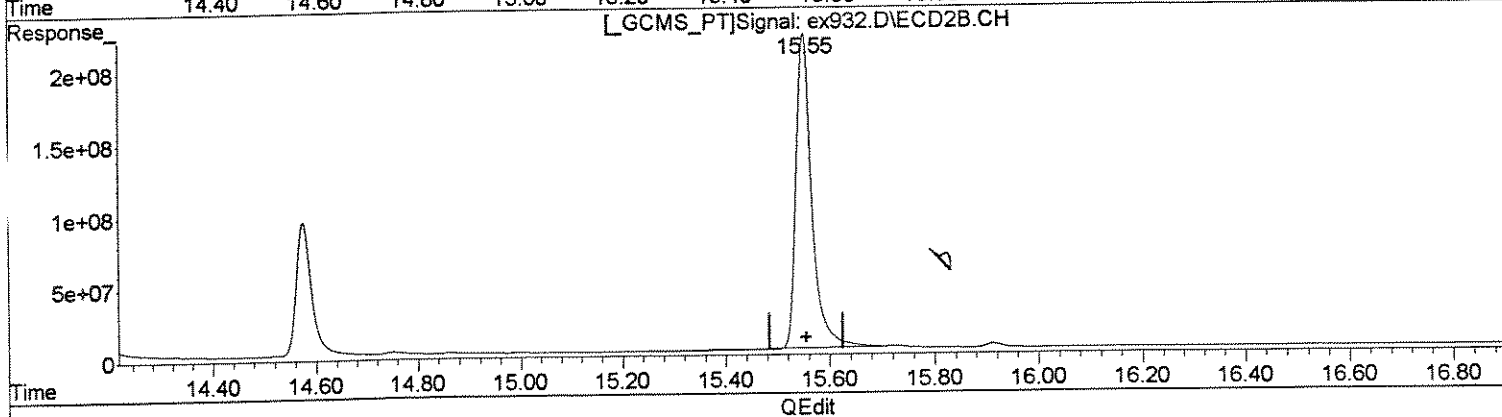
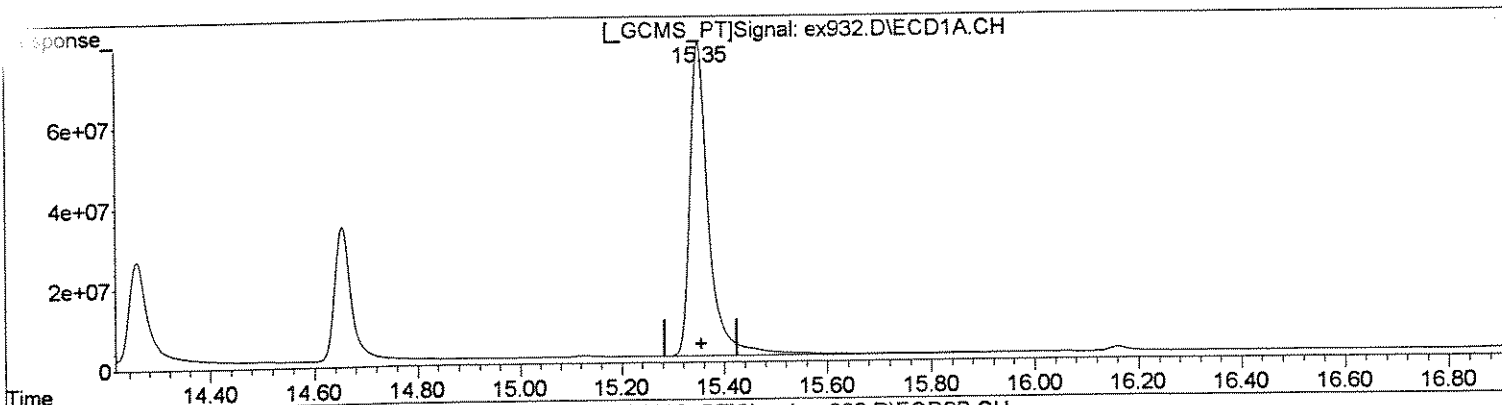


Quantitation Report (Qedit)

Data Path : J:\ACQUADATA\6890D\DATA\063008\
Data File : ex932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 12:19 am
Operator : M.PEDRO
Sample : ccv33a
Misc : indam
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:45 2008
Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)
15.35min 201.859ug/l
response 1992309290

(22) Methoxychlor #2 (tc)
15.55min 186.610ug/l
response 4500219230

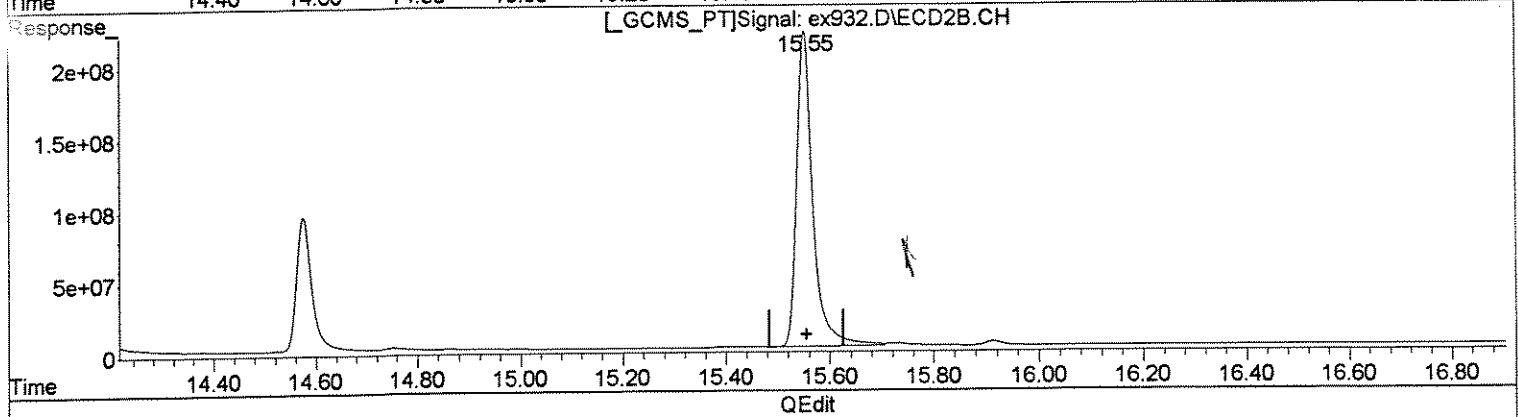
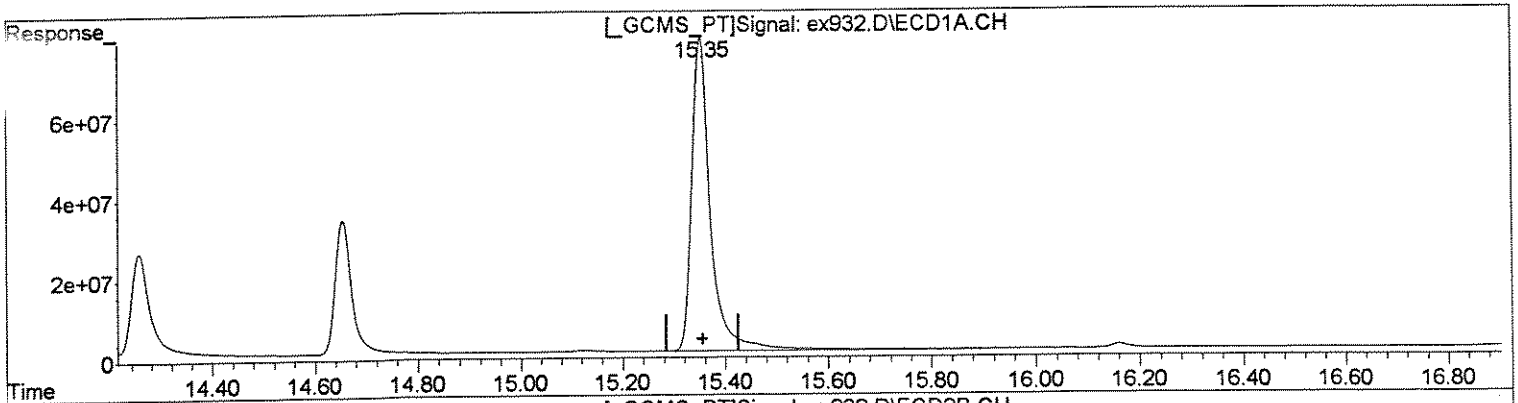
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 12:19 am
Operator : M.PEDRO
Sample : ccv33a
Misc : indam
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:07:45 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)
15.35min 201.859ug/l
response 1992309290

(22) Methoxychlor #2 (tc)
15.55min 194.454ug/l m
response 4689385952

MW:
7/1

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex933.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 12:55 am
 Operator : M.PEDRO
 Sample : ccv33b
 Misc : indbm
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:30:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	18.841 E6	-0.0	102	0.01
6 tcm Aldrin	24.613	23.782 E6	3.4	96	-0.02
7 tc beta-BHC	11.546	10.620 E6	8.0	92	0.01
8 TC delta-BHC	27.657	23.591 E6	14.7	84	0.01
9 tc Heptachlor E	23.041	22.052 E6	4.3	96	-0.02
11 tc gamma-Chlord	22.791	21.127 E6	7.3	93	-0.02
12 tc alpha-Chlord	22.346	20.597 E6	7.8	92	-0.02
13 tc 4,4'-DDE	22.482	19.943 E6	11.3	88	0.00
17 tc beta-Endosul	19.657	18.787 E6	4.4	94	-0.02
20 tc Endrin Aldeh	14.779	14.261 E6	3.5	96	-0.03
21 tc Endosulfan S	18.138	15.727 E6	13.3	86	-0.03
24 tc Endrin Keton	20.882	19.052 E6	8.8	91	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.440 E6	-2.1	104	-0.02

Myp III

Signal #2

1 S SURR1,Tetrac	61.016	65.901 E6	-8.0	109	0.00
6 tcm Aldrin	74.947	73.686 E6	1.7	97	-0.03
7 tc beta-BHC	35.673	35.129 E6	1.5	99	0.00
8 tc delta-BHC	83.093	74.120 E6	10.8	88	0.00
9 tc Heptachlor E	67.193	63.615 E6	5.3	94	-0.04
11 tc gamma-Chlord	69.724	62.529 E6	10.3	89	-0.03
12 tc alpha-Chlord	66.415	61.238 E6	7.8	92	-0.04
13 tc 4,4'-DDE	65.177	57.931 E6	11.1	88	-0.02
17 tc beta-Endosul	54.846	50.306 E6	8.3	91	-0.04
20 tc Endrin Aldeh	40.233	36.426 E6	9.5	90	-0.04
21 tc Endosulfan S	49.634	41.549 E6	16.3#	83	-0.04
24 tc Endrin Keton	54.137	47.817 E6	11.7	87	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	42.157 E6	3.4	97	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex933.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 12:55 am
 Operator : M.PEDRO
 Sample : ccv33b
 Misc : indbm
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:30:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.30	9.06	376.8E6	1318.0E6	20.008	21.601
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.01%#	21.60%#
25) S SURR2,Decachloro	17.40	17.46	697.6E6	1686.3E6	40.843	38.631
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.84%	38.63%
Target Compounds						
6) tcm Aldrin	11.99	11.78	475.6E6	1473.7E6	19.325	19.664
7) tc beta-BHC	10.98	10.84	212.4E6	702.6E6	18.397	19.695
8) tc delta-BHC	11.25	11.27	471.8E6	1482.4E6	17.060	17.840
9) tc Heptachlor E	12.90	12.60	441.0E6	1272.3E6	19.141	18.935
11) tc gamma-Chlord	13.08	12.87	422.5E6	1250.6E6	18.539	17.936
12) tc alpha-Chlord	13.27	13.08	411.9E6	1224.8E6	18.435	18.441
13) tc 4,4'-DDE	13.40	13.34	797.7E6	2317.2E6	35.483	35.553
17) tc beta-Endosul	14.50	14.27	751.5E6	2012.2E6	38.228	36.689
20) tc Endrin Aldeh	15.12	14.75	570.4E6	1457.0E6	38.599	36.215
21) tc Endosulfan S	15.76	15.15	629.1E6	1661.9E6	34.683	33.484
24) tc Endrin Keton	16.16	15.91	762.1E6	1912.7E6	36.495	35.331
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : ex937.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 3:17 am
 Operator : M.PEDRO
 Sample : ccv34a
 Misc : indam
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:46:44 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	19.465 E6	-3.4	105	0.00
3 tc alpha-BHC	30.031	29.870 E6	0.5	100	-0.01
4 tcm gamma-BHC (L	27.489	27.583 E6	-0.3	101	-0.01
5 tcm Heptachlor	26.908	28.070 E6	-4.3	105	-0.02
10 tc alpha-Endosu	20.604	20.969 E6	-1.8	103	-0.02
14 tcm Dieldrin	23.283	23.874 E6	-2.5	102	-0.03
15 tcm Endrin	20.860	20.850 E6	0.0	100	-0.03
18 tc 4,4'-DDD	18.810	18.473 E6	1.8	98	-0.01
19 tcm 4,4'-DDT	20.032	19.172 E6	4.3	95	-0.02
22 tc Methoxychlor	9.870	9.984 E6	-1.2	101	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	17.417 E6	-2.0	104	-0.03

Signal #2

1 S SURR1,Tetrac	61.016	60.930 E6	0.1	101	0.00
3 tc alpha-BHC	92.467	93.041 E6	-0.6	100	-0.02
4 tcm gamma-BHC (L	82.157	84.165 E6	-2.4	103	-0.03
5 tcm Heptachlor	79.864	81.918 E6	-2.6	102	-0.03
10 tc alpha-Endosu	59.586	57.138 E6	4.1	95	-0.04
14 tcm Dieldrin	65.254	62.752 E6	3.8	95	-0.04
15 tcm Endrin	56.721	53.928 E6	4.9	94	-0.04
18 tc 4,4'-DDD	51.629	46.311 E6	10.3	89	-0.03
19 tcm 4,4'-DDT	54.800	47.698 E6	13.0	86	-0.04
22 tc Methoxychlor	24.116	22.578 E6	6.4	93	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	41.578 E6	4.7	96	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex937.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 3:17 am
 Operator : M.PEDRO
 Sample : ccv34a
 Misc : indam
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:46:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

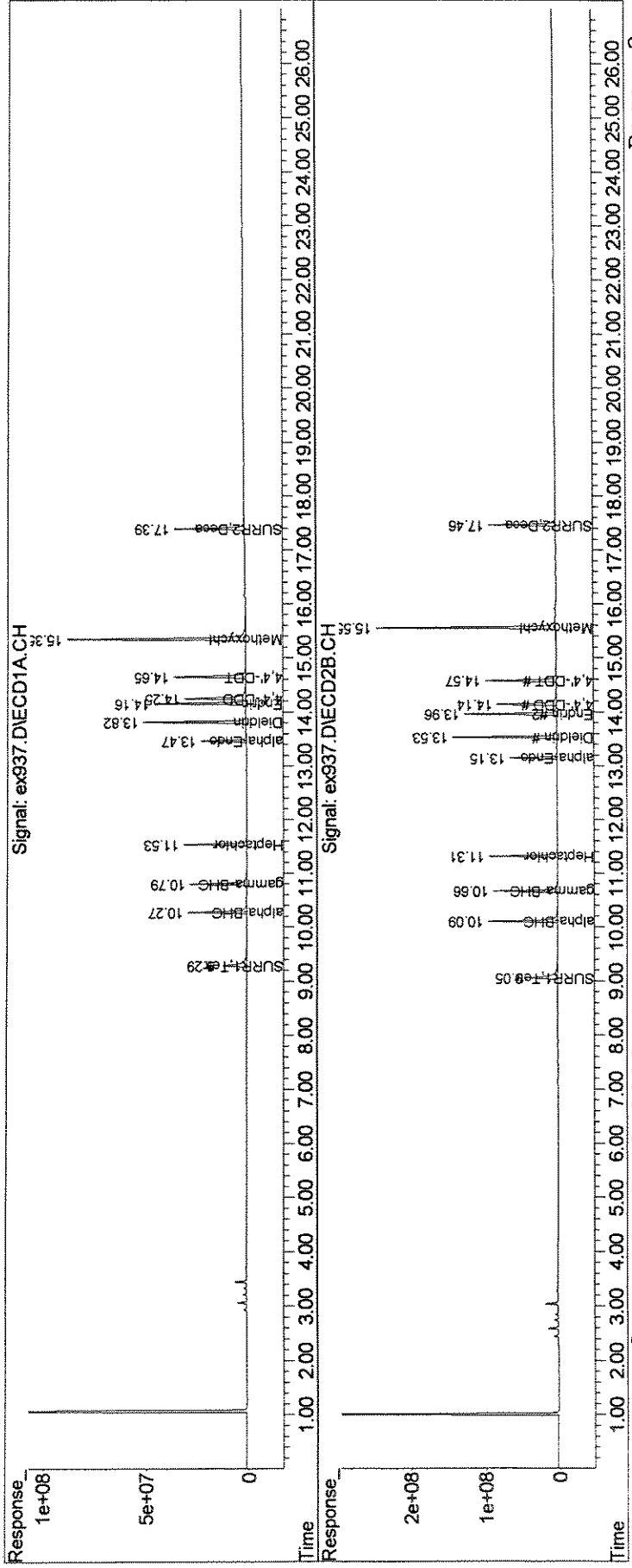
System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.05	389.3E6	1218.6E6	20.671	19.972
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.67%#	19.97%#
5) S SURR2,Decachloro	17.39	17.46	696.7E6	1663.1E6	40.789	38.101
Spiked Amount	100.000	Range	30 - 150	Recovery =	40.79%	38.10%
Target Compounds						
3) tc alpha-BHC	10.27	10.10	597.4E6	1860.8E6	19.893	20.124
4) tcm gamma-BHC (L	10.79	10.66	551.7E6	1683.3E6	20.069	20.489
5) tcm Heptachlor	11.54	11.31	561.4E6	1638.4E6	20.864	20.514
0) tc alpha-Endosu	13.47	13.15	419.4E6	1142.8E6	20.355	19.178
4) tcm Dieldrin	13.82	13.53	954.9E6	2510.1E6	41.014	38.466
5) tcm Endrin	14.16	13.96	834.0E6	2157.1E6	39.981	38.030
8) tc 4,4'-DDD	14.25	14.14	738.9E6	1852.4E6	39.283	35.880
9) tcm 4,4'-DDT	14.65	14.57	766.9E6	1907.9E6	38.282	34.816
2) tc Methoxychlor	15.35	15.55	1996.7E6	4515.5E6	202.307	187.244
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex937.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 3:17 am
 Operator : M.PEDRO
 Sample : ccv34a
 Misc : indam
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:46:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex938.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 3:52 am
 Operator : M.PEDRO
 Sample : ccv34b
 Misc : indbm
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:47:53 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	18.833	19.223 E6	-2.1	104	0.01
6 tcm Aldrin	24.613	23.979 E6	2.6	97	-0.02
7 tc beta-BHC	11.546	10.756 E6	6.8	93	0.01
8 TC delta-BHC	27.657	24.709 E6	10.7	88	0.00
9 tc Heptachlor E	23.041	21.948 E6	4.7	95	-0.02
11 tc gamma-Chlord	22.791	21.024 E6	7.8	92	-0.02
12 tc alpha-Chlord	22.346	19.770 E6	11.5	89	-0.02
13 tc 4,4'-DDE	22.482	20.302 E6	9.7	89	0.00
17 tc beta-Endosul	19.657	18.441 E6	6.2	93	-0.02
20 tc Endrin Aldeh	14.779	14.089 E6	4.7	95	-0.03
21 tc Endosulfan S	18.138	15.800 E6	12.9	87	-0.03
24 tc Endrin Keton	20.882	19.211 E6	8.0	92	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	19.039 E6	-11.5	113	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	65.470 E6	-7.3	108	0.00
6 tcm Aldrin	74.947	71.548 E6	4.5	94	-0.03
7 tc beta-BHC	35.673	34.551 E6	3.1	98	0.00
8 tc delta-BHC	83.093	74.040 E6	10.9	88	-0.01
9 tc Heptachlor E	67.193	61.287 E6	8.8	90	-0.04
11 tc gamma-Chlord	69.724	60.524 E6	13.2	86	-0.03
12 tc alpha-Chlord	66.415	58.985 E6	11.2	88	-0.04
13 tc 4,4'-DDE	65.177	56.735 E6	13.0	86	-0.03
17 tc beta-Endosul	54.846	48.372 E6	11.8	87	-0.04
20 tc Endrin Aldeh	40.233	35.598 E6	11.5	88	-0.04
21 tc Endosulfan S	49.634	40.873 E6	17.7#	82	-0.04
24 tc Endrin Keton	54.137	46.913 E6	13.3	86	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	41.450 E6	5.0	96	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex938.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 3:52 am
 Operator : M.PEDRO
 Sample : ccv34b
 Misc : indbm
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:47:53 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

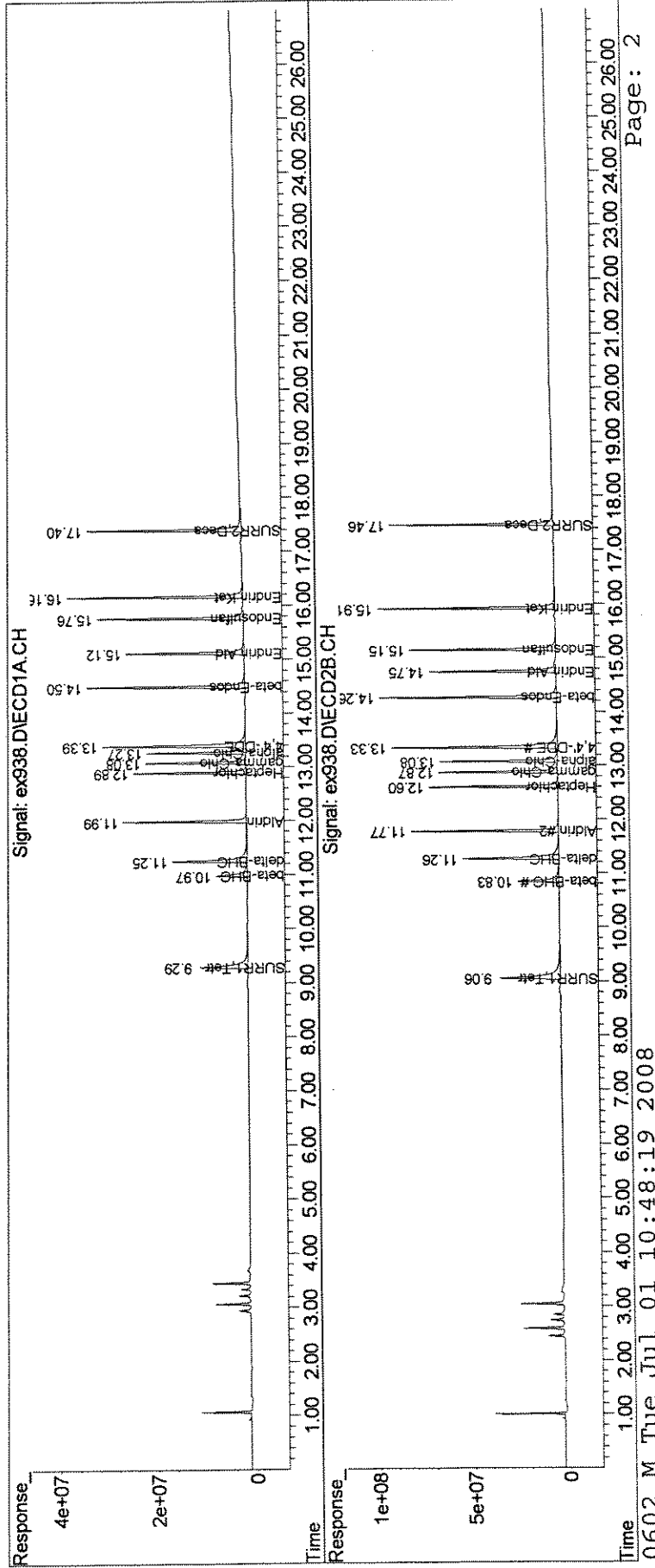
System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.06	384.5E6	1309.4E6	20.413	21.460
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.41%#	21.46%#
5) S SURR2,Decachloro	17.40	17.46	761.6E6	1658.0E6	44.587	37.983
Spiked Amount	100.000	Range 30 - 150	Recovery =		44.59%	37.98%
Target Compounds						
6) tcm Aldrin	11.99	11.77	479.6E6	1431.0E6	19.485	19.093
7) tc beta-BHC	10.98	10.84	215.1E6	691.0E6	18.632	19.371
8) tc delta-BHC	11.25	11.26	494.2E6	1480.8E6	17.868	17.821
9) tc Heptachlor E	12.90	12.60	439.0E6	1225.7E6	19.051	18.242
1) tc gamma-Chlord	13.08	12.87	420.5E6	1210.5E6	18.450	17.361
2) tc alpha-Chlord	13.27	13.08	395.4E6	1179.7E6	17.694	17.763
3) tc 4,4'-DDE	13.39	13.33	812.1E6	2269.4E6	36.122	34.819
7) tc beta-Endosul	14.50	14.27	737.6E6	1934.9E6	37.524	35.279
10) tc Endrin Aldeh	15.12	14.75	563.6E6	1423.9E6	38.135	35.391
1) tc Endosulfan S	15.76	15.15	632.0E6	1634.9E6	34.845	32.939
4) tc Endrin Keton	16.16	15.91	768.5E6	1876.5E6	36.800	34.663
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex938.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 3:52 am
 Operator : M.PEDRO
 Sample : ccv34b
 Misc : indbm
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:47:53 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01536

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey066.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 10:09 am
 Operator : M.PEDRO
 Sample : ccv1a
 Misc : indamh
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:09:43 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1,Tetrac	20.181	20.279 E6	-0.5	100	0.00
3 tc alpha-BHC	30.916	31.340 E6	-1.4	100	0.00
4 tcm gamma-BHC (L	28.206	28.530 E6	-1.1	100	0.00
5 tcm Heptachlor	27.944	28.162 E6	-0.8	100	0.00
10 tc alpha-Endosu	20.460	20.586 E6	-0.6	100	0.00
14 tcm Dieldrin	22.843	23.381 E6	-2.4	101	0.00
15 tcm Endrin	20.719	21.060 E6	-1.6	100	0.00
18 tc 4,4'-DDD	17.994	18.322 E6	-1.8	104	0.00
19 tcm 4,4'-DDT	19.138	19.802 E6	-3.5	101	0.00
22 tc Methoxychlor	9.313	9.428 E6	-1.2	99	0.00
25 S SURR2,Decachlorobiphenyl	17.465	16.863 E6	3.4	96	0.00

Signal #2

1 S SURR1,Tetrac	80.920	86.290 E6	-6.6	106	0.00
3 tc alpha-BHC	118.675	128.838 E6	-8.6	107	0.00
4 tcm gamma-BHC (L	105.076	113.531 E6	-8.0	106	0.00
5 tcm Heptachlor	100.362	108.629 E6	-8.2	106	0.00
10 tc alpha-Endosu	70.973	78.972 E6	-11.3	108	0.00
14 tcm Dieldrin	78.244	85.303 E6	-9.0	107	0.00
15 tcm Endrin	67.355	75.465 E6	-12.0	107	0.00
18 tc 4,4'-DDD	62.240	68.168 E6	-9.5	108	0.00
19 tcm 4,4'-DDT	65.507	71.876 E6	-9.7	108	0.00
22 tc Methoxychlor	29.053	31.659 E6	-9.0	107	0.00
25 S SURR2,Decachlorobiphenyl	55.075	59.697 E6	-8.4	107	0.00

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
6 tcm Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey066.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 10:09 am
 Operator : M.PEDRO
 Sample : ccv1a
 Misc : indamh
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:09:43 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	405.6E6	1725.8E6	20.097	21.327
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.10%#	21.33%#
5) S SURR2,Decachloro	17.61	17.86	674.5E6	2387.9E6	38.621m	43.357m
Spiked Amount	100.000	Range 30 - 150	Recovery =		38.62%	43.36%
Target Compounds						
3) tc alpha-BHC	10.44	10.40	626.8E6	2576.8E6	20.274	21.713
4) tcm gamma-BHC (L	10.97	10.97	570.6E6	2270.6E6	20.230	21.609
5) tcm Heptachlor	11.72	11.64	563.2E6	2172.6E6	20.156	21.647
0) tc alpha-Endosu	13.68	13.52	411.7E6	1579.4E6	20.123	22.254
4) tcm Dieldrin	14.03	13.91	935.2E6	3412.1E6	40.942	43.609
5) tcm Endrin	14.38	14.35	842.4E6	3018.6E6	40.658	44.816
8) tc 4,4'-DDD	14.45	14.50	732.9E6	2726.7E6	40.730	43.810
9) tcm 4,4'-DDT	14.87	14.96	792.1E6	2875.0E6	41.389	43.889
2) tc Methoxychlor	15.56	15.93	1885.6E6	6331.8E6	202.470	217.937
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

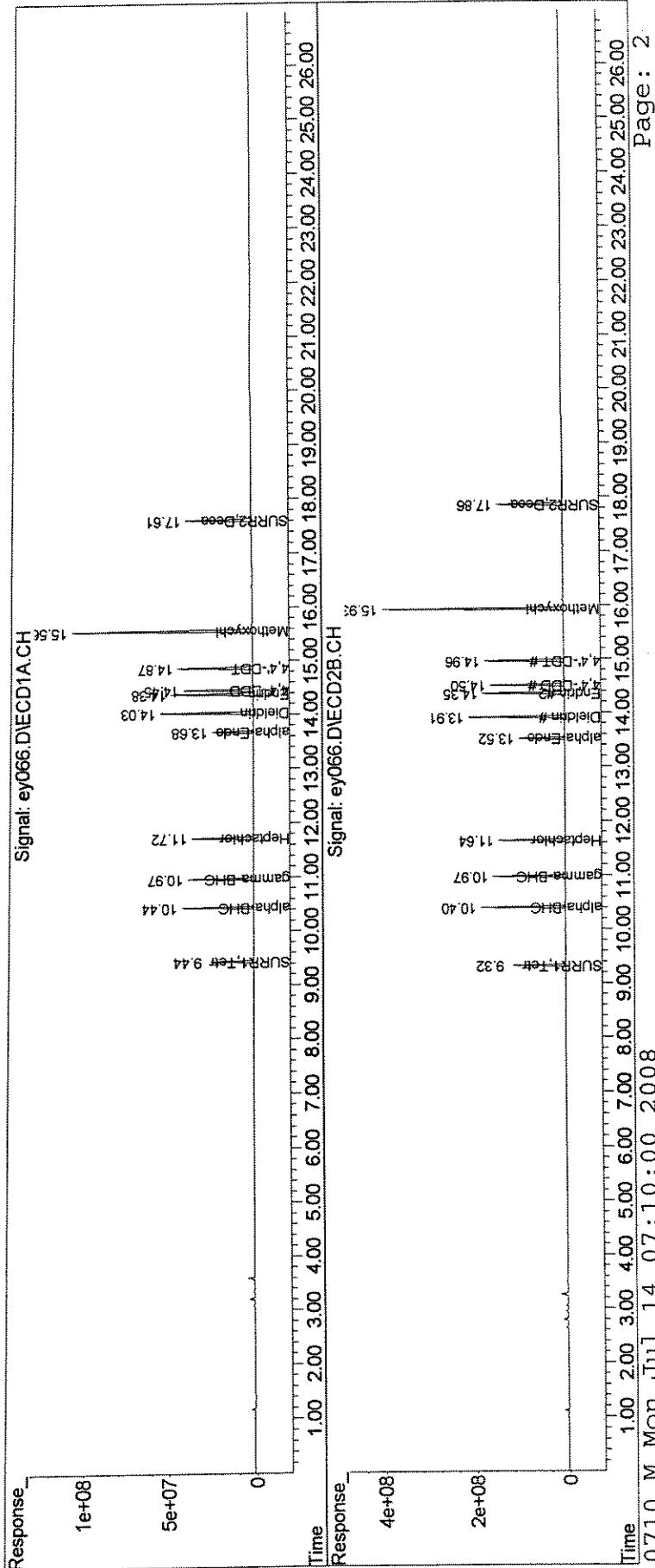
WR
7/14

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey066.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 10:09 am
 Operator : M.PEDRO
 Sample : ccv1a
 Misc : indamh
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:09:43 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



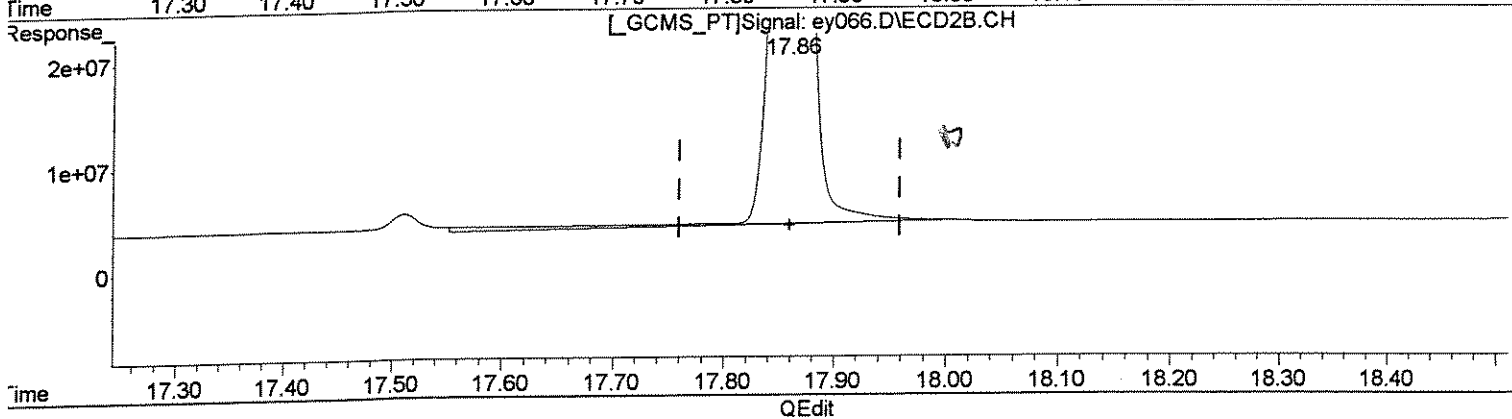
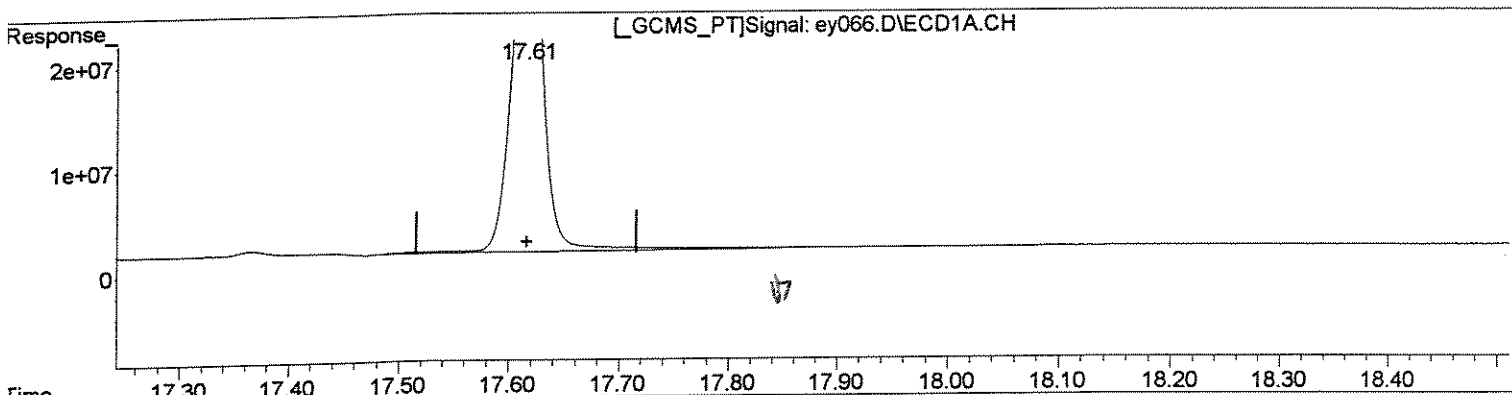
01539

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey066.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 10:09 am
Operator : M.PEDRO
Sample : ccv1a
Misc : indamh
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:50:27 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURRE2,Decachlorobiphenyl (S)
17.61min 40.329ug/l
response 704361263

(25) SURRE2,Decachlorobiphenyl #2 (S)
17.86min 44.079ug/l
response 2427654490

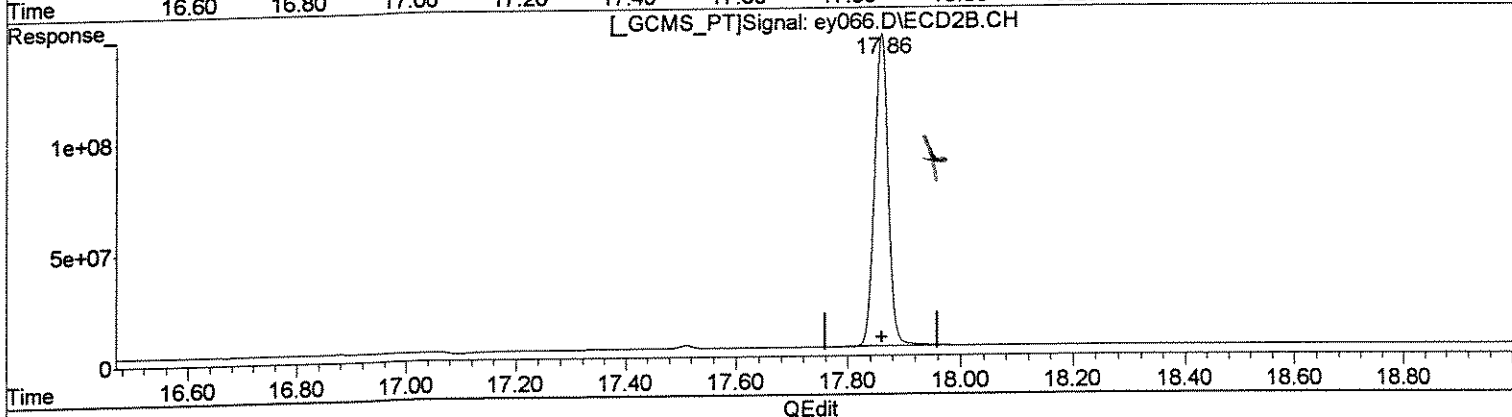
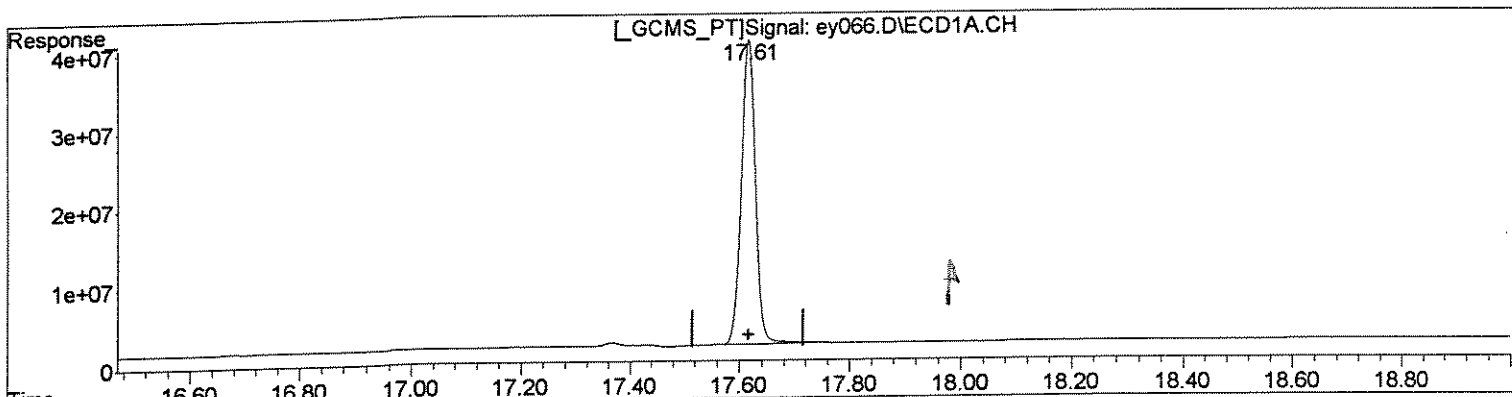
base

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey066.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 10:09 am
Operator : M.PEDRO
Sample : ccvla
Misc : indamh
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:50:27 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.61min 38.621ug/l m
response 674530923

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 43.357ug/l m
response 2387876573

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7/14

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7/14

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey067.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 10:44 am
 Operator : M.PEDRO
 Sample : ccv1b
 Misc : indbmh
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:10:36 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	20.181	20.491 E6	-1.5	101	0.00
6 tcm Aldrin	24.759	24.936 E6	-0.7	100	0.00
7 tc beta-BHC	11.483	11.089 E6	3.4	99	0.00
8 TC delta-BHC	27.198	27.153 E6	0.2	99	0.00
9 tc Heptachlor E	22.762	22.862 E6	-0.4	100	0.00
11 tc gamma-Chlord	21.924	21.941 E6	-0.1	101	0.00
12 tc alpha-Chlord	21.387	21.336 E6	0.2	100	0.00
13 tc 4,4'-DDE	21.781	22.112 E6	-1.5	101	0.00
17 tc beta-Endosul	18.589	18.838 E6	-1.3	101	0.00
20 tc Endrin Aldeh	14.678	14.784 E6	-0.7	100	0.00
21 tc Endosulfan S	16.846	16.920 E6	-0.4	101	0.00
24 tc Endrin Keton	19.363	19.483 E6	-0.6	100	0.00
25 S SURR2,Decachlorobiphenyl	17.465	17.698 E6	-1.3	101	0.00

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Signal #2

1 S SURR1,Tetrac	80.920	88.099 E6	-8.9	108	0.00
6 tcm Aldrin	91.095	97.576 E6	-7.1	105	0.00
7 tc beta-BHC	45.130	47.569 E6	-5.4	105	0.00
8 tc delta-BHC	103.241	109.901 E6	-6.5	105	0.00
9 tc Heptachlor E	80.396	85.006 E6	-5.7	104	0.00
11 tc gamma-Chlord	82.026	87.053 E6	-6.1	105	0.00
12 tc alpha-Chlord	77.670	82.618 E6	-6.4	106	0.00
13 tc 4,4'-DDE	76.653	82.215 E6	-7.3	105	0.00
17 tc beta-Endosul	64.198	68.720 E6	-7.0	106	0.00
20 tc Endrin Aldeh	49.048	52.323 E6	-6.7	105	0.00
21 tc Endosulfan S	57.148	60.878 E6	-6.5	105	0.00
24 tc Endrin Keton	62.732	67.278 E6	-7.2	106	0.00
25 S SURR2,Decachlorobiphenyl	55.075	59.991 E6	-8.9	108	0.00

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey067.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 10:44 am
 Operator : M.PEDRO
 Sample : ccv1b
 Misc : indbmh
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:10:36 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

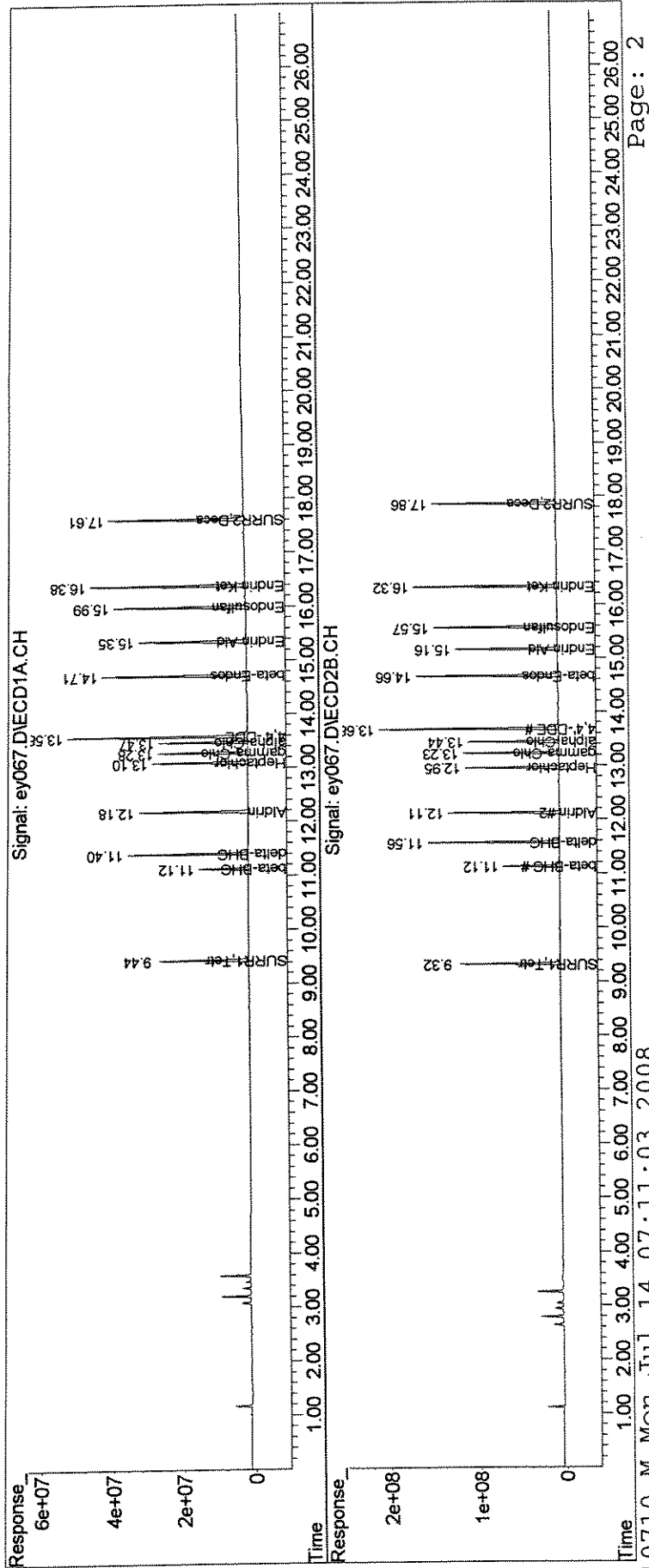
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	409.8E6	1762.0E6	20.308	21.774
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.31%#	21.77%#
5) S SURR2,Decachloro	17.61	17.86	707.9E6	2399.6E6	40.533	43.570
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.53%	43.57%
Target Compounds						
5) tcm Aldrin	12.18	12.12	498.7E6	1951.5E6	20.143	21.423
7) tc beta-BHC	11.12	11.12	221.8E6	951.4E6	19.314	21.081
3) tc delta-BHC	11.40	11.56	543.1E6	2198.0E6	19.967	21.290
9) tc Heptachlor E	13.10	12.96	457.2E6	1700.1E6	20.088	21.147
1) tc gamma-Chlord	13.28	13.23	438.8E6	1741.1E6	20.015	21.226
2) tc alpha-Chlord	13.47	13.44	426.7E6	1652.4E6	19.952	21.274
3) tc 4,4'-DDE	13.58	13.68	884.5E6	3288.6E6	40.608	42.903
7) tc beta-Endosul	14.72	14.66	753.5E6	2748.8E6	40.537	42.818
0) tc Endrin Aldehy	15.35	15.16	591.4E6	2092.9E6	40.290	42.671
1) tc Endosulfan S	15.99	15.57	676.8E6	2435.1E6	40.174	42.611
4) tc Endrin Keton	16.38	16.32	779.3E6	2691.1E6	40.247	42.899
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey067.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 10:44 am
 Operator : M.PEDRO
 Sample : ccv1b
 Misc : indbmh
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:10:36 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



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Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : ey077.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 4:41 pm
 Operator : M.PEDRO
 Sample : ccv2a
 Misc : indam
 ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:23:19 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	20.181	20.319 E6	-0.7	100	0.00
3 tc alpha-BHC	30.916	31.636 E6	-2.3	101	0.00
4 tcm gamma-BHC (L	28.206	28.844 E6	-2.3	101	0.00
5 tcm Heptachlor	27.944	28.576 E6	-2.3	101	0.00
10 tc alpha-Endosu	20.460	20.952 E6	-2.4	102	0.00
14 tcm Dieldrin	22.843	23.784 E6	-4.1	102	0.00
15 tcm Endrin	20.719	21.470 E6	-3.6	102	0.00
18 tc 4,4'-DDD	17.994	18.660 E6	-3.7	106	0.00
19 tcm 4,4'-DDT	19.138	20.222 E6	-5.7	103	0.00
22 tc Methoxychlor	9.313	9.609 E6	-3.2	101	0.00
25 S SURR2,Decachlorobiphenyl	17.465	18.209 E6	-4.3	104	0.00

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Signal #2

1 S SURR1,Tetrac	80.920	83.800 E6	-3.6	102	0.00
3 tc alpha-BHC	118.675	124.488 E6	-4.9	103	0.00
4 tcm gamma-BHC (L	105.076	109.991 E6	-4.7	103	0.00
5 tcm Heptachlor	100.362	105.944 E6	-5.6	104	0.00
10 tc alpha-Endosu	70.973	76.460 E6	-7.7	105	0.00
14 tcm Dieldrin	78.244	83.158 E6	-6.3	104	0.00
15 tcm Endrin	67.355	73.766 E6	-9.5	105	0.00
18 tc 4,4'-DDD	62.240	66.288 E6	-6.5	105	0.00
19 tcm 4,4'-DDT	65.507	70.537 E6	-7.7	106	0.00
22 tc Methoxychlor	29.053	30.337 E6	-4.4	103	0.00
25 S SURR2,Decachlorobiphenyl	55.075	57.185 E6	-3.8	103	0.00

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
6 tcm Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : ey077.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 4:41 pm
 Operator : M.PEDRO
 Sample : ccv2a
 Misc : indam
 ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:23:19 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

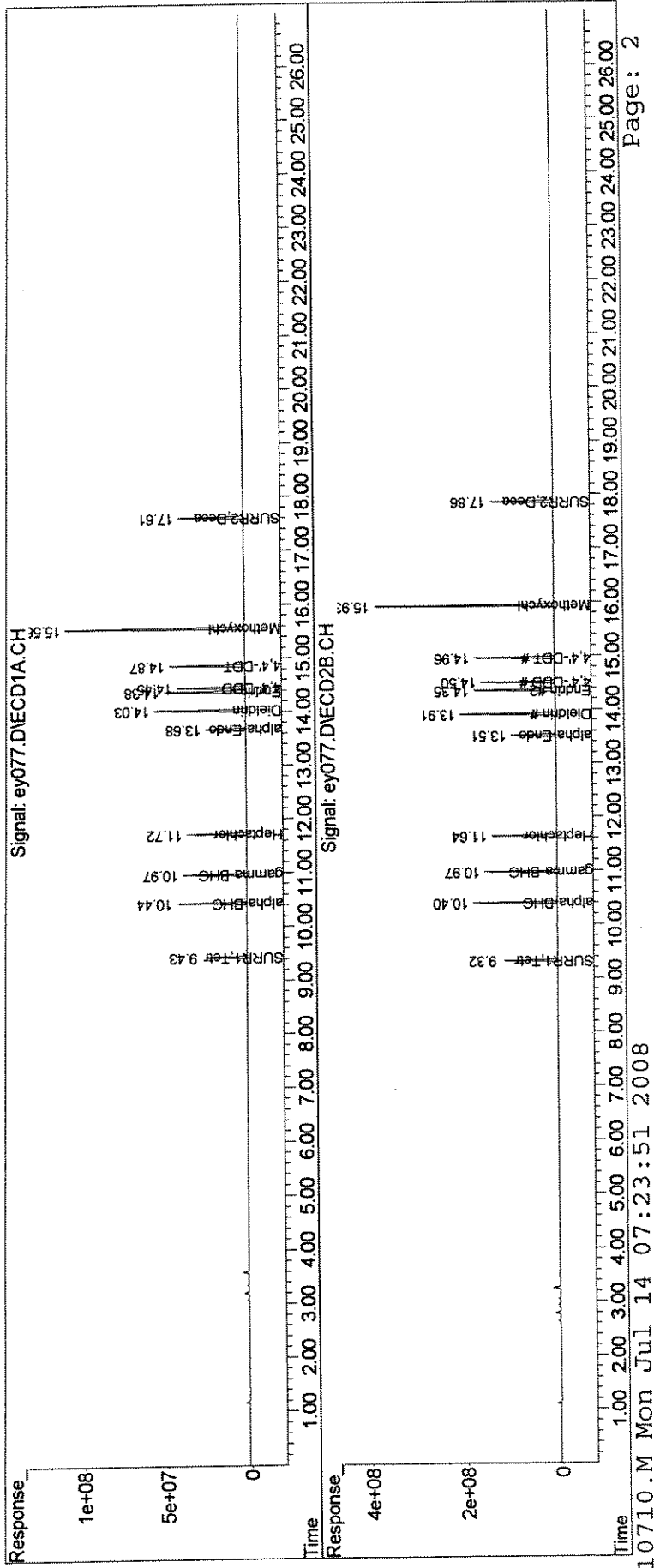
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	406.4E6	1676.0E6	20.137	20.712
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.14%#	20.71%#
5) S SURR2,Decachloro	17.61	17.86	728.4E6	2287.4E6	41.704	41.532
Spiked Amount	100.000	Range 30 - 150	Recovery =		41.70%	41.53%
Target Compounds						
3) tc alpha-BHC	10.44	10.40	632.7E6	2489.8E6	20.466	20.980
4) tcm gamma-BHC (L)	10.97	10.97	576.9E6	2199.8E6	20.453	20.936
5) tcm Heptachlor	11.72	11.64	571.5E6	2118.9E6	20.452	21.112
0) tc alpha-Endosu	13.68	13.52	419.0E6	1529.2E6	20.481	21.546
4) tcm Dieldrin	14.03	13.91	951.4E6	3326.3E6	41.648	42.512
5) tcm Endrin	14.38	14.35	858.8E6	2950.6E6	41.450	43.807
3) tc 4,4'-DDD	14.45	14.50	746.4E6	2651.5E6	41.482	42.602
9) tcm 4,4'-DDT	14.87	14.96	808.9E6	2821.5E6	42.268	43.071
2) tc Methoxychlor	15.56	15.93	1921.7E6	6067.4E6	206.354	208.837
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey077.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 4:41 pm
 Operator : M.PEDRO
 Sample : ccv2a
 Misc : indam
 ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:23:19 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



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Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey078.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 5:16 pm
 Operator : M.PEDRO
 Sample : ccv2b
 Misc : indbm
 ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:24:17 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	20.181	20.770 E6	-2.9	103	0.00
6 tcm Aldrin	24.759	25.521 E6	-3.1	102	0.00
7 tc beta-BHC	11.483	11.357 E6	1.1	101	0.00
8 TC delta-BHC	27.198	27.816 E6	-2.3	101	0.00
9 tc Heptachlor E	22.762	23.412 E6	-2.9	103	0.00
11 tc gamma-Chlord	21.924	22.519 E6	-2.7	103	0.00
12 tc alpha-Chlord	21.387	21.829 E6	-2.1	103	0.00
13 tc 4,4'-DDE	21.781	22.751 E6	-4.5	104	0.00
17 tc beta-Endosul	18.589	19.352 E6	-4.1	104	0.00
20 tc Endrin Aldehy	14.678	15.225 E6	-3.7	103	0.00
21 tc Endosulfan S	16.846	17.392 E6	-3.2	103	0.00
24 tc Endrin Keton	19.363	20.010 E6	-3.3	103	0.00
25 S SURR2,Decachlorobiphenyl	17.465	18.132 E6	-3.8	103	0.00

Signal #2

1 S SURR1,Tetrac	80.920	85.698 E6	-5.9	105	0.00
6 tcm Aldrin	91.095	95.654 E6	-5.0	103	0.00
7 tc beta-BHC	45.130	46.422 E6	-2.9	103	0.00
8 tc delta-BHC	103.241	107.904 E6	-4.5	103	0.00
9 tc Heptachlor E	80.396	83.786 E6	-4.2	103	0.00
11 tc gamma-Chlord	82.026	86.370 E6	-5.3	105	0.00
12 tc alpha-Chlord	77.670	82.561 E6	-6.3	105	0.00
13 tc 4,4'-DDE	76.653	81.751 E6	-6.7	105	0.00
17 tc beta-Endosul	64.198	67.493 E6	-5.1	104	0.00
20 tc Endrin Aldehy	49.048	51.517 E6	-5.0	103	0.00
21 tc Endosulfan S	57.148	59.898 E6	-4.8	103	0.00
24 tc Endrin Keton	62.732	65.947 E6	-5.1	104	0.00
25 S SURR2,Decachlorobiphenyl	55.075	57.889 E6	-5.1	104	0.00

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Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey078.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 5:16 pm
 Operator : M.PEDRO
 Sample : ccv2b
 Misc : indbm
 ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:24:17 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

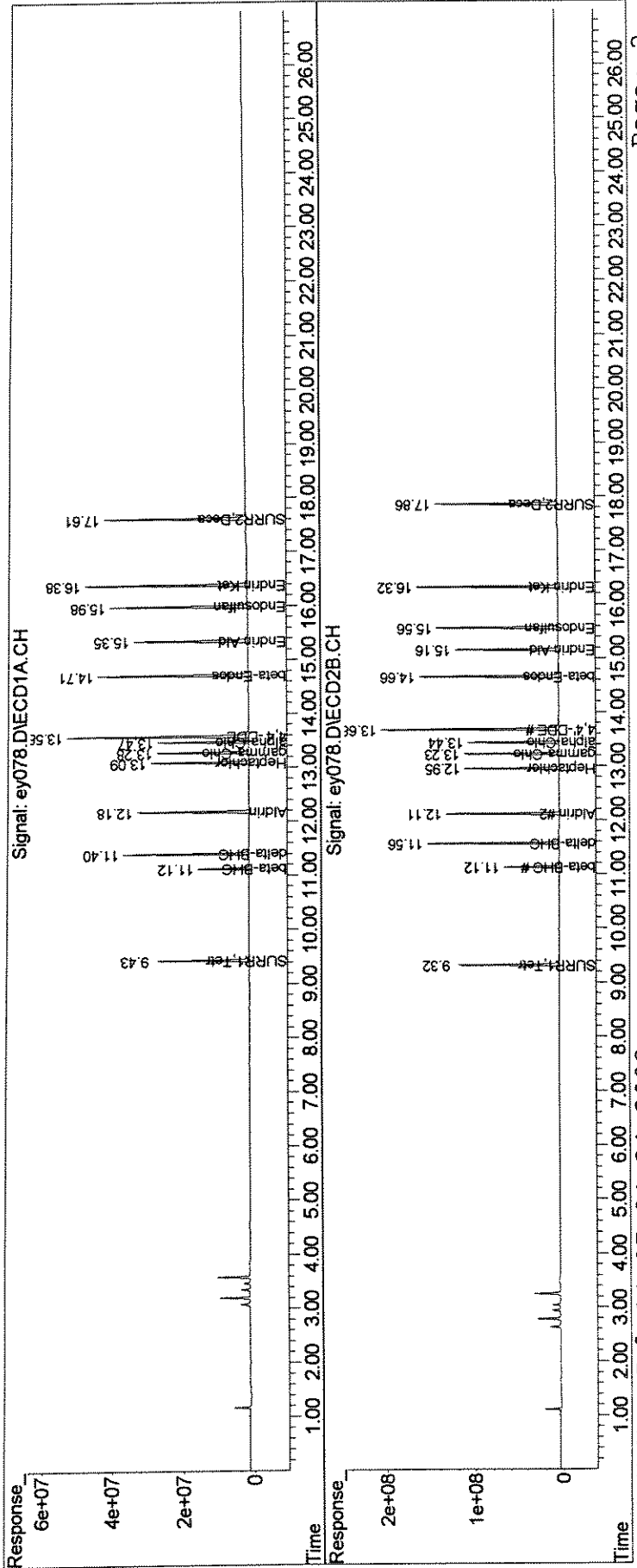
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	415.4E6	1714.0E6	20.584	21.181
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.58%#	21.18%#
5) S SURR2,Decachloro	17.61	17.86	725.3E6	2315.6E6	41.527	42.044
Spiked Amount	100.000	Range 30 - 150	Recovery =		41.53%	42.04%
Target Compounds						
5) tcm Aldrin	12.18	12.11	510.4E6	1913.1E6	20.616	21.001
7) tc beta-BHC	11.12	11.12	227.1E6	928.4E6	19.781	20.573
3) tc delta-BHC	11.40	11.56	556.3E6	2158.1E6	20.454	20.903
9) tc Heptachlor E	13.09	12.95	468.2E6	1675.7E6	20.571	20.843
1) tc gamma-Chlord	13.28	13.23	450.4E6	1727.4E6	20.543	21.059
2) tc alpha-Chlord	13.47	13.44	436.6E6	1651.2E6	20.413	21.259
3) tc 4,4'-DDE	13.58	13.68	910.0E6	3270.1E6	41.781	42.661
7) tc beta-Endosul	14.71	14.66	774.1E6	2699.7E6	41.642	42.053
0) tc Endrin Aldeh	15.35	15.16	609.0E6	2060.7E6	41.492	42.014
1) tc Endosulfan S	15.99	15.56	695.7E6	2395.9E6	41.296	41.925
4) tc Endrin Keton	16.38	16.32	800.4E6	2637.9E6	41.336	42.050
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey078.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 5:16 pm
 Operator : M.PEDRO
 Sample : ccv2b
 Misc : indbm
 ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:24:17 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01550

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : ey092.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 14 Jul 2008 6:09 pm
 Operator : M.PEDRO
 Sample : ccv4a
 Misc : indam
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 12:37:18 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1,Tetrac	20.181	19.974 E6	1.0	99	0.00
3 tc alpha-BHC	30.916	31.292 E6	-1.2	100	0.00
4 tcm gamma-BHC (L	28.206	28.600 E6	-1.4	100	0.00
5 tcm Heptachlor	27.944	28.257 E6	-1.1	100	0.00
10 tc alpha-Endosu	20.460	20.848 E6	-1.9	102	0.00
14 tcm Dieldrin	22.843	23.674 E6	-3.6	102	0.00
15 tcm Endrin	20.719	20.684 E6	0.2	99	0.00
18 tc 4,4'-DDD	17.994	18.286 E6	-1.6	104	0.00
19 tcm 4,4'-DDT	19.138	19.818 E6	-3.6	101	0.00
22 tc Methoxychlor	9.313	9.543 E6	-2.5	101	0.00
25 S SURR2,Decachlorobiphenyl	17.465	17.981 E6	-3.0	102	0.00

Signal #2

1 S SURR1,Tetrac	80.920	83.835 E6	-3.6	103	0.00
3 tc alpha-BHC	118.675	123.237 E6	-3.8	102	0.00
4 tcm gamma-BHC (L	105.076	108.827 E6	-3.6	102	0.00
5 tcm Heptachlor	100.362	104.827 E6	-4.4	103	0.00
10 tc alpha-Endosu	70.973	74.972 E6	-5.6	103	0.00
14 tcm Dieldrin	78.244	82.574 E6	-5.5	103	0.00
15 tcm Endrin	67.355	69.919 E6	-3.8	99	0.00
18 tc 4,4'-DDD	62.240	64.977 E6	-4.4	103	0.00
19 tcm 4,4'-DDT	65.507	68.699 E6	-4.9	103	0.00
22 tc Methoxychlor	29.053	30.411 E6	-4.7	103	0.00
25 S SURR2,Decachlorobiphenyl	55.075	58.546 E6	-6.3	105	0.00

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
6 tcm Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : ey092.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 14 Jul 2008 6:09 pm
 Operator : M.PEDRO
 Sample : ccv4a
 Misc : indam
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 12:37:18 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

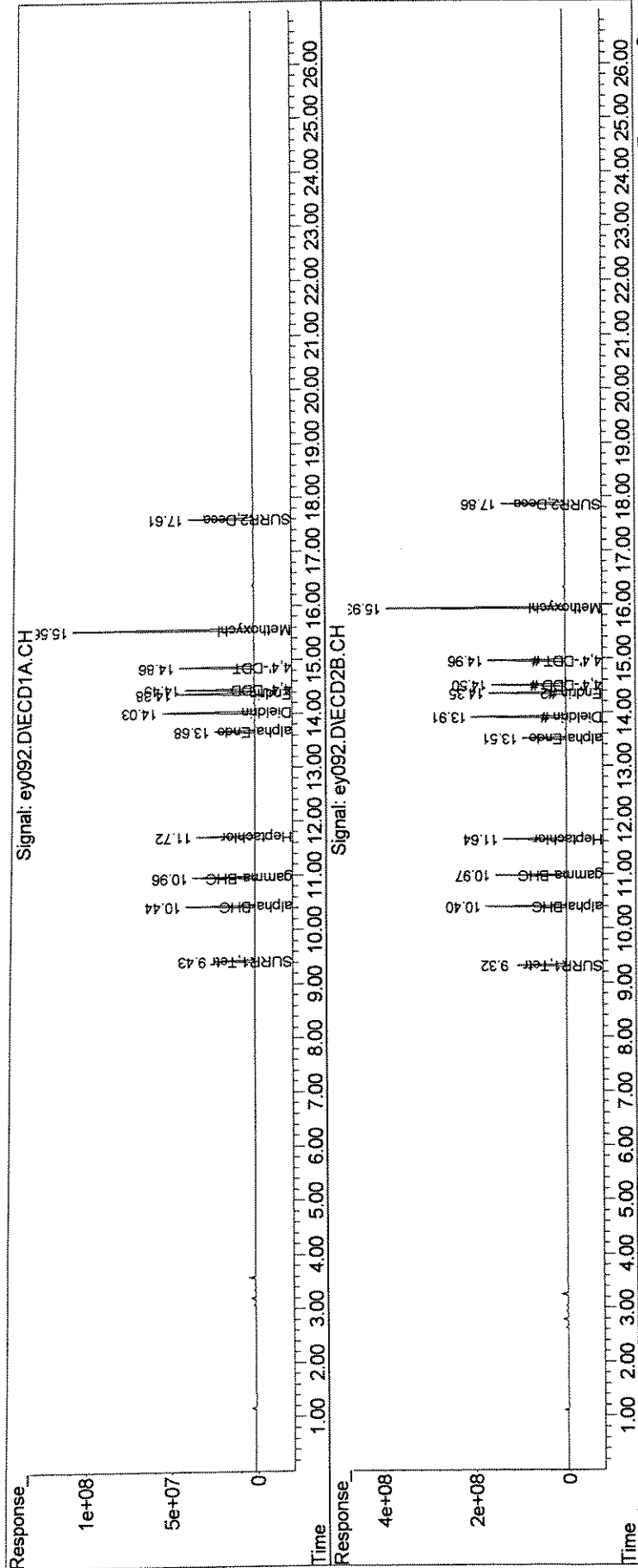
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	399.5E6	1676.7E6	19.795	20.720 ^{2/16}
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.80%#	20.72%#
5) S SURR2,Decachloro	17.61	17.86	719.2E6	2341.9E6	41.181	42.521
Spiked Amount	100.000	Range 30 - 150	Recovery =		41.18%	42.52%
Target Compounds						
3) tc alpha-BHC	10.44	10.40	625.8E6	2464.7E6	20.243	20.769
4) tcm gamma-BHC (L	10.96	10.97	572.0E6	2176.5E6	20.279	20.714
5) tcm Heptachlor	11.72	11.64	565.1E6	2096.5E6	20.224	20.890
0) tc alpha-Endosu	13.68	13.51	417.0E6	1499.4E6	20.380	21.127
4) tcm Dieldrin	14.03	13.91	947.0E6	3303.0E6	41.456	42.214
5) tcm Endrin	14.38	14.35	827.3E6	2796.7E6	39.932	41.522
8) tc 4,4'-DDD	14.45	14.50	731.4E6	2599.1E6	40.650	41.759
9) tcm 4,4'-DDT	14.86	14.96	792.7E6	2748.0E6	41.422	41.949
2) tc Methoxychlor	15.56	15.93	1908.7E6	6082.3E6	204.954	209.348
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : ey092.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 14 Jul 2008 6:09 pm
 Operator : M.PEDRO
 Sample : ccv4a
 Misc : indam
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 12:37:18 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\071408\
 Data File : ey093.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 14 Jul 2008 6:45 pm
 Operator : M.PEDRO
 Sample : ccv4b
 Misc : indbm
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 12:38:11 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	20.181	20.575 E6	-2.0	102	0.00
6 tcm Aldrin	24.759	25.402 E6	-2.6	102	0.00
7 tc beta-BHC	11.483	11.455 E6	0.2	102	0.00
8 TC delta-BHC	27.198	27.607 E6	-1.5	101	0.00
9 tc Heptachlor E	22.762	23.387 E6	-2.7	102	0.00
11 tc gamma-Chlord	21.924	22.515 E6	-2.7	103	0.00
12 tc alpha-Chlord	21.387	21.768 E6	-1.8	102	0.00
13 tc 4,4'-DDE	21.781	22.573 E6	-3.6	103	0.00
17 tc beta-Endosul	18.589	19.063 E6	-2.5	102	0.00
20 tc Endrin Aldeh	14.678	14.850 E6	-1.2	100	0.00
21 tc Endosulfan S	16.846	17.311 E6	-2.8	103	0.00
24 tc Endrin Keton	19.363	20.092 E6	-3.8	104	0.00
25 S SURR2,Decachlorobiphenyl	17.465	18.081 E6	-3.5	103	0.00

M
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Signal #2

1 S SURR1,Tetrac	80.920	86.275 E6	-6.6	105	0.00
6 tcm Aldrin	91.095	95.314 E6	-4.6	103	0.00
7 tc beta-BHC	45.130	46.190 E6	-2.3	102	0.00
8 tc delta-BHC	103.241	106.555 E6	-3.2	102	0.00
9 tc Heptachlor E	80.396	83.114 E6	-3.4	102	0.00
11 tc gamma-Chlord	82.026	85.209 E6	-3.9	103	0.00
12 tc alpha-Chlord	77.670	80.931 E6	-4.2	103	0.00
13 tc 4,4'-DDE	76.653	80.571 E6	-5.1	103	0.00
17 tc beta-Endosul	64.198	67.863 E6	-5.7	104	0.00
20 tc Endrin Aldeh	49.048	50.114 E6	-2.2	101	0.00
21 tc Endosulfan S	57.148	59.786 E6	-4.6	103	0.00
24 tc Endrin Keton	62.732	66.072 E6	-5.3	104	0.00
25 S SURR2,Decachlorobiphenyl	55.075	58.587 E6	-6.4	105	0.00

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : ey093.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 14 Jul 2008 6:45 pm
 Operator : M.PEDRO
 Sample : ccv4b
 Misc : indbm
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 12:38:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

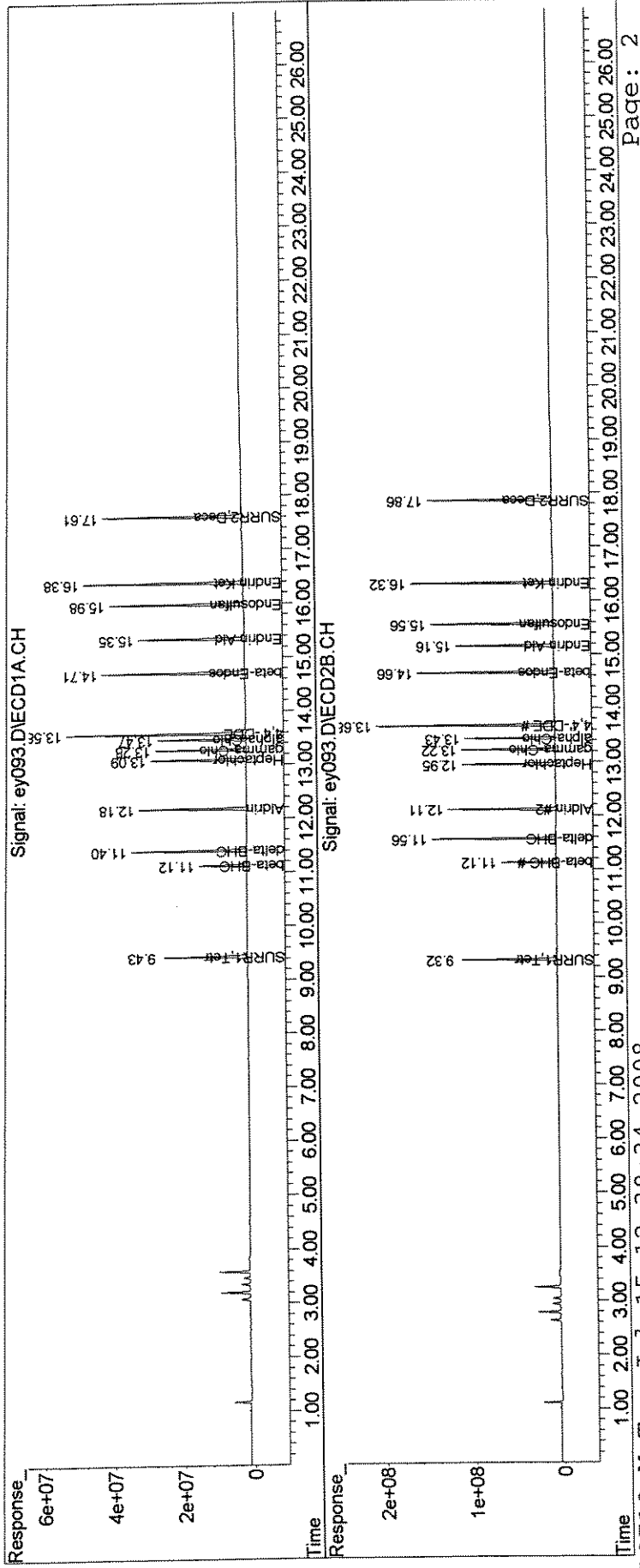
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	411.5E6	1725.5E6	20.391	21.324
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.39%#	21.32%#
5) S SURR2,Decachloro	17.61	17.86	723.2E6	2343.5E6	41.410	42.551
Spiked Amount	100.000	Range	30 - 150	Recovery =	41.41%	42.55%
Target Compounds						
5) tcm Aldrin	12.18	12.11	508.0E6	1906.3E6	20.519	20.926
7) tc beta-BHC	11.12	11.12	229.1E6	923.8E6	19.951	20.470
8) tc delta-BHC	11.40	11.56	552.1E6	2131.1E6	20.301	20.642
9) tc Heptachlor E	13.09	12.95	467.7E6	1662.3E6	20.550	20.676
1) tc gamma-Chlord	13.28	13.23	450.3E6	1704.2E6	20.539	20.776
2) tc alpha-Chlord	13.47	13.43	435.4E6	1618.6E6	20.356	20.840
3) tc 4,4'-DDE	13.58	13.68	902.9E6	3222.8E6	41.454	42.044
7) tc beta-Endosul	14.71	14.66	762.5E6	2714.5E6	41.021	42.284
0) tc Endrin Aldeh	15.35	15.16	594.0E6	2004.5E6	40.470	40.869
1) tc Endosulfan S	15.98	15.56	692.4E6	2391.4E6	41.103	41.846
4) tc Endrin Keton	16.38	16.32	803.7E6	2642.9E6	41.506	42.130
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : ey093.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 14 Jul 2008 6:45 pm
 Operator : M.PEDRO
 Sample : ccv4b
 Misc : indbm
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 12:38:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\071408\
 Data File : ey104.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 15 Jul 2008 1:16 am
 Operator : M.PEDRO
 Sample : ccv5a
 Misc : indam
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 13:02:38 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1,Tetrac	20.181	20.189 E6	-0.0	100	0.00
3 tc alpha-BHC	30.916	30.953 E6	-0.1	99	0.00
4 tcm gamma-BHC (L	28.206	28.268 E6	-0.2	99	0.00
5 tcm Heptachlor	27.944	28.380 E6	-1.6	101	0.00
10 tc alpha-Endosu	20.460	20.828 E6	-1.8	102	0.00
14 tcm Dieldrin	22.843	23.639 E6	-3.5	102	0.00
15 tcm Endrin	20.719	20.611 E6	0.5	98	0.00
18 tc 4,4'-DDD	17.994	18.165 E6	-1.0	103	0.00
19 tcm 4,4'-DDT	19.138	20.074 E6	-4.9	103	0.00
22 tc Methoxychlor	9.313	9.537 E6	-2.4	101	0.00
25 S SURR2,Decachlorobiphenyl	17.465	17.926 E6	-2.6	102	0.00

Signal #2

1 S SURR1,Tetrac	80.920	87.513 E6	-8.1	107	0.00
3 tc alpha-BHC	118.675	128.774 E6	-8.5	107	0.00
4 tcm gamma-BHC (L	105.076	114.158 E6	-8.6	107	0.00
5 tcm Heptachlor	100.362	110.772 E6	-10.4	108	0.00
10 tc alpha-Endosu	70.973	79.058 E6	-11.4	108	0.00
14 tcm Dieldrin	78.244	87.191 E6	-11.4	109	0.00
15 tcm Endrin	67.355	72.711 E6	-8.0	103	0.00
18 tc 4,4'-DDD	62.240	67.456 E6	-8.4	107	0.00
19 tcm 4,4'-DDT	65.507	72.426 E6	-10.6	109	0.00
22 tc Methoxychlor	29.053	31.562 E6	-8.6	107	0.00
25 S SURR2,Decachlorobiphenyl	55.075	60.433 E6	-9.7	109	0.00

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
6 tcm Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : ey104.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 15 Jul 2008 1:16 am
 Operator : M.PEDRO
 Sample : ccv5a
 Misc : indam
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 13:02:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

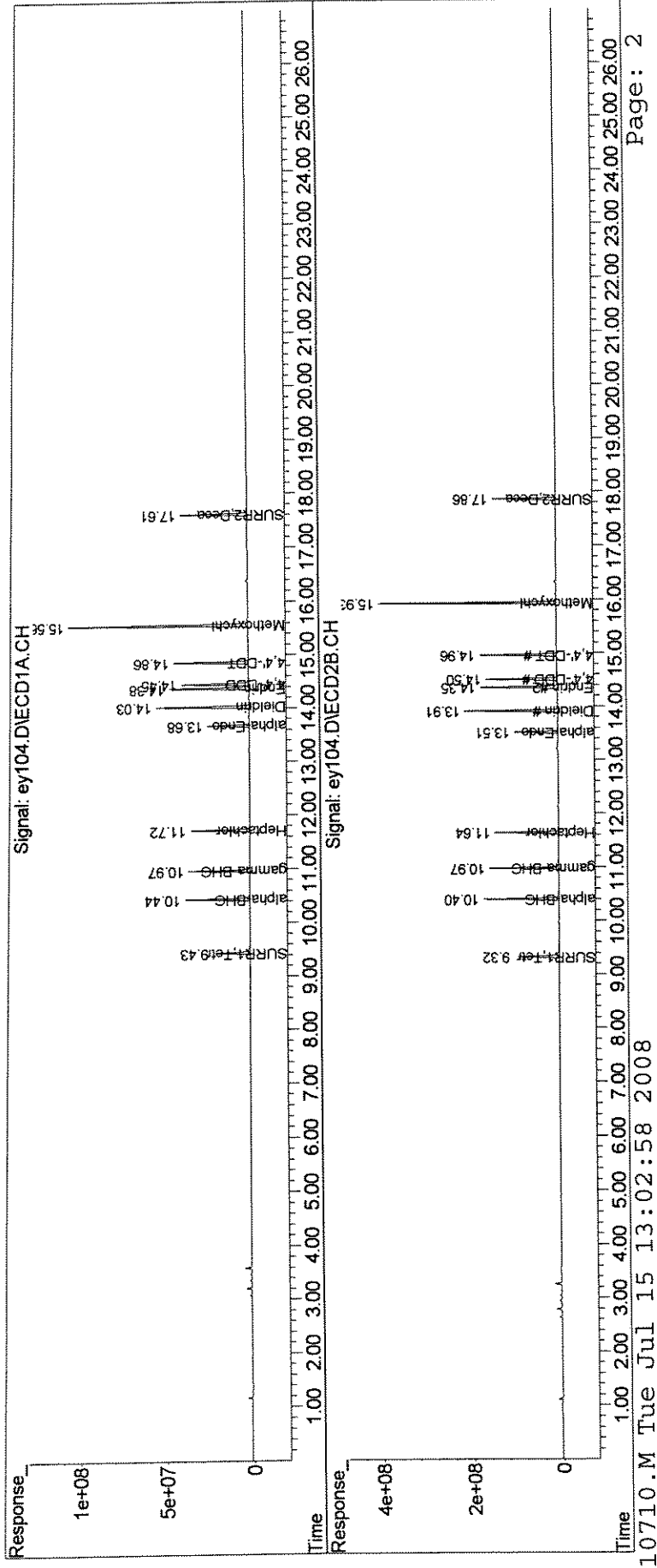
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	403.8E6	1750.3E6	20.008	21.629
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.01%#	21.63%#
5) S SURR2,Decachloro	17.61	17.86	717.0E6	2417.3E6	41.054	43.891
Spiked Amount	100.000	Range 30 - 150	Recovery =		41.05%	43.89% <i>1/15</i>
Target Compounds						
3) tc alpha-BHC	10.44	10.40	619.1E6	2575.5E6	20.024	21.702
4) tcm gamma-BHC (L)	10.97	10.97	565.4E6	2283.2E6	20.044	21.729
5) tcm Heptachlor	11.72	11.64	567.6E6	2215.4E6	20.312	22.074
0) tc alpha-Endosu	13.68	13.51	416.6E6	1581.2E6	20.360	22.278
4) tcm Dieldrin	14.03	13.91	945.6E6	3487.6E6	41.395	44.574
5) tcm Endrin	14.38	14.35	824.5E6	2908.5E6	39.793	43.181
8) tc 4,4'-DDD	14.45	14.50	726.6E6	2698.2E6	40.382	43.353
9) tcm 4,4'-DDT	14.86	14.96	803.0E6	2897.0E6	41.957	44.225
2) tc Methoxychlor	15.56	15.93	1907.4E6	6312.4E6	204.814	217.270
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : ey104.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 15 Jul 2008 1:16 am
 Operator : M.PEDRO
 Sample : ccv5a
 Misc : indam
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 13:02:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : ey105.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 15 Jul 2008 1:51 am
 Operator : M.PEDRO
 Sample : ccv5b
 Misc : indbm
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 13:03:31 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	20.181	20.731 E6	-2.7	102	0.00
6 tcm Aldrin	24.759	25.493 E6	-3.0	102	0.00
7 tc beta-BHC	11.483	11.697 E6	-1.9	104	0.00
8 TC delta-BHC	27.198	27.023 E6	0.6	99	0.00
9 tc Heptachlor E	22.762	23.219 E6	-2.0	102	0.00
11 tc gamma-Chlord	21.924	22.952 E6	-4.7	105	0.00
12 tc alpha-Chlord	21.387	21.681 E6	-1.4	102	0.00
13 tc 4,4'-DDE	21.781	22.417 E6	-2.9	102	0.00
17 tc beta-Endosul	18.589	19.191 E6	-3.2	103	0.00
20 tc Endrin Aldeh	14.678	14.968 E6	-2.0	101	0.00
21 tc Endosulfan S	16.846	17.308 E6	-2.7	103	0.00
24 tc Endrin Keton	19.363	20.023 E6	-3.4	103	0.00
25 S SURR2,Decachlorobiphenyl	17.465	18.095 E6	-3.6	103	0.00

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Signal #2

1 S SURR1,Tetrac	80.920	90.122 E6	-11.4	110	0.00
6 tcm Aldrin	91.095	100.170 E6	-10.0	108	0.00
7 tc beta-BHC	45.130	48.243 E6	-6.9	107	0.00
8 tc delta-BHC	103.241	109.785 E6	-6.3	105	0.00
9 tc Heptachlor E	80.396	86.744 E6	-7.9	106	0.00
11 tc gamma-Chlord	82.026	91.800 E6	-11.9	111	0.00
12 tc alpha-Chlord	77.670	85.162 E6	-9.6	109	0.00
13 tc 4,4'-DDE	76.653	83.953 E6	-9.5	107	0.00
17 tc beta-Endosul	64.198	69.859 E6	-8.8	107	0.00
20 tc Endrin Aldeh	49.048	52.482 E6	-7.0	105	0.00
21 tc Endosulfan S	57.148	61.871 E6	-8.3	107	0.00
24 tc Endrin Keton	62.732	68.611 E6	-9.4	108	0.00
25 S SURR2,Decachlorobiphenyl	55.075	60.788 E6	-10.4	109	0.00

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : ey105.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 15 Jul 2008 1:51 am
 Operator : M.PEDRO
 Sample : ccv5b
 Misc : indbm
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 13:03:31 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

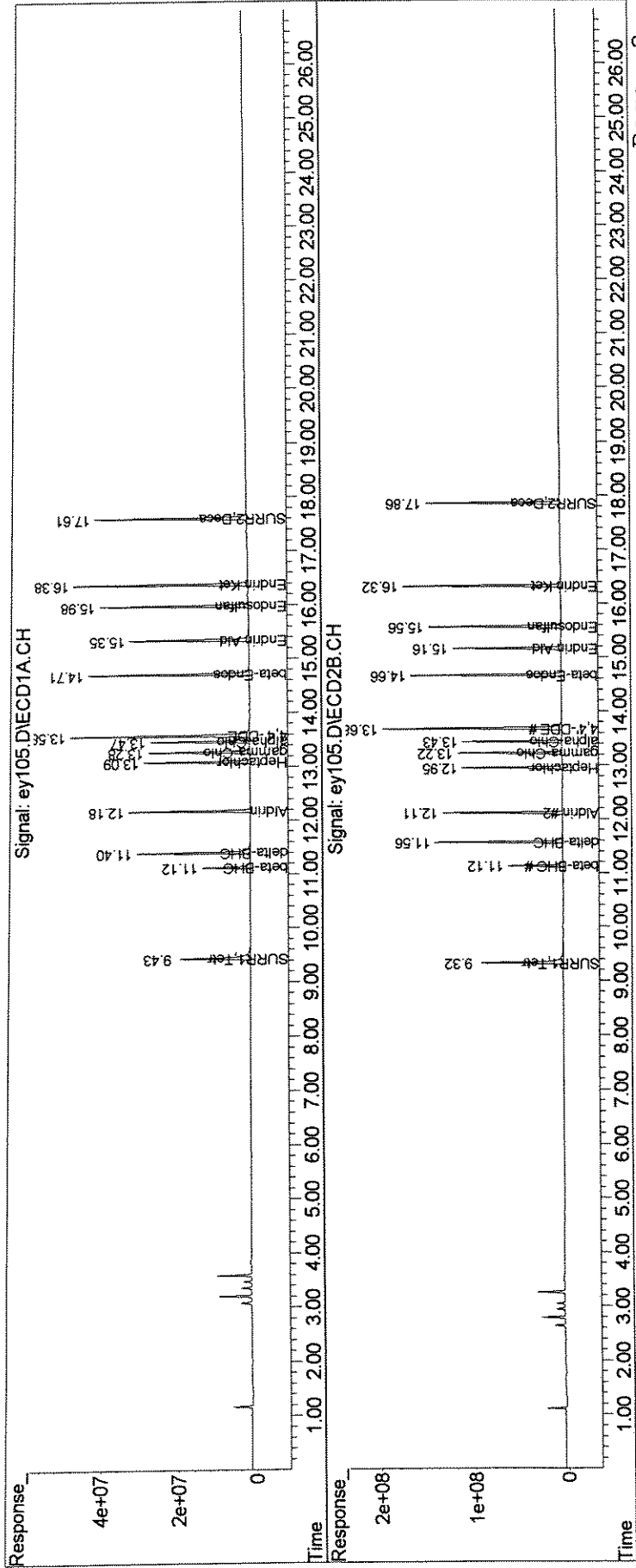
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	414.6E6	1802.4E6	20.545	22.274
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.55%#	22.27%#
5) S SURR2,Decachloro	17.61	17.86	723.8E6	2431.5E6	41.442	44.149
Spiked Amount	100.000	Range 30 - 150	Recovery =		41.44%	44.15%
Target Compounds						
5) tcm Aldrin	12.18	12.11	509.9E6	2003.4E6	20.593	21.992
7) tc beta-BHC	11.12	11.12	233.9E6	964.9E6	20.373	21.380
3) tc delta-BHC	11.40	11.56	540.5E6	2195.7E6	19.871	21.268
9) tc Heptachlor E	13.09	12.95	464.4E6	1734.9E6	20.402	21.579
1) tc gamma-Chlord	13.28	13.22	459.0E6	1836.0E6	20.938	22.383
2) tc alpha-Chlord	13.47	13.43	433.6E6	1703.2E6	20.275	21.929
3) tc 4,4'-DDE	13.58	13.68	896.7E6	3358.1E6	41.167	43.809
7) tc beta-Endosul	14.71	14.66	767.7E6	2794.3E6	41.297	43.527
0) tc Endrin Aldeh	15.35	15.16	598.7E6	2099.3E6	40.791	42.801
1) tc Endosulfan S	15.98	15.56	692.3E6	2474.8E6	41.097	43.306
4) tc Endrin Keton	16.38	16.32	800.9E6	2744.5E6	41.364	43.749
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071408\
 Data File : ey105.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 15 Jul 2008 1:51 am
 Operator : M.PEDRO
 Sample : ccv5b
 Misc : indbm
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 15 13:03:31 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey132.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 3:14 pm
 Operator : M.PEDRO
 Sample : ccv8a
 Misc : indam
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:37:03 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	20.181	19.606 E6	2.8	95	0.00
3 tc alpha-BHC	30.916	31.240 E6	-1.0	96	0.00
4 tcm gamma-BHC (L	28.206	28.232 E6	-0.1	96	0.00
5 tcm Heptachlor	27.944	27.812 E6	0.5	97	0.00
10 tc alpha-Endosu	20.460	20.493 E6	-0.2	97	0.00
14 tcm Dieldrin	22.843	23.165 E6	-1.4	97	0.00
15 tcm Endrin	20.719	19.727 E6	4.8	91	-0.01
18 tc 4,4'-DDD	17.994	18.129 E6	-0.8	97	0.00
19 tcm 4,4'-DDT	19.138	19.425 E6	-1.5	97	0.00
22 tc Methoxychlor	9.313	8.866 E6	4.8	94	0.00
25 S SURR2,Decachlorobiphenyl	17.465	16.279 E6	6.8	94	0.00

Signal #2

1 S SURR1,Tetrac	80.920	79.843 E6	1.3	100	0.00
3 tc alpha-BHC	118.675	119.222 E6	-0.5	99	0.00
4 tcm gamma-BHC (L	105.076	105.347 E6	-0.3	99	0.00
5 tcm Heptachlor	100.362	99.720 E6	0.6	101	0.00
10 tc alpha-Endosu	70.973	71.260 E6	-0.4	100	0.00
14 tcm Dieldrin	78.244	77.303 E6	1.2	99	0.00
15 tcm Endrin	67.355	64.785 E6	3.8	95	0.00
18 tc 4,4'-DDD	62.240	58.958 E6	5.3	94	0.00
19 tcm 4,4'-DDT	65.507	63.181 E6	3.6	95	0.00
22 tc Methoxychlor	29.053	29.210 E6	-0.5	102	0.00
25 S SURR2,Decachlorobiphenyl	55.075	52.601 E6	4.5	97	0.00

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLORO BENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
6 tcm Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQU\DATA\6890D\DATA\071608\
 Data File : ey132.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 3:14 pm
 Operator : M.PEDRO
 Sample : ccv8a
 Misc : indam
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:37:03 2008
 Quant Method : J:\ACQU\DATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

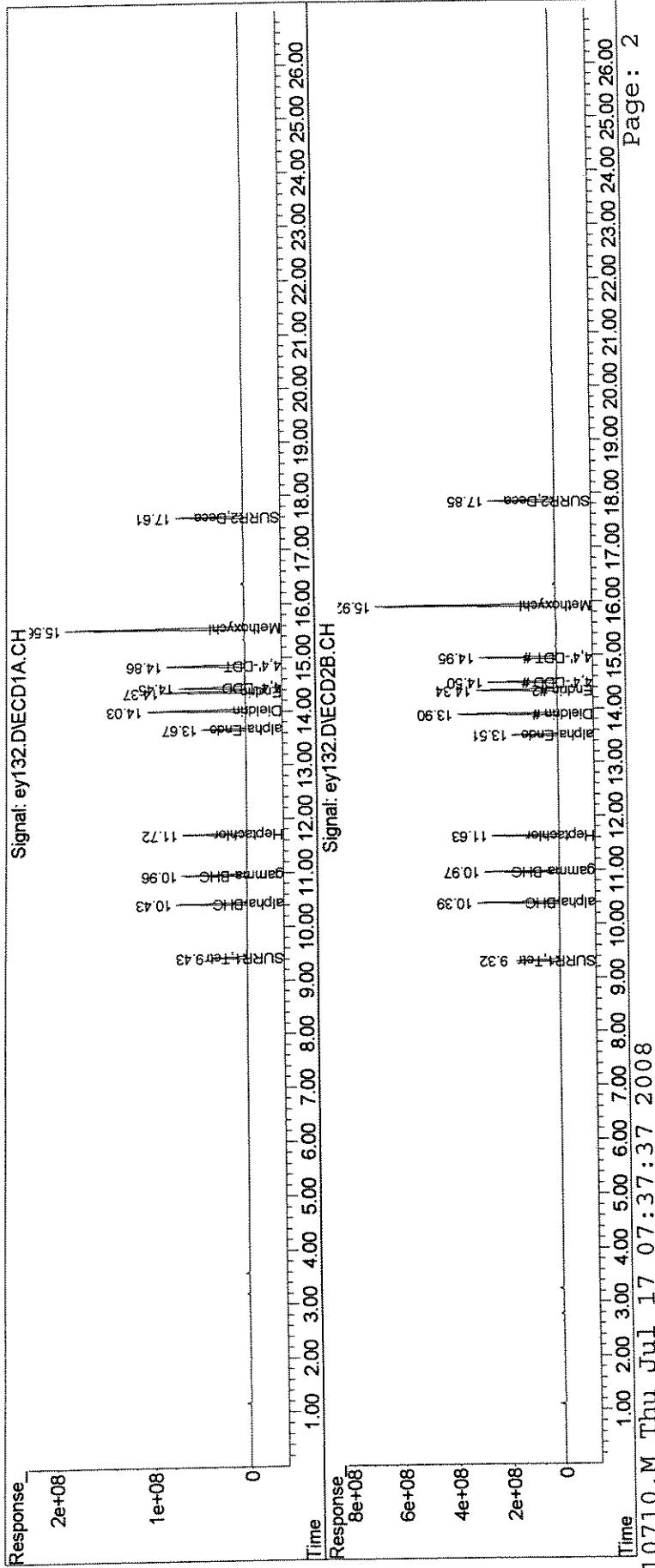
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	784.3E6	3193.7E6	38.862	39.467
Spiked Amount	100.000	Range 30 - 150	Recovery =		38.86%	39.47%
5) S SURR2,Decachloro	17.61	17.85	1302.3E6	4208.1E6	74.564	76.406
Spiked Amount	100.000	Range 30 - 150	Recovery =		74.56%	76.41%
Target Compounds						
3) tc alpha-BHC	10.44	10.39	1249.6E6	4768.9E6	40.419	40.185
4) tcm gamma-BHC (L	10.96	10.97	1129.3E6	4213.9E6	40.036	40.103
5) tcm Heptachlor	11.72	11.63	1112.5E6	3988.8E6	39.811	39.744
0) tc alpha-Endosu	13.67	13.51	819.7E6	2850.4E6	40.065	40.162
4) tcm Dieldrin	14.03	13.90	1853.2E6	6184.2E6	81.130	79.038
5) tcm Endrin	14.37	14.35	1578.1E6	5182.8E6	76.168	76.947
8) tc 4,4'-DDD	14.45	14.50	1450.3E6	4716.6E6	80.603	75.782
9) tcm 4,4'-DDT	14.86	14.95	1554.0E6	5054.5E6	81.201	77.159
2) tc Methoxychlor	15.56	15.92	3546.3E6	11683.9E6	380.802	402.155
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\071608\
 Data File : ey132.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 3:14 pm
 Operator : M.PEDRO
 Sample : ccv8a
 Misc : indam
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:37:03 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey133.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 3:50 pm
 Operator : M.PEDRO
 Sample : ccv8b
 Misc : indbmh
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:38:27 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1,Tetrac	20.181	19.717 E6	2.3	95	0.00
6 tcm Aldrin	24.759	24.945 E6	-0.8	97	0.00
7 tc beta-BHC	11.483	11.236 E6	2.2	98	0.00
8 TC delta-BHC	27.198	27.370 E6	-0.6	96	0.00
9 tc Heptachlor E	22.762	22.579 E6	0.8	98	0.00
11 tc gamma-Chlord	21.924	22.096 E6	-0.8	99	0.00
12 tc alpha-Chlord	21.387	21.460 E6	-0.3	99	0.00
13 tc 4,4'-DDE	21.781	21.374 E6	1.9	95	0.00
17 tc beta-Endosul	18.589	18.659 E6	-0.4	98	0.00
20 tc Endrin Aldehy	14.678	14.145 E6	3.6	95	0.00
21 tc Endosulfan S	16.846	16.785 E6	0.4	98	0.00
24 tc Endrin Keton	19.363	19.243 E6	0.6	97	0.00
25 S SURR2,Decachlorobiphenyl	17.465	16.722 E6	4.3	96	0.00

Signal #2

1 S SURR1,Tetrac	80.920	83.548 E6	-3.2	104	0.00
6 tcm Aldrin	91.095	90.166 E6	1.0	99	0.00
7 tc beta-BHC	45.130	43.790 E6	3.0	99	0.00
8 tc delta-BHC	103.241	101.222 E6	2.0	97	0.00
9 tc Heptachlor E	80.396	79.412 E6	1.2	100	0.00
11 tc gamma-Chlord	82.026	80.750 E6	1.6	98	0.00
12 tc alpha-Chlord	77.670	76.333 E6	1.7	98	0.00
13 tc 4,4'-DDE	76.653	74.636 E6	2.6	97	0.00
17 tc beta-Endosul	64.198	62.065 E6	3.3	98	0.00
20 tc Endrin Aldehy	49.048	45.877 E6	6.5	94	0.00
21 tc Endosulfan S	57.148	55.935 E6	2.1	98	0.00
24 tc Endrin Keton	62.732	62.813 E6	-0.1	100	0.00
25 S SURR2,Decachlorobiphenyl	55.075	53.777 E6	2.4	99	0.00

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey133.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 3:50 pm
 Operator : M.PEDRO
 Sample : ccv8b
 Misc : indbmh
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:38:27 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

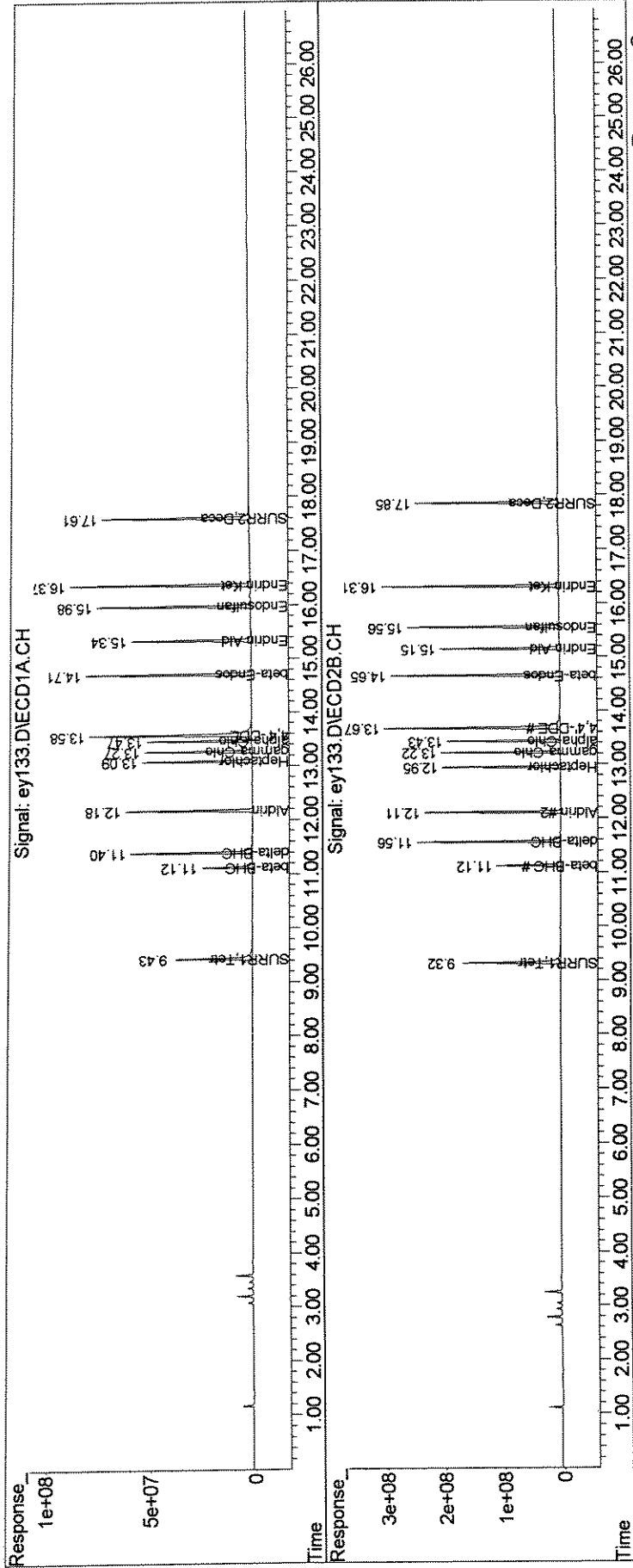
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	788.7E6	3341.9E6	39.081	41.299
Spiked Amount	100.000	Range 30 - 150	Recovery =		39.08%	41.30%
5) S SURR2,Decachloro	17.61	17.85	1337.8E6	4302.2E6	76.596	78.114
Spiked Amount	100.000	Range 30 - 150	Recovery =		76.60%	78.11%
Target Compounds						
6) tcm Aldrin	12.18	12.11	997.8E6	3606.7E6	40.301	39.592
7) tc beta-BHC	11.12	11.12	449.4E6	1751.6E6	39.139	38.812
8) tc delta-BHC	11.40	11.56	1094.8E6	4048.9E6	40.252	39.218
9) tc Heptachlor E	13.09	12.95	903.2E6	3176.5E6	39.679	39.510
1) tc gamma-Chlord	13.27	13.22	883.8E6	3230.0E6	40.313	39.378
2) tc alpha-Chlord	13.47	13.43	858.4E6	3053.3E6	40.135	39.311
3) tc 4,4'-DDE	13.58	13.67	1709.9E6	5970.9E6	78.505	77.895
7) tc beta-Endosul	14.71	14.65	1492.7E6	4965.2E6	80.302	77.343
0) tc Endrin Aldeh	15.34	15.15	1131.6E6	3670.2E6	77.096	74.829
1) tc Endosulfan S	15.98	15.56	1342.8E6	4474.8E6	79.709	78.302
4) tc Endrin Keton	16.37	16.31	1539.5E6	5025.0E6	79.506	80.103
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey133.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 3:50 pm
 Operator : M.PEDRO
 Sample : ccv8b
 Misc : indbmh
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:38:27 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal #1 Phase : STX-CLP Signal #2 Phase : STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



81598

Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\071608\
 Data File : ey144.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 10:21 pm
 Operator : M.PEDRO
 Sample : ccv9a
 Misc : indamh
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:55:22 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1,Tetrac	20.181	19.046 E6	5.6	92	0.00
3 tc alpha-BHC	30.916	30.593 E6	1.0	94	0.00
4 tcm gamma-BHC (L	28.206	27.780 E6	1.5	95	0.00
5 tcm Heptachlor	27.944	27.641 E6	1.1	96	0.00
10 tc alpha-Endosu	20.460	20.545 E6	-0.4	98	0.00
14 tcm Dieldrin	22.843	23.302 E6	-2.0	98	-0.01
15 tcm Endrin	20.719	18.984 E6	8.4	88	-0.01
18 tc 4,4'-DDD	17.994	17.929 E6	0.4	96	0.00
19 tcm 4,4'-DDT	19.138	19.581 E6	-2.3	98	0.00
22 tc Methoxychlor	9.313	8.714 E6	6.4	93	0.00
25 S SURR2,Decachlorobiphenyl	17.465	16.945 E6	3.0	98	0.00

Signal #2

1 S SURR1,Tetrac	80.920	82.221 E6	-1.6	103	0.00
3 tc alpha-BHC	118.675	119.941 E6	-1.1	100	0.00
4 tcm gamma-BHC (L	105.076	106.274 E6	-1.1	100	0.00
5 tcm Heptachlor	100.362	101.126 E6	-0.8	103	0.00
10 tc alpha-Endosu	70.973	72.458 E6	-2.1	102	-0.01
14 tcm Dieldrin	78.244	79.538 E6	-1.7	102	-0.01
15 tcm Endrin	67.355	63.878 E6	5.2	94	-0.01
18 tc 4,4'-DDD	62.240	61.591 E6	1.0	98	0.00
19 tcm 4,4'-DDT	65.507	65.993 E6	-0.7	99	0.00
22 tc Methoxychlor	29.053	29.514 E6	-1.6	103	0.00
25 S SURR2,Decachlorobiphenyl	55.075	56.677 E6	-2.9	104	-0.01

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
6 tcm Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUADATA\6890D\DATA\071608\
 Data File : ey144.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 10:21 pm
 Operator : M.PEDRO
 Sample : ccv9a
 Misc : indamh
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:55:22 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

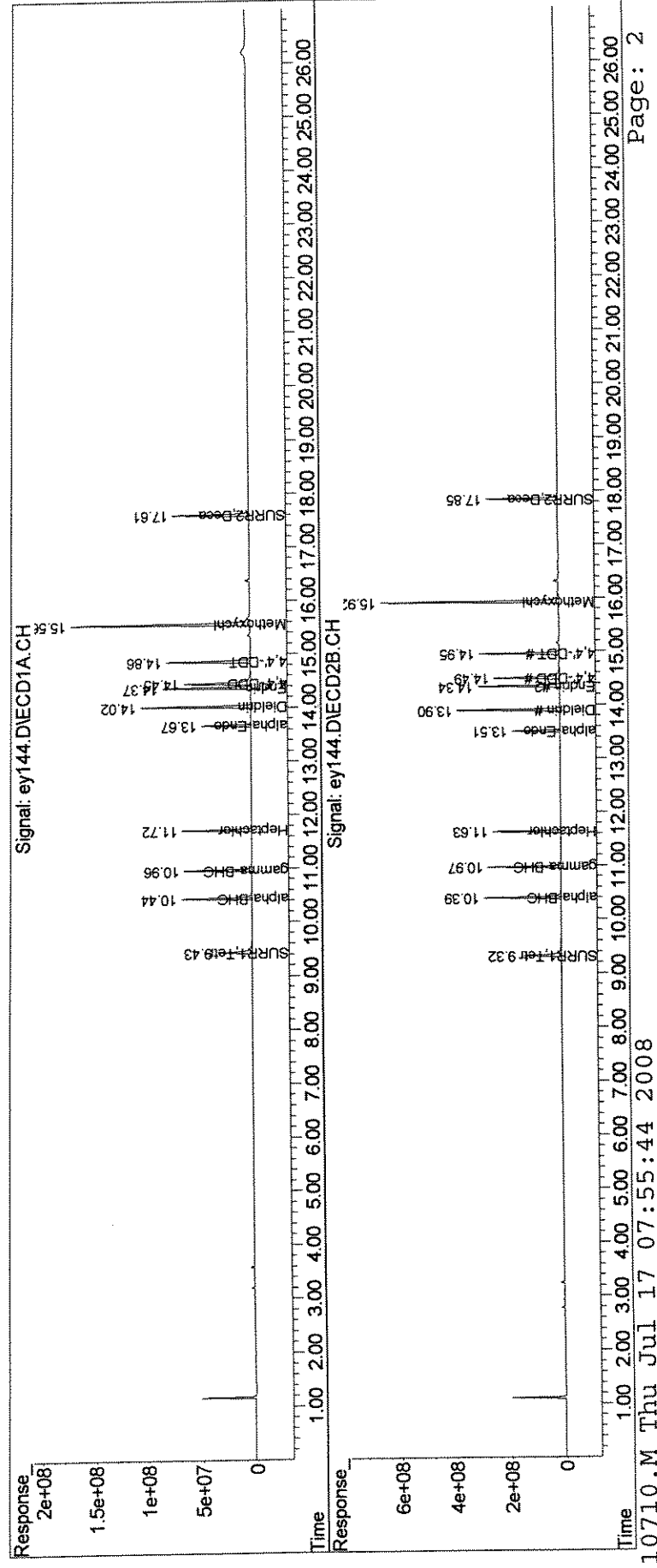
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	761.9E6	3288.8E6	37.752	40.643
Spiked Amount	100.000	Range 30 - 150	Recovery =		37.75%	40.64%
5) S SURR2,Decachloro	17.61	17.85	1355.6E6	4534.2E6	77.615	82.327
Spiked Amount	100.000	Range 30 - 150	Recovery =		77.61%	82.33%
Target Compounds						
3) tc alpha-BHC	10.44	10.39	1223.7E6	4797.7E6	39.582	40.427
4) tcm gamma-BHC (L	10.96	10.97	1111.2E6	4251.0E6	39.396	40.456
5) tcm Heptachlor	11.72	11.63	1105.6E6	4045.0E6	39.566	40.305
0) tc alpha-Endosu	13.67	13.51	821.8E6	2898.3E6	40.166	40.837
4) tcm Dieldrin	14.02	13.90	1864.1E6	6363.1E6	81.606	81.323
5) tcm Endrin	14.37	14.34	1518.7E6	5110.2E6	73.302	75.870
8) tc 4,4'-DDD	14.45	14.50	1434.3E6	4927.3E6	79.713	79.167
9) tcm 4,4'-DDT	14.86	14.95	1566.5E6	5279.5E6	81.853	80.594
2) tc Methoxychlor	15.56	15.92	3485.4E6	11805.5E6	374.265	406.338
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey144.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 10:21 pm
 Operator : M.PEDRO
 Sample : ccv9a
 Misc : indamh
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:55:22 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



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Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey145.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 10:57 pm
 Operator : M.PEDRO
 Sample : ccv9b
 Misc : indbmh
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:56:15 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,Tetrac	20.181	19.278 E6	4.5	93	0.00
6 tcm Aldrin	24.759	24.949 E6	-0.8	97	0.00
7 tc beta-BHC	11.483	11.038 E6	3.9	96	0.00
8 TC delta-BHC	27.198	26.399 E6	2.9	93	0.00
9 tc Heptachlor E	22.762	22.700 E6	0.3	98	0.00
11 tc gamma-Chlord	21.924	22.294 E6	-1.7	99	0.00
12 tc alpha-Chlord	21.387	21.636 E6	-1.2	99	0.00
13 tc 4,4'-DDE	21.781	21.084 E6	3.2	94	0.00
17 tc beta-Endosul	18.589	19.178 E6	-3.2	101	0.00
20 tc Endrin Aldehy	14.678	14.485 E6	1.3	97	0.00
21 tc Endosulfan S	16.846	17.130 E6	-1.7	100	0.00
24 tc Endrin Keton	19.363	19.780 E6	-2.2	100	0.00
25 S SURR2,Decachlorobiphenyl	17.465	17.307 E6	0.9	100	0.00

Signal #2

1 S SURR1,Tetrac	80.920	84.303 E6	-4.2	105	0.00
6 tcm Aldrin	91.095	92.739 E6	-1.8	102	0.00
7 tc beta-BHC	45.130	44.981 E6	0.3	101	0.00
8 tc delta-BHC	103.241	100.211 E6	2.9	96	0.00
9 tc Heptachlor E	80.396	81.236 E6	-1.0	103	0.00
11 tc gamma-Chlord	82.026	82.606 E6	-0.7	100	0.00
12 tc alpha-Chlord	77.670	78.557 E6	-1.1	101	0.00
13 tc 4,4'-DDE	76.653	77.646 E6	-1.3	101	0.00
17 tc beta-Endosul	64.198	64.933 E6	-1.1	103	0.00
20 tc Endrin Aldehy	49.048	48.473 E6	1.2	100	-0.01
21 tc Endosulfan S	57.148	58.474 E6	-2.3	103	0.00
24 tc Endrin Keton	62.732	65.236 E6	-4.0	104	0.00
25 S SURR2,Decachlorobiphenyl	55.075	56.766 E6	-3.1	104	0.00

Data Path : J:\ACQUADATA\6890D\DATA\071608\
 Data File : ey145.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 10:57 pm
 Operator : M.PEDRO
 Sample : ccv9b
 Misc : indbmh
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:56:15 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

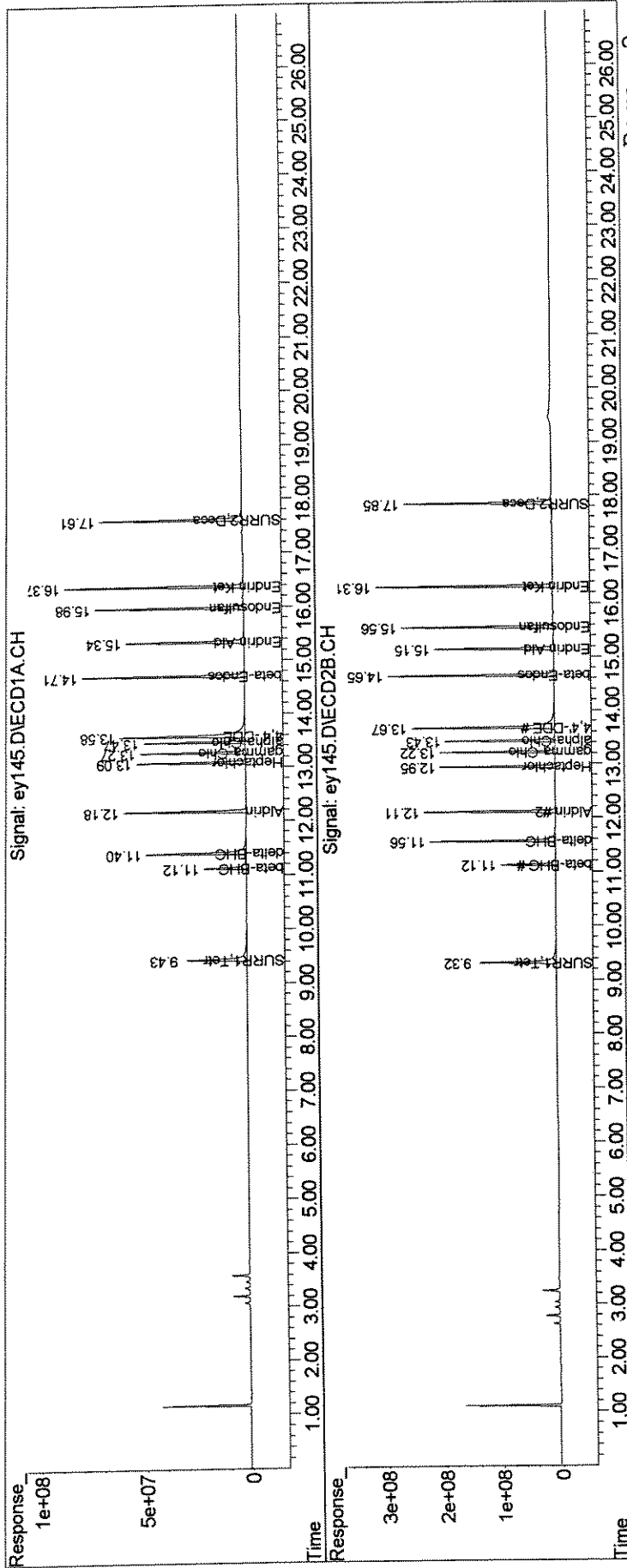
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	771.1E6	3372.1E6	38.211	41.672
Spiked Amount	100.000	Range 30 - 150	Recovery =		38.21%	41.67%
5) S SURR2,Decachloro	17.61	17.85	1384.6E6	4541.3E6	79.277	82.456
Spiked Amount	100.000	Range 30 - 150	Recovery =		79.28%	82.46%
Target Compounds						
6) tcm Aldrin	12.18	12.11	998.0E6	3709.6E6	40.307	40.722
7) tc beta-BHC	11.12	11.12	441.5E6	1799.2E6	38.449	39.868
8) tc delta-BHC	11.40	11.56	1055.9E6	4008.4E6	38.824	38.826
9) tc Heptachlor E	13.09	12.95	908.0E6	3249.4E6	39.892	40.418
1) tc gamma-Chlord	13.27	13.22	891.8E6	3304.2E6	40.675	40.283
2) tc alpha-Chlord	13.47	13.43	865.5E6	3142.3E6	40.466	40.457
3) tc 4,4'-DDE	13.58	13.67	1686.7E6	6211.6E6	77.440	81.036
7) tc beta-Endosul	14.71	14.65	1534.2E6	5194.7E6	82.535	80.917
0) tc Endrin Aldeh	15.35	15.15	1158.8E6	3877.9E6	78.948	79.063
1) tc Endosulfan S	15.98	15.56	1370.4E6	4677.9E6	81.345	81.856
4) tc Endrin Keton	16.38	16.31	1582.4E6	5218.8E6	81.723	83.193
Sum Toxaphene			0	0	N.D.	N.D.
verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
verage Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey145.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 10:57 pm
 Operator : M.PEDRO
 Sample : ccv9b
 Misc : indbmh
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:56:15 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



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*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

M-44B

Lab Name: Columbia Analytical Services Contract: ENSR
Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
Lab Sample ID 1112065 1. Date analyzed: 6/26/2008
Instrument ID: 6890D Instrument ID: 6890D
GC Column(1) STx-CLP (ID) 0.32mm 30m GC Column(2) STx-CLPII (ID) 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
Aldrin	1	11.97	11.96	12.06	0.04	
	2	11.78	11.76	11.86	0.05	12.25
alpha-BHC	1	10.26	10.23	10.33	0.01	
	2	10.09	10.07	10.17	0.02	15.74

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

H-49AB

Lab Name: Columbia Analytical Services Contract: ENSR
Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
Lab Sample ID 1112066 1. Date analyzed: 6/26/2008
Instrument ID: 6890D Instrument ID: 6890D
GC Column(1) STx-CLP (ID) 0.32mm 30m GC Column(2) STx-CLPII (ID) 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
<i>alpha-BHC</i>	1	10.26	10.23	10.33	0.07	
	2	10.09	10.07	10.17	0.07	1.93
<i>delta-BHC</i>	1	11.23	11.19	11.29	0.17	
	2	11.25	11.22	11.32	0.17	0.31
<i>gamma-BHC (L</i>	1	10.79	10.76	10.86	0.07	
	2	10.66	10.63	10.73	0.07	7.01
<i>Heptachlor E</i>	1	12.89	12.85	12.99	0.09	
	2	12.65	12.57	12.71	0.09	1.27

FORM X-CLP-PEST

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*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

MC-45B

Lab Name: Columbia Analytical Services Contract: ENSR
Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
Lab Sample ID 1112486 1.0 Date analyzed: 6/30/2008
Instrument ID: 6890D Instrument ID: 6890D
GC Column(1) STx-CLP (ID) 0.32mm 30m GC Column(2) STx-CLPII (ID) 0.32mm 30m


RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
alpha-BHC	1	10.26	10.23	10.33	1.11	
	2	10.09	10.07	10.17	0.96	14.31
beta-BHC	1	10.95	10.91	11.01	7.81	
	2	10.81	10.79	10.89	6.62	16.45
delta-BHC	1	11.23	11.19	11.29	0.58	
	2	11.25	11.22	11.32	0.53	9.73
gamma-BHC (L)	1	10.79	10.76	10.86	0.09	
	2	10.65	10.63	10.73	0.07	15.49
gamma-Chlord	1	13.09	13.03	13.17	0.12	
	2	12.89	12.84	12.98	0.23	62.73

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

MC-45B 

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112486 50.0 **Date analyzed:** 7/14/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>alpha-BHC</i>	<i>1</i>	10.44	10.39	10.49	1.01	
	<i>2</i>	10.40	10.35	10.45	1.23	19.83
<i>beta-BHC</i>	<i>1</i>	11.12	11.07	11.17	10.10	
	<i>2</i>	11.12	11.07	11.17	10.83	6.98
<i>delta-BHC</i>	<i>1</i>	11.40	11.35	11.45	0.50	
	<i>2</i>	11.56	11.51	11.61	0.71	34.56

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

MC-53B

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112487 1.0 **Date analyzed:** 6/30/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>alpha-BHC</i>	<i>1</i>	10.26	10.23	10.33	0.68	
	<i>2</i>	10.09	10.07	10.17	0.60	13.44
<i>beta-BHC</i>	<i>1</i>	10.95	10.91	11.01	2.23	
	<i>2</i>	10.82	10.79	10.89	2.16	3.17
<i>delta-BHC</i>	<i>1</i>	11.23	11.19	11.29	0.53	
	<i>2</i>	11.25	11.22	11.32	0.53	0.53
<i>gamma-BHC (L)</i>	<i>1</i>	10.79	10.76	10.86	0.07	
	<i>2</i>	10.65	10.63	10.73	0.07	3.47
<i>gamma-Chlord</i>	<i>1</i>	13.09	13.03	13.17	0.02	
	<i>2</i>	12.89	12.84	12.98	0.04	51.07

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

MC-53B

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112487 10. **Date analyzed:** 7/11/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
<i>alpha-BHC</i>	1	10.44	10.39	10.49	0.71	
	2	10.40	10.35	10.45	0.76	6.59
<i>beta-BHC</i>	1	11.12	11.07	11.17	2.74	
	2	11.12	11.07	11.17	3.04	10.42
<i>delta-BHC</i>	1	11.40	11.35	11.45	0.60	
	2	11.56	11.51	11.61	0.69	14.59
<i>gamma-BHC (L)</i>	1	10.97	10.92	11.02	0.07	
	2	10.97	10.92	11.02	0.08	14.46

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

M-23B

Lab Name: Columbia Analytical Services *Contract:* ENSR
Lab Code: 10145 *Case.No.:* R2844650 *SAS No.:* _____ *SDG No.:* M-44B
Lab Sample ID 1112488 1.0 *Date analyzed:* 6/30/2008
Instrument ID: 6890D *Instrument ID:* 6890D
GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>alpha-BHC</i>	<i>1</i>	10.26	10.23	10.33	0.05	
	<i>2</i>	10.09	10.07	10.17	0.06	27.44

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

MC-97B

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112489 1.0 **Date analyzed:** 6/30/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>alpha-BHC</i>	<i>1</i>	10.26	10.23	10.33	1.60	
	<i>2</i>	10.09	10.07	10.17	1.41	12.64
<i>beta-BHC</i>	<i>1</i>	10.95	10.91	11.01	2.65	
	<i>2</i>	10.82	10.79	10.89	2.54	4.18
<i>delta-BHC</i>	<i>1</i>	11.23	11.19	11.29	0.24	
	<i>2</i>	11.25	11.22	11.32	0.26	6.71
<i>gamma-BHC (L)</i>	<i>1</i>	10.79	10.76	10.86	0.08	
	<i>2</i>	10.65	10.63	10.73	0.08	0.43

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

MC-97B ϕ

Lab Name: Columbia Analytical Services Contract: ENSR
Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
Lab Sample ID 1112489 20. Date analyzed: 7/11/2008
Instrument ID: 6890D Instrument ID: 6890D
GC Column(1) STx-CLP (ID) 0.32mm 30m GC Column(2) STx-CLPII (ID) 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
alpha-BHC	1	10.44	10.39	10.49	2.19	
	2	10.40	10.35	10.45	2.24	2.26
beta-BHC	1	11.12	11.07	11.17	3.89	
	2	11.12	11.07	11.17	4.13	6.03
delta-BHC	1	11.40	11.35	11.45	0.30	
	2	11.56	11.51	11.61	0.41	29.78
gamma-BHC (L)	1	10.97	10.92	11.02	0.10	
	2	10.97	10.92	11.02	0.10	3.77

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

MC-94B

Lab Name: Columbia Analytical Services Contract: ENSR
Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
Lab Sample ID 1112809 1. Date analyzed: 6/30/2008
Instrument ID: 6890D Instrument ID: 6890D
GC Column(1) STx-CLP (ID) 0.32mm 30m GC Column(2) STx-CLPII (ID) 0.32mm 30m


RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
alpha-BHC	1	10.26	10.23	10.33	2.19	
	2	10.09	10.07	10.17	1.85	16.69
beta-BHC	1	10.96	10.91	11.01	0.12	
	2	10.82	10.79	10.89	0.16	23.58
delta-BHC	1	11.23	11.19	11.29	0.36	
	2	11.25	11.22	11.32	0.35	4.96
gamma-BHC (L	1	10.79	10.76	10.86	0.15	
	2	10.65	10.63	10.73	0.13	9.59
gamma-Chlord	1	13.09	13.03	13.17	0.05	
	2	12.89	12.84	12.98	0.07	43.56

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

MC-94B 

Lab Name: Columbia Analytical Services Contract: ENSR
Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
Lab Sample ID 1112809 10. Date analyzed: 7/11/2008
Instrument ID: 6890D Instrument ID: 6890D
GC Column(1) STx-CLP (ID) 0.32mm 30m GC Column(2) STx-CLPII (ID) 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
alpha-BHC	1	10.44	10.39	10.49	2.88	
	2	10.40	10.35	10.45	2.75	4.81
beta-BHC	1	11.12	11.07	11.17	0.23	
	2	11.12	11.07	11.17	0.31	29.16
delta-BHC	1	11.40	11.35	11.45	0.46	
	2	11.56	11.51	11.61	0.45	2.23
gamma-BHC (L	1	10.97	10.92	11.02	0.17	
	2	10.97	10.92	11.02	0.15	11.69

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

MW-16B

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112810 1. **Date analyzed:** 6/30/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
delta-BHC	1	11.25	11.19	11.29	0.04	
	2	11.27	11.22	11.32	0.04	19.33
gamma-BHC (L)	1	10.79	10.76	10.86	0.03	
	2	10.65	10.63	10.73	0.04	20.83
Heptachlor E	1	12.89	12.85	12.99	1.29	
	2	12.65	12.57	12.71	1.18	9.21

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

MW-16B ✓

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112810 10. **Date analyzed:** 7/11/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>Heptachlor E</i>	<i>1</i>	13.08	13.03	13.17	1.51	
	<i>2</i>	12.99	12.89	13.03	1.63	7.90

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

M-5AB

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112811 L. **Date analyzed:** 6/30/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
<i>alpha-BHC</i>	<i>1</i>	10.26	10.23	10.33	1.28	
	<i>2</i>	10.09	10.07	10.17	1.09	15.56
<i>delta-BHC</i>	<i>1</i>	11.24	11.19	11.29	0.23	
	<i>2</i>	11.25	11.22	11.32	0.12	66.25
<i>Dieldrin</i>	<i>1</i>	13.81	13.77	13.91	0.02	
	<i>2</i>	13.53	13.50	13.64	0.03	10.34

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

M-5AB

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112811 10. **Date analyzed:** 7/11/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>alpha-BHC</i>	<i>1</i>	10.44	10.39	10.49	1.62	
	<i>2</i>	10.40	10.35	10.45	1.64	1.22
<i>delta-BHC</i>	<i>1</i>	11.40	11.35	11.45	0.28	
	<i>2</i>	11.57	11.51	11.61	0.23	20.24

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

M-61B

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112871 1. **Date analyzed:** 6/30/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
alpha-BHC	1	10.26	10.23	10.33	0.08	
	2	10.09	10.07	10.17	0.07	4.34
beta-BHC	1	10.96	10.91	11.01	0.01	
	2	10.82	10.79	10.89	0.01	51.03
delta-BHC	1	11.23	11.19	11.29	0.02	
	2	11.25	11.22	11.32	0.01	30.14
gamma-BHC (L	1	10.79	10.76	10.86	0.02	
	2	10.65	10.63	10.73	0.01	4.62

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

M-88BB

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112872 1. **Date analyzed:** 6/30/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
alpha-BHC	1	10.26	10.23	10.33	0.14	
	2	10.09	10.07	10.17	0.16	12.07
delta-BHC	1	11.23	11.19	11.29	0.02	
	2	11.25	11.22	11.32	0.02	35.10
gamma-BHC (L)	1	10.79	10.76	10.86	0.05	
	2	10.65	10.63	10.73	0.04	11.11

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

M-7BB

Lab Name: Columbia Analytical Services Contract: ENSR
Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
Lab Sample ID 1112874 1. Date analyzed: 7/1/2008
Instrument ID: 6890D Instrument ID: 6890D
GC Column(1) STx-CLP (ID) 0.32mm 30m GC Column(2) STx-CLPII (ID) 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
alpha-BHC	1	10.26	10.23	10.33	0.01	
	2	10.09	10.07	10.17	0.02	21.94
gamma-BHC (L)	1	10.79	10.76	10.86	0.12	
	2	10.65	10.63	10.73	0.11	5.60

FORM X-CLP-PEST

01592

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

M-67B

Lab Name: Columbia Analytical Services Contract: ENSR
Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
Lab Sample ID 1113426 1.0 Date analyzed: 7/16/2008
Instrument ID: 6890D Instrument ID: 6890D
GC Column(1) STx-CLP (ID) 0.32mm 30m GC Column(2) STx-CLPII (ID) 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
delta-BHC	1	11.39	11.35	11.45	0.01	
	2	11.56	11.51	11.61	0.01	5.44

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

M-6AB

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1113427 1.0 **Date analyzed:** 7/16/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
<i>gamma-BHC (L</i>	1	10.96	10.92	11.02	0.15	
	2	10.96	10.92	11.02	0.15	0.53
<i>Heptachlor E</i>	1	13.07	13.03	13.17	0.13	
	2	12.98	12.89	13.03	0.15	14.40

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

M-57AB

Lab Name: **Columbia Analytical Services** *Contract:* **ENSR**
Lab Code: **10145** *Case.No.:* **R2844650** *SAS No.:* _____ *SDG No.:* **M-44B**
Lab Sample ID **1113428 1.0** *Date analyzed:* **7/16/2008**
Instrument ID: **6890D** *Instrument ID:* **6890D**
GC Column(1) **STx-CLP** *(ID)* **0.32mm 30m** *GC Column(2)* **STx-CLPII** *(ID)* **0.32mm 30m**

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>alpha-BHC</i>	<i>1</i>	10.43	10.39	10.49	0.06	
	<i>2</i>	10.39	10.35	10.45	0.06	0.76
<i>Heptachlor E</i>	<i>1</i>	13.07	13.03	13.17	0.15	
	<i>2</i>	12.98	12.89	13.03	0.19	22.50

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

M-95B

Lab Name: Columbia Analytical Services *Contract:* ENSR
Lab Code: 10145 *Case.No.:* R2844650 *SAS No.:* _____ *SDG No.:* M-44B
Lab Sample ID 1113429 1.0 *Date analyzed:* 7/16/2008
Instrument ID: 6890D *Instrument ID:* 6890D
GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>Heptachlor E</i>	<i>1</i>	13.07	13.03	13.17	0.07	
	<i>2</i>	12.98	12.89	13.03	0.08	13.98

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

M-68B

Lab Name: Columbia Analytical Services Contract: ENSR
Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
Lab Sample ID 1113430 1.0 Date analyzed: 7/16/2008
Instrument ID: 6890D Instrument ID: 6890D
GC Column(1) STx-CLP (ID) 0.32mm 30m GC Column(2) STx-CLPII (ID) 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
alpha-BHC	1	10.43	10.39	10.49	0.20	
	2	10.39	10.35	10.45	0.21	2.28
delta-BHC	1	11.40	11.35	11.45	0.02	
	2	11.56	11.51	11.61	0.03	16.20
gamma-BHC (L)	1	10.96	10.92	11.02	0.03	
	2	10.96	10.92	11.02	0.04	17.16
Heptachlor E	1	13.07	13.03	13.17	0.05	
	2	12.98	12.89	13.03	0.06	16.35

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK1MS

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112529 1. **Date analyzed:** 6/26/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
4,4'-DDD	1	14.25	14.20	14.34	0.18	
	2	14.14	14.10	14.24	0.17	5.50
4,4'-DDE	1	13.38	13.33	13.47	0.16	
	2	13.33	13.29	13.43	0.16	0.37
4,4'-DDT	1	14.65	14.60	14.74	0.18	
	2	14.57	14.54	14.68	0.16	8.01
Aldrin	1	11.99	11.96	12.06	0.14	
	2	11.78	11.76	11.86	0.14	0.49
alpha-BHC	1	10.27	10.23	10.33	0.19	
	2	10.09	10.07	10.17	0.20	8.27
alpha-Chlord	1	13.27	13.22	13.36	0.17	
	2	13.08	13.04	13.18	0.16	6.97
alpha-Endosu	1	13.47	13.42	13.56	0.20	
	2	13.15	13.11	13.25	0.19	2.60
beta-BHC	1	10.96	10.91	11.01	0.20	
	2	10.82	10.79	10.89	0.21	3.13
beta-Endosul	1	14.49	14.45	14.59	0.18	
	2	14.27	14.23	14.37	0.19	5.63
delta-BHC	1	11.23	11.19	11.29	0.17	
	2	11.25	11.22	11.32	0.15	8.84
Dieldrin	1	13.82	13.77	13.91	0.19	
	2	13.53	13.50	13.64	0.19	2.59

FORM X-CLP-PEST

01598

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK1MS

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112529 1. **Date analyzed:** 6/26/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
Endosulfan S	1	15.76	15.72	15.86	0.18	
	2	15.15	15.12	15.26	0.17	3.33
Endrin	1	14.16	14.11	14.25	0.19	
	2	13.96	13.93	14.07	0.19	0.37
Endrin Aldehy	1	15.12	15.08	15.22	0.16	
	2	14.75	14.72	14.86	0.16	2.59
Endrin Keton	1	16.16	16.12	16.26	0.19	
	2	15.92	15.89	16.03	0.18	4.02
gamma-BHC (L	1	10.79	10.76	10.86	0.19	
	2	10.66	10.63	10.73	0.19	4.47
gamma-Chlord	1	13.08	13.03	13.17	0.18	
	2	12.87	12.84	12.98	0.17	7.31
Heptachlor	1	11.54	11.50	11.60	0.17	
	2	11.31	11.29	11.39	0.18	7.85
Heptachlor E	1	12.89	12.85	12.99	0.19	
	2	12.60	12.57	12.71	0.19	0.21
HEXACHLOROBE	1	9.97	9.91	10.05	0.41	
	2	9.85	9.80	9.94	0.39	3.80
Methoxychlor	1	15.34	15.30	15.44	1.02	
	2	15.55	15.52	15.66	1.02	0.13

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK1MSD

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112530 1. **Date analyzed:** 6/26/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
4,4'-DDD	1	14.25	14.20	14.34	0.18	
	2	14.14	14.10	14.24	0.17	4.24
4,4'-DDE	1	13.38	13.33	13.47	0.16	
	2	13.33	13.29	13.43	0.17	2.55
4,4'-DDT	1	14.65	14.60	14.74	0.16	
	2	14.57	14.54	14.68	0.16	0.56
Aldrin	1	11.99	11.96	12.06	0.15	
	2	11.78	11.76	11.86	0.15	1.23
alpha-BHC	1	10.27	10.23	10.33	0.19	
	2	10.09	10.07	10.17	0.20	8.61
alpha-Chlord	1	13.27	13.22	13.36	0.18	
	2	13.08	13.04	13.18	0.16	7.04
alpha-Endosu	1	13.47	13.42	13.56	0.20	
	2	13.15	13.11	13.25	0.19	2.93
beta-BHC	1	10.96	10.91	11.01	0.20	
	2	10.82	10.79	10.89	0.21	2.56
beta-Endosul	1	14.49	14.45	14.59	0.18	
	2	14.27	14.23	14.37	0.19	4.28
delta-BHC	1	11.23	11.19	11.29	0.17	
	2	11.25	11.22	11.32	0.15	9.94
Dieldrin	1	13.82	13.77	13.91	0.19	
	2	13.53	13.50	13.64	0.19	2.16

FORM X-CLP-PEST

01500

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK1MSD

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1112530 1. **Date analyzed:** 6/26/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>Endosulfan S</i>	1	15.76	15.72	15.86	0.18	
	2	15.15	15.12	15.26	0.17	2.39
<i>Endrin</i>	1	14.16	14.11	14.25	0.19	
	2	13.96	13.93	14.07	0.19	0.21
<i>Endrin Aldehy</i>	1	15.12	15.08	15.22	0.15	
	2	14.75	14.72	14.86	0.15	1.90
<i>Endrin Keton</i>	1	16.16	16.12	16.26	0.18	
	2	15.91	15.89	16.03	0.18	2.58
<i>gamma-BHC (L)</i>	1	10.79	10.76	10.86	0.18	
	2	10.66	10.63	10.73	0.19	4.87
<i>gamma-Chlord</i>	1	13.08	13.03	13.17	0.18	
	2	12.87	12.84	12.98	0.17	6.88
<i>Heptachlor</i>	1	11.53	11.50	11.60	0.17	
	2	11.31	11.29	11.39	0.19	8.59
<i>Heptachlor E</i>	1	12.89	12.85	12.99	0.19	
	2	12.60	12.57	12.71	0.19	0.05
<i>HEXACHLOROBE</i>	1	9.97	9.91	10.05	0.41	
	2	9.85	9.80	9.94	0.40	3.40
<i>Methoxychlor</i>	1	15.35	15.30	15.44	1.01	
	2	15.55	15.52	15.66	1.01	0.17

FORM X-CLP-PEST

01601

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK2MS

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1113456 1.0 **Date analyzed:** 6/30/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>4,4'-DDD</i>	<i>1</i>	14.25	14.20	14.34	0.08	
	<i>2</i>	14.13	14.10	14.24	0.08	2.47
<i>4,4'-DDE</i>	<i>1</i>	13.38	13.33	13.47	0.07	
	<i>2</i>	13.33	13.29	13.43	0.08	7.81
<i>4,4'-DDT</i>	<i>1</i>	14.65	14.60	14.74	0.08	
	<i>2</i>	14.57	14.54	14.68	0.08	6.15
<i>Aldrin</i>	<i>1</i>	11.99	11.96	12.06	0.06	
	<i>2</i>	11.77	11.76	11.86	0.06	2.23
<i>alpha-BHC</i>	<i>1</i>	10.26	10.23	10.33	0.07	
	<i>2</i>	10.09	10.07	10.17	0.07	3.82
<i>alpha-Chlord</i>	<i>1</i>	13.27	13.22	13.36	0.08	
	<i>2</i>	13.07	13.04	13.18	0.08	4.37
<i>alpha-Endosu</i>	<i>1</i>	13.47	13.42	13.56	0.09	
	<i>2</i>	13.15	13.11	13.25	0.09	1.08
<i>beta-BHC</i>	<i>1</i>	10.96	10.91	11.01	0.08	
	<i>2</i>	10.82	10.79	10.89	0.07	15.21
<i>beta-Endosul</i>	<i>1</i>	14.49	14.45	14.59	0.08	
	<i>2</i>	14.26	14.23	14.37	0.09	10.32
<i>delta-BHC</i>	<i>1</i>	11.23	11.19	11.29	0.07	
	<i>2</i>	11.25	11.22	11.32	0.07	8.54
<i>Dieldrin</i>	<i>1</i>	13.82	13.77	13.91	0.09	
	<i>2</i>	13.53	13.50	13.64	0.09	8.17

FORM X-CLP-PEST

01602

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK2MS

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1113456 1.0 **Date analyzed:** 6/30/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>Endosulfan S</i>	<i>1</i>	15.76	15.72	15.86	0.08	
	<i>2</i>	15.15	15.12	15.26	0.08	2.89
<i>Endrin</i>	<i>1</i>	14.16	14.11	14.25	0.09	
	<i>2</i>	13.96	13.93	14.07	0.09	2.76
<i>Endrin Aldehy</i>	<i>1</i>	15.12	15.08	15.22	0.06	
	<i>2</i>	14.74	14.72	14.86	0.07	18.07
<i>Endrin Keton</i>	<i>1</i>	16.16	16.12	16.26	0.08	
	<i>2</i>	15.91	15.89	16.03	0.08	0.43
<i>gamma-BHC (L</i>	<i>1</i>	10.79	10.76	10.86	0.08	
	<i>2</i>	10.65	10.63	10.73	0.08	2.94
<i>gamma-Chlord</i>	<i>1</i>	13.08	13.03	13.17	0.08	
	<i>2</i>	12.87	12.84	12.98	0.07	4.20
<i>Heptachlor</i>	<i>1</i>	11.53	11.50	11.60	0.07	
	<i>2</i>	11.31	11.29	11.39	0.08	9.97
<i>Heptachlor E</i>	<i>1</i>	12.89	12.85	12.99	0.08	
	<i>2</i>	12.60	12.57	12.71	0.08	3.07
<i>HEXACHLOROBE</i>	<i>1</i>	9.97	9.91	10.05	0.19	
	<i>2</i>	9.85	9.80	9.94	0.18	4.70
<i>Methoxychlor</i>	<i>1</i>	15.34	15.30	15.44	0.46	
	<i>2</i>	15.55	15.52	15.66	0.47	2.94

FORM X-CLP-PEST

01503

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK2MSD

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1113457 1.0 **Date analyzed:** 6/30/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
4,4'-DDD	1	14.24	14.20	14.34	0.10	
	2	14.13	14.10	14.24	0.10	1.42
4,4'-DDE	1	13.38	13.33	13.47	0.09	
	2	13.33	13.29	13.43	0.09	1.84
4,4'-DDT	1	14.65	14.60	14.74	0.11	
	2	14.57	14.54	14.68	0.11	2.61
Aldrin	1	11.99	11.96	12.06	0.08	
	2	11.77	11.76	11.86	0.08	1.56
alpha-BHC	1	10.26	10.23	10.33	0.10	
	2	10.09	10.07	10.17	0.09	5.24
alpha-Chlord	1	13.27	13.22	13.36	0.10	
	2	13.07	13.04	13.18	0.09	7.02
alpha-Endosu	1	13.47	13.42	13.56	0.10	
	2	13.15	13.11	13.25	0.10	4.25
beta-BHC	1	10.96	10.91	11.01	0.09	
	2	10.82	10.79	10.89	0.09	2.68
beta-Endosul	1	14.49	14.45	14.59	0.10	
	2	14.26	14.23	14.37	0.11	5.82
delta-BHC	1	11.23	11.19	11.29	0.09	
	2	11.25	11.22	11.32	0.08	10.52
Dieldrin	1	13.81	13.77	13.91	0.11	
	2	13.53	13.50	13.64	0.11	3.49

FORM X-CLP-PEST

01604

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK2MSD

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1113457 1.0 **Date analyzed:** 6/30/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>Endosulfan S</i>	<i>1</i>	15.76	15.72	15.86	0.10	
	<i>2</i>	15.15	15.12	15.26	0.10	1.49
<i>Endrin</i>	<i>1</i>	14.16	14.11	14.25	0.11	
	<i>2</i>	13.96	13.93	14.07	0.11	0.60
<i>Endrin Aldehy</i>	<i>1</i>	15.12	15.08	15.22	0.07	
	<i>2</i>	14.75	14.72	14.86	0.10	31.12
<i>Endrin Keton</i>	<i>1</i>	16.16	16.12	16.26	0.10	
	<i>2</i>	15.91	15.89	16.03	0.10	0.29
<i>gamma-BHC (L)</i>	<i>1</i>	10.79	10.76	10.86	0.10	
	<i>2</i>	10.65	10.63	10.73	0.10	1.02
<i>gamma-Chlord</i>	<i>1</i>	13.08	13.03	13.17	0.10	
	<i>2</i>	12.87	12.84	12.98	0.09	11.21
<i>Heptachlor</i>	<i>1</i>	11.53	11.50	11.60	0.09	
	<i>2</i>	11.31	11.29	11.39	0.09	5.41
<i>Heptachlor E</i>	<i>1</i>	12.89	12.85	12.99	0.10	
	<i>2</i>	12.60	12.57	12.71	0.10	2.83
<i>HEXACHLOROBE</i>	<i>1</i>	9.97	9.91	10.05	0.21	
	<i>2</i>	9.85	9.80	9.94	0.20	3.20
<i>Methoxychlor</i>	<i>1</i>	15.34	15.30	15.44	0.58	
	<i>2</i>	15.55	15.52	15.66	0.60	2.79

FORM X-CLP-PEST

01505

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

M-7BB MS

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1113458 1. **Date analyzed:** 7/1/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
4,4'-DDD	1	14.24	14.20	14.34	0.08	
	2	14.13	14.10	14.24	0.07	6.75
4,4'-DDE	1	13.38	13.33	13.47	0.07	
	2	13.32	13.29	13.43	0.07	4.39
4,4'-DDT	1	14.65	14.60	14.74	0.08	
	2	14.57	14.54	14.68	0.08	5.47
Aldrin	1	11.99	11.96	12.06	0.08	
	2	11.77	11.76	11.86	0.08	8.61
alpha-BHC	1	10.26	10.23	10.33	0.10	
	2	10.09	10.07	10.17	0.10	0.19
alpha-Chlord	1	13.27	13.22	13.36	0.07	
	2	13.07	13.04	13.18	0.07	0.57
alpha-Endosu	1	13.47	13.42	13.56	0.08	
	2	13.14	13.11	13.25	0.08	0.85
beta-BHC	1	10.96	10.91	11.01	0.08	
	2	10.82	10.79	10.89	0.08	2.80
beta-Endosul	1	14.49	14.45	14.59	0.07	
	2	14.26	14.23	14.37	0.09	17.71
delta-BHC	1	11.23	11.19	11.29	0.09	
	2	11.25	11.22	11.32	0.07	16.48
Dieldrin	1	13.81	13.77	13.91	0.09	
	2	13.53	13.50	13.64	0.09	0.91

FORM X-CLP-PEST

01506

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK3MS

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1117895 1.0 **Date analyzed:** 7/16/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
4,4'-DDD	1	14.45	14.39	14.53	0.09	
	2	14.49	14.43	14.57	0.10	3.90
4,4'-DDE	1	13.57	13.51	13.65	0.09	
	2	13.67	13.61	13.75	0.10	11.75
4,4'-DDT	1	14.86	14.80	14.94	0.09	
	2	14.95	14.89	15.03	0.10	9.76
Aldrin	1	12.17	12.13	12.23	0.07	
	2	12.11	12.07	12.17	0.07	4.84
alpha-BHC	1	10.43	10.39	10.49	0.10	
	2	10.39	10.35	10.45	0.10	1.67
alpha-Chlord	1	13.47	13.41	13.55	0.10	
	2	13.43	13.37	13.51	0.09	3.52
alpha-Endosu	1	13.67	13.61	13.75	0.10	
	2	13.51	13.45	13.59	0.10	4.18
beta-BHC	1	11.12	11.07	11.17	0.09	
	2	11.12	11.07	11.17	0.08	5.18
beta-Endosul	1	14.71	14.65	14.79	0.09	
	2	14.65	14.59	14.73	0.10	7.75
delta-BHC	1	11.39	11.35	11.45	0.09	
	2	11.56	11.51	11.61	0.09	1.50
Dieldrin	1	14.02	13.96	14.10	0.10	
	2	13.90	13.84	13.98	0.11	14.12

FORM X-CLP-PEST

01507

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

PBLK3MS

Lab Name: Columbia Analytical Services Contract: ENSR
Lab Code: 10145 Case.No.: R2844650 SAS No.: _____ SDG No.: M-44B
Lab Sample ID 1117895 1.0 Date analyzed: 7/16/2008
Instrument ID: 6890D Instrument ID: 6890D
GC Column(1) STx-CLP (ID) 0.32mm 30m GC Column(2) STx-CLPII (ID) 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
Endosulfan S	1	15.98	15.92	16.06	0.09	
	2	15.56	15.50	15.64	0.10	6.10
Endrin	1	14.37	14.31	14.45	0.10	
	2	14.34	14.29	14.43	0.10	2.56
Endrin Aldehy	1	15.34	15.28	15.42	0.08	
	2	15.15	15.09	15.23	0.08	10.03
Endrin Keton	1	16.37	16.31	16.45	0.10	
	2	16.31	16.25	16.39	0.10	4.49
gamma-BHC (L	1	10.96	10.92	11.02	0.08	
	2	10.96	10.92	11.02	0.09	4.95
gamma-Chlord	1	13.27	13.21	13.35	0.10	
	2	13.22	13.16	13.30	0.10	4.62
Heptachlor	1	11.72	11.68	11.78	0.08	
	2	11.63	11.59	11.69	0.08	6.06
Heptachlor E	1	13.09	13.03	13.17	0.09	
	2	12.95	12.89	13.03	0.10	12.65
HEXACHLOROBE	1	10.13	10.06	10.20	0.20	
	2	10.14	10.07	10.21	0.19	2.37
Methoxychlor	1	15.56	15.50	15.64	0.54	
	2	15.92	15.86	16.00	0.59	8.19

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK3MSD

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1117896 1.0 **Date analyzed:** 7/16/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
4,4'-DDD	1	14.45	14.39	14.53	0.09	
	2	14.49	14.43	14.57	0.10	8.58
4,4'-DDE	1	13.57	13.51	13.65	0.09	
	2	13.67	13.61	13.75	0.10	11.95
4,4'-DDT	1	14.86	14.80	14.94	0.09	
	2	14.95	14.89	15.03	0.10	8.03
Aldrin	1	12.18	12.13	12.23	0.08	
	2	12.11	12.07	12.17	0.08	0.06
alpha-BHC	1	10.43	10.39	10.49	0.09	
	2	10.39	10.35	10.45	0.09	0.21
alpha-Chlord	1	13.47	13.41	13.55	0.09	
	2	13.43	13.37	13.51	0.09	1.92
alpha-Endosu	1	13.67	13.61	13.75	0.09	
	2	13.51	13.45	13.59	0.10	4.35
beta-BHC	1	11.12	11.07	11.17	0.10	
	2	11.12	11.07	11.17	0.09	9.16
beta-Endosul	1	14.71	14.65	14.79	0.09	
	2	14.65	14.59	14.73	0.10	5.30
delta-BHC	1	11.39	11.35	11.45	0.09	
	2	11.56	11.51	11.61	0.09	0.99
Dieldrin	1	14.02	13.96	14.10	0.09	
	2	13.90	13.84	13.98	0.11	13.19

FORM X-CLP-PEST

01509

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK3MSD

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1117896 1.0 **Date analyzed:** 7/16/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

Analyte	Column	RT	From	To	Concentration	%RPD
Endosulfan S	1	15.98	15.92	16.06	0.09	
	2	15.56	15.50	15.64	0.10	4.87
Endrin	1	14.37	14.31	14.45	0.09	
	2	14.34	14.29	14.43	0.10	7.66
Endrin Aldehy	1	15.34	15.28	15.42	0.07	
	2	15.15	15.09	15.23	0.08	12.34
Endrin Keton	1	16.37	16.31	16.45	0.09	
	2	16.31	16.25	16.39	0.10	3.17
gamma-BHC (L)	1	10.96	10.92	11.02	0.09	
	2	10.96	10.92	11.02	0.09	3.24
gamma-Chlord	1	13.27	13.21	13.35	0.09	
	2	13.22	13.16	13.30	0.10	4.92
Heptachlor	1	11.72	11.68	11.78	0.08	
	2	11.63	11.59	11.69	0.08	5.45
Heptachlor E	1	13.09	13.03	13.17	0.09	
	2	12.95	12.89	13.03	0.10	9.84
HEXACHLOROBE	1	10.13	10.06	10.20	0.19	
	2	10.14	10.07	10.21	0.19	2.58
Methoxychlor	1	15.55	15.50	15.64	0.53	
	2	15.92	15.86	16.00	0.58	7.98

FORM X-CLP-PEST

01510

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

M-7BB MS

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1113458 1. **Date analyzed:** 7/1/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>Endosulfan S</i>	1	15.76	15.72	15.86	0.08	
	2	15.15	15.12	15.26	0.08	10.20
<i>Endrin</i>	1	14.16	14.11	14.25	0.09	
	2	13.96	13.93	14.07	0.08	11.74
<i>Endrin Aldehy</i>	1	15.12	15.08	15.22	0.02	
	2	14.75	14.72	14.86	0.03	28.39
<i>Endrin Keton</i>	1	16.16	16.12	16.26	0.08	
	2	15.91	15.89	16.03	0.08	6.77
<i>gamma-BHC (L</i>	1	10.79	10.76	10.86	0.22	
	2	10.65	10.63	10.73	0.21	4.54
<i>gamma-Chlord</i>	1	13.08	13.03	13.17	0.09	
	2	12.87	12.84	12.98	0.08	18.29
<i>Heptachlor</i>	1	11.53	11.50	11.60	0.10	
	2	11.31	11.29	11.39	0.09	6.65
<i>Heptachlor E</i>	1	12.89	12.85	12.99	0.10	
	2	12.60	12.57	12.71	0.07	27.44
<i>HEXACHLOROBE</i>	1	9.97	9.91	10.05	0.20	
	2	9.85	9.80	9.94	0.17	14.87
<i>Methoxychlor</i>	1	15.34	15.30	15.44	0.46	
	2	15.54	15.52	15.66	0.46	0.60

FORM X-CLP-PEST

01511

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

M-7BB MSD

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1113459 1. **Date analyzed:** 7/1/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
4,4'-DDD	1	14.24	14.20	14.34	0.07	
	2	14.13	14.10	14.24	0.06	9.65
4,4'-DDE	1	13.38	13.33	13.47	0.06	
	2	13.32	13.29	13.43	0.06	3.19
4,4'-DDT	1	14.65	14.60	14.74	0.07	
	2	14.57	14.54	14.68	0.07	7.20
Aldrin	1	11.98	11.96	12.06	0.07	
	2	11.77	11.76	11.86	0.08	4.46
alpha-BHC	1	10.26	10.23	10.33	0.10	
	2	10.09	10.07	10.17	0.09	4.69
alpha-Chlord	1	13.27	13.22	13.36	0.06	
	2	13.07	13.04	13.18	0.06	0.63
alpha-Endosu	1	13.47	13.42	13.56	0.08	
	2	13.14	13.11	13.25	0.07	1.61
beta-BHC	1	10.96	10.91	11.01	0.07	
	2	10.82	10.79	10.89	0.08	8.71
beta-Endosul	1	14.49	14.45	14.59	0.07	
	2	14.26	14.23	14.37	0.08	17.33
delta-BHC	1	11.23	11.19	11.29	0.09	
	2	11.25	11.22	11.32	0.07	26.94
Dieldrin	1	13.81	13.77	13.91	0.08	
	2	13.53	13.50	13.64	0.08	2.28

FORM X-CLP-PEST

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

M-7BB MSD

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844650 **SAS No.:** _____ **SDG No.:** M-44B
Lab Sample ID 1113459 1. **Date analyzed:** 7/1/2008
Instrument ID: 6890D **Instrument ID:** 6890D
GC Column(1) STx-CLP **(ID)** 0.32mm 30m **GC Column(2)** STx-CLPII **(ID)** 0.32mm 30m

RT Window

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>Endosulfan S</i>	<i>1</i>	15.76	15.72	15.86	0.08	
	<i>2</i>	15.15	15.12	15.26	0.07	7.12
<i>Endrin</i>	<i>1</i>	14.16	14.11	14.25	0.08	
	<i>2</i>	13.96	13.93	14.07	0.07	16.59
<i>Endrin Aldehy</i>	<i>1</i>	15.11	15.08	15.22	0.02	
	<i>2</i>	14.75	14.72	14.86	0.03	30.60
<i>Endrin Keton</i>	<i>1</i>	16.16	16.12	16.26	0.08	
	<i>2</i>	15.91	15.89	16.03	0.07	9.32
<i>FAMPHUR</i>	<i>1</i>	0.00	16.01	16.15	0.00	
	<i>2</i>	15.32	15.24	15.38	0.00	200.00
<i>gamma-BHC (L</i>	<i>1</i>	10.79	10.76	10.86	0.21	
	<i>2</i>	10.65	10.63	10.73	0.20	6.27
<i>gamma-Chlord</i>	<i>1</i>	13.07	13.03	13.17	0.09	
	<i>2</i>	12.87	12.84	12.98	0.07	27.24
<i>Heptachlor</i>	<i>1</i>	11.53	11.50	11.60	0.10	
	<i>2</i>	11.31	11.29	11.39	0.08	18.75
<i>Heptachlor E</i>	<i>1</i>	12.89	12.85	12.99	0.10	
	<i>2</i>	12.59	12.57	12.71	0.06	49.58
<i>HEXACHLOROBE</i>	<i>1</i>	9.97	9.91	10.05	0.19	
	<i>2</i>	9.85	9.80	9.94	0.15	25.28
<i>Methoxychlor</i>	<i>1</i>	15.34	15.30	15.44	0.42	
	<i>2</i>	15.54	15.52	15.66	0.42	0.43

FORM X-CLP-PEST

01619

PESTICIDES
RAW QC DATA

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 07/25/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1112528 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/25/08			
DATE ANALYZED : 06/26/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.050 U	UG/L
ALPHA-BHC	0.050	0.050 U	UG/L
BETA-BHC	0.050	0.050 U	UG/L
GAMMA-BHC	0.050	0.050 U	UG/L
DELTA-BHC	0.050	0.050 U	UG/L
ALPHA-CHLORDANE	0.050	0.050 U	UG/L
GAMMA-CHLORDANE	0.050	0.050 U	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.050 U	UG/L
4,4'-DDT	0.050	0.050 U	UG/L
DIELDRIN	0.10	0.10 U	UG/L
ALPHA-ENDOSULFAN	0.050	0.050 U	UG/L
BETA-ENDOSULFAN	0.10	0.10 U	UG/L
ENDOSULFAN SULFATE	0.10	0.10 U	UG/L
ENDRIN	0.050	0.050 U	UG/L
ENDRIN ALDEHYDE	0.10	0.10 U	UG/L
ENDRIN KETONE	0.10	0.10 U	UG/L
HEPTACHLOR	0.050	0.050 U	UG/L
HEPTACHLOR EPOXIDE	0.050	0.050 U	UG/L
HEXACHLOROBENZENE	0.050	0.050 U	UG/L
METHOXYCHLOR	0.50	0.50 U	UG/L
4,4'-TDE (DDD)	0.050	0.050 U	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	36 *	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	65	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX884.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 6:40 pm
 Operator : M.PEDRO
 Sample : 1112528 1.
 Misc : 06/25/08 200 ensr 8081 blk
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:40 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1232.0E6	3745.2E6	65.414	61.380
Spiked Amount	100.000	Range 30 -	150	Recovery =	65.41%	61.38%
25) S SURR2,Decachloro	17.39	17.46	617.4E6	1470.8E6	36.145	33.695
Spiked Amount	100.000	Range 30 -	150	Recovery =	36.15%	33.70%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	6281967	25665646	0.231	0.292 #
3) tc alpha-BHC	0.00	10.11	0	28539898	N.D.	0.309 #
4) tcm gamma-BHC (L	0.00	10.65	0	13195612	N.D.	0.161 #
5) tcm Heptachlor	11.54	11.31	52116559	127.3E6	1.937	1.594
6) tcm Aldrin	0.00	11.78	0	15633234	N.D.	0.209 #
7) tc beta-BHC	0.00	10.82	0	19078475	N.D.	0.535 #
8) tc delta-BHC	11.23	0.00	3657279	0	0.132	N.D. #
9) tc Heptachlor E	12.90	12.62	6073076	85596623	0.264	1.274 #
11) tc gamma-Chlord	0.00	12.88	0	73979517	N.D.	1.061 #
12) tc alpha-Chlord	0.00	13.08	0	6771645	N.D.	0.102 #
13) tc 4,4'-DDE	13.37	13.35	22432459	58910247	0.998	0.904
14) tcm Dieldrin	13.80	13.56	27380435	26513959	1.176	0.406 #
15) tcm Endrin	0.00	13.98	0	14275459	N.D.	0.252 #
16) tc KEPONE	14.26	0.00	4705188	0	0.752	N.D. #
17) tc beta-Endosul	0.00	14.28	0	29890043	N.D.	0.545 #
18) tc 4,4'-DDD	14.26	0.00	4705188	0	0.250	N.D. #
19) tcm 4,4'-DDT	0.00	14.58	0	66861619	N.D.	1.220 #
20) tc Endrin Aldeh	15.14	14.77	7435687	84229603	0.503	2.094 #
26) L8C Toxaphene	14.61	14.43	30014936	10604370	71.874	6.472 #
27) L8C Toxaphene{2}	0.00	14.70	0	12447784	N.D.	16.181 #
29) L8C Toxaphene{4}	0.00	16.08	0	9824638	N.D.	6.040 #
30) L8C Toxaphene{5}	16.34	16.31	10711626	1144122	15.865	0.657 #
Sum Toxaphene			40726562	34020914	87.739	29.350
Average Toxaphene					43.869	7.337
31) L9C Chlordane	11.45	11.10	3516440	31733990	4.595	12.600 #

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX884.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 6:40 pm
 Operator : M.PEDRO
 Sample : 1112528 1.
 Misc : 06/25/08 200 ensr 8081 blk
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:40 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) L9C Chlordane{2}	11.54	0.00	52116559	0	47.918	N.D. #
33) L9C Chlordane{3}	0.00	12.04	0	26915038	N.D.	9.695 #
Sum Chlordane			55633000	58649027	52.514	22.295
Average Chlordane					26.257	11.147

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1113455 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.050 U	UG/L
ALPHA-BHC	0.050	0.050 U	UG/L
BETA-BHC	0.050	0.050 U	UG/L
GAMMA-BHC	0.050	0.050 U	UG/L
DELTA-BHC	0.050	0.050 U	UG/L
ALPHA-CHLORDANE	0.050	0.050 U	UG/L
GAMMA-CHLORDANE	0.050	0.050 U	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.050 U	UG/L
4,4'-DDT	0.050	0.050 U	UG/L
DIELDRIN	0.10	0.10 U	UG/L
ALPHA-ENDOSULFAN	0.050	0.050 U	UG/L
BETA-ENDOSULFAN	0.10	0.10 U	UG/L
ENDOSULFAN SULFATE	0.10	0.10 U	UG/L
ENDRIN	0.050	0.050 U	UG/L
ENDRIN ALDEHYDE	0.10	0.10 U	UG/L
ENDRIN KETONE	0.10	0.10 U	UG/L
HEPTACHLOR	0.050	0.050 U	UG/L
HEPTACHLOR EPOXIDE	0.050	0.050 U	UG/L
HEXACHLOROBENZENE	0.050	0.050 U	UG/L
METHOXYCHLOR	0.50	0.50 U	UG/L
4,4'-TDE (DDD)	0.050	0.050 U	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	71	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	78	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX912.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 12:29 pm
 Operator : M.PEDRO
 Sample : 1113455 1.0
 Misc : 06/27/08 200 ensr 8081 blk
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:23 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	1464.8E6	4361.1E6	77.777	71.475
Spiked Amount	100.000	Range 30 - 150	Recovery =		77.78%	71.47%
25) S SURR2,Decachloro	17.40	17.46	1217.9E6	2993.7E6	71.303	68.584
Spiked Amount	100.000	Range 30 - 150	Recovery =		71.30%	68.58%
Target Compounds						
2) TC HEXACHLORO BENZEN	9.97	9.85	40750307	117.7E6	1.500	1.338
3) tc alpha-BHC	10.28	10.10	50791278	110.5E6	1.691	1.195 #
5) tcm Heptachlor	11.54	11.33	33650971	64237512	1.251	0.804 #
7) tc beta-BHC	0.00	10.80	0	140.7E6	N.D.	3.944 #
8) tc delta-BHC	0.00	11.25	0	166.7E6	N.D.	2.006 #
9) tc Heptachlor E	0.00	12.61	0	108.9E6	N.D.	1.620 #
10) tc alpha-Endosu	0.00	13.17	0	51698452	N.D.	0.868 #
11) tc gamma-Chlord	13.06	12.88	32984994	105.6E6	1.447	1.515
12) tc alpha-Chlord	0.00	13.09	0	107.0E6	N.D.	1.611 #
13) tc 4,4'-DDE	13.38	13.36	24477101	121.9E6	1.089	1.870 #
14) tcm Dieldrin	13.81	13.56	35705356	65196060	1.534	0.999 #
15) tcm Endrin	0.00	13.98	0	58154018	N.D.	1.025 #
16) tc KEPONE	0.00	14.17	0	45172852	N.D.	2.641 #
17) tc beta-Endosul	0.00	14.28	0	64382427	N.D.	1.174 #
19) tcm 4,4'-DDT	0.00	14.58	0	130.8E6	N.D.	2.386 #
20) tc Endrin Aldehy	15.14	14.77	6093541	158.0E6	0.412	3.928 #
21) tc Endosulfan S	0.00	15.13	0	29896995	N.D.	0.602 #
23) tc FAMPHUR	0.00	15.32	0	16141027	N.D.	0.508 #
24) tc Endrin Keton	0.00	15.92	0	1912596	N.D.	0.035 #
26) L8C Toxaphene	14.62	14.43	35921596	51162430	86.018	31.226 #
27) L8C Toxaphene {2}	0.00	14.71	0	31777019	N.D.	41.307 #
29) L8C Toxaphene {4}	0.00	16.08	0	5785831	N.D.	3.557 #
30) L8C Toxaphene {5}	16.35	0.00	14287575	0	21.162	N.D. #
Sum Toxaphene			50209171	88725281	107.179	76.090
Average Toxaphene					53.590	25.363

Handwritten mark

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : EX912.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 12:29 pm
 Operator : M.PEDRO
 Sample : 1113455 1.0
 Misc : 06/27/08 200 ensr 8081 blk
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:23 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

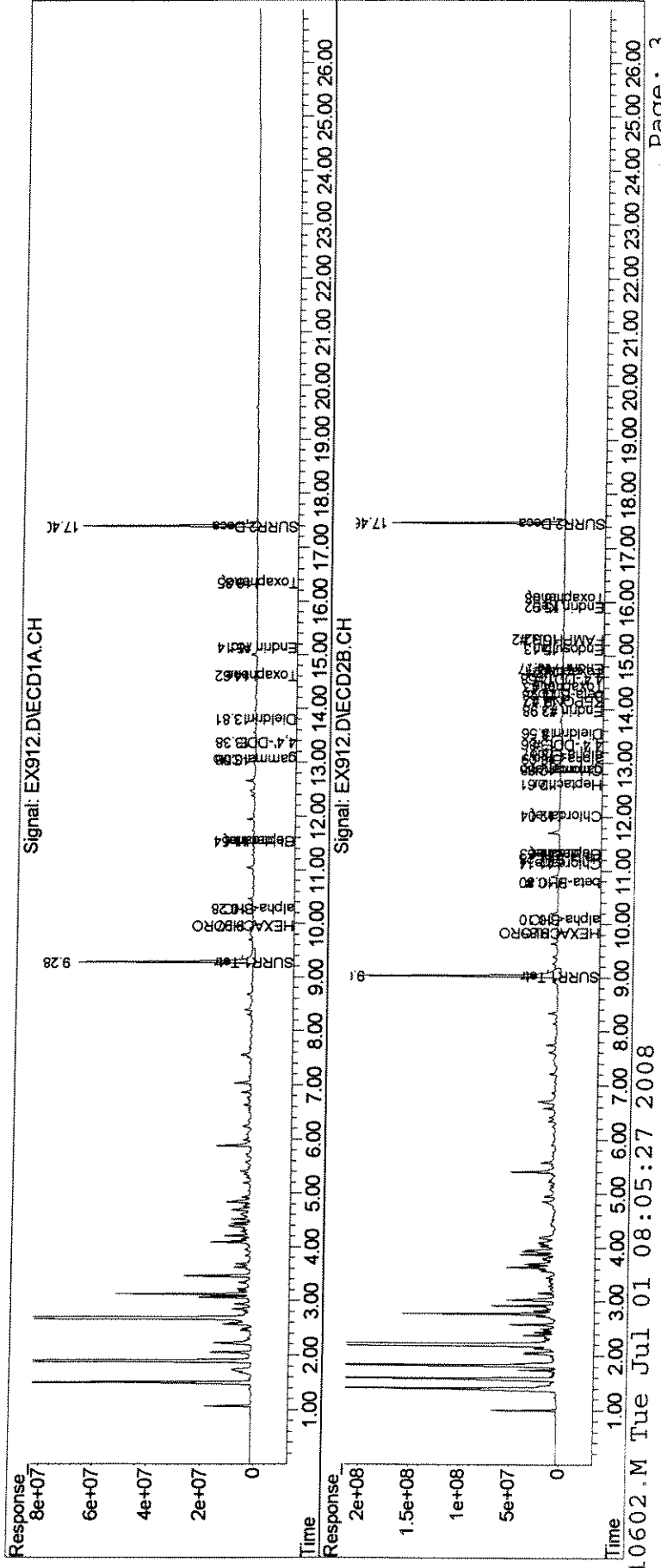
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) L9C Chlordane	0.00	11.14	0	183.9E6	N.D.	73.011 #
32) L9C Chlordane{2}	11.54	11.33	33650971	64237512	30.940	18.781 #
33) L9C Chlordane{3}	0.00	12.04	0	104.5E6	N.D.	37.648 #
34) L9C Chlordane{4}	0.00	12.88	0	105.6E6	N.D.	13.348 #
Sum Chlordane			33650971	458.3E6	30.940	142.787
Average Chlordane					30.940	35.697

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 12:29 pm
Operator : M.PEDRO
Sample : 1113455 1.0
Misc : 06/27/08 200 ensr 8081 blk
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:23 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1117894 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 164027

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/01/08			
DATE ANALYZED : 07/16/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.050 U	UG/L
ALPHA-BHC	0.050	0.050 U	UG/L
BETA-BHC	0.050	0.050 U	UG/L
GAMMA-BHC	0.050	0.050 U	UG/L
DELTA-BHC	0.050	0.050 U	UG/L
ALPHA-CHLORDANE	0.050	0.050 U	UG/L
GAMMA-CHLORDANE	0.050	0.050 U	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.050 U	UG/L
4,4'-DDT	0.050	0.050 U	UG/L
DIELDRIN	0.10	0.10 U	UG/L
ALPHA-ENDOSULFAN	0.050	0.050 U	UG/L
BETA-ENDOSULFAN	0.10	0.10 U	UG/L
ENDOSULFAN SULFATE	0.10	0.10 U	UG/L
ENDRIN	0.050	0.050 U	UG/L
ENDRIN ALDEHYDE	0.10	0.10 U	UG/L
ENDRIN KETONE	0.10	0.10 U	UG/L
HEPTACHLOR	0.050	0.050 U	UG/L
HEPTACHLOR EPOXIDE	0.050	0.050 U	UG/L
HEXACHLOROBENZENE	0.050	0.050 U	UG/L
METHOXYCHLOR	0.50	0.50 U	UG/L
4,4'-TDE (DDD)	0.050	0.050 U	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	84	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	85	%

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY134.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 4:26 pm
 Operator : M.PEDRO
 Sample : 1117894 1.0
 Misc : 07/01/08 200 ensr 8081 blk
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:26 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	1705.3E6	6286.1E6	84.502	77.683
Spiked Amount	100.000	Range	30 - 150	Recovery =	84.50%	77.68%
25) S SURR2,Decachloro	17.61	17.85	1380.6E6	4653.0E6	79.046	84.484
Spiked Amount	100.000	Range	30 - 150	Recovery =	79.05%	84.48%

Target Compounds	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	#
2) TC HEXACHLOROBENZEN	10.13	0.00	30008225	0	1.021	N.D.	#
3) tc alpha-BHC	10.44	10.40	51805780	137.5E6	1.676	1.159	#
5) tcm Heptachlor	11.71	0.00	50113817	0	1.793	N.D.	#
6) tcm Aldrin	12.17	0.00	16472178	0	0.665	N.D.	#
7) tc beta-BHC	11.10	0.00	91645080	0	7.981	N.D.	#
8) tc delta-BHC	11.40	11.57	45788436	165.6E6	1.684	1.604	#
9) tc Heptachlor E	13.08	12.95	26952633	202.9E6	1.184	2.524	#
11) tc gamma-Chlord	0.00	13.21	0	188.2E6	N.D.	2.294	#
12) tc alpha-Chlord	13.50	13.42	53589215	100.8E6	2.506	1.297	#
13) tc 4,4'-DDE	13.56	13.70	43031956	177.1E6	1.976	2.311	#
14) tcm Dieldrin	0.00	13.91	0	97880377	N.D.	1.251	#
15) tcm Endrin	14.40	14.34	43348740	47304697	2.092	0.702	#
17) tc beta-Endosul	14.73	14.66	4919956	83290023	0.265	1.297	#
19) tcm 4,4'-DDT	14.85	14.96	14288618	160.2E6	0.747	2.445	#
20) tc Endrin Aldehy	15.36	15.14	14784058	127.6E6	1.007	2.601	#
21) tc Endosulfan S	15.98	0.00	6262094	0	0.372	N.D.	#
22) tc Methoxychlor	15.56	0.00	2911311	0	0.313	N.D.	#
23) tc FAMPHUR	16.26	15.67	3083504	2010643	0.227	0.048	#
24) tc Endrin Keton	16.37	16.30	2844018	13687047	0.147	0.218	#
26) L8C Toxaphene	14.82	14.79	24864306	59341497	62.338	30.670	#
27) L8C Toxaphene {2}	0.00	15.09	0	23014875	N.D.	25.511	#
28) L8C Toxaphene {3}	15.48	0.00	4949303	0	7.354	N.D.	#
29) L8C Toxaphene {4}	16.37	0.00	2844018	0	3.475	N.D.	#
30) L8C Toxaphene {5}	16.55	16.68	10953852	16112426	16.457	7.141	#
Sum Toxaphene			43611479	98468798	89.623	63.321	
Average Toxaphene					22.406	21.107	

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY134.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 4:26 pm
 Operator : M.PEDRO
 Sample : 1117894 1.0
 Misc : 07/01/08 200 ensr 8081 blk
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:26 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

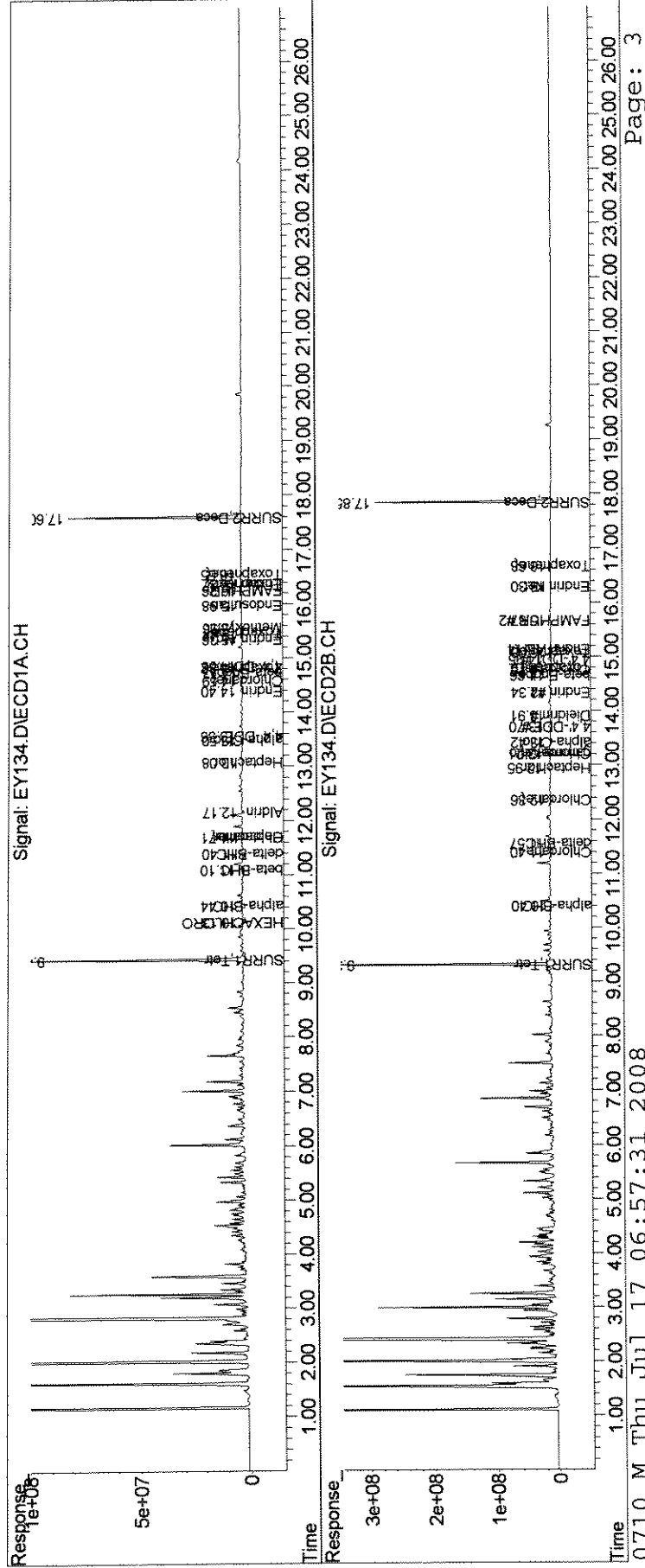
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) L9C Chlordane	0.00	11.40	0	192.0E6	N.D.	59.372 #
32) L9C Chlordane {2}	11.71	0.00	50113817	0	44.485	N.D. #
33) L9C Chlordane {3}	0.00	12.36	0	193.2E6	N.D.	53.975 #
34) L9C Chlordane {4}	0.00	13.21	0	188.2E6	N.D.	18.778 #
35) L9C Chlordane {5}	14.59	14.76	15080330	16358956	16.139	4.638 #
Sum Chlordane			65194148	589.7E6	60.624	136.763
Average Chlordane					30.312	34.191

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : EY134.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 4:26 pm
Operator : M.PEDRO
Sample : 1117894 1.0
Misc : 07/01/08 200 ensr 8081 blk
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:26 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01626

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex888.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:02 pm
 Operator : M.PEDRO
 Sample : 1112524 1.
 Misc : 06/25/08 100 8081/608 lcs
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:47:53 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1428.3E6	4494.7E6	75.836	73.665
Spiked Amount	100.000	Range 30 - 150	Recovery =		75.84%	73.67%
25) S SURR2,Decachloro	17.40	17.46	560.1E6	1388.8E6	32.793	31.817
Spiked Amount	100.000	Range 30 - 150	Recovery =		32.79%	31.82%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1113.1E6	3471.1E6	40.977	39.447
3) tc alpha-BHC	10.27	10.09	564.4E6	1886.9E6	18.793	20.406
4) tcm gamma-BHC (L	10.79	10.66	510.8E6	1596.5E6	18.581	19.433
5) tcm Heptachlor	11.54	11.31	457.8E6	1469.8E6	17.012	18.404
6) tcm Aldrin	11.99	11.78	352.3E6	1078.1E6	14.314	14.385
7) tc beta-BHC	10.96	10.82	232.1E6	739.9E6	20.100	20.742
8) tc delta-BHC	11.23	11.25	467.3E6	1285.2E6	16.895	15.467
9) tc Heptachlor E	12.89	12.60	428.6E6	1252.2E6	18.602	18.636
10) tc alpha-Endosu	13.47	13.15	402.0E6	1132.7E6	19.510	19.010
11) tc gamma-Chlord	13.08	12.87	407.2E6	1157.9E6	17.865	16.607
12) tc alpha-Chlord	13.27	13.08	388.1E6	1076.1E6	17.367	16.203
13) tc 4,4'-DDE	13.38	13.33	365.0E6	1053.7E6	16.235	16.167
14) tcm Dieldrin	13.82	13.53	433.9E6	1248.4E6	18.638	19.131
15) tcm Endrin	14.16	13.96	393.6E6	1066.5E6	18.867	18.802
17) tc beta-Endosul	14.49	14.27	346.3E6	1022.3E6	17.618	18.639
18) tc 4,4'-DDD	14.25	14.14	337.5E6	876.9E6	17.943	16.985
19) tcm 4,4'-DDT	14.65	14.57	350.9E6	886.2E6	17.519	16.171
20) tc Endrin Aldeh	15.12	14.75	231.1E6	645.7E6	15.638	16.050
21) tc Endosulfan S	15.76	15.15	321.4E6	850.7E6	17.720	17.139
22) tc Methoxychlor	15.34	15.55	1005.4E6	2459.5E6	101.864	101.988
24) tc Endrin Keton	16.16	15.92	386.8E6	963.2E6	18.522	17.792
29) L8C Toxaphene {4}	16.16	16.08	386.8E6	2530597	435.130	1.556 #
30) L8C Toxaphene {5}	16.34	0.00	10630350	0	15.745	N.D. #
Sum Toxaphene			397.4E6	2530597	450.875	1.556
Average Toxaphene					225.437	1.556

Myp 6/27

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex888.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:02 pm
 Operator : M.PEDRO
 Sample : 1112524 1.
 Misc : 06/25/08 100 8081/608 lcs
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:47:53 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

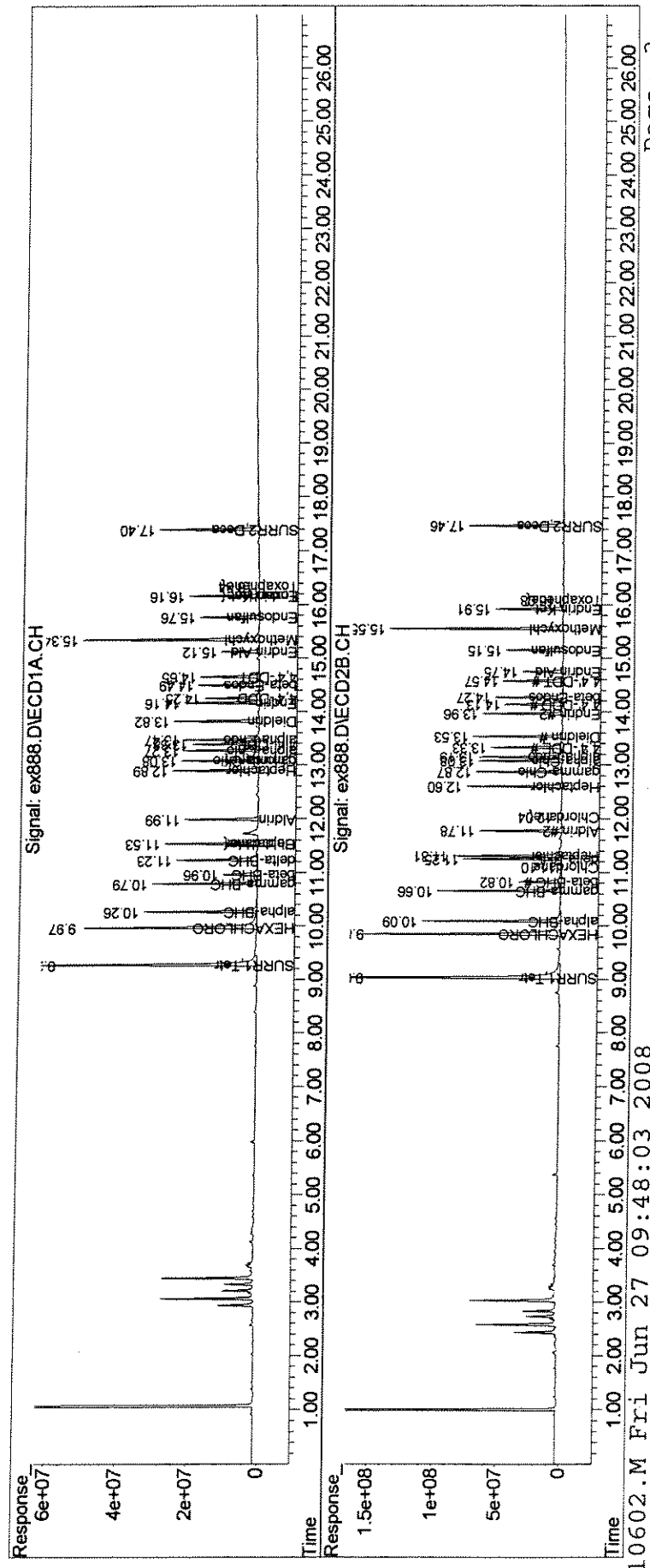
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) L9C Chlordane	0.00	11.10	0	25096392	N.D.	9.964 #
32) L9C Chlordane {2}	11.54	0.00	457.8E6	0	420.887	N.D. #
33) L9C Chlordane {3}	0.00	12.04	0	12487142	N.D.	4.498 #
34) L9C Chlordane {4}	13.08	0.00	407.2E6	0	148.773	N.D. #
Sum Chlordane			864.9E6	37583534	569.659	14.462
Average Chlordane					284.830	7.231

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex888.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 9:02 pm
Operator : M.PEDRO
Sample : 1112524 1.
Misc : 06/25/08 100 8081/608 lcs
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 09:47:53 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01630

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX888.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:02 pm
 Operator : M.PEDRO
 Sample : 1112524 1.
 Misc : 06/25/08 100 8081/608 lcs
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:00 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1428.3E6	4494.7E6	75.836	73.665
Spiked Amount	100.000	Range 30 - 150	Recovery =		75.84%	73.67%
25) S SURR2,Decachloro	17.40	17.46	560.1E6	1388.8E6	32.793	31.817
Spiked Amount	100.000	Range 30 - 150	Recovery =		32.79%	31.82%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1113.1E6	3471.1E6	40.977	39.447
3) tc alpha-BHC	10.27	10.09	564.4E6	1886.9E6	18.793	20.406
4) tcm gamma-BHC (L	10.79	10.66	510.8E6	1596.5E6	18.581	19.433
5) tcm Heptachlor	11.54	11.31	457.8E6	1469.8E6	17.012	18.404
6) tcm Aldrin	11.99	11.78	352.3E6	1078.1E6	14.314	14.385
7) tc beta-BHC	10.96	10.82	232.1E6	739.9E6	20.100	20.742
8) tc delta-BHC	11.23	11.25	467.3E6	1285.2E6	16.895	15.467
9) tc Heptachlor E	12.89	12.60	428.6E6	1252.2E6	18.602	18.636
10) tc alpha-Endosu	13.47	13.15	402.0E6	1132.7E6	19.510	19.010
11) tc gamma-Chlord	13.08	12.87	407.2E6	1157.9E6	17.865	16.607
12) tc alpha-Chlord	13.27	13.08	388.1E6	1076.1E6	17.367	16.203
13) tc 4,4'-DDE	13.38	13.33	365.0E6	1053.7E6	16.235	16.167
14) tcm Dieldrin	13.82	13.53	433.9E6	1248.4E6	18.638	19.131
15) tcm Endrin	14.16	13.96	393.6E6	1066.5E6	18.867	18.802
16) tc KEPONE	14.25	0.00	337.5E6	0	53.928	N.D. #
17) tc beta-Endosul	14.49	14.27	346.3E6	1022.3E6	17.618	18.639
18) tc 4,4'-DDD	14.25	14.14	337.5E6	876.9E6	17.943	16.985
19) tcm 4,4'-DDT	14.65	14.57	350.9E6	886.2E6	17.519	16.171
20) tc Endrin Aldeh	15.12	14.75	231.1E6	645.7E6	15.638	16.050
21) tc Endosulfan S	15.76	15.15	321.4E6	850.7E6	17.720	17.139
22) tc Methoxychlor	15.34	15.55	1005.4E6	2459.5E6	101.864	101.988
23) tc FAMPHUR	0.00	15.32	0	1268781	N.D.	0.040 #
24) tc Endrin Keton	16.16	15.92	386.8E6	963.2E6	18.522	17.792
29) L8C Toxaphene{4}	16.16	16.08	386.8E6	2530597	435.130	1.556 #
30) L8C Toxaphene{5}	16.34	0.00	10630350	0	15.745	N.D. #
Sum Toxaphene			397.4E6	2530597	450.875	1.556

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX888.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:02 pm
 Operator : M.PEDRO
 Sample : 1112524 1.
 Misc : 06/25/08 100 8081/608 lcs
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:00 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average Toxaphene					225.437	1.556
31) L9C Chlordane	0.00	11.10	0	25096392	N.D.	9.964 #
32) L9C Chlordane {2}	11.54	0.00	457.8E6	0	420.887	N.D. #
33) L9C Chlordane {3}	0.00	12.04	0	12487142	N.D.	4.498 #
34) L9C Chlordane {4}	13.08	0.00	407.2E6	0	148.773	N.D. #
Sum Chlordane			864.9E6	37583534	569.659	14.462
Average Chlordane					284.830	7.231

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A

Reported: 07/25/08

Project Reference:

Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : Order #: 1112525 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163011

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/25/08			
DATE ANALYZED : 06/26/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.15	UG/L
ALPHA-BHC	0.050	0.20	UG/L
BETA-BHC	0.050	0.20	UG/L
DELTA-BHC	0.050	0.17	UG/L
GAMMA-BHC (LINDANE)	0.050	0.19	UG/L
ALPHA-CHLORDANE	0.050	0.18	UG/L
GAMMA-CHLORDANE	0.050	0.18	UG/L
4,4'-DDD	0.10	0.18	UG/L
4,4'-DDE	0.10	0.17	UG/L
4,4'-DDT	0.10	0.16	UG/L
DIELDRIN	0.10	0.19	UG/L
ALPHA-ENDOSULFAN	0.050	0.20	UG/L
BETA-ENDOSULFAN	0.10	0.19	UG/L
ENDOSULFAN SULFATE	0.10	0.18	UG/L
ENDRIN	0.10	0.19	UG/L
ENDRIN ALDEHYDE	0.10	0.15	UG/L
ENDRIN KETONE	0.10	0.18	UG/L
HEPTACHLOR	0.050	0.19	UG/L
HEPTACHLOR EPOXIDE	0.050	0.19	UG/L
METHOXYCHLOR	0.50	1.0	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(11 - 131 %)	33	%
TETRACHLORO-META-XYLENE (TCMX)	(13 - 125 %)	77	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex889.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:38 pm
 Operator : M.PEDRO
 Sample : 1112525 1.
 Misc : 06/25/08 100 8081/608 lcsd
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:49:27 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1446.8E6	4548.1E6	76.822	74.540
Spiked Amount	100.000	Range 30 - 150	Recovery =		76.82%	74.54%
25) S SURR2,Decachloro	17.40	17.46	557.0E6	1351.3E6	32.613	30.956
Spiked Amount	100.000	Range 30 - 150	Recovery =		32.61%	30.96%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1112.5E6	3484.2E6	40.955	39.595
3) tc alpha-BHC	10.27	10.09	557.5E6	1870.5E6	18.563	20.228
4) tcm gamma-BHC (L)	10.79	10.66	506.5E6	1589.3E6	18.425	19.345
5) tcm Heptachlor	11.53	11.31	461.5E6	1492.7E6	17.150	18.691
6) tcm Aldrin	11.99	11.78	362.5E6	1090.2E6	14.728	14.546
7) tc beta-BHC	10.96	10.82	231.4E6	733.6E6	20.041	20.564
8) tc delta-BHC	11.23	11.25	467.5E6	1271.3E6	16.904	15.300
9) tc Heptachlor E	12.89	12.60	430.7E6	1255.3E6	18.691	18.682
10) tc alpha-Endosu	13.47	13.15	406.9E6	1142.7E6	19.747	19.177
11) tc gamma-Chlord	13.08	12.87	414.2E6	1182.9E6	18.175	16.965
12) tc alpha-Chlord	13.27	13.08	394.4E6	1092.2E6	17.647	16.446
13) tc 4,4'-DDE	13.38	13.33	366.2E6	1089.0E6	16.290	16.709
14) tcm Dieldrin	13.82	13.53	437.3E6	1252.5E6	18.782	19.194
15) tcm Endrin	14.16	13.96	393.9E6	1068.9E6	18.883	18.844
17) tc beta-Endosul	14.49	14.27	355.3E6	1034.7E6	18.075	18.866
18) tc 4,4'-DDD	14.25	14.14	335.6E6	883.0E6	17.844	17.103
19) tcm 4,4'-DDT	14.65	14.57	323.7E6	890.6E6	16.160	16.252
20) tc Endrin Aldeh	15.12	14.75	223.8E6	620.8E6	15.144	15.431
21) tc Endosulfan S	15.76	15.15	322.1E6	860.5E6	17.758	17.337
22) tc Methoxychlor	15.35	15.55	999.4E6	2437.9E6	101.257	101.091
24) tc Endrin Keton	16.16	15.91	385.8E6	974.9E6	18.477	18.008
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

*40
407*

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex889.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:38 pm
 Operator : M.PEDRO
 Sample : 1112525 1.
 Misc : 06/25/08 100 8081/608 lcsd
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:49:27 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX889.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:38 pm
 Operator : M.PEDRO
 Sample : 1112525 1.
 Misc : 06/25/08 100 8081/608 lcsd
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:06 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1446.8E6	4548.1E6	76.822	74.540
Spiked Amount	100.000	Range 30 - 150	Recovery =		76.82%	74.54%
25) S SURR2,Decachloro	17.40	17.46	557.0E6	1351.3E6	32.613	30.956
Spiked Amount	100.000	Range 30 - 150	Recovery =		32.61%	30.96%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1112.5E6	3484.2E6	40.955	39.595
3) tc alpha-BHC	10.27	10.09	557.5E6	1870.5E6	18.563	20.228
4) tcm gamma-BHC (L)	10.79	10.66	506.5E6	1589.3E6	18.425	19.345
5) tcm Heptachlor	11.53	11.31	461.5E6	1492.7E6	17.150	18.691
6) tcm Aldrin	11.99	11.78	362.5E6	1090.2E6	14.728	14.546
7) tc beta-BHC	10.96	10.82	231.4E6	733.6E6	20.041	20.564
8) tc delta-BHC	11.23	11.25	467.5E6	1271.3E6	16.904	15.300
9) tc Heptachlor E	12.89	12.60	430.7E6	1255.3E6	18.691	18.682
10) tc alpha-Endosu	13.47	13.15	406.9E6	1142.7E6	19.747	19.177
11) tc gamma-Chlord	13.08	12.87	414.2E6	1182.9E6	18.175	16.965
12) tc alpha-Chlord	13.27	13.08	394.4E6	1092.2E6	17.647	16.446
13) tc 4,4'-DDE	13.38	13.33	366.2E6	1089.0E6	16.290	16.709
14) tcm Dieldrin	13.82	13.53	437.3E6	1252.5E6	18.782	19.194
15) tcm Endrin	14.16	13.96	393.9E6	1068.9E6	18.883	18.844
16) tc KEPONE	14.25	0.00	335.6E6	0	53.630	N.D. #
17) tc beta-Endosul	14.49	14.27	355.3E6	1034.7E6	18.075	18.866
18) tc 4,4'-DDD	14.25	14.14	335.6E6	883.0E6	17.844	17.103
19) tcm 4,4'-DDT	14.65	14.57	323.7E6	890.6E6	16.160	16.252
20) tc Endrin Aldeh	15.12	14.75	223.8E6	620.8E6	15.144	15.431
21) tc Endosulfan S	15.76	15.15	322.1E6	860.5E6	17.758	17.337
22) tc Methoxychlor	15.35	15.55	999.4E6	2437.9E6	101.257	101.091
24) tc Endrin Keton	16.16	15.91	385.8E6	974.9E6	18.477	18.008
29) L8C Toxaphene{4}	16.16	0.00	385.8E6	0	434.082	N.D. #
30) L8C Toxaphene{5}	16.34	0.00	8551622	0	12.666	N.D. #
Sum Toxaphene			394.4E6	0	446.748	N.D.
Average Toxaphene					223.374	0.000

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX889.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:38 pm
 Operator : M.PEDRO
 Sample : 1112525 1.
 Misc : 06/25/08 100 8081/608 lcsd
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:06 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

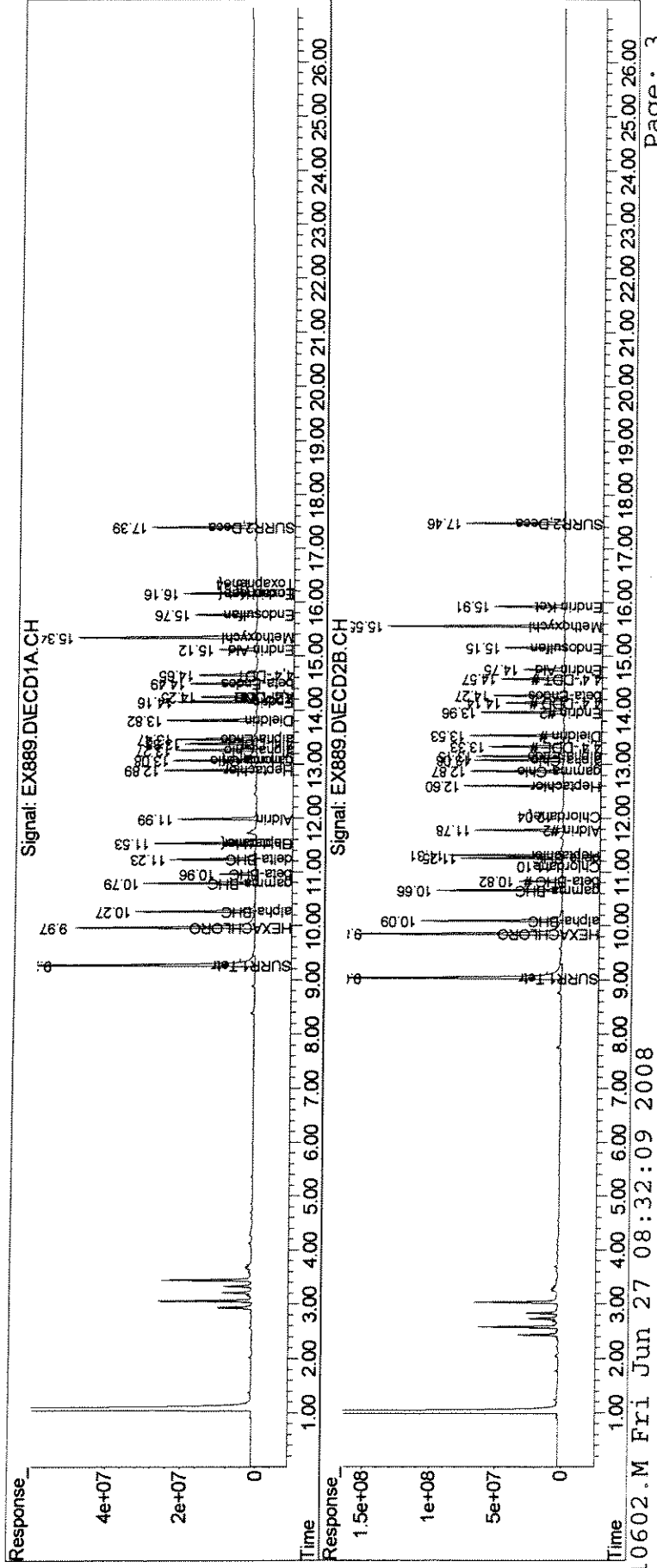
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) L9C Chlordane	0.00	11.10	0	23491089	N.D.	9.327 #
32) L9C Chlordane {2}	11.53	0.00	461.5E6	0	424.303	N.D. #
33) L9C Chlordane {3}	0.00	12.04	0	10442570	N.D.	3.761 #
34) L9C Chlordane {4}	13.08	0.00	414.2E6	0	151.353	N.D. #
Sum Chlordane			875.7E6	33933658	575.656	13.088
Average Chlordane					287.828	6.544

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\062608\
 Data File : EX889.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:38 pm
 Operator : M.PEDRO
 Sample : 1112525 1.
 Misc : 06/25/08 100 8081/608 lcsd
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:06 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP
 Signal #1 Info : 0.32mm 30m
 Signal #2 Phase : STx-CLPII
 Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 09/02/08

Project Reference:

Client Sample ID : BLANK SPIKE

Date Sampled : Order #: 1113456 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.063	UG/L
ALPHA-BHC	0.050	0.075	UG/L
BETA-BHC	0.050	0.081	UG/L
GAMMA-BHC	0.050	0.079	UG/L
DELTA-BHC	0.050	0.073	UG/L
ALPHA-CHLORDANE	0.050	0.079	UG/L
GAMMA-CHLORDANE	0.050	0.077	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.080	UG/L
4,4'-DDT	0.050	0.085	UG/L
DIELDRIN	0.10	0.094 J	UG/L
ALPHA-ENDOSULFAN	0.050	0.088	UG/L
BETA-ENDOSULFAN	0.10	0.086 J	UG/L
ENDOSULFAN SULFATE	0.10	0.081 J	UG/L
ENDRIN	0.050	0.090	UG/L
ENDRIN ALDEHYDE	0.10	0.074 J	UG/L
ENDRIN KETONE	0.10	0.081 J	UG/L
HEPTACHLOR	0.050	0.078	UG/L
HEPTACHLOR EPOXIDE	0.050	0.081	UG/L
HEXACHLOROBENZENE	0.050	0.18	UG/L
METHOXYCHLOR	0.50	0.47 J	UG/L
4,4'-TDE (DDD)	0.050	0.082	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	80	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	80	%

01641

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:05 pm
 Operator : M.PEDRO
 Sample : 1113456 1.0
 Misc : 06/27/08 200 ensr 8081 lcs
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:37:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1515.2E6	4576.4E6	80.454	75.004
Spiked Amount	100.000	Range	30 - 150	Recovery =	80.45%	75.00%
25) S SURR2,Decachloro	17.39	17.46	1361.1E6	3310.3E6	79.688	75.835
Spiked Amount	100.000	Range	30 - 150	Recovery =	79.69%	75.83%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1005.4E6	3107.2E6	37.009	35.311
3) tc alpha-BHC	10.26	10.09	448.4E6	1329.2E6	14.930m	14.375m
4) tcm gamma-BHC (L	10.79	10.65	423.3E6	1303.3E6	15.399m	15.863m
5) tcm Heptachlor	11.53	11.31	379.5E6	1244.5E6	14.102m	15.583m
6) tcm Aldrin	11.99	11.77	312.1E6	929.4E6	12.681m	12.401m
7) tc beta-BHC	10.96	10.82	187.9E6	498.5E6	16.271m	13.975m
8) tc delta-BHC	11.23	11.25	401.9E6	1108.6E6	14.530m	13.342m
9) tc Heptachlor E	12.89	12.60	362.7E6	1090.4E6	15.743m	16.228m
10) tc alpha-Endosu	13.47	13.15	358.9E6	1049.6E6	17.420	17.615
11) tc gamma-Chlord	13.08	12.87	349.5E6	1025.0E6	15.333m	14.701m
12) tc alpha-Chlord	13.27	13.07	355.1E6	1010.3E6	15.889	15.213
13) tc 4,4'-DDE	13.38	13.33	332.1E6	1040.6E6	14.772	15.965
14) tcm Dieldrin	13.82	13.53	401.9E6	1222.2E6	17.259	18.730
15) tcm Endrin	14.16	13.96	365.5E6	1021.7E6	17.521	18.013
17) tc beta-Endosul	14.49	14.26	303.4E6	939.0E6	15.436	17.121m
18) tc 4,4'-DDD	14.25	14.13	300.8E6	846.4E6	15.993	16.395
19) tcm 4,4'-DDT	14.65	14.57	318.8E6	927.2E6	15.915	16.920
20) tc Endrin Aldeh	15.12	14.74	182.9E6	597.2E6	12.378	14.844
21) tc Endosulfan S	15.76	15.15	284.4E6	800.9E6	15.678	16.136
22) tc Methoxychlor	15.34	15.55	908.8E6	2286.8E6	92.082	94.828
24) tc Endrin Keton	16.16	15.91	340.1E6	878.3E6	16.287	16.223
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

Handwritten: 7/1

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:05 pm
 Operator : M.PEDRO
 Sample : 1113456 1.0
 Misc : 06/27/08 200 ensr 8081 lcs
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:37:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

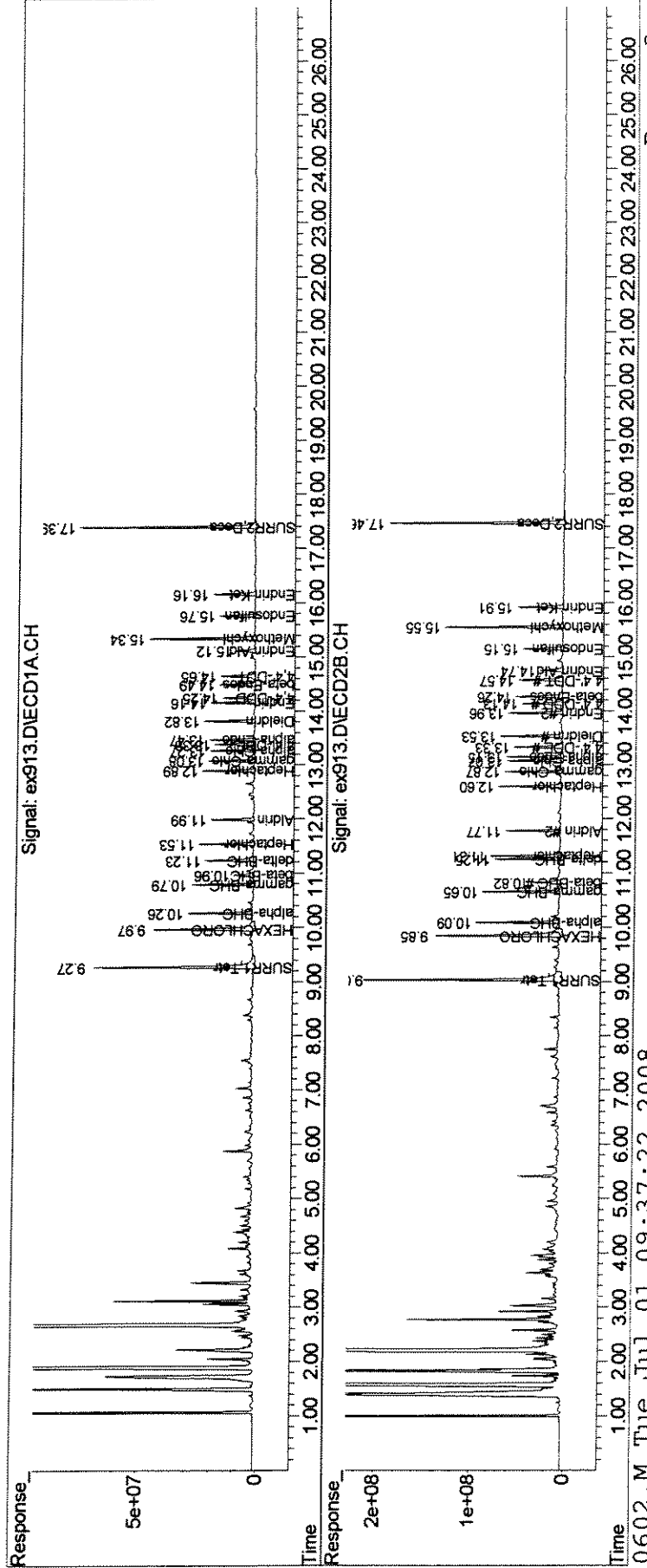
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 09:37:11 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase : STX-CLPII
Signal #2 Info : 0.32mm 30m

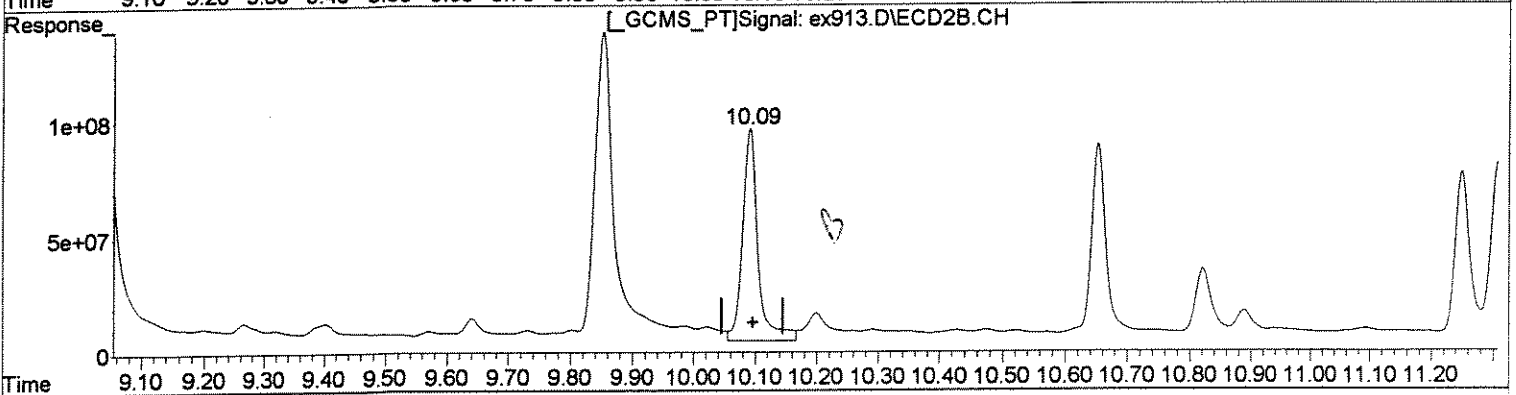
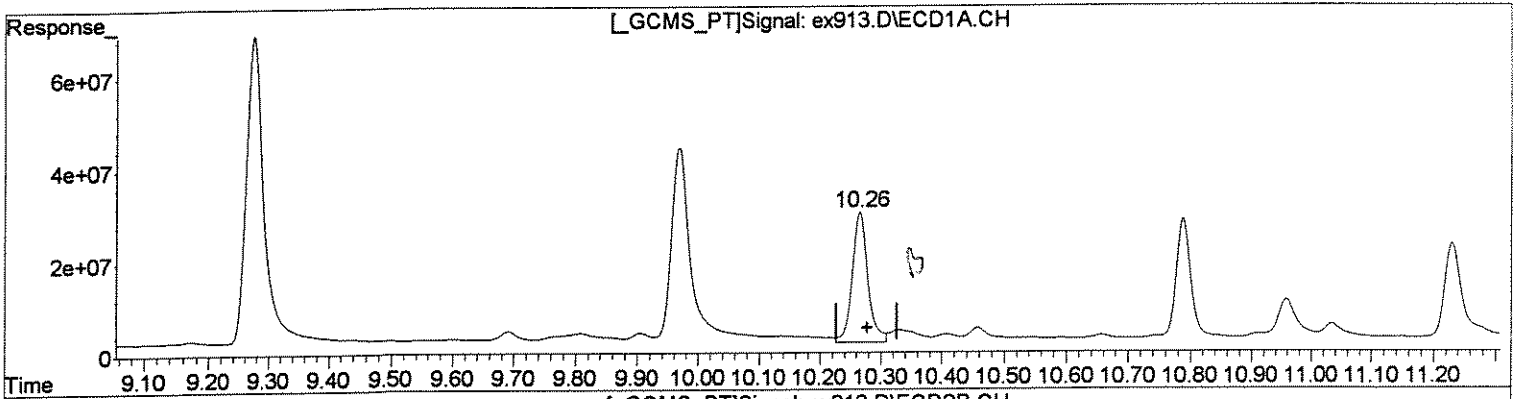


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(3) alpha-BHC (tc)
10.26min 16.800ug/l
response 504531905

Back

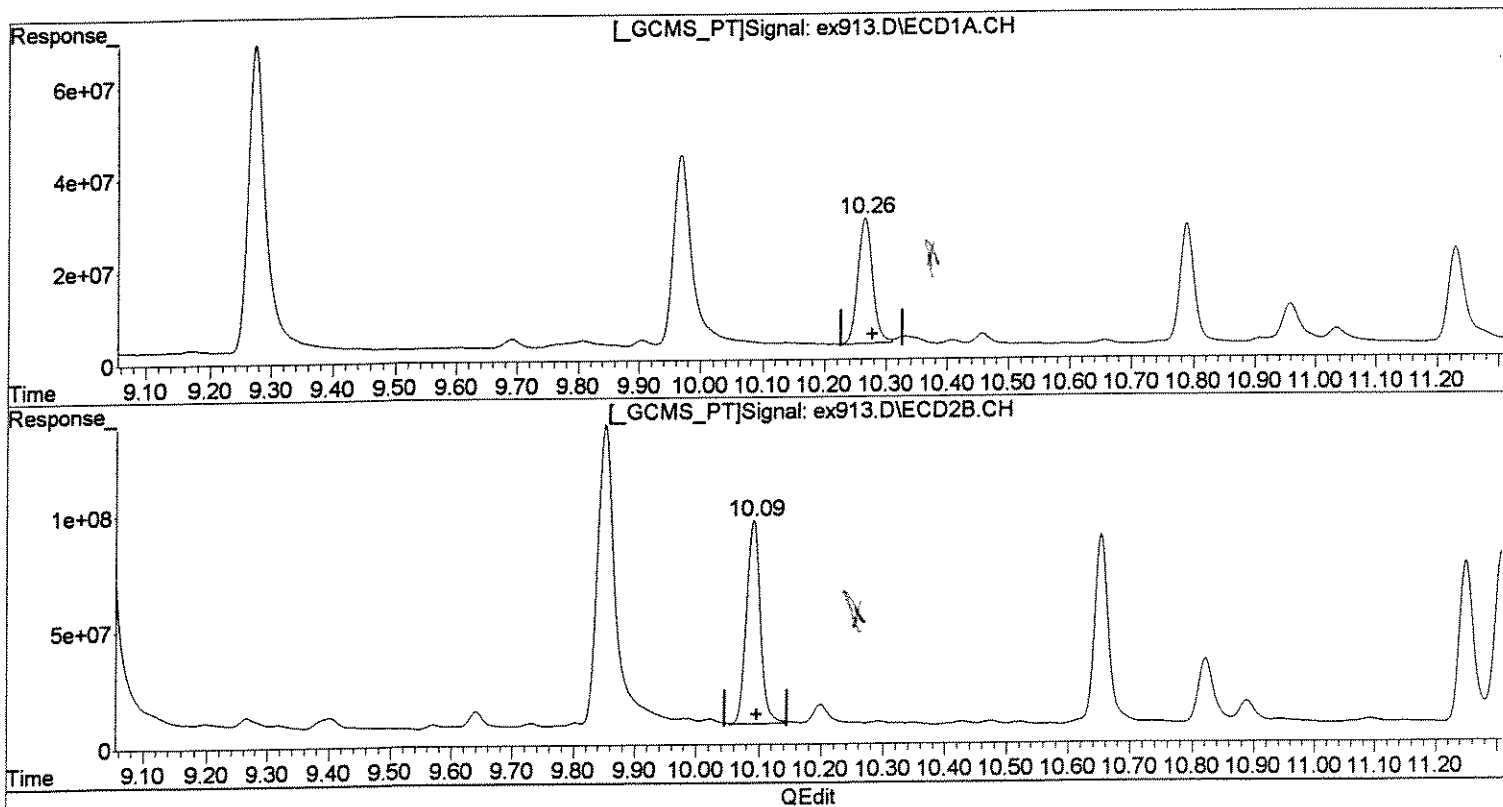
(3) alpha-BHC #2 (tc)
10.09min 17.351ug/l
response 1604365426

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 14.930ug/l m
response 448363828

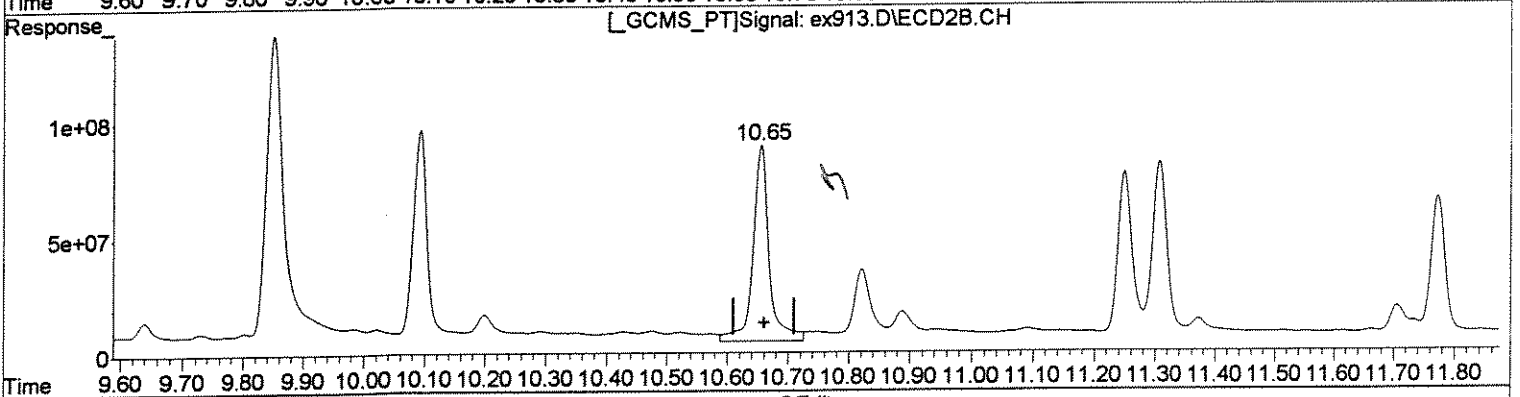
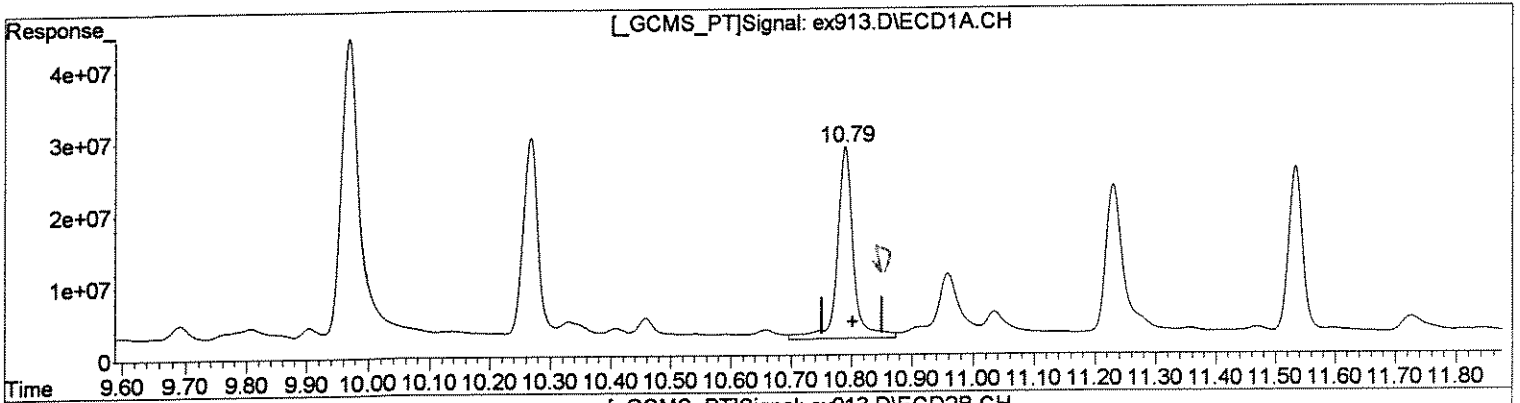
(3) alpha-BHC #2 (tc)
10.09min 14.375ug/l m
response 1329167261

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(4) gamma-BHC (L (tcm))
10.79min 17.972ug/l
response 494027982

(4) gamma-BHC (L #2 (tcm))
10.65min 18.866ug/l
response 1549954147

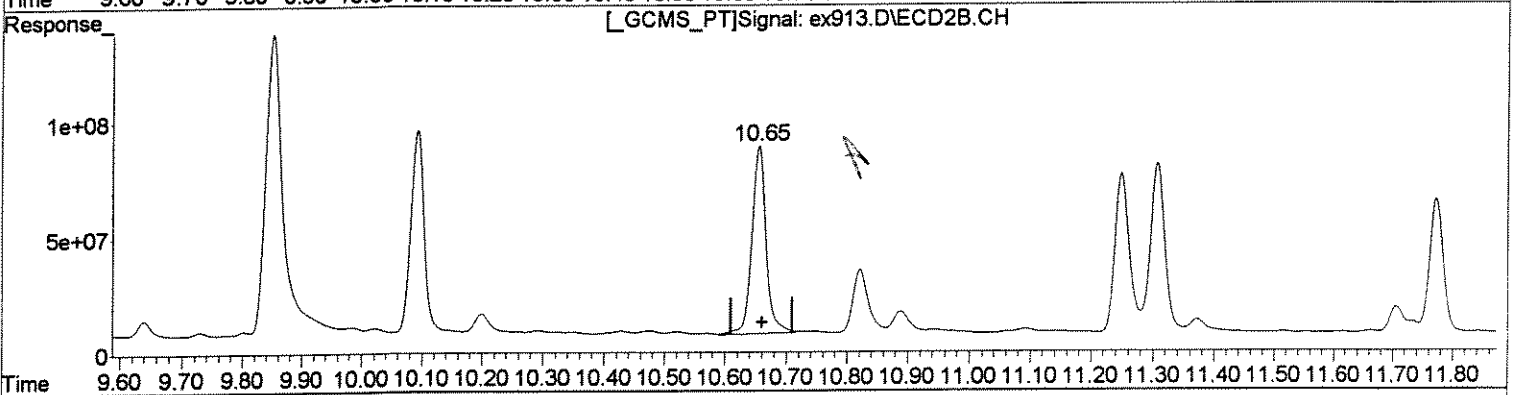
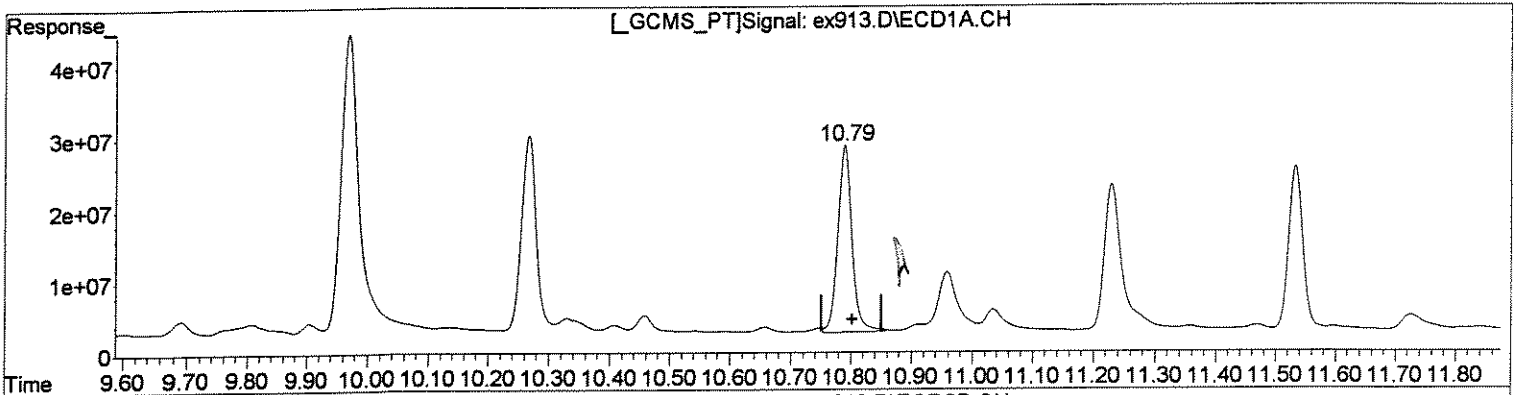
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:05 pm
 Operator : M.PEDRO
 Sample : 1113456 1.0
 Misc : 06/27/08 200 ensr 8081 lcs
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:30 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(4) gamma-BHC (L (tcm))
 10.79min 15.399ug/l m
 response 423291098

(4) gamma-BHC (L #2 (tcm))
 10.65min 15.863ug/l m
 response 1303295388

ms

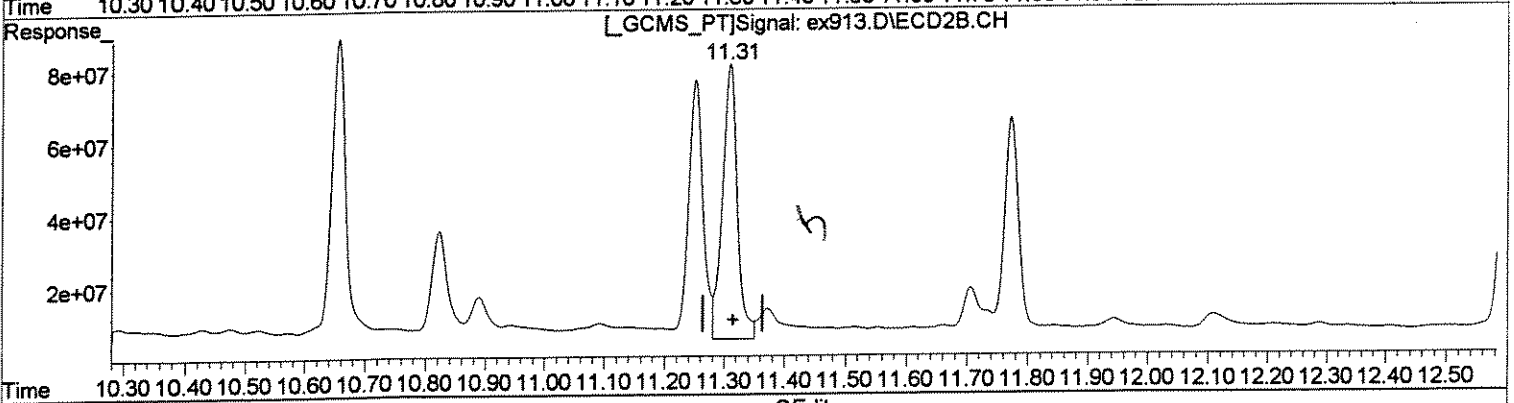
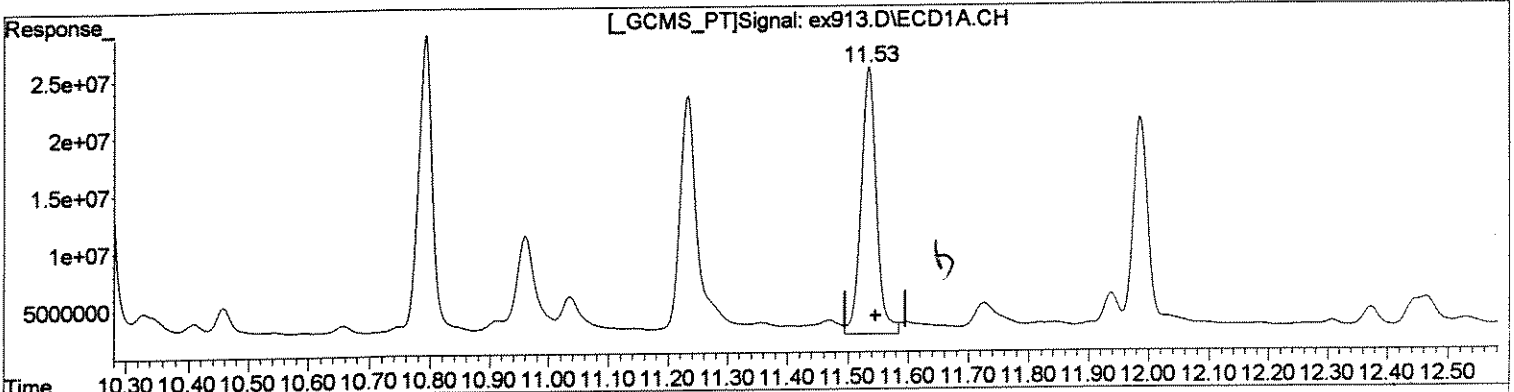
ms

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(5) Heptachlor (tcm)
11.53min 15.140ug/l
response 407402033

(5) Heptachlor #2 (tcm)
11.31min 16.553ug/l
response 1321992783

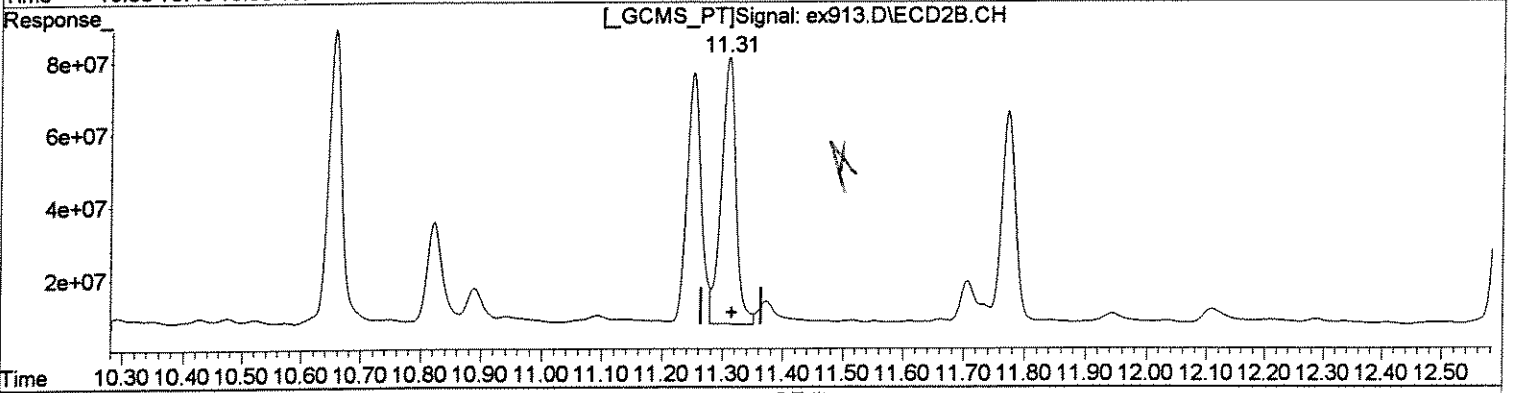
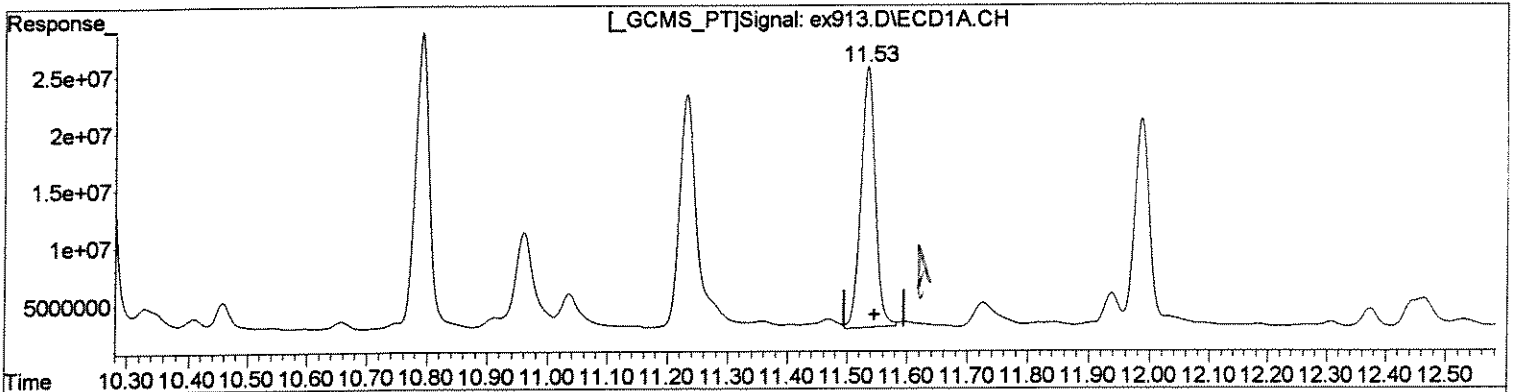
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(5) Heptachlor (tcm)
11.53min 14.102ug/l m
response 379472897

(5) Heptachlor #2 (tcm)
11.31min 15.583ug/l m
response 1244499552

MW 7/1

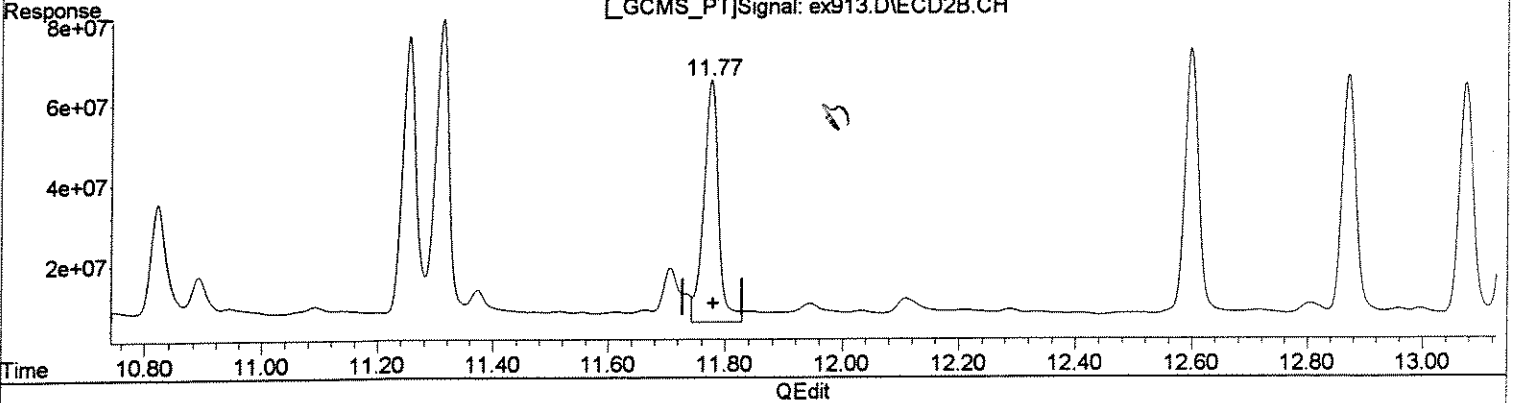
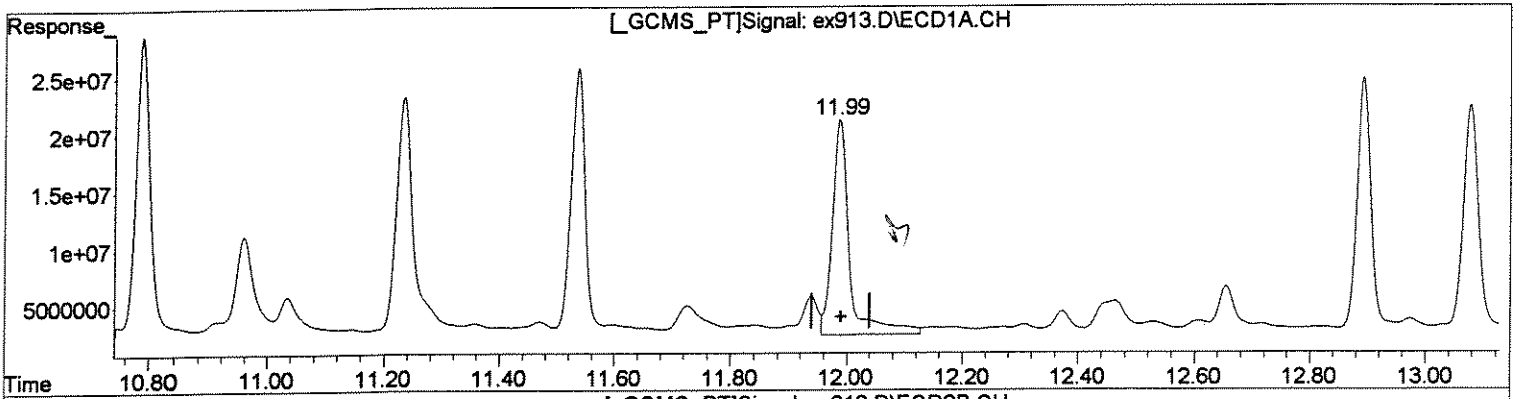
MW 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(6) Aldrin (tcm)
11.99min 15.657ug/l
response 385371585

(6) Aldrin #2 (tcm)
11.77min 13.997ug/l
response 1049012443

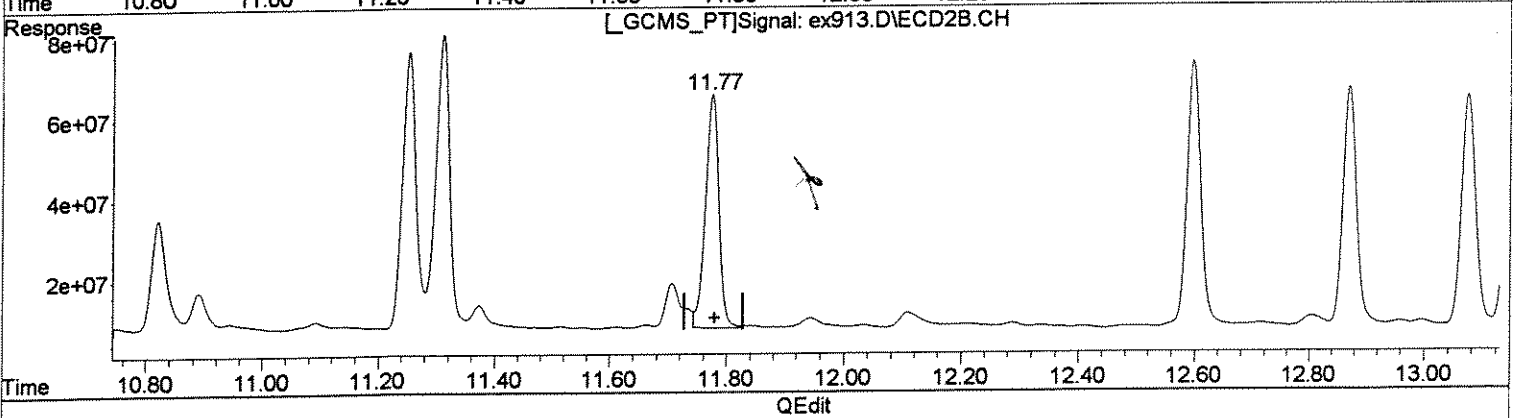
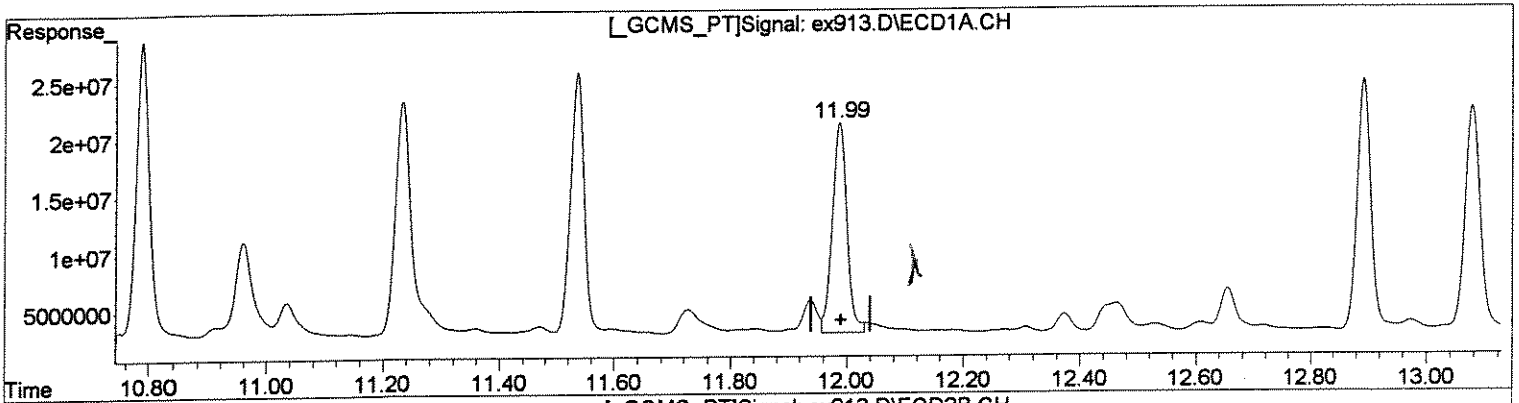
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(6) Aldrin (tcm)
11.99min 12.681ug/l m
response 312115779

(6) Aldrin #2 (tcm)
11.77min 12.401ug/l m
response 929406859

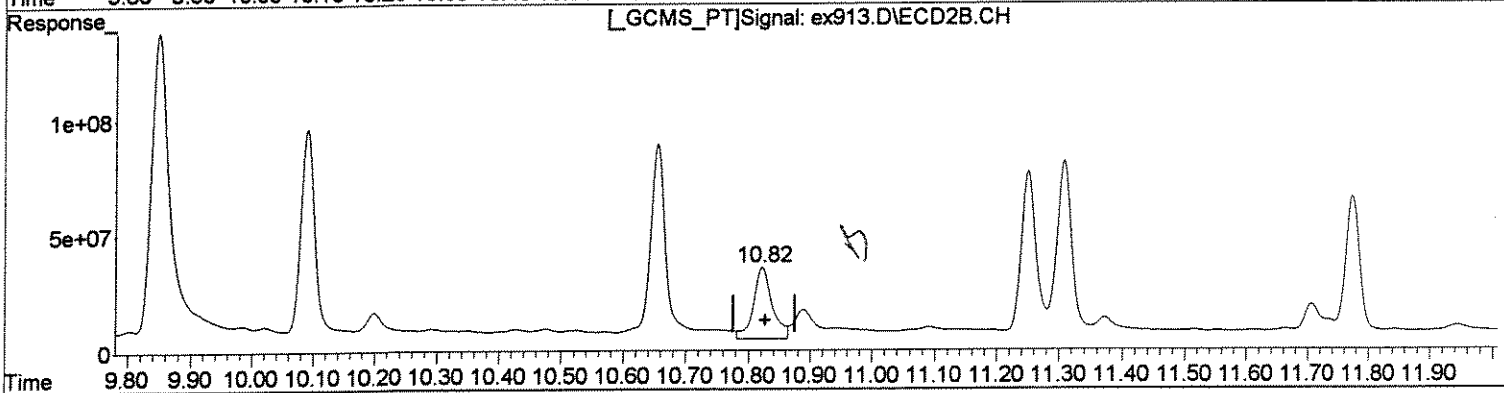
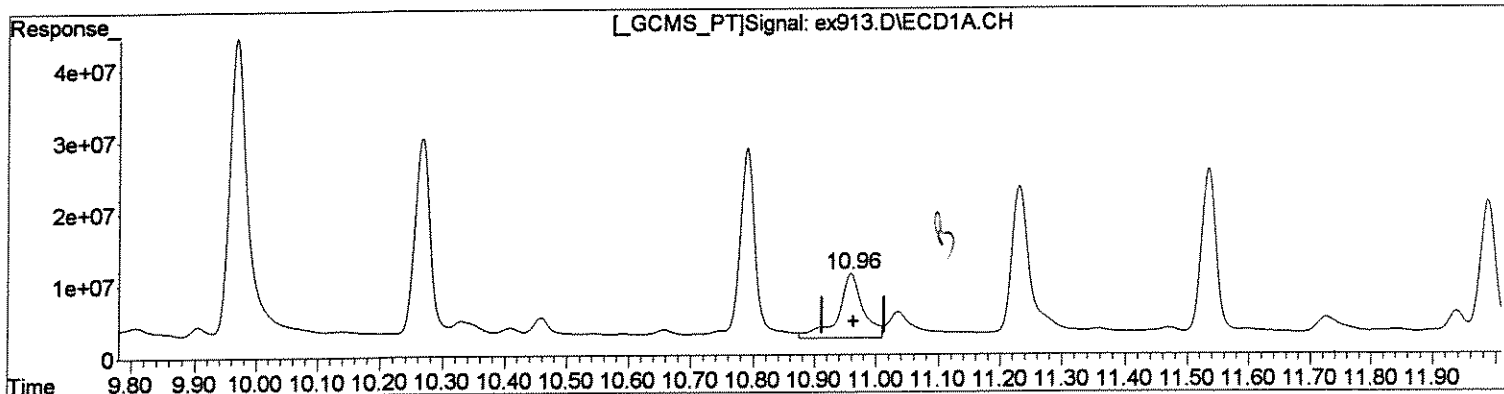
Handwritten notes: 7/1 and 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
10.96min 21.682ug/l
response 250330909

(7) beta-BHC #2 (tc)
10.82min 17.770ug/l
response 633919409

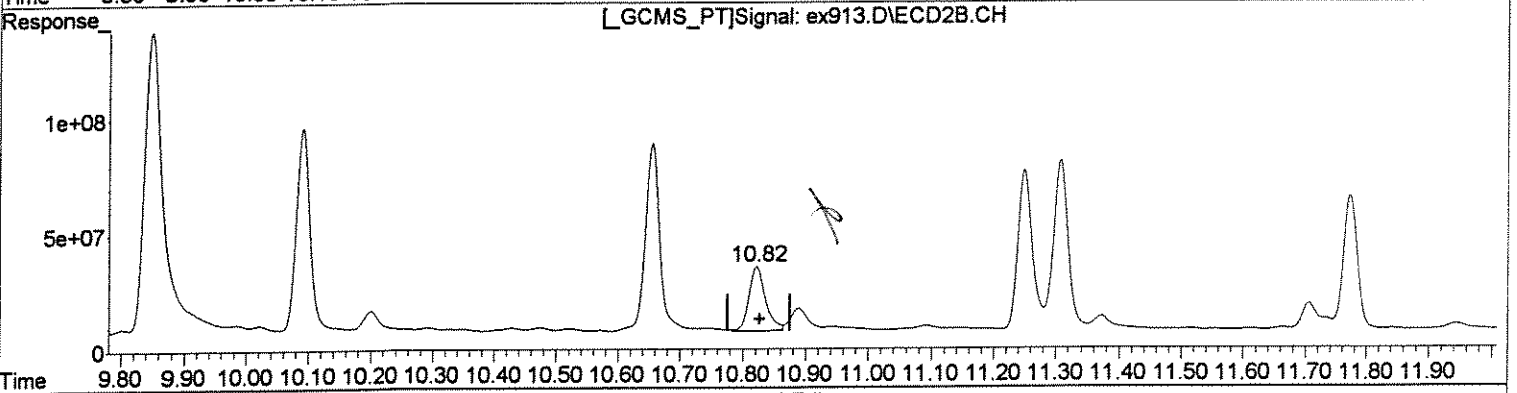
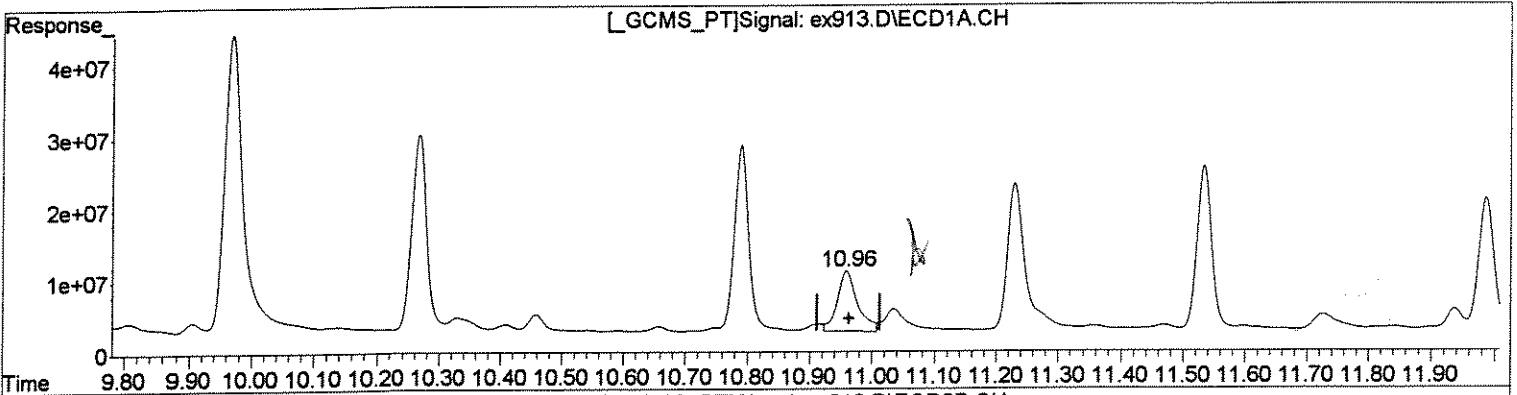
BHL

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
10.96min 16.271ug/l m
response 187858770

(7) beta-BHC #2 (tc)
10.82min 13.975ug/l m
response 498528677

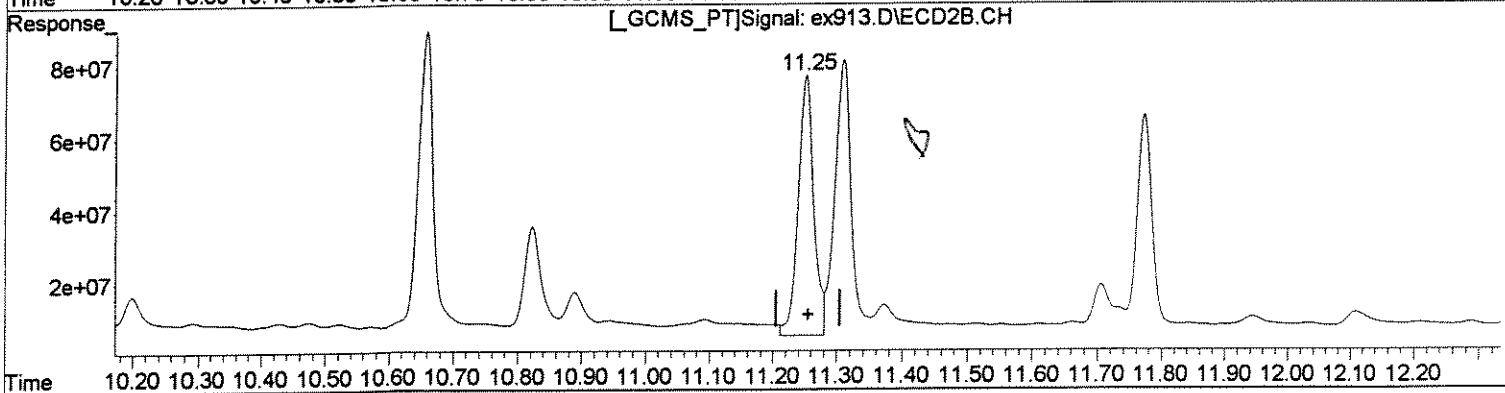
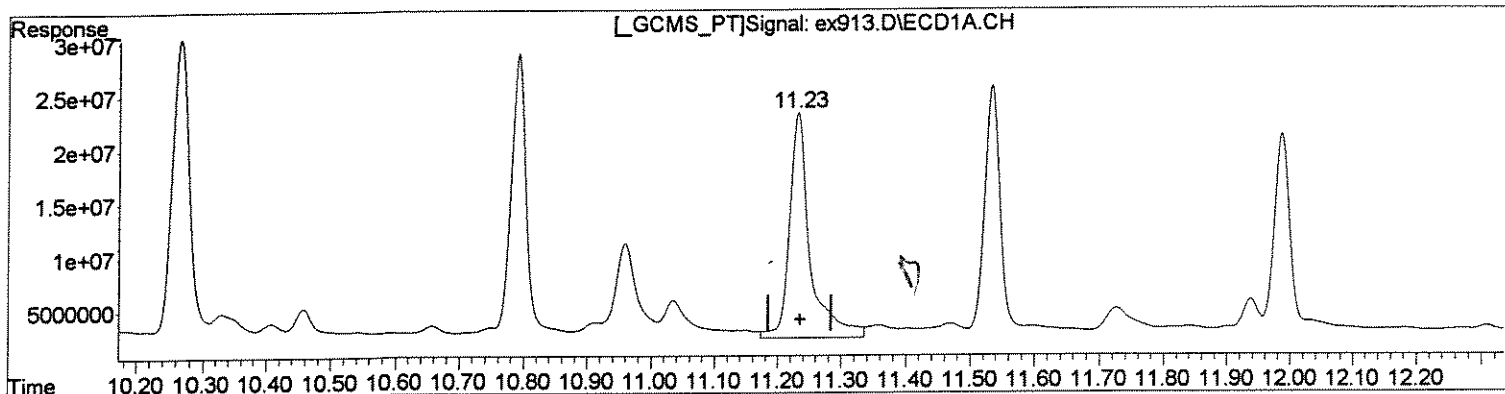
Handwritten notes:
11/1
11/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(8) delta-BHC (tc)
11.23min 17.235ug/l
response 476659605

(8) delta-BHC #2 (tc)
11.25min 14.686ug/l
response 1220311329

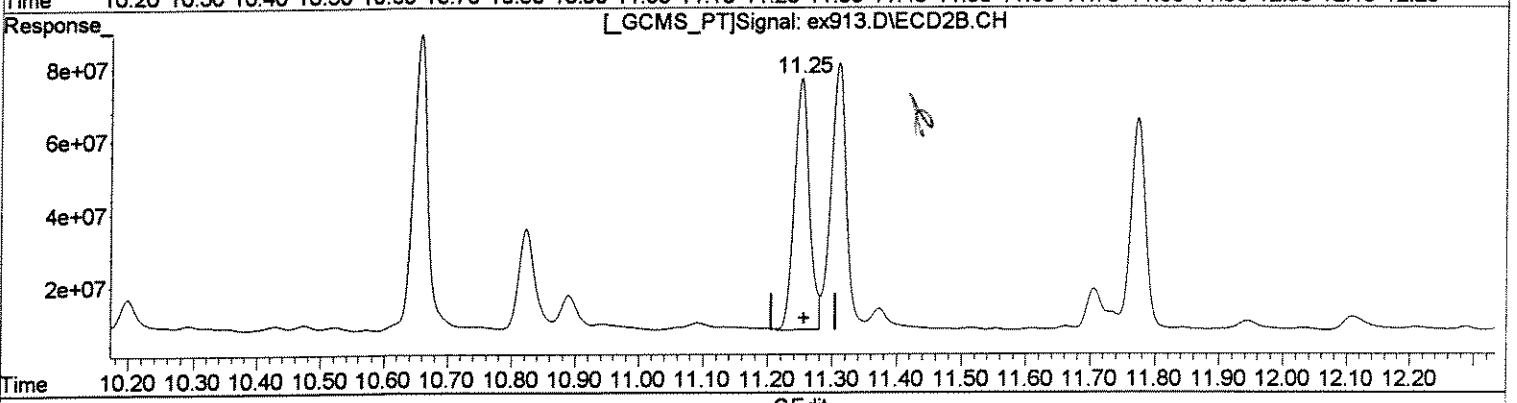
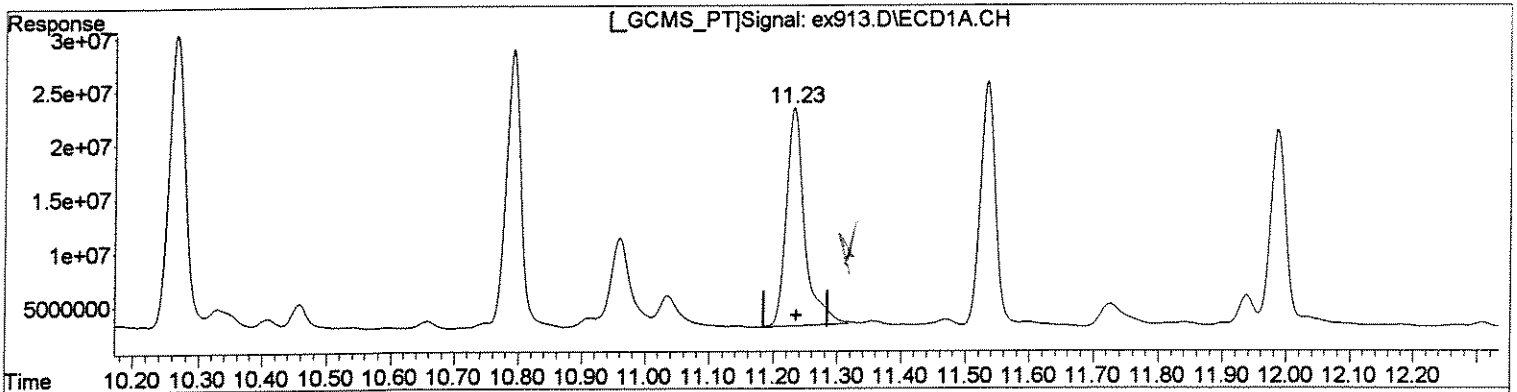
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(8) delta-BHC (tc)
11.23min 14.530ug/l m
response 401850913

11/21

(8) delta-BHC #2 (tc)
11.25min 13.342ug/l m
response 1108628400

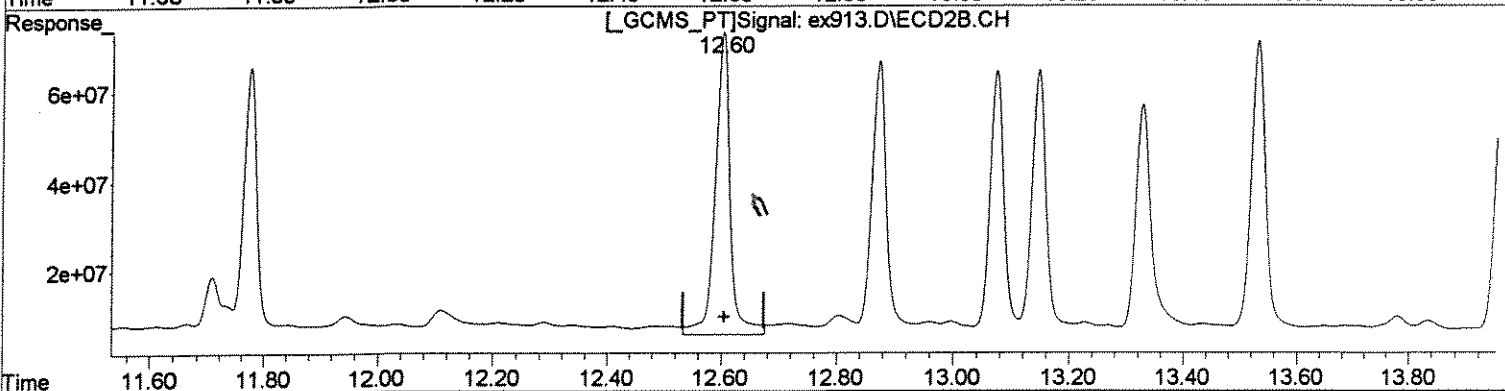
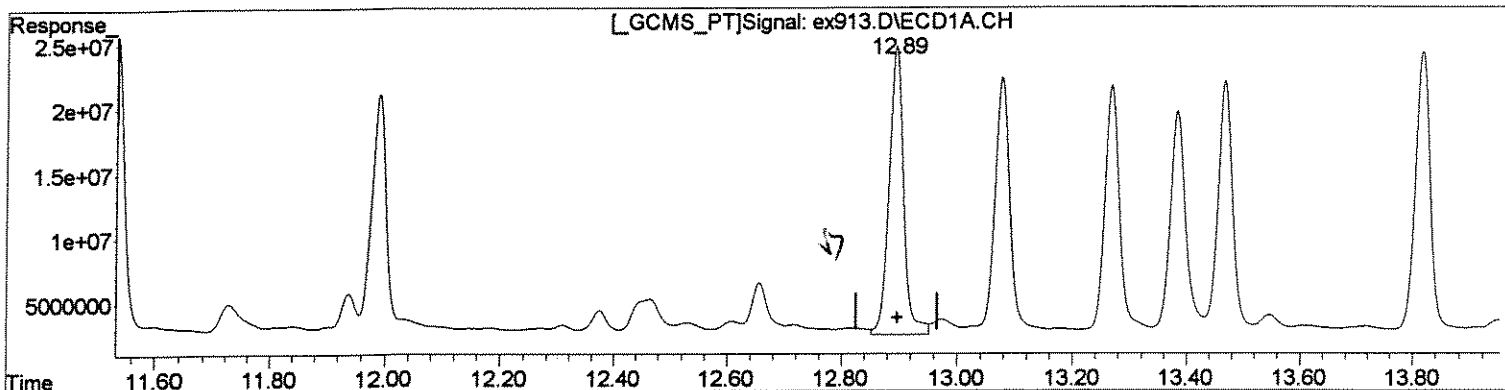
11/21

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
12.89min 16.760ug/l
response 386179287

(9) Heptachlor E #2 (tc)
12.60min 18.322ug/l
response 1231080563

Handwritten mark

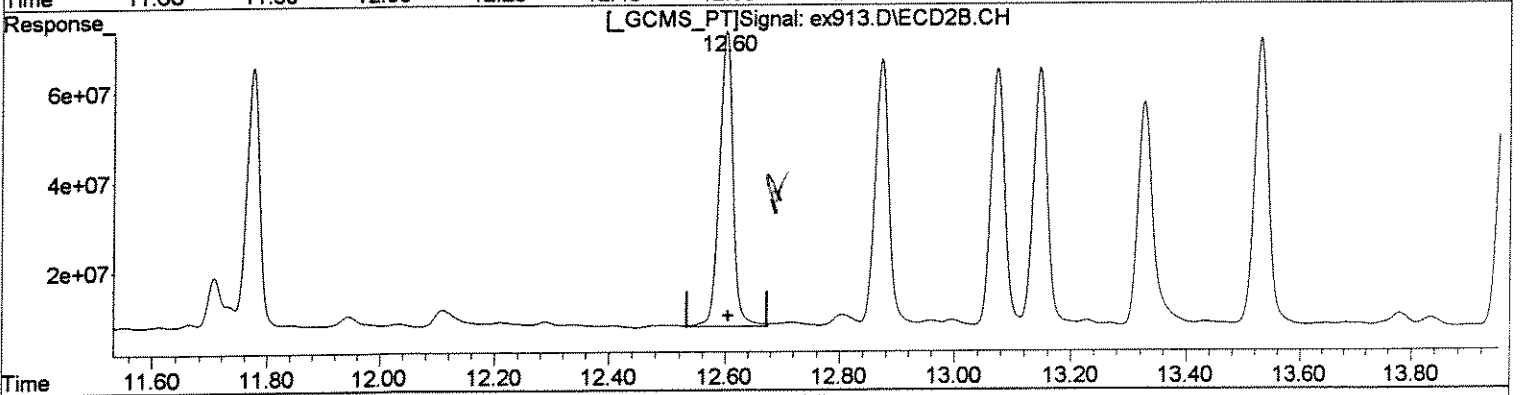
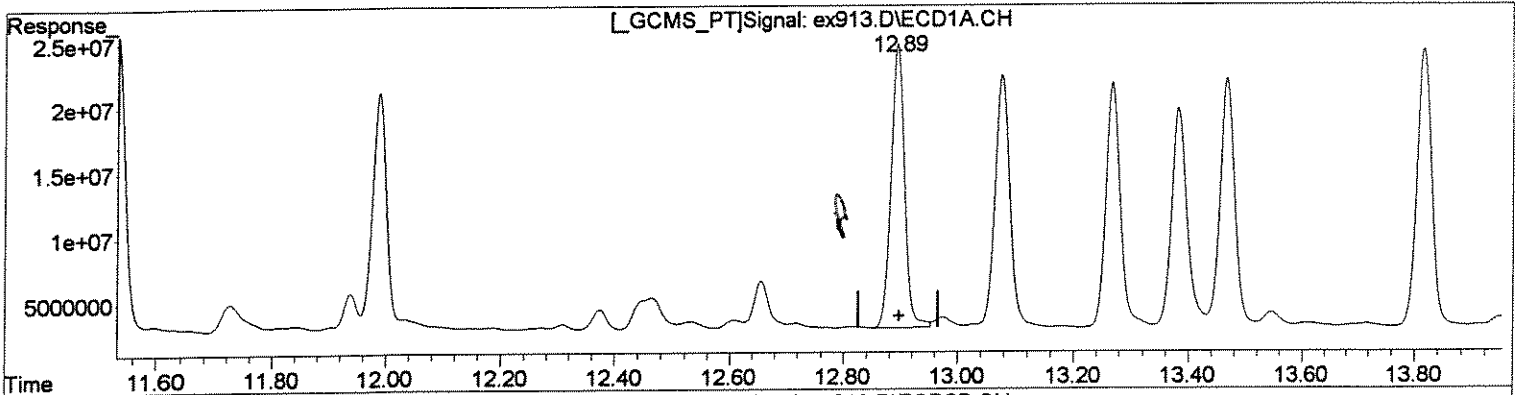
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
12.89min 15.743ug/l m
response 362741166

mw 7/1
mw 7/1

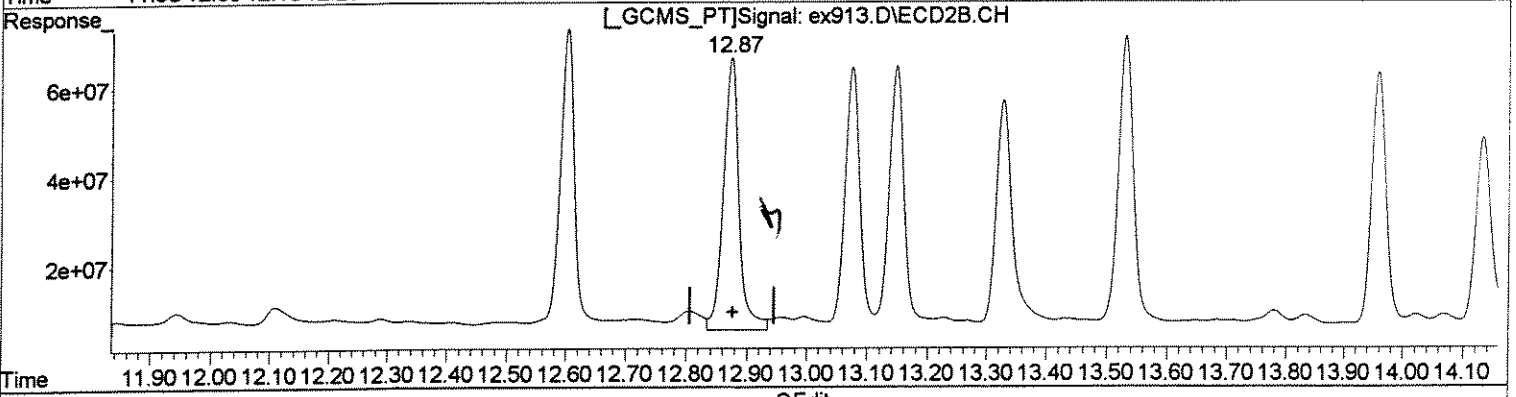
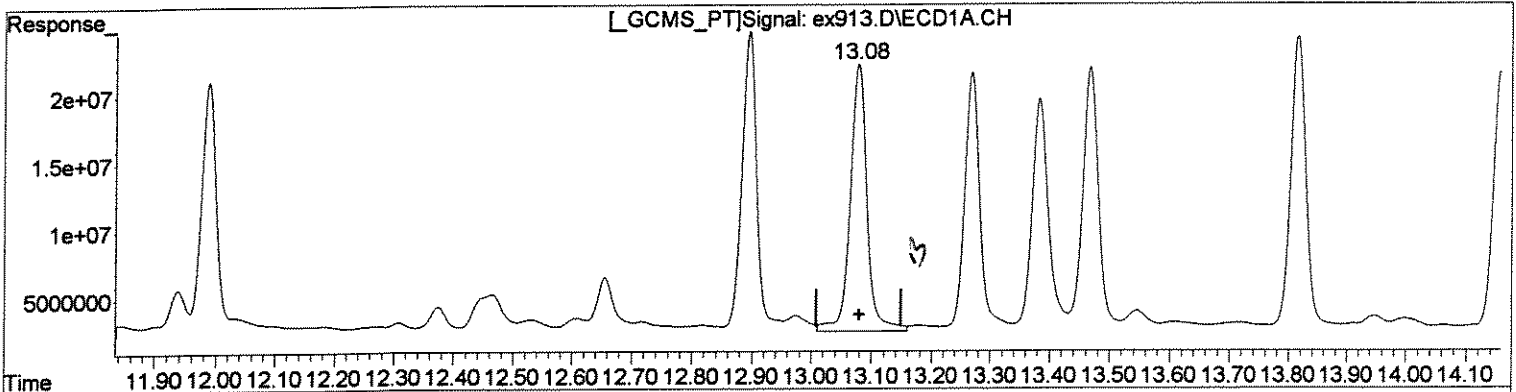
(9) Heptachlor E #2 (tc)
12.60min 16.228ug/l m
response 1090396601

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(11) gamma-Chlord (tc)
13.08min 16.642ug/l
response 379288327

huz

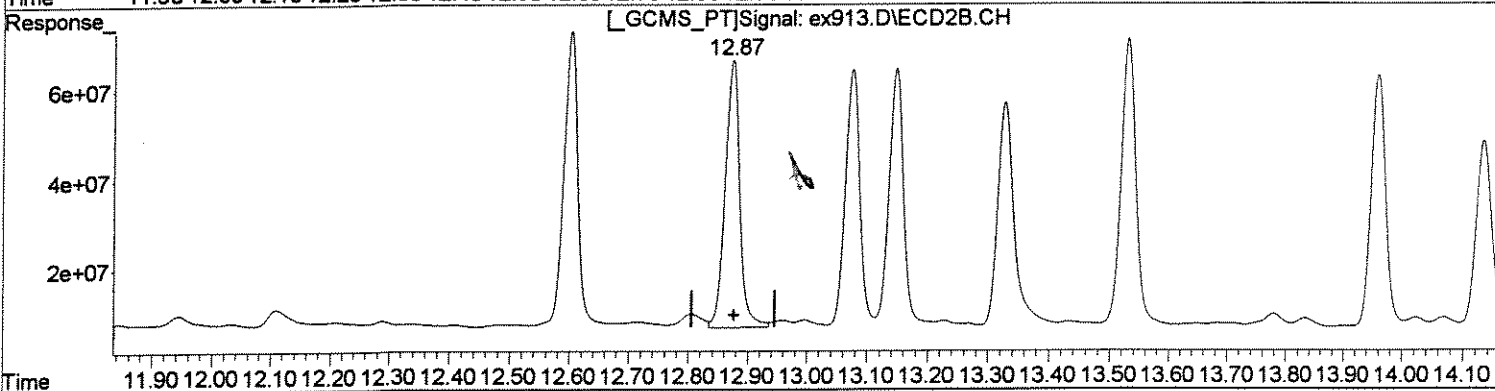
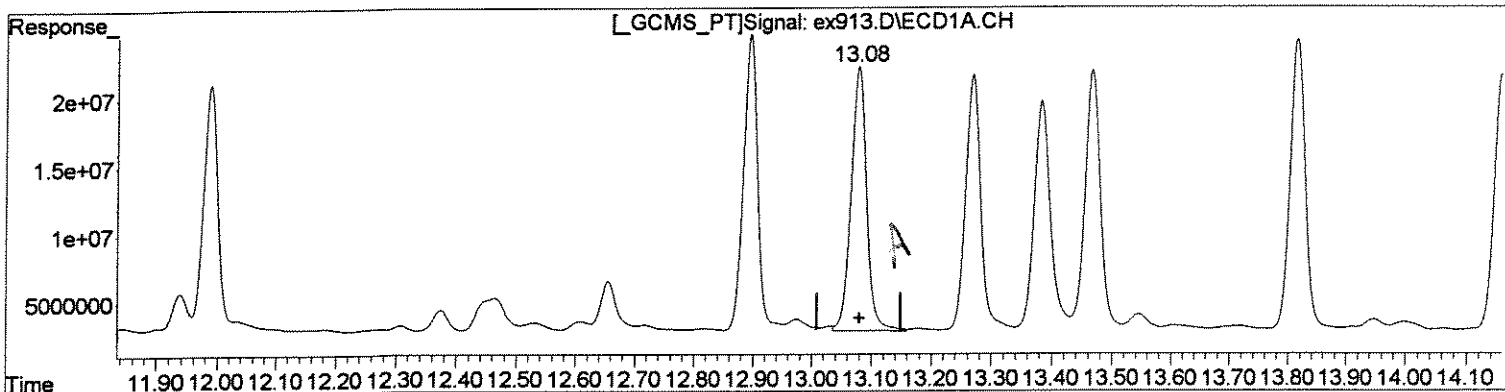
(11) gamma-Chlord #2 (tc)
12.87min 15.735ug/l
response 1097096654

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(11) gamma-Chlord (tc)
13.08min 15.333ug/l m
response 349450806

MV //
WSP
7/1

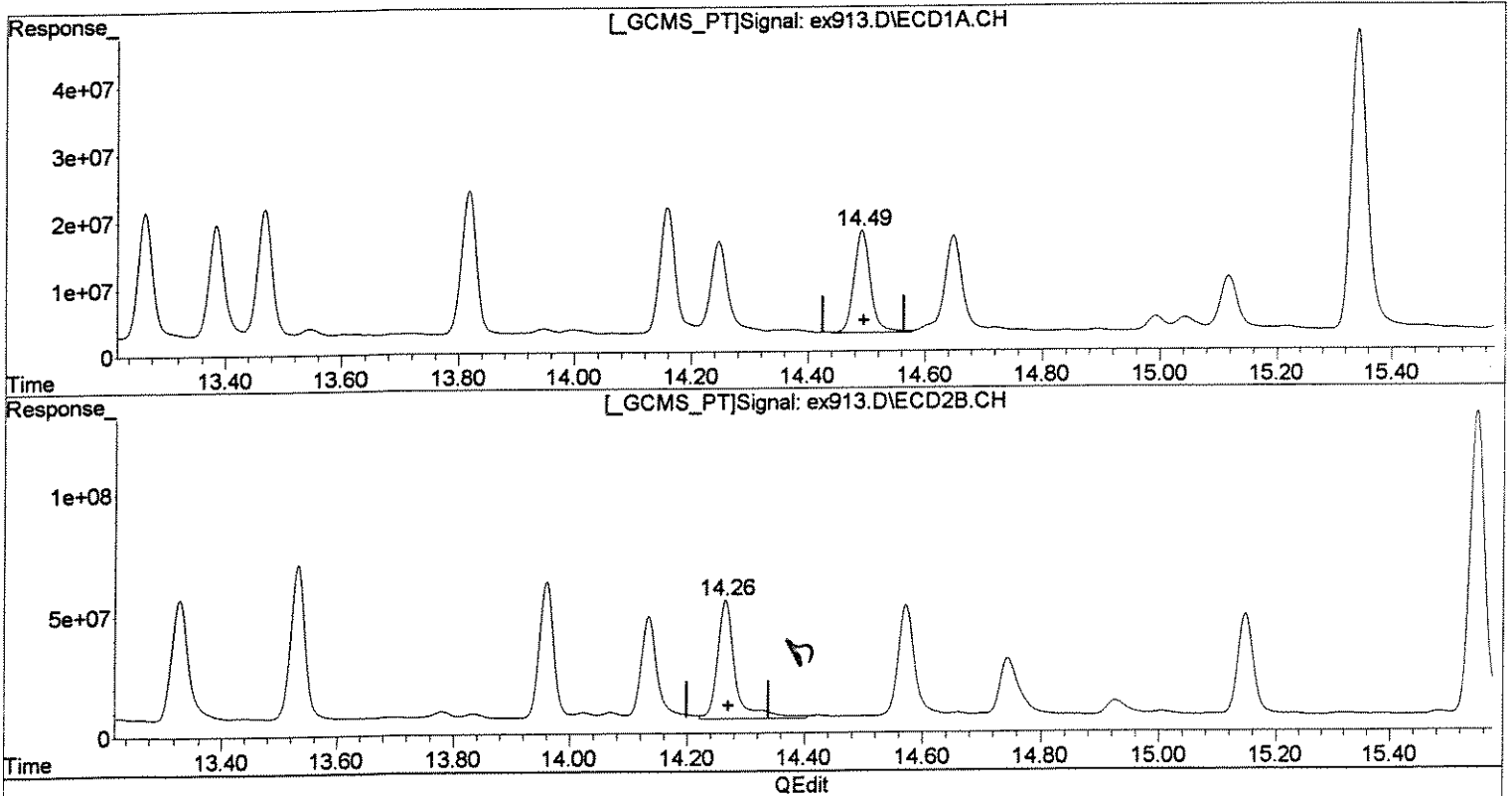
(11) gamma-Chlord #2 (tc)
12.87min 14.701ug/l m
response 1024982669

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) beta-Endosul (tc)
14.49min 15.436ug/l
response 303422971

(17) beta-Endosul #2 (tc)
14.26min 18.837ug/l
response 1033150106

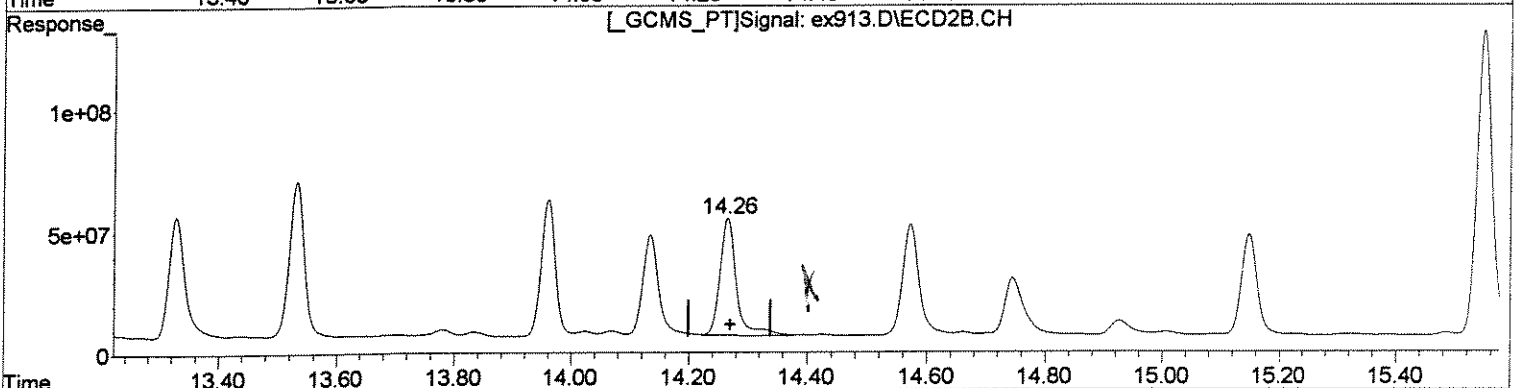
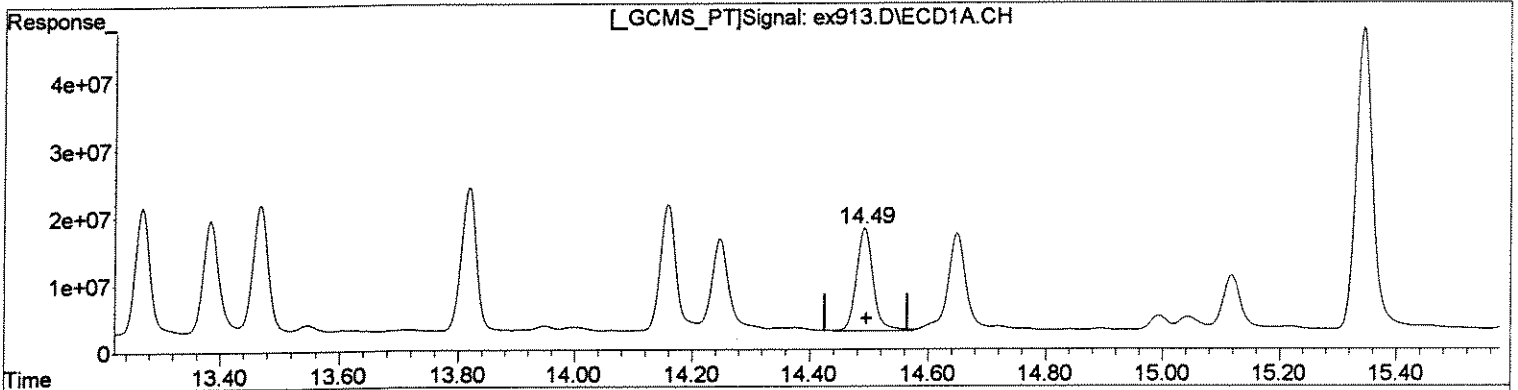
Bore

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) beta-Endosul (tc)
14.49min 15.436ug/l
response 303422971

(17) beta-Endosul #2 (tc)
14.26min 17.121ug/l m
response 939007874

Handwritten notes:
14.49
14.26

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:05 pm
 Operator : M.PEDRO
 Sample : 1113456 1.0
 Misc : 06/27/08 200 ensr 8081 lcs
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:30 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1515.2E6	4576.4E6	80.454	75.004
Spiked Amount	100.000	Range 30 - 150	Recovery =		80.45%	75.00%
25) S SURR2,Decachloro	17.39	17.46	1361.1E6	3310.3E6	79.688	75.835
Spiked Amount	100.000	Range 30 - 150	Recovery =		79.69%	75.83%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1005.4E6	3107.2E6	37.009	35.311
3) tc alpha-BHC	10.26	10.09	504.5E6	1604.4E6	16.800	17.351
4) tcm gamma-BHC (L	10.79	10.65	494.0E6	1550.0E6	17.972	18.866
5) tcm Heptachlor	11.53	11.31	407.4E6	1322.0E6	15.140	16.553
6) tcm Aldrin	11.99	11.77	385.4E6	1049.0E6	15.657	13.997
7) tc beta-BHC	10.96	10.82	250.3E6	633.9E6	21.682	17.770
8) tc delta-BHC	11.23	11.25	476.7E6	1220.3E6	17.235	14.686
9) tc Heptachlor E	12.89	12.60	386.2E6	1231.1E6	16.760	18.322
10) tc alpha-Endosu	13.47	13.15	358.9E6	1049.6E6	17.420	17.615
11) tc gamma-Chlord	13.08	12.87	379.3E6	1097.1E6	16.642	15.735
12) tc alpha-Chlord	13.27	13.07	355.1E6	1010.3E6	15.889	15.213
13) tc 4,4'-DDE	13.38	13.33	332.1E6	1040.6E6	14.772	15.965
14) tcm Dieldrin	13.82	13.53	401.9E6	1222.2E6	17.259	18.730
15) tcm Endrin	14.16	13.96	365.5E6	1021.7E6	17.521	18.013
16) tc KEPONE	14.25	0.00	300.8E6	0	48.067	N.D. #
17) tc beta-Endosul	14.49	14.26	303.4E6	1033.2E6	15.436	18.837
18) tc 4,4'-DDD	14.25	14.13	300.8E6	846.4E6	15.993	16.395
19) tcm 4,4'-DDT	14.65	14.57	318.8E6	927.2E6	15.915	16.920
20) tc Endrin Aldeh	15.12	14.74	182.9E6	597.2E6	12.378	14.844
21) tc Endosulfan S	15.76	15.15	284.4E6	800.9E6	15.678	16.136
22) tc Methoxychlor	15.34	15.55	908.8E6	2286.8E6	92.082	94.828
23) tc FAMPHUR	0.00	15.32	0	24869459	N.D.	0.782 #
24) tc Endrin Keton	16.16	15.91	340.1E6	878.3E6	16.287	16.223
26) L8C Toxaphene	0.00	14.42	0	30888909	N.D.	18.853 #
29) L8C Toxaphene{4}	16.16	16.08	340.1E6	18183221	382.623	11.179 #
30) L8C Toxaphene{5}	16.34	0.00	17625170	0	26.105	N.D. #

0.004

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:05 pm
 Operator : M.PEDRO
 Sample : 1113456 1.0
 Misc : 06/27/08 200 ensr 8081 lcs
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:30 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum Toxaphene			357.7E6	49072130	408.728	30.031
Average Toxaphene					204.364	15.016
31) L9C Chlordane	0.00	11.14	0	123.1E6	N.D.	48.889 #
32) L9C Chlordane {2}	11.53	0.00	407.4E6	0	374.584	N.D. #
33) L9C Chlordane {3}	0.00	12.03	0	98056320	N.D.	35.319 #
34) L9C Chlordane {4}	13.08	0.00	379.3E6	0	138.585	N.D. #
Sum Chlordane			786.7E6	221.2E6	513.169	84.208
Average Chlordane					256.584	42.104

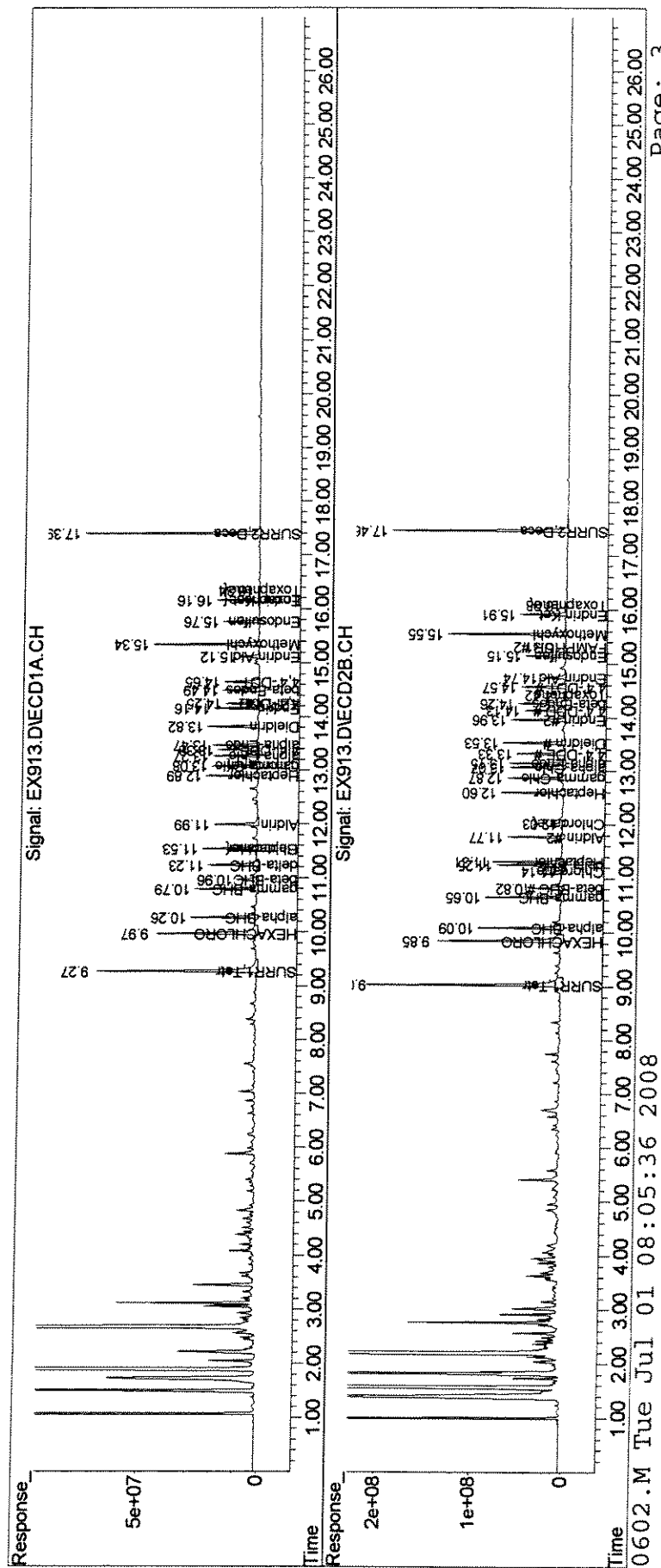
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase : STX-CLPII
Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/25/08

Project Reference:

Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : Order #: 1113457 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.081	UG/L
ALPHA-BHC	0.050	0.097	UG/L
BETA-BHC	0.050	0.091	UG/L
GAMMA-BHC	0.050	0.098	UG/L
DELTA-BHC	0.050	0.094	UG/L
ALPHA-CHLORDANE	0.050	0.095	UG/L
GAMMA-CHLORDANE	0.050	0.10	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.093	UG/L
4,4'-DDT	0.050	0.11	UG/L
DIELDRIN	0.10	0.11	UG/L
ALPHA-ENDOSULFAN	0.050	0.10	UG/L
BETA-ENDOSULFAN	0.10	0.11	UG/L
ENDOSULFAN SULFATE	0.10	0.10	UG/L
ENDRIN	0.050	0.11	UG/L
ENDRIN ALDEHYDE	0.10	0.10	UG/L
ENDRIN KETONE	0.10	0.10	UG/L
HEPTACHLOR	0.050	0.095	UG/L
HEPTACHLOR EPOXIDE	0.050	0.10	UG/L
HEXACHLOROBENZENE	0.050	0.21	UG/L
METHOXYCHLOR	0.50	0.60	UG/L
4,4'-TDE (DDD)	0.050	0.10	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	93	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	97	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex914.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:40 pm
 Operator : M.PEDRO
 Sample : 1113457 1.0
 Misc : 06/27/08 200 ensr 8081 lcsd
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:43:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1826.1E6	5538.2E6	96.961	90.767
Spiked Amount	100.000	Range 30 - 150	Recovery =		96.96%	90.77%
25) S SURR2,Decachloro	17.39	17.46	1583.1E6	3863.2E6	92.688	88.503
Spiked Amount	100.000	Range 30 - 150	Recovery =		92.69%	88.50%
Target Compounds						
2) TC HEXACHLORO BENZEN	9.97	9.85	1138.0E6	3570.1E6	41.892m	40.572m
3) tc alpha-BHC	10.26	10.09	582.1E6	1700.5E6	19.382m	18.390m
4) tcm gamma-BHC (L)	10.79	10.65	535.6E6	1616.9E6	19.483m	19.681m
5) tcm Heptachlor	11.53	11.31	483.7E6	1515.6E6	17.977m	18.977m
6) tcm Aldrin	11.99	11.77	397.3E6	1191.1E6	16.143m	15.893m
7) tc beta-BHC	10.96	10.82	209.8E6	630.9E6	18.172m	17.687m
8) tc delta-BHC	11.23	11.25	520.3E6	1407.1E6	18.814m	16.934m
9) tc Heptachlor E	12.89	12.60	449.3E6	1348.1E6	19.501m	20.063m
10) tc alpha-Endosu	13.47	13.15	430.8E6	1194.2E6	20.908m	20.042m
11) tc gamma-Chlord	13.08	12.87	455.0E6	1244.3E6	19.966m	17.846m
12) tc alpha-Chlord	13.27	13.07	424.8E6	1177.0E6	19.008m	17.722m
13) tc 4,4'-DDE	13.38	13.33	410.9E6	1213.4E6	18.276m	18.617m
14) tcm Dieldrin	13.81	13.53	492.3E6	1428.5E6	21.143m	21.892m
15) tcm Endrin	14.16	13.96	451.8E6	1221.4E6	21.661m	21.533m
17) tc beta-Endosul	14.49	14.26	403.7E6	1193.4E6	20.534	21.759
18) tc 4,4'-DDD	14.24	14.13	374.5E6	1013.4E6	19.912m	19.628m
19) tcm 4,4'-DDT	14.65	14.57	438.6E6	1231.5E6	21.894	22.472
20) tc Endrin Aldeh	15.12	14.75	216.5E6	806.6E6	14.652	20.049 #
21) tc Endosulfan S	15.76	15.15	361.3E6	1003.6E6	19.918	20.220
22) tc Methoxychlor	15.34	15.55	1145.4E6	2877.9E6	116.055	119.338
24) tc Endrin Keton	16.16	15.91	433.1E6	1126.1E6	20.742	20.801
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 09:43:54 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

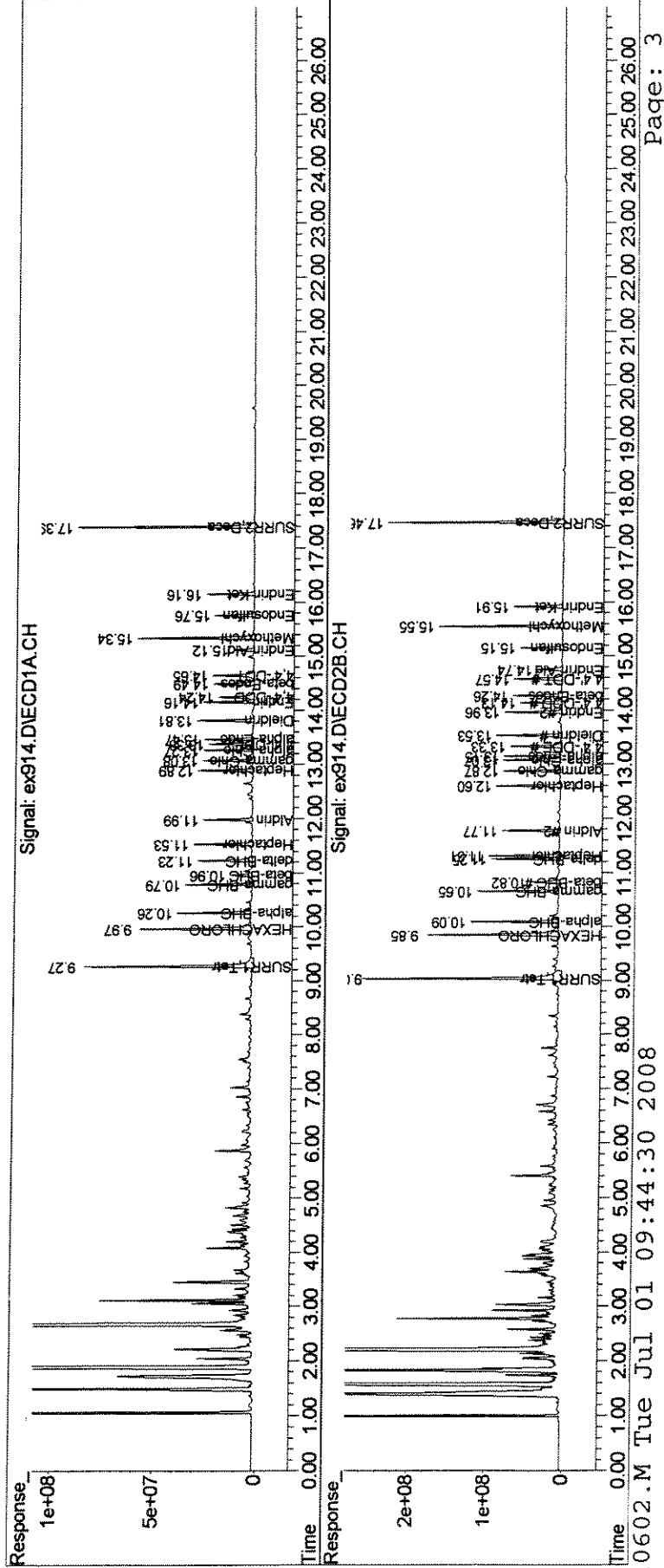
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQDATA\6890D\DATA\063008\
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Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase : STx-CLPII
Signal #2 Info : 0.32mm 30m



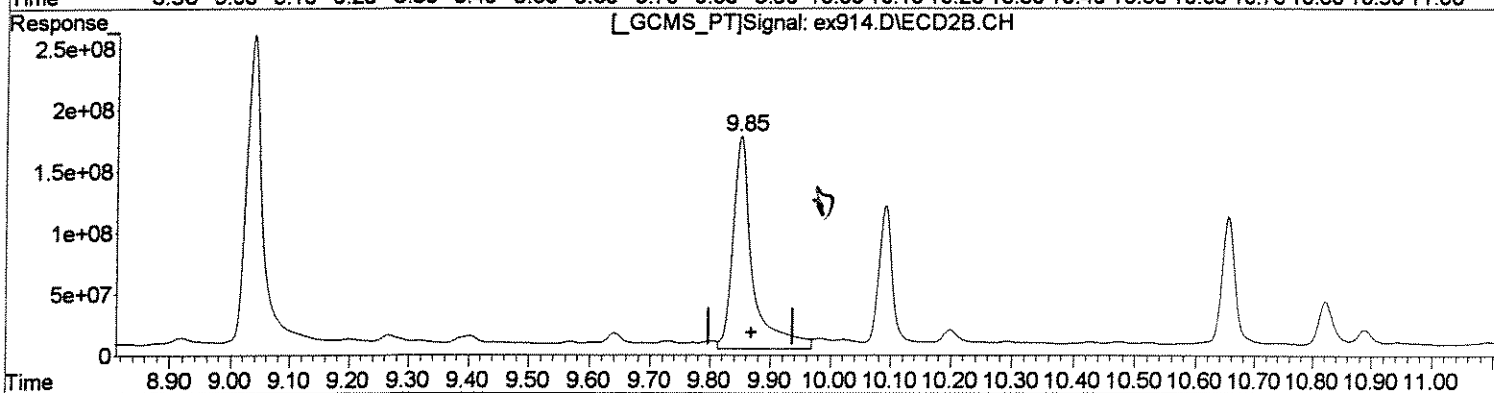
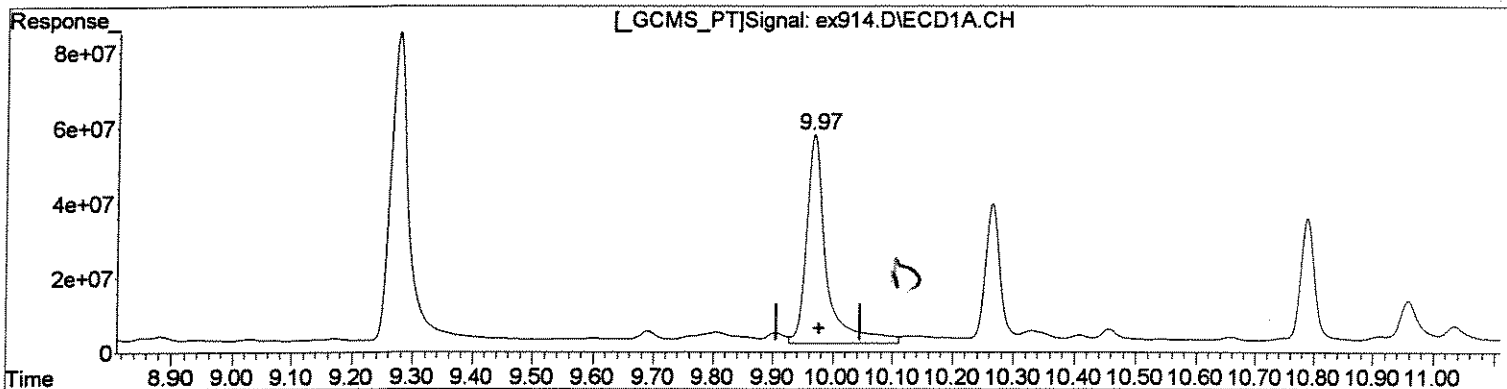
01566

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
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Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(2) HEXACHLOROBENZENE (TC)

9.97min 47.819ug/l
response 1299009491

(2) HEXACHLOROBENZENE #2 (TC)

9.85min 45.172ug/l
response 3974909709

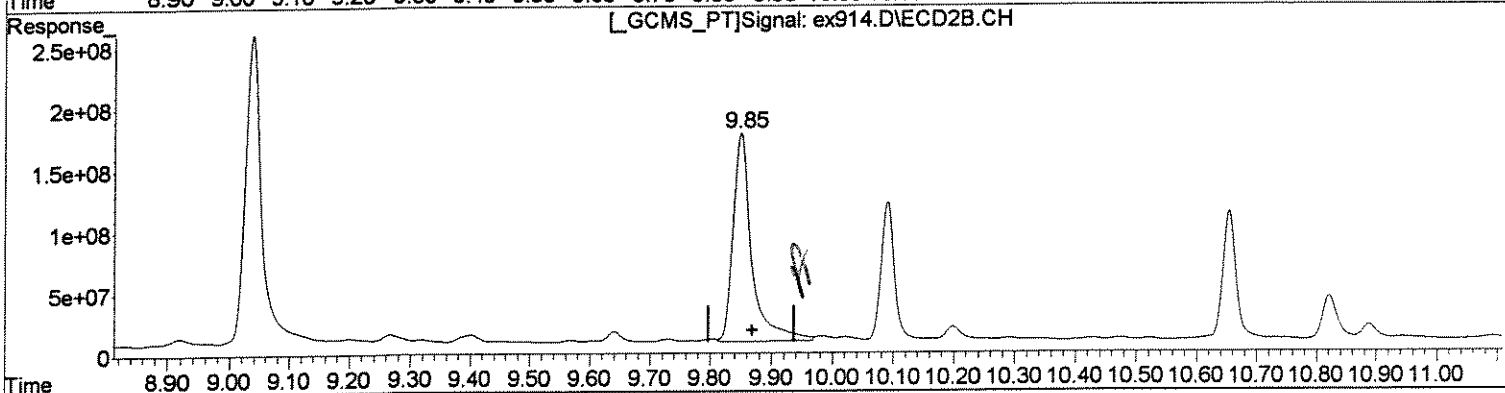
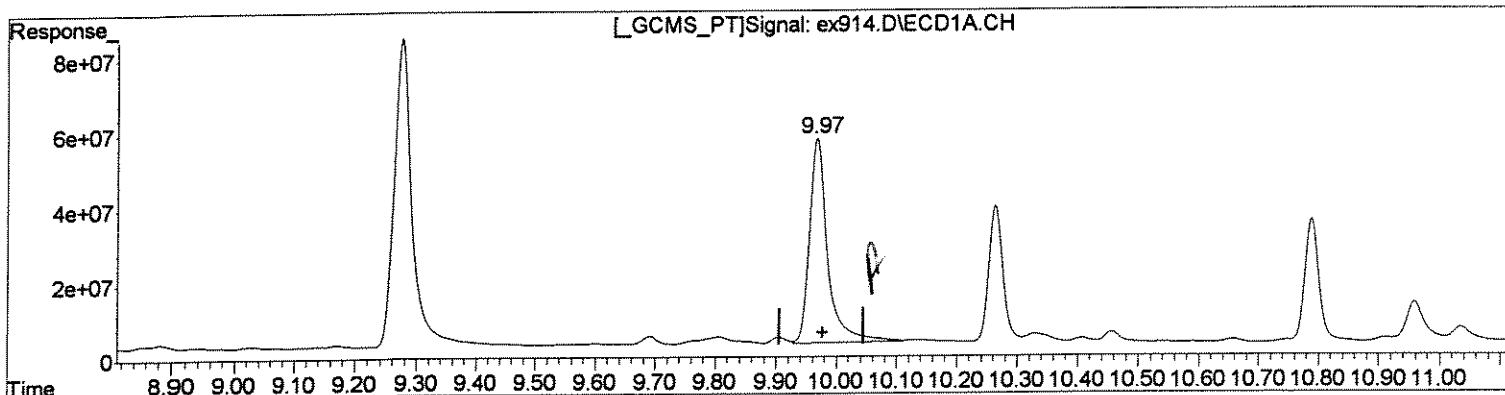
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
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ALS Vial : 10 Sample Multiplier: 1

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Quant Title : 608/8081A PESTICIDES
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Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(2) HEXACHLOROENZENE (TC)

9.97min 41.892ug/l m
response 1138000414

(2) HEXACHLOROENZENE #2 (TC)

9.85min 40.572ug/l m
response 3570132447

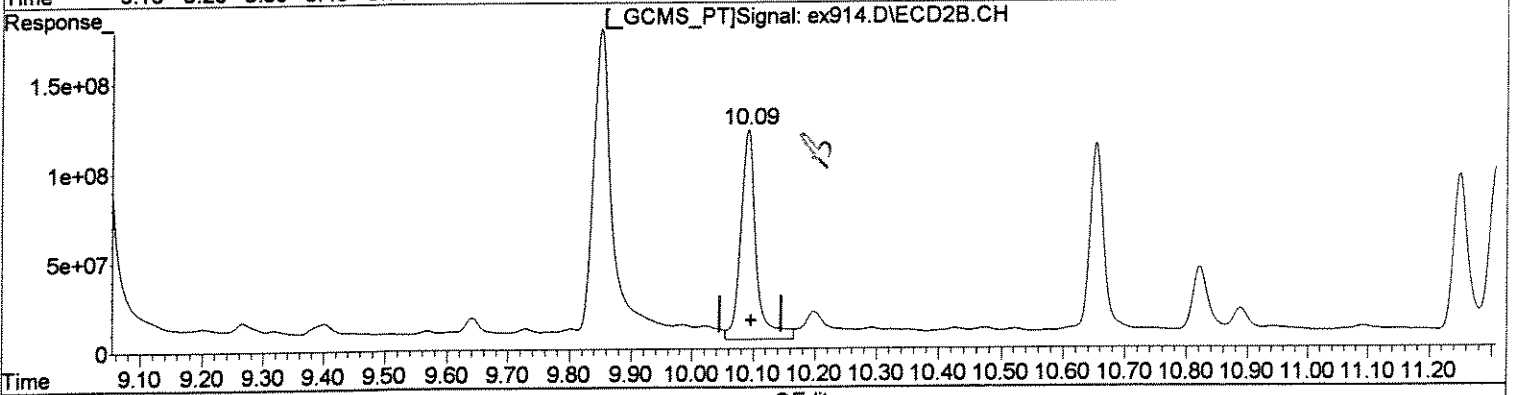
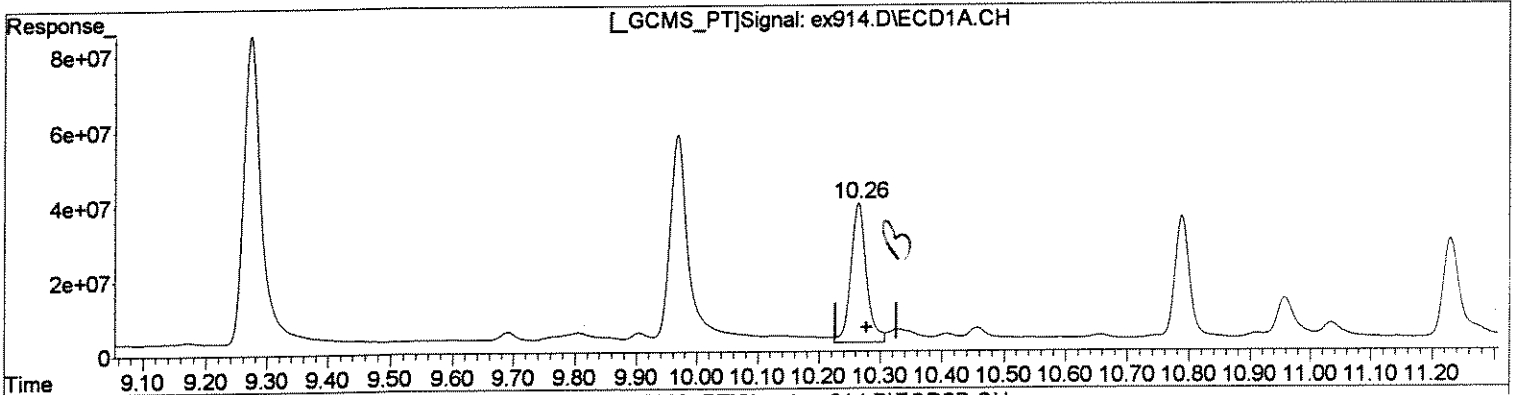
Handwritten signatures and initials:
M.P. 7/1
M.P. 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
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Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
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Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 21.943ug/l
response 658980146

(3) alpha-BHC #2 (tc)
10.09min 22.127ug/l
response 2046030901

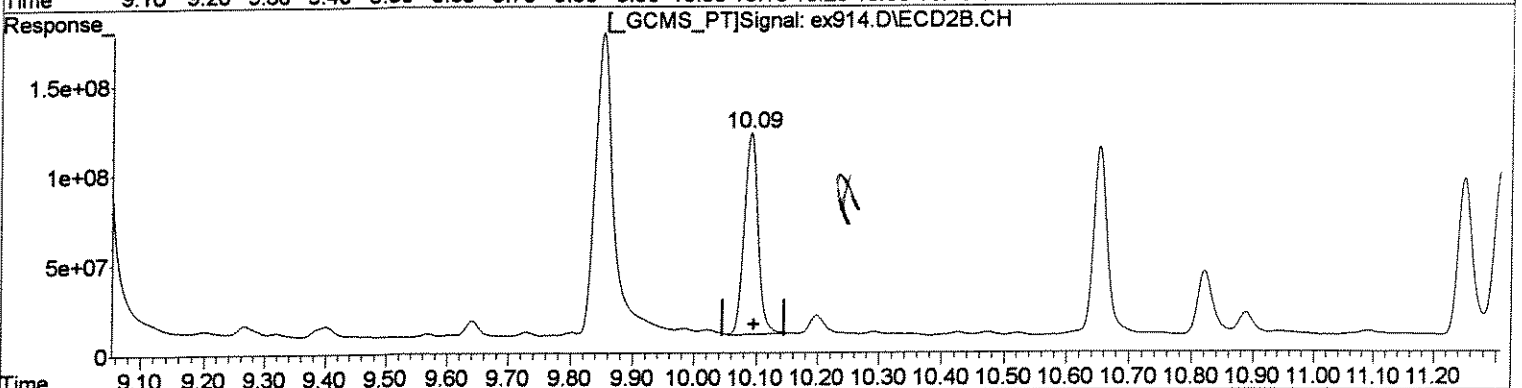
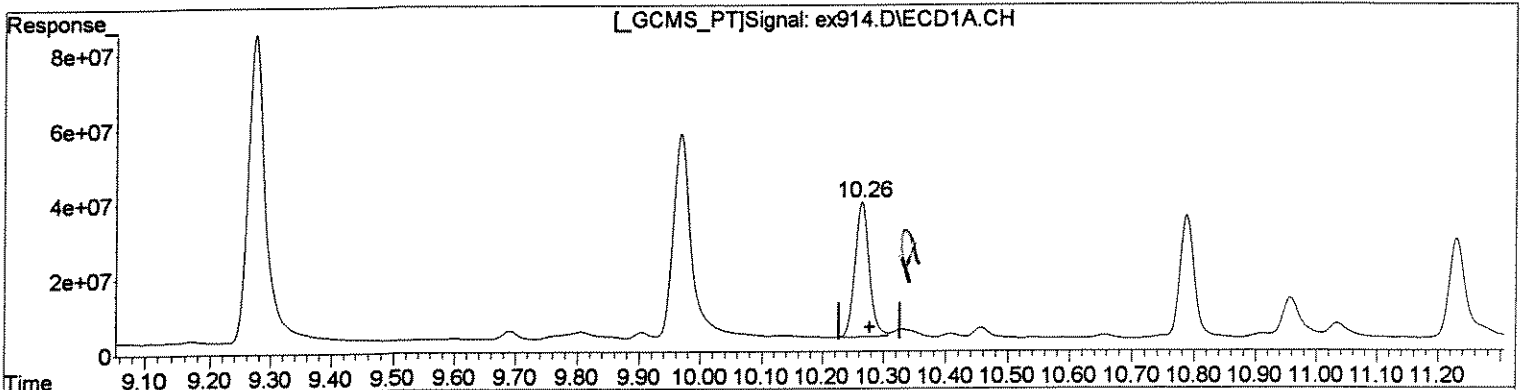
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
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Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

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Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
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Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)
10.26min 19.382ug/l m
response 582058337

(3) alpha-BHC #2 (tc)
10.09min 18.390ug/l m
response 1700495194

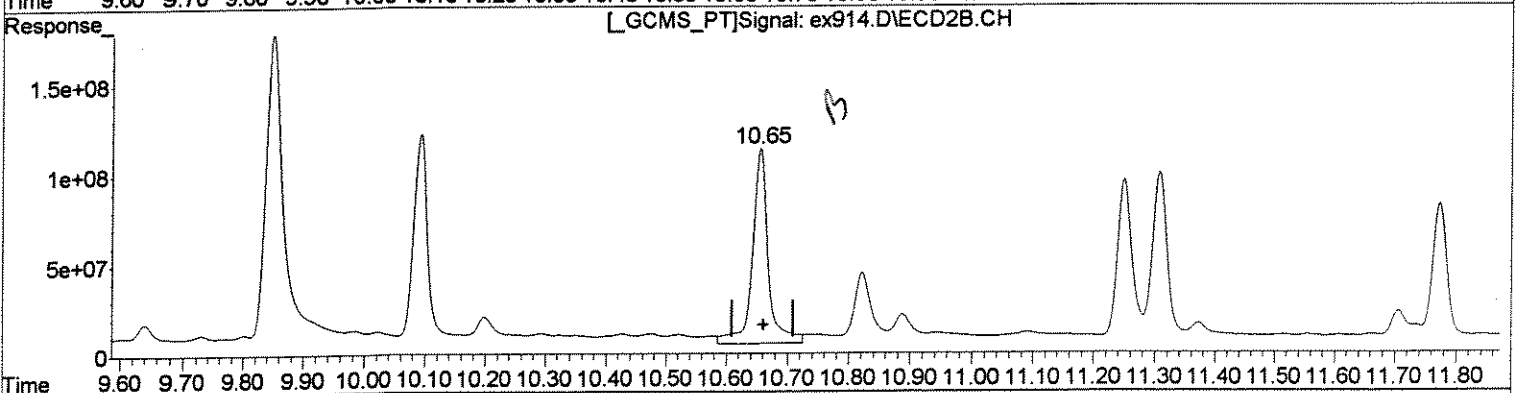
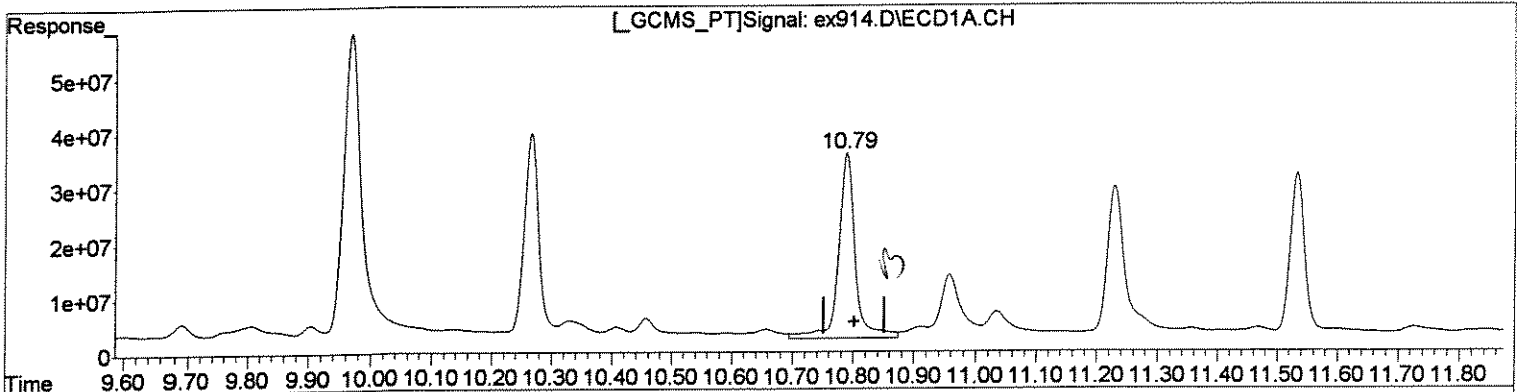
Handwritten notes:
M.P. 7/1
M.P. 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm))
10.79min 23.390ug/l
response 642964952

(4) gamma-BHC (L #2 (tcm))
10.65min 24.096ug/l
response 1979692880

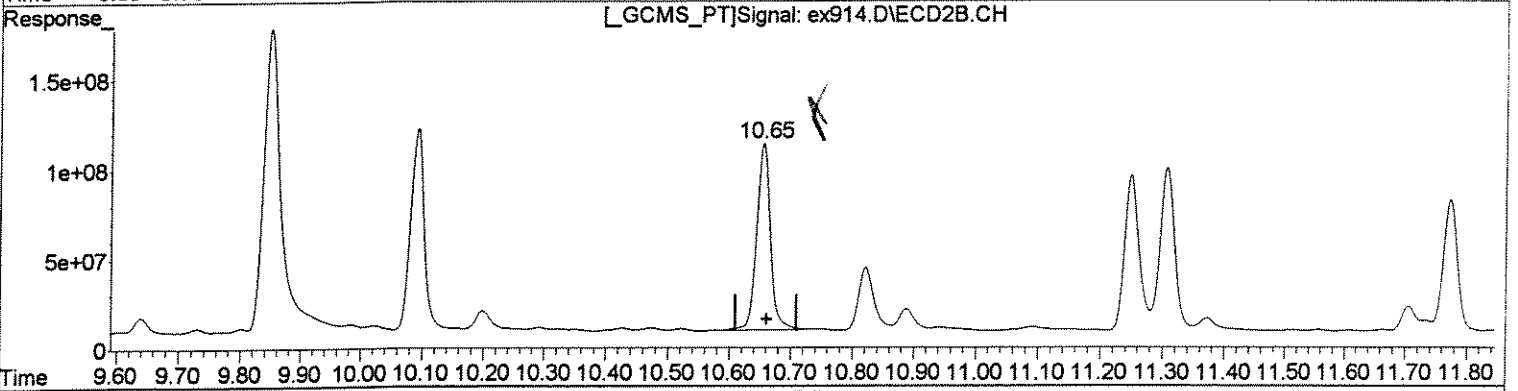
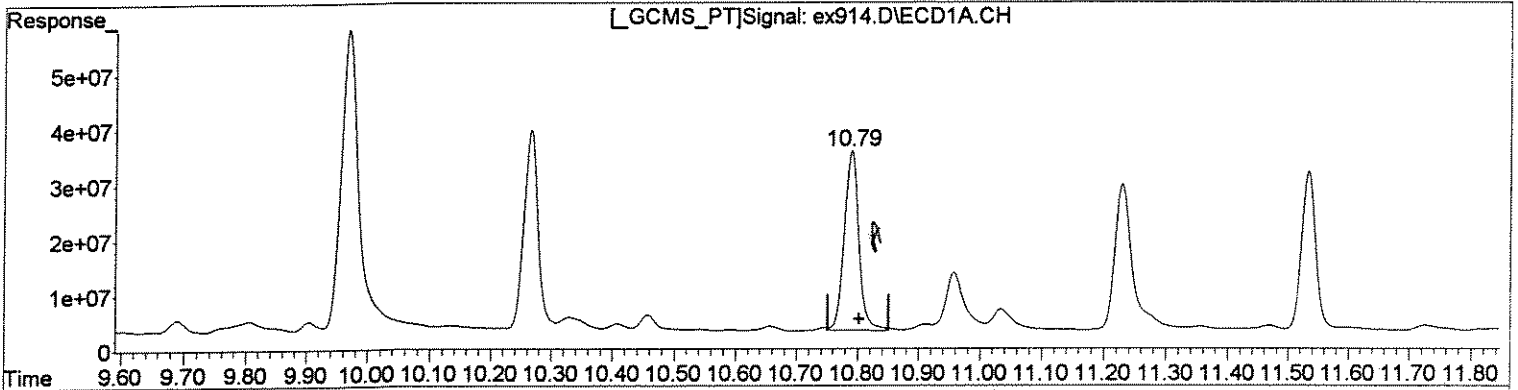
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Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
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Quant Title : 608/8081A PESTICIDES
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Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm))
10.79min 19.483ug/l m
response 535561543

(4) gamma-BHC (L #2 (tcm))
10.65min 19.681ug/l m
response 1616922939

Handwritten signature

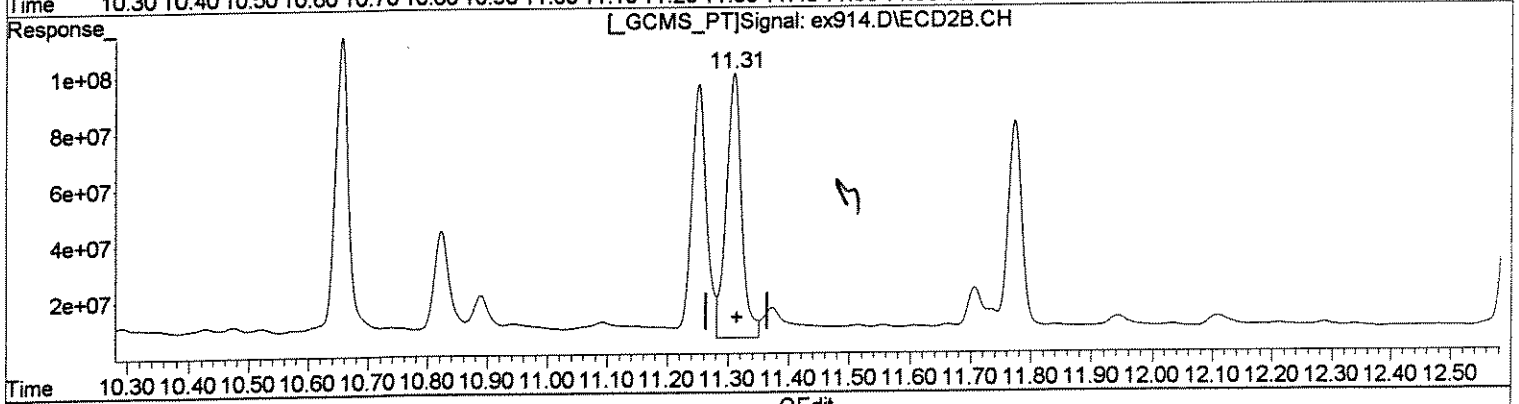
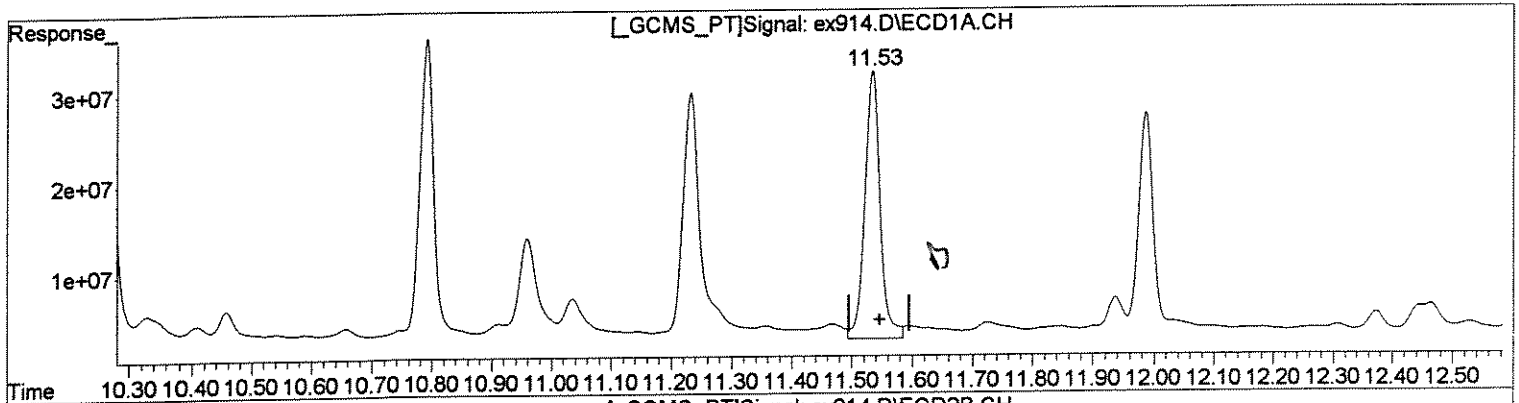
Handwritten initials

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
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Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
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Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(5) Heptachlor (tcm)
11.53min 19.441ug/l
response 523124285

(5) Heptachlor #2 (tcm)
11.31min 20.706ug/l
response 1653695284

Handwritten signature

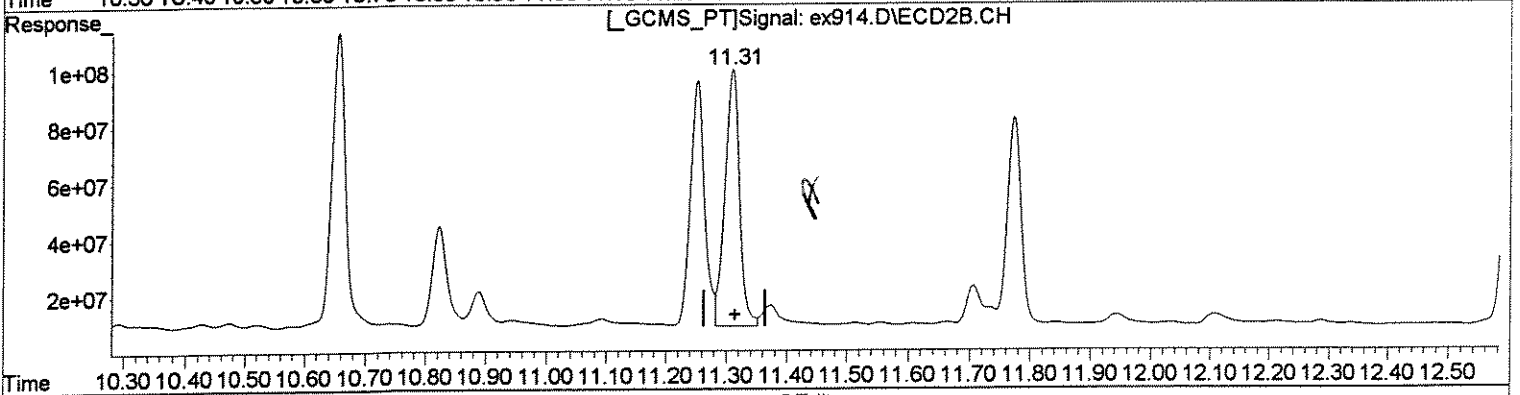
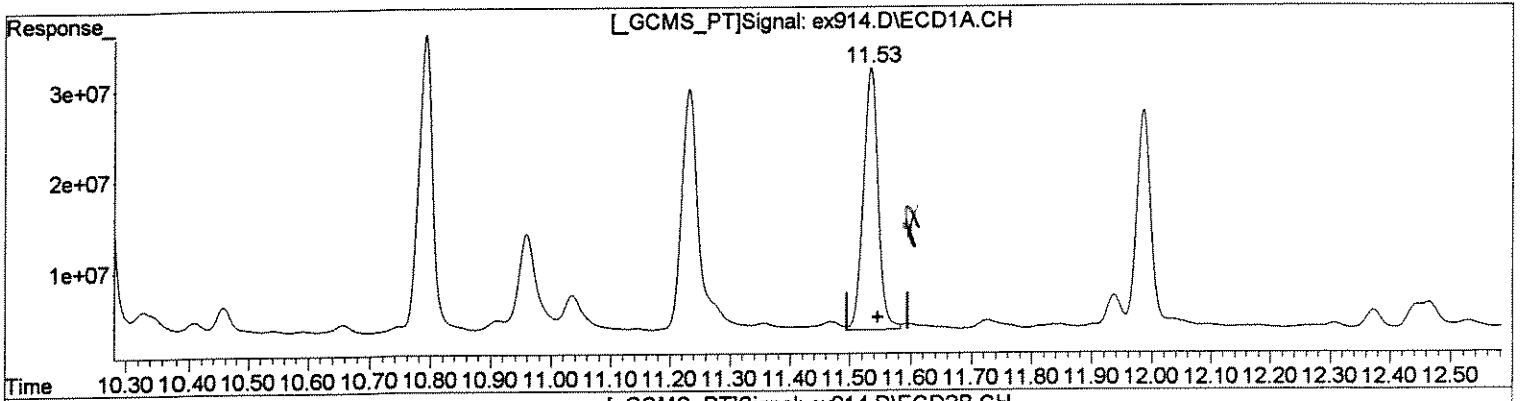
QEdit

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
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Integration File signal 2: EVENTS2.E
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Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(5) Heptachlor (tcm)
11.53min 17.977ug/l m
response 483724847

(5) Heptachlor #2 (tcm)
11.31min 18.977ug/l m
response 1515615484

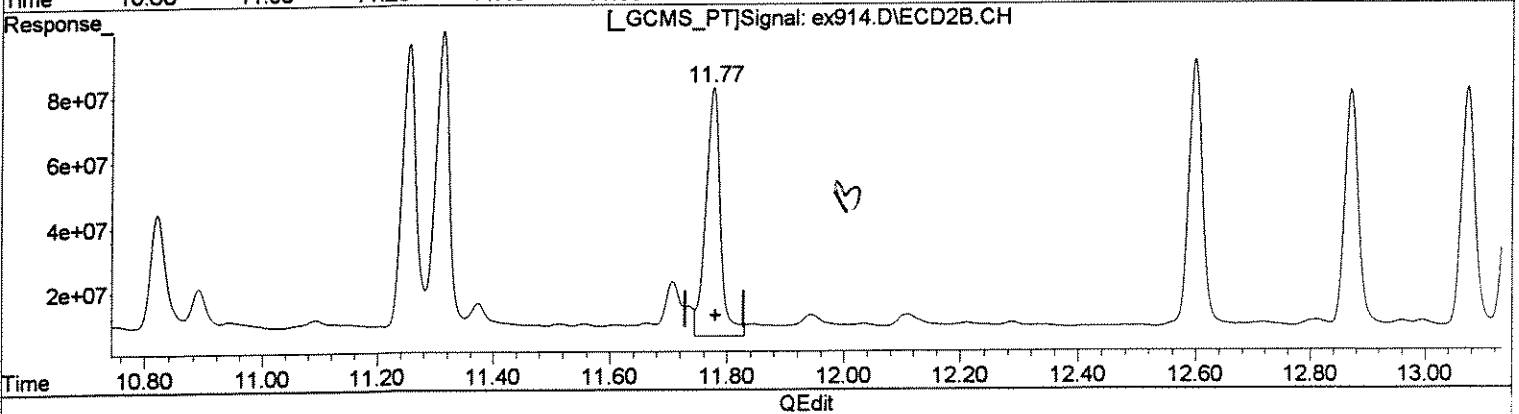
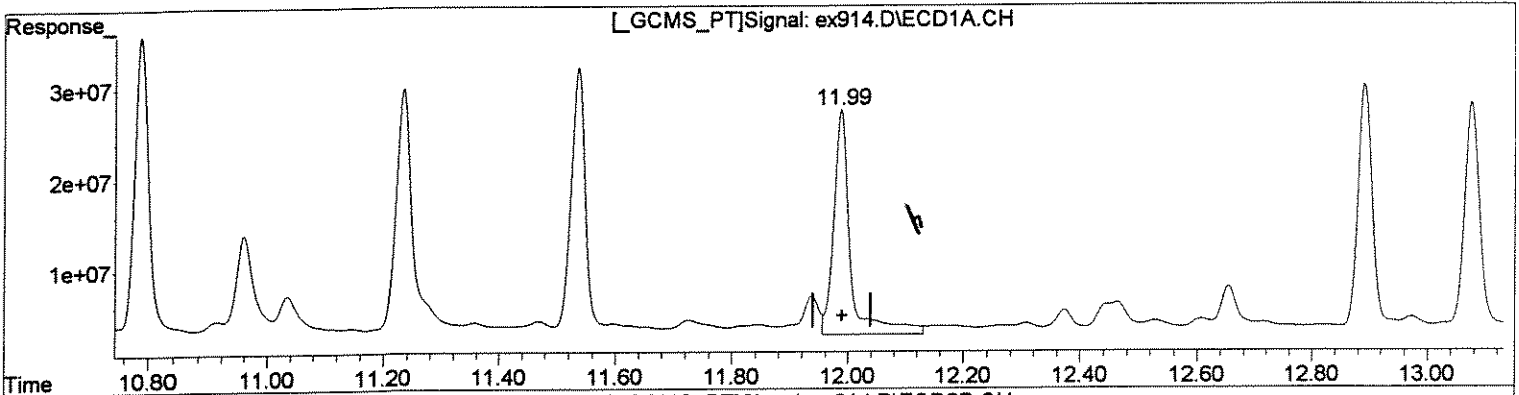
Handwritten signatures and initials

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
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Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(6) Aldrin (tcm)
11.99min 20.572ug/l
response 506341283

(6) Aldrin #2 (tcm)
11.77min 17.859ug/l
response 1338477806

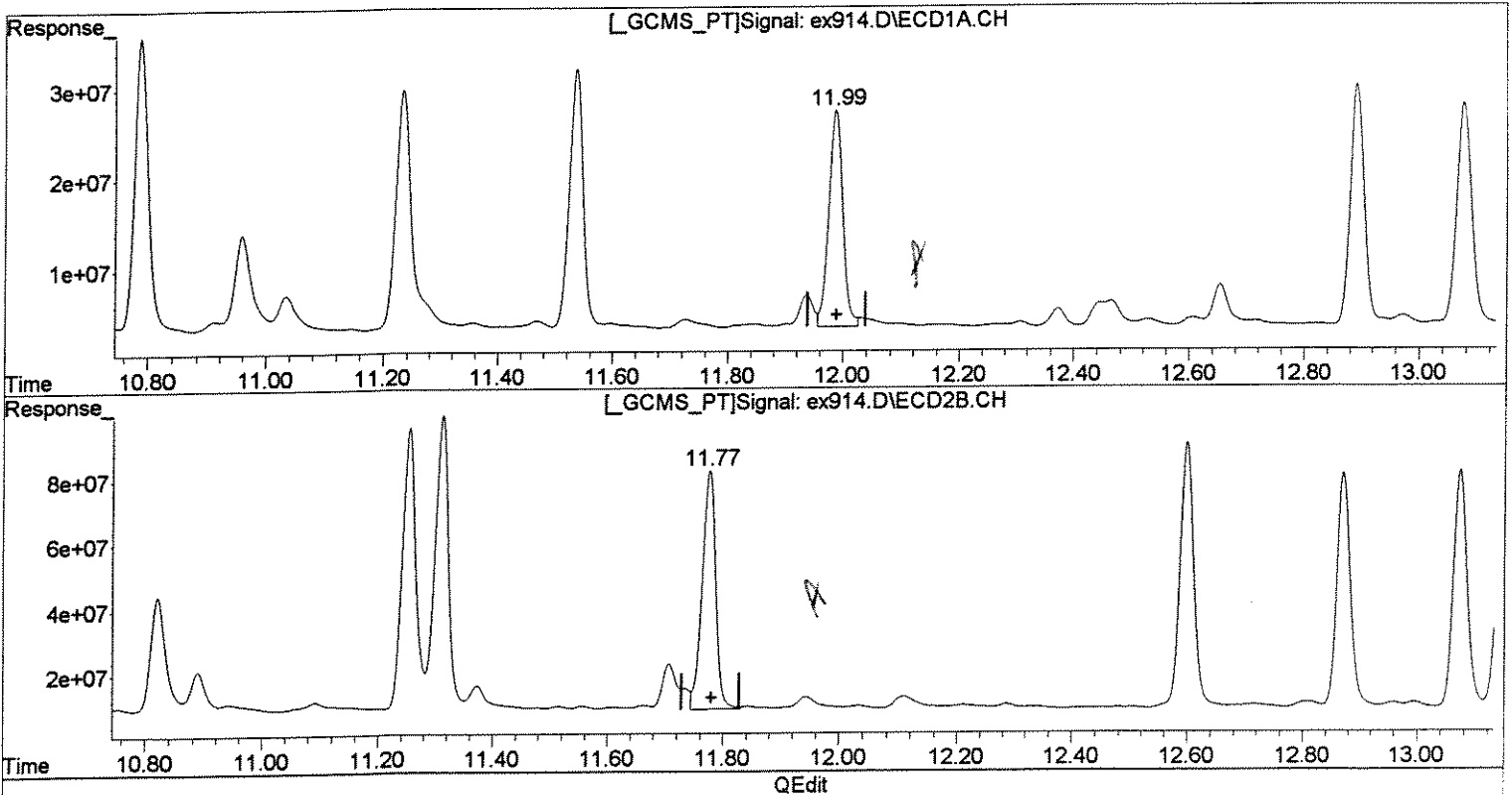
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Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
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ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(6) Aldrin (tcm)
11.99min 16.143ug/l m
response 397329235

(6) Aldrin #2 (tcm)
11.77min 15.893ug/l m
response 1191097666

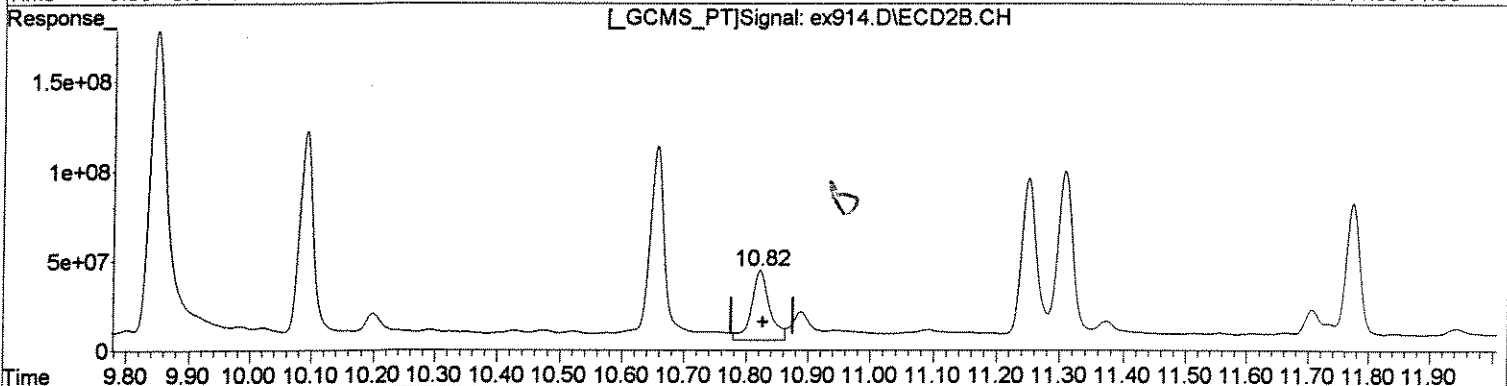
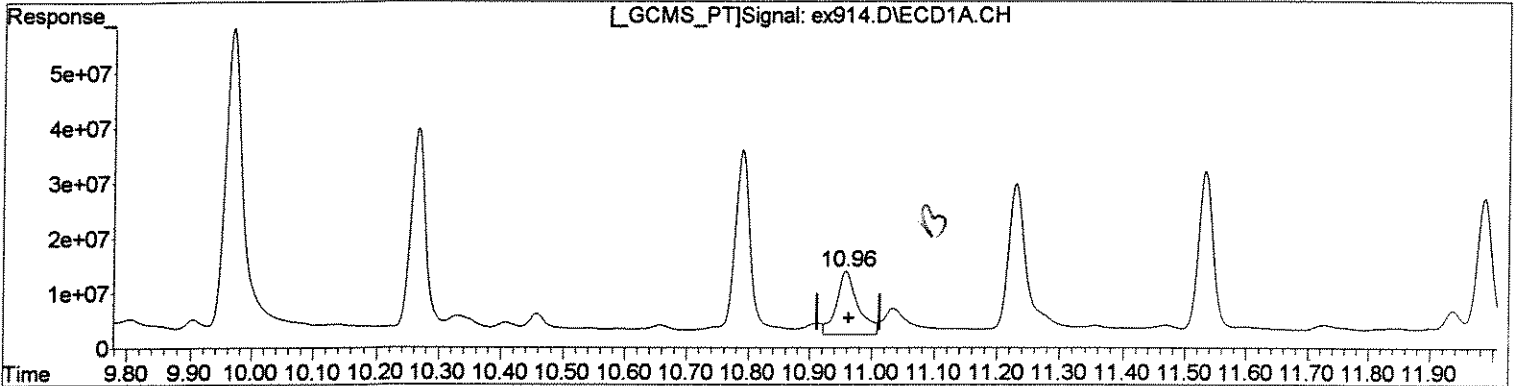
Handwritten signatures and initials

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(7) beta-BHC (tc)
10.96min 23.879ug/l
response 275700069

(7) beta-BHC #2 (tc)
10.82min 22.590ug/l
response 805863634

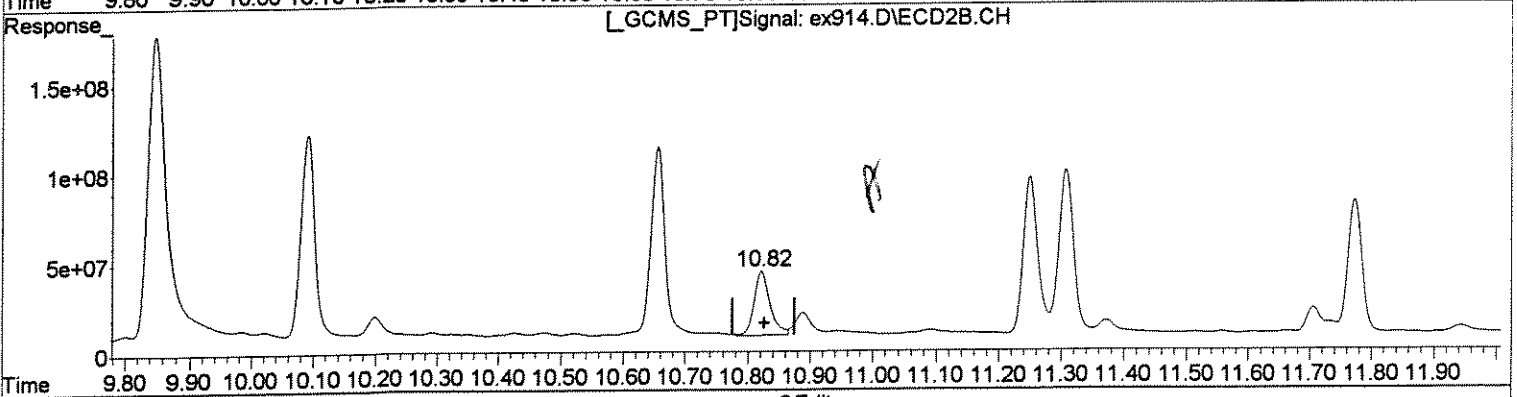
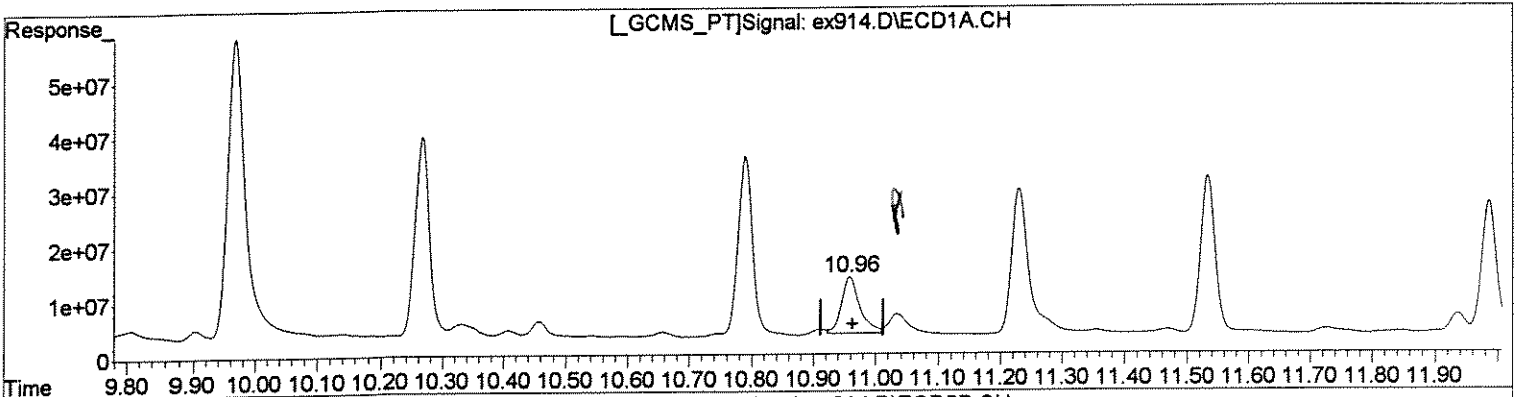
BHC

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(7) beta-BHC (tc)
10.96min 18.172ug/l m
response 209810025

(7) beta-BHC #2 (tc)
10.82min 17.687ug/l m
response 630945734

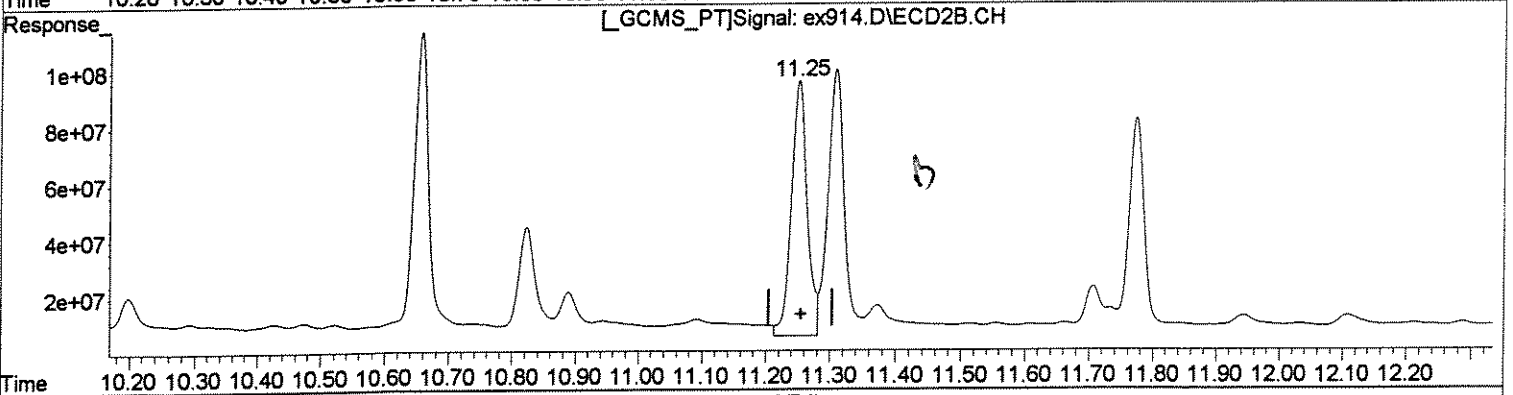
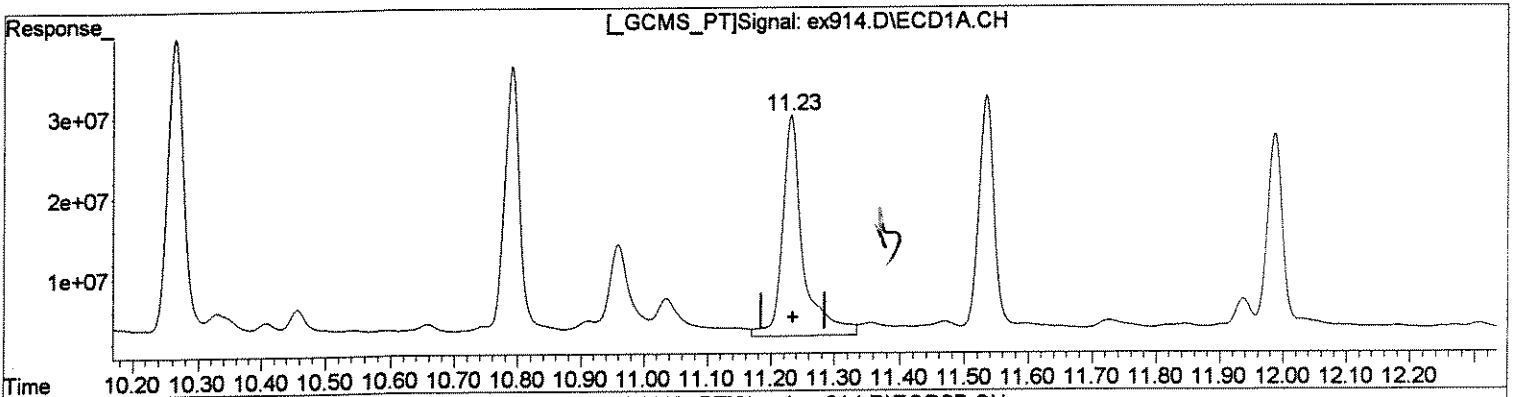
mp 7/1 *mv 7/1*

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(8) delta-BHC (tc)
11.23min 22.448ug/l
response 620832459

(8) delta-BHC #2 (tc)
11.25min 18.608ug/l
response 1546189794

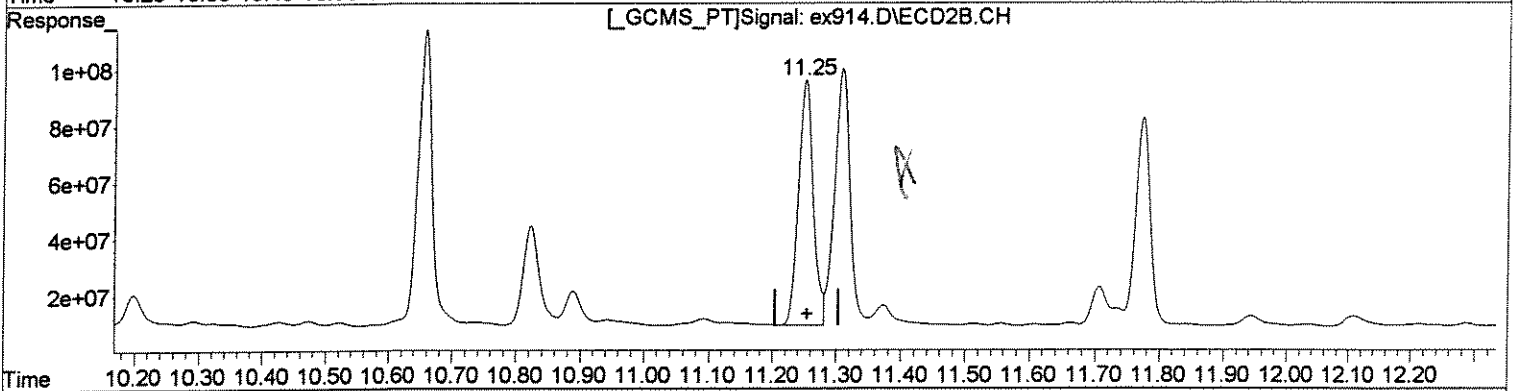
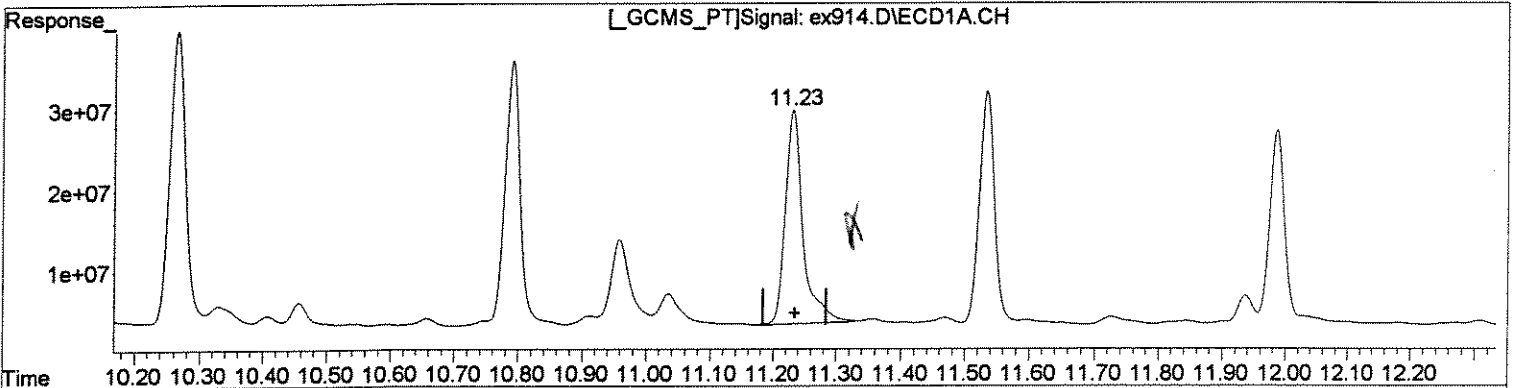
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(8) delta-BHC (tc)
11.23min 18.814ug/l m
response 520319976

(8) delta-BHC #2 (tc)
11.25min 16.934ug/l m
response 1407138814

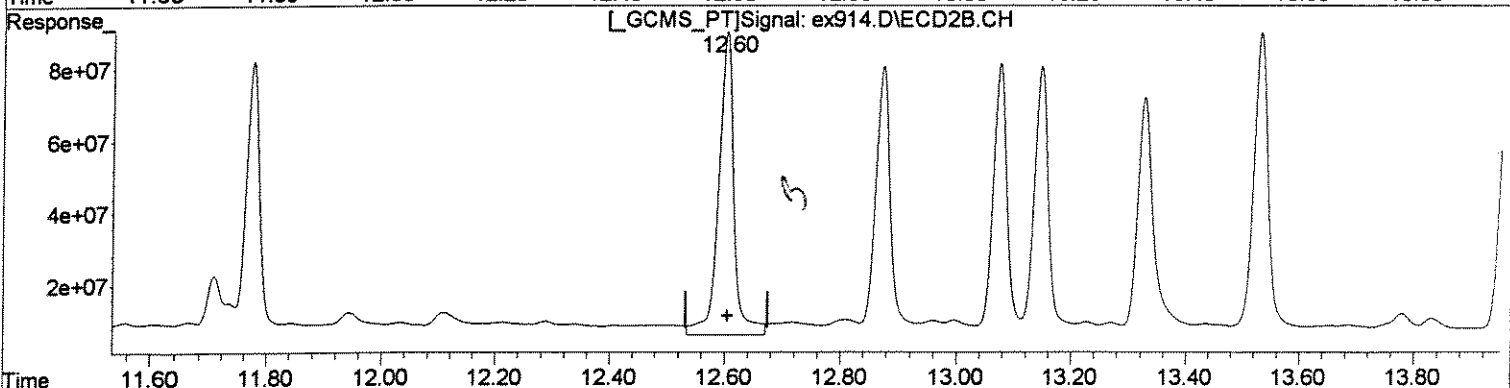
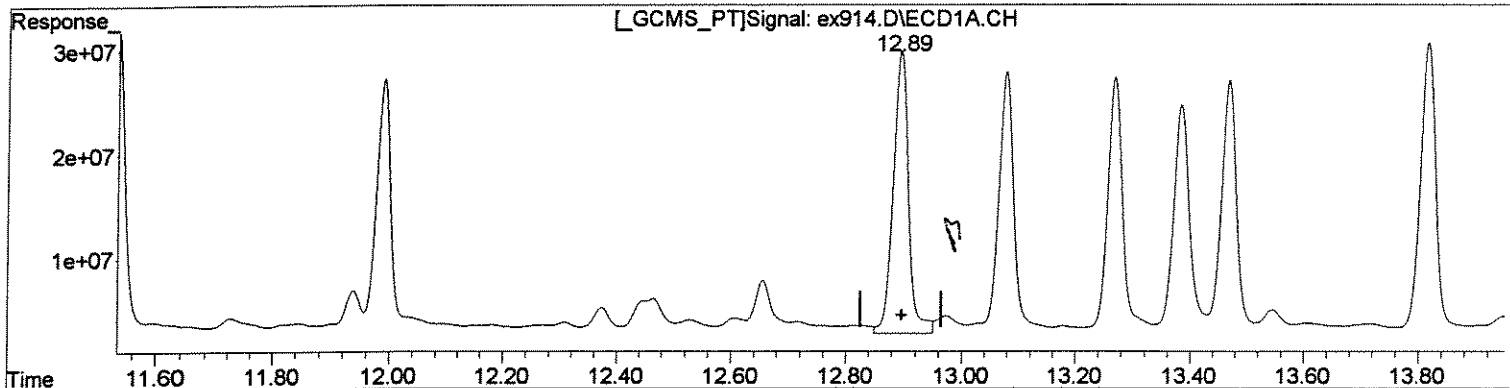
MW 7/1 *MW 7/1*

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
12.89min 21.584ug/l
response 497322785

(9) Heptachlor E #2 (tc)
12.60min 23.072ug/l
response 1550251143

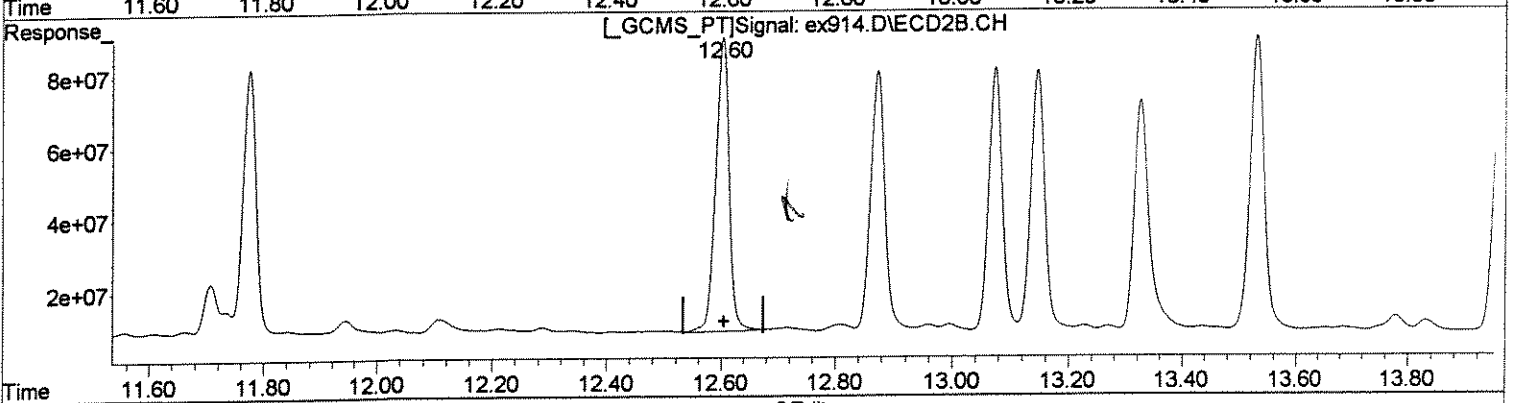
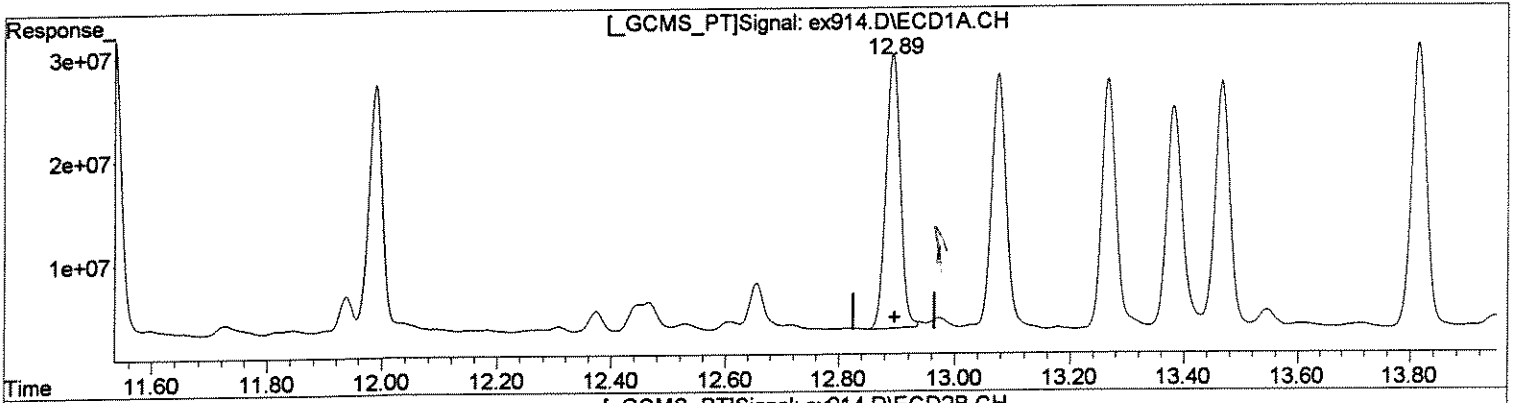
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
12.89min 19.501ug/l m
response 449325708

(9) Heptachlor E #2 (tc)
12.60min 20.063ug/l m
response 1348122038

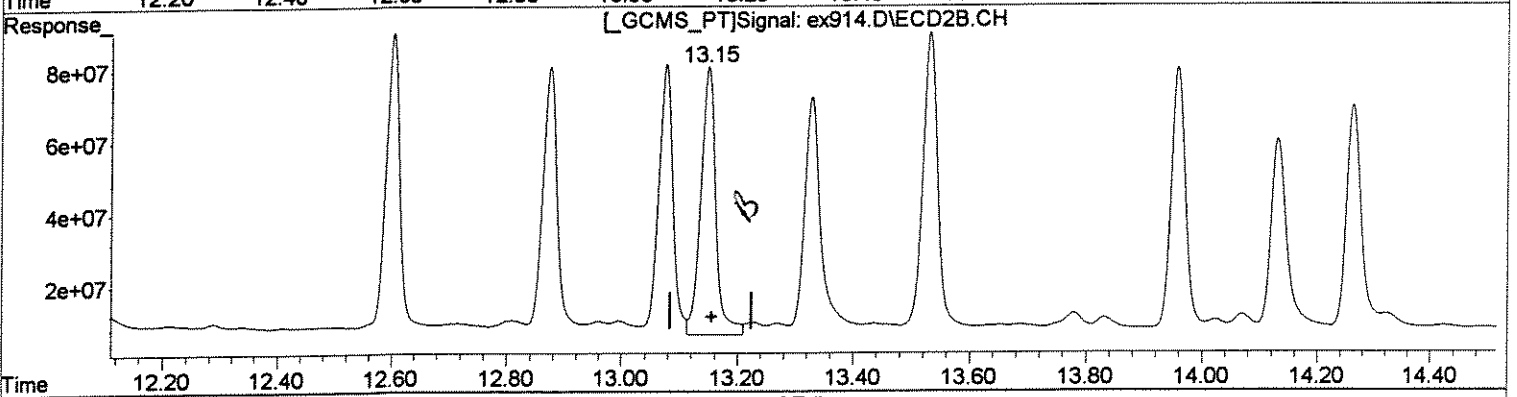
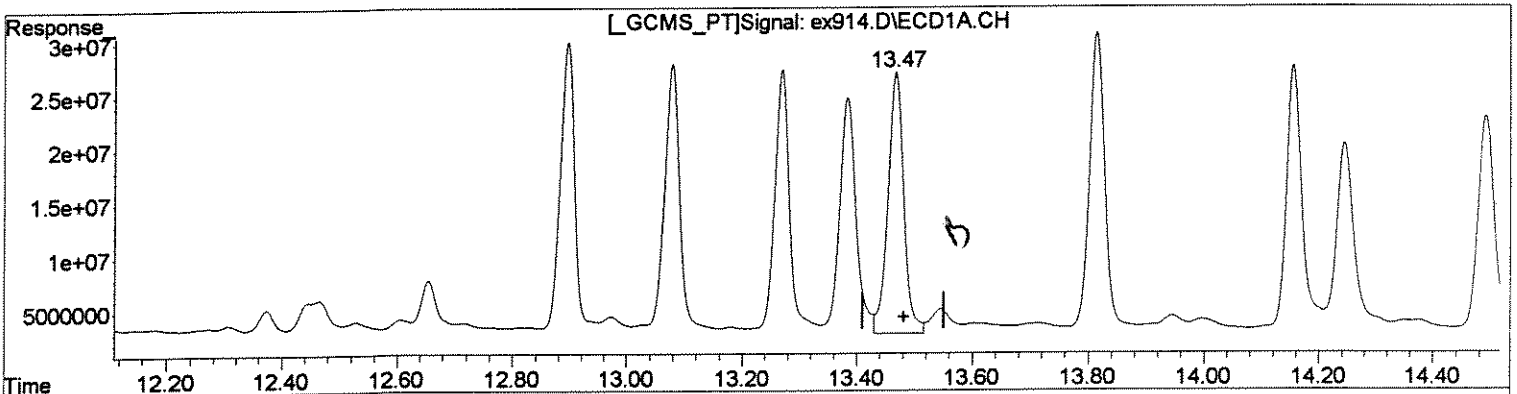
Handwritten notes:
7/1
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(10) alpha-Endosu (tc)
13.47min 22.318ug/l
response 459820349

bull

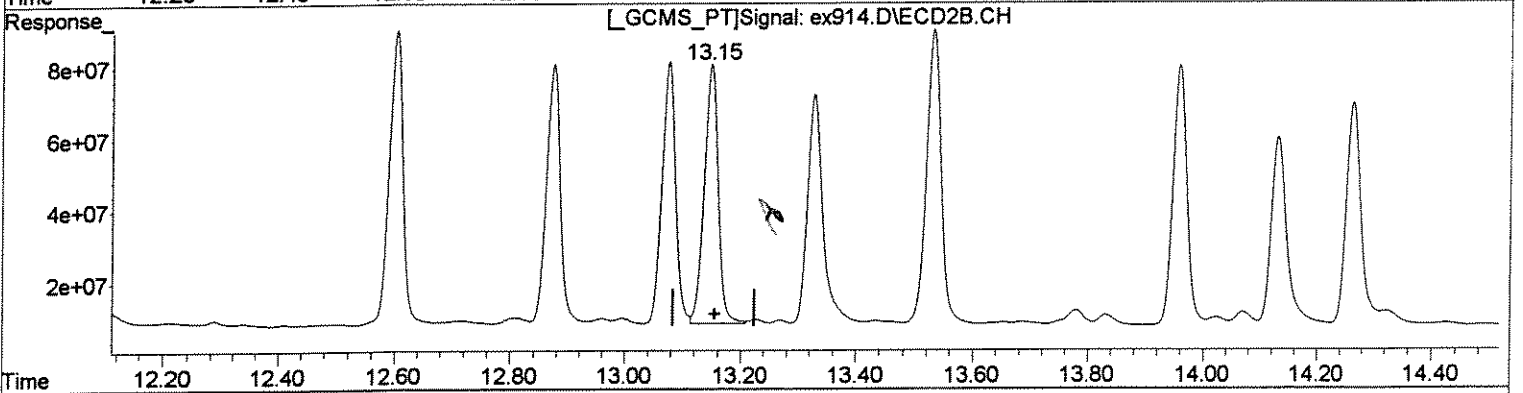
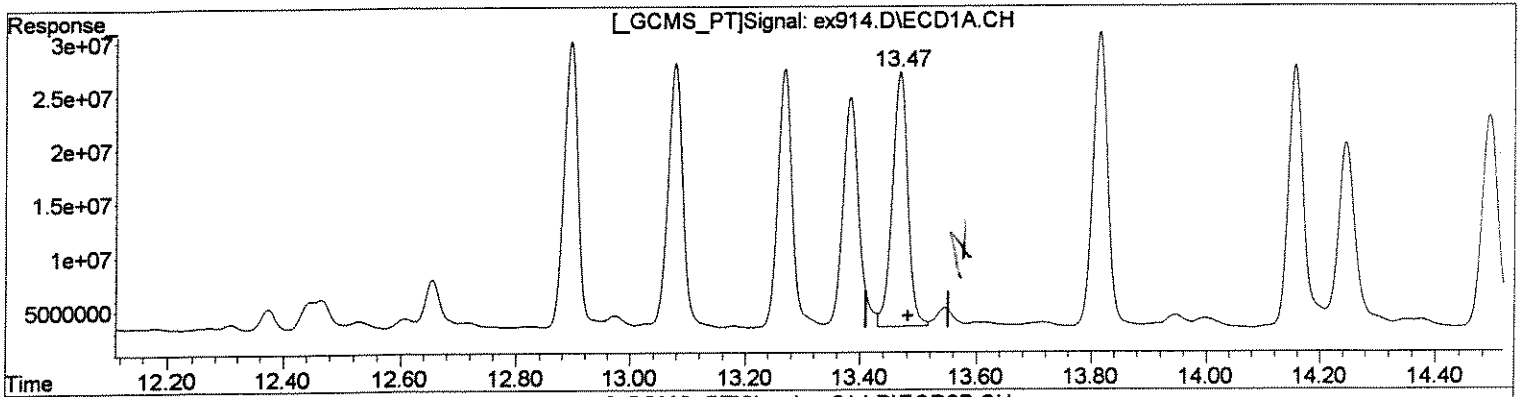
(10) alpha-Endosu #2 (tc)
13.15min 22.292ug/l
response 1328304150

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(10) alpha-Endosu (tc)
13.47min 20.908ug/l m
response 430786362

(10) alpha-Endosu #2 (tc)
13.15min 20.042ug/l m
response 1194194258

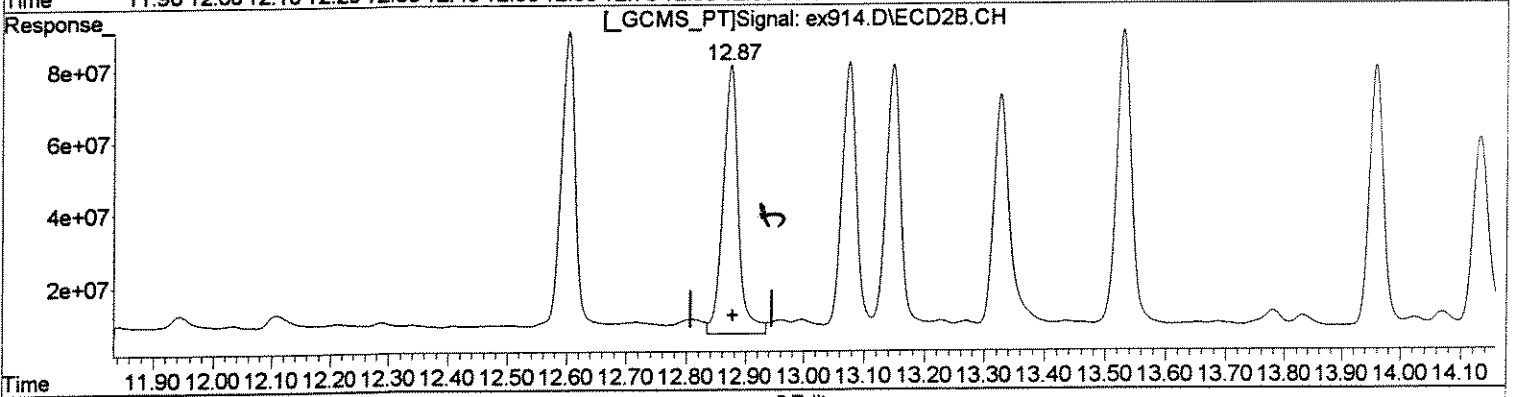
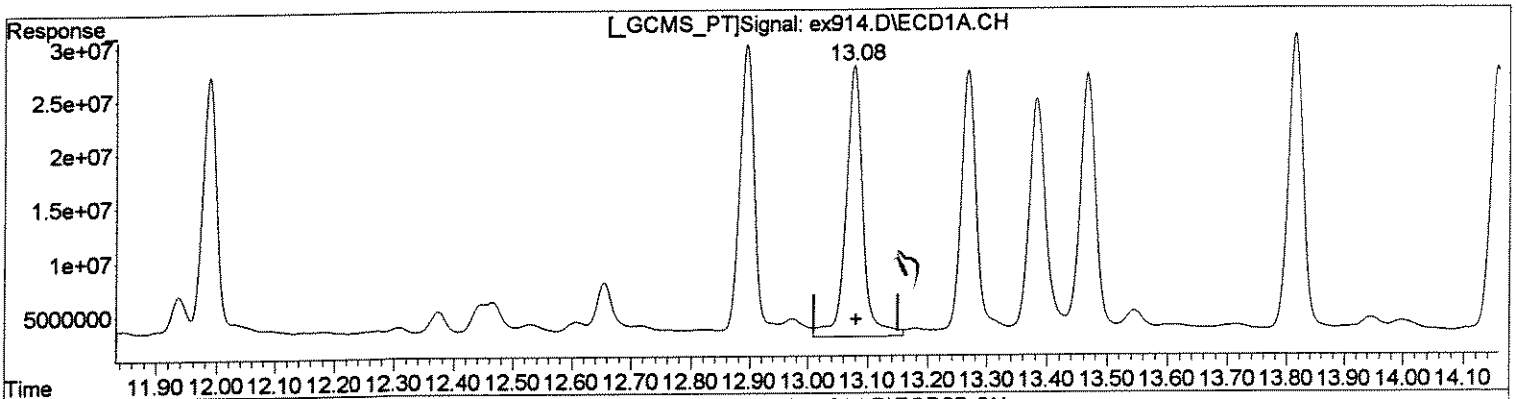
Handwritten signatures and initials.

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(11) gamma-Chlord (tc)
13.08min 21.638ug/l
response 493157897

hnp

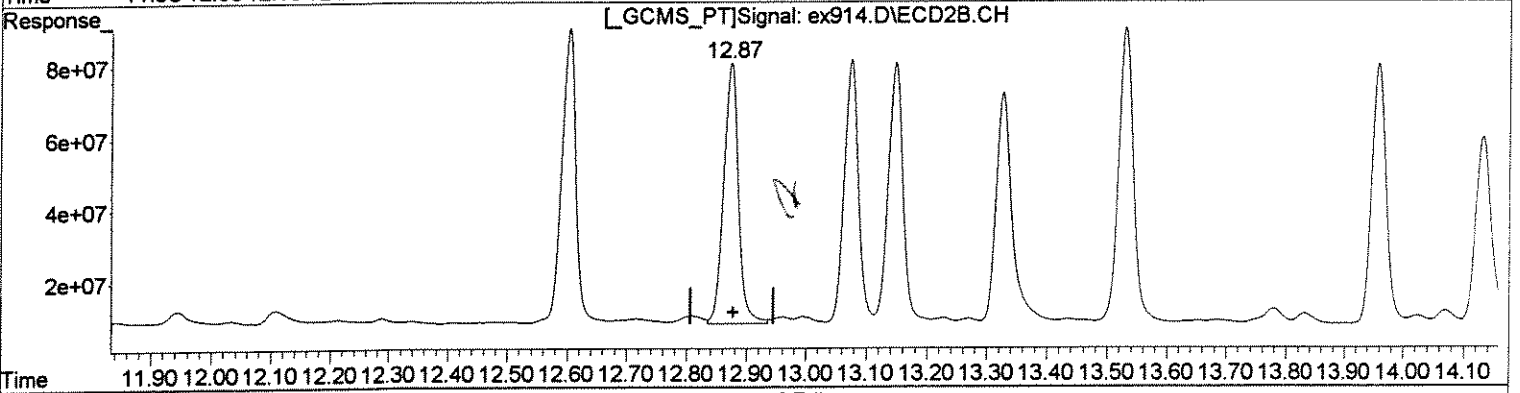
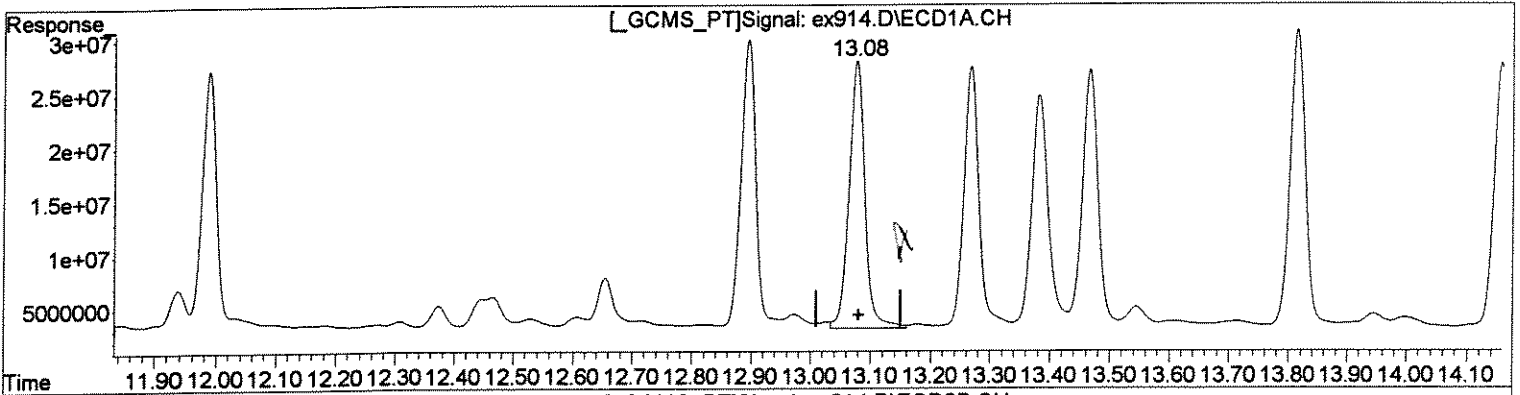
(11) gamma-Chlord #2 (tc)
12.87min 19.533ug/l
response 1361946222

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(11) gamma-Chlord (tc)
13.08min 19.966ug/l m
response 455048551

(11) gamma-Chlord #2 (tc)
12.87min 17.846ug/l m
response 1244299579

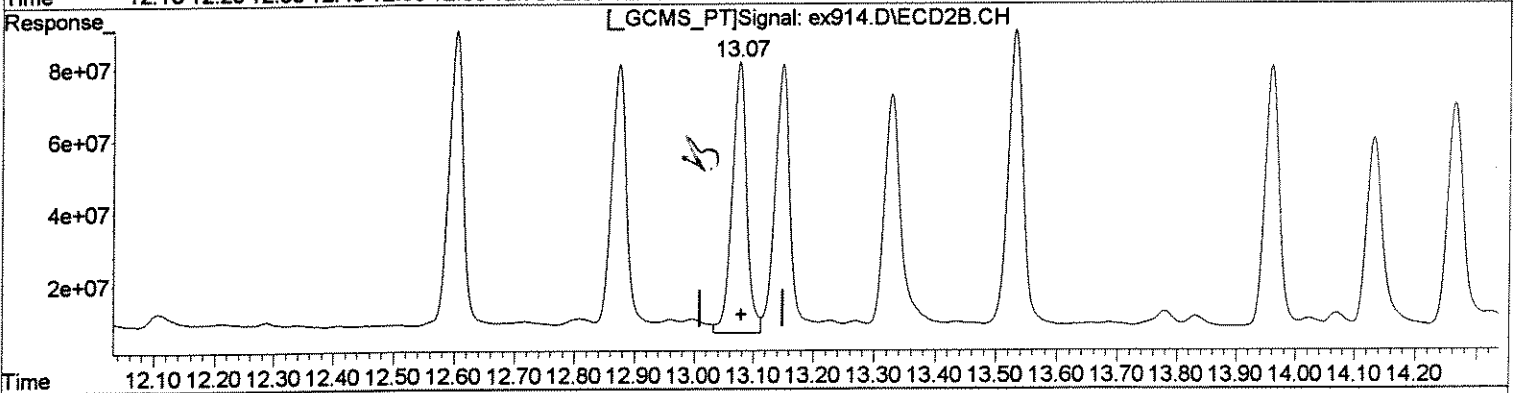
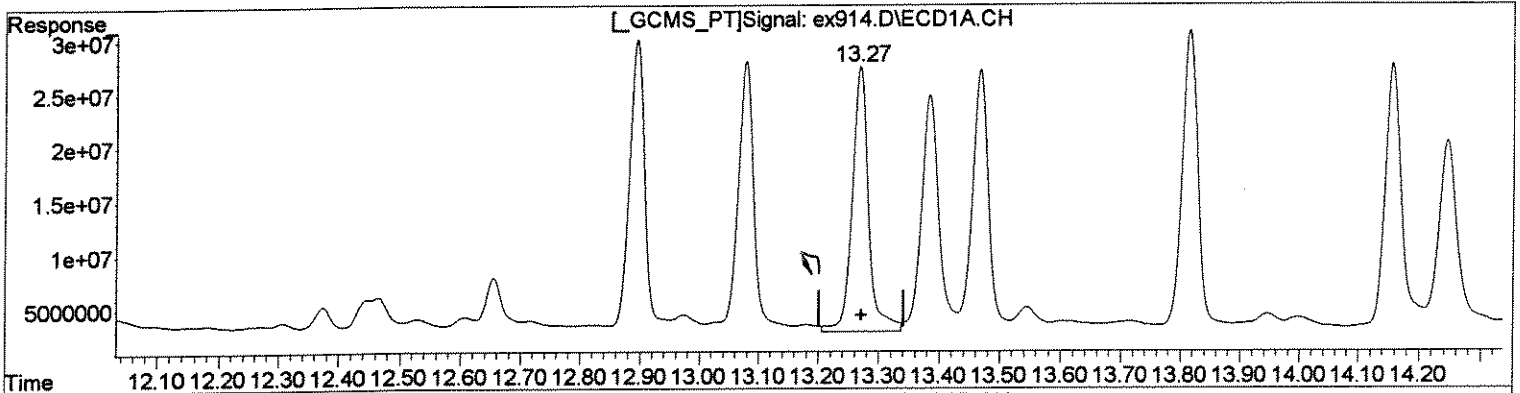
Handwritten notes:
WJF 7/1
mw 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(12) alpha-Chlord (tc)
13.27min 20.718ug/l
response 462972989

(12) alpha-Chlord #2 (tc)
13.07min 19.354ug/l
response 1285396186

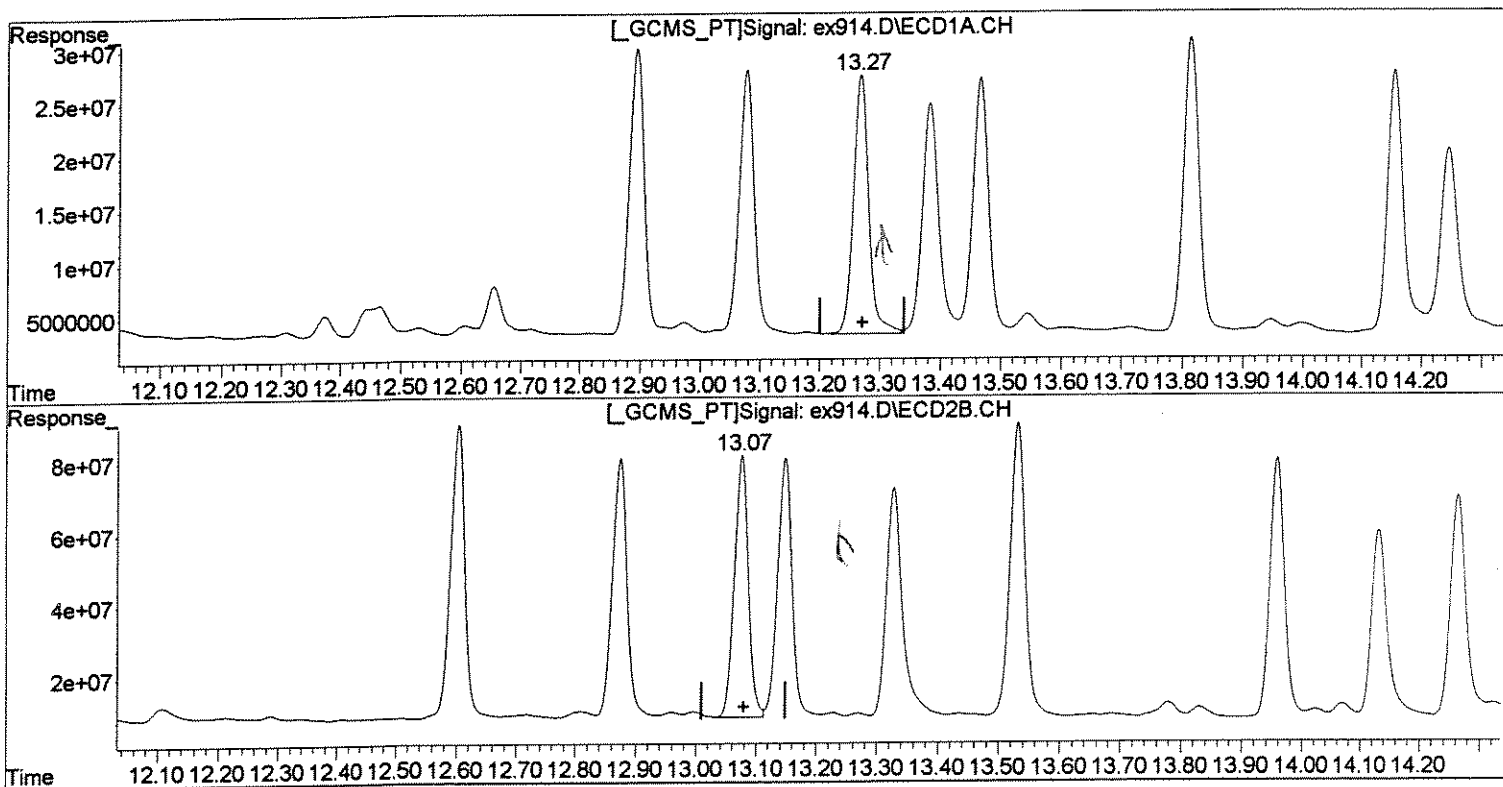
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(12) alpha-Chlord (tc)
13.27min 19.008ug/l m
response 424769585

(12) alpha-Chlord #2 (tc)
13.07min 17.722ug/l m
response 1177020738

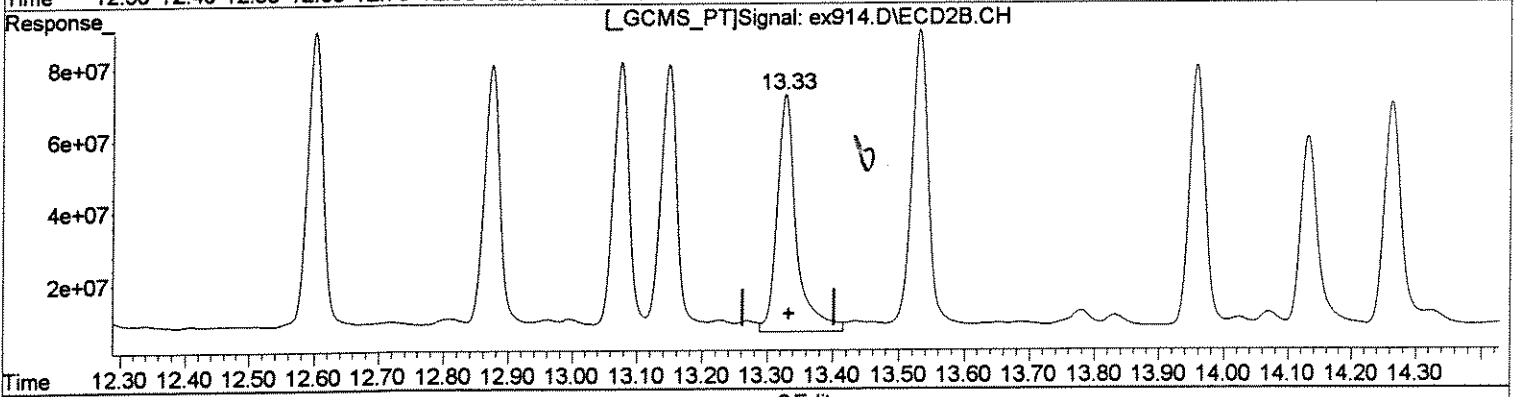
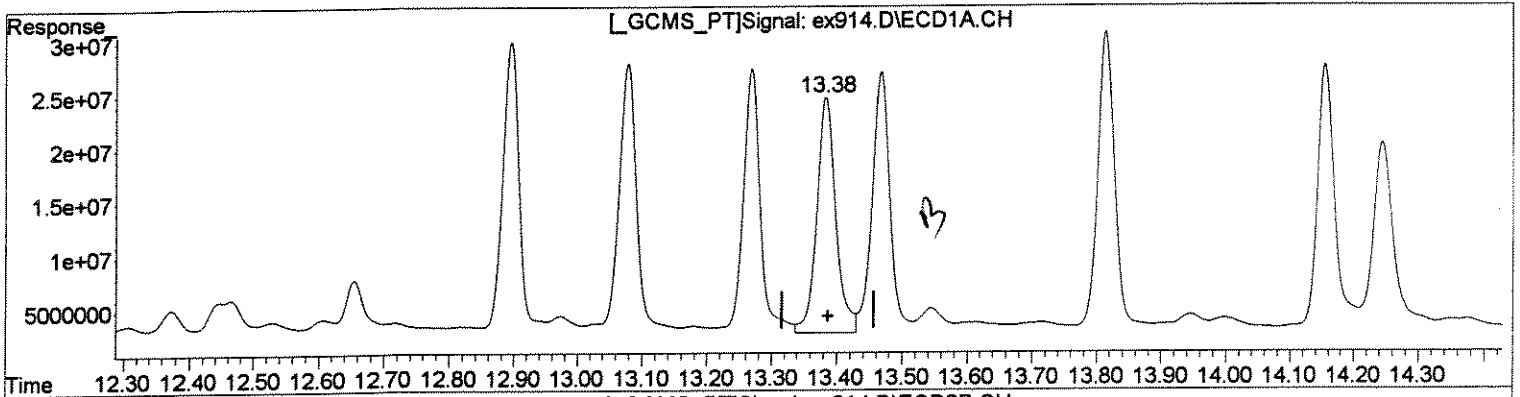
MW 71 *MW 71*

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(13) 4,4'-DDE (tc)
13.38min 19.509ug/l
response 438602736

(13) 4,4'-DDE #2 (tc)
13.33min 20.678ug/l
response 1347733639

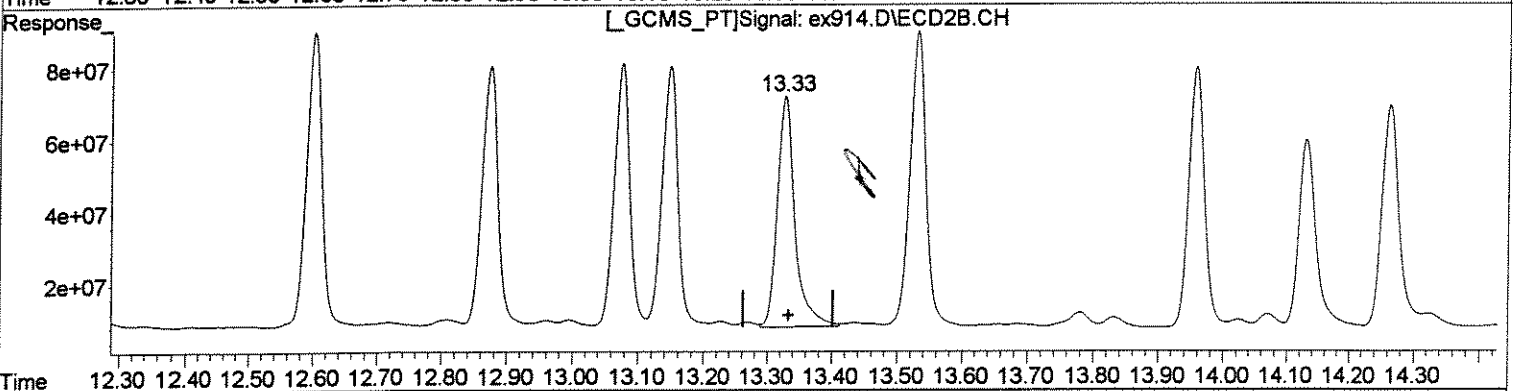
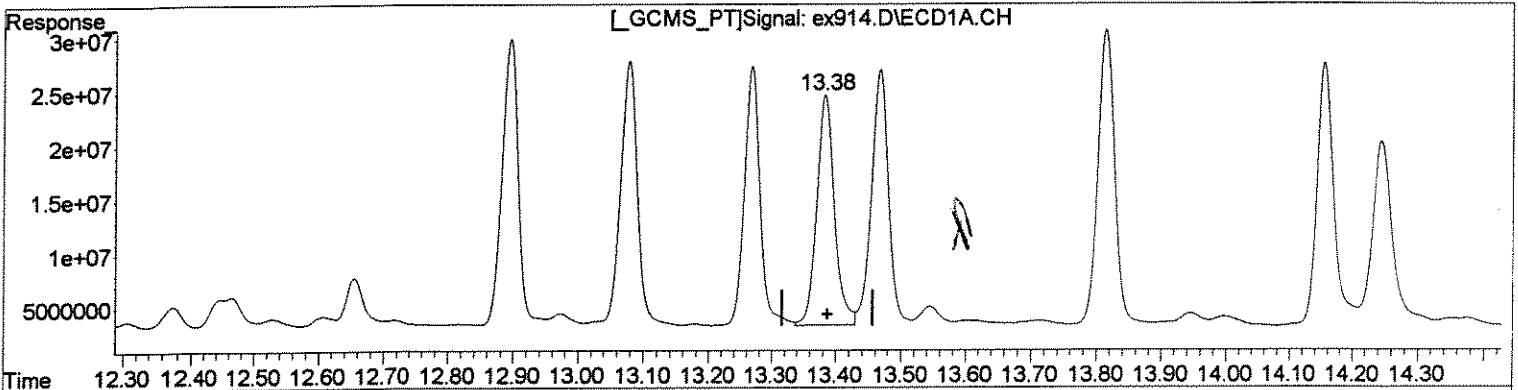
BWA

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(13) 4,4'-DDE (tc)
13.38min 18.276ug/l m
response 410886366

(13) 4,4'-DDE #2 (tc)
13.33min 18.617ug/l m
response 1213383828

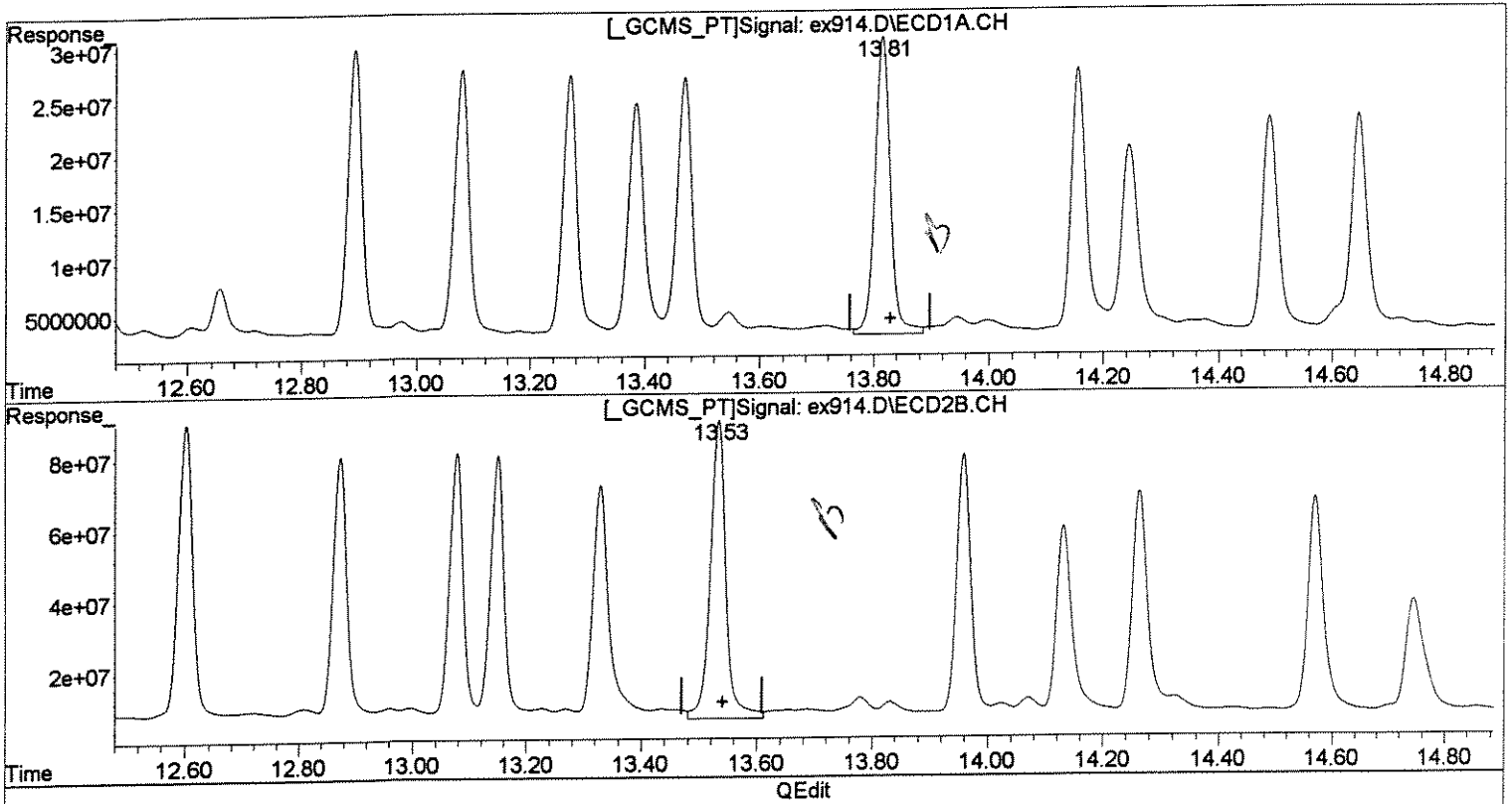
MP
7/1
2/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)
13.81min 22.533ug/l
response 524649689

(14) Dieldrin #2 (tcm)
13.53min 24.091ug/l
response 1572040713

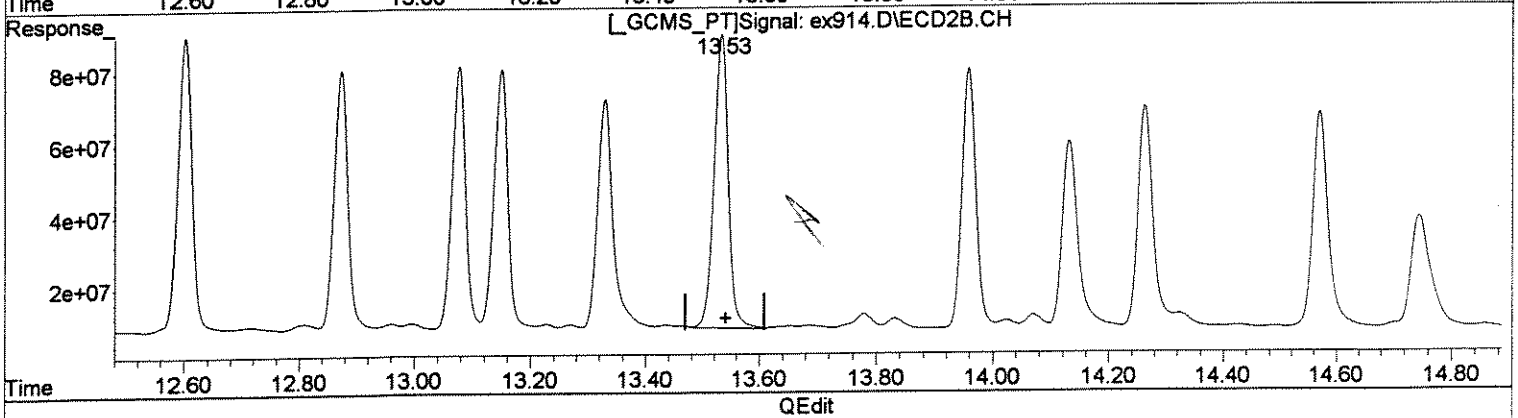
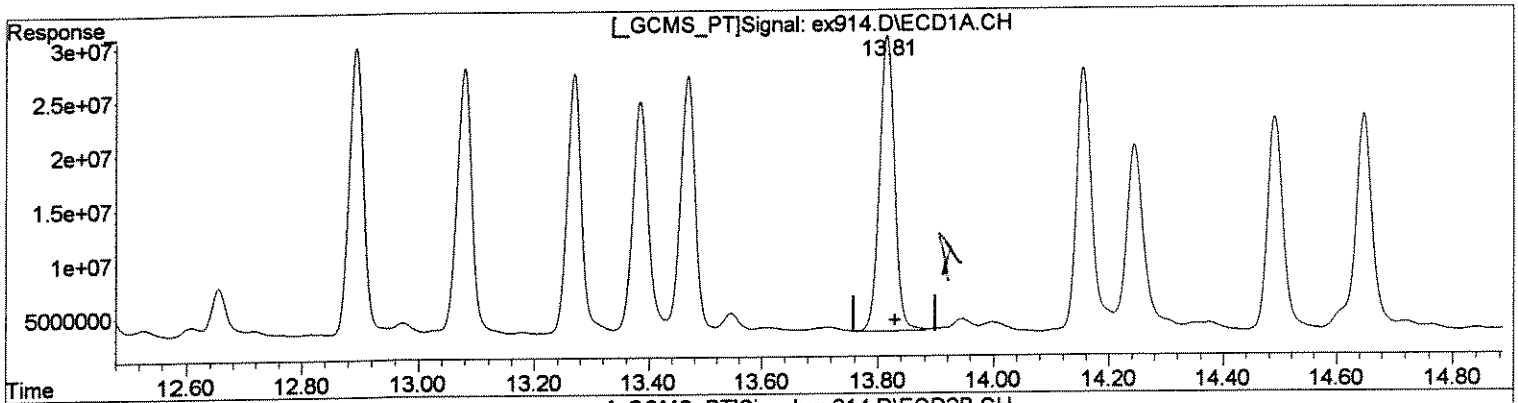
Bu...

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)
13.81min 21.143ug/l m
response 492288270

(14) Dieldrin #2 (tcm)
13.53min 21.892ug/l m
response 1428534591

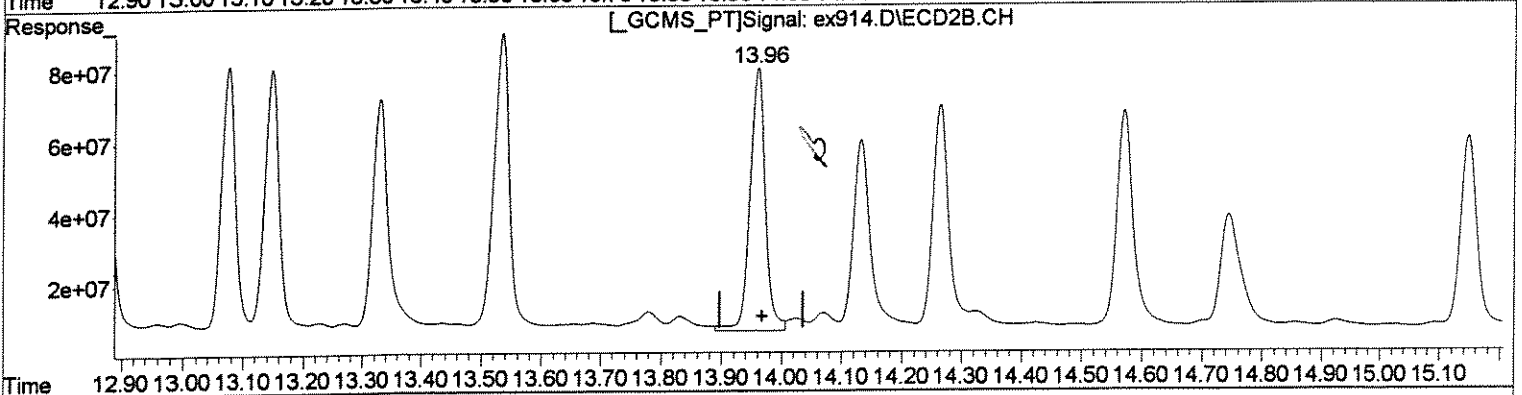
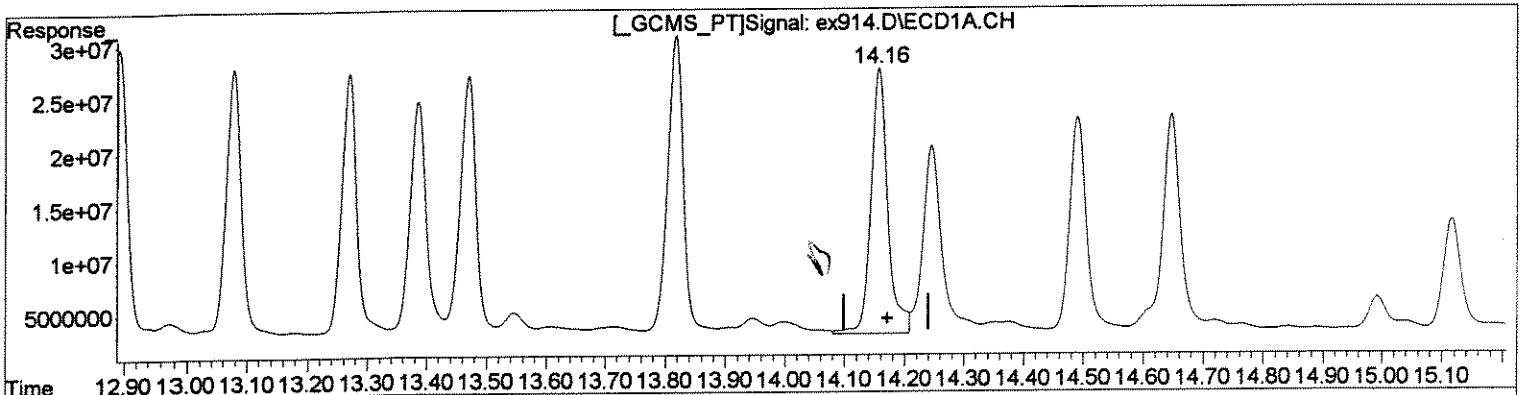
M.P.
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(15) Endrin (tcm)
14.16min 22.966ug/l
response 479062070

Handwritten signature

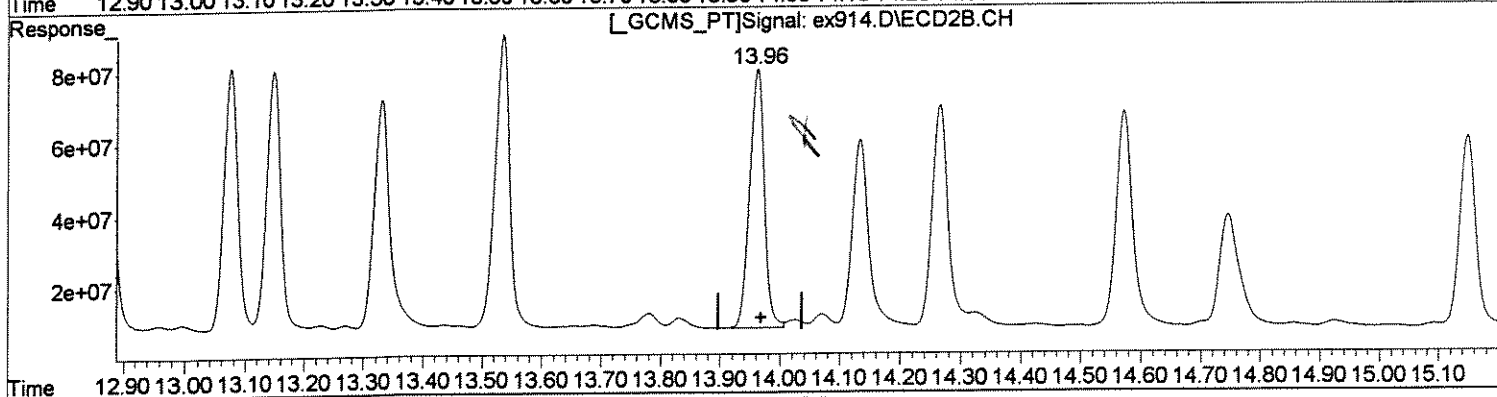
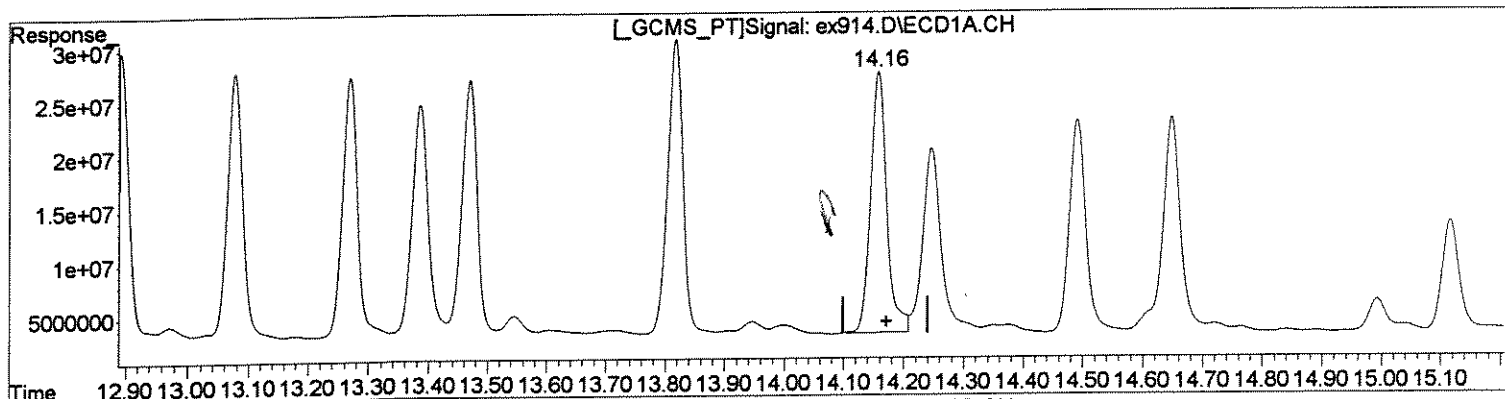
(15) Endrin #2 (tcm)
13.96min 23.072ug/l
response 1308661244

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(15) Endrin (tcm)
14.16min 21.661ug/l m
response 451834087

(15) Endrin #2 (tcm)
13.96min 21.533ug/l m
response 1221382732

MW 7/1
MW 7/1

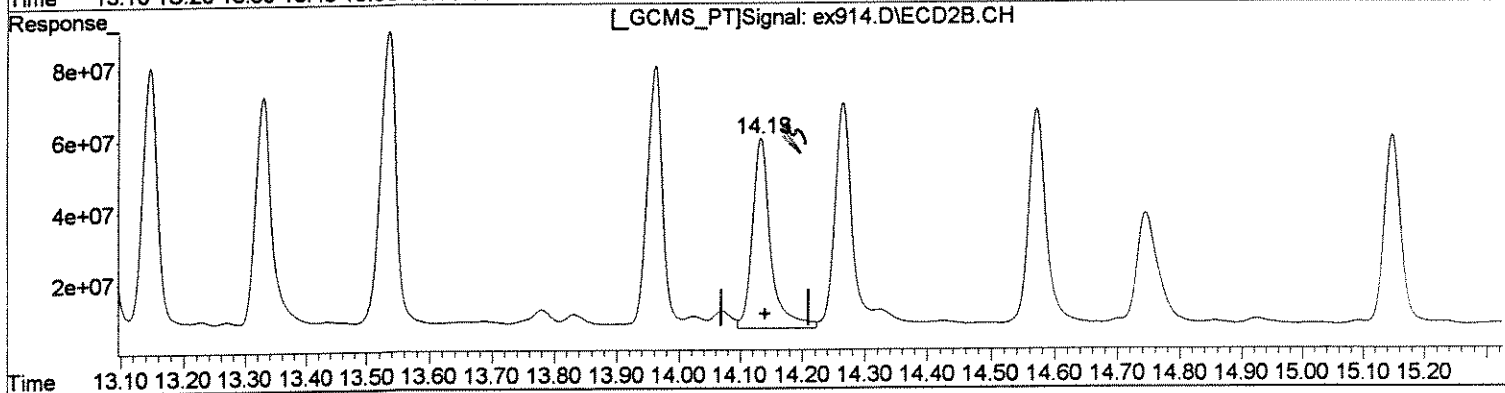
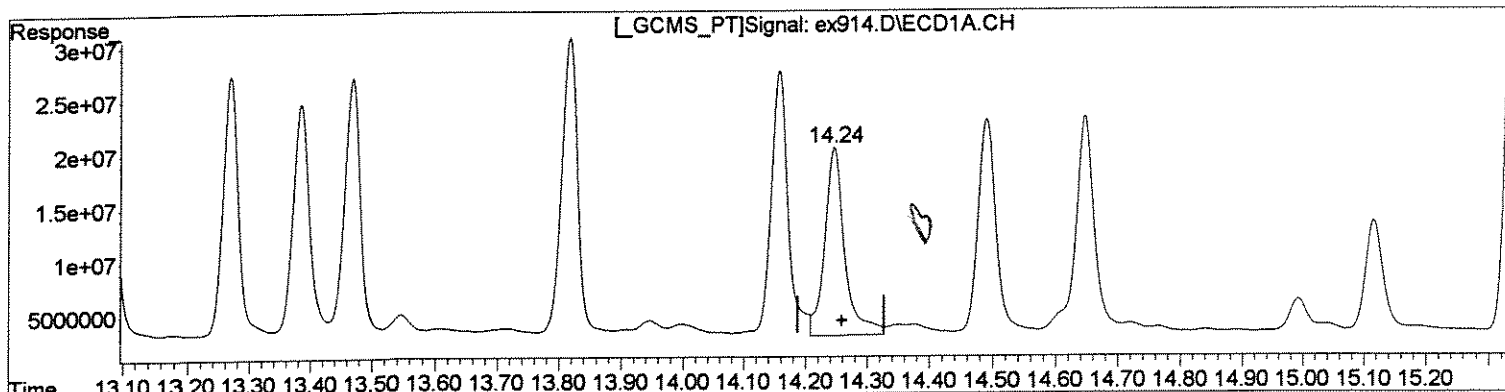
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) 4,4'-DDD (tc)
14.24min 21.050ug/l
response 395949909

(18) 4,4'-DDD #2 (tc)
14.13min 21.064ug/l
response 1087509530

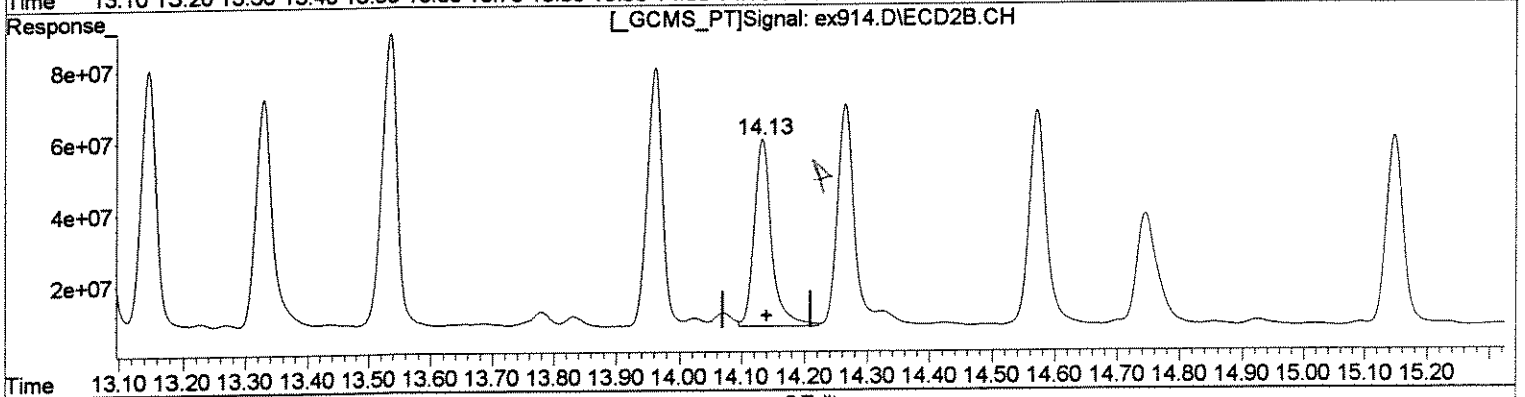
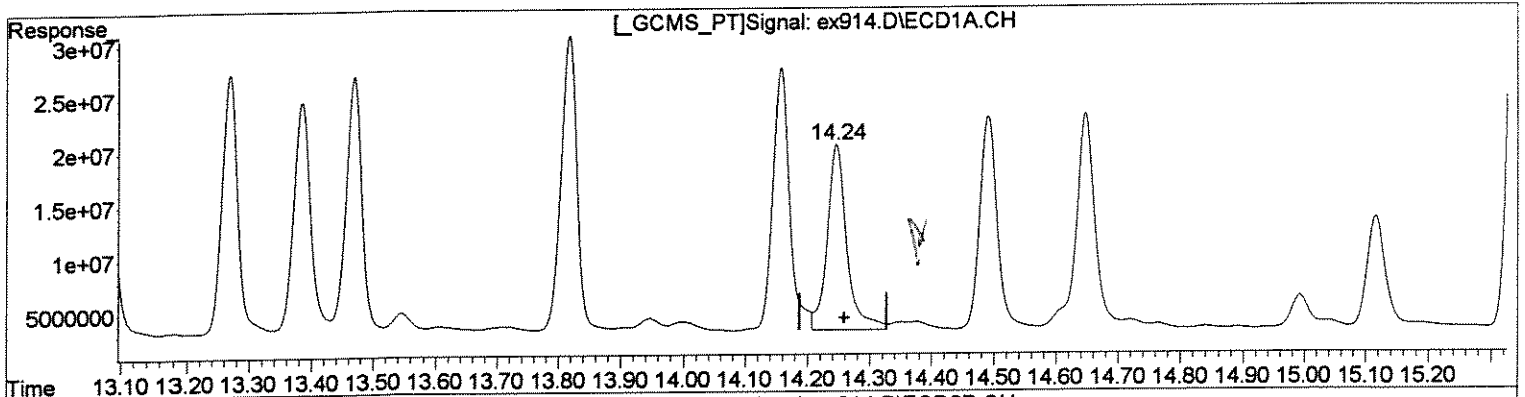
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)
14.24min 19.912ug/l m
response 374545624

(18) 4,4'-DDD #2 (tc)
14.13min 19.628ug/l m
response 1013351890

Handwritten notes:
14.24
14.13

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX914.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:40 pm
 Operator : M.PEDRO
 Sample : 1113457 1.0
 Misc : 06/27/08 200 ensr 8081 lcsd
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1826.1E6	5538.2E6	96.961	90.767
Spiked Amount	100.000	Range 30 - 150	Recovery =		96.96%	90.77%
25) S SURR2,Decachloro	17.39	17.46	1583.1E6	3863.2E6	92.688	88.503
Spiked Amount	100.000	Range 30 - 150	Recovery =		92.69%	88.50%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1299.0E6	3974.9E6	47.819	45.172
3) tc alpha-BHC	10.26	10.09	659.0E6	2046.0E6	21.943	22.127
4) tcm gamma-BHC (L	10.79	10.65	643.0E6	1979.7E6	23.390	24.096
5) tcm Heptachlor	11.53	11.31	523.1E6	1653.7E6	19.441	20.706
6) tcm Aldrin	11.99	11.77	506.3E6	1338.5E6	20.572	17.859
7) tc beta-BHC	10.96	10.82	275.7E6	805.9E6	23.879	22.590
8) tc delta-BHC	11.23	11.25	620.8E6	1546.2E6	22.448	18.608
9) tc Heptachlor E	12.89	12.60	497.3E6	1550.3E6	21.584	23.072
10) tc alpha-Endosu	13.47	13.15	459.8E6	1328.3E6	22.318	22.292
11) tc gamma-Chlord	13.08	12.87	493.2E6	1361.9E6	21.638	19.533
12) tc alpha-Chlord	13.27	13.07	463.0E6	1285.4E6	20.718	19.354
13) tc 4,4'-DDE	13.38	13.33	438.6E6	1347.7E6	19.509	20.678
14) tcm Dieldrin	13.81	13.53	524.6E6	1572.0E6	22.533	24.091
15) tcm Endrin	14.16	13.96	479.1E6	1308.7E6	22.966	23.072
16) tc KEPONE	14.24	0.00	395.9E6	0	63.267	N.D. #
17) tc beta-Endosul	14.49	14.26	403.7E6	1193.4E6	20.534	21.759
18) tc 4,4'-DDD	14.24	14.13	395.9E6	1087.5E6	21.050	21.064
19) tcm 4,4'-DDT	14.65	14.57	438.6E6	1231.5E6	21.894	22.472
20) tc Endrin Aldeh	15.12	14.75	216.5E6	806.6E6	14.652	20.049 #
21) tc Endosulfan S	15.76	15.15	361.3E6	1003.6E6	19.918	20.220
22) tc Methoxychlor	15.34	15.55	1145.4E6	2877.9E6	116.055	119.338
23) tc FAMPHUR	0.00	15.32	0	17622859	N.D.	0.554 #
24) tc Endrin Keton	16.16	15.91	433.1E6	1126.1E6	20.742	20.801
26) L8C Toxaphene	0.00	14.42	0	60918050	N.D.	37.180 #
29) L8C Toxaphene{4}	16.16	16.08	433.1E6	8278816	487.298	5.090 #
30) L8C Toxaphene{5}	16.34	0.00	22101472	0	32.735	N.D. #

original

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX914.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:40 pm
 Operator : M.PEDRO
 Sample : 1113457 1.0
 Misc : 06/27/08 200 ensr 8081 lcsd
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

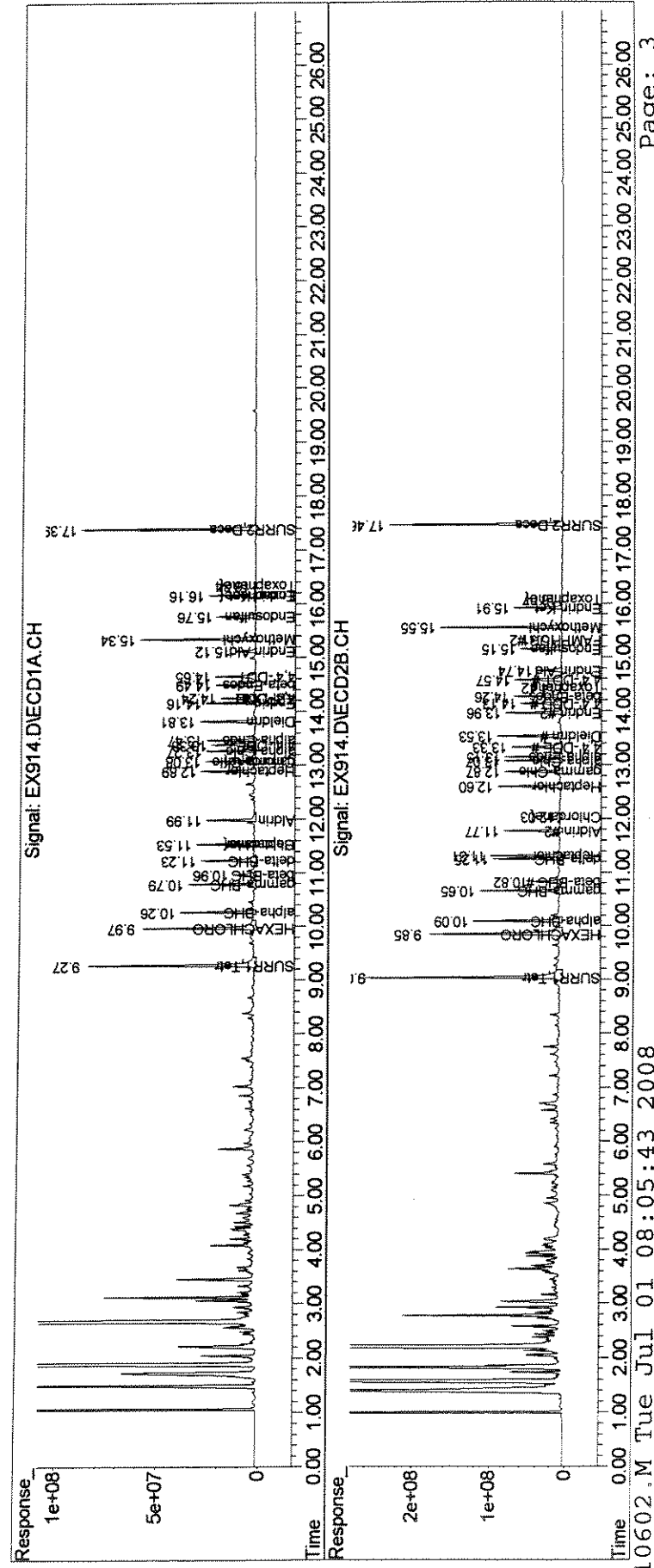
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum Toxaphene			455.2E6	69196866	520.033	42.270
Average Toxaphene					260.017	21.135
32) L9C Chlordane {2}	11.53	0.00	523.1E6	0	480.984	N.D. #
33) L9C Chlordane {3}	0.00	12.03	0	125.0E6	N.D.	45.037 #
34) L9C Chlordane {4}	13.08	0.00	493.2E6	0	180.191	N.D. #
Sum Chlordane			1016.3E6	125.0E6	661.175	45.037
Average Chlordane					330.587	45.037

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\063008\
Data File : EX914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



61702

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 09/02/08

Project Reference:

Client Sample ID : BLANK SPIKE

Date Sampled : Order #: 1117895 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 164027

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/01/08			
DATE ANALYZED : 07/16/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.074	UG/L
ALPHA-BHC	0.050	0.097	UG/L
BETA-BHC	0.050	0.089	UG/L
GAMMA-BHC	0.050	0.086	UG/L
DELTA-BHC	0.050	0.094	UG/L
ALPHA-CHLORDANE	0.050	0.098	UG/L
GAMMA-CHLORDANE	0.050	0.10	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.10	UG/L
4,4'-DDT	0.050	0.10	UG/L
DIELDRIN	0.10	0.11	UG/L
ALPHA-ENDOSULFAN	0.050	0.10	UG/L
BETA-ENDOSULFAN	0.10	0.10	UG/L
ENDOSULFAN SULFATE	0.10	0.097 J	UG/L
ENDRIN	0.050	0.099	UG/L
ENDRIN ALDEHYDE	0.10	0.084 J	UG/L
ENDRIN KETONE	0.10	0.10	UG/L
HEPTACHLOR	0.050	0.082	UG/L
HEPTACHLOR EPOXIDE	0.050	0.10	UG/L
HEXACHLOROBENZENE	0.050	0.20	UG/L
METHOXYCHLOR	0.50	0.59	UG/L
4,4'-TDE (DDD)	0.050	0.096	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>
DECACHLOROBIPHENYL (DCB)
TETRACHLORO-META-XYLENE

<u>QC LIMITS</u>
(40 - 140 %)
(40 - 140 %)

87	%
83	%

01703

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : eyl35.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 5:01 pm
 Operator : M.PEDRO
 Sample : 1117895 1.0
 Misc : 07/01/08 200 ensr 8081 lcs
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:42:15 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	1678.2E6	6176.6E6	83.159	76.329
Spiked Amount	100.000	Range 30 - 150	Recovery =		83.16%	76.33%
25) S SURR2,Decachloro	17.61	17.85	1418.6E6	4785.5E6	81.226	86.890
Spiked Amount	100.000	Range 30 - 150	Recovery =		81.23%	86.89%
Target Compounds						
2) TC HEXACHLORO BENZEN	10.13	10.14	1165.7E6	4708.6E6	39.670	38.743
3) tc alpha-BHC	10.43	10.39	598.8E6	2260.5E6	19.370	19.048
4) tcm gamma-BHC (L	10.96	10.96	461.1E6	1805.1E6	16.346m	17.179m
5) tcm Heptachlor	11.72	11.63	434.0E6	1656.4E6	15.532m	16.504m
6) tcm Aldrin	12.17	12.11	349.0E6	1347.8E6	14.095m	14.796m
7) tc beta-BHC	11.12	11.12	204.9E6	764.7E6	17.841m	16.943m
8) tc delta-BHC	11.39	11.56	511.7E6	1912.6E6	18.815	18.526
9) tc Heptachlor E	13.09	12.95	401.0E6	1608.0E6	17.618m	20.001m
10) tc alpha-Endosu	13.67	13.51	392.7E6	1420.7E6	19.196	20.018
11) tc gamma-Chlord	13.27	13.22	426.3E6	1670.8E6	19.446	20.369
12) tc alpha-Chlord	13.47	13.43	420.7E6	1475.0E6	19.668	18.990
13) tc 4,4'-DDE	13.57	13.67	404.8E6	1602.6E6	18.585	20.907
14) tcm Dieldrin	14.02	13.90	445.0E6	1756.2E6	19.479	22.445
15) tcm Endrin	14.37	14.34	399.4E6	1332.4E6	19.277	19.781
17) tc beta-Endosul	14.71	14.65	343.8E6	1282.5E6	18.493	19.977m
18) tc 4,4'-DDD	14.45	14.49	330.6E6	1188.5E6	18.373	19.095m
19) tcm 4,4'-DDT	14.86	14.95	346.8E6	1309.1E6	18.123	19.985
20) tc Endrin Aldeh	15.34	15.15	222.5E6	822.1E6	15.156	16.760
21) tc Endosulfan S	15.98	15.56	307.9E6	1110.4E6	18.275	19.430
22) tc Methoxychlor	15.56	15.92	1007.2E6	3410.9E6	108.155	117.400
24) tc Endrin Keton	16.37	16.31	371.2E6	1258.0E6	19.172	20.053
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey135.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 5:01 pm
 Operator : M.PEDRO
 Sample : 1117895 1.0
 Misc : 07/01/08 200 ensr 8081 lcs
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:42:15 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

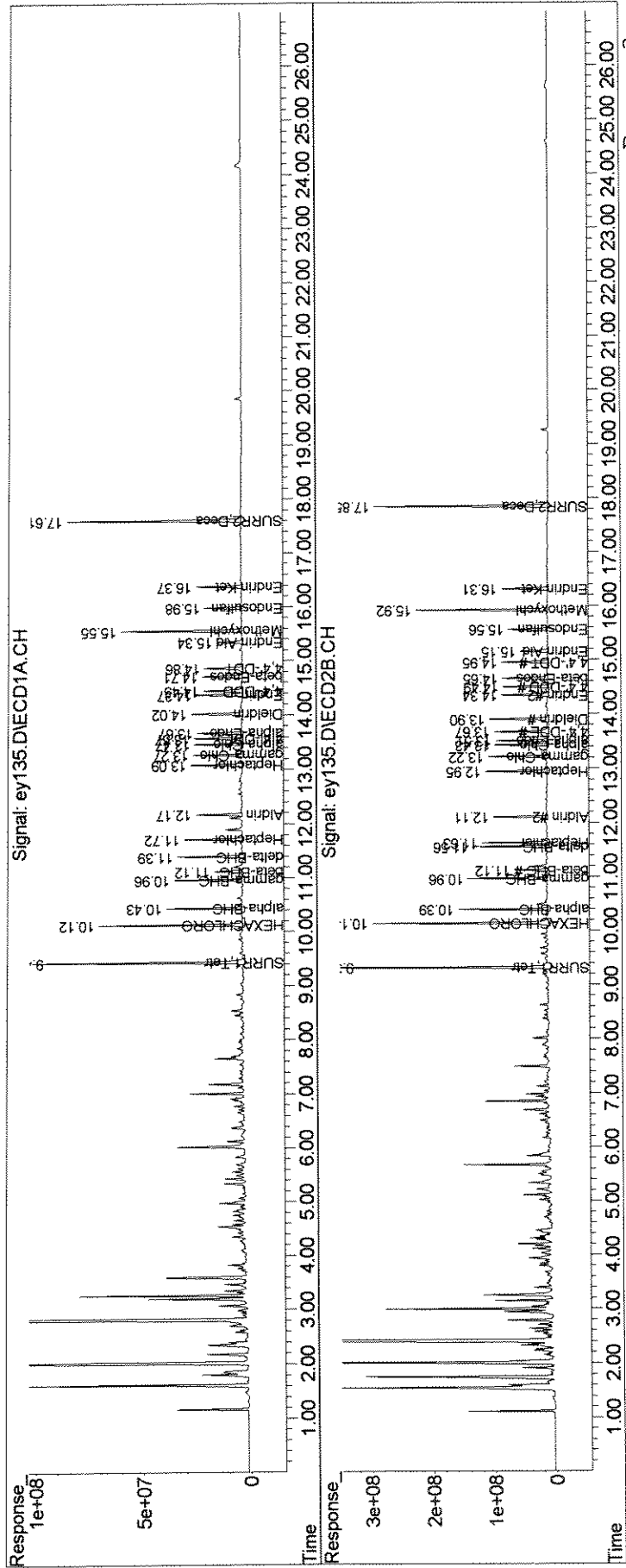
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey135.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 5:01 pm
 Operator : M.PEDRO
 Sample : 1117895 1.0
 Misc : 07/01/08 200 ensr 8081 lcs
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 Quant Time: Jul 17 07:42:15 2008
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Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



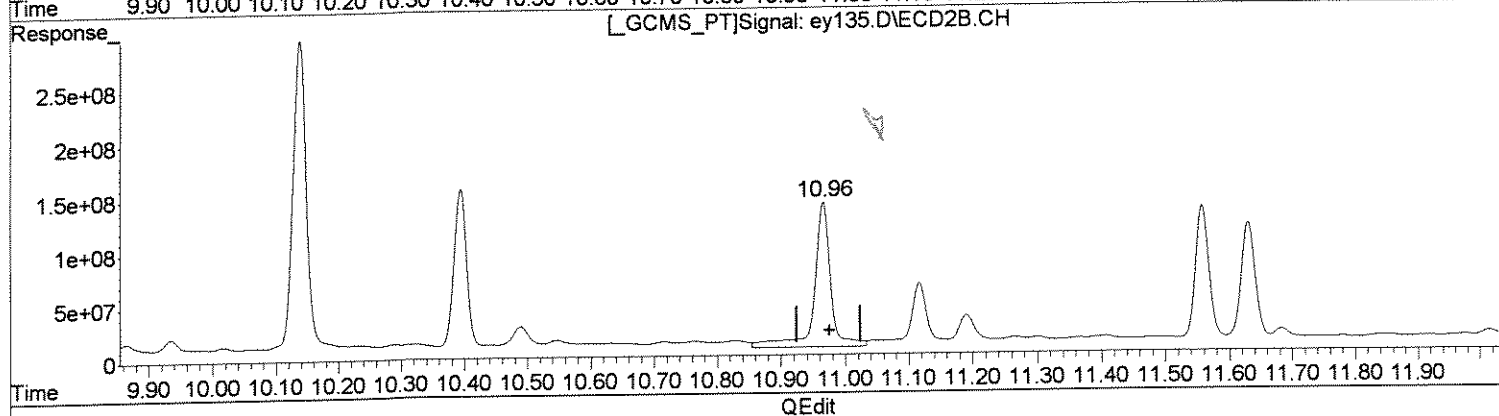
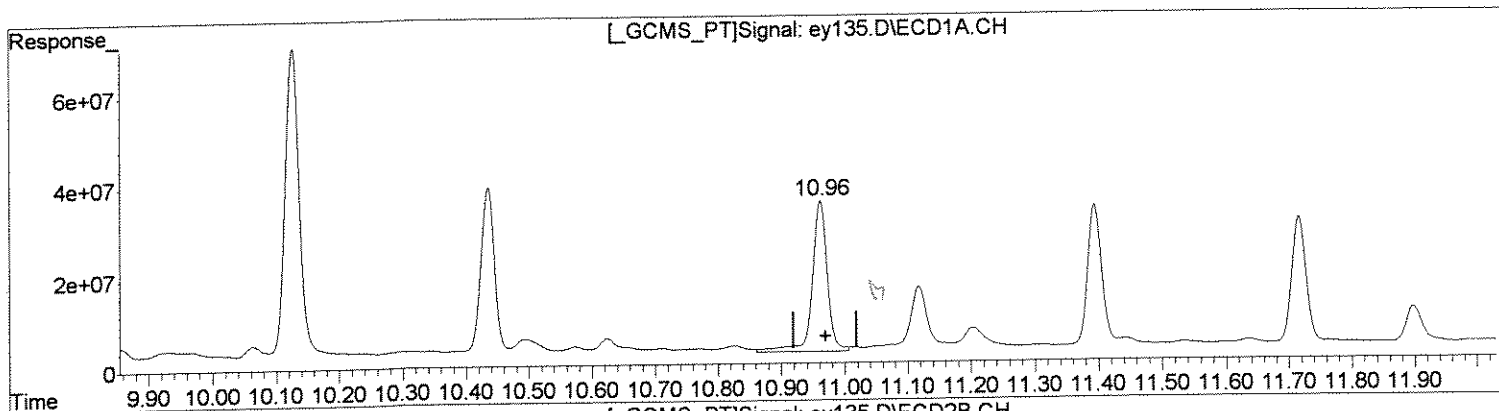
01706

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm))
10.96min 19.546ug/l
response 551320212

(4) gamma-BHC (L #2 (tcm))
10.97min 22.853ug/l
response 2401264353

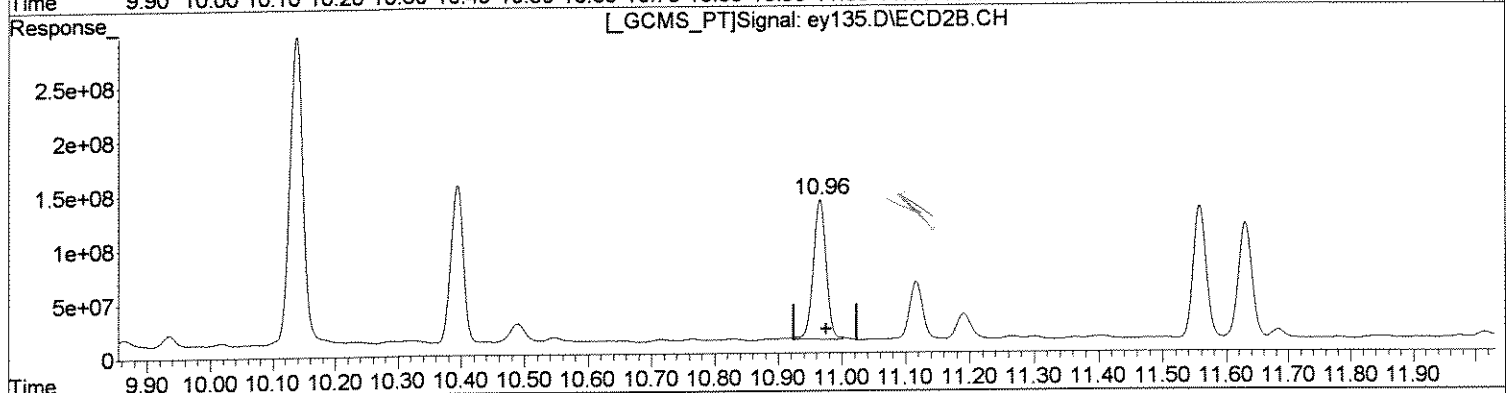
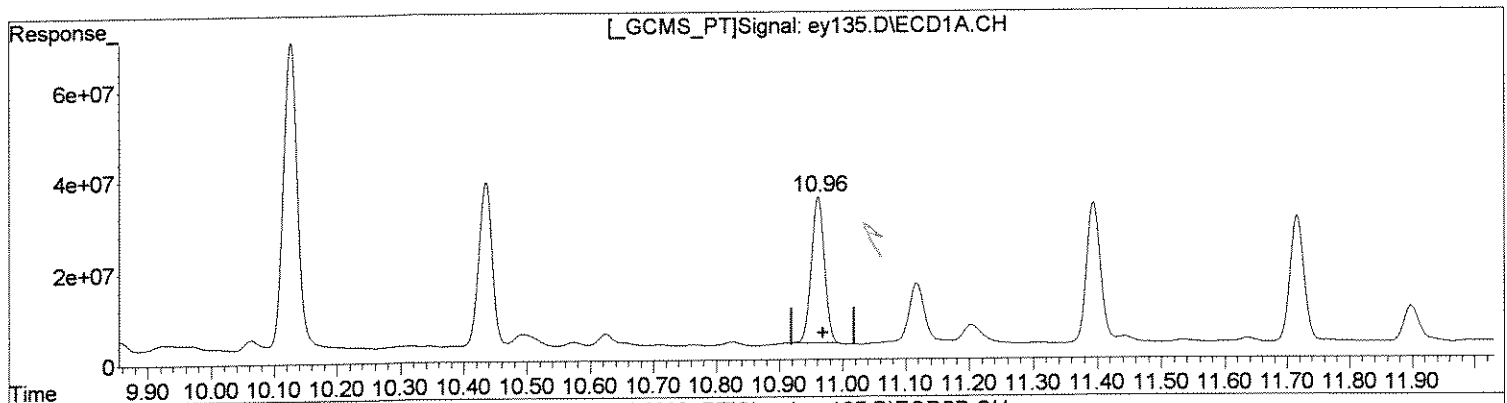
Peak

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm))
10.96min 16.346ug/l m
response 461060303

(4) gamma-BHC (L #2 (tcm))
10.96min 17.179ug/l m
response 1805114685

16/7/17

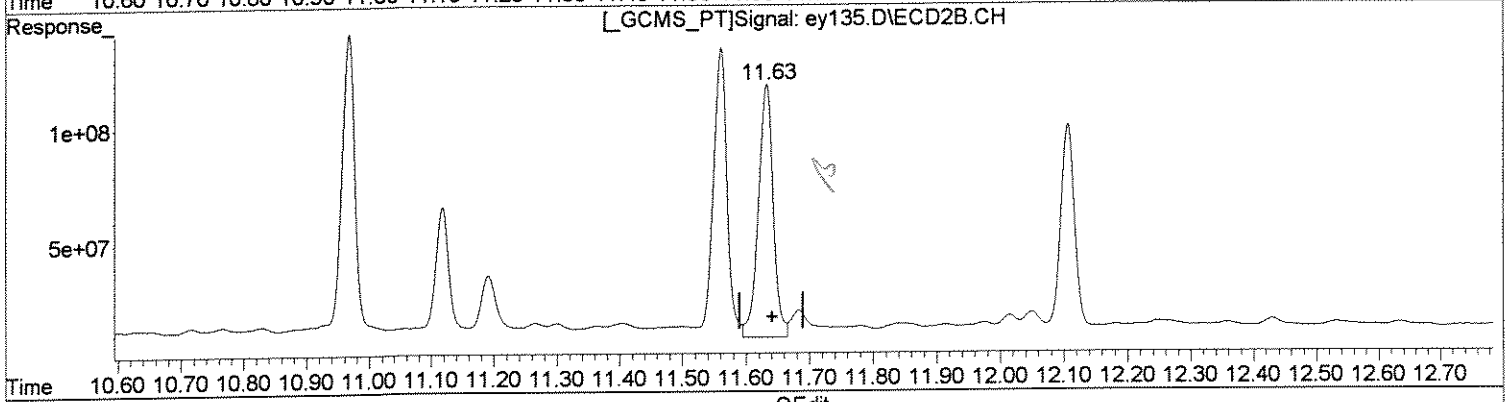
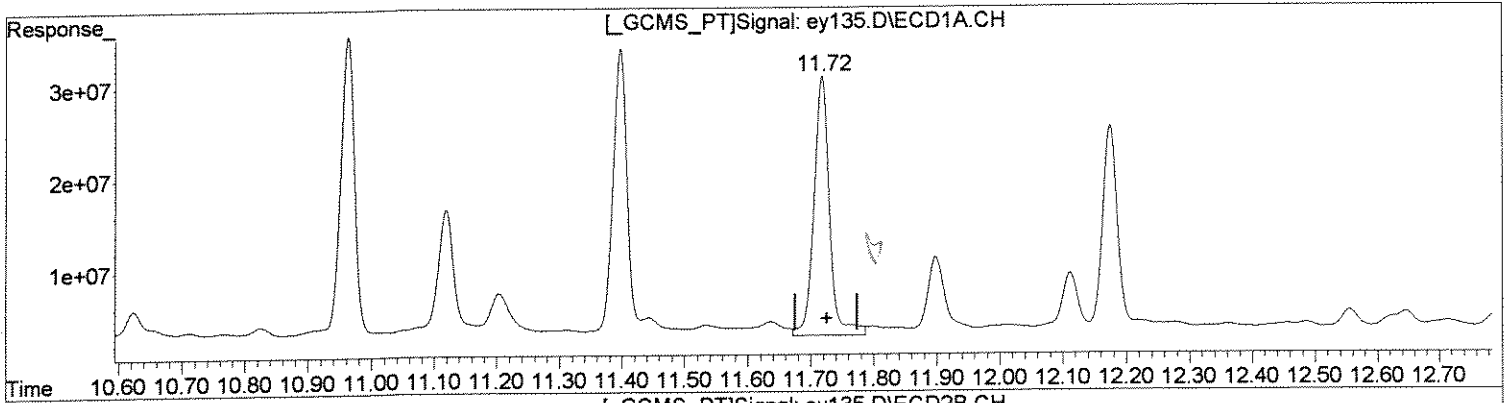
mw/17

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(5) Heptachlor (tcm)
11.72min 17.578ug/l
response 491193352

(5) Heptachlor #2 (tcm)
11.63min 17.985ug/l
response 1805022131

Sue

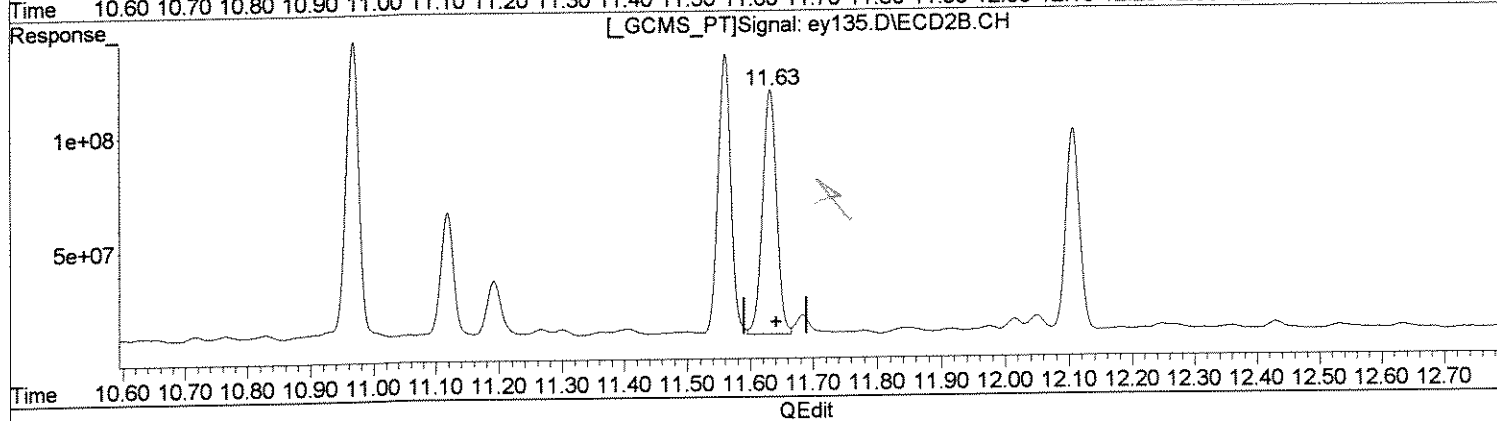
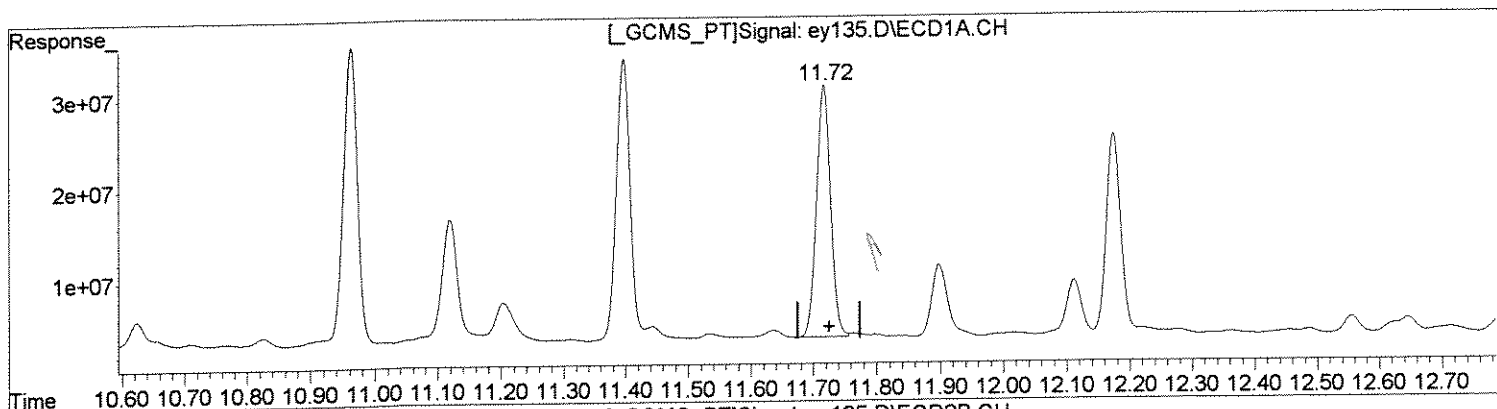
QEdit

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(5) Heptachlor (tcm)
11.72min 15.532ug/l m
response 434019251

(5) Heptachlor #2 (tcm)
11.63min 16.504ug/l m
response 1656359222

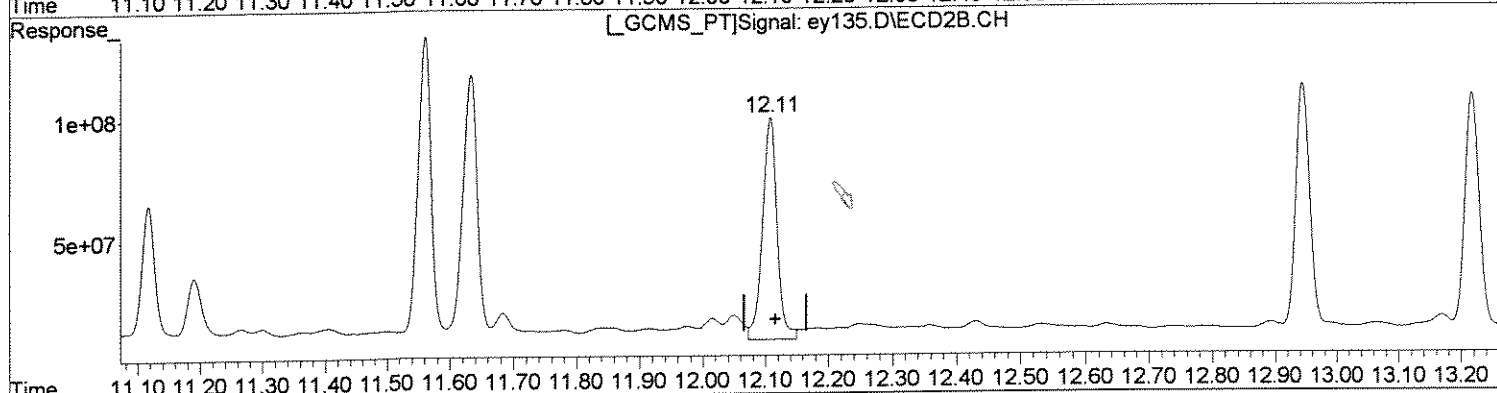
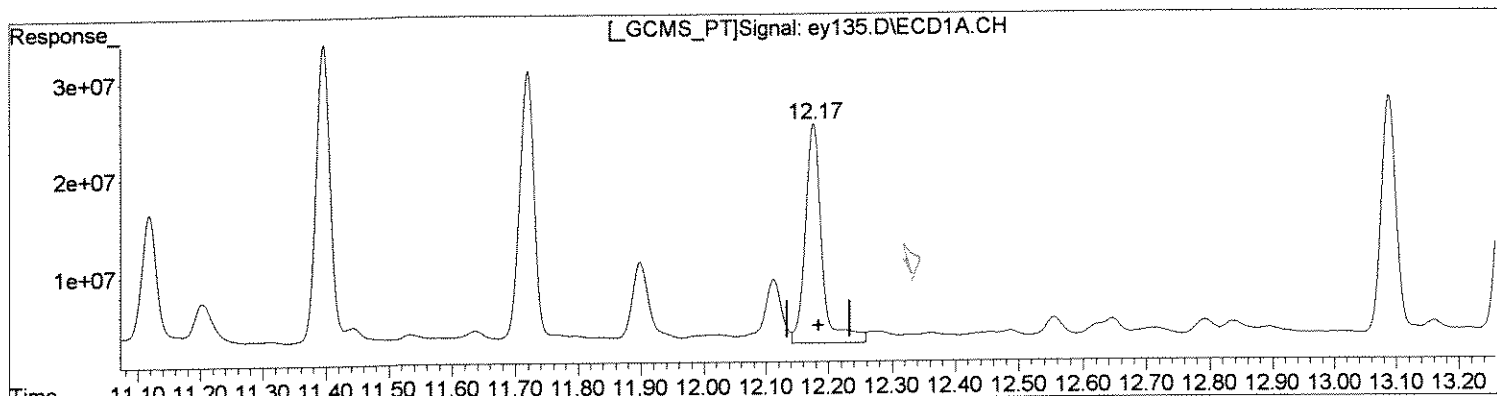
Handwritten signatures and dates:
M.P. 7/17
M.P. 7/17

Quantitation Report (Qedit)

Data Path : J:\ACQUADATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(6) Aldrin (tcm)
12.18min 16.702ug/l
response 413516226

(6) Aldrin #2 (tcm)
12.11min 16.358ug/l
response 1490161201

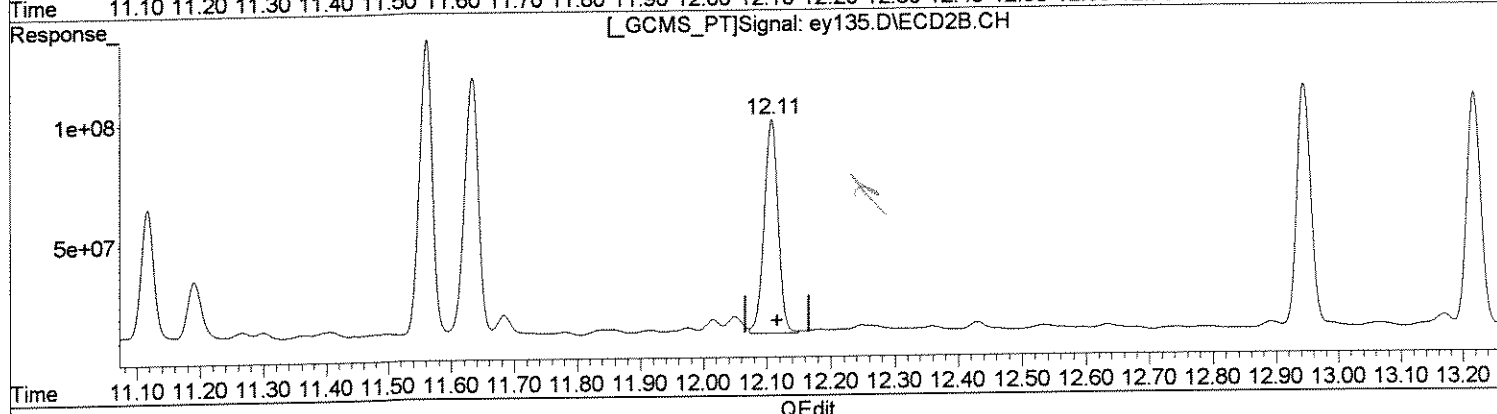
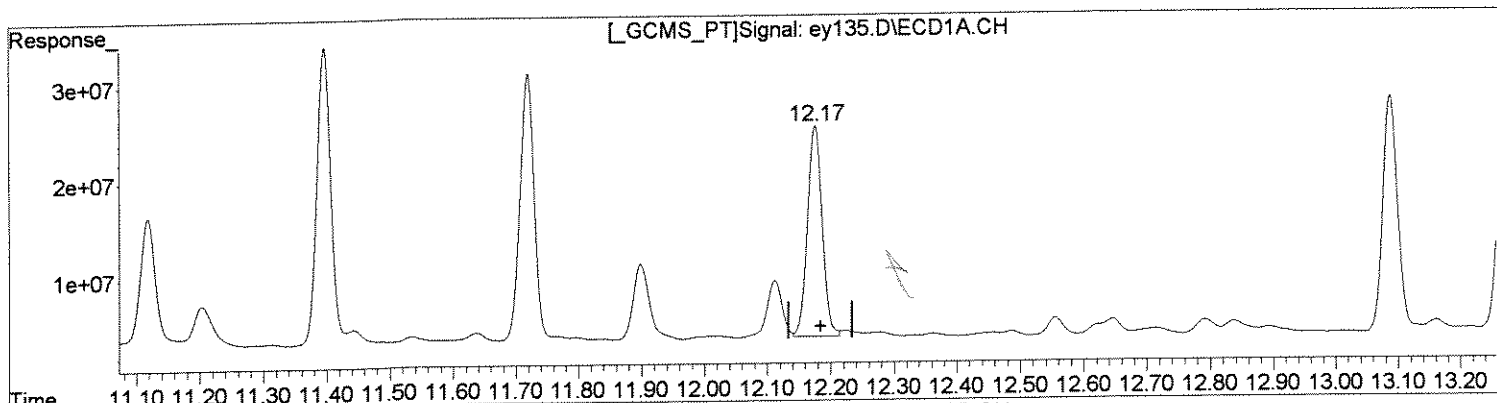
handwritten mark

Quantitation Report (Qedit)

Data Path : J:\ACQUADATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(6) Aldrin (tcm)
12.17min 14.095ug/l m
response 348981551

(6) Aldrin #2 (tcm)
12.11min 14.796ug/l m
response 1347842344

log
7/17

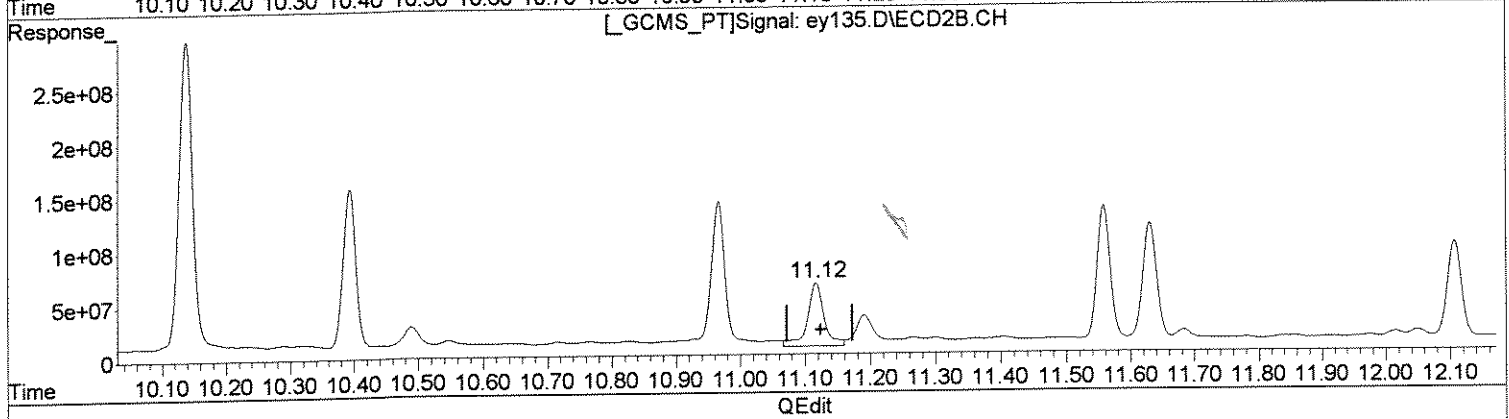
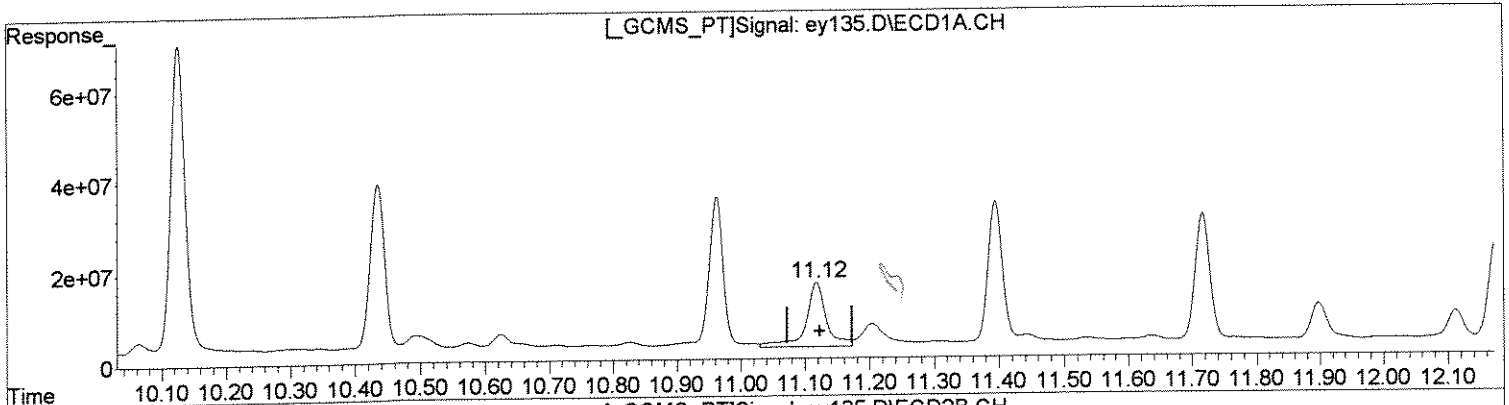
ML
7/17

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
11.12min 27.074ug/l
response 310886464

(7) beta-BHC #2 (tc)
11.12min 22.685ug/l
response 1023768377

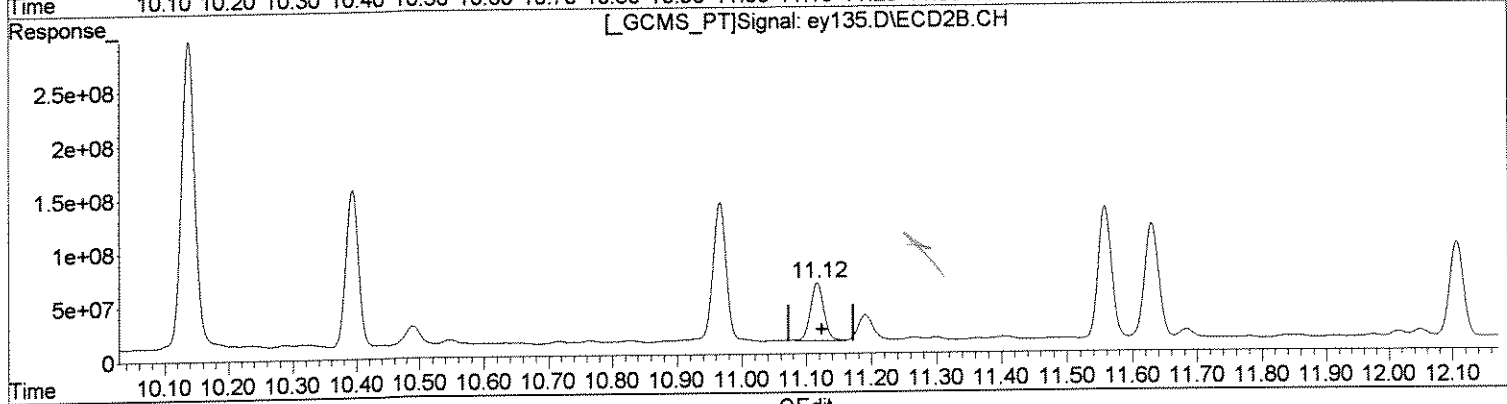
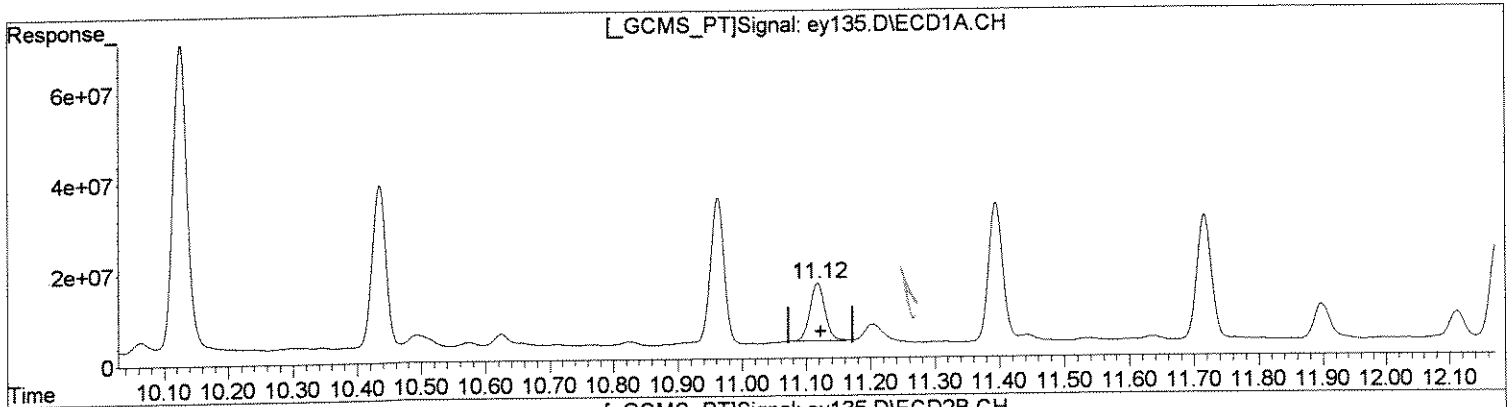
BHP

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
11.12min 17.841ug/l m
response 204871392

(7) beta-BHC #2 (tc)
11.12min 16.943ug/l m
response 764656227

MW
7/17

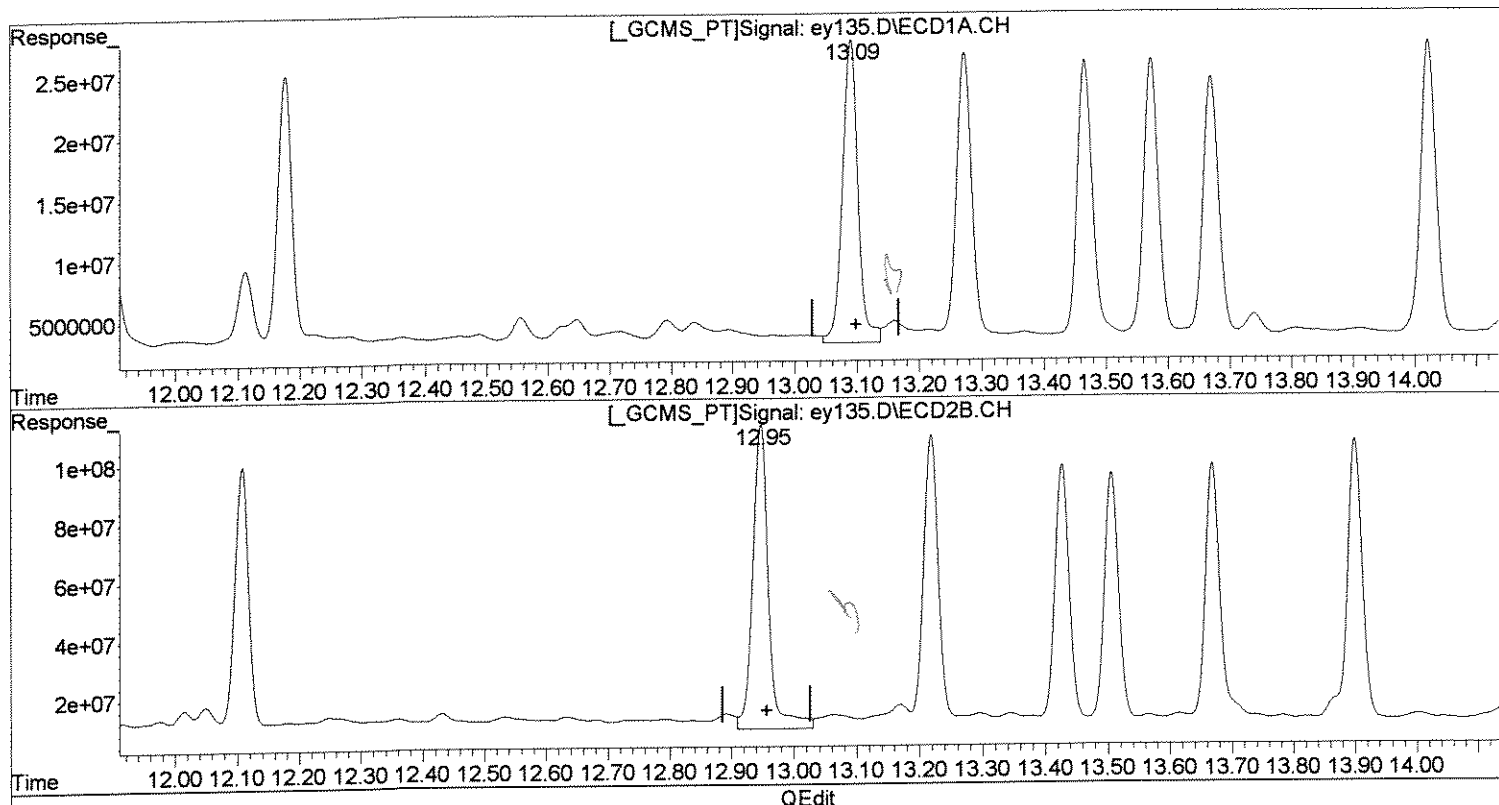
MW
7/17

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.09min 19.193ug/l
response 436864357

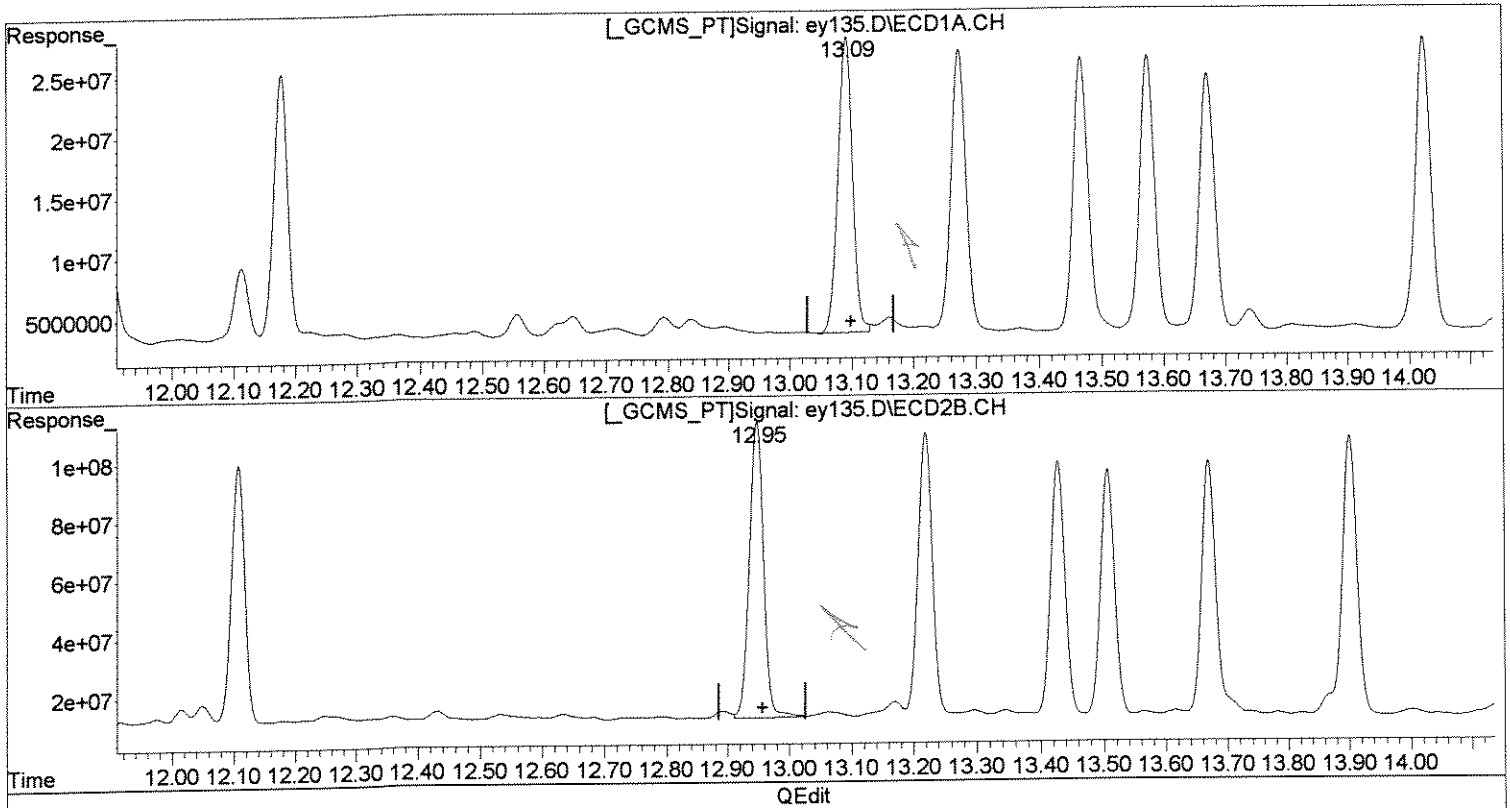
(9) Heptachlor E #2 (tc)
12.95min 22.676ug/l
response 1823057271

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.09min 17.618ug/l m
response 401021777

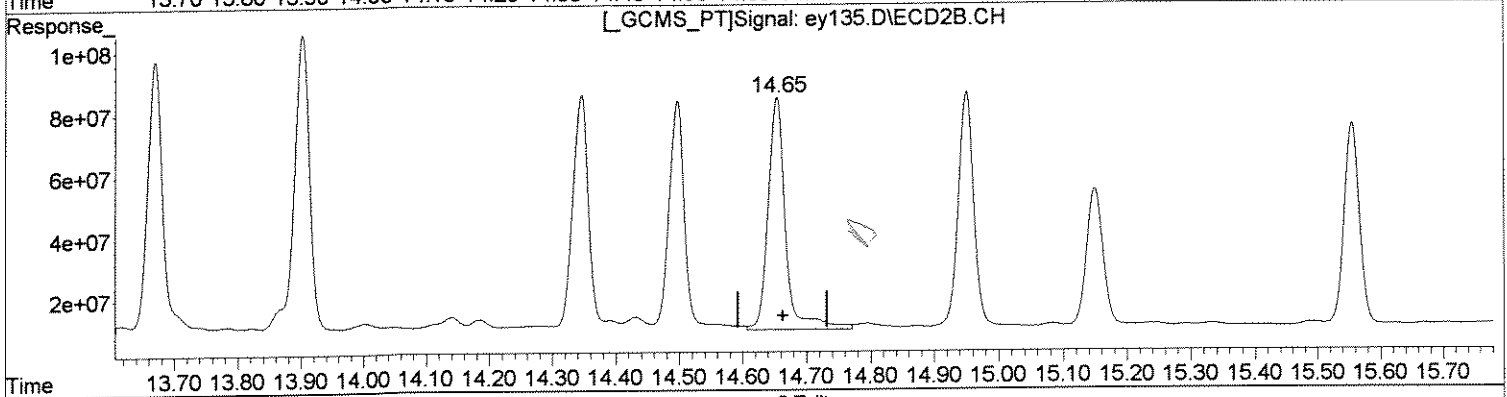
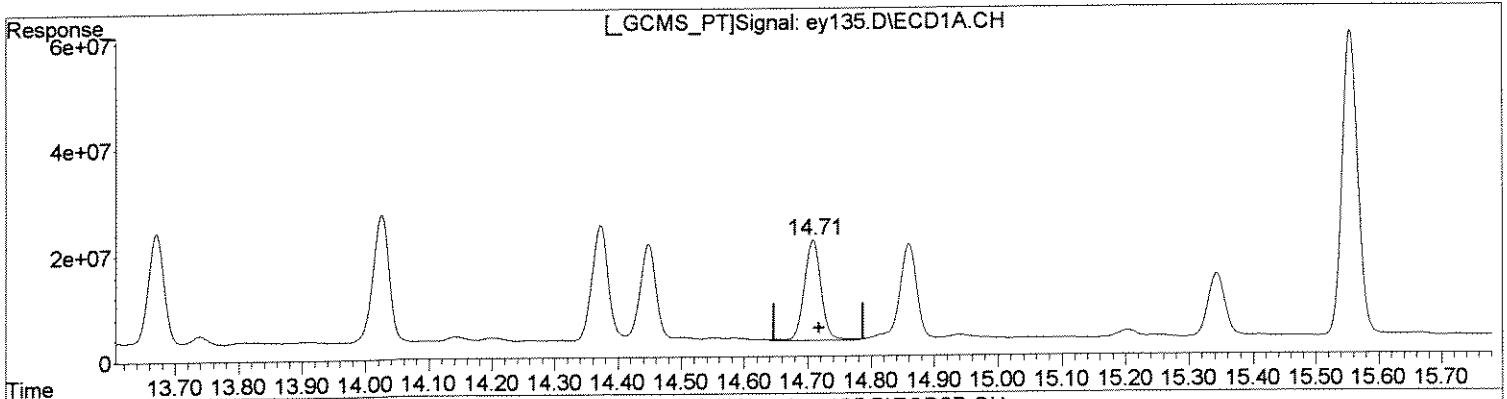
(9) Heptachlor E #2 (tc)
12.95min 20.001ug/l m
response 1608047163

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(17) beta-Endosul (tc)
14.71min 18.493ug/l
response 343770067

(17) beta-Endosul #2 (tc)
14.65min 22.199ug/l
response 1425128647

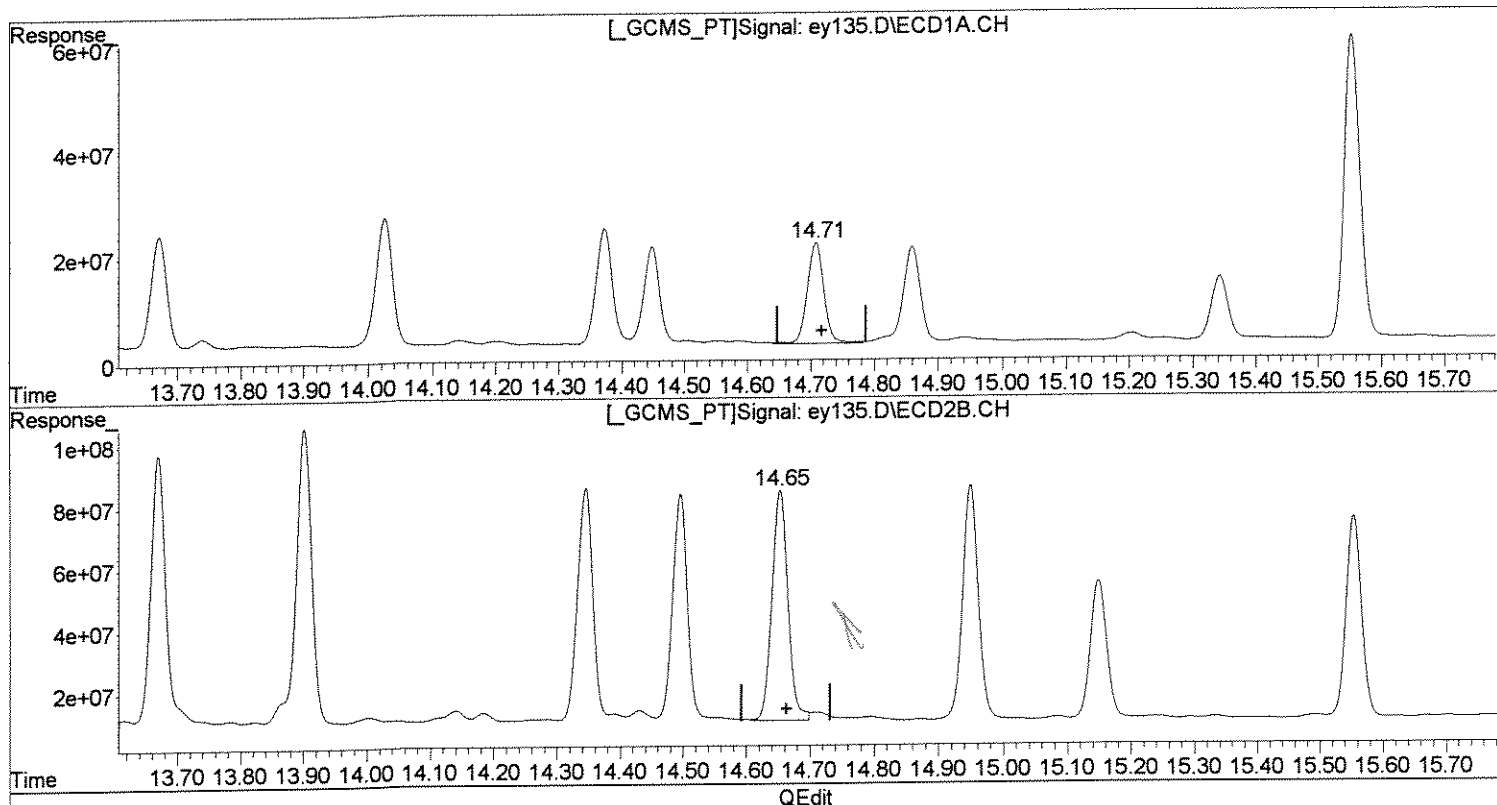
copy

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) beta-Endosul (tc)
14.71min 18.493ug/l
response 343770067

(17) beta-Endosul #2 (tc)
14.65min 19.977ug/l m
response 1282511518

Handwritten signature
16/7/08

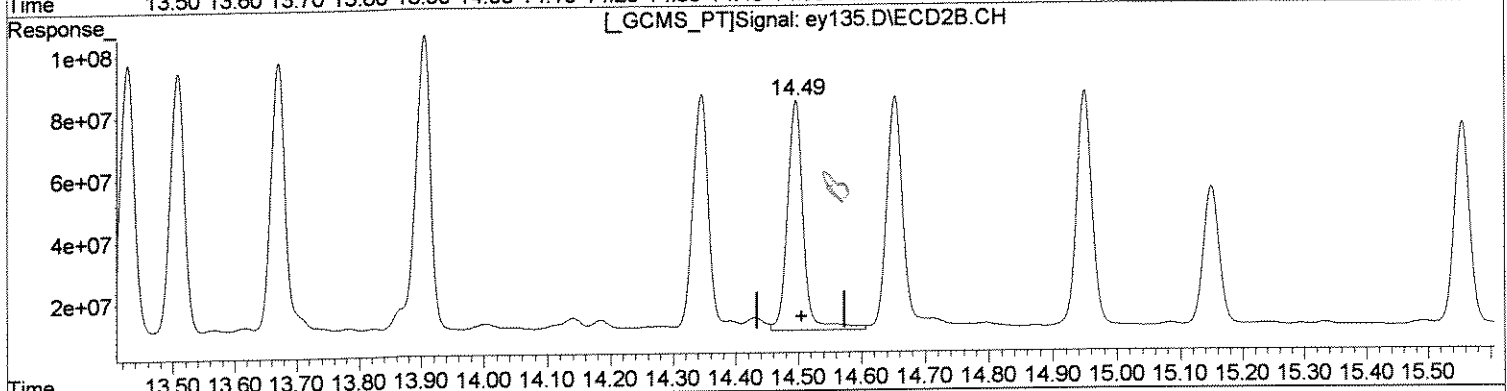
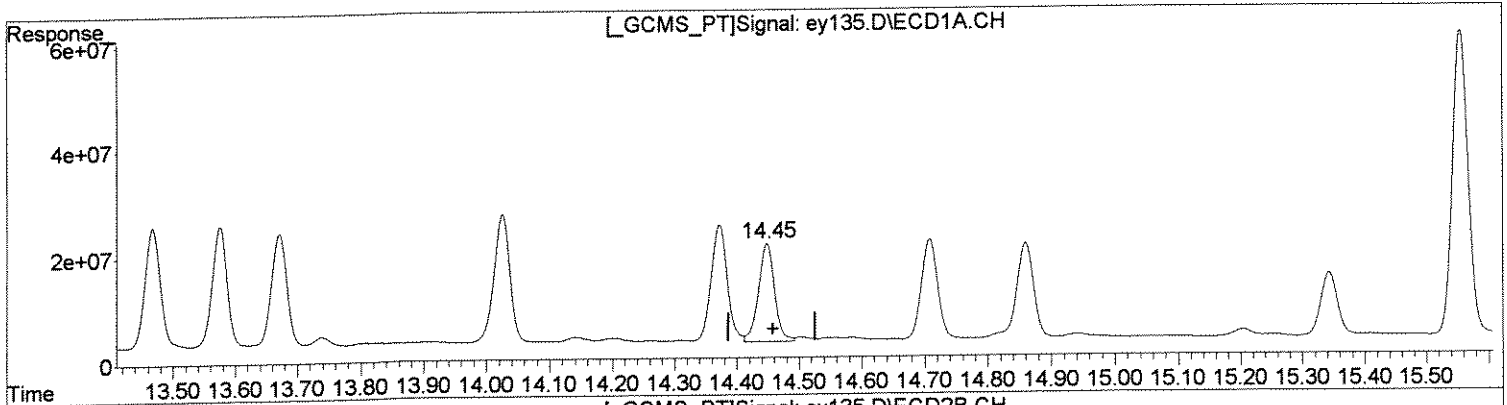
Handwritten signature
16/7/08

Quantitation Report (Qedit)

Data Path : J:\ACQUADATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)
14.45min 18.373ug/l
response 330599434

(18) 4,4'-DDD #2 (tc)
14.49min 21.080ug/l
response 1312003773

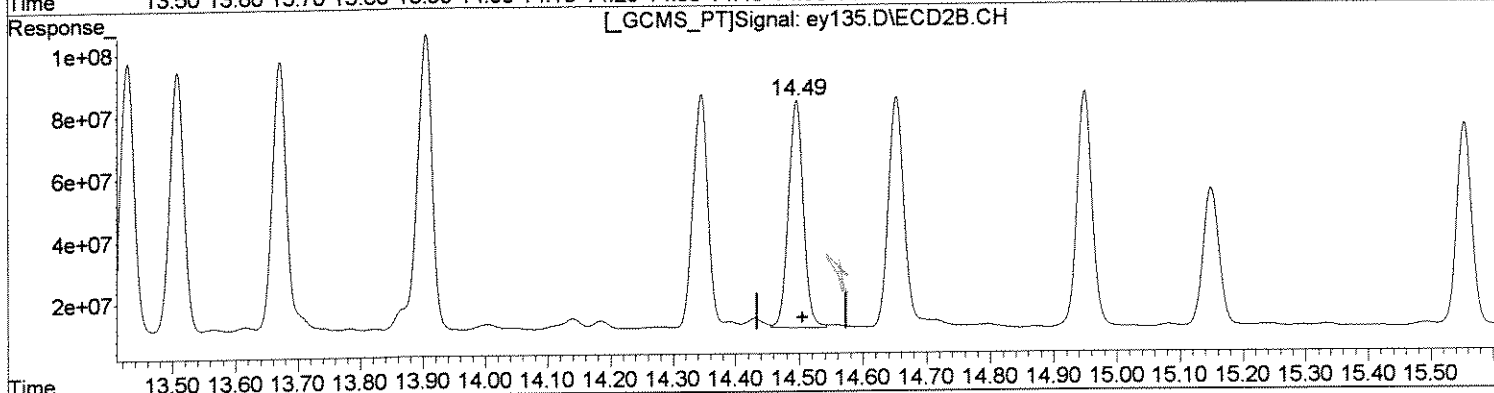
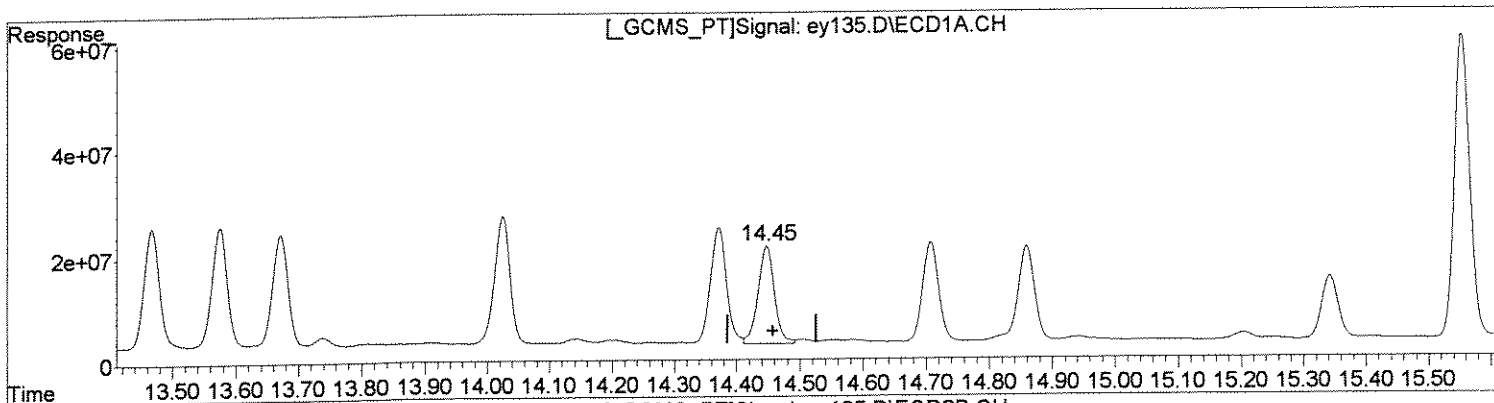
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:01 pm
Operator : M.PEDRO
Sample : 1117895 1.0
Misc : 07/01/08 200 ensr 8081 lcs
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) 4,4'-DDD (tc)
14.45min 18.373ug/l
response 330599434

(18) 4,4'-DDD #2 (tc)
14.49min 19.095ug/l m
response 1188490270

M.P.
7/17

Data Path : J:\ACQUADATA\6890D\DATA\071608\
 Data File : EY135.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 5:01 pm
 Operator : M.PEDRO
 Sample : 1117895 1.0
 Misc : 07/01/08 200 ensr 8081 lcs
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:33 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	1678.2E6	6176.6E6	83.159	76.329
Spiked Amount	100.000	Range	30 - 150	Recovery =	83.16%	76.33%
25) S SURR2,Decachloro	17.61	17.85	1418.6E6	4785.5E6	81.226	86.890
Spiked Amount	100.000	Range	30 - 150	Recovery =	81.23%	86.89%
Target Compounds						
2) TC HEXACHLOROBENZEN	10.13	10.14	1165.7E6	4708.6E6	39.670	38.743
3) tc alpha-BHC	10.43	10.39	598.8E6	2260.5E6	19.370	19.048
4) tcm gamma-BHC (L	10.96	10.97	551.3E6	2401.3E6	19.546	22.853
5) tcm Heptachlor	11.72	11.63	491.2E6	1805.0E6	17.578	17.985
6) tcm Aldrin	12.18	12.11	413.5E6	1490.2E6	16.702	16.358
7) tc beta-BHC	11.12	11.12	310.9E6	1023.8E6	27.074	22.685
8) tc delta-BHC	11.39	11.56	511.7E6	1912.6E6	18.815	18.526
9) tc Heptachlor E	13.09	12.95	436.9E6	1823.1E6	19.193	22.676
10) tc alpha-Endosu	13.67	13.51	392.7E6	1420.7E6	19.196	20.018
11) tc gamma-Chlord	13.27	13.22	426.3E6	1670.8E6	19.446	20.369
12) tc alpha-Chlord	13.47	13.43	420.7E6	1475.0E6	19.668	18.990
13) tc 4,4'-DDE	13.57	13.67	404.8E6	1602.6E6	18.585	20.907
14) tcm Dieldrin	14.02	13.90	445.0E6	1756.2E6	19.479	22.445
15) tcm Endrin	14.37	14.34	399.4E6	1332.4E6	19.277	19.781
16) tc KEPONE	14.45	0.00	330.6E6	0	45.190	N.D. #
17) tc beta-Endosul	14.71	14.65	343.8E6	1425.1E6	18.493	22.199
18) tc 4,4'-DDD	14.45	14.49	330.6E6	1312.0E6	18.373	21.080
19) tcm 4,4'-DDT	14.86	14.95	346.8E6	1309.1E6	18.123	19.985
20) tc Endrin Aldeh	15.34	15.15	222.5E6	822.1E6	15.156	16.760
21) tc Endosulfan S	15.98	15.56	307.9E6	1110.4E6	18.275	19.430
22) tc Methoxychlor	15.56	15.92	1007.2E6	3410.9E6	108.155	117.400
23) tc FAMPHUR	16.26	15.67	3328086	3065000	0.245	0.073 #
24) tc Endrin Keton	16.37	16.31	371.2E6	1258.0E6	19.172	20.053
26) L8C Toxaphene	0.00	14.79	0	52286138	N.D.	27.023 #
27) L8C Toxaphene{2}	0.00	15.08	0	23299383	N.D.	25.826 #
28) L8C Toxaphene{3}	0.00	15.15	0	822.1E6	N.D.	439.749 #

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY135.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 5:01 pm
 Operator : M.PEDRO
 Sample : 1117895 1.0
 Misc : 07/01/08 200 ensr 8081 lcs
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:33 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
30) L8C Toxaphene{5}	16.55	16.68	11368746	25624789	17.080	11.357 #
Sum Toxaphene			11368746	923.3E6	17.080	503.955
Average Toxaphene					17.080	125.989
31) L9C Chlordane	0.00	11.40	0	239.6E6	N.D.	74.089 #
32) L9C Chlordane{2}	11.72	11.63	491.2E6	1805.0E6	436.018	401.160
33) L9C Chlordane{3}	0.00	12.36	0	157.9E6	N.D.	44.115 #
34) L9C Chlordane{4}	13.27	13.22	426.3E6	1670.8E6	154.102	166.727
Sum Chlordane			917.5E6	3873.3E6	590.121	686.091
Average Chlordane					295.060	171.523

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 09/02/08

Project Reference:
 Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : Order #: 1117896 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 164027

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/01/08			
DATE ANALYZED : 07/16/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.079	UG/L
ALPHA-BHC	0.050	0.094	UG/L
BETA-BHC	0.050	0.097	UG/L
GAMMA-BHC	0.050	0.088	UG/L
DELTA-BHC	0.050	0.091	UG/L
ALPHA-CHLORDANE	0.050	0.095	UG/L
GAMMA-CHLORDANE	0.050	0.099	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.099	UG/L
4,4'-DDT	0.050	0.095	UG/L
DIELDRIN	0.10	0.11	UG/L
ALPHA-ENDOSULFAN	0.050	0.099	UG/L
BETA-ENDOSULFAN	0.10	0.097 J	UG/L
ENDOSULFAN SULFATE	0.10	0.096 J	UG/L
ENDRIN	0.050	0.10	UG/L
ENDRIN ALDEHYDE	0.10	0.079 J	UG/L
ENDRIN KETONE	0.10	0.098 J	UG/L
HEPTACHLOR	0.050	0.081	UG/L
HEPTACHLOR EPOXIDE	0.050	0.098	UG/L
HEXACHLOROBENZENE	0.050	0.19	UG/L
METHOXYCHLOR	0.50	0.58	UG/L
4,4'-TDE (DDD)	0.050	0.10	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	83	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	79	%

01724

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey136.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 5:37 pm
 Operator : M.PEDRO
 Sample : 1117896 1.0
 Misc : 07/01/08 200 ensr 8081 lcsd
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:44:42 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	1591.7E6	5917.1E6	78.873	73.123
Spiked Amount	100.000	Range 30 - 150	Recovery =		78.87%	73.12%
25) S SURR2,Decachloro	17.60	17.85	1381.5E6	4583.9E6	79.101	83.229
Spiked Amount	100.000	Range 30 - 150	Recovery =		79.10%	83.23%
Target Compounds						
2) TC HEXACHLORO BENZEN	10.13	10.14	1140.5E6	4595.9E6	38.809	37.816
3) tc alpha-BHC	10.43	10.39	580.7E6	2223.9E6	18.783	18.739
4) tcm gamma-BHC (L	10.96	10.96	480.0E6	1847.0E6	17.019m	17.578m
5) tcm Heptachlor	11.72	11.63	428.6E6	1625.6E6	15.338m	16.197m
6) tcm Aldrin	12.18	12.11	390.1E6	1434.3E6	15.757	15.746
7) tc beta-BHC	11.12	11.12	222.9E6	799.3E6	19.412m	17.711m
8) tc delta-BHC	11.39	11.56	494.7E6	1859.3E6	18.187	18.009
9) tc Heptachlor E	13.09	12.95	402.5E6	1568.8E6	17.682m	19.514m
10) tc alpha-Endosu	13.67	13.51	386.2E6	1399.8E6	18.876	19.722
11) tc gamma-Chlord	13.27	13.22	412.9E6	1622.3E6	18.835	19.777
12) tc alpha-Chlord	13.47	13.43	405.8E6	1445.1E6	18.973	18.606
13) tc 4,4'-DDE	13.57	13.67	382.1E6	1515.8E6	17.541	19.775
14) tcm Dieldrin	14.02	13.90	431.9E6	1688.9E6	18.906	21.585
15) tcm Endrin	14.37	14.34	390.1E6	1369.2E6	18.826	20.327
17) tc beta-Endosul	14.71	14.65	341.5E6	1243.2E6	18.374	19.365m
18) tc 4,4'-DDD	14.45	14.49	331.2E6	1248.2E6	18.406	20.055
19) tcm 4,4'-DDT	14.86	14.95	336.4E6	1247.8E6	17.577	19.049
20) tc Endrin Aldeh	15.34	15.15	204.2E6	772.0E6	13.909	15.739
21) tc Endosulfan S	15.98	15.56	307.4E6	1094.8E6	18.250	19.158
22) tc Methoxychlor	15.55	15.92	990.0E6	3344.8E6	106.301	115.128
24) tc Endrin Keton	16.37	16.31	366.6E6	1225.7E6	18.932	19.539
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

44
7/17

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey136.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 5:37 pm
 Operator : M.PEDRO
 Sample : 1117896 1.0
 Misc : 07/01/08 200 ensr 8081 lcsd
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 07:44:42 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

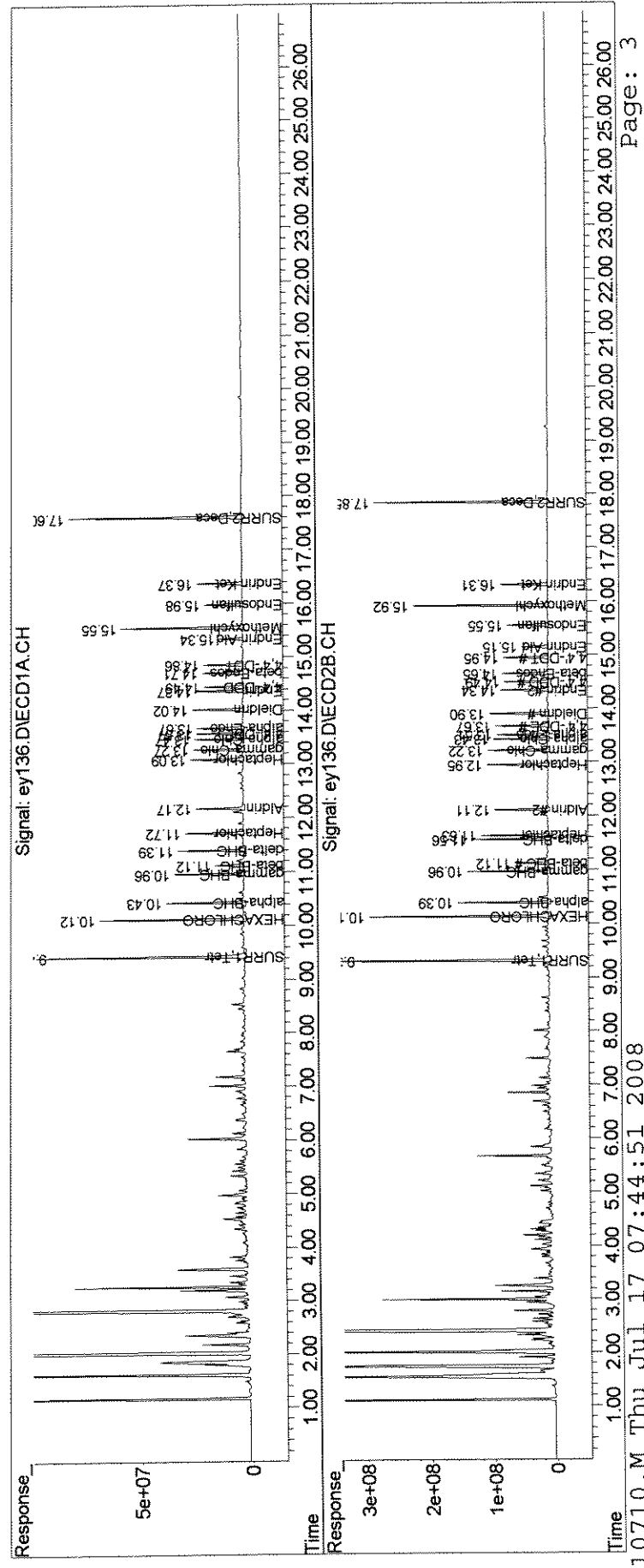
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:37 pm
Operator : M.PEDRO
Sample : 1117896 1.0
Misc : 07/01/08 200 ensr 8081 lcsd
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 07:44:42 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

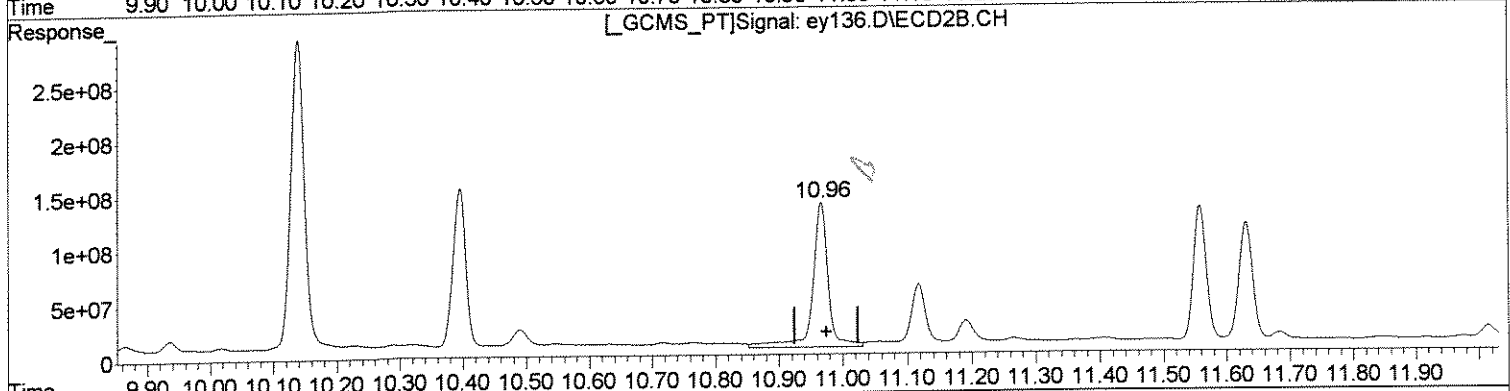
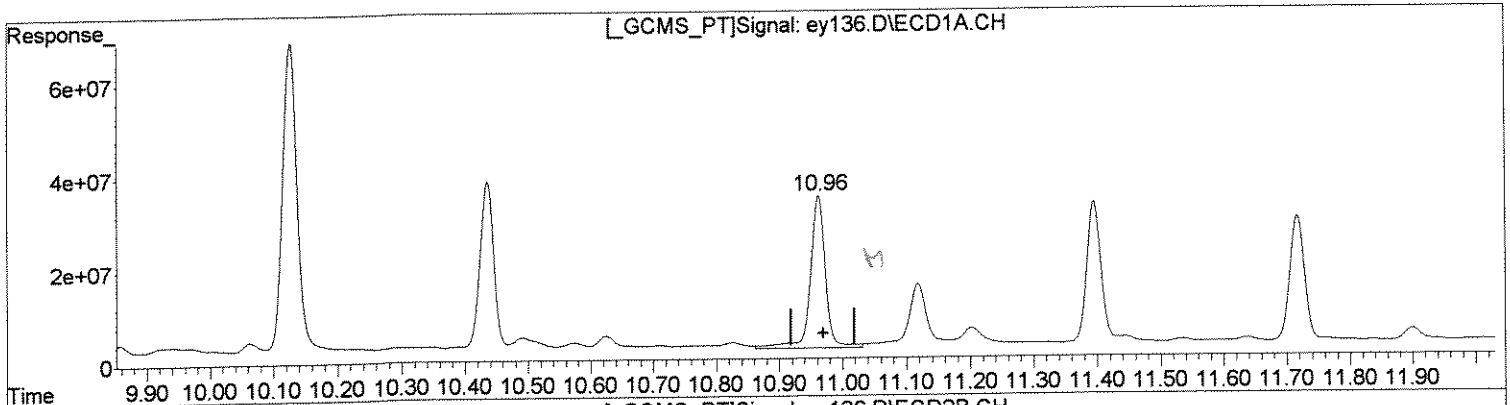


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:37 pm
Operator : M.PEDRO
Sample : 1117896 1.0
Misc : 07/01/08 200 ensr 8081 lcsd
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:41 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm))
10.96min 19.382ug/l
response 546684844

(4) gamma-BHC (L #2 (tcm))
10.97min 21.788ug/l
response 2289405398

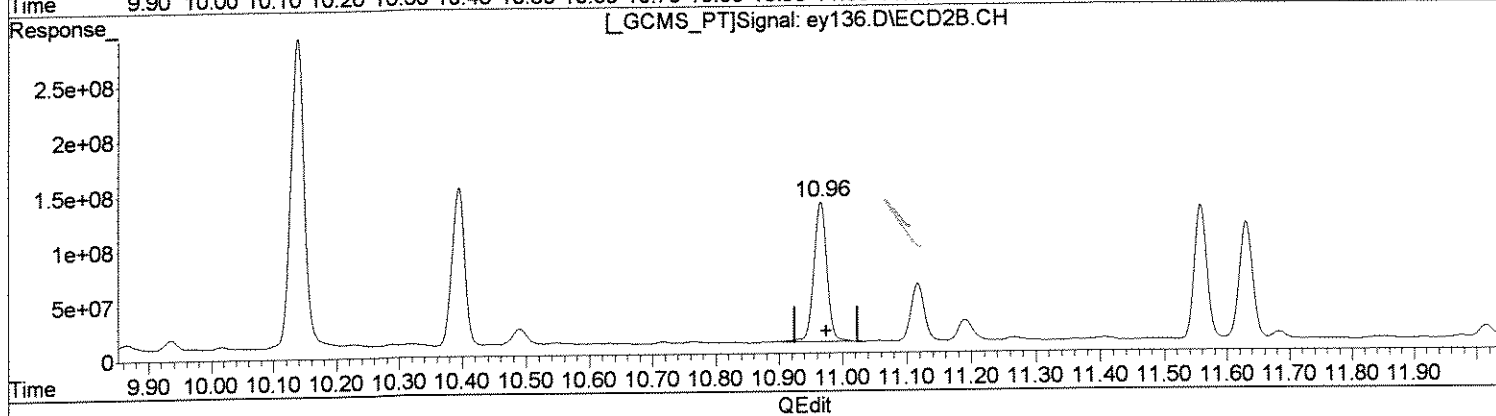
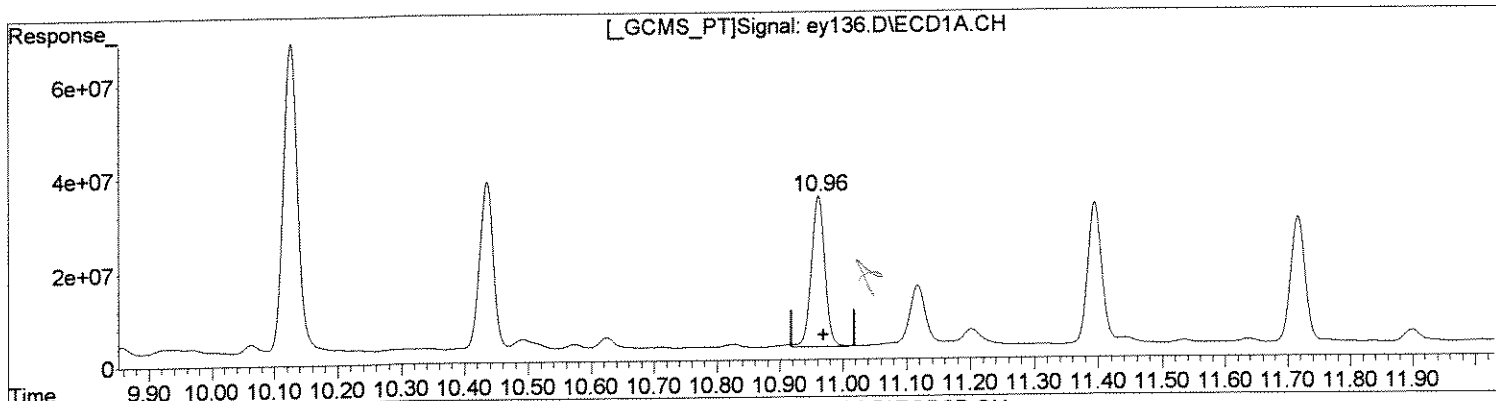
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:37 pm
Operator : M.PEDRO
Sample : 1117896 1.0
Misc : 07/01/08 200 ensr 8081 lcsd
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:41 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm))
10.96min 17.019ug/l m
response 480039787

(4) gamma-BHC (L #2 (tcm))
10.96min 17.578ug/l m
response 1846973407

MW
7/17

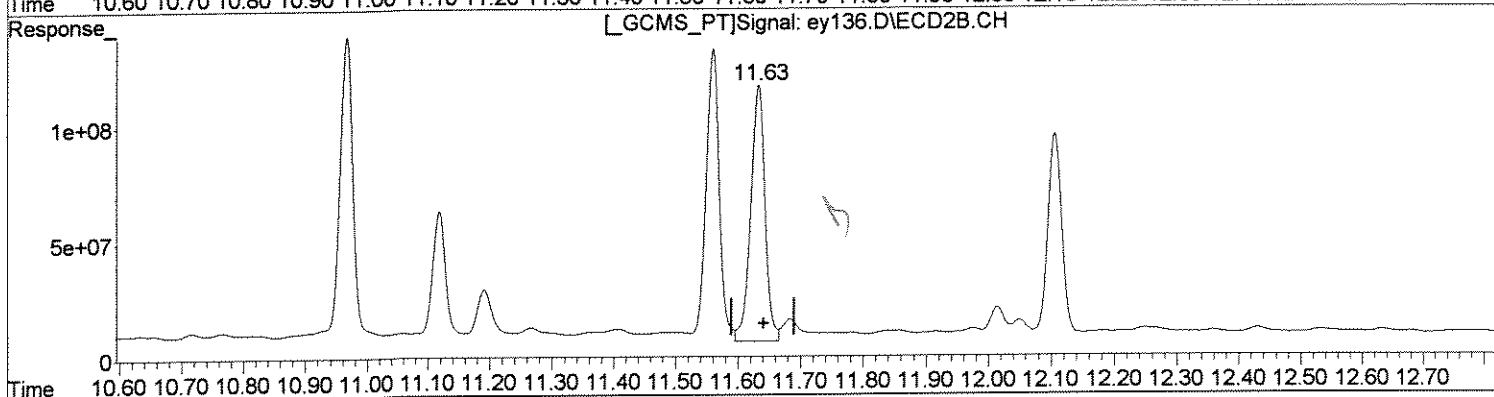
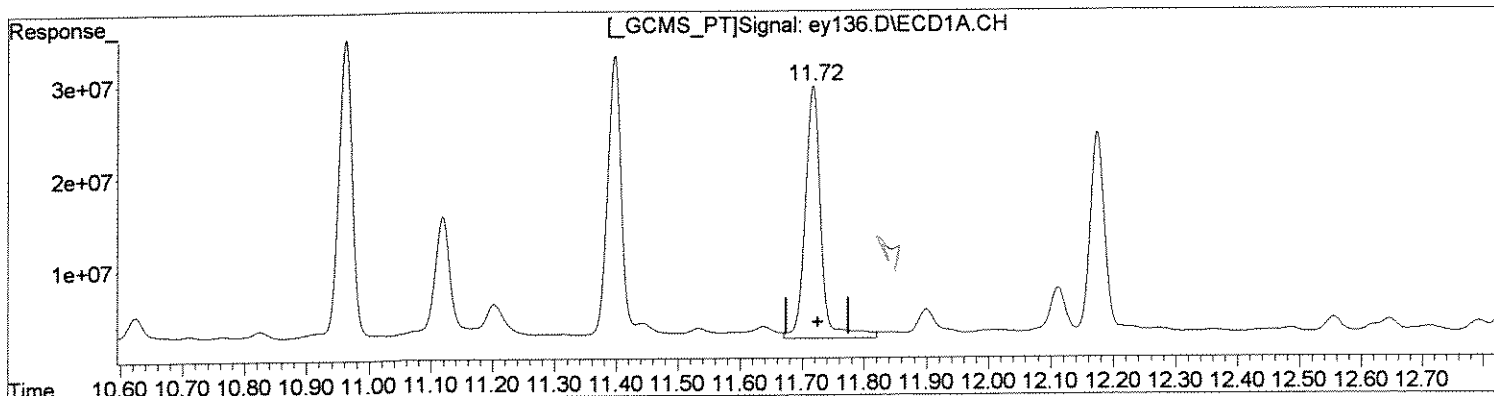
MW
7/17

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:37 pm
Operator : M.PEDRO
Sample : 1117896 1.0
Misc : 07/01/08 200 ensr 8081 lcsd
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:41 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(5) Heptachlor (tcm)
11.72min 17.488ug/l
response 488693335

(5) Heptachlor #2 (tcm)
11.63min 17.481ug/l
response 1754378442

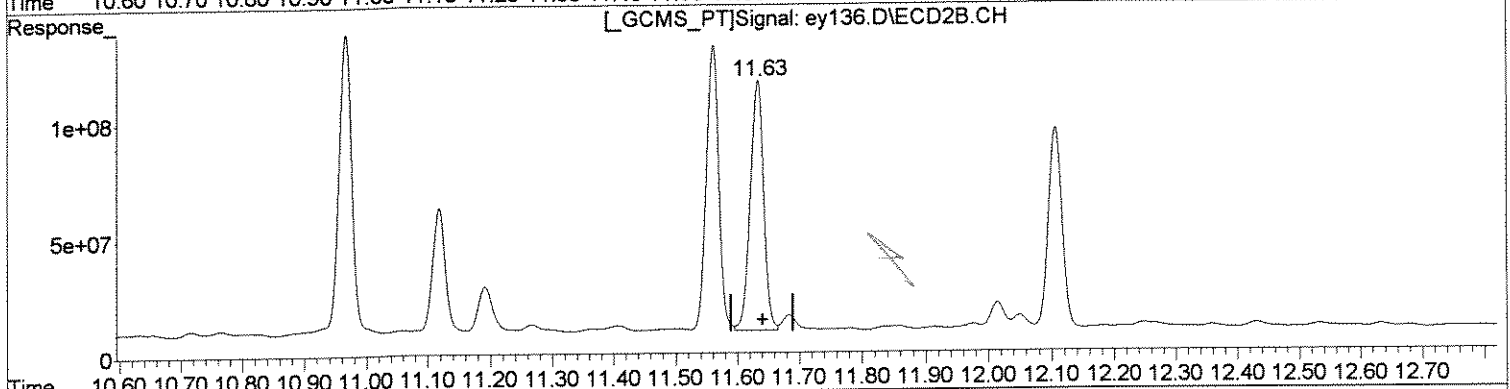
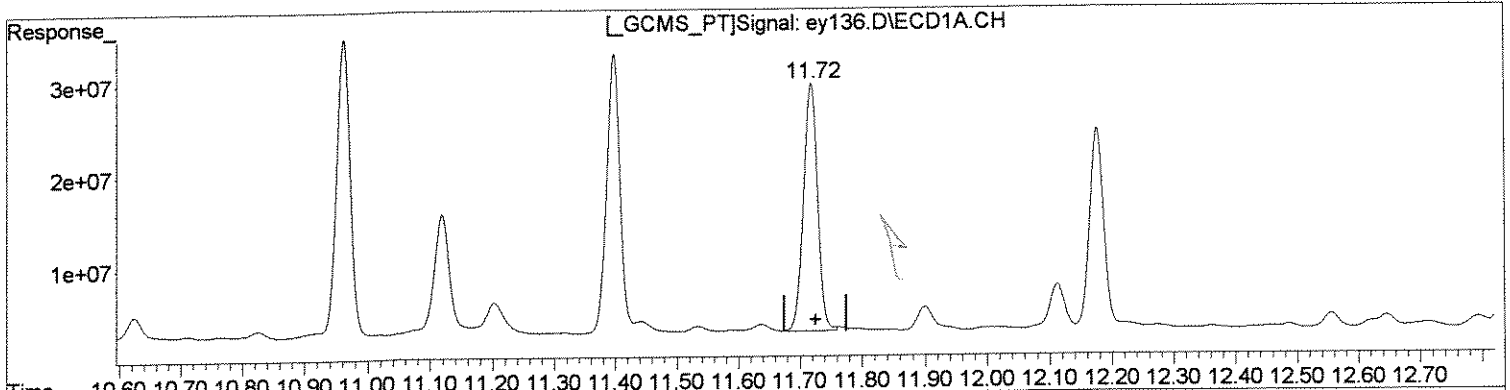
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:37 pm
Operator : M.PEDRO
Sample : 1117896 1.0
Misc : 07/01/08 200 ensr 8081 lcsd
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:41 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(5) Heptachlor (tcm)
11.72min 15.338ug/l m
response 428617131

(5) Heptachlor #2 (tcm)
11.63min 16.197ug/l m
response 1625598658

Handwritten signature

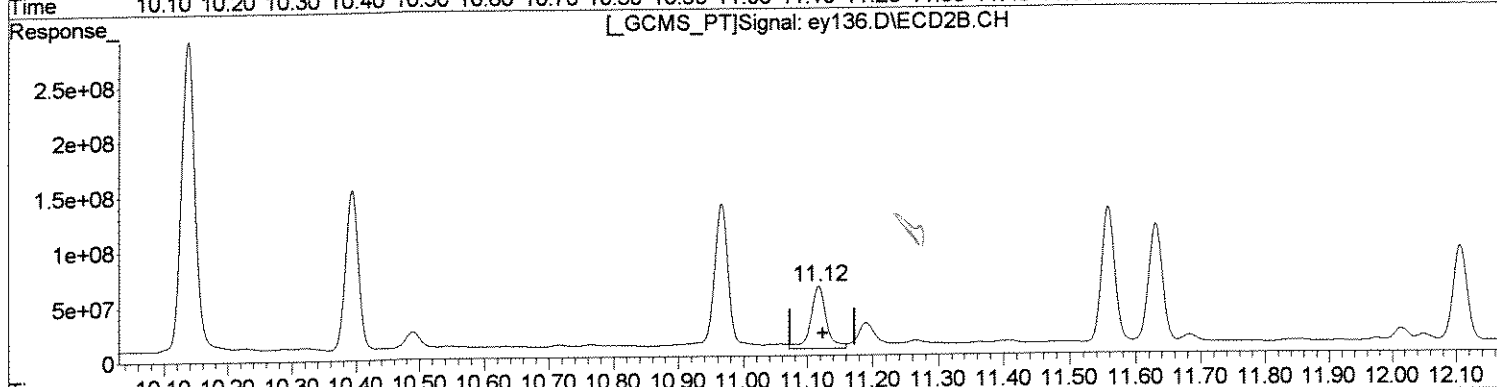
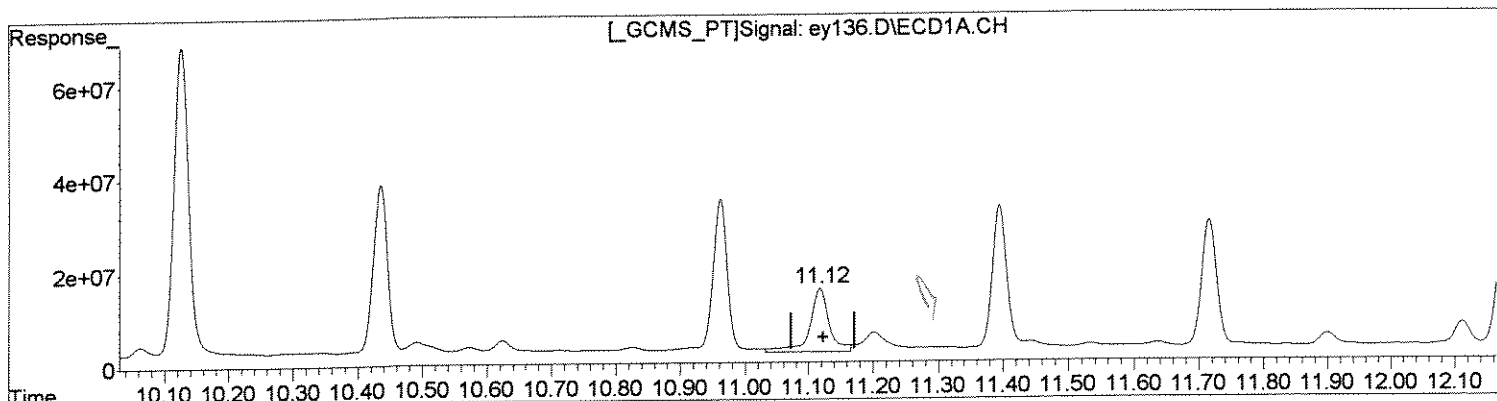
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Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:37 pm
Operator : M.PEDRO
Sample : 1117896 1.0
Misc : 07/01/08 200 ensr 8081 lcsd
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:41 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
11.12min 24.883ug/l
response 285730357

(7) beta-BHC #2 (tc)
11.12min 21.254ug/l
response 959199514

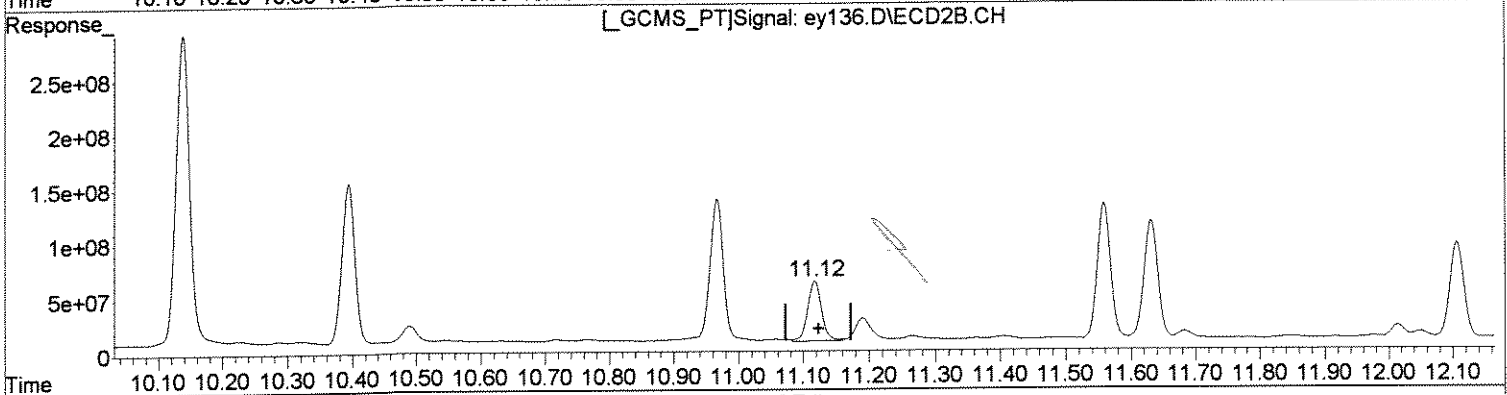
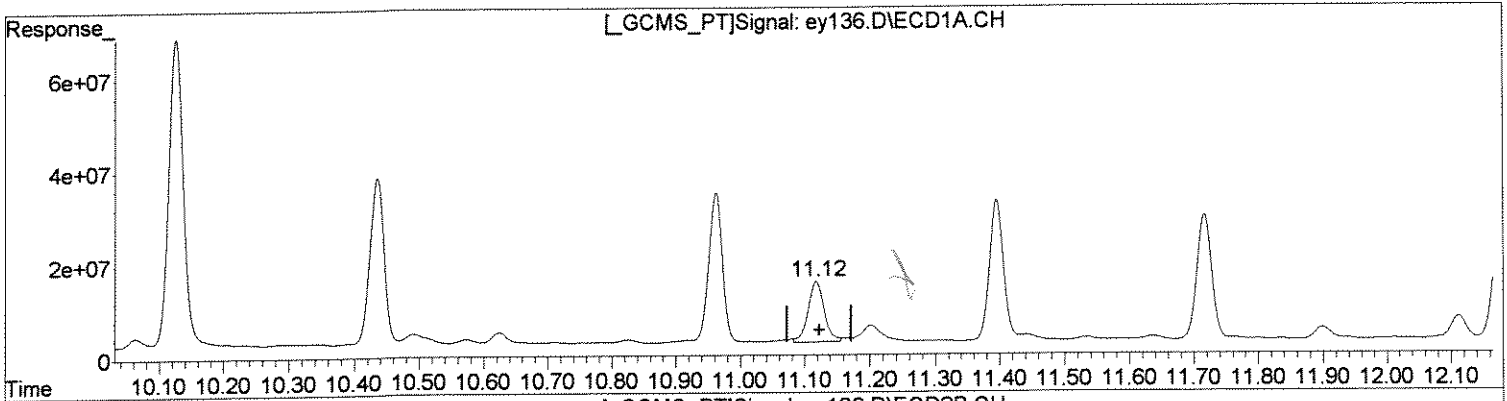
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:37 pm
Operator : M.PEDRO
Sample : 1117896 1.0
Misc : 07/01/08 200 ensr 8081 lcsd
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:41 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(7) beta-BHC (tc)
11.12min 19.412ug/l m
response 222905592

(7) beta-BHC #2 (tc)
11.12min 17.711ug/l m
response 799282071

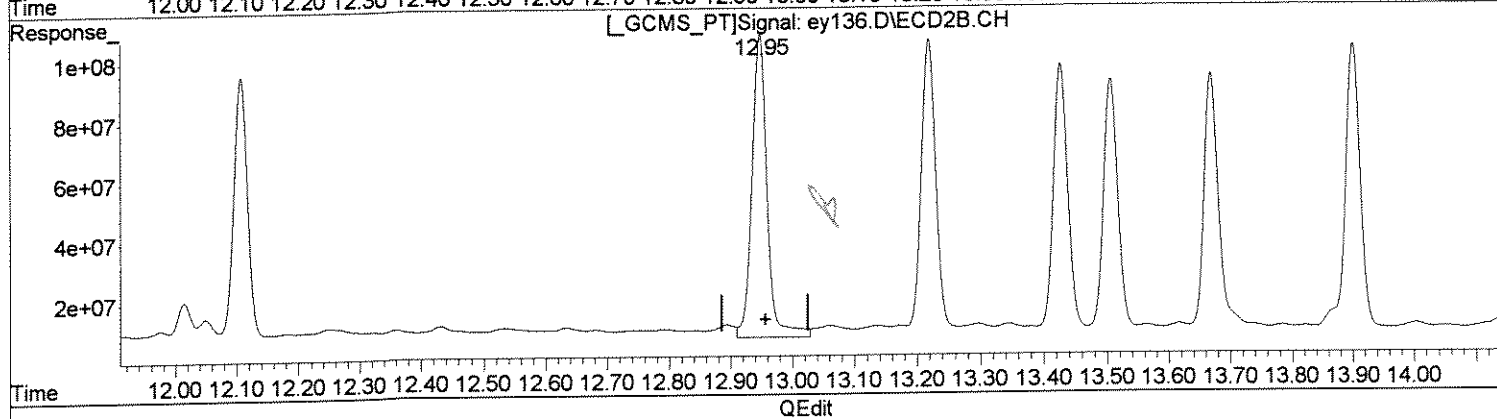
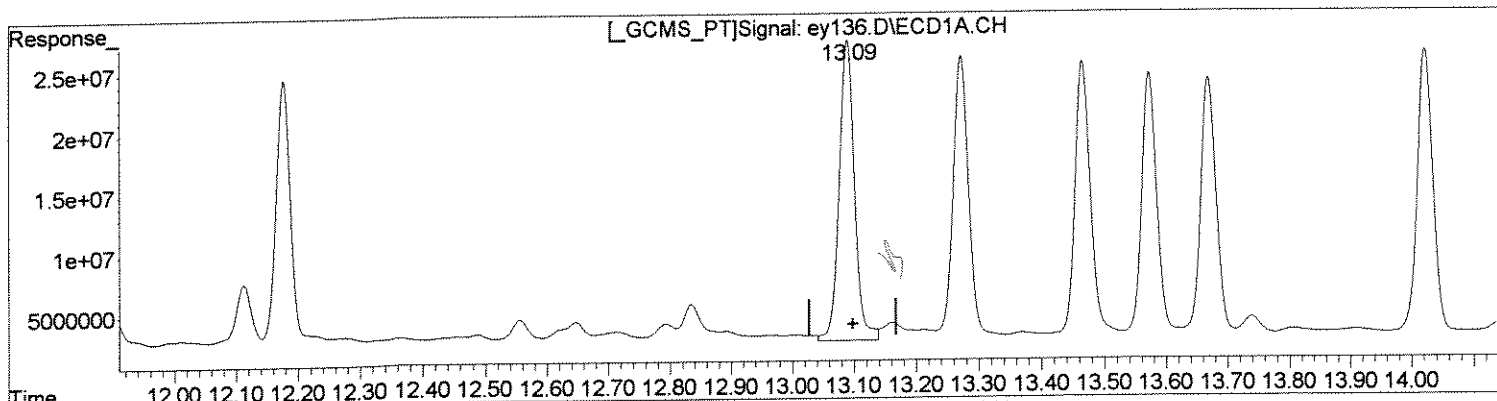
M/P
MLW

Quantitation Report (Qedit)

Data Path : J:\ACQUADATA\6890D\DATA\071608\
Data File : ey136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:37 pm
Operator : M.PEDRO
Sample : 1117896 1.0
Misc : 07/01/08 200 ensr 8081 lcsd
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:41 2008
Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.09min 18.660ug/l
response 424724035

(9) Heptachlor E #2 (tc)
12.95min 21.449ug/l
response 1724417367

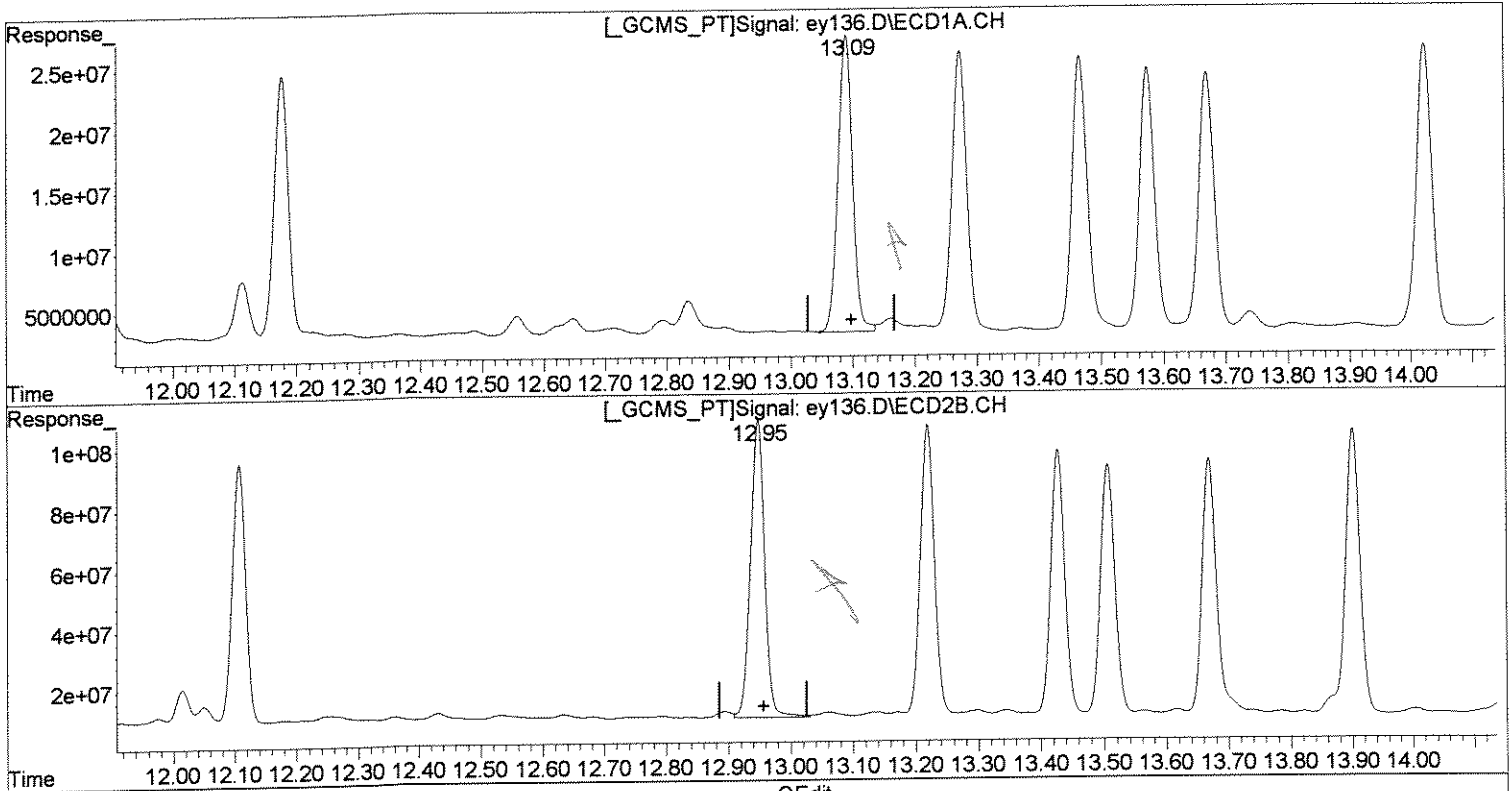
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:37 pm
Operator : M.PEDRO
Sample : 1117896 1.0
Misc : 07/01/08 200 ensr 8081 lcsd
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:41 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.09min 17.682ug/l m
response 402479565

(9) Heptachlor E #2 (tc)
12.95min 19.514ug/l m
response 1568847043

MW
7/17

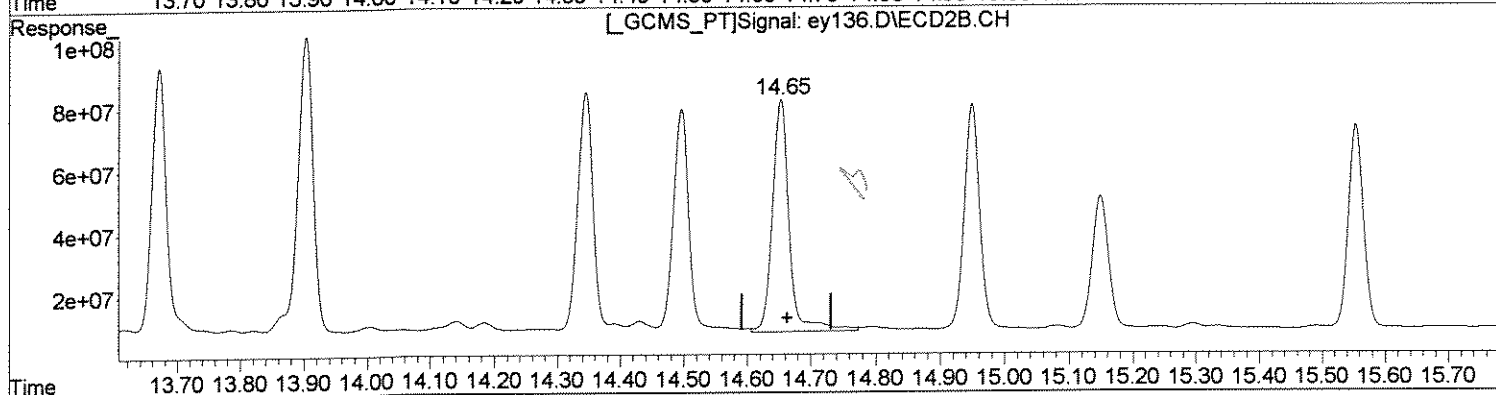
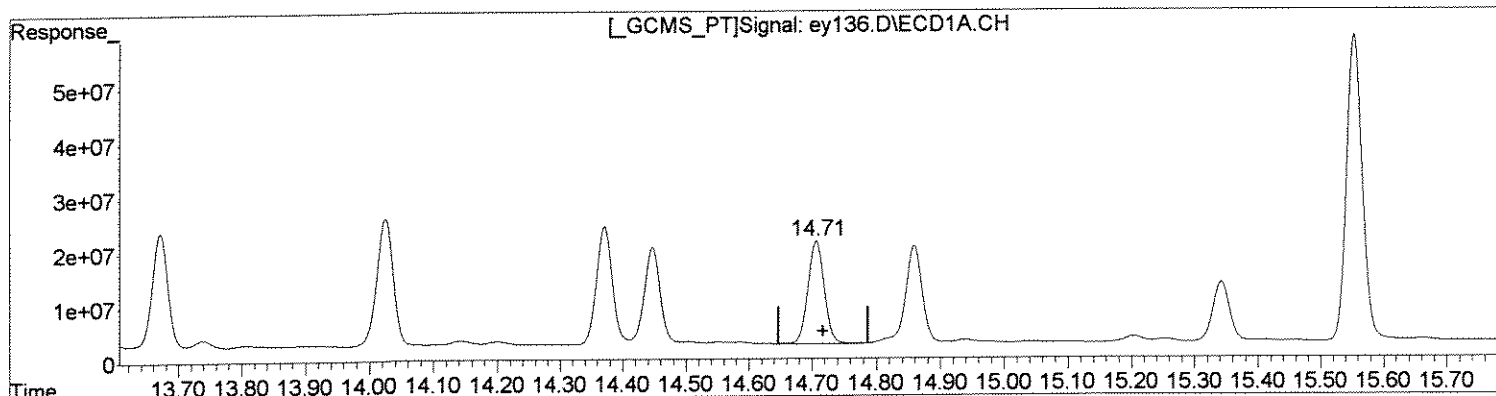
MW
7/17

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : ey136.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 5:37 pm
 Operator : M.PEDRO
 Sample : 1117896 1.0
 Misc : 07/01/08 200 ensr 8081 lcsd
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:41 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) beta-Endosul (tc)
 14.71min 18.374ug/l
 response 341543910

(17) beta-Endosul #2 (tc)
 14.65min 21.348ug/l
 response 1370499247

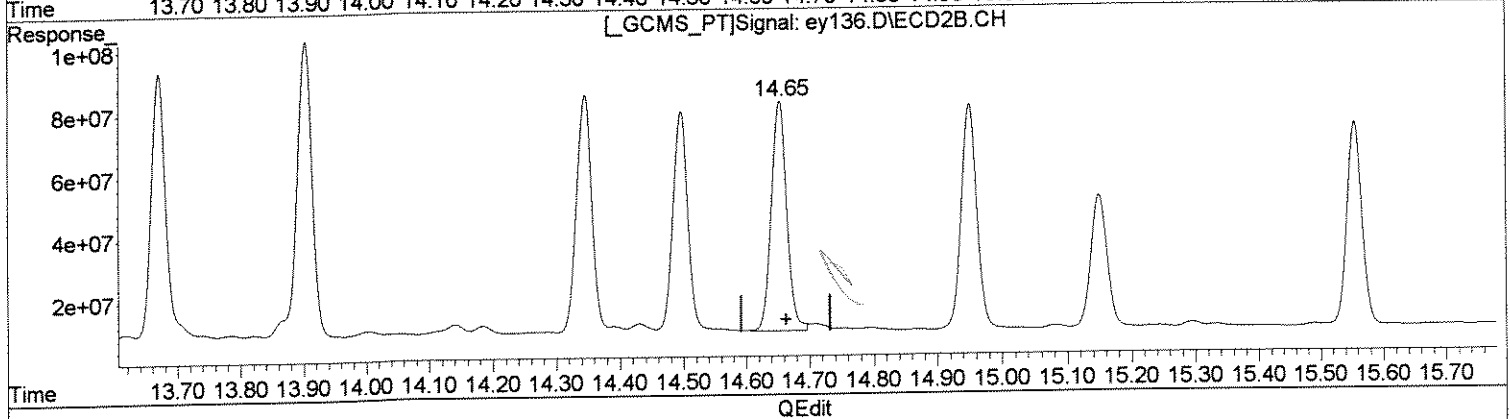
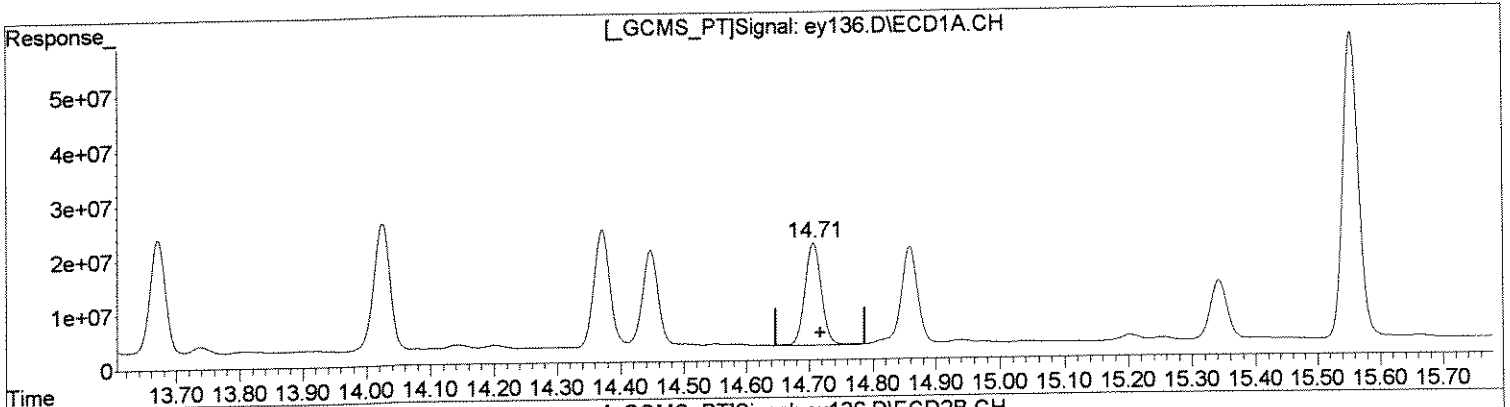
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : ey136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:37 pm
Operator : M.PEDRO
Sample : 1117896 1.0
Misc : 07/01/08 200 ensr 8081 lcsd
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:41 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) beta-Endosul (tc)
14.71min 18.374ug/l
response 341543910

(17) beta-Endosul #2 (tc)
14.65min 19.365ug/l m
response 1243199770

MW
7/17
MW
7/17

(+) = Expected Retention Time

Data Path : J:\ACQUADATA\6890D\DATA\071608\
 Data File : EY136.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 5:37 pm
 Operator : M.PEDRO
 Sample : 1117896 1.0
 Misc : 07/01/08 200 ensr 8081 lcsd
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:41 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	1591.7E6	5917.1E6	78.873	73.123
Spiked Amount	100.000	Range 30 - 150	Recovery =		78.87%	73.12%
5) S SURR2,Decachloro	17.60	17.85	1381.5E6	4583.9E6	79.101	83.229
Spiked Amount	100.000	Range 30 - 150	Recovery =		79.10%	83.23%
Target Compounds						
2) TC HEXACHLORO BENZEN	10.13	10.14	1140.5E6	4595.9E6	38.809	37.816
3) tc alpha-BHC	10.43	10.39	580.7E6	2223.9E6	18.783	18.739
4) tcm gamma-BHC (L	10.96	10.97	546.7E6	2289.4E6	19.382	21.788
5) tcm Heptachlor	11.72	11.63	488.7E6	1754.4E6	17.488	17.481
6) tcm Aldrin	12.18	12.11	390.1E6	1434.3E6	15.757	15.746
7) tc beta-BHC	11.12	11.12	285.7E6	959.2E6	24.883	21.254
8) tc delta-BHC	11.39	11.56	494.7E6	1859.3E6	18.187	18.009
9) tc Heptachlor E	13.09	12.95	424.7E6	1724.4E6	18.660	21.449
0) tc alpha-Endosu	13.67	13.51	386.2E6	1399.8E6	18.876	19.722
1) tc gamma-Chlord	13.27	13.22	412.9E6	1622.3E6	18.835	19.777
2) tc alpha-Chlord	13.47	13.43	405.8E6	1445.1E6	18.973	18.606
3) tc 4,4'-DDE	13.57	13.67	382.1E6	1515.8E6	17.541	19.775
4) tcm Dieldrin	14.02	13.90	431.9E6	1688.9E6	18.906	21.585
5) tcm Endrin	14.37	14.34	390.1E6	1369.2E6	18.826	20.327
6) tc KEPONE	14.45	0.00	331.2E6	0	45.271	N.D. #
7) tc beta-Endosul	14.71	14.65	341.5E6	1370.5E6	18.374	21.348
8) tc 4,4'-DDD	14.45	14.49	331.2E6	1248.2E6	18.406	20.055
9) tcm 4,4'-DDT	14.86	14.95	336.4E6	1247.8E6	17.577	19.049
0) tc Endrin Aldeh	15.34	15.15	204.2E6	772.0E6	13.909	15.739
1) tc Endosulfan S	15.98	15.56	307.4E6	1094.8E6	18.250	19.158
2) tc Methoxychlor	15.55	15.92	990.0E6	3344.8E6	106.301	115.128
3) tc FAMPUR	0.00	15.67	0	1384144	N.D.	0.033 #
4) tc Endrin Keton	16.37	16.31	366.6E6	1225.7E6	18.932	19.539
6) L8C Toxaphene	0.00	14.79	0	39876033	N.D.	20.609 #
7) L8C Toxaphene{2}	0.00	15.08	0	24792696	N.D.	27.481 #
8) L8C Toxaphene{3}	0.00	15.15	0	772.0E6	N.D.	412.954 #

Data Path : J:\ACQUDATA\6890D\DATA\071608\
 Data File : EY136.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 16 Jul 2008 5:37 pm
 Operator : M.PEDRO
 Sample : 1117896 1.0
 Misc : 07/01/08 200 ensr 8081 lcsd
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 17 06:57:41 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jul 11 13:38:39 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

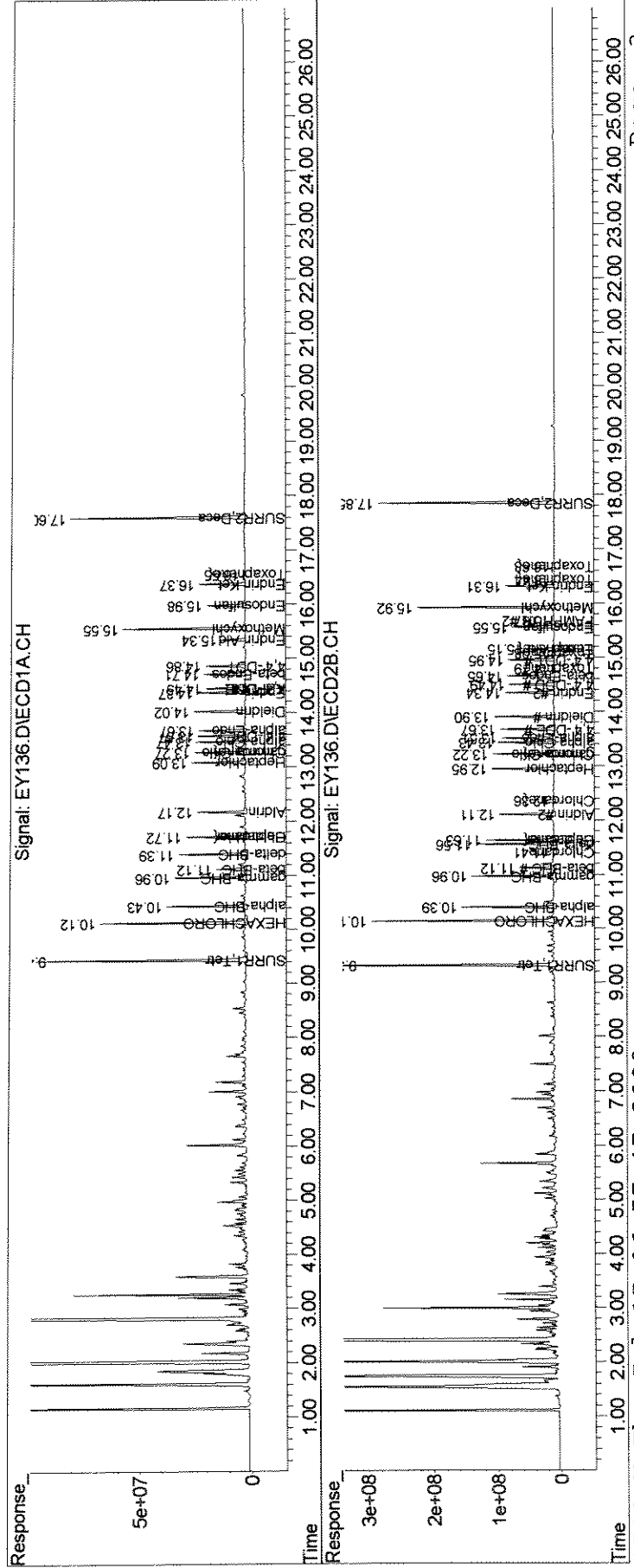
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
29) L8C Toxaphene {4}	0.00	16.44	0	5466523	N.D.	2.838 #
30) L8C Toxaphene {5}	16.55	16.68	11435189	11896877	17.180	5.273 #
Sum Toxaphene			11435189	854.0E6	17.180	469.155
Average Toxaphene					17.180	93.831
31) L9C Chlordane	0.00	11.41	0	197.8E6	N.D.	61.165 #
32) L9C Chlordane {2}	11.72	11.63	488.7E6	1754.4E6	433.799	389.905
33) L9C Chlordane {3}	0.00	12.36	0	112.4E6	N.D.	31.392 #
34) L9C Chlordane {4}	13.27	13.22	412.9E6	1622.3E6	149.259	161.888
Sum Chlordane			901.6E6	3686.8E6	583.058	644.349
Average Chlordane					291.529	161.087

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071608\
Data File : EY136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Jul 2008 5:37 pm
Operator : M.PEDRO
Sample : 1117896 1.0
Misc : 07/01/08 200 ensr 8081 lcsd
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 06:57:41 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01746

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 09/02/08

Project Reference:
Client Sample ID : MATRIX SPIKE

Date Sampled : Order #: 1113458 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/28/08			
DATE ANALYZED : 07/01/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.049	0.082	UG/L
ALPHA-BHC	0.049	0.10	UG/L
BETA-BHC	0.049	0.081	UG/L
GAMMA-BHC	0.049	0.22	UG/L
DELTA-BHC	0.049	0.087	UG/L
ALPHA-CHLORDANE	0.049	0.068	UG/L
GAMMA-CHLORDANE	0.049	0.090	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.049	0.073	UG/L
4,4'-DDT	0.049	0.079	UG/L
DIELDRIN	0.097	0.086 J	UG/L
ALPHA-ENDOSULFAN	0.049	0.080	UG/L
BETA-ENDOSULFAN	0.097	0.088 J	UG/L
ENDOSULFAN SULFATE	0.097	0.084 J	UG/L
ENDRIN	0.049	0.090	UG/L
ENDRIN ALDEHYDE	0.097	0.026 J	UG/L
ENDRIN KETONE	0.097	0.084 J	UG/L
HEPTACHLOR	0.049	0.10	UG/L
HEPTACHLOR EPOXIDE	0.049	0.096	UG/L
HEXACHLOROBENZENE	0.049	0.20	UG/L
METHOXYCHLOR	0.49	0.46 J	UG/L
4,4'-TDE (DDD)	0.049	0.075	UG/L
TOXAPHENE	0.97	0.97 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	88	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	81	%

01741

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex935.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 2:06 am
 Operator : M.PEDRO
 Sample : 1113458 1.
 Misc : 06/28/08 206 ensr r44650 8081 ms
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:37:15 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1520.1E6	4648.8E6	80.716	76.189
Spiked Amount	100.000	Range 30 - 150	Recovery =		80.72%	76.19%
25) S SURR2,Decachloro	17.39	17.46	1504.4E6	3405.1E6	88.078	78.009
Spiked Amount	100.000	Range 30 - 150	Recovery =		88.08%	78.01%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1124.5E6	3138.2E6	41.394	35.663
3) tc alpha-BHC	10.26	10.09	620.1E6	1913.5E6	20.650	20.694
4) tcm gamma-BHC (L	10.79	10.65	1250.6E6	3571.5E6	45.493	43.472
5) tcm Heptachlor	11.53	11.31	551.8E6	1532.3E6	20.508	19.187
6) tcm Aldrin	11.99	11.77	380.3E6	1262.3E6	15.453	16.842
7) tc beta-BHC	10.96	10.82	187.2E6	594.8E6	16.213m	16.673m
8) tc delta-BHC	11.23	11.25	497.8E6	1267.9E6	17.999	15.259
9) tc Heptachlor E	12.89	12.60	458.3E6	1014.2E6	19.891	15.093
10) tc alpha-Endosu	13.47	13.14	340.9E6	977.8E6	16.547	16.409
11) tc gamma-Chlord	13.08	12.87	424.3E6	1081.1E6	18.617	15.505
12) tc alpha-Chlord	13.27	13.07	313.8E6	938.1E6	14.044	14.124
13) tc 4,4'-DDE	13.38	13.32	325.6E6	985.9E6	14.481	15.126
14) tcm Dieldrin	13.81	13.53	409.4E6	1157.8E6	17.584	17.743
15) tcm Endrin	14.16	13.96	385.6E6	931.7E6	18.484	16.427
17) tc beta-Endosul	14.49	14.26	299.5E6	997.7E6	15.235	18.192
18) tc 4,4'-DDD	14.24	14.13	291.0E6	746.6E6	15.471	14.461
19) tcm 4,4'-DDT	14.65	14.57	327.4E6	847.8E6	16.344	15.470
20) tc Endrin Aldeh	15.12	14.75	59474127	215.3E6	4.024	5.352 #
21) tc Endosulfan S	15.76	15.15	312.2E6	771.4E6	17.214	15.541
22) tc Methoxychlor	15.34	15.54	933.5E6	2267.0E6	94.577	94.007
24) tc Endrin Keton	16.16	15.91	363.7E6	881.1E6	17.418	16.276
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex935.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 2:06 am
 Operator : M.PEDRO
 Sample : 1113458 1.
 Misc : 06/28/08 206 ensr r44650 8081 ms
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:37:15 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

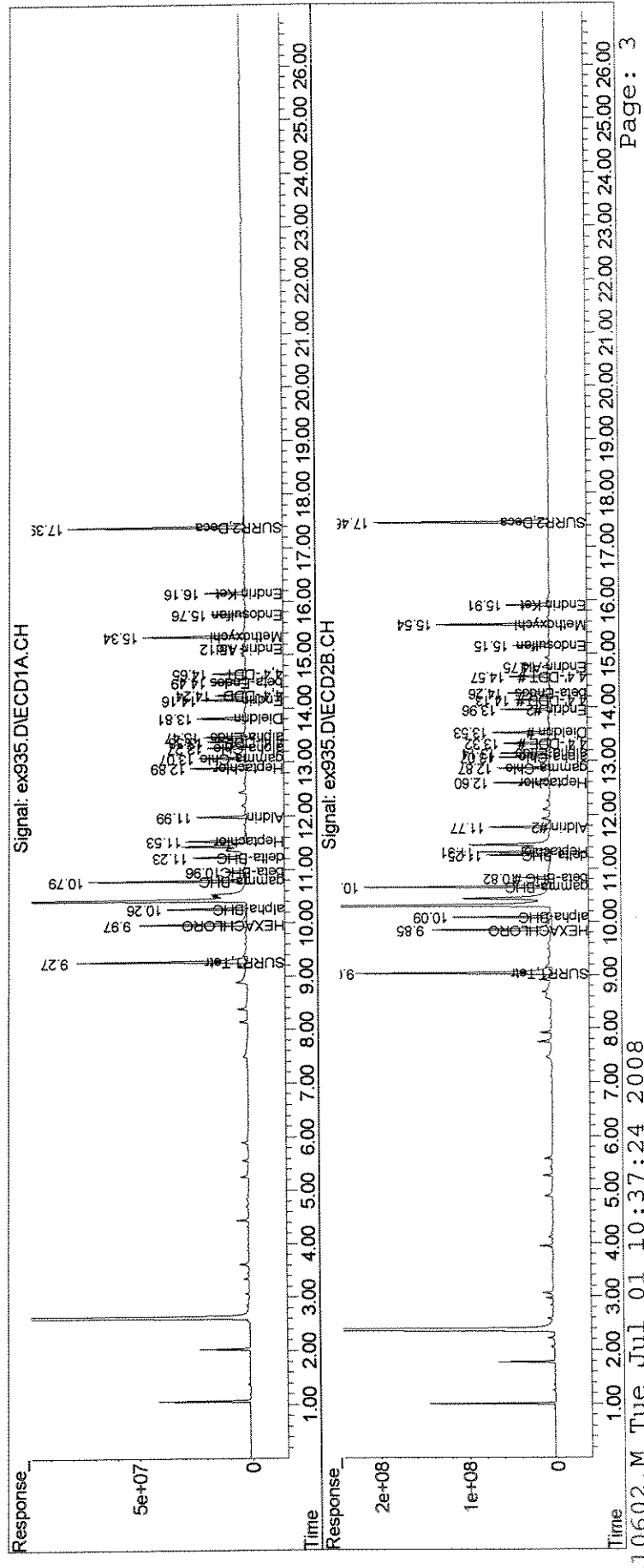
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\063008\
Data File : ex935.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 2:06 am
Operator : M.PEDRO
Sample : 1113458 1.
Misc : 06/28/08 206 ensr r44650 8081 ms
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 10:37:15 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



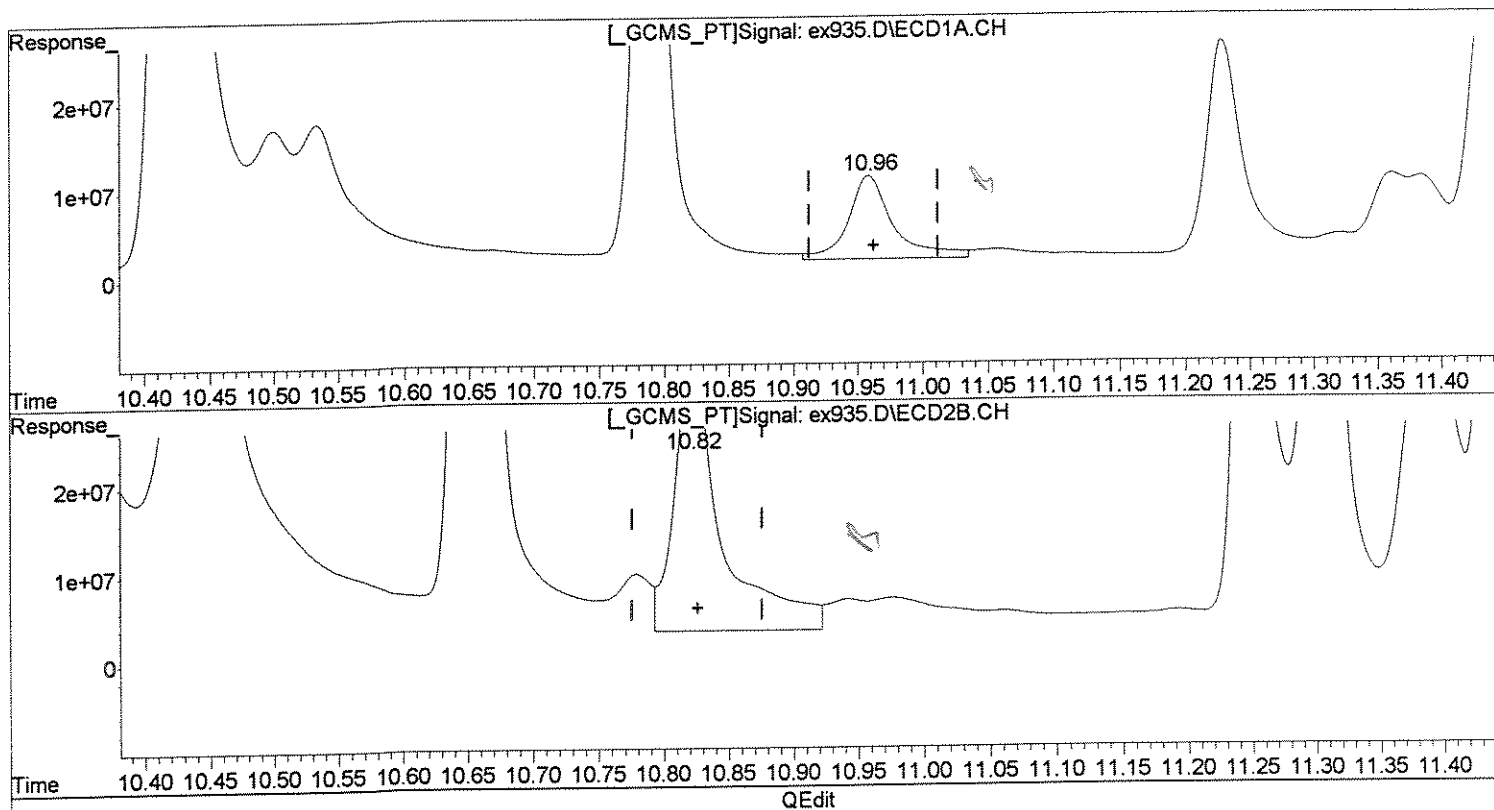
01744

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex935.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 2:06 am
Operator : M.PEDRO
Sample : 1113458 1.
Misc : 06/28/08 206 ensr r44650 8081 ms
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:08:05 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
10.96min 19.736ug/l
response 227861158

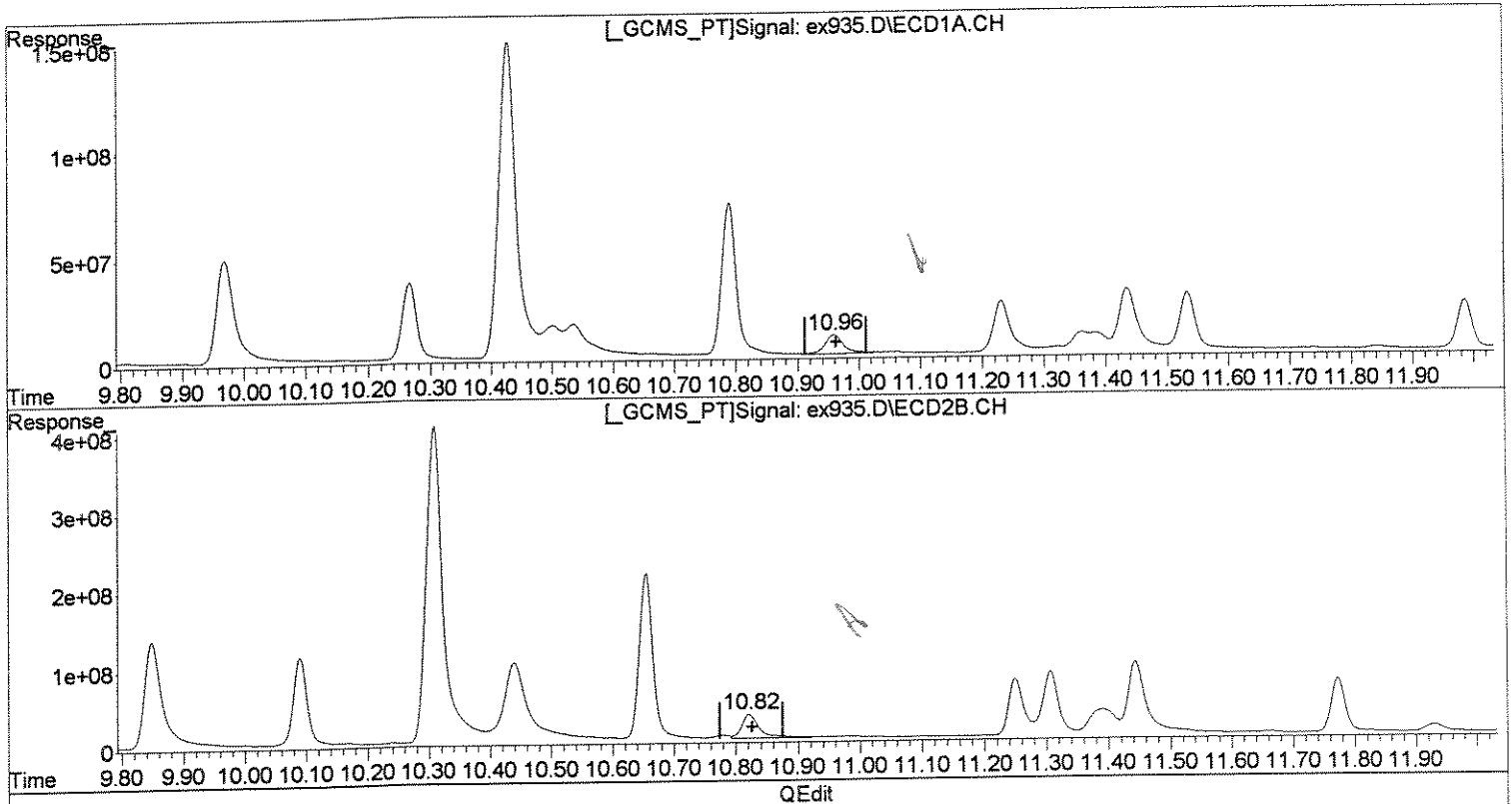
(7) beta-BHC #2 (tc)
10.82min 21.952ug/l
response 783092713

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex935.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 2:06 am
Operator : M.PEDRO
Sample : 1113458 1.
Misc : 06/28/08 206 ensr r44650 8081 ms
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:08:05 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
10.96min 16.213ug/l m
response 187183783

(7) beta-BHC #2 (tc)
10.82min 16.673ug/l m
response 594779562

Handwritten notes:
10.96
10.82

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX935.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 2:06 am
 Operator : M.PEDRO
 Sample : 1113458 1.
 Misc : 06/28/08 206 ensr r44650 8081 ms
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:08:05 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1520.1E6	4648.8E6	80.716	76.189
Spiked Amount	100.000	Range	30 - 150	Recovery	= 80.72%	76.19%
25) S SURR2,Decachloro	17.39	17.46	1504.4E6	3405.1E6	88.078	78.009
Spiked Amount	100.000	Range	30 - 150	Recovery	= 88.08%	78.01%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1124.5E6	3138.2E6	41.394	35.663
3) tc alpha-BHC	10.26	10.09	620.1E6	1913.5E6	20.650	20.694
4) tcm gamma-BHC (L	10.79	10.65	1250.6E6	3571.5E6	45.493	43.472
5) tcm Heptachlor	11.53	11.31	551.8E6	1532.3E6	20.508	19.187
6) tcm Aldrin	11.99	11.77	380.3E6	1262.3E6	15.453	16.842
7) tc beta-BHC	10.96	10.82	227.9E6	783.1E6	19.736	21.952
8) tc delta-BHC	11.23	11.25	497.8E6	1267.9E6	17.999	15.259
9) tc Heptachlor E	12.89	12.60	458.3E6	1014.2E6	19.891	15.093
10) tc alpha-Endosu	13.47	13.14	340.9E6	977.8E6	16.547	16.409
11) tc gamma-Chlord	13.08	12.87	424.3E6	1081.1E6	18.617	15.505
12) tc alpha-Chlord	13.27	13.07	313.8E6	938.1E6	14.044	14.124
13) tc 4,4'-DDE	13.38	13.32	325.6E6	985.9E6	14.481	15.126
14) tcm Dieldrin	13.81	13.53	409.4E6	1157.8E6	17.584	17.743
15) tcm Endrin	14.16	13.96	385.6E6	931.7E6	18.484	16.427
16) tc KEPONE	14.24	0.00	291.0E6	0	46.498	N.D. #
17) tc beta-Endosul	14.49	14.26	299.5E6	997.7E6	15.235	18.192
18) tc 4,4'-DDD	14.24	14.13	291.0E6	746.6E6	15.471	14.461
19) tcm 4,4'-DDT	14.65	14.57	327.4E6	847.8E6	16.344	15.470
20) tc Endrin Aldeh	15.12	14.75	59474127	215.3E6	4.024	5.352 #
21) tc Endosulfan S	15.76	15.15	312.2E6	771.4E6	17.214	15.541
22) tc Methoxychlor	15.34	15.54	933.5E6	2267.0E6	94.577	94.007
23) tc FAMPHUR	0.00	15.32	0	45487460	N.D.	1.431 #
24) tc Endrin Keton	16.16	15.91	363.7E6	881.1E6	17.418	16.276
26) L8C Toxaphene	0.00	14.41	0	9519706	N.D.	5.810 #
27) L8C Toxaphene{2}	0.00	14.70	0	17950408	N.D.	23.334 #
28) L8C Toxaphene{3}	0.00	14.80	0	85216634	N.D.	51.581 #

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX935.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 2:06 am
 Operator : M.PEDRO
 Sample : 1113458 1.
 Misc : 06/28/08 206 ensr r44650 8081 ms
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:08:05 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

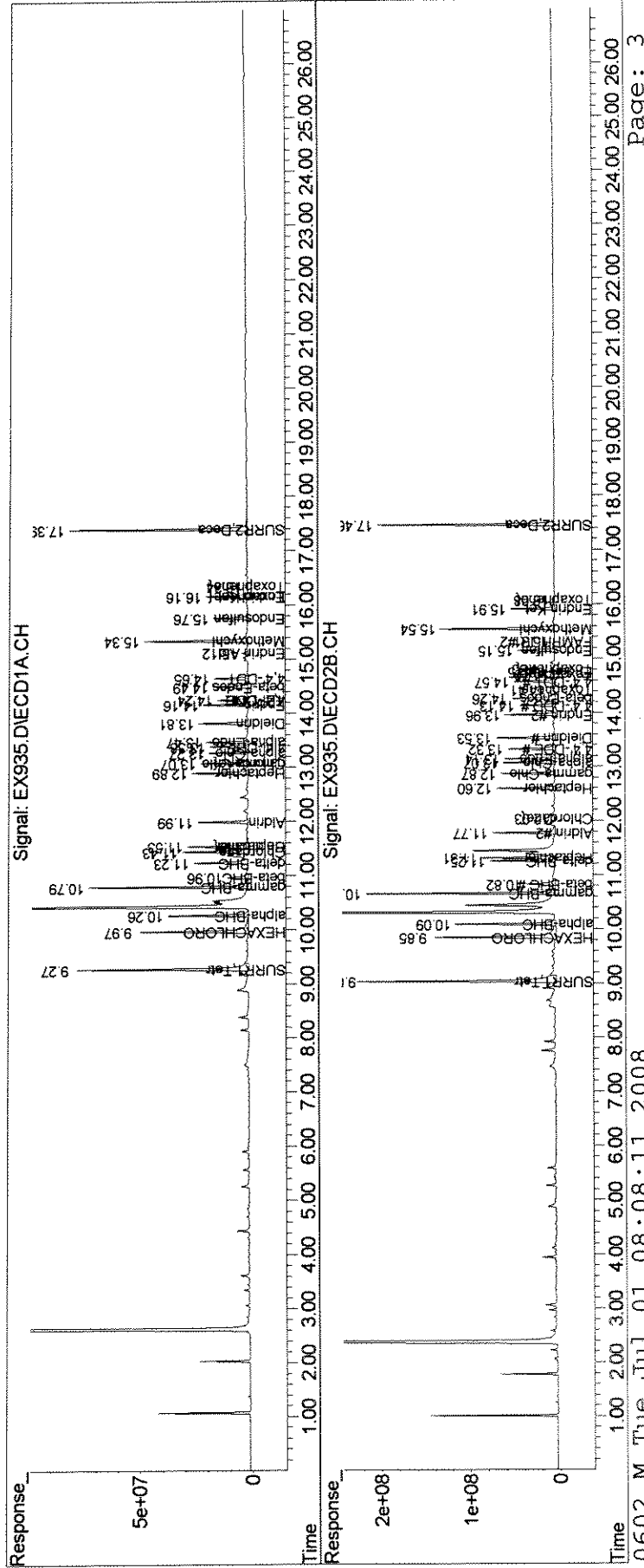
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
29) L8C Toxaphene {4}	16.16	16.08	363.7E6	48470490	409.210	29.799 #
30) L8C Toxaphene {5}	16.34	0.00	22682389	0	33.596	N.D. #
Sum Toxaphene			386.4E6	161.2E6	442.805	110.524
Average Toxaphene					221.403	27.631
31) L9C Chlordane	11.44	0.00	638.9E6	0	834.881	N.D. #
32) L9C Chlordane {2}	11.53	0.00	551.8E6	0	507.380	N.D. #
33) L9C Chlordane {3}	0.00	12.03	0	44624250	N.D.	16.073 #
34) L9C Chlordane {4}	13.08	0.00	424.3E6	0	155.031	N.D. #
Sum Chlordane			1615.0E6	44624250	1497.291	16.073
Average Chlordane					499.097	16.073

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX935.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 2:06 am
Operator : M.PEDRO
Sample : 1113458 1.
Misc : 06/28/08 206 ensr r44650 8081 ms
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:08:05 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



01740

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 09/02/08

Project Reference:
 Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled :	Order #: 1113459	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/28/08		
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.049	0.076	UG/L
ALPHA-BHC	0.049	0.096	UG/L
BETA-BHC	0.049	0.077	UG/L
GAMMA-BHC	0.049	0.21	UG/L
DELTA-BHC	0.049	0.089	UG/L
ALPHA-CHLORDANE	0.049	0.062	UG/L
GAMMA-CHLORDANE	0.049	0.089	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.049	0.065	UG/L
4,4'-DDT	0.049	0.071	UG/L
DIELDRIN	0.097	0.080 J	UG/L
ALPHA-ENDOSULFAN	0.049	0.076	UG/L
BETA-ENDOSULFAN	0.097	0.082 J	UG/L
ENDOSULFAN SULFATE	0.097	0.076 J	UG/L
ENDRIN	0.049	0.085	UG/L
ENDRIN ALDEHYDE	0.097	0.030 J	UG/L
ENDRIN KETONE	0.097	0.082 J	UG/L
HEPTACHLOR	0.049	0.098	UG/L
HEPTACHLOR EPOXIDE	0.049	0.097	UG/L
HEXACHLOROBENZENE	0.049	0.19	UG/L
METHOXYCHLOR	0.49	0.42 J	UG/L
4,4'-TDE (DDD)	0.049	0.070	UG/L
TOXAPHENE	0.97	0.97 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	79	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	71	%

01750

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex936.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 2:41 am
 Operator : M.PEDRO
 Sample : 1113459 1.
 Misc : 06/28/08 206 ensr r44650 8081 msd
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:39:59 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

1) S SURR1,Tetrac	9.27	9.04	1336.6E6	4073.6E6	70.968	66.762
Spiked Amount	100.000	Range	30 - 150	Recovery =	70.97%	66.76%
5) S SURR2,Decachloro	17.39	17.46	1342.3E6	3040.8E6	78.589	69.663
Spiked Amount	100.000	Range	30 - 150	Recovery =	78.59%	69.66%

Target Compounds

2) TC HEXACHLORO BENZEN	9.97	9.85	1049.5E6	2636.7E6	38.634	29.964
3) tc alpha-BHC	10.26	10.09	596.5E6	1752.4E6	19.864	18.952
4) tcm gamma-BHC (L	10.79	10.65	1179.6E6	3311.0E6	42.912	40.301
5) tcm Heptachlor	11.53	11.31	546.3E6	1343.2E6	20.302	16.819
6) tcm Aldrin	11.98	11.77	366.8E6	1167.7E6	14.901	15.581
7) tc beta-BHC	10.96	10.82	167.4E6	564.3E6	14.503m	15.818m
8) tc delta-BHC	11.23	11.25	506.6E6	1160.5E6	18.317	13.966
9) tc Heptachlor E	12.89	12.59	461.1E6	810.7E6	20.012	12.065 #
0) tc alpha-Endosu	13.47	13.14	322.8E6	919.1E6	15.668	15.424
1) tc gamma-Chlord	13.07	12.87	417.2E6	970.6E6	18.305	13.920
2) tc alpha-Chlord	13.27	13.07	284.7E6	851.7E6	12.740	12.824
3) tc 4,4'-DDE	13.38	13.32	291.0E6	870.8E6	12.943	13.360
4) tcm Dieldrin	13.81	13.53	382.5E6	1047.8E6	16.426	16.057
5) tcm Endrin	14.16	13.96	363.5E6	837.4E6	17.427	14.764
7) tc beta-Endosul	14.49	14.26	280.8E6	932.1E6	14.282	16.994
8) tc 4,4'-DDD	14.24	14.13	271.7E6	677.1E6	14.446	13.115
9) tcm 4,4'-DDT	14.65	14.57	294.1E6	748.7E6	14.682	13.663
20) tc Endrin Aldeh	15.11	14.75	67026563	248.8E6	4.535	6.185 #
21) tc Endosulfan S	15.76	15.15	284.8E6	725.5E6	15.700	14.618
22) tc Methoxychlor	15.34	15.54	855.9E6	2082.2E6	86.714	86.341
23) tc FAMPHUR	0.00	15.32	0	16061542	N.D.	0.505 #
24) tc Endrin Keton	16.16	15.91	351.6E6	830.5E6	16.838	15.341
27) L8C Toxaphene {2}	0.00	14.70	0	16168542	N.D.	21.017 #
28) L8C Toxaphene {3}	0.00	14.80	0	98654982	N.D.	59.715 #
29) L8C Toxaphene {4}	16.16	16.08	351.6E6	31897479	395.564	19.610 #
30) L8C Toxaphene {5}	16.34	0.00	33351784	0	49.398	N.D. #

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex936.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 2:41 am
 Operator : M.PEDRO
 Sample : 1113459 1.
 Misc : 06/28/08 206 ensr r44650 8081 msd
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:39:59 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

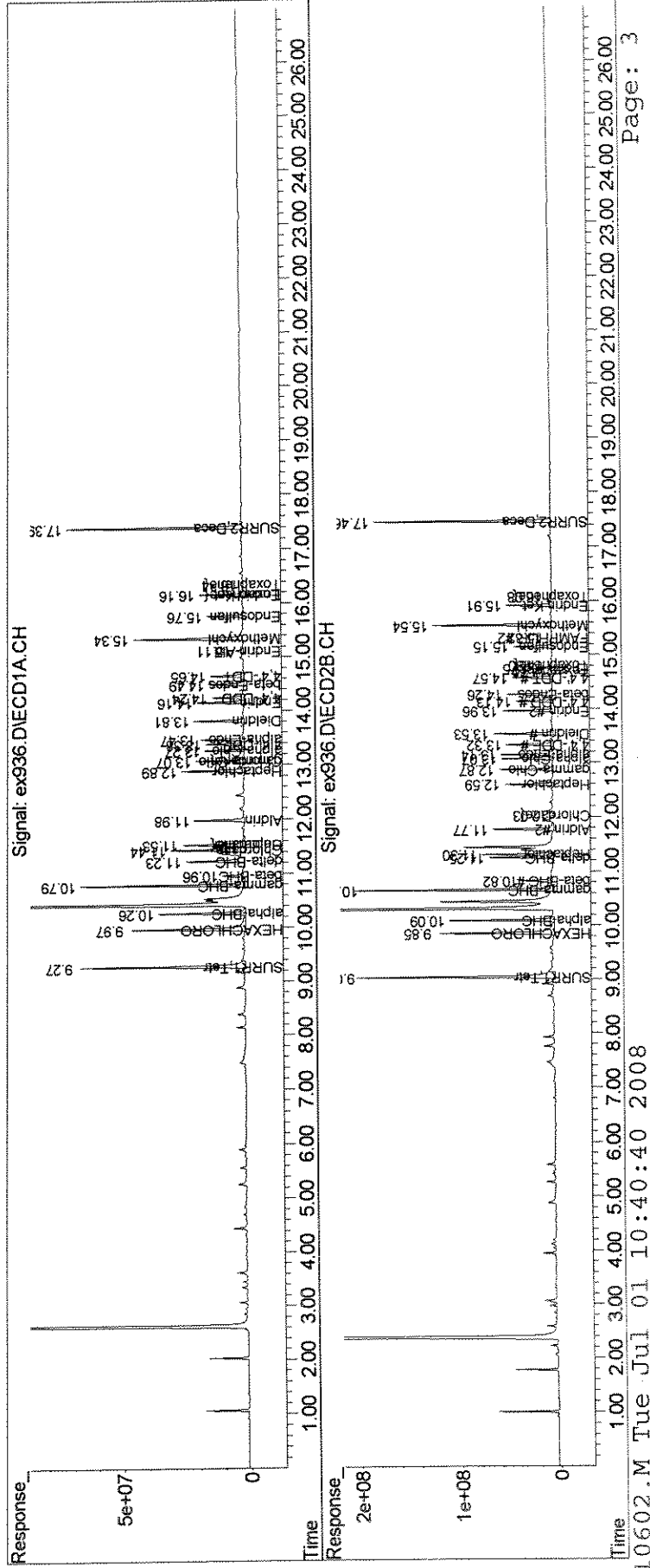
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum Toxaphene			385.0E6	146.7E6	444.962	100.343
Average Toxaphene					222.481	33.448
1) L9C Chlordane	11.44	0.00	633.4E6	0	827.660	N.D. #
2) L9C Chlordane {2}	11.53	0.00	546.3E6	0	502.287	N.D. #
3) L9C Chlordane {3}	0.00	12.03	0	44740007	N.D.	16.115 #
4) L9C Chlordane {4}	13.07	0.00	417.2E6	0	152.436	N.D. #
Sum Chlordane			1596.8E6	44740007	1482.384	16.115
Average Chlordane					494.128	16.115

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\063008\
 Data File : ex936.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 2:41 am
 Operator : M.PEDRO
 Sample : 1113459 1.
 Misc : 06/28/08 206 ensr r44650 8081 msd
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 10:39:59 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

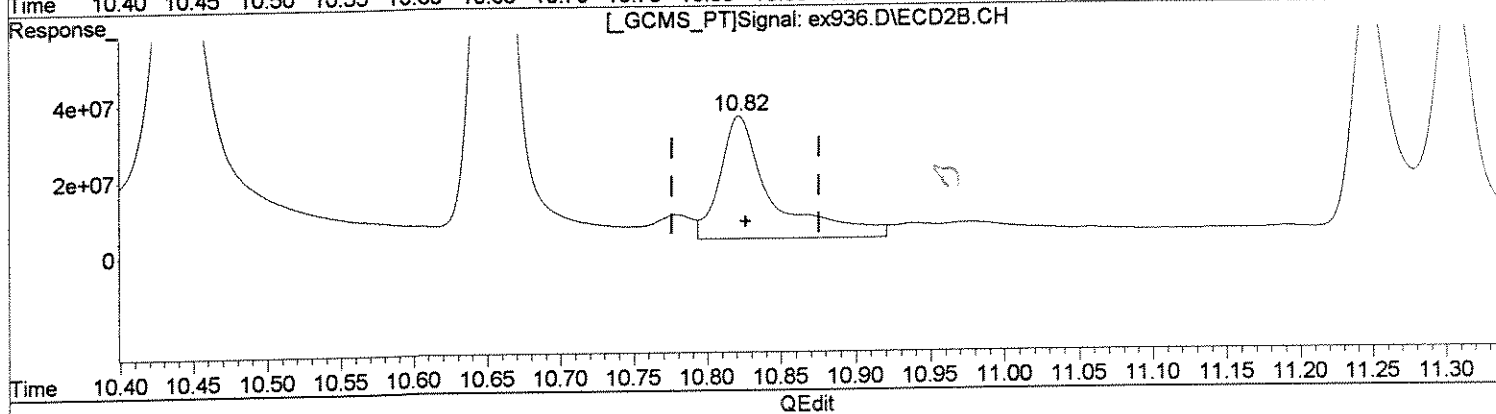
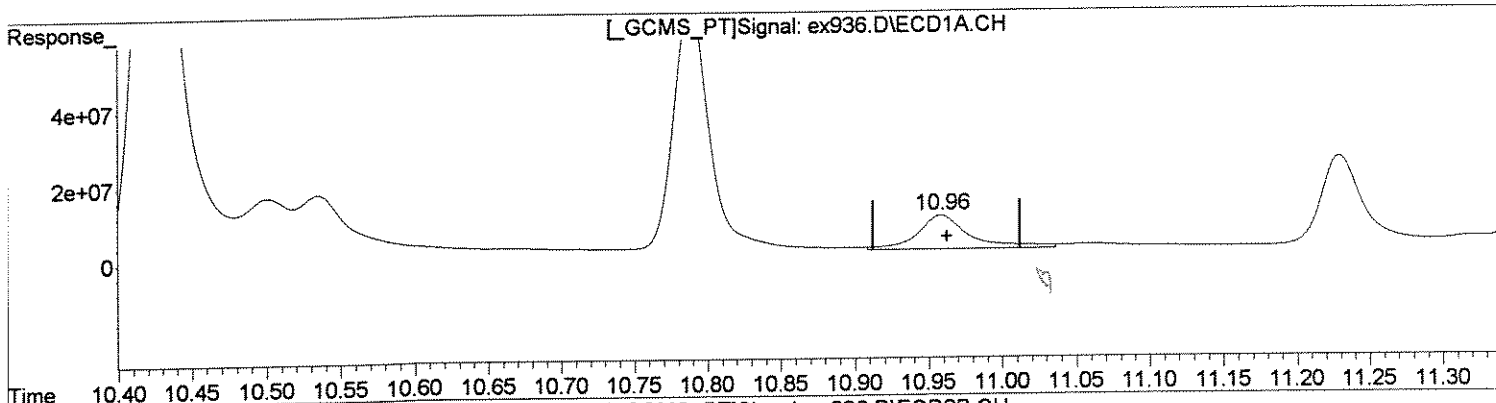


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 2:41 am
Operator : M.PEDRO
Sample : 1113459 1.
Misc : 06/28/08 206 ensr r44650 8081 msd
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:08:13 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)
10.96min 19.684ug/l
response 227258468

(7) beta-BHC #2 (tc)
10.82min 21.980ug/l
response 784074810

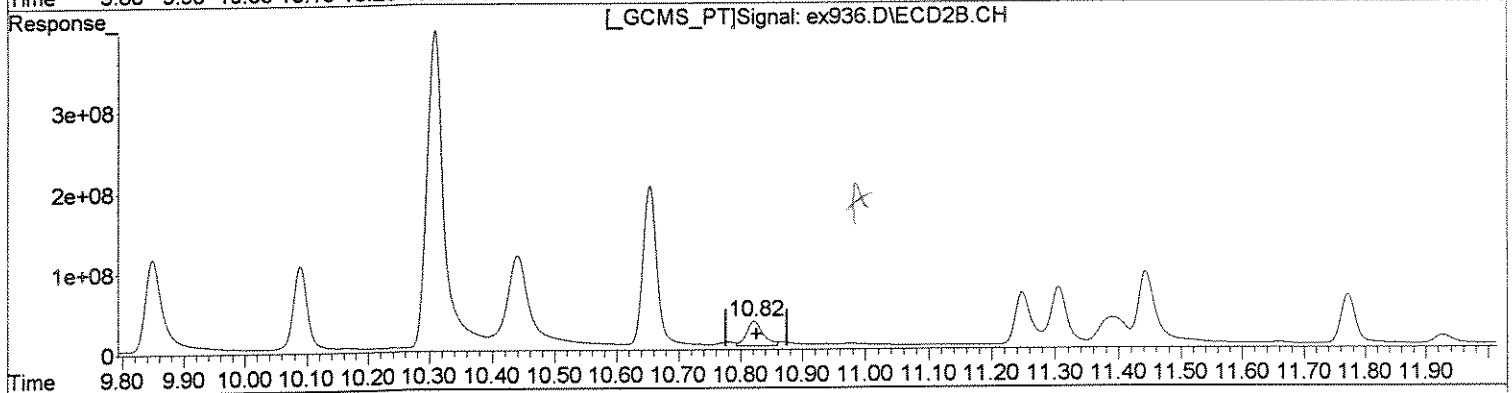
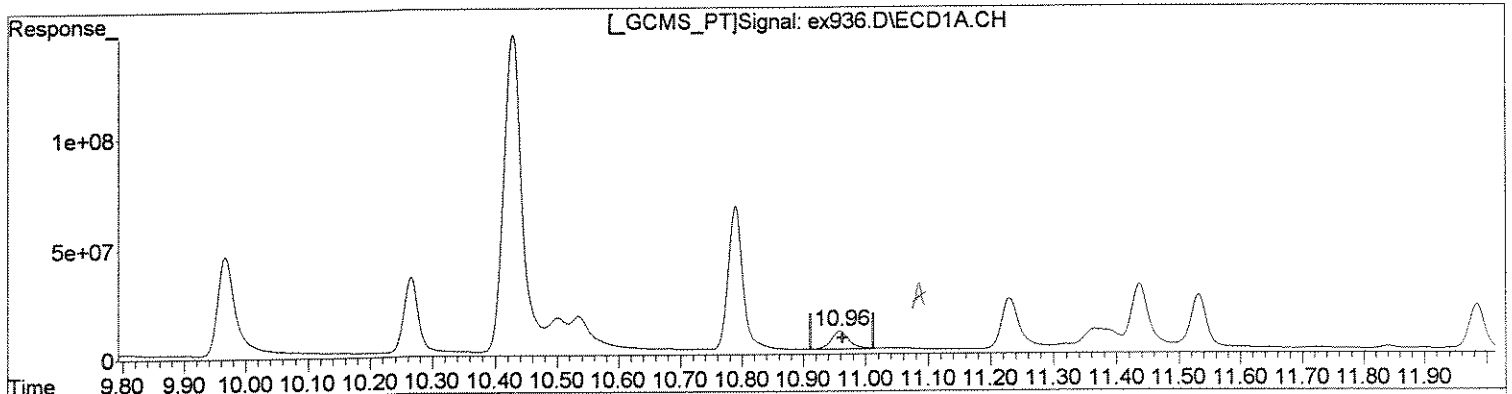
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 2:41 am
Operator : M.PEDRO
Sample : 1113459 1.
Misc : 06/28/08 206 ensr r44650 8081 msd
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 10:39:59 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(7) beta-BHC (tc)
10.96min 14.503ug/l m
response 167439245

WJ
7/1

MW
7/1

(7) beta-BHC #2 (tc)
10.82min 15.818ug/l m
response 564257829

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX936.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 2:41 am
 Operator : M.PEDRO
 Sample : 1113459 1.
 Misc : 06/28/08 206 ensr r44650 8081 msd
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:08:13 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1336.6E6	4073.6E6	70.968	66.762
Spiked Amount	100.000	Range 30 - 150	Recovery =		70.97%	66.76%
25) S SURR2,Decachloro	17.39	17.46	1342.3E6	3040.8E6	78.589	69.663
Spiked Amount	100.000	Range 30 - 150	Recovery =		78.59%	69.66%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1049.5E6	2636.7E6	38.634	29.964
3) tc alpha-BHC	10.26	10.09	596.5E6	1752.4E6	19.864	18.952
4) tcm gamma-BHC (L	10.79	10.65	1179.6E6	3311.0E6	42.912	40.301
5) tcm Heptachlor	11.53	11.31	546.3E6	1343.2E6	20.302	16.819
6) tcm Aldrin	11.98	11.77	366.8E6	1167.7E6	14.901	15.581
7) tc beta-BHC	10.96	10.82	227.3E6	784.1E6	19.684	21.980
8) tc delta-BHC	11.23	11.25	506.6E6	1160.5E6	18.317	13.966
9) tc Heptachlor E	12.89	12.59	461.1E6	810.7E6	20.012	12.065 #
10) tc alpha-Endosu	13.47	13.14	322.8E6	919.1E6	15.668	15.424
11) tc gamma-Chlord	13.07	12.87	417.2E6	970.6E6	18.305	13.920
12) tc alpha-Chlord	13.27	13.07	284.7E6	851.7E6	12.740	12.824
13) tc 4,4'-DDE	13.38	13.32	291.0E6	870.8E6	12.943	13.360
14) tcm Dieldrin	13.81	13.53	382.5E6	1047.8E6	16.426	16.057
15) tcm Endrin	14.16	13.96	363.5E6	837.4E6	17.427	14.764
16) tc KEPONE	14.24	0.00	271.7E6	0	43.419	N.D. #
17) tc beta-Endosul	14.49	14.26	280.8E6	932.1E6	14.282	16.994
18) tc 4,4'-DDD	14.24	14.13	271.7E6	677.1E6	14.446	13.115
19) tcm 4,4'-DDT	14.65	14.57	294.1E6	748.7E6	14.682	13.663
20) tc Endrin Aldeh	15.11	14.75	67026563	248.8E6	4.535	6.185 #
21) tc Endosulfan S	15.76	15.15	284.8E6	725.5E6	15.700	14.618
22) tc Methoxychlor	15.34	15.54	855.9E6	2082.2E6	86.714	86.341
23) tc FAMPHUR	0.00	15.32	0	16061542	N.D.	0.505 #
24) tc Endrin Keton	16.16	15.91	351.6E6	830.5E6	16.838	15.341
27) L8C Toxaphene {2}	0.00	14.70	0	16168542	N.D.	21.017 #
28) L8C Toxaphene {3}	0.00	14.80	0	98654982	N.D.	59.715 #
29) L8C Toxaphene {4}	16.16	16.08	351.6E6	31897479	395.564	19.610 #



Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX936.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 01 Jul 2008 2:41 am
 Operator : M.PEDRO
 Sample : 1113459 1.
 Misc : 06/28/08 206 ensr r44650 8081 msd
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:08:13 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

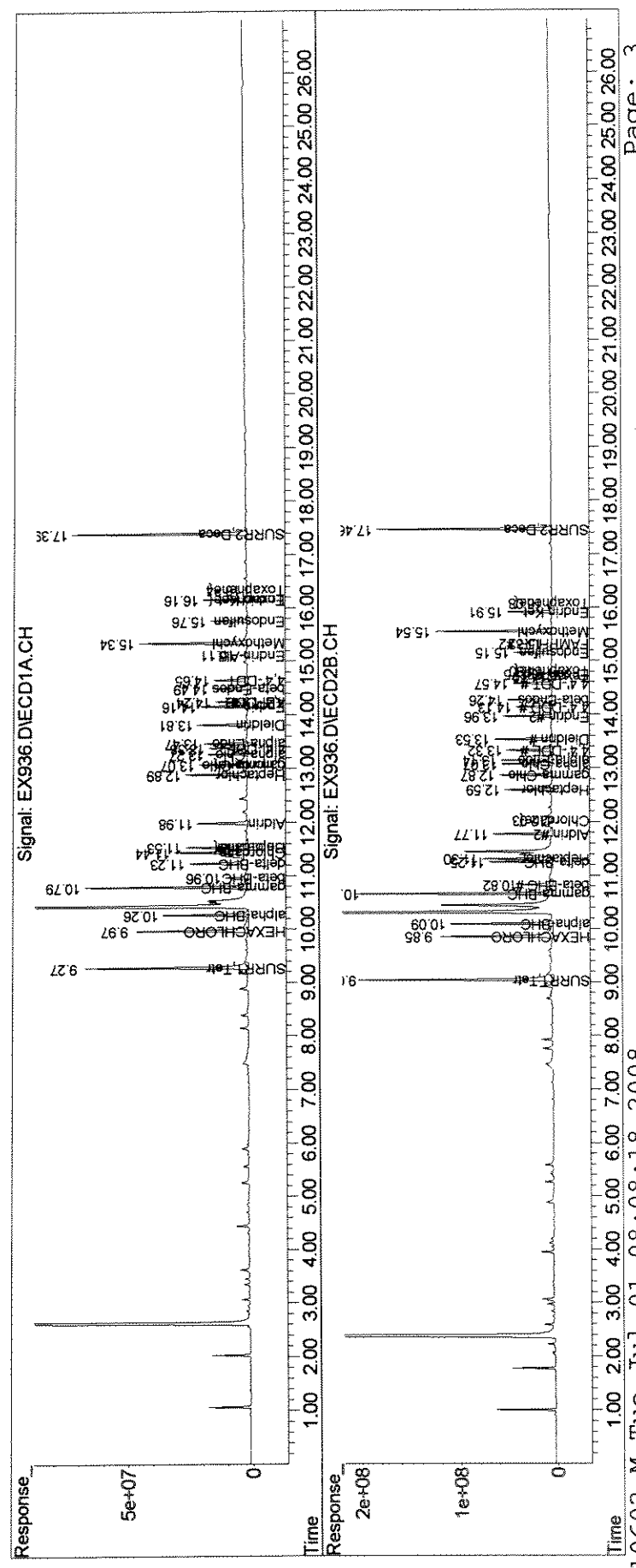
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
30) L8C Toxaphene{5}	16.34	0.00	33351784	0	49.398	N.D.	#
Sum Toxaphene			385.0E6	146.7E6	444.962	100.343	
Average Toxaphene					222.481	33.448	
31) L9C Chlordane	11.44	0.00	633.4E6	0	827.660	N.D.	#
32) L9C Chlordane{2}	11.53	0.00	546.3E6	0	502.287	N.D.	#
33) L9C Chlordane{3}	0.00	12.03	0	44740007	N.D.	16.115	#
34) L9C Chlordane{4}	13.07	0.00	417.2E6	0	152.436	N.D.	#
Sum Chlordane			1596.8E6	44740007	1482.384	16.115	
Average Chlordane					494.128	16.115	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2008 2:41 am
Operator : M.PEDRO
Sample : 1113459 1.
Misc : 06/28/08 206 ensr r44650 8081 msd
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:08:13 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



1084

Run 140150

Extraction Tech: AK
 Extraction Date: 6/27/2008
 Concentration Tech: LED
 40 Day HT: 8/6/2008
 Spiked By: AK
 Spk Witness: LED
 Prep Method: 3540C 3510C 3580A
 3550B 3520C
 Key: **COLUMBIA ANALYTICAL SERVICES - ROCHESTER, NY**
 Color: C = Colorless; Y = Yellow; B = Brown; BL = Black; G = Grey
 Clarity: CLR = Clear; CDY = Cloudy; OP = Opaque
 Soils: F = Fine/Sand; M = Medium/Soil; C = Coarse/Rocks
 Batch ID: E062708A
 Prep ID: _____

Client / Sub. #	Order #	Initial Wt. (g) / Initial Vol. (ml)	Appearance (see Key)	Analysis (Test) Requested	pH (Water) rec'd adjusted	Conc. Date	Final Vol (ml)	Date Complete	Comments/ Emissions
1113455	•• BLK •	1000	C-CA	8081A.NEVA	7	6/30	5ML	6/30	1/2ML SURR/SPIKE
1113450	•• LCS •	1000	f	8081A.NEVA	7		5ML		
1113457	•• LCSD •	1000	f	8081A.NEVA	7		5ML		
R44538	•• 111265 •	1060	f	8081A.NEVA	7		5ML		
R44650	•• 111266 •	1060	f	8081A.NEVA	7		5ML		REEXTRACT
	•• 1112486 •	1060	f	8081A.NEVA	7		5ML		
	•• 1112487 •	1060	f	8081A.NEVA	7		5ML		
	•• 1112488 •	1060	f	8081A.NEVA	7		5ML		
	•• 1112489 •	1060	f	8081A.NEVA	7		5ML		
	•• 1112809 •	1090	f	8081A.NEVA	7		5ML		
	•• 1112810 •	1000	f		7				
	•• 1112811 •	1060	f		7				
	•• 1112812 •	1060	f		7				
	•• 1112871 •	1090	f		7				
	•• 1112872 •	1090	f		7				
	•• 1112874 MS	1090	f		7				
1113158	•• 1112574 MS	1090	f		7				
1113159	•• 1112574 MS	1090	f		7				

Spikes: 8081/8082 PCB oil Surrogate
 8151 water/soil Surrogate
 95-3 Surrogate
 PCB Spike
 LCS/LCSD, 808 Spike
 MS/MSD had 8081 TCLP Spike
 Spike added) 8151 water/soil Spike
 Other: _____
 Solvents: 50:50 Ace:MeCl2 Lot # _____
 MeCl2 Lot # _____
 Acetone Lot # _____
 Hexane Lot # 0-344-37-0
 Ether Lot # _____
 Sodium Sulfate Lot # 0-344-86-3
 Sulfuric Acid Lot # _____
 Sodium Hydroxide Lot # _____
 Other: _____
 Clean-Ups: Q-579-198-B
 8081 Florisil(3520B) By/Date _____
 8082 Hg(3660B) By/Date 6/30/08 Lot# 0-344-37-f
 8081/8082 Cu/TBA(3660B) By/Date _____ Lot# _____
 8082 Ac(3665A) By/Date _____ Lot# _____
 8081/8082 GPC(3640A) By/Date _____ Lot# _____
 Method Summary:
 1000 mls sample extracted with 60mls MeCl2 3x at neutral pH for 2 min.

01750

540104021

Extraction Tech: 7/1/2008
Extraction Date: LFD
Concentration Tech: 8/10/2008
40 Day HT: LFD

Spiked By: LFD
Spk Witness: LFD

Prep Method: 3540C 3510C 3580A
 3550B 3520C

Batch ID: E070108E
Prep ID:

COLUMBIA ANALYTICAL SERVICES - ROCHESTER, NY
 Color: C = Colorless, Y = Yellow, B = Brown, BL = Black, G = Grey
 Clarity: CLR = Clear, CDY = Cloudy, OP = Opaque
 Solis: F = Fine/Sand, M = Medium/Soil, C = Coarse/Rocks

Client / Sub. #	Order #	Initial Wt. (g) / Initial Vol. (ml)	Appearance (see Key)	Analysis (Test) Requested	pH (Water) rec'd adjusted	Conc. Date	Final Vol (ml)	Date Complete	Comments/ Emulsions
1117894	• BLK	1000	C-20	8081A.NEVA	7	5/2	5 ml	7/8	1/2 ml surr. spike
1117895	• LCS	1000		8081A.NEVA	7		5 ml		
1117896	• LCSD	1000		8081A.NEVA	7		5 ml		
R44650	• 1113426	1030	7-CDY	8081A.NEVA	7		5 ml		NO Sample DC
	• 1113427	1030		8081A.NEVA	7		5 ml		
	• 1113428	1050		8081A.NEVA	7		5 ml		
	• 1113429	1060		8081A.NEVA	7		5 ml		
	• 1113430	920		8081A.NEVA	7		5 ml		
R44708	• 1113495	1060	C-20		7				
	• 1113496	1090			7				
	• 1113497	1090			7				
	• 1113498	1090			7				
	• 1113499	1060			7				

Spikes:
 80818082
 PCB oil Surrogate
 8151 water/soil Surr
 95-3 Surrogate
 PCB Spike
 808 Spike
 8081TCLP Spike
 8151 water/soil Spike
 95-3 Spike
 Other:

(All samples had Surrogate added; LCS/LCSD, MS/MSD had Spike added)

Clean-Ups:
 8081 Floris(3620B) ByDate _____ Lot# _____
 8081/8082 Hg(3660B) ByDate 7/2/08 Lot# 0-344-37-f
 8081/8082 CuTBA(3660B) ByDate _____ Lot# _____
 8082 Acid(3665A) ByDate _____ Lot# _____
 8081/8082 GPC(3640A) ByDate _____ Lot# _____

Method Summary:
 1000 mls sample extracted with 60mls MeCl2 3x at neutral pH for 2 min.

Solvents:
 50:50 Ace:MeCl2 Lot# _____
 MeCl2 Lot# _____
 Acetone Lot# _____

Hexane Lot# 0-344-37-0
 Ether Lot# _____
 Sodium Sulfate Lot# 0-375-86-4
 Sulfuric Acid Lot# _____
 Sodium Hydroxide Lot# _____
 Other: Lot# _____

29

- 38 yPE
- 9 yC
- 0 yC
- 11 yMB
- 12 yA
- 13 yQ
- 14 y
- 15 y
- 16 y
- 17 y
- 18 y
- 19 y
- 20 yPE
- 21 yCC
- 22 yCC
- 23 yMB
- 24 yQ
- 25 yQ
- 26 y
- 27 y
- 28 y
- 29 y
- 30 y
- 31 yCC
- 32 yCC
- 33 y
- 34 y
- 35 y
- 36 y
- 37 y
- 38 y
- 39 y
- 40 y
- 41 y
- 42 y
- 43 y
- 44 y
- 45 y
- 46 y
- 47 y
- 48 y
- 49 y
- 50 y
- 51 y
- 52 y
- 53 y
- 54 y
- 55 y
- 56 y
- 57 y
- 58 y
- 59 y
- 60 y
- 61 y
- 62 y
- 63 y
- 64 y
- 65 y
- 66 y
- 67 y
- 68 y
- 69 y
- 70 y
- 71 y
- 72 y
- 73 y
- 74 y
- 75 y
- 76 y
- 77 y
- 78 y
- 79 y
- 80 y
- 81 y
- 82 y
- 83 y
- 84 y
- 85 y
- 86 y
- 87 y
- 88 y
- 89 y
- 90 y
- 91 y
- 92 y
- 93 y
- 94 y
- 95 y
- 96 y
- 97 y
- 98 y
- 99 y
- 100 y

W/20/08

Pem 0-559-150F
 CCV27a 152H
 CCV27b 203C
 R-4453E 1110532 20.
 1111245 1.0
 1111246 1.0
 1111267 1.0
 1111703 1.0
 1111704 1.0
 1111705 1.0
 1112005 1.0
 1112006 1.0
 1112007 1.0
 1112528 BIA
 CCV28a 0-559-152H
 CCV28b 203C
 1112523 BIA
 1112524 LCA
 1112527 LCA
 R-44503 1109355
 1109350
 R-44577 1110337
 1112526 MS
 1112527 USD
 R-44538 1110981
 1111264
 CCV29a 0-559-152H
 CCV29b 203C
 BIL Neutral
 2 ↓
 3 Acid
 4 ↓
 5 Base
 6 ↓

5081

6590D

8810002.M

Migrated

- 871 yPE
- 872 yCC
- 873 yCC
- 874 y
- 875 Reextract
- 876 b
- 877 y
- 878 y
- 879 y
- 880 Repro
- 881 y
- 882 y
- 883 y
- 884 y
- 885 yCC
- 886 yCC
- 887 yMB
- 888 yQ
- 889 yQ
- 890 y
- 891 y
- 892 y
- 893 some low
- 894 yQ
- 895 DEB ↓
- 896 y
- 897 yCC
- 898 yCC
- 899 OK
- 900
- 901
- 902
- 903
- 904

End of 215%

10/20/60

508 W59100

M. Lea

Exclosure EX 905 YPE

Perm
CCV 30a
CCV 30b

0-559-196F
152H
203C

111765 50.0

1110404 Blk soil

1110405 LCS

1110406 LCSD

1113455 Blk ^{watermark} soil 10/30

1113450 LCS

1113457 LCSD

████ R-44538
↓

1111265 1.0

1111266 1.0

CCV 31a
CCV 31b

0-559-192H

↓ 203C

████ K-44660

1112484 1.0

1112487 1.0

1112488 1.0

1112489 1.0

1112809 1.0

1112810 1.0

1112811 1.0

1112812 1.0

1112871 1.0

1112872 1.0

CCV 32a

0-559-152H

CCV 32b

↓ 203C

Perm

↓ 196F

CCV 33a

↓ 152H

CCV 33b

↓ 203C

████ K-44660

1112874 1.0

1113456 MS 1.0

1113459 MSO 1.0

CCV 34a

0-559-152H

CCV 34b

↓ 203C

████ K-44660

1109385 1.0

1109386 1.0

1109387 1.0

1109388 1.0

1109389 1.0

1109409 1.0 MS

Some Low

906 ycc

907 ycc

908 y

909 yms

910 y R

911 y

912 yms

913 y R

914 y R

915 y Rpt 1/2

916 y

917 ycc

918 ycc

919 Rpt 1/20

920 Rpt 1/20

921 y

922 Rpt 1/10

923 Rpt 1/10

924 Rpt 1/10

925 1/10

926 y

927 y

928 y

929 ycc

Endos + B.C.

930 ycc

931 y R

932 ycc

Endos + B.C.

933 ycc

934 y

935 y R

936 y R

937 ycc

Endos + B.C.

938 ycc

939 y

940 y

941 y

942 y

943 y

944 y 5004

4/20/00

8091 689100

MSD Peak

~~1110408~~ R-4424

1110408 1.0 USD

809102m

945 sm +

↓

1109419 1.0

Hexane

↓

946 Y

947 Y

948 Y

CCU35

0-559-1524

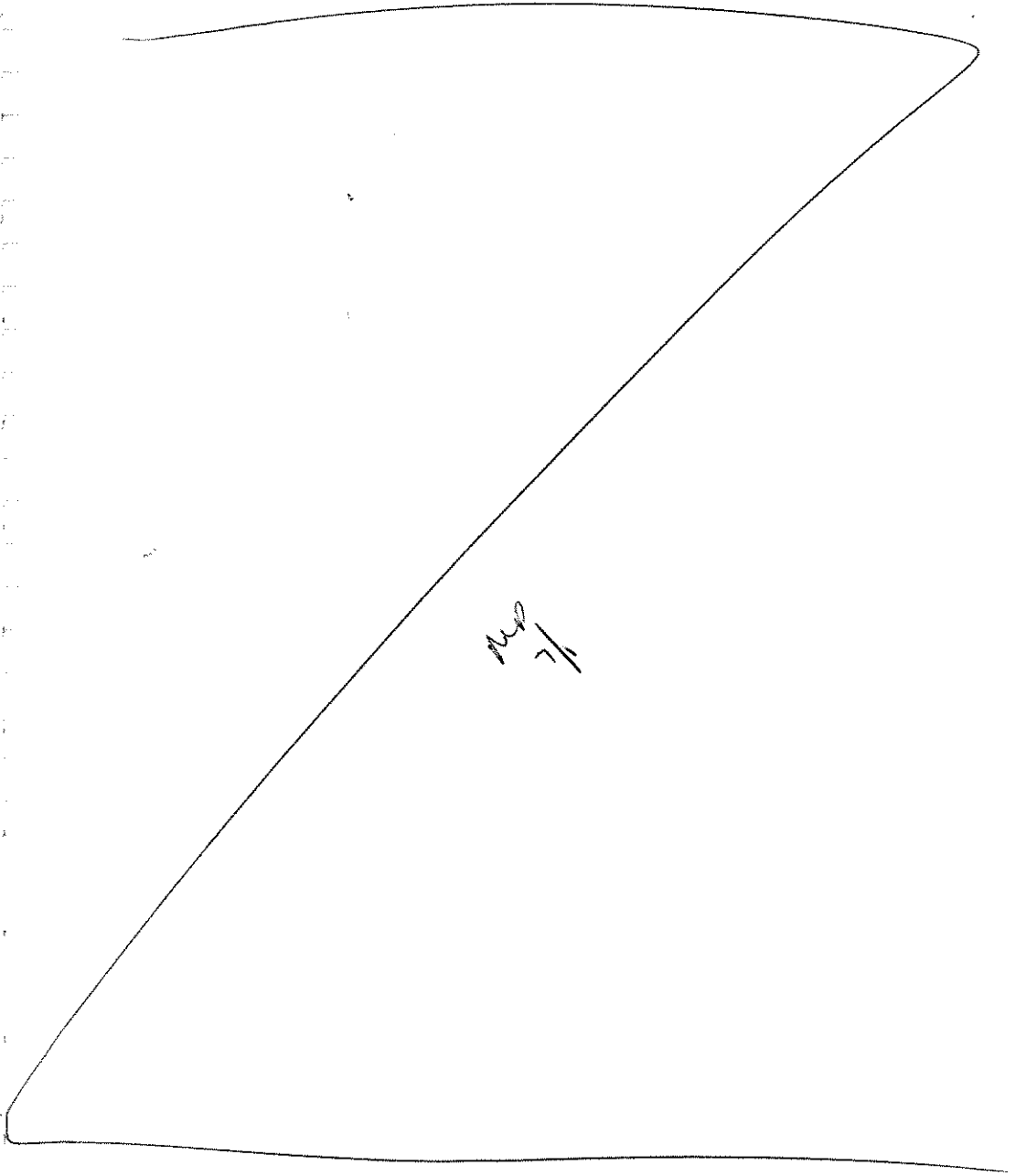
CCU350

↓ 20C

↓

949 ↓

950 ↓



7/10/08

1006/5051 109100

MCS Pea

Rem 0-559-190F
 PIBM 165J
 INOAL 209E
 ML H
 M G
 mH F
 H E
 INOBL 205E
 ML O
 M C
 mH B
 H A
 Kept fam L 169A
 ML B
 M C
 mH O
 H E
 Kept fam ICV 1760 m 1/11
 tox L 176 B
 ML 176 E m 1/11
 M 176 F
 mH 176 G
 H 176 H
 Chln L 176 I
 ML 176 J
 M 176 K
 mH 176 L
 H 176 M
 8081 Ia 170A m 1/11
 Tox ICV 177 A
 Chln ICV 177 B
 Pem 0-559-190F
 Cw 1a 209G
 Cw 1b 209B
 R-44338 111205 2.0
 R-44650 111486 20.
 111487 10
 111488 89 10.
 111489 89 10.
 111490 111809 10.
 10

30810710.11 8p 034 y
 035 y
 036 y
 037 y
 038 y
 039 y
 040 y
 041 y
 042 y
 043 y
 044 y
 045 y
 046 y
 047 y
 048 y
 049 y
 050 y
 051 y
 052 y
 053 y
 054 y
 055 y
 056 y
 057 y
 058 y
 059 y
 060 y
 061 y
 062 y
 063 y
 064 y
 065 y
 066 y
 067 y
 068 y
 069 m 1/11
 070 y
 071 m 1/20
 072 y
 073 y

redom
616
410

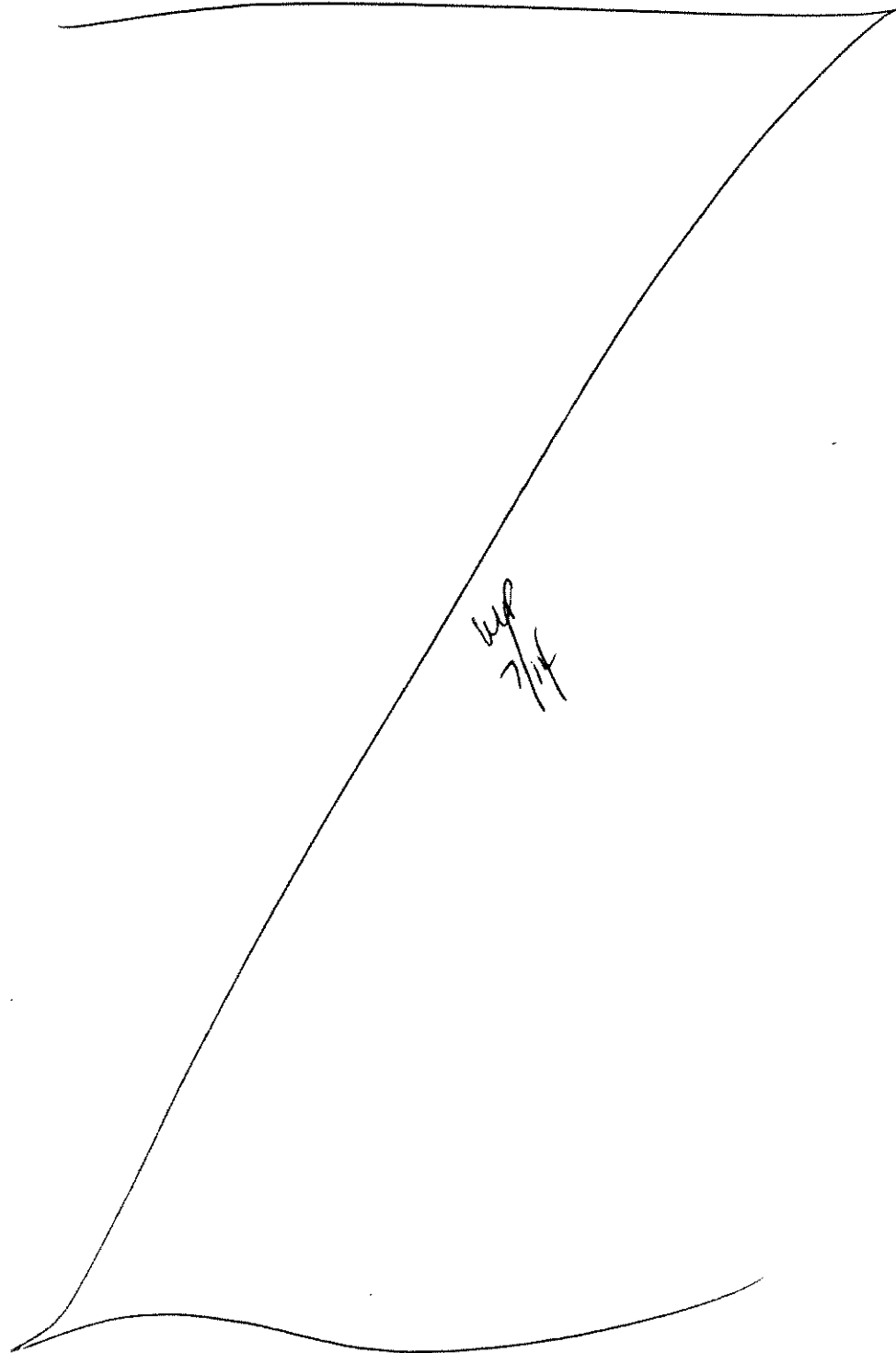
7/14/08

606/80231
111480 11 10.
111480 20

689107

~~1020~~
2/074 y
075 y
076 y
077 y
078 y

hexano
CW2a
CW2b



NOTED
07074 Y
075 Y
076 Y
077 YCC
078 YLL

7/14/06

60515051 605900
6056710.M

NOTED

REM 196F
 CCW3a 2096
 CCW3b 203B
 BIK 1.0
 LLS 1.0
 LCSO 1.0
 R-44852 1115464 1.0
 ↓ 1115464 RE
 R-44854 1115460 1.0
 R-44866 1115782 1.0
 ↓ 1115783 1.0
 ↓ 1115784 1.0
 ↓ 1115785 1.0
 CCW4a 0-559-196F 2096
 CCW4b 2096 203B
 R-44864 1116373 1.0
 ↓ 1116370
 ↓ ~~1117307~~ MS 1117249 MSD
 ↓ 1117249 MS
 ↓ 1117249 MSD 1116367
 ↓ 1117246 BIK
 ↓ 111486 50.0
 ↓ 1117348 / 1117345 BIK
 ↓ 1117349 / 1117346 MS
 ↓ 1117350 / 1117347 490
 CCW5a 0-559-2096
 CCW5b ↓ 203B
 1115481
 1115724
 1115732
 1115730
 1115731
 1115736
 11157351 MS
 1117352 MSD
 1115737
 REMANE
 CCW6a
 CCW6b
 REM 196F
 ↓ 203B
 ↓ 196F

2051-2009 B.C.

SWIFT ↓

SWIFT ↓

24079 YPE
 080 YCC
 081 YCC
 082 YHB
 083 YR
 084 YR
 085 Y
 086 Y
 087 Y
 088 Y
 089 Y
 090 Y
 091 Y
 092 YCC
 093 YCC
 094 Y
 095 Y
 096 YR
 097 YR
 098 Y
 099 YHB
 100 Y
 101 YHB
 102 YR
 103 YR
 104 YCC
 105 YR
 106 Y
 107 Y
 108 Y RPTSD
 109 Y SWIFT
 110 Y
 111 Y
 112 YR
 113 YR
 114 Y
 115 Y
 116 YCC
 117 YCC
 118 YPE

7/16

6081/2081

688101

Hughes P&A

8081 0710.M

EX 119 V&B

Rem 196F
 CCV 7a 209E
 CCV 7b 203C
 [redacted] R. 1115732 50.0
 [redacted] 44649 1117897 BK
 1117898 LS
 1117899 LCSD
 111236 1.0
 11173249 10
 1117900 BK
 1117901 LS
 1117902 LCSD
 1113245 10
 CCV 8a 0.559-209F
 CCV 8b ↓ 203B

120 V&B
 121 V&B
 122 V
 123 V&B
 124 Vial transferred
 125 V
 126 V
 127 Rpt 100
 128 V&B
 129 V&B
 130 V&B
 131 V
 132 V&B
 133 V&B

[redacted]
 1117894 BK
 1117895 LCS
 1117896 LCSD
 [redacted] 44650 1113426 1.0
 1113427 1.0
 1113428 1.0
 1113429 1.0
 1113430 1.0

134
 135 V&B
 136 V&B
 137 136 V&B
 138 137 V
 139 136 V
 140 139 V
 141 140 V
 142 141 V
 143 142 V

[redacted] 44708 1113695 1.0
 1113696 1.0
 CCV 9a 0.559-209F
 CCV 9b 203B
 Rem 196F
 [redacted] 44708 1113697 1.0
 1113698 1.0
 1113699 1.0
 CCV 10a 0.559-209F
 CCV 10b ↓ 203B

144 143 Rpt 100
 145 144 VCC
 146 145 VCC
 147 146 V&B
 148 147 V
 149 148 V
 150 149 V
 151 150 VCC
 152 151 VCC
 153 152

GENERAL CHEMISTRY DATA

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-44B

Date Sampled : 06/24/08 09:10 Order #: 1112065 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	79.3	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	2.27	MG/L	07/11/08	02:12	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	1420	MG/L	07/08/08	21:50	400.0
CONDUCTIVITY	120.1		9200	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.821	MG/L	07/16/08	22:10	20.0
NITRATE NITROGEN	9056	0.0500	60.0	MG/L	06/25/08	13:56	40.0
NITRITE NITROGEN	9056	0.05	0.995	MG/L	06/25/08	13:41	10.0
PH	9040	1.00	7.50	S.U.	06/25/08	10:50	1.0
SULFATE	9056	0.200	2330	MG/L	07/08/08	21:50	400.0
SURFACTANTS	SM5540C	0.0200	1.17	MG/L	06/26/08	08:00	4.0
TOTAL ALKALINITY	SM2320B	2.00	79.3	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0326	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	8310	MG/L	06/26/08	13:00	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.32	MG/L	07/12/08	01:16	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.39	MG/L	07/12/08	01:25	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.43	MG/L	07/12/08	01:35	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.43	MG/L	07/12/08	01:44	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	2.39	MG/L	07/12/08	01:16	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/02/08	08:44	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.90	MG/L	06/27/08	14:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : H-49AB

Date Sampled : 06/24/08 09:00

Order #: 1112066

Sample Matrix: WATER

Date Received: 06/25/08

Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.104	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	90.3	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	1.07	MG/L	07/11/08	02:26	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	3150	MG/L	07/08/08	22:04	400.0
CONDUCTIVITY	120.1		13300	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	12:27	10.0
NITRATE NITROGEN	9056	0.0500	13.3	MG/L	06/25/08	14:24	10.0
NITRITE NITROGEN	9056	0.05	2.00 U	MG/L	06/25/08	15:07	40.0
PH	9040	1.00	7.44	S.U.	06/25/08	17:15	1.0
SULFATE	9056	0.200	2400	MG/L	07/08/08	22:04	400.0
SURFACTANTS	SM5540C	0.0200	1.73	MG/L	06/26/08	08:00	10.0
TOTAL ALKALINITY	SM2320B	2.00	90.3	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0376	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	10800	MG/L	06/26/08	13:00	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.72	MG/L	07/12/08	01:54	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.79	MG/L	07/12/08	02:03	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.86	MG/L	07/12/08	02:12	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.84	MG/L	07/12/08	02:22	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.80	MG/L	07/12/08	01:54	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/02/08	08:44	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	3.20	MG/L	06/27/08	14:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : FB062408GWAREA1

Date Sampled : 06/24/08 12:00 Order #: 1112067 Sample Matrix: WATER
 Date Received: 06/25/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	02:41	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	2.00 U	MG/L	07/08/08	22:18	10.0
CONDUCTIVITY	120.1		1.96	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	12:37	10.0
NITRATE NITROGEN	9056	0.0500	0.500 U	MG/L	06/25/08	16:33	10.0
NITRITE NITROGEN	9056	0.05	0.500 U	MG/L	06/25/08	16:33	10.0
PH	9040	1.00	5.87	S.U.	06/25/08	17:15	1.0
SULFATE	9056	0.200	2.00 U	MG/L	07/08/08	22:18	10.0
SURFACTANTS	SM5540C	0.0200	0.0200 U	MG/L	06/26/08	08:00	1.0
TOTAL ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	10.0 U	MG/L	06/26/08	13:00	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/12/08	02:32	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/12/08	02:41	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/12/08	02:50	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/12/08	03:00	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.00 U	MG/L	07/12/08	02:32	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/02/08	08:44	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	06/27/08	14:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : MC-45B

Date Sampled : 06/25/08 13:00 Order #: 1112486 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	301	MG/L	06/27/08	15:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	04:21	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/27/08	15:00	1.0
CHLORIDE	9056	0.200	4450	MG/L	07/10/08	13:14	1000.0
CONDUCTIVITY	120.1		16300	umhos/cm	07/25/08	11:45	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	12:48	10.0
NITRATE NITROGEN	9056	0.0500	0.939	MG/L	06/26/08	15:28	10.0
NITRITE NITROGEN	9056	0.05	2.00 U	MG/L	06/26/08	17:08	40.0
PH	9040	1.00	7.68	S.U.	06/26/08	13:45	1.0
SULFATE	9056	0.200	1540	MG/L	07/08/08	22:32	400.0
SURFACTANTS	SM5540C	0.0200	1.05	MG/L	06/26/08	08:00	4.0
TOTAL ALKALINITY	SM2320B	2.00	301	MG/L	06/27/08	15:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	11500	MG/L	06/30/08	11:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.84	MG/L	07/12/08	04:25	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.97	MG/L	07/12/08	04:34	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.07	MG/L	07/12/08	04:44	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.09	MG/L	07/12/08	04:53	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.99	MG/L	07/12/08	04:25	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.749	MG/L	07/02/08	08:44	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	06/27/08	14:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-53B

Date Sampled : 06/25/08 12:00 Order #: 1112487 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	236	MG/L	06/27/08	15:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	04:35	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/27/08	15:00	1.0
CHLORIDE	9056	0.200	4050	MG/L	07/10/08	14:24	1000.0
CONDUCTIVITY	120.1		15100	umhos/cm	07/25/08	11:45	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	12:58	10.0
NITRATE NITROGEN	9056	0.0500	1.15	MG/L	06/26/08	15:42	10.0
NITRITE NITROGEN	9056	0.05	5.48	MG/L	06/26/08	17:23	40.0
PH	9040	1.00	7.19	S.U.	06/26/08	13:45	1.0
SULFATE	9056	0.200	1500	MG/L	07/08/08	22:46	400.0
SURFACTANTS	SM5540C	0.0200	0.683	MG/L	06/26/08	08:00	4.0
TOTAL ALKALINITY	SM2320B	2.00	236	MG/L	06/27/08	15:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	11000	MG/L	06/30/08	11:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.82	MG/L	07/12/08	05:03	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.84	MG/L	07/12/08	05:12	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.89	MG/L	07/12/08	05:22	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.00	MG/L	07/12/08	05:31	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.89	MG/L	07/12/08	05:03	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0857	MG/L	07/02/08	08:44	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.42	MG/L	06/27/08	14:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-23B

Date Sampled : 06/25/08 08:00 Order #: 1112488 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	10.2	MG/L	06/27/08	10:35	10.0
BICARBONATE ALKALINITY	SM2320B	2.00	134	MG/L	06/27/08	15:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	04:50	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/27/08	15:00	1.0
CHLORIDE	9056	0.200	845	MG/L	07/08/08	23:57	400.0
CONDUCTIVITY	120.1		6190	umhos/cm	07/25/08	11:45	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.723	MG/L	07/16/08	13:09	10.0
NITRATE NITROGEN	9056	0.0500	53.2	MG/L	06/26/08	17:51	40.0
NITRITE NITROGEN	9056	0.05	5.23	MG/L	06/26/08	16:11	10.0
PH	9040	1.00	7.42	S.U.	06/26/08	13:45	1.0
SULFATE	9056	0.200	1120	MG/L	07/08/08	23:57	400.0
SURFACTANTS	SM5540C	0.0200	1.61	MG/L	06/26/08	08:00	5.0
TOTAL ALKALINITY	SM2320B	2.00	134	MG/L	06/27/08	15:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0358	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	4710	MG/L	06/30/08	11:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.15	MG/L	07/12/08	05:41	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.22	MG/L	07/12/08	05:50	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.29	MG/L	07/12/08	05:59	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.32	MG/L	07/12/08	06:09	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	2.25	MG/L	07/12/08	05:41	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/02/08	08:44	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	06/27/08	14:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-97B

Date Sampled : 06/25/08 09:30 Order #: 1112489 Sample Matrix: WATER
 Date Received: 06/26/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	270	MG/L	06/27/08	15:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	05:04	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/27/08	15:00	1.0
CHLORIDE	9056	0.200	4050	MG/L	07/10/08	15:20	1000.0
CONDUCTIVITY	120.1		15300	umhos/cm	07/25/08	11:45	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	13:19	10.0
NITRATE NITROGEN	9056	0.0500	0.0500 U	MG/L	06/26/08	15:57	1.0
NITRITE NITROGEN	9056	0.05	2.00 U	MG/L	06/26/08	017:3	40.0
PH	9040	1.00	7.44	S.U.	06/26/08	13:45	1.0
SULFATE	9056	0.200	1550	MG/L	07/09/08	00:11	400.0
SURFACTANTS	SM5540C	0.0200	1.07	MG/L	06/26/08	08:00	4.0
TOTAL ALKALINITY	SM2320B	2.00	270	MG/L	06/27/08	15:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	10900	MG/L	06/30/08	11:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.74	MG/L	07/12/08	06:19	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.79	MG/L	07/12/08	06:28	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.92	MG/L	07/12/08	06:37	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.12	MG/L	07/12/08	06:47	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.89	MG/L	07/12/08	06:19	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.286	MG/L	07/02/08	08:44	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	06/27/08	14:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : MC-94B

Date Sampled : 06/25/08 14:31
Date Received: 06/27/08

Order #: 1112809
Submission #: R2844650

Sample Matrix: WATER

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	253	MG/L	06/30/08	09:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	06:30	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/30/08	09:00	1.0
CHLORIDE	9056	0.200	4130	MG/L	07/10/08	15:49	1000.0
CONDUCTIVITY	120.1		1560	umhos/cm	07/25/08	11:45	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	13:29	10.0
NITRATE NITROGEN	9056	0.0500	0.500 U	MG/L	06/27/08	10:51	10.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	06/27/08	11:19	100.0
PH	9040	1.00	7.34	S.U.	06/27/08	16:50	1.0
SULFATE	9056	0.200	1600	MG/L	07/09/08	00:25	400.0
SURFACTANTS	SM5540C	0.0200	1.03	MG/L	06/27/08	10:10	10.0
TOTAL ALKALINITY	SM2320B	2.00	253	MG/L	06/30/08	09:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	11100	MG/L	06/30/08	11:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.87	MG/L	07/12/08	06:56	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.94	MG/L	07/12/08	07:06	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.02	MG/L	07/12/08	07:15	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.04	MG/L	07/12/08	07:24	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.97	MG/L	07/12/08	06:56	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0579	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	34.5	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : MW-16B

Date Sampled : 06/26/08 14:05 Order #: 1112810 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0960	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	84.2	MG/L	06/30/08	09:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	06:44	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/30/08	09:00	1.0
CHLORIDE	9056	0.200	3870	MG/L	07/10/08	16:03	1000.0
CONDUCTIVITY	120.1		13000	umhos/cm	07/25/08	11:45	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	13:40	10.0
NITRATE NITROGEN	9056	0.0500	1.32	MG/L	06/27/08	11:33	10.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	06/27/08	12:02	100.0
PH	9040	1.00	7.21	S.U.	06/27/08	16:50	1.0
SULFATE	9056	0.200	795	MG/L	06/27/08	12:02	100.0
SURFACTANTS	SM5540C	0.0200	0.238	MG/L	06/27/08	10:10	1.0
TOTAL ALKALINITY	SM2320B	2.00	84.2	MG/L	06/30/08	09:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	9880	MG/L	06/30/08	11:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.63	MG/L	07/12/08	07:34	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.80	MG/L	07/12/08	07:44	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.82	MG/L	07/12/08	07:53	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.86	MG/L	07/12/08	08:02	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.78	MG/L	07/12/08	07:34	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	11.9	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-5AB

Date Sampled : 06/26/08 09:10

Order #: 1112811

Sample Matrix: WATER

Date Received: 06/27/08

Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	201	MG/L	06/30/08	09:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	06:58	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/30/08	09:00	1.0
CHLORIDE	9056	0.200	5140	MG/L	07/10/08	16:17	1000.0
CONDUCTIVITY	120.1		16400	umhos/cm	07/25/08	11:45	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	13:50	10.0
NITRATE NITROGEN	9056	0.0500	0.500 U	MG/L	06/27/08	12:16	10.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	06/27/08	13:12	100.0
PH	9040	1.00	7.03	S.U.	06/27/08	16:50	1.0
SULFATE	9056	0.200	864	MG/L	06/27/08	13:24	100.0
SURFACTANTS	SM5540C	0.0200	0.402	MG/L	06/27/08	10:10	1.0
SURFACTANTS	SM5540C	0.0200	0.412	MG/L	07/01/08	08:45	5.0
TOTAL ALKALINITY	SM2320B	2.00	201	MG/L	06/30/08	09:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	11500	MG/L	06/30/08	11:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	17.6	MG/L	07/12/08	08:12	1.0
TOTAL ORGANIC CARBON	9060	1.00	19.3	MG/L	07/12/08	08:21	1.0
TOTAL ORGANIC CARBON	9060	1.00	18.9	MG/L	07/12/08	08:31	1.0
TOTAL ORGANIC CARBON	9060	1.00	19.5	MG/L	07/12/08	08:40	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	18.8	MG/L	07/12/08	08:12	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	6.20	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : EB062608GW3

Date Sampled : 06/26/08 14:00
Date Received: 06/27/08

Order #: 1112812
Submission #: R2844650

Sample Matrix: WATER

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/30/08	09:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	07:13	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/30/08	09:00	1.0
CHLORIDE	9056	0.200	0.478	MG/L	06/27/08	13:26	1.0
CONDUCTIVITY	120.1		4.95	umhos/cm	07/25/08	11:45	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	14:42	10.0
NITRATE NITROGEN	9056	0.0500	0.500 U	MG/L	06/27/08	13:26	10.0
NITRITE NITROGEN	9056	0.05	0.500 U	MG/L	06/27/08	13:26	10.0
PH	9040	1.00	6.17	S.U.	06/27/08	16:50	1.0
SULFATE	9056	0.200	0.200 U	MG/L	06/27/08	13:26	1.0
SURFACTANTS	SM5540C	0.0200	0.0200 U	MG/L	06/27/08	10:10	1.0
TOTAL ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/30/08	09:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	10.0 U	MG/L	06/30/08	11:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/12/08	10:06	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/12/08	10:15	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/12/08	10:24	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/12/08	10:34	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.00 U	MG/L	07/12/08	10:06	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.02 U	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-61B

Date Sampled : 06/26/08 11:00 Order #: 1112871 Sample Matrix: WATER
 Date Received: 06/27/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	1.90	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	114	MG/L	06/30/08	09:00	1.0
BROMIDE	9056	0.100	391	MG/L	06/27/08	19:47	100.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/30/08	09:00	1.0
CHLORIDE	9056	0.200	727	MG/L	07/03/08	03:50	100.0
CONDUCTIVITY	120.1		6580	umhos/cm	07/25/08	11:45	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	1.33	MG/L	07/16/08	14:53	10.0
NITRATE NITROGEN	9056	0.0500	7.90	MG/L	06/27/08	19:19	10.0
NITRITE NITROGEN	9056	0.05	2.00 U	MG/L	06/27/08	19:33	40.0
PH	9040	1.00	7.40	S.U.	06/27/08	16:50	1.0
SULFATE	9056	0.200	2430	MG/L	07/03/08	16:31	1000.0
SURFACTANTS	SM5540C	0.0200	0.402	MG/L	06/27/08	10:10	1.0
SURFACTANTS	SM5540C	0.0200	0.415	MG/L	07/01/08	08:45	4.0
TOTAL ALKALINITY	SM2320B	2.00	114	MG/L	06/30/08	09:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0287	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	5610	MG/L	06/30/08	11:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.34	MG/L	07/12/08	10:44	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.42	MG/L	07/12/08	10:53	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.44	MG/L	07/12/08	11:02	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.54	MG/L	07/12/08	11:12	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.43	MG/L	07/12/08	10:44	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-88BB

Date Sampled : 06/26/08 08:00
Date Received: 06/27/08

Order #: 1112872
Submission #: R2844650

Sample Matrix: WATER

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.372	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	144	MG/L	06/30/08	09:00	1.0
BROMIDE	9056	0.100	300	MG/L	06/27/08	20:57	100.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/30/08	09:00	1.0
CHLORIDE	9056	0.200	1510	MG/L	07/03/08	16:45	1000.0
CONDUCTIVITY	120.1		8320	umhos/cm	07/25/08	11:45	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.894	MG/L	07/16/08	15:03	10.0
NITRATE NITROGEN	9056	0.0500	18.8	MG/L	06/27/08	20:01	10.0
NITRITE NITROGEN	9056	0.05	2.00 U	MG/L	06/27/08	20:15	40.0
PH	9040	1.00	7.51	S.U.	06/27/08	16:50	1.0
SULFATE	9056	0.200	1950	MG/L	07/03/08	16:45	1000.0
SURFACTANTS	SM5540C	0.0200	0.258	MG/L	06/27/08	10:10	1.0
TOTAL ALKALINITY	SM2320B	2.00	144	MG/L	06/30/08	09:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0280	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	5950	MG/L	06/30/08	11:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.31	MG/L	07/12/08	11:21	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.37	MG/L	07/12/08	11:31	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.45	MG/L	07/12/08	11:40	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.43	MG/L	07/12/08	11:49	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.39	MG/L	07/12/08	11:21	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

Client Sample ID : M-7BB

Date Sampled : 06/26/08 09:20

Order #: 1112874

Sample Matrix: WATER

Date Received: 06/27/08

Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	96.0	MG/L	06/30/08	09:00	1.0
BROMIDE	9056	0.100	9.82	MG/L	06/27/08	21:11	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/30/08	09:00	1.0
CHLORIDE	9056	0.200	3890	MG/L	07/03/08	16:59	1000.0
CONDUCTIVITY	120.1		11600	umhos/cm	07/25/08	11:45	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	15:14	10.0
NITRATE NITROGEN	9056	0.0500	1.21	MG/L	06/27/08	21:11	10.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	06/27/08	22:36	100.0
PH	9040	1.00	7.29	S.U.	06/27/08	16:50	1.0
SULFATE	9056	0.200	1440	MG/L	07/03/08	16:59	1000.0
SURFACTANTS	SM5540C	0.0200	0.263	MG/L	06/27/08	10:10	1.0
TOTAL ALKALINITY	SM2320B	2.00	96.0	MG/L	06/30/08	09:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	7750	MG/L	06/30/08	11:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.62	MG/L	07/12/08	13:53	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.62	MG/L	07/12/08	14:02	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.70	MG/L	07/12/08	14:11	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.74	MG/L	07/12/08	14:21	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.67	MG/L	07/12/08	13:53	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	3.10	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-67B

Date Sampled : 06/27/08 07:00 Order #: 1113426 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	144	MG/L	07/01/08	09:07	1.0
BROMIDE	9056	0.100	1.15	MG/L	07/11/08	07:27	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/01/08	09:07	1.0
CHLORIDE	9056	0.200	903	MG/L	07/09/08	01:07	400.0
CONDUCTIVITY	120.1		8140	umhos/cm	07/24/08	14:20	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	6.42	MG/L	07/16/08	15:45	10.0
NITRATE NITROGEN	9056	0.0500	9.32	MG/L	06/28/08	18:15	10.0
NITRITE NITROGEN	9056	0.05	2.00 U	MG/L	06/28/08	18:15	40.0
PH	9040	1.00	7.18	S.U.	06/28/08	12:20	1.0
SULFATE	9056	0.200	2110	MG/L	07/09/08	01:07	400.0
SURFACTANTS	SM5540C	0.0200	1.81	MG/L	06/28/08	11:25	5.0
TOTAL ALKALINITY	SM2320B	2.00	144	MG/L	07/01/08	09:07	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.151	MG/L	07/10/08	10:41	5.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	8100	MG/L	07/03/08	10:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.60	MG/L	07/12/08	21:28	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.73	MG/L	07/12/08	21:37	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.69	MG/L	07/12/08	21:46	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.62	MG/L	07/12/08	21:56	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.66	MG/L	07/12/08	21:28	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International
 Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
 Client Sample ID : M-6AB

Date Sampled : 06/27/08 09:50 Order #: 1113427 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	110	MG/L	07/01/08	09:07	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	07:41	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/01/08	09:07	1.0
CHLORIDE	9056	0.200	2660	MG/L	07/09/08	01:22	400.0
CONDUCTIVITY	120.1		9650	umhos/cm	07/24/08	14:20	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	15:55	10.0
NITRATE NITROGEN	9056	0.0500	0.500 U	MG/L	06/28/08	14:02	10.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	06/28/08	15:26	100.0
PH	9040	1.00	8.07	S.U.	06/28/08	12:20	1.0
SULFATE	9056	0.200	497	MG/L	06/28/08	15:26	100.0
SURFACTANTS	SM5540C	0.0200	0.153	MG/L	06/28/08	11:25	1.0
TOTAL ALKALINITY	SM2320B	2.00	110	MG/L	07/01/08	09:07	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/03/08	11:16	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	6570	MG/L	07/03/08	10:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.86	MG/L	07/12/08	22:06	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.93	MG/L	07/12/08	22:15	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.01	MG/L	07/12/08	22:24	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.94	MG/L	07/12/08	22:34	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.93	MG/L	07/12/08	22:06	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	9.80	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-57AB

Date Sampled : 06/27/08 11:30 Order #: 1113428 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	2.45	MG/L	07/03/08	09:33	2.0
BICARBONATE ALKALINITY	SM2320B	2.00	82.0	MG/L	07/01/08	09:07	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	07:56	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/01/08	09:07	1.0
CHLORIDE	9056	0.200	580	MG/L	06/28/08	19:12	100.0
CONDUCTIVITY	120.1		7580	umhos/cm	07/24/08	14:20	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	1.25	MG/L	07/16/08	16:06	10.0
NITRATE NITROGEN	9056	0.0500	6.97	MG/L	06/28/08	18:43	10.0
NITRITE NITROGEN	9056	0.05	2.00 U	MG/L	06/28/08	18:58	40.0
PH	9040	1.00	7.64	S.U.	06/28/08	12:20	1.0
SULFATE	9056	0.200	994	MG/L	06/28/08	19:12	100.0
SURFACTANTS	SM5540C	0.0200	0.118	MG/L	06/28/08	11:25	1.0
TOTAL ALKALINITY	SM2320B	2.00	82.0	MG/L	07/01/08	09:07	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0151	MG/L	07/03/08	11:16	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	6980	MG/L	07/03/08	10:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.69	MG/L	07/12/08	23:59	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.68	MG/L	07/12/08	00:09	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.76	MG/L	07/12/08	00:18	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.76	MG/L	07/12/08	00:27	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	2.72	MG/L	07/12/08	23:59	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	5.20	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-95B

Date Sampled : 06/27/08 08:30 Order #: 1113429 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	84.0	MG/L	07/01/08	09:07	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	08:10	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/01/08	09:07	1.0
CHLORIDE	9056	0.200	603	MG/L	07/09/08	01:36	400.0
CONDUCTIVITY	120.1		4130	umhos/cm	07/24/08	14:20	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	16:16	10.0
NITRATE NITROGEN	9056	0.0500	41.3	MG/L	06/28/08	16:08	10.0
NITRITE NITROGEN	9056	0.05	2.00 U	MG/L	06/28/08	16:22	40.0
PH	9040	1.00	7.59	S.U.	06/28/08	12:20	1.0
SULFATE	9056	0.200	1030	MG/L	07/09/08	01:36	400.0
SURFACTANTS	SM5540C	0.0200	1.35	MG/L	06/28/08	11:25	4.0
TOTAL ALKALINITY	SM2320B	2.00	84.0	MG/L	07/01/08	09:07	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/03/08	11:16	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	3010	MG/L	07/03/08	10:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.37	MG/L	07/13/08	00:37	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.41	MG/L	07/13/08	00:47	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.45	MG/L	07/13/08	00:56	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.50	MG/L	07/13/08	01:05	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.43	MG/L	07/13/08	00:37	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	11.4	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-68B

Date Sampled : 06/27/08 10:00 Order #: 1113430 Sample Matrix: WATER
 Date Received: 06/28/08 Submission #: R2844650

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	1.24	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	120	MG/L	07/01/08	09:07	1.0
BROMIDE	9056	0.100	1.03	MG/L	07/11/08	08:24	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/01/08	09:07	1.0
CHLORIDE	9056	0.200	525	MG/L	06/28/08	17:47	100.0
CONDUCTIVITY	120.1		6510	umhos/cm	07/24/08	14:20	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.910	MG/L	07/16/08	16:26	10.0
NITRATE NITROGEN	9056	0.0500	9.90	MG/L	06/28/08	17:19	10.0
NITRITE NITROGEN	9056	0.05	2.00 U	MG/L	06/28/08	17:33	40.0
PH	9040	1.00	7.37	S.U.	06/28/08	12:20	1.0
SULFATE	9056	0.200	2340	MG/L	07/09/08	02:18	400.0
SURFACTANTS	SM5540C	0.0200	0.158	MG/L	06/28/08	11:25	1.0
TOTAL ALKALINITY	SM2320B	2.00	120	MG/L	07/01/08	09:07	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0256	MG/L	07/03/08	11:16	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	5510	MG/L	07/03/08	10:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.28	MG/L	07/13/08	01:15	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.38	MG/L	07/13/08	01:25	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.36	MG/L	07/13/08	01:34	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.38	MG/L	07/13/08	01:43	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.35	MG/L	07/13/08	01:15	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	07/01/08	14:30	1.0

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
Reported Units: MG/L
Run # : 163366
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

PRECISION

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.0500 U	0.0500 U	NC	0.482	0.500	96	59 - 129

ACCURACY

AMMONIA

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
 : TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
Reported Units: MG/L
Run # : 163126
Percent Solid : 0.0

PRECISION

ORIGINAL	DUPLICATE	RPD
96.0	96.0	0

BICARBONATE ALKALINITY

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
Reported Units: MG/L
Run # : 163167

TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

PRECISION

ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
9.82	9.42	4	21.6	10.0	118	71 - 122

BROMIDE

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
 : TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
Reported Units: MG/L
Run # : 163127
Percent Solid : 0.0

PRECISION

ORIGINAL	DUPLICATE	RPD
2.00 U	2.00 U	NC

CARBONATE ALKALINITY

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 09/03/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
Reported Units: MG/L
Run # : 163509
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

PRECISION				ACCURACY		
ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
3890	3680	6	5460	2000	78	72 - 118

CHLORIDE

01793

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
 : TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
Reported Units: umhos/cm
Run # : 164601
Percent Solid : 0.0

PRECISION

ORIGINAL	DUPLICATE	RPD
11600	11600	0

CONDUCTIVITY

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
 : TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
Reported Units: MG/L
Run # : 164109

PRECISION

ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.100 U	0.100 U	NC	2.01	2.00	100	90 - 110

HEXAVALENT CHROMIUM

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
 : TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
Reported Units: MG/L
Run # : 163173

PRECISION

ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
1.21	1.17	4	10.0	10.0	88	79 - 111

NITRATE NITROGEN

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
Reported Units: MG/L
Run # : 163174
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

PRECISION

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
5.00 U	5.00 U	NC	97.9	100	98	70 - 130

NITRITE NITROGEN

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
 : TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
Reported Units: S.U.
Run # : 163154
Percent Solid : 0.0

PRECISION

ORIGINAL	DUPLICATE	RPD
7.29	7.29	0

PH

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 09/03/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
 : TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
Reported Units: MG/L
Run # : 163511

PRECISION ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
1440	1430	1	3320	2000	94	61 - 128

SULFATE

01799

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
Reported Units: MG/L
Run # : 163178
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

PRECISION

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.263	0.253	4	0.445	0.200	91	58 - 139

ACCURACY

SURFACTANTS

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
Reported Units: MG/L
Run # : 163128
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

PRECISION ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
96.0	96.0	0	132	40.0	91	80 - 121

TOTAL ALKALINITY

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
Reported Units: MG/L
Run # : 163108
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

PRECISION

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.0100 U	0.0100 U	NC	0.0736	0.100	74	27 - 153

ACCURACY

TOTAL CYANIDE

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
 : TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
Reported Units: MG/L
Run # : 163144
Percent Solid : 0.0

PRECISION

ORIGINAL	DUPLICATE	RPD
7750	7570	2

TOTAL DISSOLVED SOLIDS

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
Reported Units: MG/L
Run # : 163813
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

PRECISION

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
1.74	1.85	6	10.7	10.0	90	78 - 129

ACCURACY

TOTAL ORGANIC CARBON

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
Reported Units: MG/L
Run # : 163406

TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

PRECISION ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.0500 U	0.0500 U	NC	0.798	0.800	100	51 - 148

TOTAL PHOSPHORUS

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1112874 - M-7BB
Client : ENSR International
 : TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213
Reported Units: MG/L
Run # : 163198
Percent Solid : 0.0

PRECISION

ORIGINAL	DUPLICATE	RPD
3.10	3.00	3

TOTAL SUSPENDED SOLIDS

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844650
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
BICARBONATE ALKALINITY						
2.00 U	20.2	20.0	101	93 - 111	162941	MG/L
CARBONATE ALKALINITY						
2.00 U	20.2	20.0	101	93 - 111	162942	MG/L
TOTAL ALKALINITY						
2.00 U	20.2	20.0	101	93 - 111	162943	MG/L
TOTAL DISSOLVED SOLIDS						
10.0 U	918	914	100	80 - 120	162973	MG/L
NITRATE NITROGEN						
0.0500 U	0.902	1.00	90	90 - 110	162986	MG/L
NITRITE NITROGEN						
0.0500 U	0.935	1.00	94	90 - 110	162987	MG/L
AMMONIA						
0.0500 U	0.490	0.500	98	90 - 110	163013	MG/L
TOTAL SUSPENDED SOLIDS						
1.00 U	215	212	101	80 - 120	163035	MG/L
NITRATE NITROGEN						
0.0500 U	0.913	1.00	91	90 - 110	163044	MG/L
NITRITE NITROGEN						
0.0500 U	0.931	1.00	93	90 - 110	163045	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844650
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
TOTAL CYANIDE						
0.0100 U	0.410	0.400	103	85 - 115	163108	MG/L
2.00 U	19.0	20.0	95	93 - 111	163128	MG/L
10.0 U	902	916	98	80 - 120	163144	MG/L
TOTAL DISSOLVED SOLIDS						
0.0200 U	0.407	0.400	102	58 - 139	163166	MG/L
0.100 U	0.895	1.00	90	90 - 110	163167	MG/L
0.200 U	2.02	2.00	101	90 - 110	163168	MG/L
0.200 U	1.89	2.00	94	90 - 110	163169	MG/L
0.0500 U	0.967	1.00	97	90 - 110	163173	MG/L
0.0500 U	0.987	1.00	99	90 - 110	163174	MG/L
0.0200 U	0.402	0.400	101	58 - 139	163178	MG/L
SURFACTANTS						
BROMIDE						
CHLORIDE						
SULFATE						
NITRATE NITROGEN						
NITRITE NITROGEN						
SURFACTANTS						

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844650
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4213

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
TOTAL SUSPENDED SOLIDS						
1.00 U	216	212	102	80 - 120	163198	MG/L
SURFACTANTS						
0.0200 U	0.422	0.400	106	58 - 139	163205	MG/L
0.0200 U	0.392	0.400	98	58 - 139	163206	MG/L
TOTAL ALKALINITY						
2.00 U	19.0	20.0	95	93 - 111	163216	MG/L
CHLORIDE						
0.200 U	1.96	2.00	98	90 - 110	163262	MG/L
NITRATE NITROGEN						
0.0500 U	0.969	1.00	97	90 - 110	163263	MG/L
NITRITE NITROGEN						
0.0500 U	0.994	1.00	99	90 - 110	163264	MG/L
SULFATE						
0.200 U	1.88	2.00	94	90 - 110	163265	MG/L
TOTAL PHOSPHORUS						
0.0500 U	0.806	0.800	101	90 - 110	163292	MG/L
TOTAL CYANIDE						
0.0100 U	0.402	0.400	100	85 - 115	163296	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844650
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
TOTAL ALKALINITY						
2.00 U	19.5	20.0	98	93 - 111	163336	MG/L
CHLORIDE						
0.200 U	1.89	2.00	95	90 - 110	163356	MG/L
AMMONIA						
0.0500 U	0.476	0.500	95	90 - 110	163366	MG/L
TOTAL DISSOLVED SOLIDS						
10.0 U	909	914	100	80 - 120	163395	MG/L
TOTAL PHOSPHORUS						
0.0500 U	0.782	0.800	98	90 - 110	163406	MG/L
CHLORIDE						
0.200 U	1.94	2.00	97	90 - 110	163509	MG/L
SULFATE						
0.200 U	1.85	2.00	93	90 - 110	163511	MG/L
TOTAL CYANIDE						
0.0100 U	0.380	0.400	95	85 - 115	163588	MG/L
CHLORIDE						
0.200 U	1.93	2.00	96	90 - 110	163656	MG/L
SULFATE						
0.200 U	1.85	2.00	92	90 - 110	163658	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844650
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
CHLORIDE						
0.200 U	1.91	2.00	96	90 - 110	163746	MG/L
BROMIDE						
0.100 U	0.976	1.00	98	90 - 110	163797	MG/L
TOTAL ORGANIC CARBON						
1.00 U	9.40	10.0	94	85 - 115	163813	MG/L
HEXAVALENT CHROMIUM						
0.0100 U	0.203	0.200	102	80 - 120	164109	MG/L

Run #: 163013

Analyte: NH3 350.1M AMMONIA

Printed: 06/30/08 15:57

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1112987	WATER	1.70	1.0	0.0500	94.5		06/27/2008		
BLK1		1112988	WATER	0.0500	U	1.0	0.0500		06/27/2008		
SPKB		1112989	WATER	0.485		1.0	0.0500	96.9	06/27/2008		
SPKB		1112990	WATER	0.492		1.0	0.0500	98.4	06/27/2008		
ESMP	R2843442	1093541	WATER	12.2		10.0	0.0500		06/27/2008	RUN	2
LDUP		1112991	WATER	12.1		10.0	0.0500	0.50	06/27/2008		
SPK1		1112992	WATER	16.2		10.0	0.0500	79.7	06/27/2008		
ESMP	R2843442	1093542	WATER	1.14		1.0	0.0500		06/27/2008	RUN	2
ESMP	R2843442	1093543	WATER	22.7		20.0	0.0500		06/27/2008	RUN	2
ESMP	R2844175	1105206	WATER	0.118		1.0	0.0500		06/27/2008	RUN	2
LDUP		1112993	WATER	0.116		1.0	0.0500	1.54	06/27/2008		
SPK1		1112994	WATER	0.480		1.0	0.0500	72.4	06/27/2008		
SPKB		1112995	WATER	0.484		1.0	0.0500	96.9	06/27/2008		
ESMP	R2844175	1105207	WATER	0.699		1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844175	1105208	WATER	0.188		1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844175	1105209	WATER	1.43		1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844175	1105210	WATER	0.198		1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844175	1105211	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844175	1105212	WATER	0.250		1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844175	1105213	WATER	0.745		1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844175	1105214	WATER	5.29		5.0	0.0500		06/27/2008	RUN	2
ESMP	R2844175	1105215	WATER	3.59		4.0	0.0500		06/27/2008	RUN	2
ESMP	R2844538	1110532	WATER	0.119		1.0	0.0500		06/27/2008		ASPB
ESMP	R2844175	1110710	WATER	0.181		1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844321	1106830	WATER	1.08		1.0	0.0500		06/27/2008		ASPB
LDUP		1112996	WATER	1.07		1.0	0.0500	1.02	06/27/2008		
SPK1		1112997	WATER	1.53		1.0	0.0500	90.6	06/27/2008		
ESMP	R2844503	1109355	WATER	0.0572		1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844503	1109356	WATER	0.484		1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844538	1111264	WATER	0.646		1.0	0.0500		06/27/2008	RUN	ASPB
ESMP	R2844538	1111265	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER	0.0737		1.0	0.0500		06/27/2008	RUN	ASPB
SPKB		1112998	WATER	0.490		1.0	0.0500	98.0	06/27/2008		
ESMP	R2843634	1096170	WATER	8.41		5.0	0.0500		06/27/2008		1
ESMP	R2843634	1096171	WATER	0.137		1.0	0.0500		06/27/2008		1
ESMP	R2843634	1096173	WATER	1.60		1.0	0.0500		06/27/2008		1
ESMP	R2843634	1096174	WATER	0.580		1.0	0.0500		06/27/2008		1
LDUP		1112999	WATER	0.577		1.0	0.0500	0.55	06/27/2008		
SPK1		1113000	WATER	1.01		1.0	0.0500	86.8	06/27/2008		
ESMP	R2843634	1096175	WATER	0.0500	U	1.0	0.0500		06/27/2008		1
ESMP	R2844538	1111763	WATER	0.154		1.0	0.0500		06/27/2008	RUN	ASPB
ESMP	R2844538	1111764	WATER	0.476		1.0	0.0500		06/27/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	ASPB
ESMP	R2844305	1106639	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844305	1106640	WATER	0.528		1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844305	1106641	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	2
LDUP		1113001	WATER	0.0500	U	1.0	0.0500		06/27/2008		
SPK1		1113002	WATER	0.302		1.0	0.0500	60.5	06/27/2008		
ESMP	R2844305	1106642	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844305	1106643	WATER	0.524		1.0	0.0500		06/27/2008	RUN	2

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT		DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844305	-- 1106644	WATER	0.844		1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844305	-- 1106645	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844305	-- 1106646	WATER	0.173		1.0	0.0500			06/27/2008	RUN	2
SPKB		-- 1113003	WATER	0.485		1.0	0.0500	97.0		06/27/2008		
ESMP	R2844305	-- 1106647	WATER	1.22		1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844305	-- 1106648	WATER	0.0505		1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844305	-- 1106649	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844305	-- 1106650	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844647	-- 1112014	WATER	1030		1000.0	0.0500			06/27/2008	RUN	2
ESMP	R2844647	-- 1112018	WATER	1530		1000.0	0.0500			06/27/2008	RUN	2
ESMP	R2844647	-- 1112019	WATER	1770		1000.0	0.0500			06/27/2008	RUN	2
BLK2		-- 1113006	WATER	5.00	U	1.0	5.00 0.0500			06/27/2008		
SPKB		-- 1113007	WATER	0.492		1.0	0.0500	98.4		06/27/2008		
ESMP	R2844647	-- 1112111	SOLID	1660		20.0	5.00			06/27/2008	RUN	2
LDUP		-- 1113008	SOLID	1660		20.0	5.00		0.10	06/27/2008		
SPK1		-- 1113009	SOLID	2640		20.0	5.00	97.7		06/27/2008		
BLK2		-- 1113004	SOLID	5.00	U	1.0	5.00			06/27/2008		
SPKS		-- 1113005	SOLID	48.4		1.0	5.00	96.8		06/27/2008		
ESMP	R2844647	-- 1112112	SOLID	2130		20.0	5.00			06/27/2008	RUN	2
BLK5		-- 1113010	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		
ESMP	R2844666	-- 1112361	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		ASPB
ESMP	R2844666	-- 1112362	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008	QC	ASPB
LDUP		-- 1113011	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		
SPK1		-- 1113012	SOIL/SEDIME	4.97		1.0	5.00	99.4		06/27/2008		
ESMP	R2844666	-- 1112363	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		ASPB
ESMP	R2844666	-- 1112364	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		ASPB
ESMP	R2844666	-- 1112365	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		ASPB
ESMP	R2844650	-- 1112486	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	ASPB
SPKB		-- 1113013	WATER	0.487		1.0	0.0500	97.5		06/27/2008		
ESMP	R2844650	-- 1112487	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	ASPB
ESMP	R2844650	-- 1112488	WATER	10.2		10.0	0.0500			06/27/2008	RUN	ASPB
ESMP	R2844650	-- 1112489	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	ASPB
ESMP	R2844538	-- 1109708	WATER	0.0500	U	1.0	0.0500			06/27/2008		ASPB
SPKB		-- 1113229	WATER	0.490		1.0	0.0500	97.9		06/27/2008		

Records printed: 85

Creator: NMEAD
 Creation Date: Jun 27, 2008 9:54:35
 Last Modified: Jun 27, 2008 11:40:32
 Description: QC 8000 350.1 Ammonia - RUN LOG - 0806270A

Cup #	Sample ID	Manual Dilution	Sample Type	
1	Standard A - 2.000	1.0000	CalStd	
2	Standard B - 1.000	1.0000	CalStd	
3	Standard C - 0.500	1.0000	CalStd	
4	Standard D - 0.200	1.0000	CalStd	
5	Standard E - 0.100	1.0000	CalStd	
6	Standard F - 0.050	1.0000	CalStd	
7	Standard G - 0.020	1.0000	CalStd	
8	Standard H - 0.010	1.0000	CalStd	
9	Standard I - 0.000	1.0000	CalStd	
1	ICV TV = 1.80	1.0000	Unknown	
2	ICB	1.0000	Unknown	
3	LCS TV = 0.500	1.0000	Unknown	
4	CRDL 0.050	1.0000	Unknown	
5	CRDL 0.010	1.0000	Unknown	- high - loaded 0.020 STD?
6	CCV	1.0000	Unknown	rpt @ # 54
7	CCB	1.0000	Unknown	
8	1110578-44252	1.0000	Unknown	- air spike - rpt @ # 158
9	578 DUP	1.0000	Unknown	
10	578 SPK TV = 0.500	1.0000	Unknown	
11	1110579	1.0000	Unknown	
12	1110580	1.0000	Unknown	
13	1111026-44609	1.0000	Unknown	
14	1111031	1.0000	Unknown	
15	1111034	1.0000	Unknown	
16	1111035	1.0000	Unknown	
17	1111036	1.0000	Unknown	
18	CCV	1.0000	Unknown	
19	CCB	1.0000	Unknown	
20	LCS	1.0000	Unknown	
21	1111037	1.0000	Unknown	
22	1111038	1.0000	Unknown	
23	1111039	1.0000	Unknown	
24	1111040	1.0000	Unknown	
25	040 DUP	1.0000	Unknown	
26	040 SPK TV = 0.500	1.0000	Unknown	
27	1111041	1.0000	Unknown	
28	1111042	1.0000	Unknown	- air spike - rpt @ # 159
29	1111043	1.0000	Unknown	
30	1111044	1.0000	Unknown	
31	CCV	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
32	CCB	1.0000	Unknown	
33	1111045	1.0000	Unknown	
34	1111046	1.0000	Unknown	
35	1111047	1.0000	Unknown	-air spike - rpt @ #160
36	1111048	1.0000	Unknown	
37	1111407-44621	1.0000	Unknown	
38	1111638	1.0000	Unknown	
39	1111639	1.0000	Unknown	
40	1111640	1.0000	Unknown	
41	1111726	1.0000	Unknown	
42	726 DUP	1.0000	Unknown	
43	CCV	1.0000	Unknown	
44	CCB	1.0000	Unknown	tray ends here -
45	LCS	1.0000	Unknown	next CCB fails high
46	726 SPK TV = 0.500	1.0000	Unknown	
47	1111897	1.0000	Unknown	
48	1111898	1.0000	Unknown	
49	1111899	1.0000	Unknown	
50	1111900	1.0000	Unknown	
51	1111983	1.0000	Unknown	
52	983 DUP	1.0000	Unknown	
53	983 SPK TV = 0.500	1.0000	Unknown	
54	CRDL - 0.0100 RPT	1.0000	Unknown	
55	1111985	1.0000	Unknown	
56	CCV	1.0000	Unknown	
57	CCB	1.0000	Unknown	- high - repair + rerun
58	1111986	1.0000	Unknown	all samples from #43
59	1111987	1.0000	Unknown	
60	1108907-44491	1.0000	Unknown	
61	1093541-43442	1.0000	Unknown	
62	541 DUP	1.0000	Unknown	
63	541 SPK TV = 0.500	1.0000	Unknown	
64	1093542	1.0000	Unknown	
65	1093543	10.0000	Unknown	
66	1105206-44175	1.0000	Unknown	
67	206 DUP	1.0000	Unknown	
68	CCV	1.0000	Unknown	
69	CCB	1.0000	Unknown	
70	LCS	1.0000	Unknown	
71	206 SPK TV = 0.500	1.0000	Unknown	
72	1105208	1.0000	Unknown	
73	1105209	4.0000	Unknown	
74	1105210	1.0000	Unknown	
75	1105211	1.0000	Unknown	
76	1105212	1.0000	Unknown	

Creator: NMEAD
 Creation Date: Jun 27, 2008 11:50:45
 Last Modified: Jun 27, 2008 11:50:45
 Description: QC 8000 350.1 Ammonia - RUN LOG - 080627A2

Cup #	Sample ID	Manual Dilution	Sample Type	
43	CCV	1.0000	Unknown	
44	CCB	1.0000	Unknown	
45	LCS	1.0000	Unknown	
46	726 SPK TV = 0.500	1.0000	Unknown	
47	1111897	1.0000	Unknown	
48	1111898	1.0000	Unknown	
49	1111899	1.0000	Unknown	
50	1111900	1.0000	Unknown	
51	1111983	1.0000	Unknown	
52	983 DUP	1.0000	Unknown	-air spike - rpt @ # 162
53	983 SPK TV = 0.500	1.0000	Unknown	
54	CRDL - 0.0100 RPT	1.0000	Unknown	-air spike - rpt @ # 163
55	1111985	1.0000	Unknown	-air spike - rpt @ # 164
56	CCV	1.0000	Unknown	
57	CCB	1.0000	Unknown	
58	1111986	1.0000	Unknown	
59	1111987	1.0000	Unknown	
60	1108907-44491	1.0000	Unknown	
61	1093541-43442	1.0000	Unknown	} rpt @ # 165 → 167-1
62	541 DUP	1.0000	Unknown	
63	541 SPK TV = 0.500	1.0000	Unknown	
64	1093542	1.0000	Unknown	
65	1093543	10.0000	Unknown	- rpt @ # 171 - 1/20
66	1105206-44175	1.0000	Unknown	} air rpt @ # 172, 173
67	206 DUP	1.0000	Unknown	
68	CCV	1.0000	Unknown	
69	CCB	1.0000	Unknown	
70	LCS	1.0000	Unknown	
71	206 SPK TV = 0.500	1.0000	Unknown	
72	1105208	1.0000	Unknown	
73	1105209	4.0000	Unknown	- rpt @ # 174 - str.
74	1105210	1.0000	Unknown	
75	1105211	1.0000	Unknown	
76	1105212	1.0000	Unknown	
77	1105213	1.0000	Unknown	
78	1105214	5.0000	Unknown	
79	1105215	20.0000	Unknown	- rpt @ # 175 - 1/4
80	1110532-44538	1.0000	Unknown	- air spike - rpt @ # 176
81	CCV	1.0000	Unknown	
82	CCB	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
83	1110710-44175	1.0000	Unknown	
84	1106830-44321	1.0000	Unknown	
85	830 DUP	1.0000	Unknown	
86	830 SPK TV = 0.500	1.0000	Unknown	
87	1109355-44503	1.0000	Unknown	-dir spike - rpt @ # 177
88	1109356	1.0000	Unknown	
89	1111264-44538	1.0000	Unknown	
90	1111265	1.0000	Unknown	
91	1111266	1.0000	Unknown	-dir spike - <PQL
92	1111267	1.0000	Unknown	
93	CCV	1.0000	Unknown	
94	CCB	1.0000	Unknown	
95	LCS	1.0000	Unknown	
96	1096170-43634	1.0000	Unknown	-rpt @ # 178 - 1/5
97	1096171	5.0000	Unknown	-rpt @ # 179 - str.
98	1096173	1.0000	Unknown	
99	1096174	1.0000	Unknown	
100	174 DUP	1.0000	Unknown	
101	174 SPK TV = 0.500	1.0000	Unknown	
102	1096175	1.0000	Unknown	
103	1111763-44538	1.0000	Unknown	
104	1111764	1.0000	Unknown	
105	1111765	1.0000	Unknown	
106	CCV	1.0000	Unknown	
107	CCB	1.0000	Unknown	
108	1106639-44305	1.0000	Unknown	
109	1106640	1.0000	Unknown	
110	1106641	1.0000	Unknown	} sm. neg. peaks - <PQL
111	641 DUP	1.0000	Unknown	
112	641 SPK TV = 0.500	1.0000	Unknown	
113	1106642	1.0000	Unknown	
114	1106643	1.0000	Unknown	
115	1106644	1.0000	Unknown	
116	1106645	1.0000	Unknown	-sm. neg. peak - <PQL
117	1106646	1.0000	Unknown	
118	CCV	1.0000	Unknown	
119	CCB	1.0000	Unknown	
120	LCS	1.0000	Unknown	
121	1106647	1.0000	Unknown	
122	1106648	1.0000	Unknown	
123	1106649	1.0000	Unknown	
124	1106650	1.0000	Unknown	-sm. neg. peak - <PQL
125	1112014-44647	1,000.0000	Unknown	
126	1112018	1,000.0000	Unknown	
127	1112019	1,000.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
128	PB SOIL	1.0000	Unknown	1.0g → 100mL
129	LCS-SOIL TV= 50.0	1.0000	Unknown	↓ ↓
130	FILTER BLANK	1.0000	Unknown	
131	CCV	1.0000	Unknown	
132	CCB	1.0000	Unknown	- < PQL for 0.050
133	FILTERED LCS TV= 0.50	1.0000	Unknown	
134	1112111S-44647	20.0000	Unknown	1.0g → 100mL
135	111S DUP	20.0000	Unknown	↓ ↓
136	111S SPK TV= 50.0	20.0000	Unknown	
137	1112112S	20.0000	Unknown	- air spike - rpt @ #180
138	MB R-44666	1.0000	Unknown	25.0g → 250mL
139	1112361-44666	1.0000	Unknown	- air spike - rpt @ #183
140	1112362	1.0000	Unknown	25.0g → 250mL
141	362 DUP	1.0000	Unknown	↓ ↓
142	362 SPK TV= 0.500	1.0000	Unknown	
143	CCV	1.0000	Unknown	
144	CCB	1.0000	Unknown	tray ends here
145	LCS	1.0000	Unknown	- no recovery - repour
146	1112363	1.0000	Unknown	+ repeat tray from
147	1112364	1.0000	Unknown	# 143
148	1112365	1.0000	Unknown	
149	1112486-44650	1.0000	Unknown	
150	1112487	1.0000	Unknown	
151	1112488	1.0000	Unknown	
152	1112489	1.0000	Unknown	
153	1109708-44538	1.0000	Unknown	
154	1111727-44621	1.0000	Unknown	
155	1105207-44175	1.0000	Unknown	
156	CCV	1.0000	Unknown	
157	CCB	1.0000	Unknown	
158	1110578 RPT	1.0000	Unknown	
159	1111042 RPT	1.0000	Unknown	
160	1111047 RPT	1.0000	Unknown	
161	1111984-44621	1.0000	Unknown	
162	1111983 DUP RPT	1.0000	Unknown	
163	CRDL - 0.010 RPT	1.0000	Unknown	
164	1111985 RPT	1.0000	Unknown	
165	1093541 RPT 1/10	10.0000	Unknown	
166	541 DUP RPT 1/10	10.0000	Unknown	
167	541 SPK RPT 1/10	10.0000	Unknown	
168	CCV	1.0000	Unknown	
169	CCB	1.0000	Unknown	
170	LCS	1.0000	Unknown	
171	1093543 RPT 1/20	20.0000	Unknown	
172	1105206 RPT	1.0000	Unknown	

nm taken 1/8

Creator: NMEAD
 Creation Date: Jun 27, 2008 13:39:28
 Last Modified: Jun 27, 2008 13:39:28
 Description: QC 8000 350.1 Ammonia - RUN LOG - 080627A3

Cup #	Sample ID	Manual Dilution	Sample Type	
143	CCV	1.0000	Unknown	
144	CCB	1.0000	Unknown	
145	LCS	1.0000	Unknown	
146	1112363 - sm. neg. peak - <POL	1.0000	Unknown	25.0g → 250mL
147	1112364 - sm. neg. peak - <POL	1.0000	Unknown	↓ ↓
148	1112365 - sm. neg. peak - <POL	1.0000	Unknown	
149	1112486-44650	1.0000	Unknown	
150	1112487	1.0000	Unknown	
151	1112488	1.0000	Unknown	- rpt @ #184-1/10
152	1112489	1.0000	Unknown	
153	1109708-44538	1.0000	Unknown	
154	1111727-44621	1.0000	Unknown	
155	1105207-44175	1.0000	Unknown	
156	CCV	1.0000	Unknown	
157	CCB	1.0000	Unknown	
158	1110578 RPT	1.0000	Unknown	
159	1111042 RPT	1.0000	Unknown	
160	1111047 RPT	1.0000	Unknown	
161	1111984-44621	1.0000	Unknown	
162	1111983 DUP RPT	1.0000	Unknown	
163	CRDL - 0.010 RPT	1.0000	Unknown	
164	1111985 RPT	1.0000	Unknown	
165	1093541 RPT 1/10	10.0000	Unknown	
166	541 DUP RPT 1/10	10.0000	Unknown	
167	541 SPK RPT 1/10	10.0000	Unknown	
168	CCV	1.0000	Unknown	
169	CCB	1.0000	Unknown	
170	LCS	1.0000	Unknown	
171	1093543 RPT 1/20	20.0000	Unknown	
172	1105206 RPT	1.0000	Unknown	
173	206 DUP RPT	1.0000	Unknown	
174	1105209 RPT STR	1.0000	Unknown	
175	1105215 RPT 1/4	4.0000	Unknown	
176	1110532 RPT	1.0000	Unknown	
177	1109355 RPT	1.0000	Unknown	
178	1096170 RPT 1/5	5.0000	Unknown	
179	1096171 RPT STR	1.0000	Unknown	
180	1112112S RPT 1/20	20.0000	Unknown	- 1.0g → 100mL
181	CCV	1.0000	Unknown	
182	CCB	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
183	1112361 RPT	1.0000	Unknown	25.0g → 250mL
184	1112488 RPT 1/10	10.0000	Unknown	
185	CCV	1.0000	Unknown	
186	CCB	1.0000	Unknown	

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 10:50:13
C:\OMNION\DATA\080627A1.FDT
C:\OMNION\TRAYS\0806270A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
1	ICV TV= 1.80	27 Jun 2008	10:50:16	1	1.7018	1.0	1.00
2	ICB	27 Jun 2008	10:51:15	1	-0.0000	1.0	1.00
3	LCS TV= 0.500	27 Jun 2008	10:52:13	1	0.4846	1.0	1.00
4	CRDL 0.050	27 Jun 2008	10:53:11	1	0.0569	1.0	1.00
5	CRDL 0.010	27 Jun 2008	10:54:09	1	0.0225	1.0	1.00
6	CCV	27 Jun 2008	10:55:07	1	1.6938	1.0	1.00
7	CCB	27 Jun 2008	10:56:06	1	-0.0000	1.0	1.00
8	1110578-44252	27 Jun 2008	10:57:04	1	0.0251	1.0	1.00
9	578 DUP	27 Jun 2008	10:58:01	1	0.0281	1.0	1.00
10	578 SPK TV= 0.500	27 Jun 2008	10:58:58	1	0.4938	1.0	1.00
11	1110579	27 Jun 2008	10:59:55	1	0.0682	1.0	1.00
12	1110580	27 Jun 2008	11:00:52	1	0.0486	1.0	1.00
13	1111026-44609	27 Jun 2008	11:01:49	1	0.0574	1.0	1.00
14	1111031	27 Jun 2008	11:02:46	1	0.1179	1.0	1.00
15	1111034	27 Jun 2008	11:03:43	1	0.1043	1.0	1.00
16	1111035	27 Jun 2008	11:04:42	1	0.0572	1.0	1.00
17	1111036	27 Jun 2008	11:05:41	1	0.0672	1.0	1.00
18	CCV	27 Jun 2008	11:06:39	1	1.6760	1.0	1.00
19	CCB	27 Jun 2008	11:07:37	1	0.0140	1.0	1.00
20	LCS	27 Jun 2008	11:08:35	1	0.4773	1.0	1.00
21	1111037	27 Jun 2008	11:09:33	1	0.0875	1.0	1.00
22	1111038	27 Jun 2008	11:10:31	1	0.0069	1.0	1.00
23	1111039	27 Jun 2008	11:11:29	1	0.0130	1.0	1.00
24	1111040	27 Jun 2008	11:12:27	1	0.0229	1.0	1.00
25	040 DUP	27 Jun 2008	11:13:25	1	0.0199	1.0	1.00

high-loaded 0.020 STD?
rpt @ #54

air spike - rpt @ #158

need repeat
all associated
data
CK 6/30/08

failed ←

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 10:50:13
 DATA FILENAME: C:\OMNION\DATA\080627A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0806270A.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
26	040 SPK TV= 0.500	27 Jun 2008	11:14:22	1	0.4812	1.0	1.00
27	1111041	27 Jun 2008	11:15:19	1	0.0266	1.0	1.00
28	1111042	27 Jun 2008	11:16:16	1	0.0192	1.0	1.00
29	1111043	27 Jun 2008	11:17:13	1	0.0190	1.0	1.00
30	1111044	27 Jun 2008	11:18:10	1	0.0033	1.0	1.00
31	CCV	27 Jun 2008	11:19:09	1	1.6961	1.0	1.00
32	CCB	27 Jun 2008	11:20:09	1	0.0039	1.0	1.00
33	1111045	27 Jun 2008	11:21:07	1	0.0176	1.0	1.00
34	1111046	27 Jun 2008	11:22:05	1	0.0270	1.0	1.00
35	1111047	27 Jun 2008	11:23:03	1	0.0229	1.0	1.00
36	1111048	27 Jun 2008	11:24:01	1	-0.0000	1.0	1.00
37	1111407-44621	27 Jun 2008	11:24:59	1	0.0521	1.0	1.00
38	1111638	27 Jun 2008	11:25:58	1	0.0156	1.0	1.00
39	1111639	27 Jun 2008	11:26:56	1	0.0529	1.0	1.00
40	1111640	27 Jun 2008	11:27:54	1	0.1354	1.0	1.00
41	1111726	27 Jun 2008	11:28:51	1	0.1032	1.0	1.00
42	726 DUP	27 Jun 2008	11:29:48	1	0.1079	1.0	1.00
43	CCV	27 Jun 2008	11:30:45	1	1.7150	1.0	1.00
44	CCB	27 Jun 2008	11:31:43	1	0.0032	1.0	1.00
45	LCS	27 Jun 2008	11:32:40	1	0.4906	1.0	1.00
46	726 SPK TV= 0.500	27 Jun 2008	11:33:39	1	0.5673	1.0	1.00
47	1111897	27 Jun 2008	11:34:38	1	0.0283	1.0	1.00
48	1111898	27 Jun 2008	11:35:37	1	0.0406	1.0	1.00
49	1111899	27 Jun 2008	11:36:37	1	0.1298	1.0	1.00
50	1111900	27 Jun 2008	11:37:35	1	0.0016	1.0	1.00

ck6/30/08
 Repeat due to failed CCB

air spike - rpt @ # 159

air spike - rpt @ # 160

tray ends here -
 next CCB fails high

nm6/27/08

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 10:50:13
 DATA FILENAME: C:\OMNION\DATA\080627A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0806270A.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
51	1111983	27 Jun 2008	11:38:33	1	0.0090	1.0	1.00
52	983 DUP	27 Jun 2008	11:39:31	1	0.0086	1.0	1.00
53	983 SPK TV= 0.500	27 Jun 2008	11:40:29	1	0.4868	1.0	1.00
54	CRDL - 0.0100 RPT	27 Jun 2008	11:41:27	1	0.0178	1.0	1.00
55	1111985	27 Jun 2008	11:42:26	1	0.0802	1.0	1.00
56	CCV	27 Jun 2008	11:43:24	1	1.7141	1.0	1.00
57	CCB	27 Jun 2008	11:44:22	1	0.0479	1.0	1.00
58	1111986	27 Jun 2008	11:45:19	1	0.0055	1.0	1.00
59	1111987	27 Jun 2008	11:46:16	1	0.0172	1.0	1.00

nm blank
 -high-repour rerun
 all samples from
 #43

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 11:51:06
 DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A2.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
43	CCV	27 Jun 2008	11:51:08	1	1.7173	1.0	1.00
44	CCB	27 Jun 2008	11:52:05	1	0.0012	1.0	1.00
45	LCS	27 Jun 2008	11:53:02	1	0.4922	1.0	1.00
46	726 SPK TV= 0.500	27 Jun 2008	11:54:01	1	0.5699	1.0	1.00
47	1111897	27 Jun 2008	11:55:01	1	0.0287	1.0	1.00
48	1111898	27 Jun 2008	11:56:00	1	0.0103	1.0	1.00
49	1111899	27 Jun 2008	11:56:59	1	0.1321	1.0	1.00
50	1111900	27 Jun 2008	11:57:57	1	0.0023	1.0	1.00

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 11:51:06
 DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A2.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
51	1111983	27 Jun 2008	11:58:55	1	0.0101	1.0	1.00	
52	983 DUP	27 Jun 2008	11:59:53	1	0.0084	1.0	1.00	- air spike - rpt @ # 162
53	983 SPK TV= 0.500	27 Jun 2008	12:00:51	1	0.4897	1.0	1.00	
54	CRDL - 0.0100 RPT	27 Jun 2008	12:01:50	1	0.0180	1.0	1.00	- air spike - rpt @ # 163
55	1111985	27 Jun 2008	12:02:48	1	0.0791	1.0	1.00	- air spike - rpt @ # 164
56	CCV	27 Jun 2008	12:03:46	1	1.7027	1.0	1.00	
57	CCB	27 Jun 2008	12:04:43	1	-0.0000	1.0	1.00	
58	1111986	27 Jun 2008	12:05:40	1	0.0064	1.0	1.00	
59	1111987	27 Jun 2008	12:06:37	1	0.0156	1.0	1.00	
60	1108907-44491	27 Jun 2008	12:07:34	1	0.0416	1.0	1.00	
61	1093541-43442	27 Jun 2008	12:08:33	1	9.5414	1.0	1.00	} rpt @ # 165 → 167 - 1/10
62	541 DUP	27 Jun 2008	12:09:33	1	9.4367	1.0	1.00	
63	541 SPK TV= 0.500	27 Jun 2008	12:10:32	1	9.8209	1.0	1.00	
64	1093542	27 Jun 2008	12:11:30	1	1.1410	1.0	1.00	
65	1093543	27 Jun 2008	12:12:29	1	20.7351	10.0	1.00	- rpt @ # 171 - 1/20
66	1105206-44175	27 Jun 2008	12:13:28	1	0.1120	1.0	1.00	} air - rpt @ # 172, 173
67	206 DUP	27 Jun 2008	12:14:26	1	0.1100	1.0	1.00	
68	CCV	27 Jun 2008	12:15:24	1	1.6925	1.0	1.00	
69	CCB	27 Jun 2008	12:16:22	1	-0.0000	1.0	1.00	
70	LCS	27 Jun 2008	12:17:20	1	0.4844	1.0	1.00	
71	206 SPK TV= 0.500	27 Jun 2008	12:18:18	1	0.4799	1.0	1.00	
72	1105208	27 Jun 2008	12:19:17	1	0.1880	1.0	1.00	
73	1105209	27 Jun 2008	12:20:15	1	1.8976	4.0	1.00	- rpt @ # 174 - str
74	1105210	27 Jun 2008	12:21:12	1	0.1979	1.0	1.00	
75	1105211	27 Jun 2008	12:22:09	1	0.0219	1.0	1.00	

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 11:51:06
 DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A2.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 76 to 100

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
76	1105212	27 Jun 2008	12:23:08	1	0.2496	1.0	1.00
77	1105213	27 Jun 2008	12:24:07	1	0.7451	1.0	1.00
78	1105214	27 Jun 2008	12:25:06	1	5.2922	5.0	1.00
79	1105215	27 Jun 2008	12:26:06	1	4.0736	20.0	1.00
80	1110532-44538	27 Jun 2008	12:27:05	1	0.1319	1.0	1.00
81	CCV	27 Jun 2008	12:28:04	1	1.6786	1.0	1.00
82	CCB	27 Jun 2008	12:29:02	1	0.0025	1.0	1.00
83	1110710-44175	27 Jun 2008	12:30:00	1	0.1813	1.0	1.00
84	1106830-44321	27 Jun 2008	12:30:58	1	1.0774	1.0	1.00
85	830 DUP	27 Jun 2008	12:31:57	1	1.0690	1.0	1.00
86	830 SPK TV= 0.500	27 Jun 2008	12:32:55	1	1.5331	1.0	1.00
87	1109355-44503	27 Jun 2008	12:33:53	1	0.0605	1.0	1.00
88	1109356	27 Jun 2008	12:34:51	1	0.4841	1.0	1.00
89	1111264-44538	27 Jun 2008	12:35:48	1	0.6463	1.0	1.00
90	1111265	27 Jun 2008	12:36:45	1	0.0229	1.0	1.00
91	1111266	27 Jun 2008	12:37:45	1	0.0338	1.0	1.00
92	1111267	27 Jun 2008	12:38:44	1	0.0737	1.0	1.00
93	CCV	27 Jun 2008	12:39:43	1	1.6929	1.0	1.00
94	CCB	27 Jun 2008	12:40:42	1	0.0021	1.0	1.00
95	LCS	27 Jun 2008	12:41:41	1	0.4899	1.0	1.00
96	1096170-43634	27 Jun 2008	12:42:41	1	7.5863	1.0	1.00
97	1096171	27 Jun 2008	12:43:40	1	0.2431	5.0	1.00
98	1096173	27 Jun 2008	12:44:39	1	1.6043	1.0	1.00
99	1096174	27 Jun 2008	12:45:37	1	0.5798	1.0	1.00
100	174 DUP	27 Jun 2008	12:46:35	1	0.5768	1.0	1.00

- rpt @ #175 - 1/4
 - air spike - rpt @ #176

- air spike - rpt @ #177

- sm. air spike < PAL

- rpt @ #178 - 1/5
 - rpt @ #179 - str.

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 11:51:06
 DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A2.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 101 to 125

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
101	174 SPK TV= 0.500	27 Jun 2008	12:47:33	1	1.0139	1.0	1.00
102	1096175	27 Jun 2008	12:48:31	1	0.0166	1.0	1.00
103	1111763-44538	27 Jun 2008	12:49:30	1	0.1541	1.0	1.00
104	1111764	27 Jun 2008	12:50:28	1	0.4761	1.0	1.00
105	1111765	27 Jun 2008	12:51:26	1	0.0295	1.0	1.00
106	CCV	27 Jun 2008	12:52:25	1	1.6822	1.0	1.00
107	CCB	27 Jun 2008	12:53:24	1	0.0105	1.0	1.00 DK 0.6500 PQL
108	1106639-44305	27 Jun 2008	12:54:23	1	0.0168	1.0	1.00
109	1106640	27 Jun 2008	12:55:23	1	0.5284	1.0	1.00
110	1106641	27 Jun 2008	12:56:22	1	0.0085	1.0	1.00 } sm. neg. peaks - < PQL
111	641 DUP	27 Jun 2008	12:57:21	1	0.0094	1.0	1.00
112	641 SPK TV= 0.500	27 Jun 2008	12:58:20	1	0.3024	1.0	1.00
113	1106642	27 Jun 2008	12:59:19	1	0.0102	1.0	1.00
114	1106643	27 Jun 2008	13:00:18	1	0.5237	1.0	1.00
115	1106644	27 Jun 2008	13:01:17	1	0.8444	1.0	1.00
116	1106645	27 Jun 2008	13:02:15	1	0.0079	1.0	1.00 - sm. neg. peak - < PQL
117	1106646	27 Jun 2008	13:03:13	1	0.1730	1.0	1.00
118	CCV	27 Jun 2008	13:04:11	1	1.6973	1.0	1.00
119	CCB	27 Jun 2008	13:05:09	1	0.0024	1.0	1.00
120	LCS	27 Jun 2008	13:06:07	1	0.4849	1.0	1.00
121	1106647	27 Jun 2008	13:07:08	1	1.2239	1.0	1.00
122	1106648	27 Jun 2008	13:08:08	1	0.0505	1.0	1.00
123	1106649	27 Jun 2008	13:09:07	1	0.0084	1.0	1.00
124	1106650	27 Jun 2008	13:10:06	1	0.0061	1.0	1.00 - sm. neg. peak - < PQL
125	1112014-44647	27 Jun 2008	13:11:05	1	1029.8962	1000.0	1.00

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 11:51:06
C:\OMNION\DATA\080627A2.FDT
C:\OMNION\TRAYS\080627A2.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 126 to 150

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
126	1112018	27 Jun 2008	13:12:05	1	1529.5848	1000.0	1.00	
127	1112019	27 Jun 2008	13:13:04	1	1771.7091	1000.0	1.00	
128	PB SOIL	27 Jun 2008	13:14:03	1	0.0249	1.0	1.00	= 45.00
129	LCS-SOIL TV= 50.0	27 Jun 2008	13:15:02	1	0.4840	1.0	1.00	= 48.40
130	FILTER BLANK	27 Jun 2008	13:16:01	1	0.0041	1.0	1.00	
131	CCV	27 Jun 2008	13:16:59	1	1.7042	1.0	1.00	
132	CCB	27 Jun 2008	13:17:58	1	0.0142	1.0	1.00	< PQL for 0.050
133	FILTERED LCS TV= 0.50	27 Jun 2008	13:18:56	1	0.4920	1.0	1.00	
134	1112111S-44647	27 Jun 2008	13:19:54	1	16.5839	20.0	1.00	= 1658.39
135	111S DUP	27 Jun 2008	13:20:52	1	16.5830	20.0	1.00	= 1658.30
136	111S SPK TV= 50.0	27 Jun 2008	13:21:52	1	26.3748	20.0	1.00	= 2637.48
137	1112112S	27 Jun 2008	13:22:53	1	21.4132	20.0	1.00	air spike - rpt @ # 183
138	MB R-44666	27 Jun 2008	13:23:53	1	0.0071	1.0	1.00	= 5.00 0.500u
139	1112361-44666	27 Jun 2008	13:24:52	1	0.0026	1.0	1.00	= 5.00 0.500u
140	1112362	27 Jun 2008	13:25:52	1	0.0051	1.0	1.00	= 5.00 0.500u
141	362 DUP	27 Jun 2008	13:26:51	1	0.0443	1.0	1.00	= 5.00 0.500u
142	362 SPK TV= 0.500	27 Jun 2008	13:27:50	1	0.4972	1.0	1.00	= 50.72 4.972 0.500u
143	CCV	27 Jun 2008	13:28:49	1	1.6976	1.0	1.00	
144	CCB	27 Jun 2008	13:29:48	1	0.0059	1.0	1.00	tray ends here
145	LCS	27 Jun 2008	13:30:47	1	0.0003	1.0	1.00	no recovery -
146	1112363	27 Jun 2008	13:31:47	1	0.0052	1.0	1.00	repour + report
147	1112364	27 Jun 2008	13:32:45	1	0.0000	1.0	1.00	tray from #143
148	1112365	27 Jun 2008	13:33:43	1	0.0099	1.0	1.00	
149	1112486-44650	27 Jun 2008	13:34:41	1	0.0031	1.0	1.00	
150	1112487	27 Jun 2008	13:35:39	1	0.0060	1.0	1.00	

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 13:39:43
C:\OMNION\DATA\080627A3.FDT
C:\OMNION\TRAYS\080627A3.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 126 to 150

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
143	CCV	27 Jun 2008	13:39:47	1	1.6862	1.0	1.00
144	CCB	27 Jun 2008	13:40:45	1	0.0054	1.0	1.00
145	LCS	27 Jun 2008	13:41:45	1	0.4873	1.0	1.00
146	1112363	27 Jun 2008	13:42:44	1	-0.0000	1.0	1.00
147	1112364	27 Jun 2008	13:43:42	1	0.0003	1.0	1.00
148	1112365	27 Jun 2008	13:44:40	1	0.0099	1.0	1.00
149	1112486-44650	27 Jun 2008	13:45:38	1	0.0035	1.0	1.00
150	1112487	27 Jun 2008	13:46:36	1	0.0068	1.0	1.00

Handwritten notes:
 < 0.500 CL 6/30/08
 = < 5.00 } Sm. neg. peaks
 = < 5.00 } < P QL
 = < 5.00 }

Handwritten notes:
 i0 → 250ml
 ✓ ↓

Handwritten notes:
 500 25g → 250ml

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 13:39:43
 DATA FILENAME: C:\OMNION\DATA\080627A3.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A3.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 151 to 175

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
151	1112488	27 Jun 2008	13:47:37	1	9.0690	1.0	1.00
152	1112489	27 Jun 2008	13:48:37	1	0.0097	1.0	1.00
153	1109708-44538	27 Jun 2008	13:49:37	1	0.0208	1.0	1.00
154	1111727-44621	27 Jun 2008	13:50:38	1	0.0447	1.0	1.00
155	1105207-44175	27 Jun 2008	13:51:37	1	0.6987	1.0	1.00
156	CCV	27 Jun 2008	13:52:36	1	1.6810	1.0	1.00
157	CCB	27 Jun 2008	13:53:35	1	0.0067	1.0	1.00
158	1110578 RPT	27 Jun 2008	13:54:35	1	0.0256	1.0	1.00
159	1111042 RPT	27 Jun 2008	13:55:34	1	0.0218	1.0	1.00
160	1111047 RPT	27 Jun 2008	13:56:33	1	0.0232	1.0	1.00
161	1111984-44621	27 Jun 2008	13:57:32	1	0.0175	1.0	1.00
162	1111983 DUP RPT	27 Jun 2008	13:58:31	1	0.0078	1.0	1.00
163	CRDL - 0.010 RPT	27 Jun 2008	13:59:30	1	0.0137	1.0	1.00
164	1111985 RPT	27 Jun 2008	14:00:28	1	0.0820	1.0	1.00
165	1093541 RPT 1/10	27 Jun 2008	14:01:26	1	12.2079	10.0	1.00
166	541 DUP RPT 1/10	27 Jun 2008	14:02:26	1	12.1388	10.0	1.00
167	541 SPK RPT 1/10	27 Jun 2008	14:03:27	1	16.1856	10.0	1.00
168	CCV	27 Jun 2008	14:04:27	1	1.7171	1.0	1.00
169	CCB	27 Jun 2008	14:05:27	1	-0.0000	1.0	1.00
170	LCS	27 Jun 2008	14:06:26	1	0.4895	1.0	1.00
171	1093543 RPT 1/20	27 Jun 2008	14:07:26	1	22.6764	20.0	1.00
172	1105206 RPT	27 Jun 2008	14:08:25	1	0.1184	1.0	1.00
173	206 DUP RPT	27 Jun 2008	14:09:24	1	0.1162	1.0	1.00
174	1105209 RPT STR	27 Jun 2008	14:10:23	1	1.4275	1.0	1.00
175	1105215 RPT 1/4	27 Jun 2008	14:11:22	1	3.5909	4.0	1.00

- P + @ #184-1/10

- okay

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 13:39:43
 DATA FILENAME: C:\OMNION\DATA\080627A3.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A3.TRA

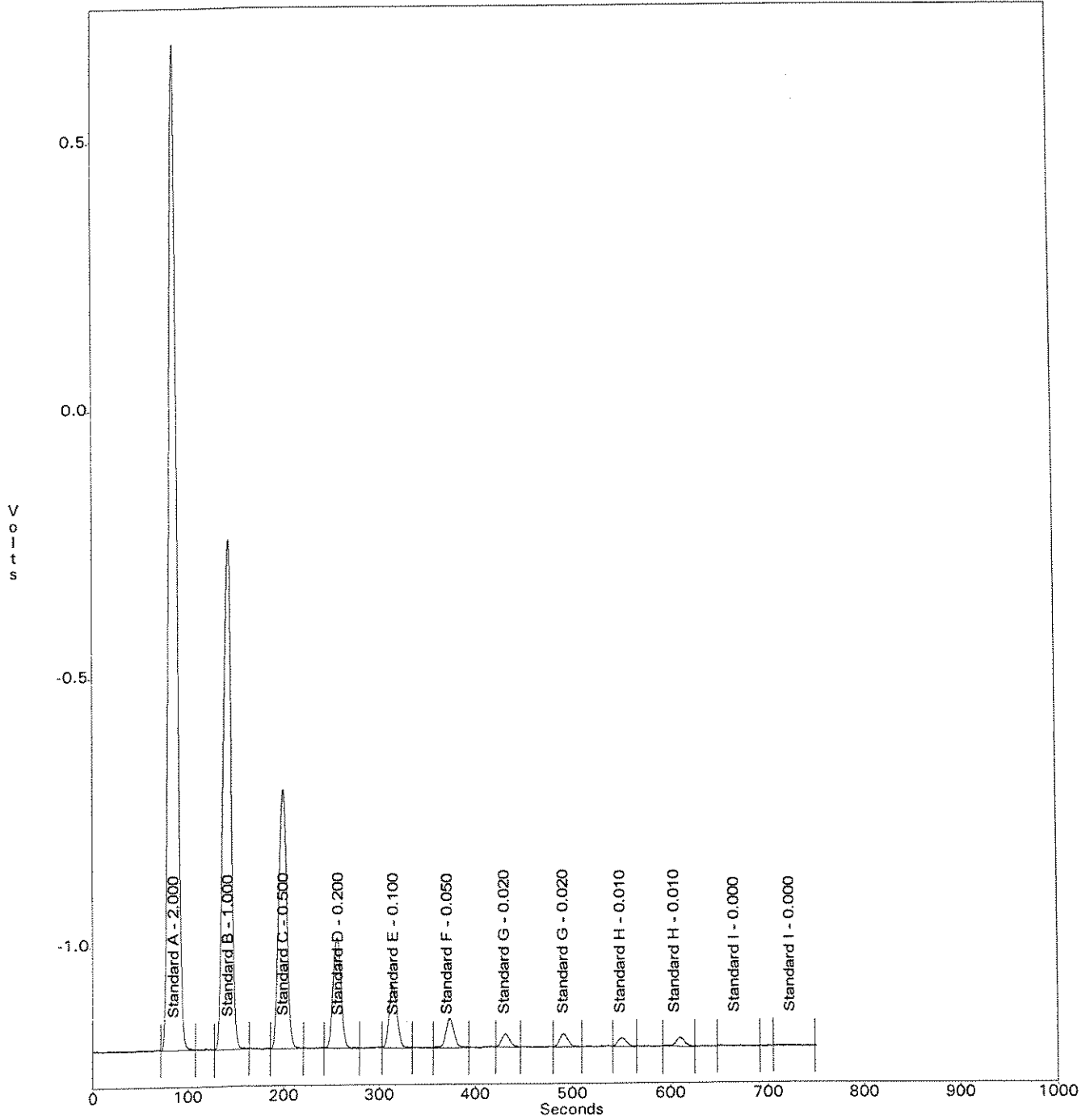
Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 176 to 200

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
176	1110532 RPT	27 Jun 2008	14:12:22	1	0.1190	1.0	1.00
177	1109355 RPT	27 Jun 2008	14:13:21	1	0.0572	1.0	1.00
178	1096170 RPT 1/5	27 Jun 2008	14:14:20	1	8.4101	5.0	1.00
179	1096171 RPT STR	27 Jun 2008	14:15:18	1	0.1367	1.0	1.00
9 → 100 mL 180	1112112S RPT 1/20	27 Jun 2008	14:16:16	1	21.2707	20.0	1.00 = 2127.07
181	CCV	27 Jun 2008	14:17:17	1	1.7212	1.0	1.00
182	CCB	27 Jun 2008	14:18:17	1	0.0015	1.0	1.00
5.0 → 250 mL 183	1112361 RPT	27 Jun 2008	14:19:17	1	0.0017	1.0	1.00 = CK 6/30/08 ← 5.00 < 0.500
184	1112488 RPT 1/10	27 Jun 2008	14:20:17	1	10.1848	10.0	1.00
185	CCV	27 Jun 2008	14:21:18	1	1.7022	1.0	1.00
186	CCB	27 Jun 2008	14:22:18	1	-0.0000	1.0	1.00

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 10:35:16
C:\OMNION\DATA\0806270A.FDT
C:\OMNION\TRAYS\0806270A.TRA

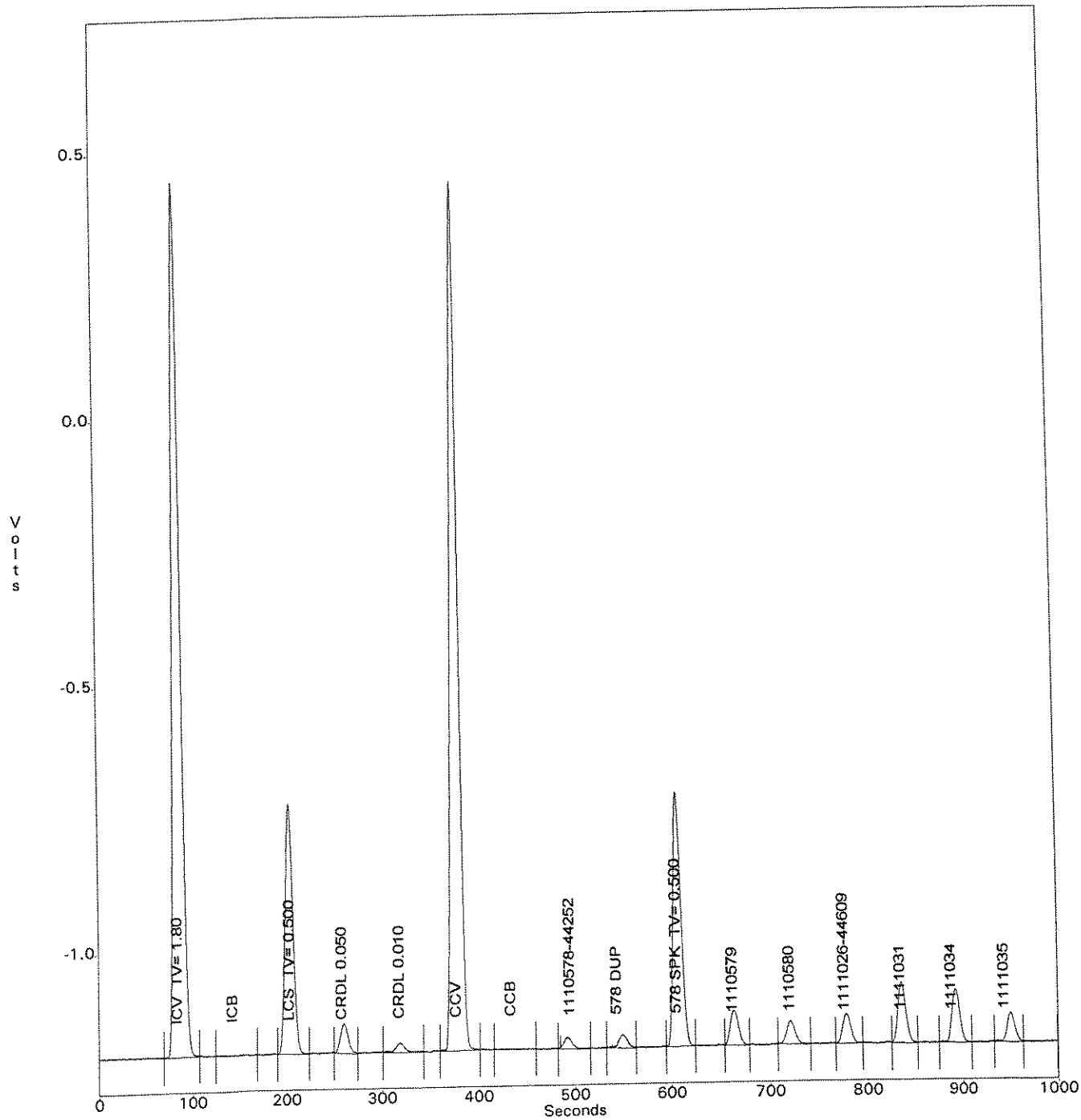
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 10:50:13
C:\OMNION\DATA\080627A1.FDT
C:\OMNION\TRAYS\0806270A.TRA

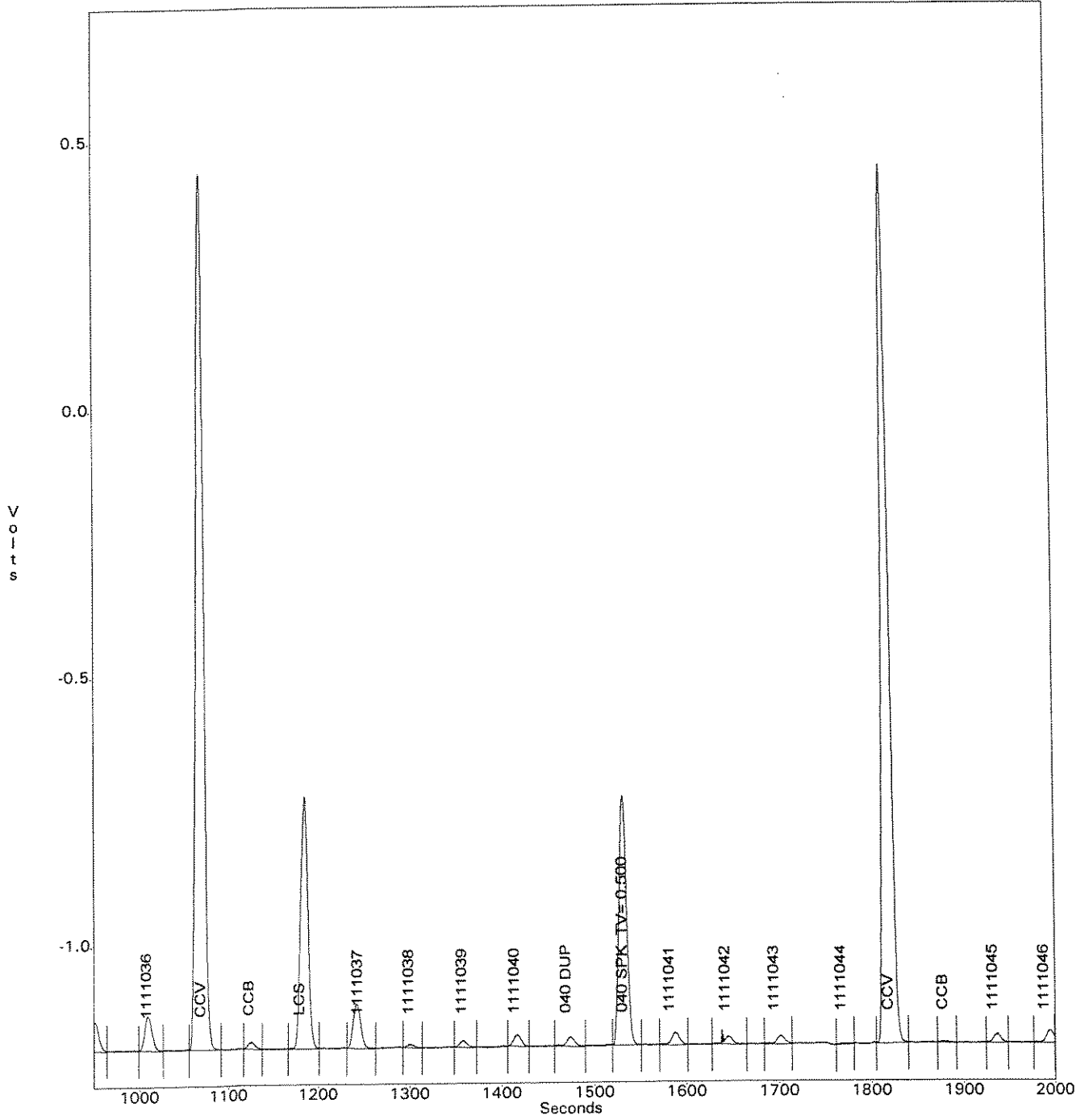
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 10:50:13
C:\OMNION\DATA\080627A1.FDT
C:\OMNION\TRAYS\0806270A.TRA

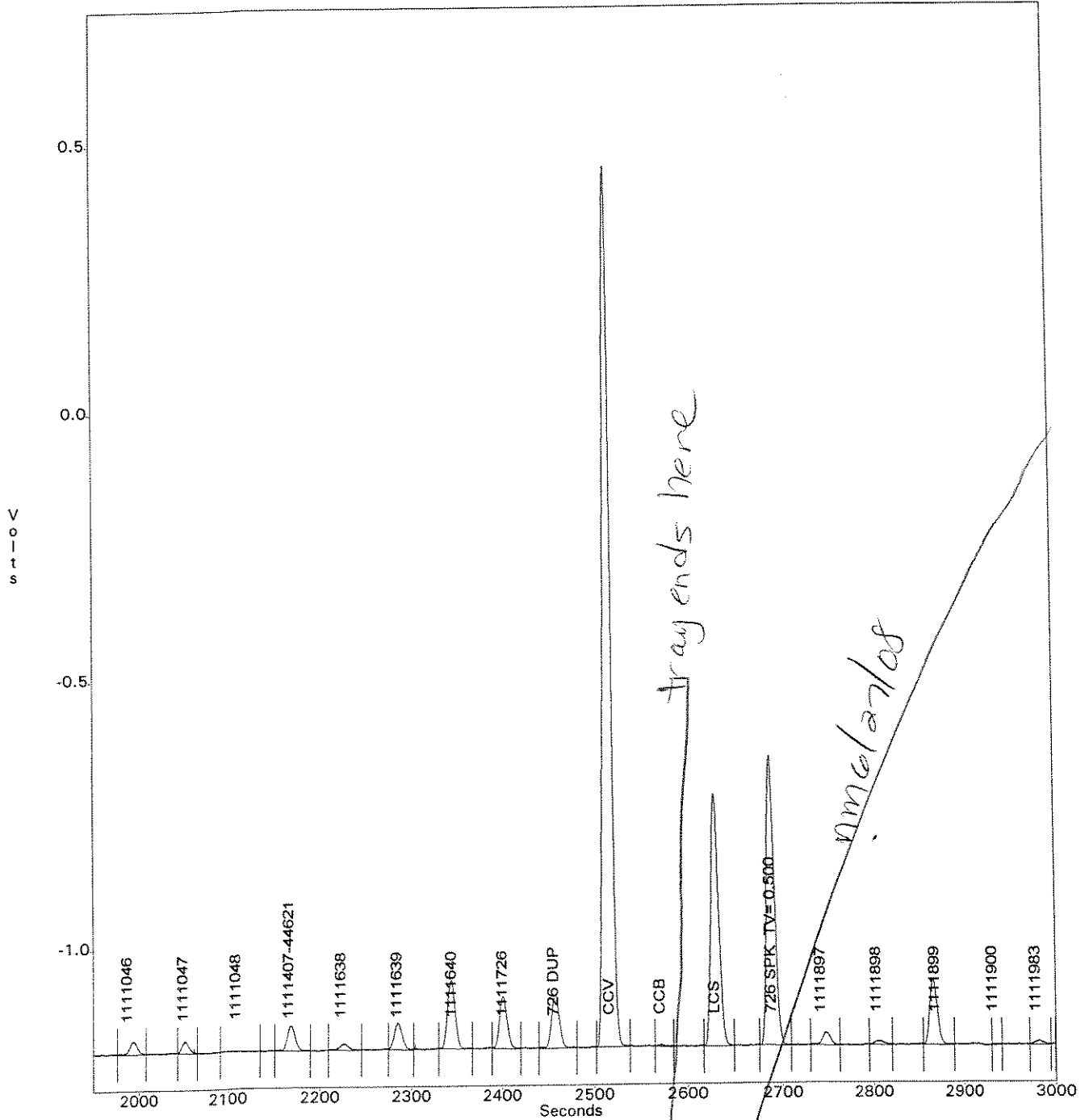
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 10:50:13
C:\OMNION\DATA\080627A1.FDT
C:\OMNION\TRAYS\0806270A.TRA

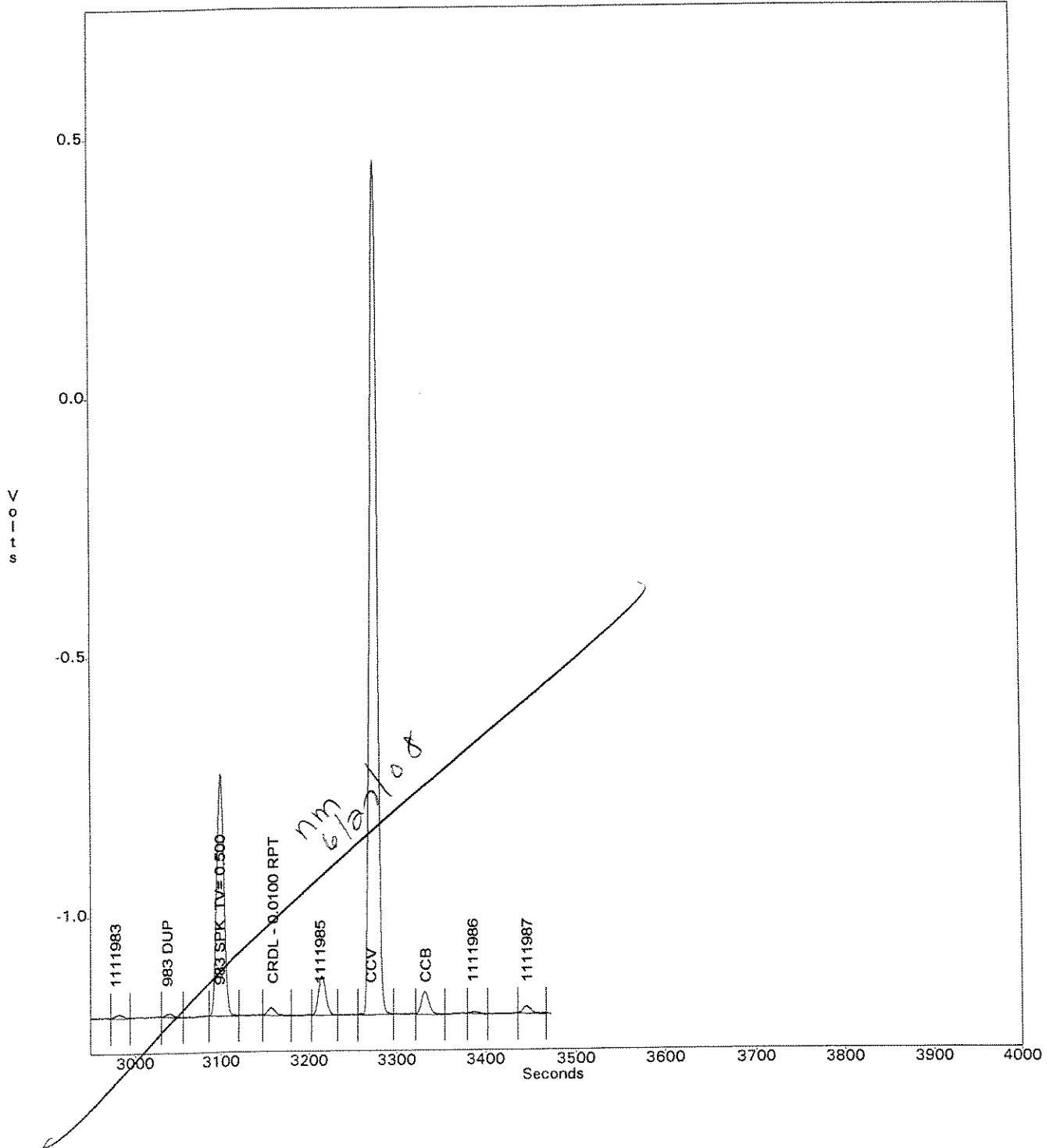
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 10:50:13
C:\OMNION\DATA\080627A1.FDT
C:\OMNION\TRAYS\0806270A.TRA

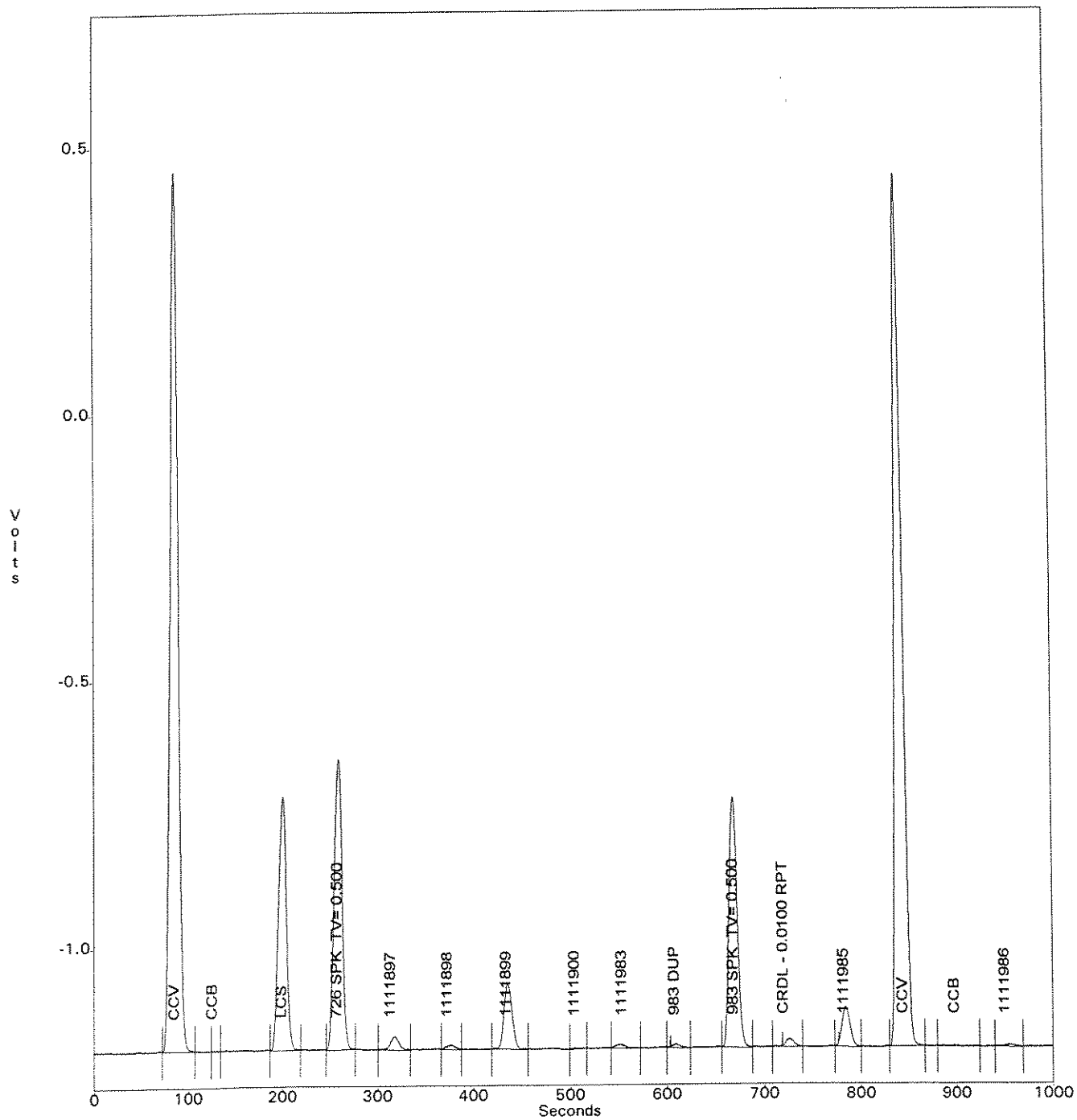
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 11:51:06
C:\OMNION\DATA\080627A2.FDT
C:\OMNION\TRAYS\080627A2.TRA

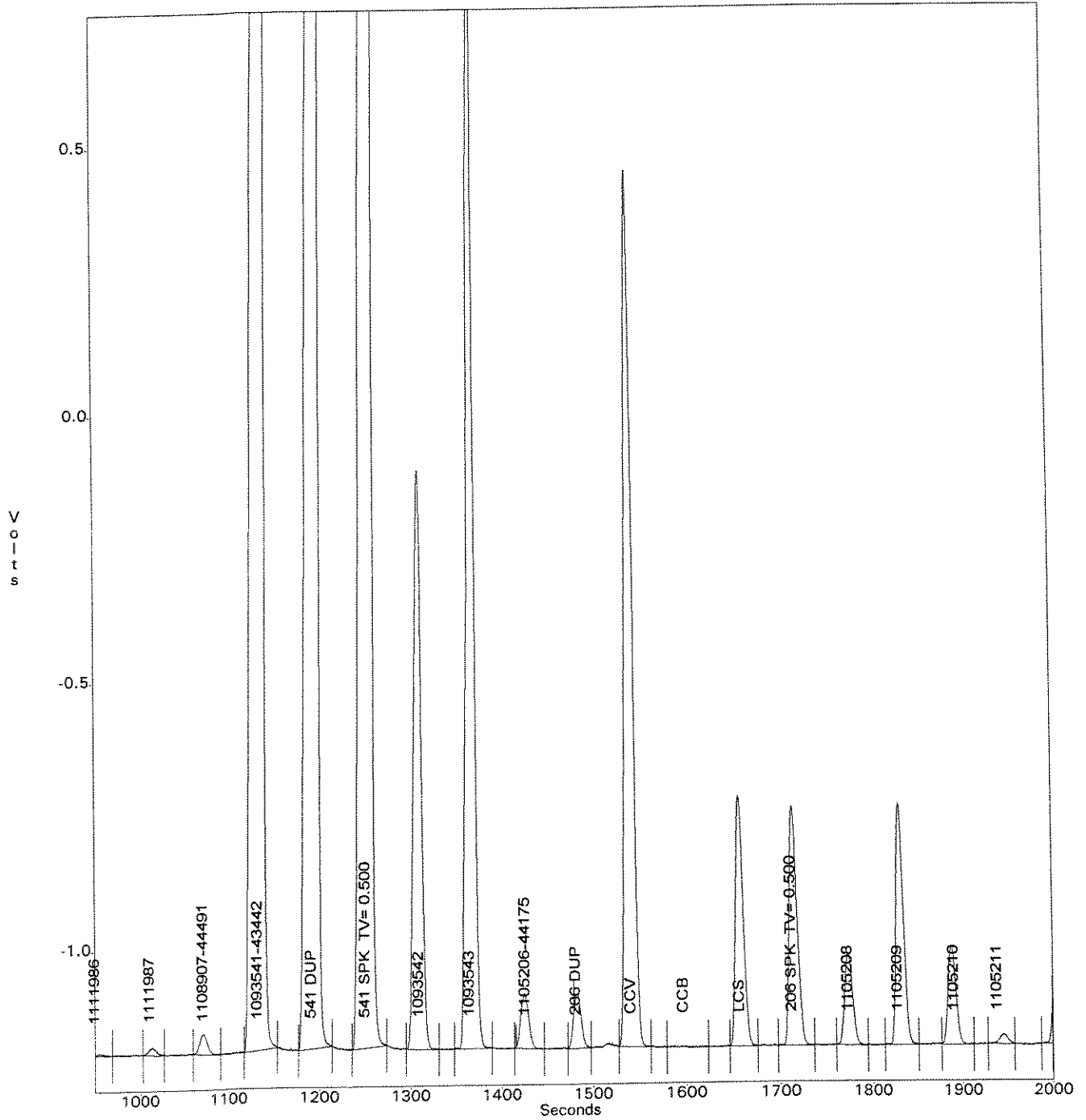
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 11:51:06
C:\OMNION\DATA\080627A2.FDT
C:\OMNION\TRAYS\080627A2.TRA

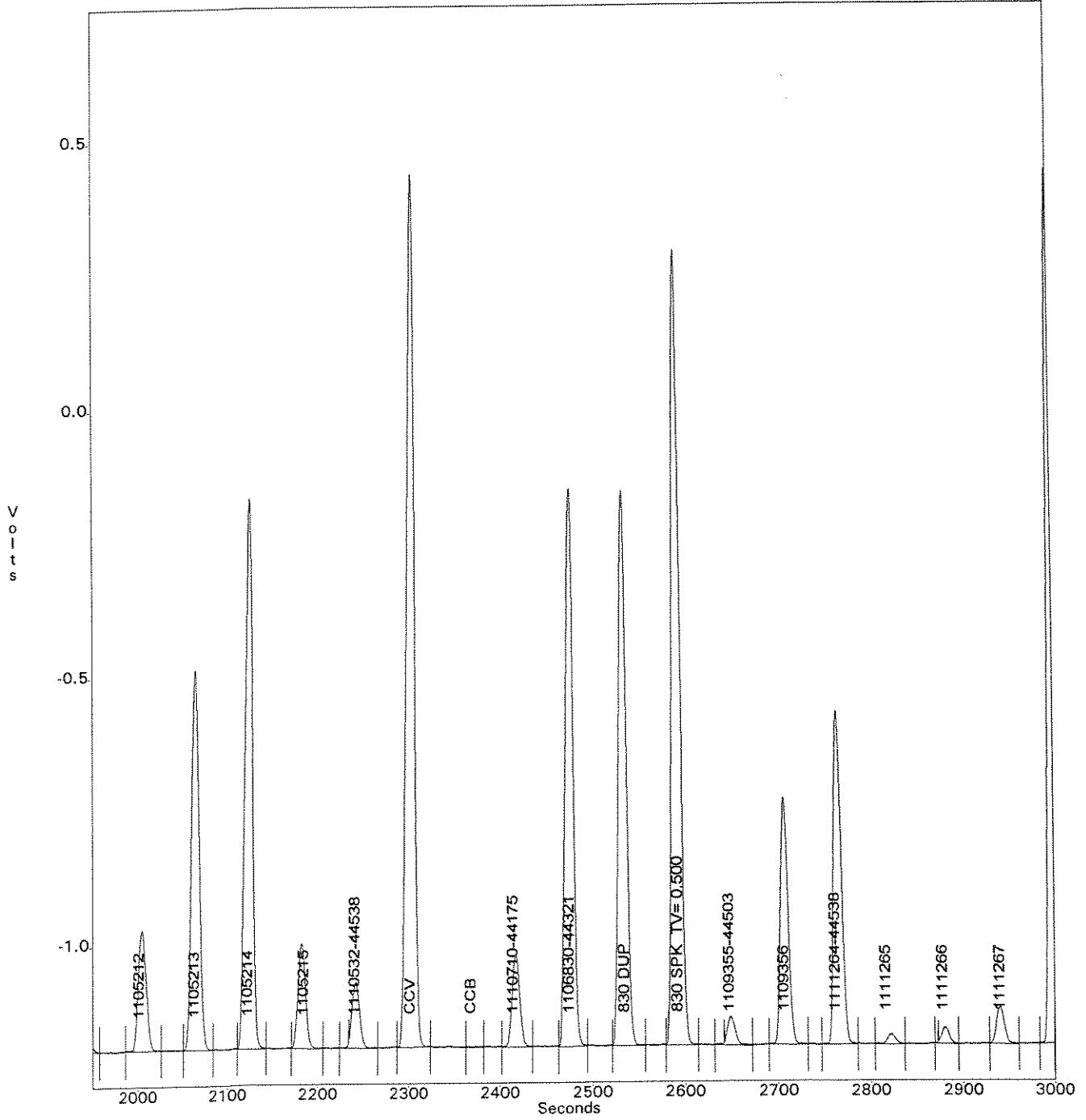
Channel 1 - OC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 11:51:06
C:\OMNION\DATA\080627A2.FDT
C:\OMNION\TRAYS\080627A2.TRA

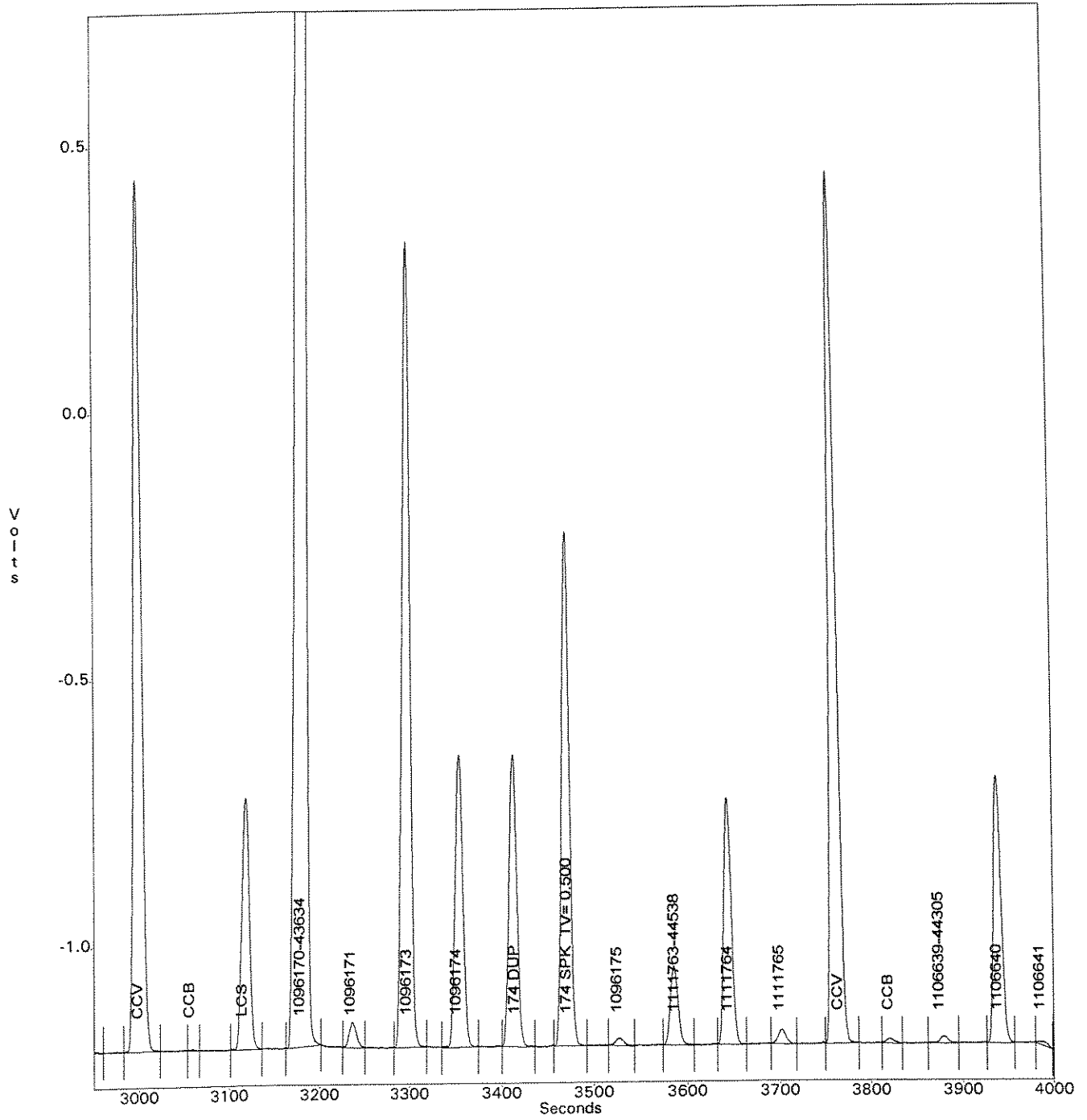
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 11:51:06
C:\OMNION\DATA\080627A2.FDT
C:\OMNION\TRAYS\080627A2.TRA

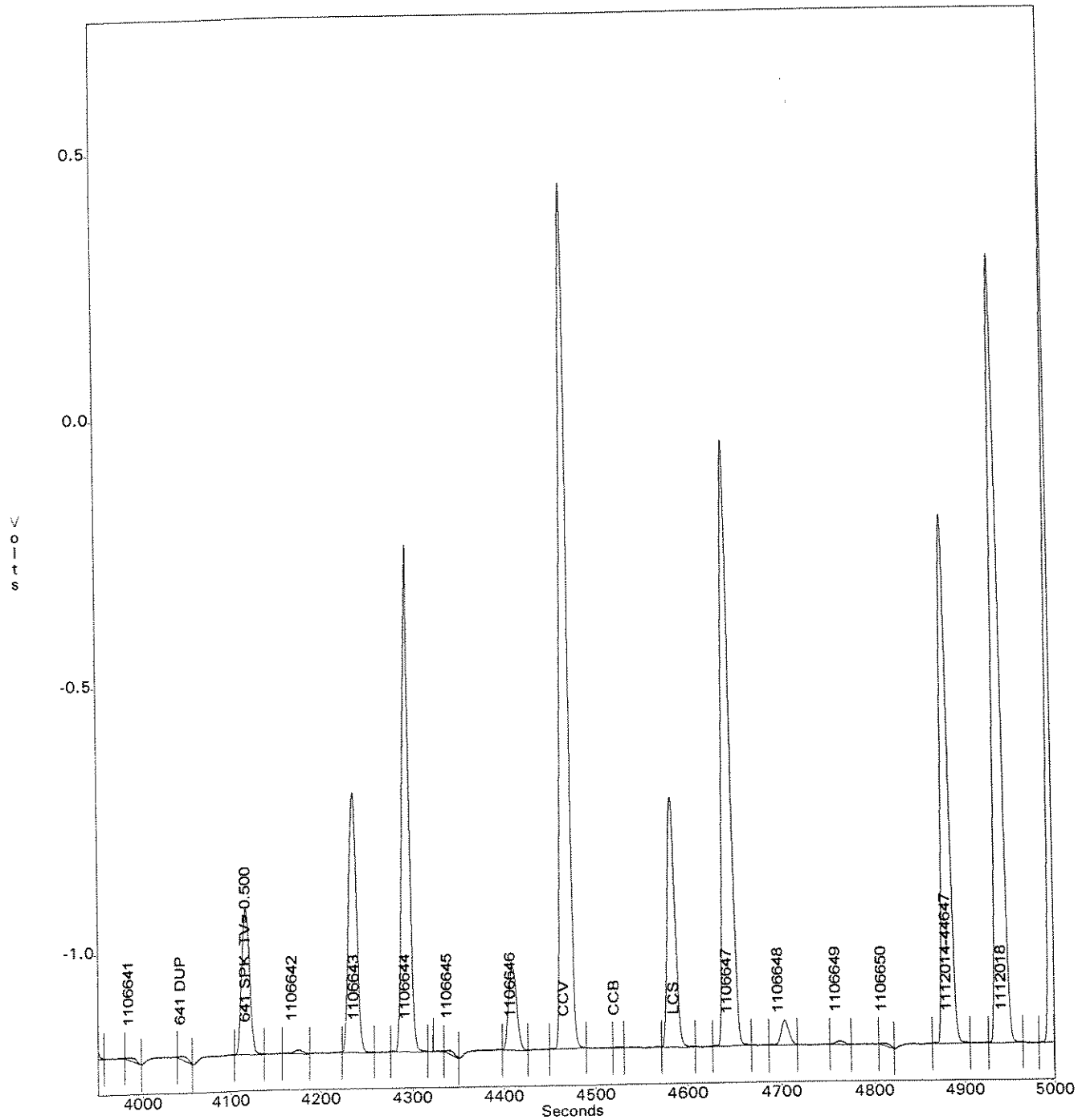
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 11:51:06
C:\OMNION\DATA\080627A2.FDT
C:\OMNION\TRAYS\080627A2.TRA

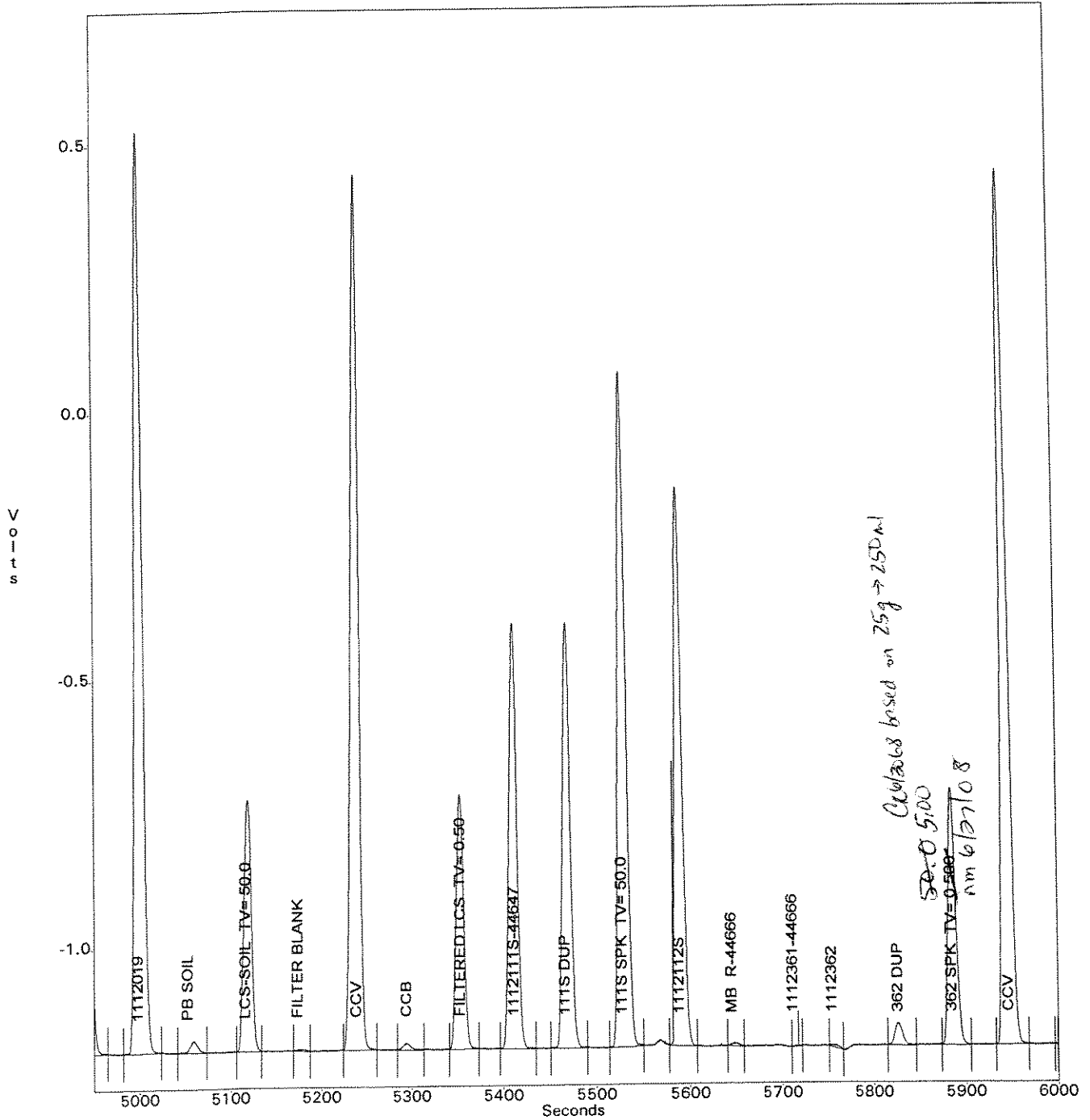
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 11:51:06
C:\OMNION\DATA\080627A2.FDT
C:\OMNION\TRAYS\080627A2.TRA

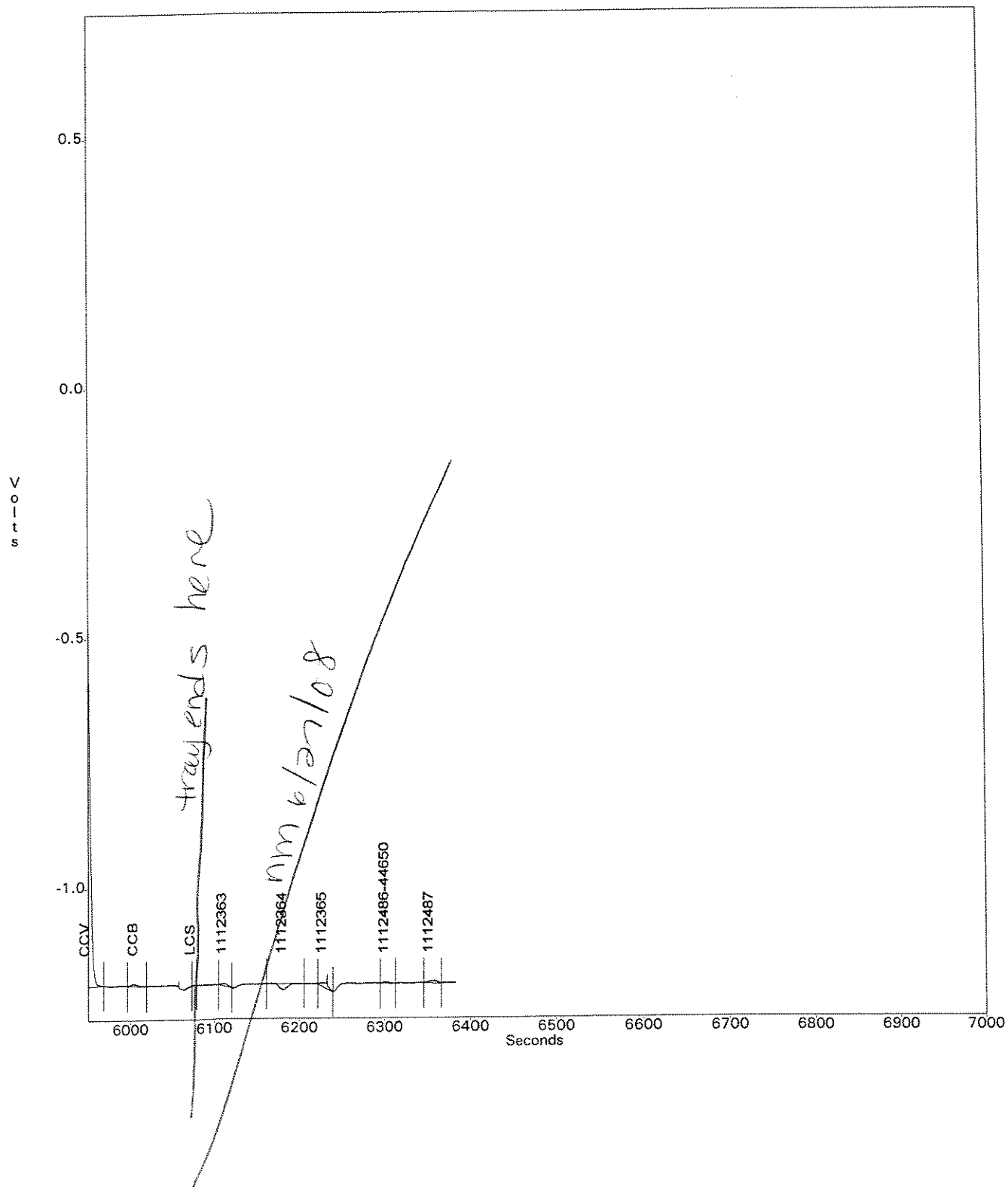
Channel 1 - OC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 11:51:06
C:\OMNION\DATA\080627A2.FDT
C:\OMNION\TRAYS\080627A2.TRA

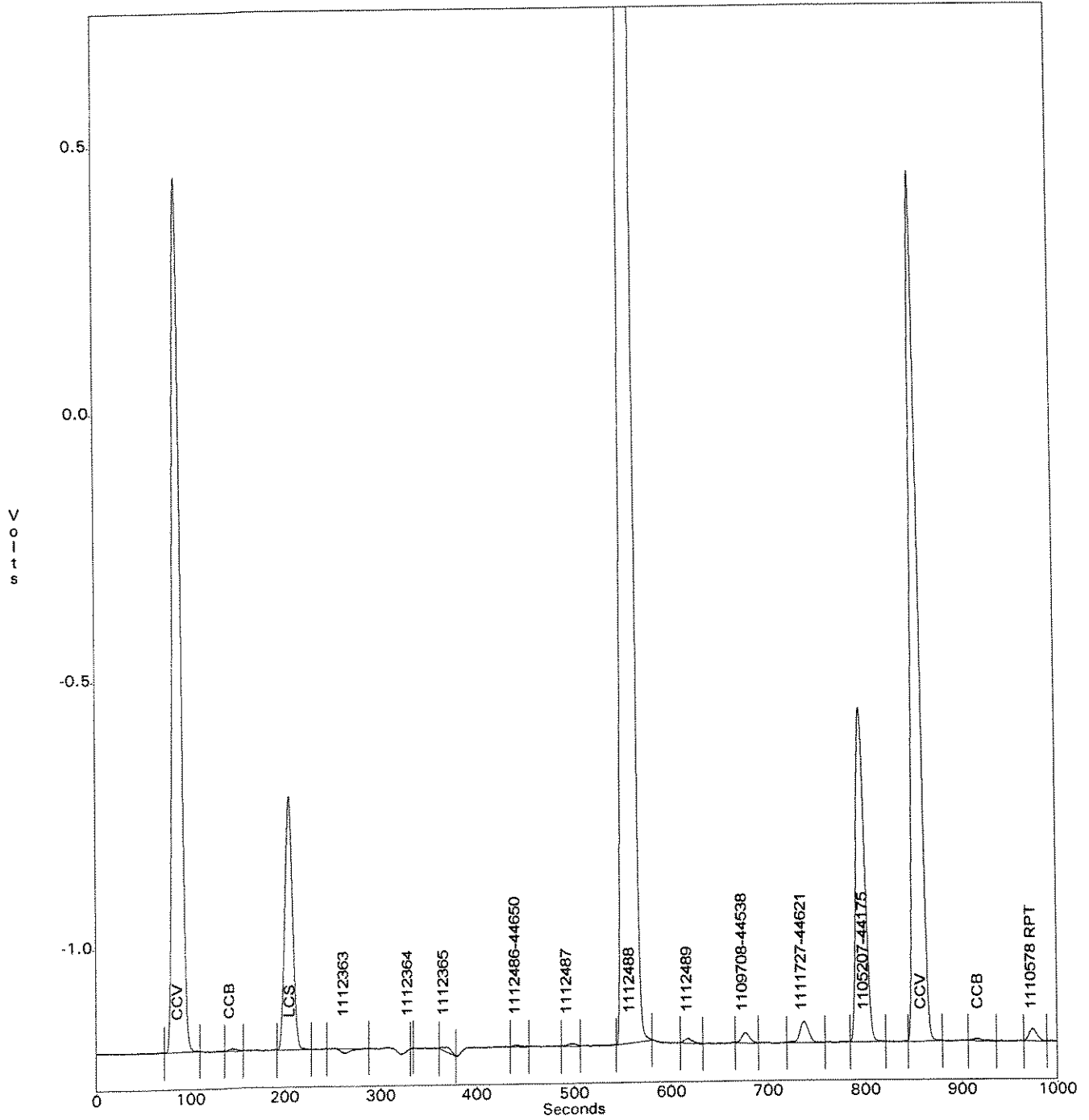
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

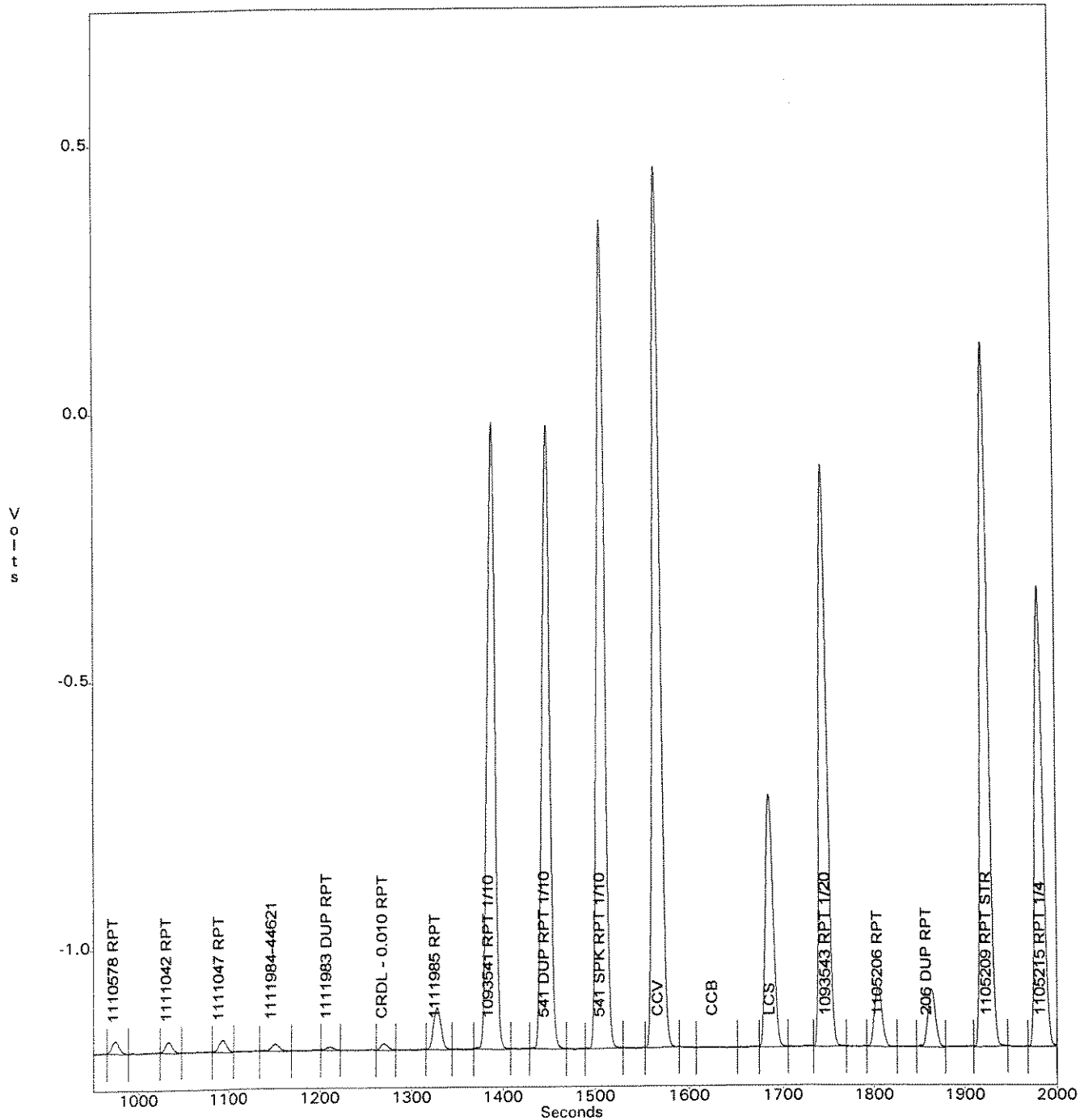
NMEAD
Jun 27, 2008 13:39:43
C:\OMNION\DATA\080627A3.FDT
C:\OMNION\TRAYS\080627A3.TRA

Channel 1 - OC 8000 350.1 Ammonia



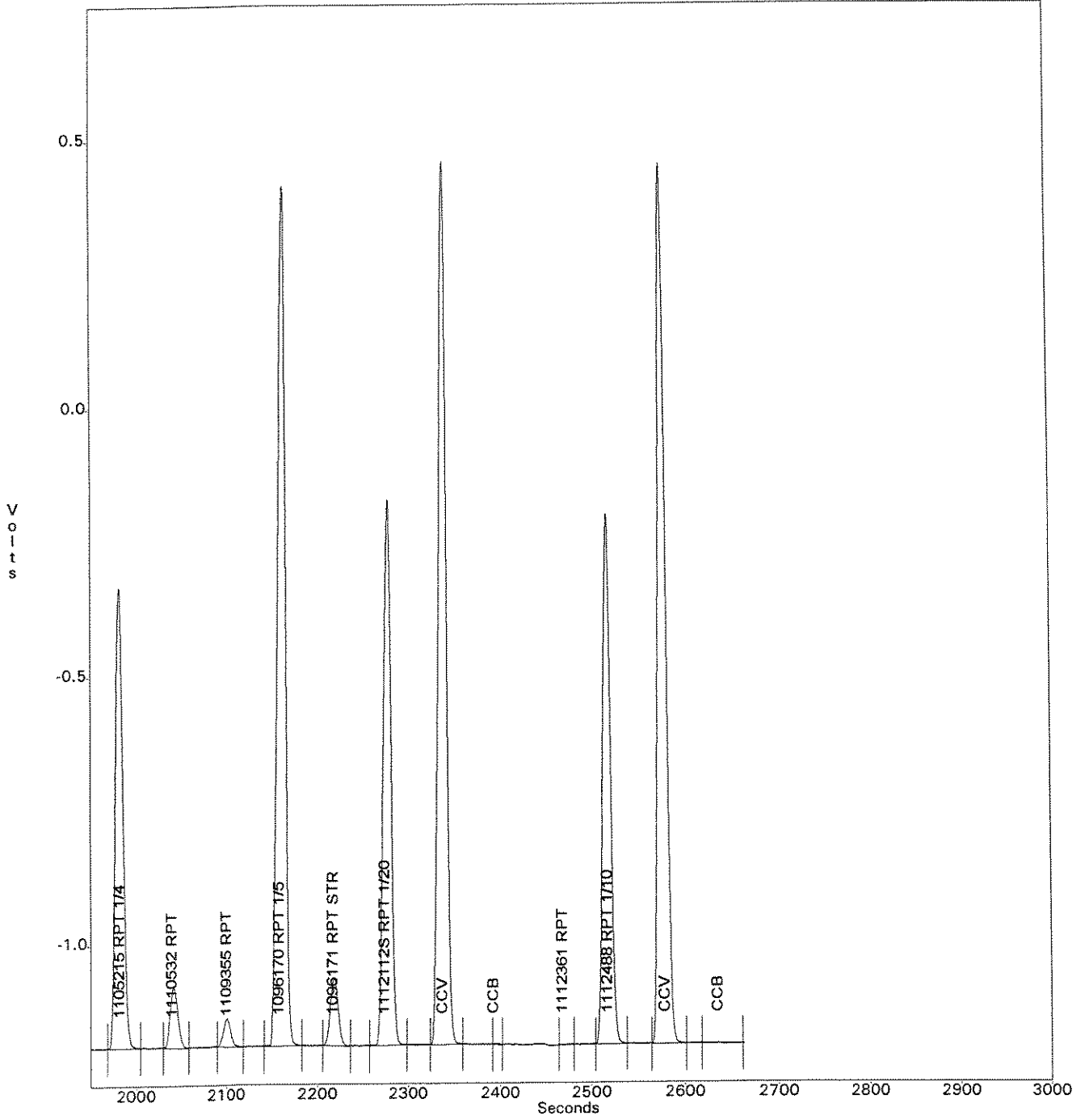
OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 13:39:43
DATA FILENAME: C:\OMNION\DATA\080627A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080627A3.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 13:39:43
DATA FILENAME: C:\OMNION\DATA\080627A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080627A3.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 10:35:16
DATA FILENAME: C:\OMNION\DATA\0806270A.FDT
METHOD FILENAME:
TRAY FILENAME: C:\OMNION\TRAYS\0806270A.TRA

TRAY DESCRIPTION:
Created: Jun 27, 2008 9:54:35
Modified: Jun 27, 2008 10:27:12
QC 8000 350.1 Ammonia - RUN LOG - 0806270A
DATA DESCRIPTION:
Created: Jun 27, 2008 10:35:16
Modified: Jun 27, 2008 10:35:16

Method - Ch. 1 (QC 8000 350.1 Ammonia)

METHOD DESCRIPTION:
Created: Jun 8, 2007 13:44:01
Modified: Jun 27, 2008 10:35:03
Ammonia

ANALYTE DATA:
Analyte Name: QC 8000 350.1 Ammonia
Concentration Units: mg/L
Chemistry: Direct
Inject to Peak Start (s): 28.5
Peak Base Width (s): 22.000
% Width Tolerance: 50.000
Threshold: 2877.000
Autodilution Trigger: Off
QuikChem Method:

CALIBRATION DATA:

Levels:

1 : 2.000	2 : 1.000	3 : 0.500	4 : 0.200
5 : 0.100	6 : 0.050	7 : 0.020	8 : 0.010
9 : 0.000			

Calibration Rep Handling: Average
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: 1/X
Concentration Scaling: None

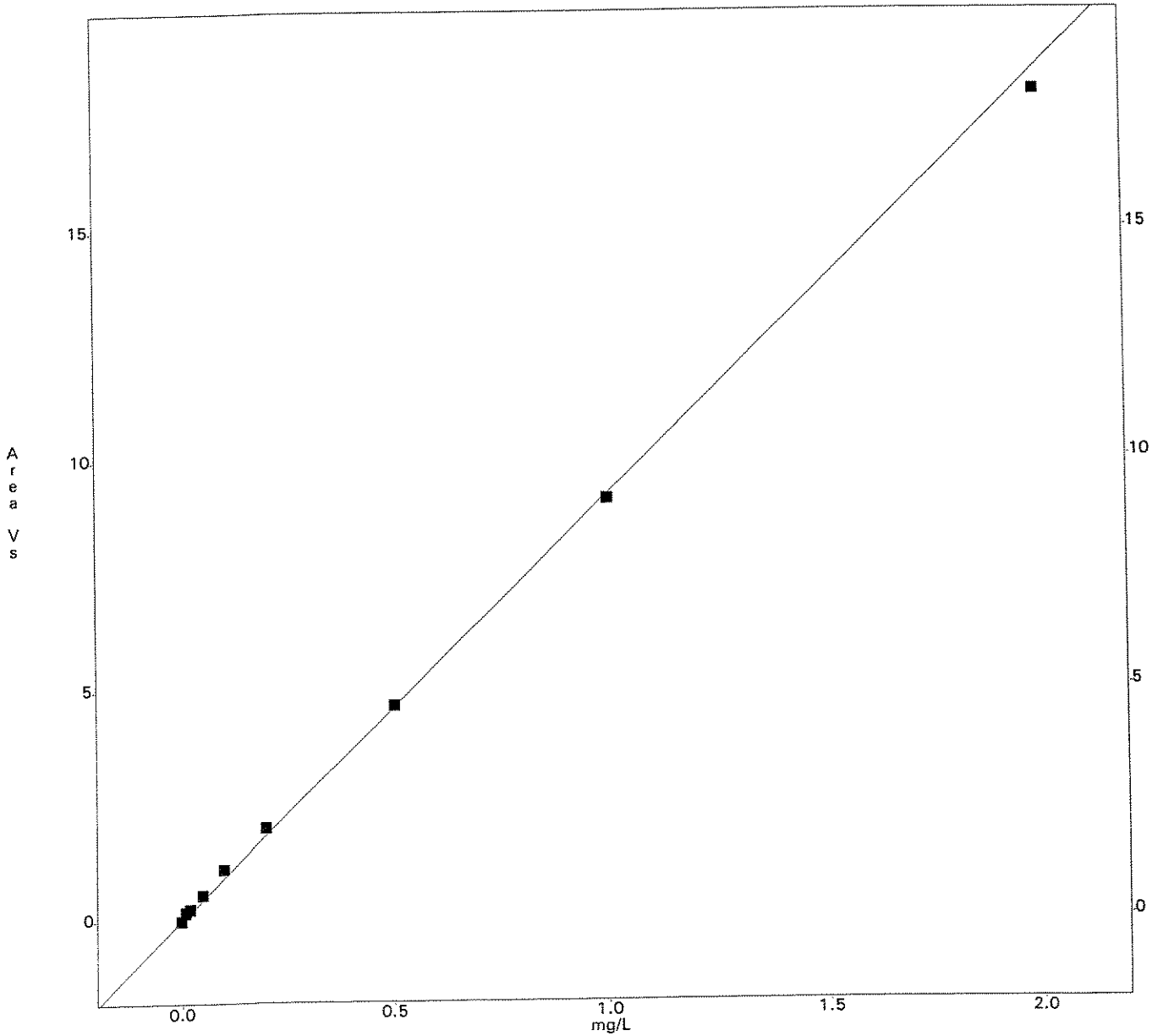
QC 8000 350.1 Ammonia

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	17981330	2.00	17981330					0.0	0.0	2.6
2	9108295	1.00	9108295					0.0	0.0	1.4
3	4647735	0.50	4647735					0.0	0.0	-0.7
4	2001638	0.20	2001638					0.0	0.0	-8.4
5	1109472	0.10	1109472					0.0	0.0	-20.1
6	559443	0.05	559443					0.0	0.0	-21.2
7	246349	0.02	250758	241939				6236.0	2.5	-33.4
8	176902	0.01	186662	167142				13802.7	7.8	-91.6
9	0	0.00	0	0				0.0	0.0	

1st Order Poly
 Conc = 1.083e-007 Area - 1.205e-007
 r = 0.9995

*pipette IDIS: E-1
 ALI*

Scaling: None - Weighting: 1/X



Printed: Friday, June 27, 2008 - 10:48 AM

Columbia Analytical Services
 1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: N. Mead

Date: 6/27/08

Analysis: Ammonia

Instrument: Lachat

Quality Control:

	Same as Log#, Date,	Stocks Prep. Log#, Date,	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:	WC65166A, 4/7/03	WC85101A, 1/23/08				
b) ICV Preparation:	WC65166B, 4/7/03	WC85101B, 1/23/08	1	18	10	1.80
c) LCS Preparation:	WC65166D, 4/7/03	WC85101A, 1/23/08	0.05	100	10	0.50
d) Matrix Spike Prep.:	WC65166D, 4/7/03	WC85101A, 1/23/08	0.05	100	10	0.50

Instrument log filled in? (Y) (N)

Packages: Copy and attach Standards Preparation

Comments:

Production:

	Start Time	End Time	Total (minutes)
Preparation Time :			
Analytical Time:			
Finish Time:			

of Samples (including Mtx QC): _____
 Repeats due to Sample: _____
 Repeats due to Error: _____

p:\greglforms\cover.no2

4/7/03
DMG

Ammonia (NH₃) [Laekat: pp1 = 0.050 Reg Level, 0.010 - Low Level]

(A) STANDARDS

STD.	CONC (mg/L)	mls 10ppm (wcb5166C)	mls Carrier-Diluent (wcb5165F)
A	2.000	2.00	8.00
B	1.000	1.00	9.00
C	0.500	0.50	9.50
D	0.200	0.20	9.80
E	0.100	1/10 Dil'n of STD B.) 1.000	
F	0.050	1/10 Dil'n of STD C.) 0.500	
G	0.020	1/10 Dil'n of STD D.) 0.200	
H	0.010	1/10 Dil'n of STD E.) 0.100	
I	0.000	10 mls of Carrier-Diluent	

(B) Icv/ccv: (TV = 1.80 mg/L)

Do two (2) 1/10 serial dilutions of the 180 ppm Reference Stock (wcb5156B). Prepare using Carrier-Diluent (wcb5165F)

(C) 10.0 ppm Working Stock

Do two (2) 1/10 serial dilutions of the 1000 ppm Standard Stock (wcb5156A). Prepare using Carrier-Diluent (wcb5165F)

(D) LES/Matrix Spike: (TV = 0.500 mg/L)

Add 0.050 mls 100 ppm working Stock (wcb5166C, 1st 1/10 serial dilution) to 10 mls Carrier-Diluent (wcb5165F) or sample.

23/08
Nm

(A) NH₃/TKN 1000 ppm Standard Stock

3.819 granular NH₄Cl (WC85085F), previously dried for 2 hrs. @ 104°C: dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume w/ DI. Store @ 4°C. in amber glass. Expires 1/23/09.

(B) NH₃ 180 ppm Reference Stock

0.687g granular NH₄Cl (WC85085G), previously dried for 2 hrs. @ 104°C: dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume with DI. Store @ 4°C in amber glass. Expires 1/23/09.

(C) TKN 400 ppm Reference Stock

1.5276g granular NH₄Cl (WC85085G), previously dried for 2 hrs. @ 104°C: dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume with DI. Store @ 4°C. in amber glass. Expires 1/23/09.



Run #: 163366

Analyte: NH3 350.1M AMMONIA

Printed: 07/03/08 15:37

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114922	WATER	1.64	1.0	0.0500	91.4		07/03/2008		
BLK1		1114923	WATER	0.0500	U	1.0	0.0500		07/03/2008		
SPKB		1114924	WATER	0.472		1.0	0.0500	94.4	07/03/2008		
SPKB		1114926	WATER	0.470		1.0	0.0500	94.1	07/03/2008		
ESMP	R2844650	1112065	WATER	0.0500	U	1.0	0.0500		07/03/2008	RUN	ASPB
ESMP	R2844650	1112066	WATER	0.104		1.0	0.0500		07/03/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.0500	U	1.0	0.0500		07/03/2008		ASPB
ESMP	R2844650	1112809	WATER	0.0500	U	1.0	0.0500		07/03/2008		ASPB
ESMP	R2844650	1112810	WATER	0.0960		1.0	0.0500		07/03/2008		ASPB
ESMP	R2844650	1112811	WATER	0.0500	U	1.0	0.0500		07/03/2008		ASPB
ESMP	R2844650	1112812	WATER	0.0500	U	1.0	0.0500		07/03/2008		ASPB
ESMP	R2844650	1112871	WATER	1.90		1.0	0.0500		07/03/2008		ASPB
ESMP	R2844650	1112872	WATER	0.372		1.0	0.0500		07/03/2008		ASPB
ESMP	R2844727	1112873	WATER	1690	1000.0	0.0500			07/03/2008		1
ESMP	R2844650	1112874	WATER	0.0500	U	1.0	0.0500		07/03/2008	QC	ASPB
LDUP		1114927	WATER	0.0500	U	1.0	0.0500		07/03/2008		
SPK1		1114928	WATER	0.482		1.0	0.0500	96.3	1		
ESMP	R2844734	1113042	WATER	0.0668		1.0	0.0500		07/03/2008		2
ESMP	R2844734	1113043	WATER	0.360		1.0	0.0500		07/03/2008		2
ESMP	R2844734	1113044	WATER	0.0500	U	1.0	0.0500		07/03/2008		2
ESMP	R2844734	1113045	WATER	0.0500	U	1.0	0.0500		07/03/2008		2
SPKB		1114930	WATER	0.473		1.0	0.0500	94.7	07/03/2008		
ESMP	R2844734	1113046	WATER	0.194		1.0	0.0500		07/03/2008	QC	2
LDUP		1114931	WATER	0.188		1.0	0.0500		07/03/2008		
SPK1		1114932	WATER	0.606		1.0	0.0500	82.3	07/03/2008		
ESMP	R2844734	1113047	WATER	0.0857		1.0	0.0500		07/03/2008		2
ESMP	R2844734	1113048	WATER	0.356		1.0	0.0500		07/03/2008		
BLK5		1114935	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008		ASPB
ESMP	R2844666	1113245	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008		ASPB
ESMP	R2844666	1113249	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008	QC	ASPB
ESMP	R2844666	1113250	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008		ASPB
LDUP		1114933	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008		
SPK1		1114934	SOIL/SEDIME	4.95 <i>4.95</i>	U	1.0	5.00	99.0	07/03/2008		
ESMP	R2844666	1113254	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008		ASPB
ESMP	R2844666	1113255	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008		ASPB
ESMP	R2844666	1113256	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008		ASPB
ESMP	R2844666	1113257	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008		ASPB
ESMP	R2844666	1113258	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008		ASPB
ESMP	R2844666	1113259	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008		ASPB
ESMP	R2844666	1113262	SOIL/SEDIME	5.00	U	1.0	5.00		07/03/2008		ASPB
ESMP	R2844650	1113426	WATER	0.0500	U	1.0	0.0500		07/03/2008		ASPB
ESMP	R2844650	1113427	WATER	0.0500	U	1.0	0.0500		07/03/2008		ASPB
ESMP	R2844650	1113428	WATER	2.45		2.0	0.0500		07/03/2008		ASPB
SPKB		1114936	WATER	0.474		1.0	0.0500	94.8	07/03/2008		
ESMP	R2844650	1113429	WATER	0.0500	U	1.0	0.0500		07/03/2008		ASPB
ESMP	R2844650	1113430	WATER	1.24		1.0	0.0500		07/03/2008		1
ESMP	R2843635	1096177	WATER	19.8		10.0	0.0500		07/03/2008		1
ESMP	R2843635	1096178	WATER	0.139		1.0	0.0500		07/03/2008		1
ESMP	R2843635	1096180	WATER	1.37		1.0	0.0500		07/03/2008		1
ESMP	R2843635	1096181	WATER	0.205		1.0	0.0500		07/03/2008		1
ESMP	R2843635	1096182	WATER	0.0500	U	1.0	0.0500		07/03/2008		1

ANALYTE:G:\STARLIMS\ASBAR.RP1



<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>RESULT</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
ESMP	R2844768	- 1113695	WATER	2.27		2.0	0.0500			07/03/2008		ASPB
ESMP	R2844768	- 1113696	WATER	0.0506		1.0	0.0500			07/03/2008		ASPB
ESMP	R2844768	- 1113697	WATER	0.556		1.0	0.0500			07/03/2008		ASPB
ESMP	R2844768	- 1113698	WATER	0.0500	U	1.0	0.0500			07/03/2008		ASPB
ESMP	R2844768	- 1113699	WATER	0.0500	U	1.0	0.0500			07/03/2008		ASPB
ESMP	R2844783	- 1114080	WATER	3.69		2.0	0.0500			07/03/2008	RUN	2
ESMP	R2844508	- 1109493	WATER	0.0645		1.0	0.0500			07/03/2008		1
LDUP		- 1114937	WATER	0.0665		1.0	0.0500		3.05	07/03/2008		
SPK1		- 1114938	WATER	0.505		1.0	0.0500	88.1		07/03/2008		
ESMP	R2844508	- 1109495	WATER	0.0782		1.0	0.0500			07/03/2008		1
ESMP	R2844508	- 1109498	WATER	0.0500	U	1.0	0.0500			07/03/2008		1
SPKB		- 1114939	WATER	0.475		1.0	0.0500	95.0		07/03/2008		
BLK5		- 1114940	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		
ESMP	R2844797	- 1114366	SOIL/SEDIME	12.7	1.27	1.0	5.00			07/03/2008		ASPB
ESMP	R2844797	- 1114376	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844797	- 1114379	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844797	- 1114380	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008	QC	ASPB
LDUP		- 1114941	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		
SPK1		- 1114942	SOIL/SEDIME	5.00	U	1.0	5.00	99.9		07/03/2008		
ESMP	R2844797	- 1114382	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844803	- 1114419	WATER	1.88		1.0	0.0500			07/03/2008		ASPB
ESMP	R2844803	- 1114420	WATER	1.95		2.0	0.0500			07/03/2008		ASPB
ESMP	R2844803	- 1114421	WATER	8.77		10.0	0.0500			07/03/2008	QC	ASPB
LDUP		- 1114943	WATER	8.77		10.0	0.0500		0.02	07/03/2008		
SPK1		- 1114944	WATER	13.4		10.0	0.0500	92.5		07/03/2008		
SPKB		- 1114946	WATER	0.476		1.0	0.0500	95.2		07/03/2008		

Records printed: 77

Creator: NMEAD
Creation Date: Jul 2, 2008 15:56:25
Last Modified: Jul 3, 2008 7:48:02
Description: QC 8000 350.1 Ammonia - RUN LOG - 0807030A

Cup #	Sample ID	Manual Dilution	Sample Type
1	Standard A - 2.000	1.0000	CalStd
2	Standard B - 1.000	1.0000	CalStd
3	Standard C - 0.500	1.0000	CalStd
4	Standard D - 0.200	1.0000	CalStd
5	Standard E - 0.100	1.0000	CalStd
6	Standard F - 0.050	1.0000	CalStd
7	Standard G - 0.020	1.0000	CalStd
8	Standard H - 0.010	1.0000	CalStd
9	Standard I - 0.000	1.0000	CalStd
1	ICV TV = 1.80	1.0000	Unknown
2	ICB	1.0000	Unknown
3	LCS TV = 0.500	1.0000	Unknown
4	CRDL 0.050	1.0000	Unknown
5	CRDL 0.010	1.0000	Unknown
6	CCV	1.0000	Unknown
7	CCB	1.0000	Unknown
8	1111026-44609	1.0000	Unknown
9	1111031	1.0000	Unknown
10	1111034	1.0000	Unknown
11	1111035	1.0000	Unknown
12	1111036	1.0000	Unknown
13	1111037	1.0000	Unknown
14	1111038	1.0000	Unknown
15	1111039	1.0000	Unknown
16	1111040	1.0000	Unknown
17	1111041	1.0000	Unknown
18	CCV	1.0000	Unknown
19	CCB	1.0000	Unknown
20	LCS	1.0000	Unknown
21	1110578-44252	1.0000	Unknown
22	1110579	1.0000	Unknown
23	579 DUP	1.0000	Unknown
24	579 SPK TV = 0.500	1.0000	Unknown
25	1110580	1.0000	Unknown
26	1111043-44609	1.0000	Unknown
27	1111044	1.0000	Unknown
28	1112968-44621	1.0000	Unknown
29	1112969	1.0000	Unknown
30	1112985-44252	1.0000	Unknown
31	CCV	1.0000	Unknown

Cup #	Sample ID	Manual Dilution	Sample Type	
32	CCB	1.0000	Unknown	
33	1113014-44733	1.0000	Unknown	
34	1113015	1.0000	Unknown	
35	1113016	1.0000	Unknown	
36	1113017	1.0000	Unknown	
37	1113018	1.0000	Unknown	
38	018 DUP	1.0000	Unknown	
39	018 SPK TV = 0.500	1.0000	Unknown	
40	1113019	1.0000	Unknown	
41	1113020	1.0000	Unknown	
42	1113021	1.0000	Unknown	
43	CCV	1.0000	Unknown	
44	CCB	1.0000	Unknown	
45	LCS	1.0000	Unknown	
46	1113023	1.0000	Unknown	
47	1113024	1.0000	Unknown	
48	1113025	1.0000	Unknown	
49	1113026	1.0000	Unknown	
50	1113027	1.0000	Unknown	
51	1113136-44746	1.0000	Unknown	
52	136 DUP	1.0000	Unknown	
53	136 SPK TV = 0.500	1.0000	Unknown	} air between peaks not integrated
54	1113137	1.0000	Unknown	
55	1113138	1.0000	Unknown	
56	CCV	1.0000	Unknown	
57	CCB	1.0000	Unknown	
58	1113139	1.0000	Unknown	- air spikes - rpt @ # 14 - tray 2
59	1113142	1.0000	Unknown	
60	1113143	1.0000	Unknown	
61	1113144	1.0000	Unknown	
62	1113145	1.0000	Unknown	
63	1113146	1.0000	Unknown	
64	1113147	1.0000	Unknown	- air spikes - rpt @ # 15 - tray 2
65	147 DUP	1.0000	Unknown	
66	147 SPK TV = 0.500	1.0000	Unknown	
67	1113148	1.0000	Unknown	
68	CCV	1.0000	Unknown	
69	CCB	1.0000	Unknown	
70	LCS	1.0000	Unknown	
71	1113149	1.0000	Unknown	
72	1113150	1.0000	Unknown	- air spike - rpt @ # 16 - tray 2
73	1113151	1.0000	Unknown	
74	1113285	1.0000	Unknown	
75	1113733-44770	1.0000	Unknown	
76	1113734	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
77	1113735	1.0000	Unknown	
78	1113736	1.0000	Unknown	- air spike - rpt @ #17 - tray 2
79	736 DUP	1.0000	Unknown	
80	736 SPK TV = 0.500	1.0000	Unknown	
81	CCV	1.0000	Unknown	
82	CCB	1.0000	Unknown	
83	1113756-44771	1.0000	Unknown	
84	1113862-44778	1.0000	Unknown	- air spike not integrated
85	1113863	1.0000	Unknown	
86	1113864	1.0000	Unknown	
87	1113865	1.0000	Unknown	
88	1113866	1.0000	Unknown	
89	1113867	1.0000	Unknown	
90	1113868	1.0000	Unknown	
91	1113869	1.0000	Unknown	
92	1113870	1.0000	Unknown	
93	CCV	1.0000	Unknown	
94	CCB	1.0000	Unknown	
95	LCS	1.0000	Unknown	
96	870 DUP	1.0000	Unknown	
97	870 SPK TV = 0.500	1.0000	Unknown	
98	1113871	1.0000	Unknown	
99	1113872	1.0000	Unknown	
100	1114342-44770	1.0000	Unknown	
101	1114343	1.0000	Unknown	
102	1114344	1.0000	Unknown	
103	1114345	1.0000	Unknown	
104	1114346	1.0000	Unknown	
105	1114347	1.0000	Unknown	
106	CCV	1.0000	Unknown	
107	CCB	1.0000	Unknown	
108	1114348	1.0000	Unknown	
109	1114349	1.0000	Unknown	
110	1114367-44798	1.0000	Unknown	
111	1114368	1.0000	Unknown	
112	368 DUP	1.0000	Unknown	- Bad integration - rpt @ #18 - tra
113	368 SPK TV = 0.500	1.0000	Unknown	
114	1114369	1.0000	Unknown	
115	1114370	1.0000	Unknown	
116	1114371	1.0000	Unknown	
117	1114372	1.0000	Unknown	
118	CCV	1.0000	Unknown	
119	CCB	1.0000	Unknown	
120	LCS	1.0000	Unknown	
121	1114373	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
122	373 DUP	1.0000	Unknown	
123	373 SPK TV = 0.500	1.0000	Unknown	
124	1112065-44650	1.0000	Unknown	
125	1112066	1.0000	Unknown	
126	1112067	1.0000	Unknown	
127	1112809	1.0000	Unknown	
128	1112810	1.0000	Unknown	
129	1112811	1.0000	Unknown	
130	1112812	1.0000	Unknown	
131	CCV	1.0000	Unknown	
132	CCB	1.0000	Unknown	
133	1112871	1.0000	Unknown	
134	1112872	1.0000	Unknown	
135	1112873-44727	1,000.0000	Unknown	
136	1112874-44650	1.0000	Unknown	
137	874 DUP	1.0000	Unknown	
138	874 SPK TV = 0.500	1.0000	Unknown	
139	1113042-44734	1.0000	Unknown	
140	1113043	1.0000	Unknown	
141	1113044	1.0000	Unknown	
142	1113045	1.0000	Unknown	
143	CCV	1.0000	Unknown	
144	CCB	1.0000	Unknown	
145	LCS	1.0000	Unknown	
146	1113046	1.0000	Unknown	
147	046 DUP	1.0000	Unknown	
148	046 SPK TV = 0.500	1.0000	Unknown	
149	1113047	1.0000	Unknown	
150	1113048	1.0000	Unknown	
151	1113245-44666	1.0000	Unknown	Soil: 25.0g → 250mL
152	1113249	1.0000	Unknown	↓ ↓ ↓
153	1113250	1.0000	Unknown	- air spike - rpt @ #19 - tray 2
154	250 DUP	1.0000	Unknown	Soil: 25.0g → 250mL
155	250 SPK TV = 50.0	1.0000	Unknown	↓ ↓ ↓
156	CCV	1.0000	Unknown	
157	CCB	1.0000	Unknown	
158	1113254	1.0000	Unknown	Soil: 25.0g → 250mL
159	1113255	1.0000	Unknown	
160	1113256	1.0000	Unknown	
161	1113257	1.0000	Unknown	
162	1113258	1.0000	Unknown	
163	1113259	1.0000	Unknown	
164	1113262	1.0000	Unknown	
165	1113426-44650	1.0000	Unknown	
166	1113427	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
167	1113428	1.0000	Unknown	- rpt @ # 20 - 1/2 - tray 2
168	CCV	1.0000	Unknown	
169	CCB	1.0000	Unknown	
170	LCS	1.0000	Unknown	
171	1113429	1.0000	Unknown	
172	1113430	1.0000	Unknown	
173	1096177-43635	1.0000	Unknown	- rpt @ # 21 - tray 2 - 1/10
174	1096178	1.0000	Unknown	
175	1096180	1.0000	Unknown	
176	1096181	1.0000	Unknown	
177	1096182	1.0000	Unknown	
178	1113695-44768	1.0000	Unknown	- rpt @ # 22 - tray 2 - 1/2
179	1113696	1.0000	Unknown	
180	1113697	1.0000	Unknown	
181	CCV	1.0000	Unknown	
182	CCB	1.0000	Unknown	
183	1113698	1.0000	Unknown	
184	1113699	1.0000	Unknown	
185	1114080-44783	1.0000	Unknown	- rpt @ # 23 - tray 2 - 1/2
186	1109493-44508	1.0000	Unknown	
187	493 DUP	1.0000	Unknown	
188	493 SPK TV = 0.500	1.0000	Unknown	
189	1109495	1.0000	Unknown	
190	1109498	1.0000	Unknown	
191	1114366-44797	1.0000	Unknown	sil: 25.0g → 250mL
192	1114376	1.0000	Unknown	↓ ↓ ↓
193	CCV	1.0000	Unknown	
194	CCB	1.0000	Unknown	
195	LCS	1.0000	Unknown	
196	1114379	1.0000	Unknown	sil: 25.0g → 250mL
197	1114382	1.0000	Unknown	↓ ↓ ↓
198	1114419-44803	1.0000	Unknown	
199	CCV	1.0000	Unknown	
200	CCB	1.0000	Unknown	

Creator: NMEAD
 Creation Date: Jul 2, 2008 15:59:23
 Last Modified: Jul 3, 2008 13:23:08
 Description: QC 8000 350.1 Ammonia - RUN LOG - 080703A2

Cup #	Sample ID	Manual Dilution	Sample Type	
1	MB-44666	1.0000	Unknown	soil: 25.0g → 250mL
2	MB-44797	1.0000	Unknown	↓ ↓ ↓
3	1114380-44797	1.0000	Unknown	
4	380 DUP	1.0000	Unknown	
5	380 SPK TV = 50.0	1.0000	Unknown	
6	1114420-44803	1.0000	Unknown	rpt @ # 26-1/2
7	1114421	1.0000	Unknown	} rpt @ # 27 → 30-1/2
8	421 DUP	1.0000	Unknown	
9	421 SPK TV = 0.500	1.0000	Unknown	
10	1113022-44733	1.0000	Unknown	
11	CCV	1.0000	Unknown	
12	CCB	1.0000	Unknown	
13	LCS	1.0000	Unknown	
14	1113139 RPT	1.0000	Unknown	
15	1113147 RPT	1.0000	Unknown	
16	1113150 RPT	1.0000	Unknown	
17	1113736 RPT	1.0000	Unknown	
18	1114368 RPT	1.0000	Unknown	
19	1113250 RPT	1.0000	Unknown	soil: 25.0g → 250mL
20	1113428 RPT 1/2	2.0000	Unknown	
21	1096177 RPT	10.0000	Unknown	
22	1113695 RPT	2.0000	Unknown	
23	1114080 RPT	2.0000	Unknown	
24	CCV	1.0000	Unknown	
25	CCB	1.0000	Unknown	
26	1114420 RPT 1/2	2.0000	Unknown	
27	1111421 RPT 1/10	10.0000	Unknown	
28	421 DUP RPT 1/10	10.0000	Unknown	
29	421 SPK RPT 1/10 TV = 0.5	10.0000	Unknown	
30	CCV	1.0000	Unknown	
31	CCB	1.0000	Unknown	

OPERATOR: NMEAD
 ACQ. TIME: Jul 3, 2008 9:46:35
 DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
1	ICV TV= 1.80	03 Jul 2008	09:46:38	1	1.6459	1.0	1.00
2	ICB	03 Jul 2008	09:47:37	1	-0.0036	1.0	1.00
3	LCS TV= 0.500	03 Jul 2008	09:48:35	1	0.4722	1.0	1.00
4	CRDL 0.050	03 Jul 2008	09:49:33	1	0.0453	1.0	1.00
5	CRDL 0.010	03 Jul 2008	09:50:31	1	0.0123	1.0	1.00
6	CCV	03 Jul 2008	09:51:30	1	1.6880	1.0	1.00
7	CCB	03 Jul 2008	09:52:28	1	-0.0052	1.0	1.00
8	1111026-44609	03 Jul 2008	09:53:26	1	0.0583	1.0	1.00
9	1111031	03 Jul 2008	09:54:23	1	0.1214	1.0	1.00
10	1111034	03 Jul 2008	09:55:20	1	0.1035	1.0	1.00
11	1111035	03 Jul 2008	09:56:17	1	0.0634	1.0	1.00
12	1111036	03 Jul 2008	09:57:14	1	0.0640	1.0	1.00
13	1111037	03 Jul 2008	09:58:11	1	0.1000	1.0	1.00
14	1111038	03 Jul 2008	09:59:08	1	0.0152	1.0	1.00
15	1111039	03 Jul 2008	10:00:06	1	0.0201	1.0	1.00
16	1111040	03 Jul 2008	10:01:04	1	0.0178	1.0	1.00
17	1111041	03 Jul 2008	10:02:02	1	0.0180	1.0	1.00
18	CCV	03 Jul 2008	10:03:00	1	1.6978	1.0	1.00
19	CCB	03 Jul 2008	10:03:58	1	-0.0052	1.0	1.00
20	LCS	03 Jul 2008	10:04:56	1	0.4700	1.0	1.00
21	1110578-44252	03 Jul 2008	10:05:54	1	0.0255	1.0	1.00
22	1110579	03 Jul 2008	10:06:53	1	0.0729	1.0	1.00
23	579 DUP	03 Jul 2008	10:07:51	1	0.0684	1.0	1.00
24	579 SPK TV= 0.500	03 Jul 2008	10:08:49	1	0.5277	1.0	1.00
25	1110580	03 Jul 2008	10:09:46	1	0.0497	1.0	1.00

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 9:46:35
C:\OMNION\DATA\080703A1.FDT
C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
26	1111043-44609	03 Jul 2008	10:10:43	1	0.0100	1.0	1.00
27	1111044	03 Jul 2008	10:11:40	1	-0.0015	1.0	1.00
28	1112968-44621	03 Jul 2008	10:12:37	1	0.0218	1.0	1.00
29	1112969	03 Jul 2008	10:13:35	1	0.0146	1.0	1.00
30	1112985-44252	03 Jul 2008	10:14:32	1	0.2664	1.0	1.00
31	CCV	03 Jul 2008	10:15:31	1	1.6853	1.0	1.00
32	CCB	03 Jul 2008	10:16:30	1	-0.0052	1.0	1.00
33	1113014-44733	03 Jul 2008	10:17:29	1	0.0360	1.0	1.00
34	1113015	03 Jul 2008	10:18:27	1	0.0317	1.0	1.00
35	1113016	03 Jul 2008	10:19:25	1	0.0307	1.0	1.00
36	1113017	03 Jul 2008	10:20:24	1	0.0454	1.0	1.00
37	1113018	03 Jul 2008	10:21:22	1	0.0282	1.0	1.00
38	018 DUP	03 Jul 2008	10:22:20	1	0.0255	1.0	1.00
39	018 SPK TV= 0.500	03 Jul 2008	10:23:18	1	0.4993	1.0	1.00
40	1113019	03 Jul 2008	10:24:15	1	0.0213	1.0	1.00
41	1113020	03 Jul 2008	10:25:12	1	0.0293	1.0	1.00
42	1113021	03 Jul 2008	10:26:10	1	0.0284	1.0	1.00
43	CCV	03 Jul 2008	10:27:07	1	1.6767	1.0	1.00
44	CCB	03 Jul 2008	10:28:04	1	-0.0025	1.0	1.00
45	LCS	03 Jul 2008	10:29:01	1	0.4673	1.0	1.00
46	1113023	03 Jul 2008	10:30:00	1	0.0714	1.0	1.00
47	1113024	03 Jul 2008	10:30:59	1	0.0348	1.0	1.00
48	1113025	03 Jul 2008	10:31:59	1	0.0216	1.0	1.00
49	1113026	03 Jul 2008	10:32:57	1	0.0181	1.0	1.00
50	1113027	03 Jul 2008	10:33:55	1	0.0211	1.0	1.00

OPERATOR: NMEAD
 ACQ. TIME: Jul 3, 2008 9:46:35
 DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
51	1113136-44746	03 Jul 2008	10:34:53	1	0.7524	1.0	1.00
52	136 DUP	03 Jul 2008	10:35:51	1	0.7561	1.0	1.00
53	136 SPK TV= 0.500	03 Jul 2008	10:36:50	1	1.1913	1.0	1.00
54	1113137	03 Jul 2008	10:37:48	1	0.0397	1.0	1.00
55	1113138	03 Jul 2008	10:38:46	1	0.0091	1.0	1.00
56	CCV	03 Jul 2008	10:39:44	1	1.6869	1.0	1.00
57	CCB	03 Jul 2008	10:40:41	1	-0.0006	1.0	1.00
58	1113139	03 Jul 2008	10:41:38	1	0.3955	1.0	1.00
59	1113142...	03 Jul 2008	10:42:35	1	0.0186	1.0	1.00
60	1113143	03 Jul 2008	10:43:32	1	0.0313	1.0	1.00
61	1113144	03 Jul 2008	10:44:32	1	1.5162	1.0	1.00
62	1113145	03 Jul 2008	10:45:31	1	0.0672	1.0	1.00
63	1113146	03 Jul 2008	10:46:30	1	0.0201	1.0	1.00
64	1113147	03 Jul 2008	10:47:29	1	0.0075	1.0	1.00
65	147 DUP	03 Jul 2008	10:48:28	1	0.0145	1.0	1.00
66	147 SPK TV= 0.500	03 Jul 2008	10:49:27	1	0.4733	1.0	1.00
67	1113148	03 Jul 2008	10:50:25	1	0.1958	1.0	1.00
68	CCV	03 Jul 2008	10:51:23	1	1.6562	1.0	1.00
69	CCB	03 Jul 2008	10:52:21	1	-0.0052	1.0	1.00
70	LCS	03 Jul 2008	10:53:19	1	0.4520	1.0	1.00
71	1113149	03 Jul 2008	10:54:17	1	0.0272	1.0	1.00
72	1113150	03 Jul 2008	10:55:16	1	0.0320	1.0	1.00
73	1113151	03 Jul 2008	10:56:13	1	0.0469	1.0	1.00
74	1113285	03 Jul 2008	10:57:10	1	0.0472	1.0	1.00
75	1113733-44770	03 Jul 2008	10:58:07	1	0.0060	1.0	1.00

} air between peaks not integrated

-air spikes - rpt @ #14 - tray 2

-air spikes - rpt @ #15 - tray 2

-air spike - rpt @ #16 - tray 2

OPERATOR: NMEAD
 ACQ. TIME: Jul 3, 2008 9:46:35
 DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 76 to 100

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
76	1113734	03 Jul 2008	10:59:06	1	0.0030	1.0	1.00
77	1113735	03 Jul 2008	11:00:06	1	0.0070	1.0	1.00
78	1113736	03 Jul 2008	11:01:05	1	0.0249	1.0	1.00
79	736 DUP	03 Jul 2008	11:02:04	1	0.0248	1.0	1.00
80	736 SPK TV= 0.500	03 Jul 2008	11:03:03	1	0.4677	1.0	1.00
81	CCV	03 Jul 2008	11:04:02	1	1.6646	1.0	1.00
82	CCB	03 Jul 2008	11:05:00	1	-0.0040	1.0	1.00
83	1113756-44771	03 Jul 2008	11:05:58	1	0.1639	1.0	1.00
84	1113862-44778	03 Jul 2008	11:06:56	1	0.0171	1.0	1.00
85	1113863	03 Jul 2008	11:07:54	1	0.0244	1.0	1.00
86	1113864	03 Jul 2008	11:08:52	1	0.0148	1.0	1.00
87	1113865	03 Jul 2008	11:09:50	1	0.1044	1.0	1.00
88	1113866	03 Jul 2008	11:10:49	1	0.0282	1.0	1.00
89	1113867	03 Jul 2008	11:11:46	1	0.0168	1.0	1.00
90	1113868	03 Jul 2008	11:12:43	1	0.0084	1.0	1.00
91	1113869	03 Jul 2008	11:13:42	1	0.0020	1.0	1.00
92	1113870	03 Jul 2008	11:14:41	1	0.0010	1.0	1.00
93	CCV	03 Jul 2008	11:15:41	1	1.6710	1.0	1.00
94	CCB	03 Jul 2008	11:16:40	1	-0.0052	1.0	1.00
95	LCS	03 Jul 2008	11:17:39	1	0.4721	1.0	1.00
96	870 DUP	03 Jul 2008	11:18:38	1	-0.0004	1.0	1.00
97	870 SPK TV= 0.500	03 Jul 2008	11:19:37	1	0.4653	1.0	1.00
98	1113871	03 Jul 2008	11:20:37	1	0.0045	1.0	1.00
99	1113872	03 Jul 2008	11:21:35	1	0.0055	1.0	1.00
100	1114342-44770	03 Jul 2008	11:22:33	1	0.0094	1.0	1.00

air spike - rpt @ #17 - tray 2

air spike not integrated

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 9:46:35
C:\OMNION\DATA\080703A1.FDT
C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 101 to 125

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
101	1114343	03 Jul 2008	11:23:31	1	0.0090	1.0	1.00
102	1114344	03 Jul 2008	11:24:29	1	0.0108	1.0	1.00
103	1114345	03 Jul 2008	11:25:27	1	0.0105	1.0	1.00
104	1114346	03 Jul 2008	11:26:25	1	0.0039	1.0	1.00
105	1114347	03 Jul 2008	11:27:24	1	0.0057	1.0	1.00
106	CCV	03 Jul 2008	11:28:24	1	1.7096	1.0	1.00
107	CCB	03 Jul 2008	11:29:23	1	-0.0052	1.0	1.00
108	1114348	03 Jul 2008	11:30:22	1	0.0055	1.0	1.00
109	1114349	03 Jul 2008	11:31:22	1	0.0144	1.0	1.00
110	1114367-44798	03 Jul 2008	11:32:21	1	0.0086	1.0	1.00
111	1114368	03 Jul 2008	11:33:20	1	0.0032	1.0	1.00
112	368 DUP	03 Jul 2008	11:34:19	1	-0.0046	1.0	1.00
113	368 SPK TV= 0.500	03 Jul 2008	11:35:18	1	0.4692	1.0	1.00
114	1114369	03 Jul 2008	11:36:17	1	0.0155	1.0	1.00
115	1114370	03 Jul 2008	11:37:16	1	0.0180	1.0	1.00
116	1114371	03 Jul 2008	11:38:14	1	0.0141	1.0	1.00
117	1114372	03 Jul 2008	11:39:12	1	0.0078	1.0	1.00
118	CCV	03 Jul 2008	11:40:10	1	1.6987	1.0	1.00
119	CCB	03 Jul 2008	11:41:08	1	-0.0052	1.0	1.00
120	LCS	03 Jul 2008	11:42:06	1	0.4703	1.0	1.00
121	1114373	03 Jul 2008	11:43:06	1	0.0246	1.0	1.00
122	373 DUP	03 Jul 2008	11:44:07	1	0.0226	1.0	1.00
123	373 SPK TV= 0.500	03 Jul 2008	11:45:06	1	0.4970	1.0	1.00
124	1112065-44650	03 Jul 2008	11:46:05	1	0.0486	1.0	1.00
125	1112066	03 Jul 2008	11:47:04	1	0.1042	1.0	1.00

-Bad integration - pt @ #18 -
tray 2

OPERATOR: NMEAD
 ACQ. TIME: Jul 3, 2008 9:46:35
 DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 126 to 150

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
126	1112067	03 Jul 2008	11:48:03	1	0.0272	1.0	1.00
127	1112809	03 Jul 2008	11:49:03	1	0.0040	1.0	1.00
128	1112810	03 Jul 2008	11:50:02	1	0.0960	1.0	1.00
129	1112811	03 Jul 2008	11:51:01	1	0.0285	1.0	1.00
130	1112812	03 Jul 2008	11:52:00	1	0.0071	1.0	1.00
131	CCV	03 Jul 2008	11:52:58	1	1.7271	1.0	1.00
132	CCB	03 Jul 2008	11:53:56	1	-0.0032	1.0	1.00
133	1112871	03 Jul 2008	11:54:55	1	1.9021	1.0	1.00
134	1112872	03 Jul 2008	11:55:53	1	0.3723	1.0	1.00
135	1112873-44727	03 Jul 2008	11:56:51	1	1692.2659	1000.0	1.00
136	1112874-44650	03 Jul 2008	11:57:51	1	0.0149	1.0	1.00
137	874 DUP	03 Jul 2008	11:58:51	1	0.0131	1.0	1.00
138	874 SPK TV= 0.500	03 Jul 2008	11:59:52	1	0.4816	1.0	1.00
139	1113042-44734	03 Jul 2008	12:00:51	1	0.0668	1.0	1.00
140	1113043	03 Jul 2008	12:01:50	1	0.3603	1.0	1.00
141	1113044	03 Jul 2008	12:02:49	1	-0.0052	1.0	1.00
142	1113045	03 Jul 2008	12:03:48	1	0.0348	1.0	1.00
143	CCV	03 Jul 2008	12:04:47	1	1.7225	1.0	1.00
144	CCB	03 Jul 2008	12:05:46	1	-0.0029	1.0	1.00
145	LCS	03 Jul 2008	12:06:46	1	0.4733	1.0	1.00
146	1113046	03 Jul 2008	12:07:45	1	0.1945	1.0	1.00
147	046 DUP	03 Jul 2008	12:08:43	1	0.1884	1.0	1.00
148	046 SPK TV= 0.500	03 Jul 2008	12:09:41	1	0.6056	1.0	1.00
149	1113047	03 Jul 2008	12:10:39	1	0.0857	1.0	1.00
150	1113048	03 Jul 2008	12:11:37	1	0.3556	1.0	1.00

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 9:46:35
C:\OMNION\DATA\1080703A1.FDT
C:\OMNION\TRAYS\10807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 151 to 175

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
151	1113245-44666	03 Jul 2008	12:12:38	1	0.0444	1.0	1.0	<i>nm 7/3/08</i> <i>4.44</i> < 5.00
152	1113249	03 Jul 2008	12:13:38	1	0.0346	1.0	1.0	= < 5.00
153	1113250	03 Jul 2008	12:14:38	1	0.0305	1.0	1.0	air spike - rpt @ # 19 - tray 2
154	250 DUP	03 Jul 2008	12:15:38	1	0.0459	1.0	1.0	= < 5.00
155	250 SPK TV=50.0	03 Jul 2008	12:16:38	1	0.4952	1.0	1.0	= 49.52 4.952 <i>OK 7/8/08</i>
156	CCV	03 Jul 2008	12:17:37	1	1.7151	1.0	1.0	
157	CCB	03 Jul 2008	12:18:36	1	-0.0052	1.0	1.0	
158	1113254	03 Jul 2008	12:19:35	1	0.0043	1.0	1.0	= < 5.00
159	1113255	03 Jul 2008	12:20:34	1	-0.0035	1.0	1.0	= < 5.00
160	1113256	03 Jul 2008	12:21:34	1	0.0123	1.0	1.0	= < 5.00
161	1113257	03 Jul 2008	12:22:33	1	0.0336	1.0	1.0	= < 5.00
162	1113258	03 Jul 2008	12:23:32	1	-0.0021	1.0	1.0	= < 5.00
163	1113259	03 Jul 2008	12:24:30	1	0.0425	1.0	1.0	= < 5.00
164	1113262	03 Jul 2008	12:25:28	1	0.0272	1.0	1.0	= < 5.00
165	1113426-44650	03 Jul 2008	12:26:27	1	0.0274	1.0	1.0	
166	1113427	03 Jul 2008	12:27:27	1	0.0112	1.0	1.0	
167	1113428	03 Jul 2008	12:28:27	1	2.4140	1.0	1.0	- rpt @ # 20 - tray 2 - 1/2
168	CCV	03 Jul 2008	12:29:28	1	1.7314	1.0	1.0	
169	CCB	03 Jul 2008	12:30:28	1	-0.0038	1.0	1.0	
170	LCS	03 Jul 2008	12:31:28	1	0.4741	1.0	1.0	
171	1113429	03 Jul 2008	12:32:28	1	0.0475	1.0	1.0	
172	1113430	03 Jul 2008	12:33:27	1	1.2456	1.0	1.0	
173	1096177-43635	03 Jul 2008	12:34:27	1	13.4950	1.0	1.0	- rpt @ # 21 - tray 2 - 1/10
174	1096178	03 Jul 2008	12:35:26	1	0.1388	1.0	1.0	
175	1096180	03 Jul 2008	12:36:25	1	1.3713	1.0	1.0	

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 9:46:35
C:\OMNION\DATA\080703A1.FDT
C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 176 to 200

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
176	1096181	03 Jul 2008	12:37:24	1	0.2053	1.0	1.00
177	1096182	03 Jul 2008	12:38:23	1	0.0189	1.0	1.00
178	1113695-44768	03 Jul 2008	12:39:22	1	2.1797	1.0	1.00 - rpt @ # 22 - tray 2 - 1/2
179	1113696	03 Jul 2008	12:40:21	1	0.0506	1.0	1.00
180	1113697	03 Jul 2008	12:41:19	1	0.5559	1.0	1.00
181	CCV	03 Jul 2008	12:42:19	1	1.7279	1.0	1.00
182	CCB	03 Jul 2008	12:43:19	1	-0.0052	1.0	1.00
183	1113698	03 Jul 2008	12:44:20	1	0.0219	1.0	1.00
184	1113699	03 Jul 2008	12:45:20	1	0.0268	1.0	1.00
185	1114080-44783	03 Jul 2008	12:46:20	1	2.9123	1.0	1.00 - rpt @ # 23 - tray 2 - 1/2
186	1109493-44508	03 Jul 2008	12:47:20	1	0.0645	1.0	1.00
187	493 DUP	03 Jul 2008	12:48:20	1	0.0665	1.0	1.00
188	493 SPK TV= 0.500	03 Jul 2008	12:49:20	1	0.5048	1.0	1.00
189	1109495	03 Jul 2008	12:50:19	1	0.0782	1.0	1.00
190	1109498	03 Jul 2008	12:51:18	1	0.0243	1.0	1.00
191	1114366-44797	03 Jul 2008	12:52:18	1	0.1271	1.0	1.00 = 12. TT 1.271
192	1114376	03 Jul 2008	12:53:17	1	0.0422	1.0	1.00 = 45.00
193	CCV	03 Jul 2008	12:54:16	1	1.6883	1.0	1.00
194	CCB	03 Jul 2008	12:55:15	1	-0.0052	1.0	1.00
195	LCS	03 Jul 2008	12:56:13	1	0.4750	1.0	1.00
196	1114379	03 Jul 2008	12:57:14	1	-0.0052	1.0	1.00 = 45.00 } sm, neg. peaks -
197	1114382	03 Jul 2008	12:58:14	1	-0.0004	1.0	1.00 = 45.00 } < PQL
198	1114419-44803	03 Jul 2008	12:59:14	1	1.8791	1.0	1.00
199	CCV	03 Jul 2008	13:00:14	1	1.6855	1.0	1.00
200	CCB	03 Jul 2008	13:01:15	1	-0.0052	1.0	1.00

oil → 50mL
09 ↓
09 → 25mL
↓

OK 7/3/08

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 13:03:25
C:\OMNION\DATA\080703A2.FDT
C:\OMNION\TRAYS\080703A2.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
1	MB-44666	03 Jul 2008	13:03:28	1	0.0195	1.0	1.00 = <5.00
2	MB-44797	03 Jul 2008	13:04:27	1	0.0142	1.0	1.00 = <5.00
3	1114380-44797	03 Jul 2008	13:05:25	1	0.0117	1.0	1.00 = <5.00
4	380 DUP	03 Jul 2008	13:06:23	1	0.0127	1.0	1.00 = <5.00
5	380 SPK TV= 50.0	03 Jul 2008	13:07:21	1	0.4997	1.0	1.00 = 49.97 4.997 Ck 7/3/08
6	1114420-44803	03 Jul 2008	13:08:19	1	2.0370	1.0	1.00 - rpt @ # 26-1/2
7	1114421	03 Jul 2008	13:09:18	1	7.9779	1.0	1.00
8	421 DUP	03 Jul 2008	13:10:16	1	7.9875	1.0	1.00 } rpt @ # 27-30 - 1/10
9	421 SPK TV= 0.500	03 Jul 2008	13:11:13	1	8.3207	1.0	1.00
10	1113022-44733	03 Jul 2008	13:12:10	1	0.0497	1.0	1.00
11	CCV	03 Jul 2008	13:13:07	1	1.6956	1.0	1.00
12	CCB	03 Jul 2008	13:14:04	1	-0.0016	1.0	1.00
13	LCS	03 Jul 2008	13:15:01	1	0.4761	1.0	1.00
14	1113139 RPT	03 Jul 2008	13:15:58	1	0.3796	1.0	1.00
15	1113147 RPT	03 Jul 2008	13:16:56	1	0.0217	1.0	1.00
16	1113150 RPT	03 Jul 2008	13:17:54	1	0.0317	1.0	1.00
17	1113736 RPT	03 Jul 2008	13:18:53	1	0.0320	1.0	1.00
18	1114368 RPT dup	03 Jul 2008	13:19:51	1	0.0005	1.0	1.00
19	1113250 RPT	03 Jul 2008	13:20:49	1	0.0332	1.0	1.00 = <5.00
20	1113428 RPT 1/2	03 Jul 2008	13:21:48	1	2.4465	2.0	1.00
21	1096177 RPT	03 Jul 2008	13:22:46	1	19.7944	10.0	1.00
22	1113695 RPT	03 Jul 2008	13:23:44	1	2.2676	2.0	1.00
23	1114080 RPT	03 Jul 2008	13:24:42	1	3.6937	2.0	1.00
24	CCV	03 Jul 2008	13:25:40	1	1.7017	1.0	1.00
25	CCB	03 Jul 2008	13:26:38	1	0.0004	1.0	1.00

OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 13:03:25
DATA FILENAME: C:\OMNION\DATA\080703A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080703A2.TRA

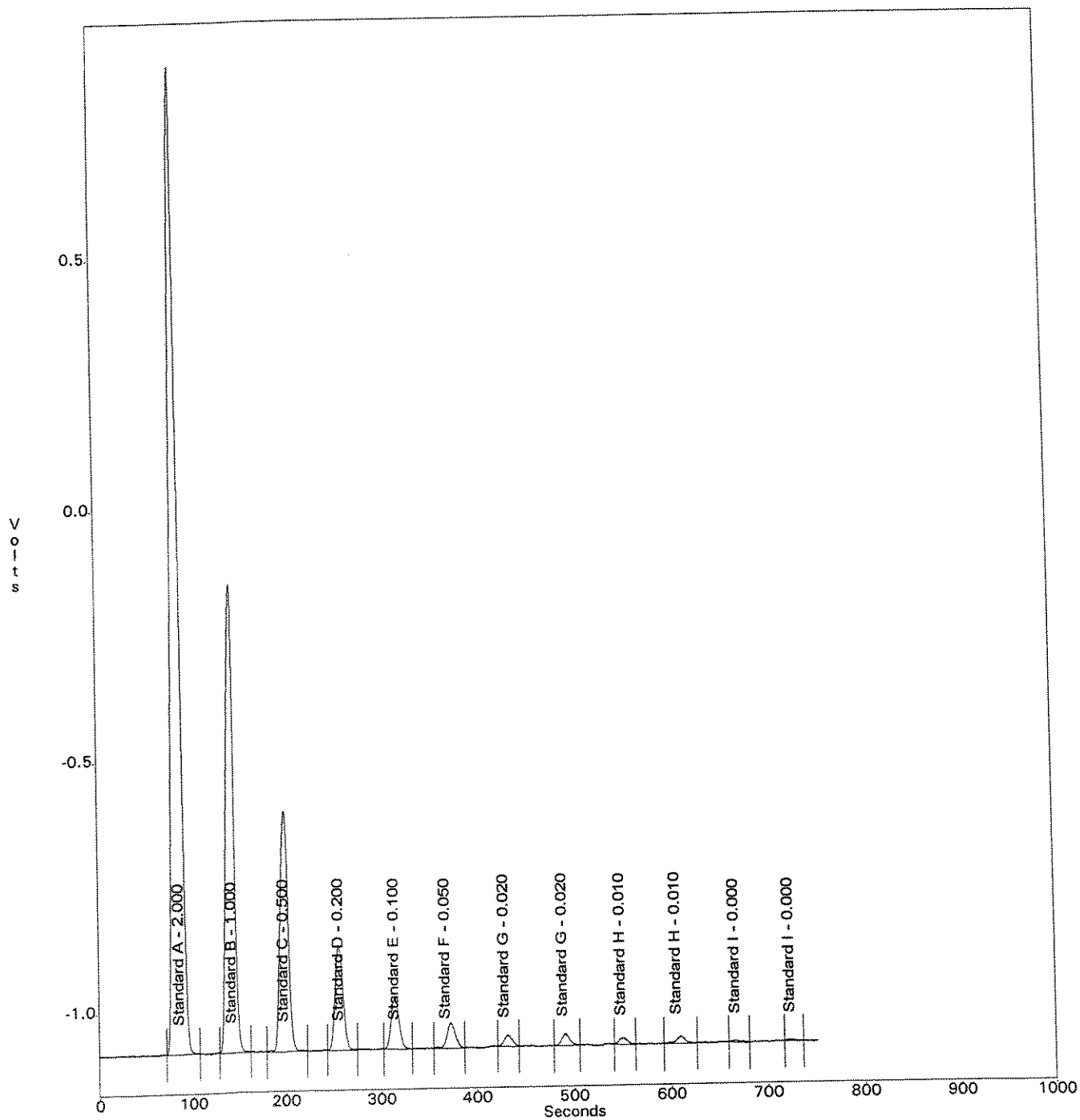
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
26	1114420 RPT 1/2	03 Jul 2008	13:27:35	1	1.9527	2.0	1.00
27	1111421 RPT 1/10	03 Jul 2008	13:28:32	1	8.7744	10.0	1.00
28	421 DUP RPT 1/10	03 Jul 2008	13:29:29	1	8.7686	10.0	1.00
29	421 SPK RPT 1/10 TV=0.5	03 Jul 2008	13:30:26	1	13.3925	10.0	1.00
30	CCV	03 Jul 2008	13:31:23	1	1.6872	1.0	1.00
31	CCB	03 Jul 2008	13:32:22	1	-0.0052	1.0	1.00

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 9:33:00
C:\OMNION\DATA\0807030A.FDT
C:\OMNION\TRAYS\0807030A.TRA

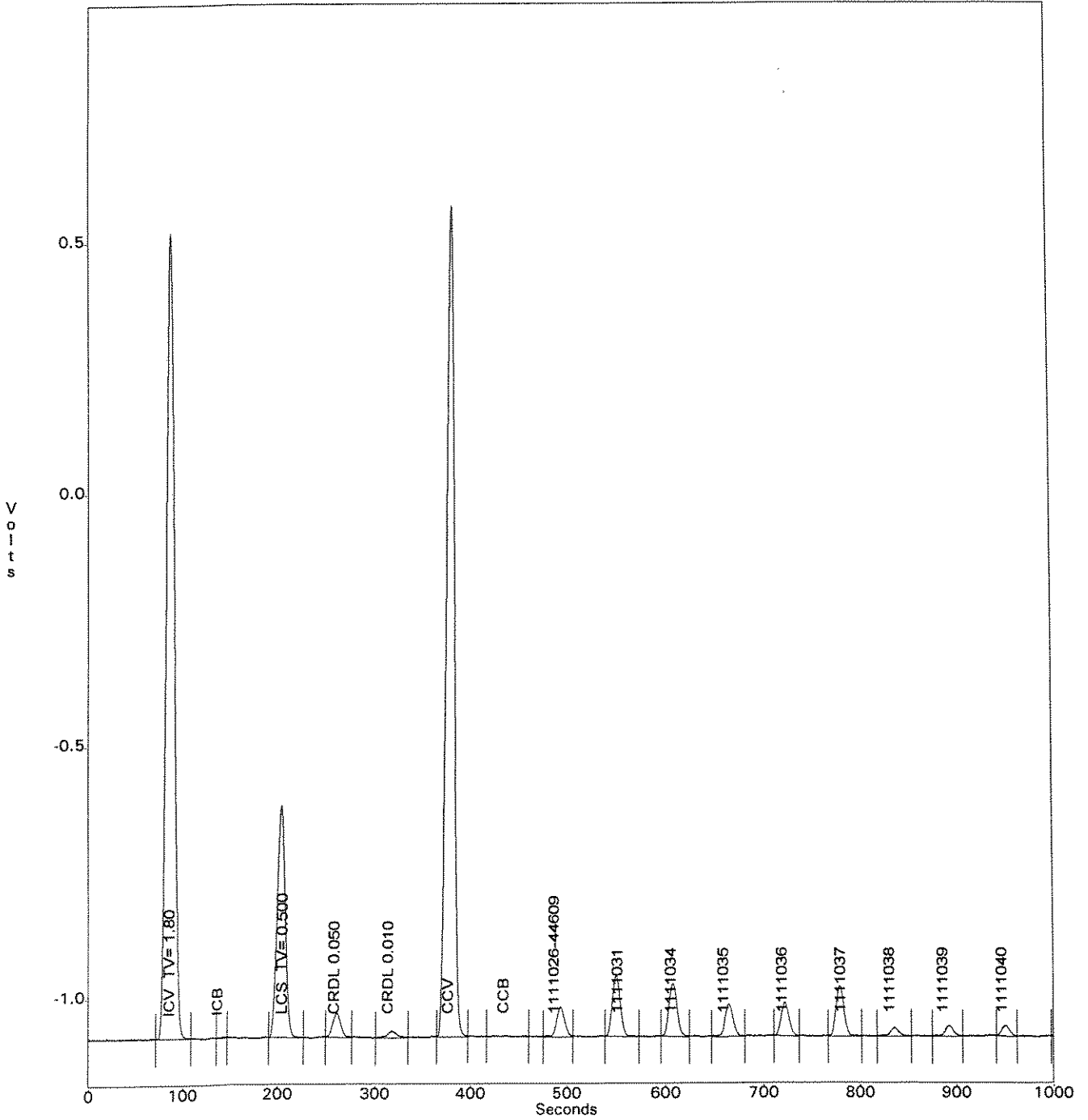
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 9:46:35
C:\OMNION\DATA\080703A1.FDT
C:\OMNION\TRAYS\0807030A.TRA

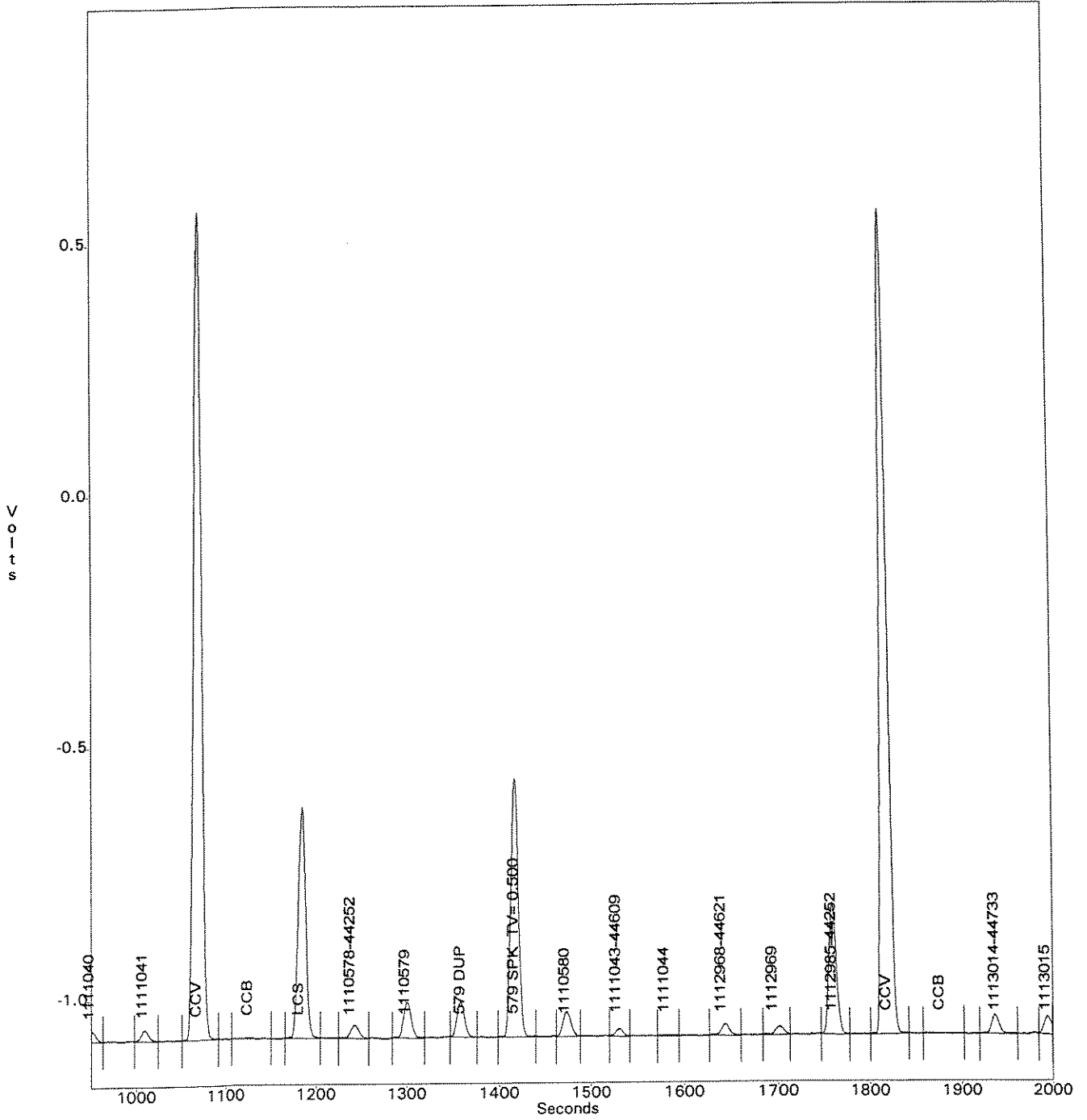
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

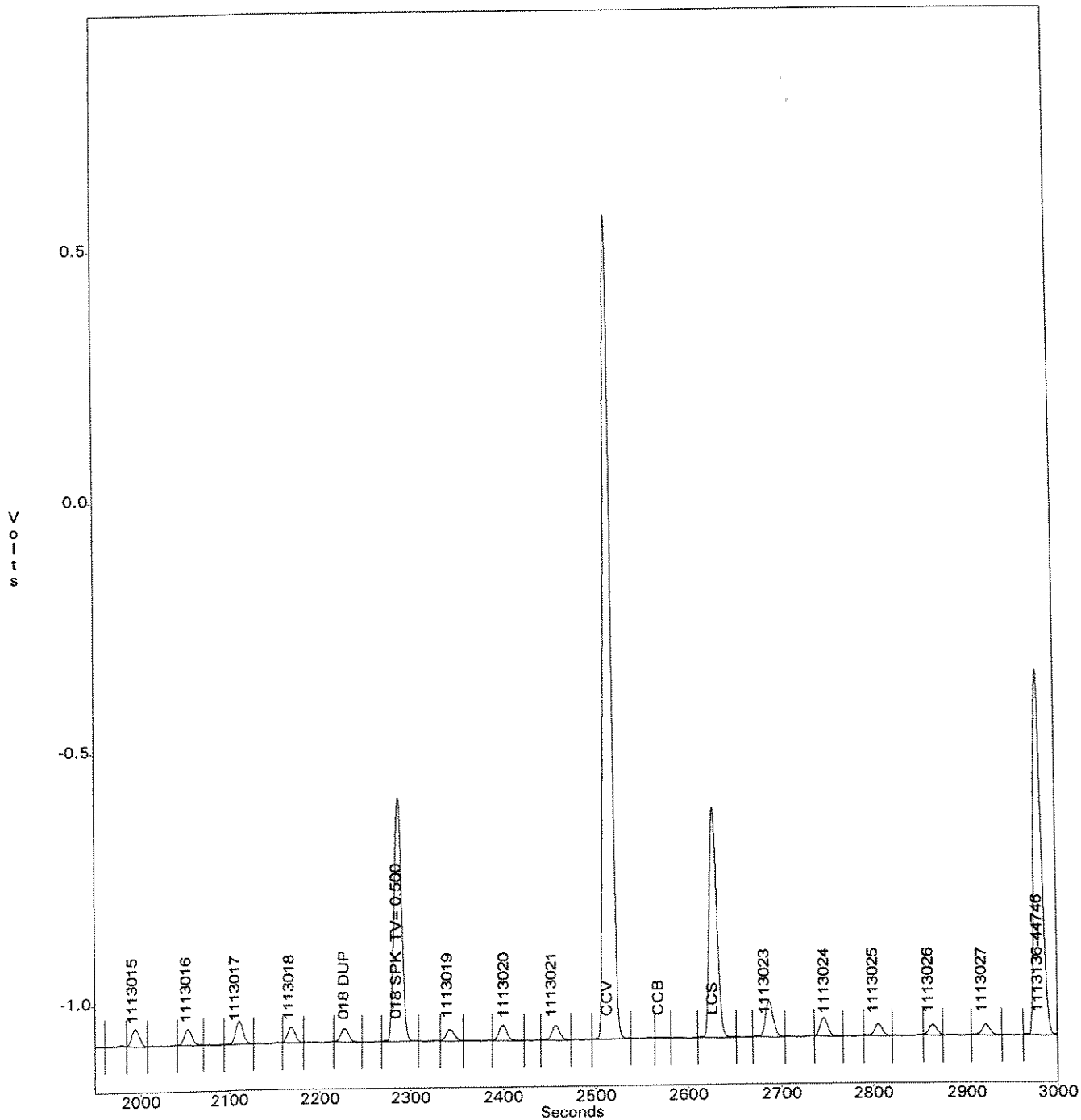
NMEAD
Jul 3, 2008 9:46:35
C:\OMNION\DATA\080703A1.FDT
C:\OMNION\TRAYS\0807030A.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

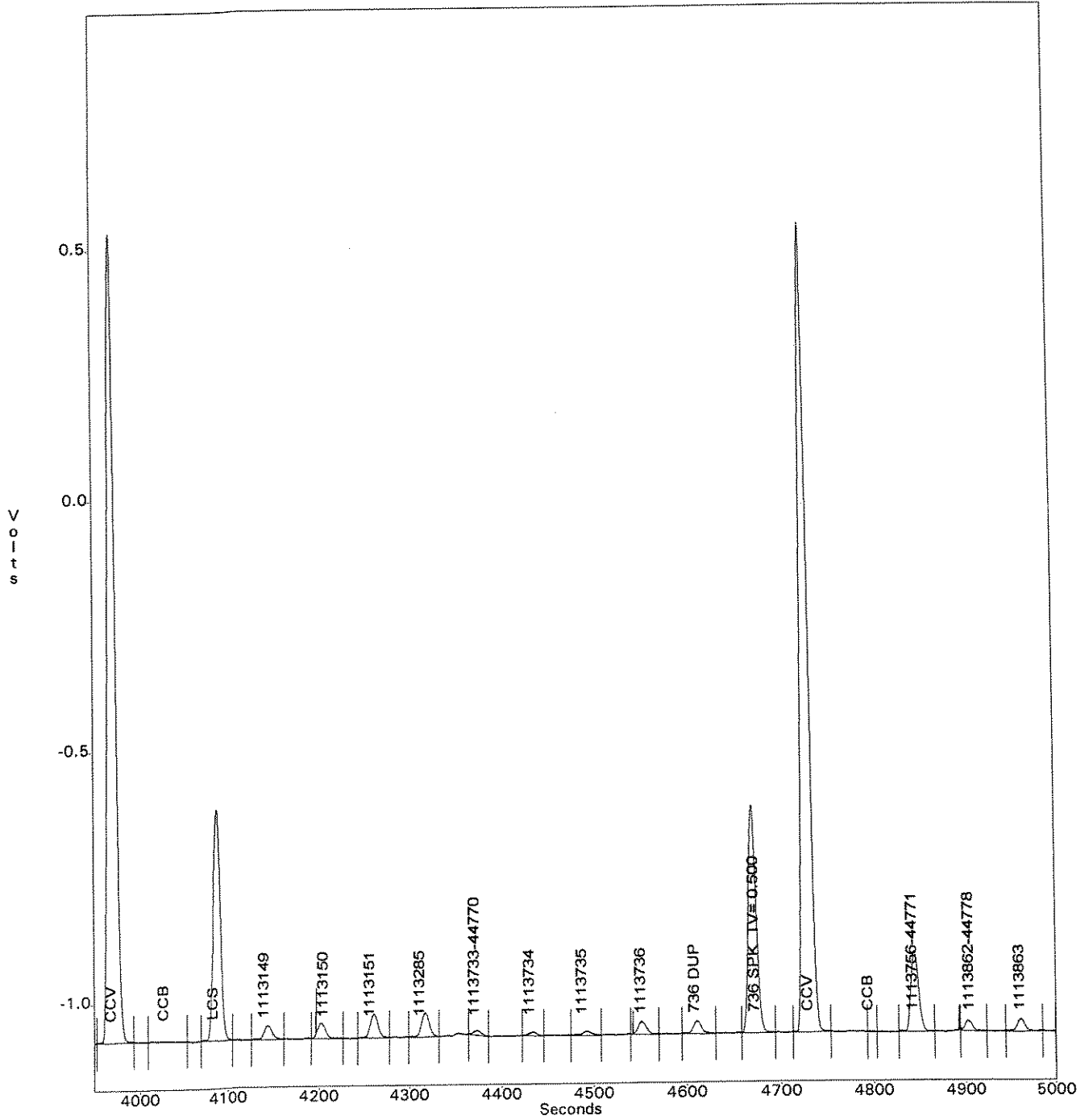
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 9:46:35
C:\OMNION\DATA\080703A1.FDT
C:\OMNION\TRAYS\0807030A.TRA

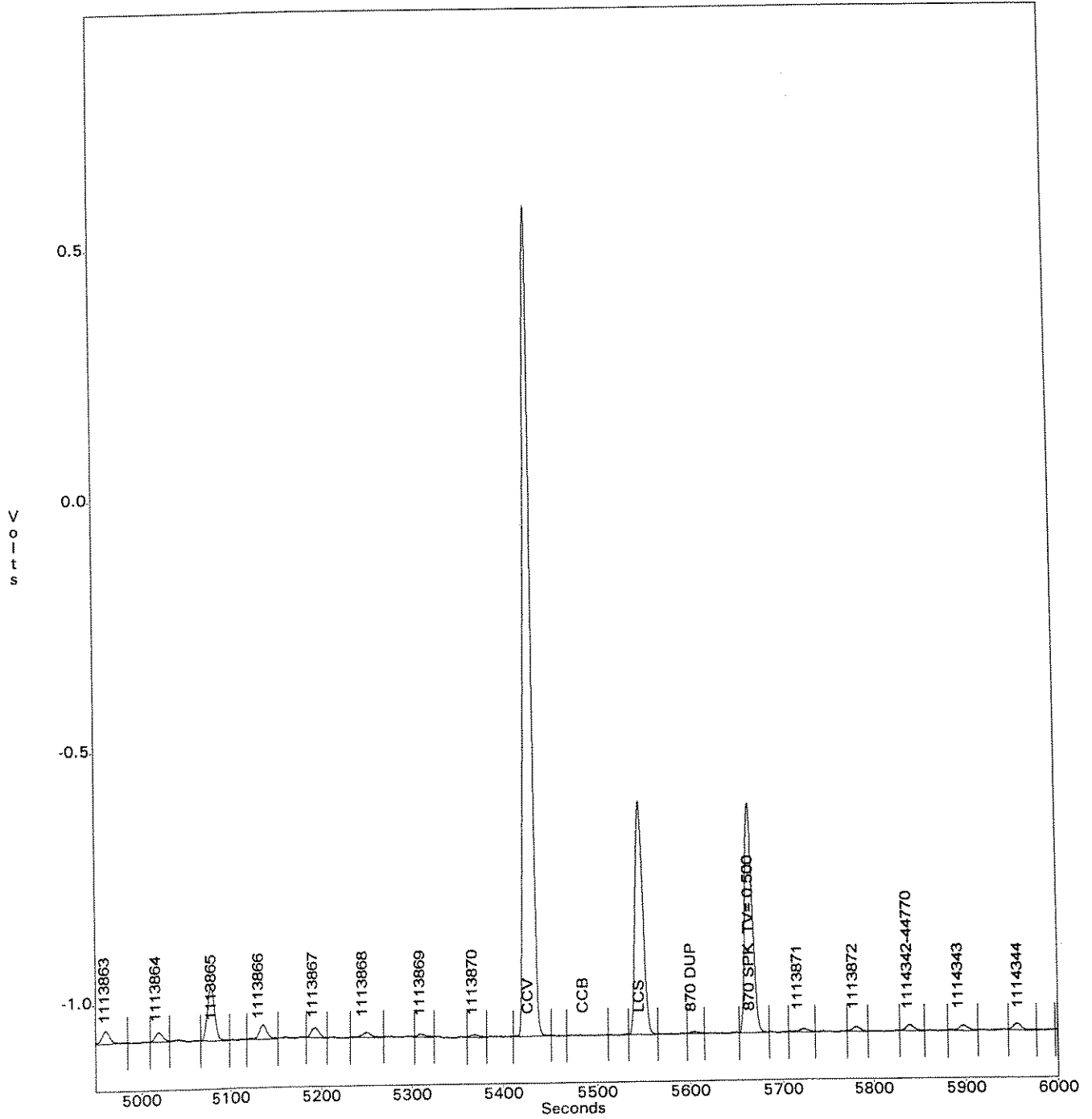
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

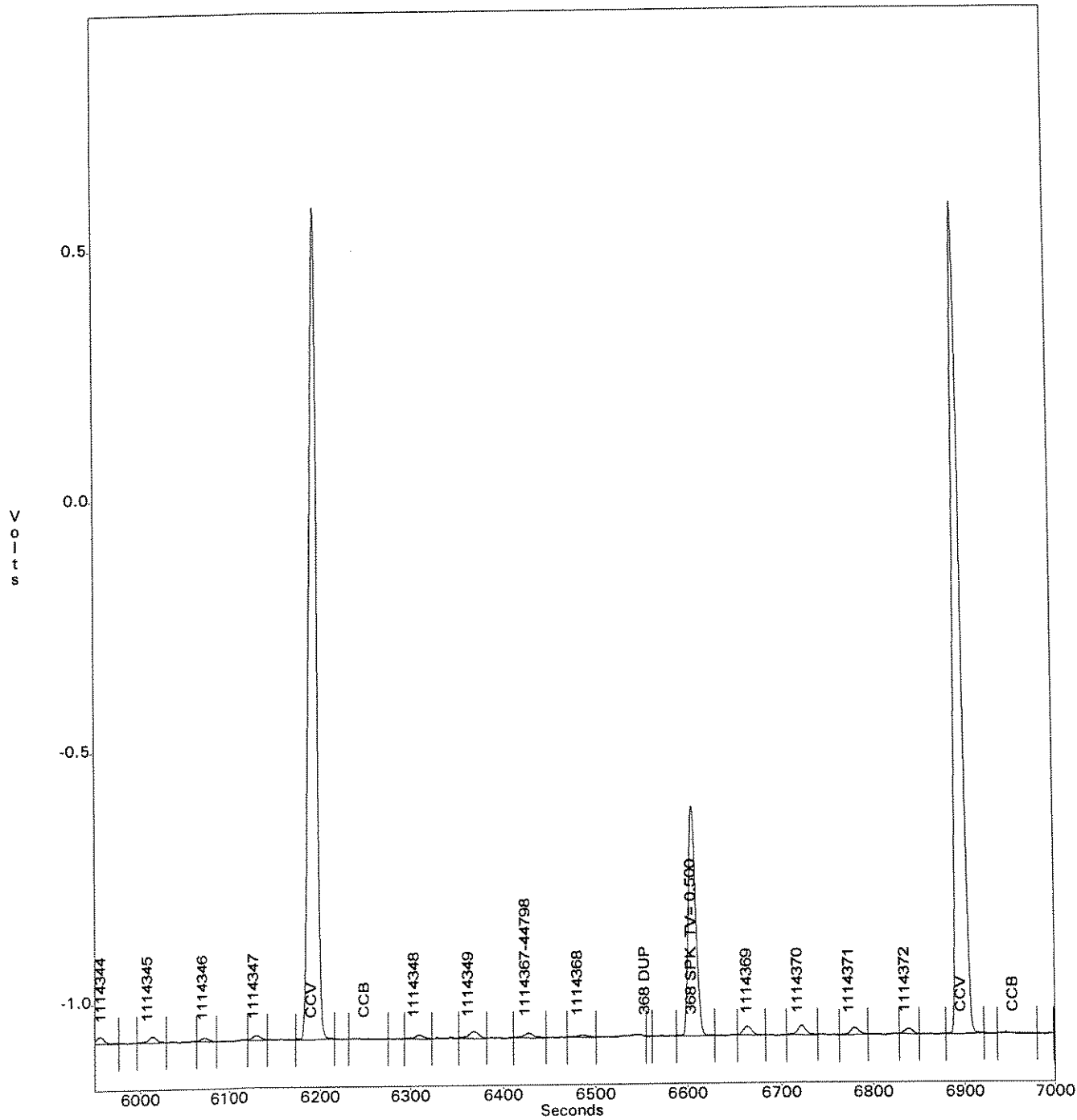
NMEAD
Jul 3, 2008 9:46:35
C:\OMNION\DATA\080703A1.FDT
C:\OMNION\TRAYS\0807030A.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

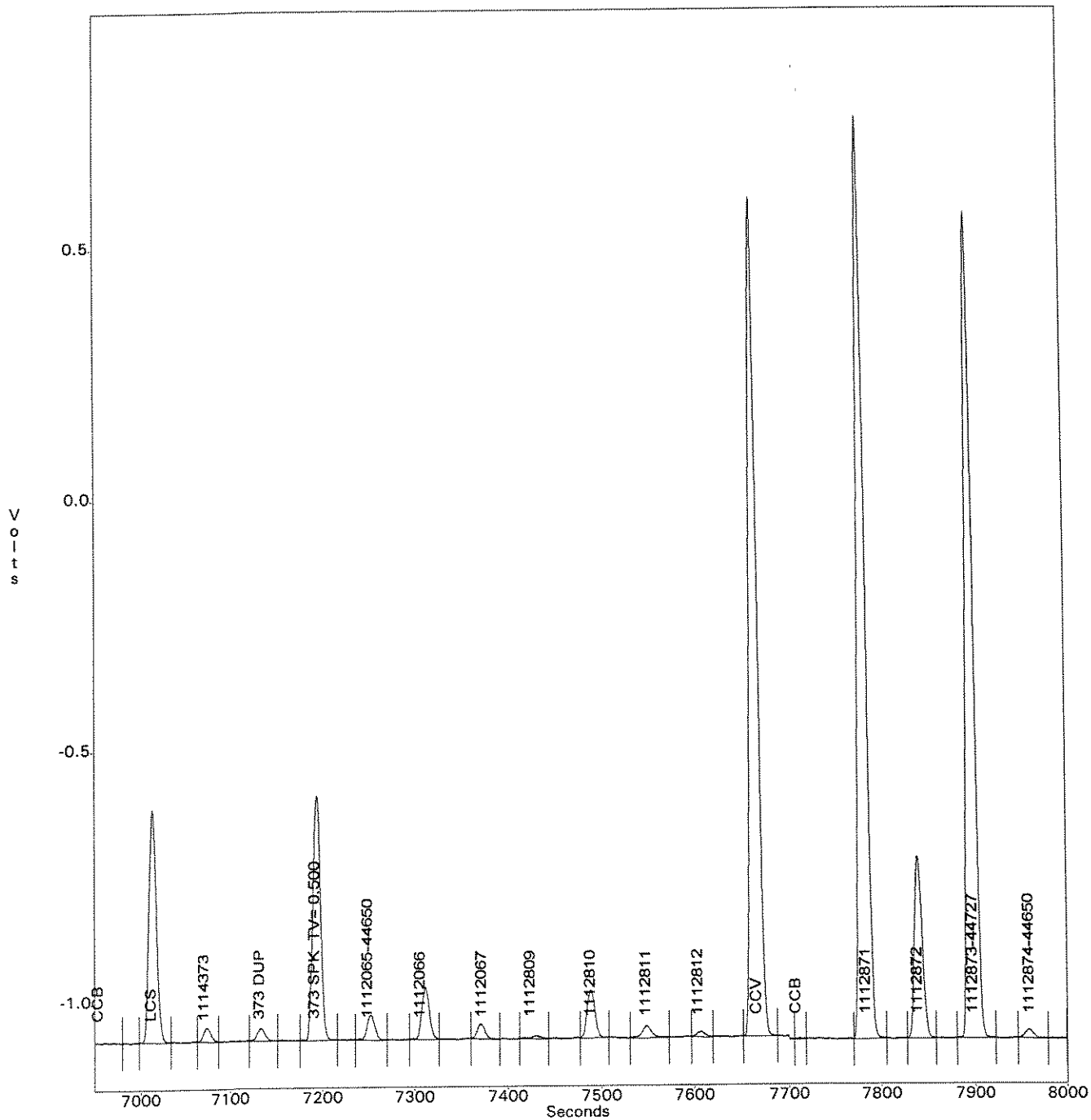
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 9:46:35
C:\OMNION\DATA\080703A1.FDT
C:\OMNION\TRAYS\0807030A.TRA

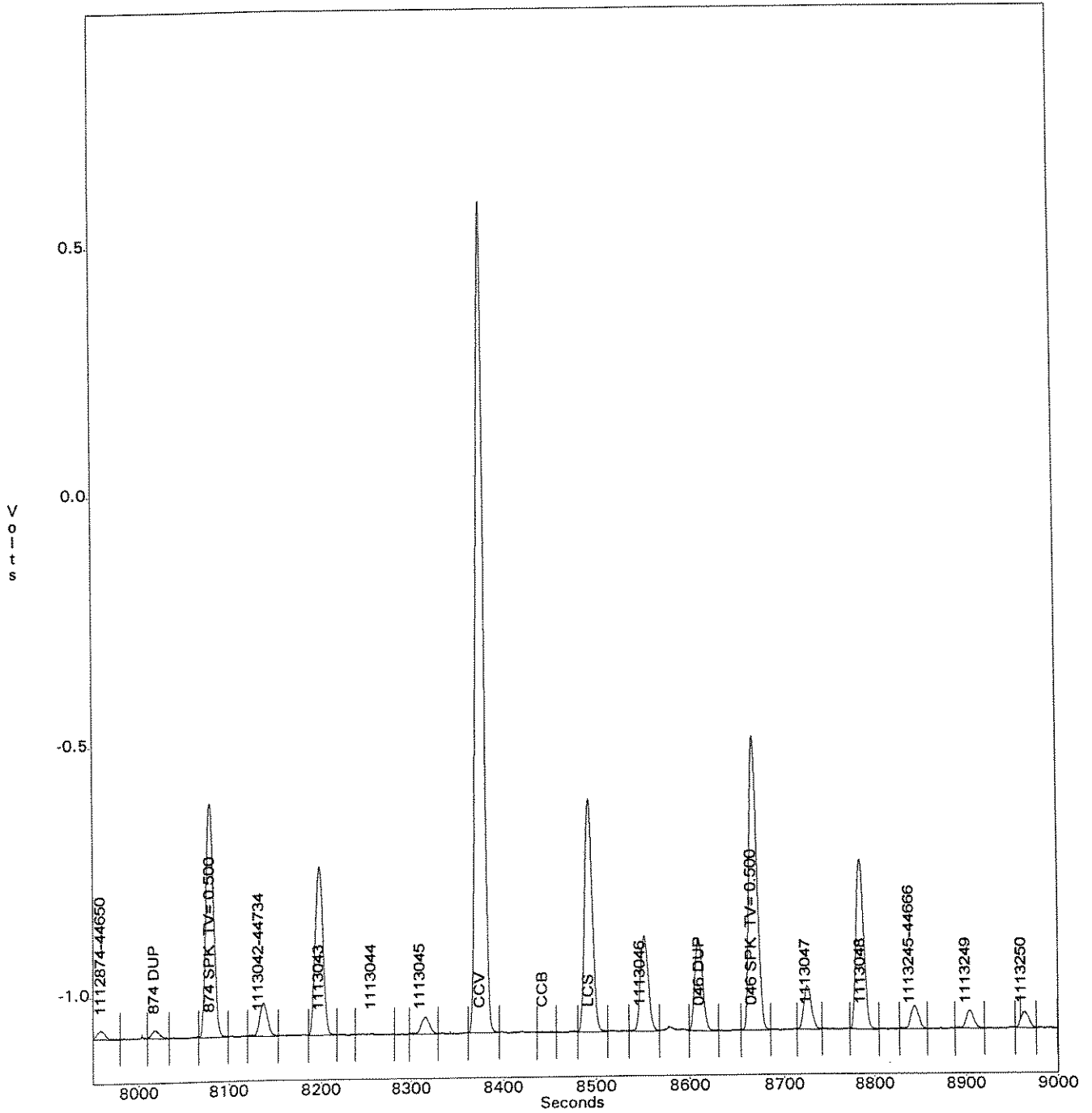
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

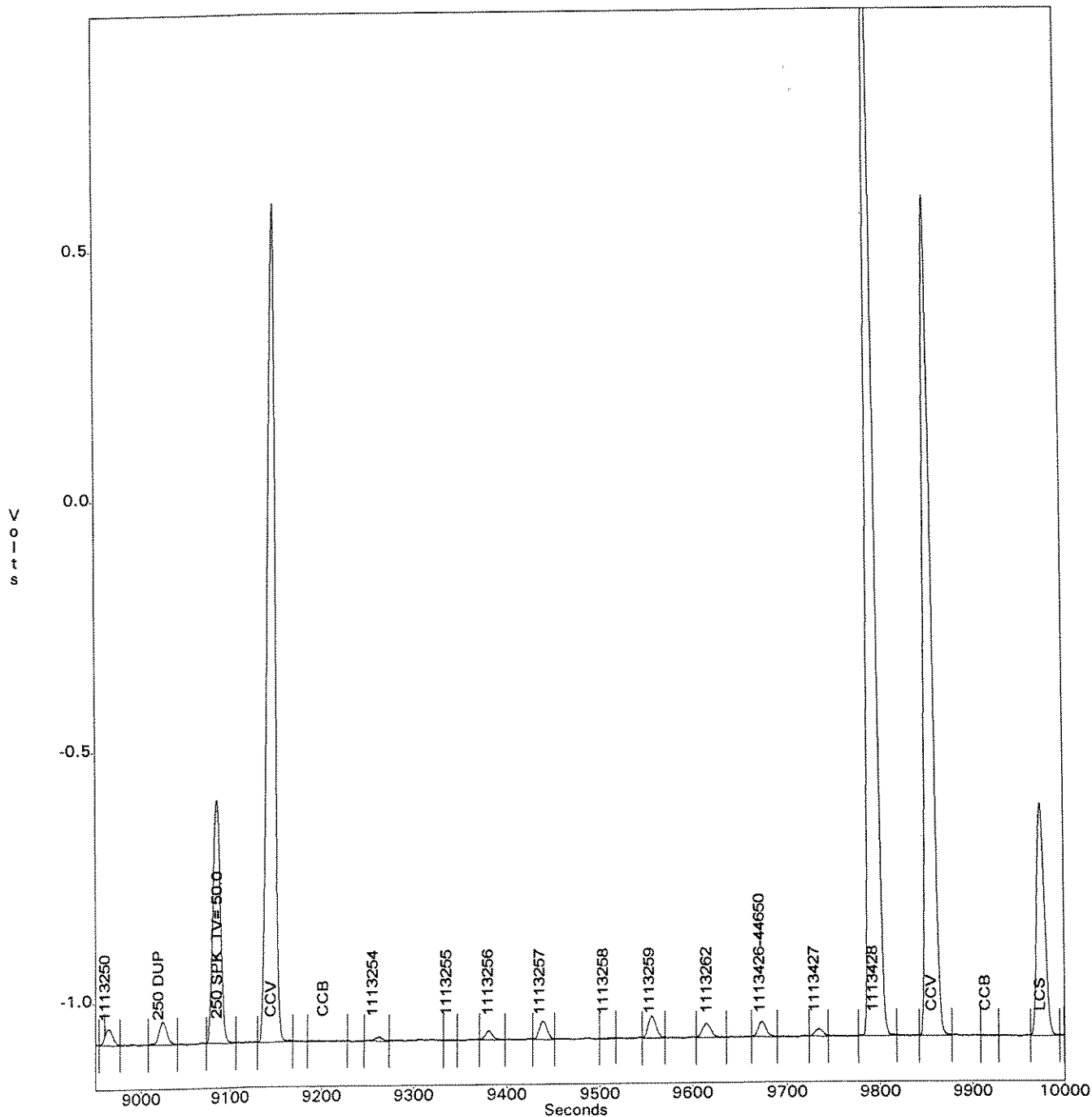
NMEAD
Jul 3, 2008 9:46:35
C:\OMNION\DATA\080703A1.FDT
C:\OMNION\TRAYS\0807030A.TRA

Channel 1 - QC 8000 350.1 Ammonia



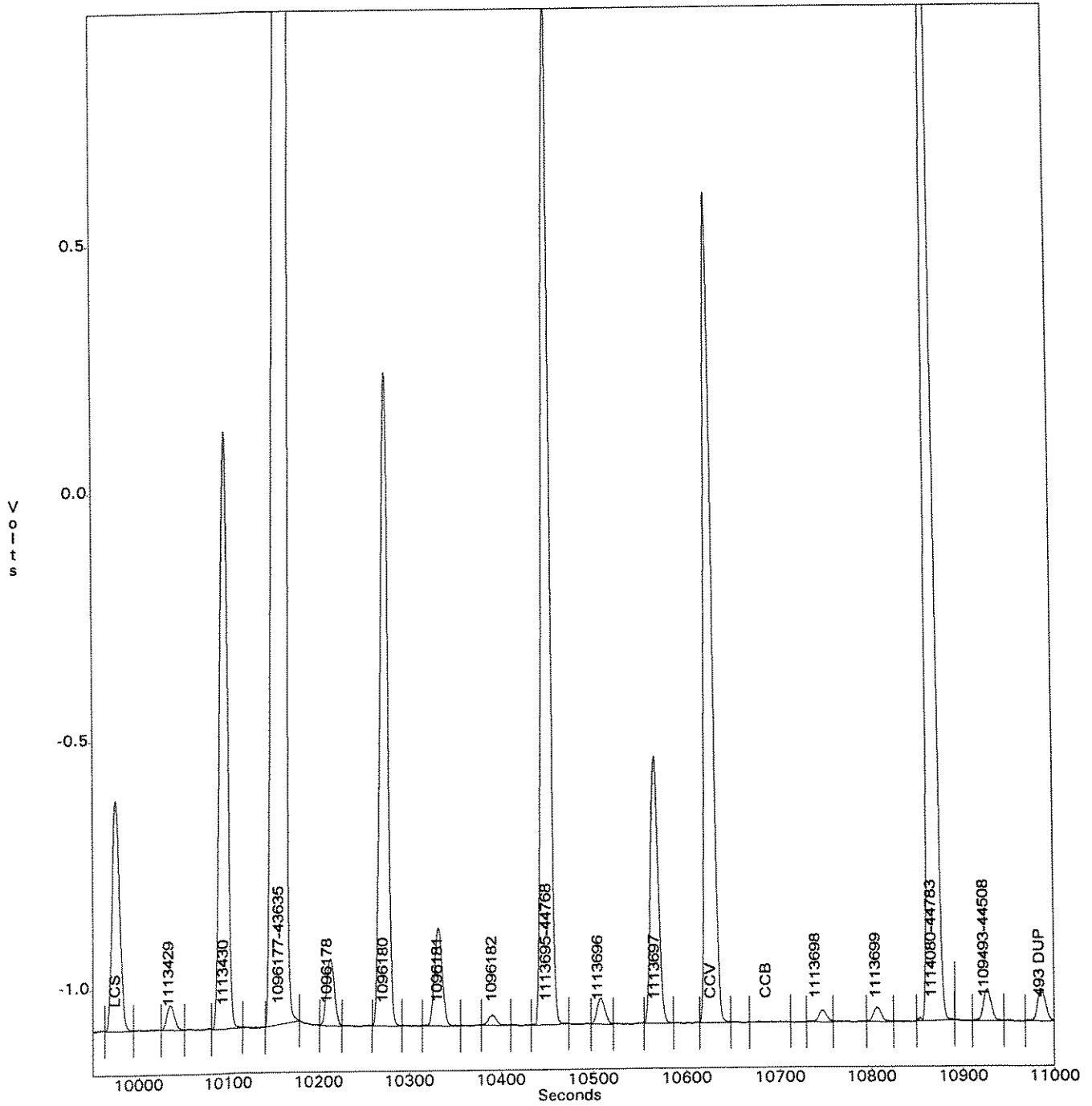
OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

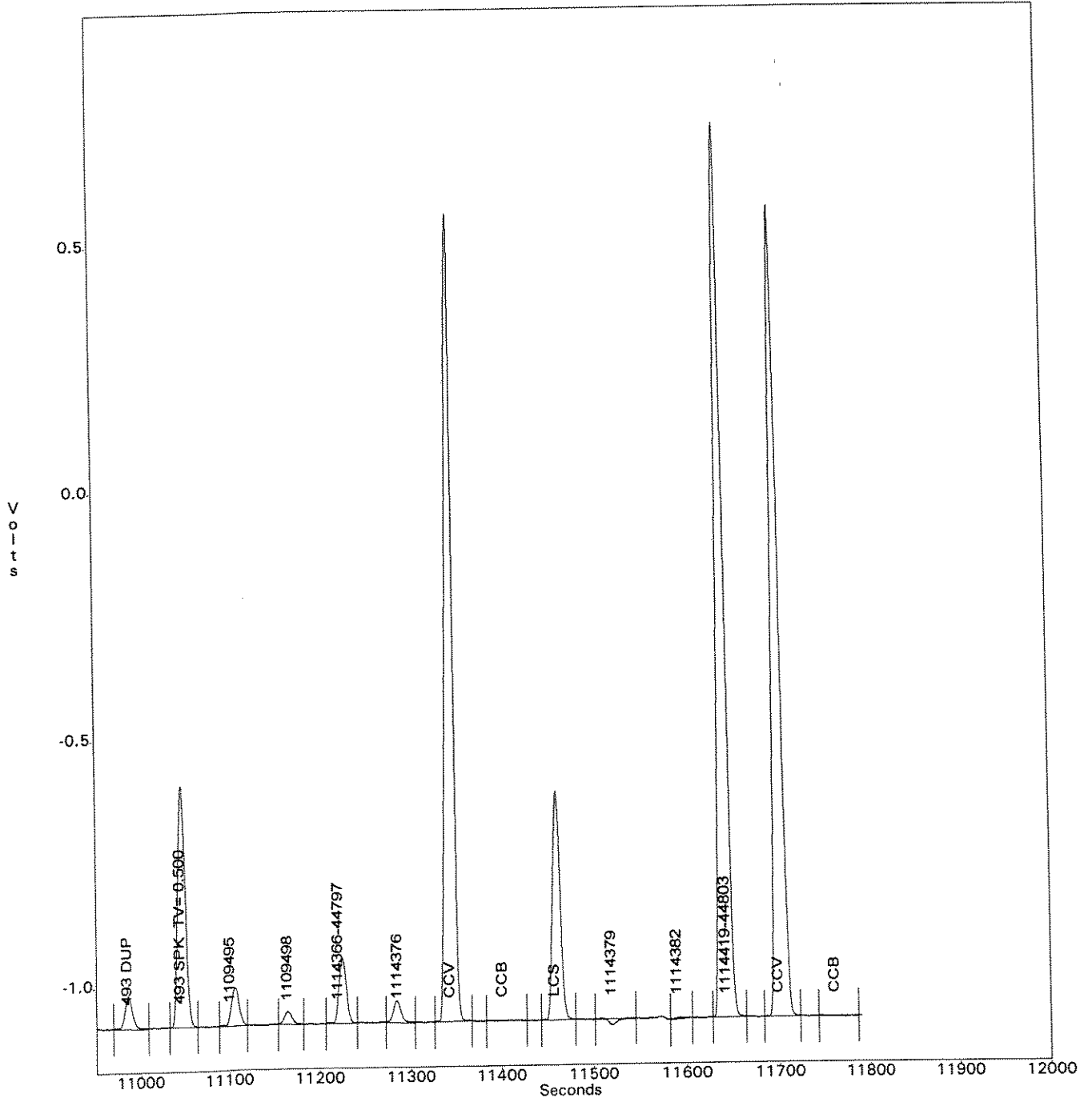
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 9:46:35
C:\OMNION\DATA\080703A1.FDT
C:\OMNION\TRAYS\0807030A.TRA

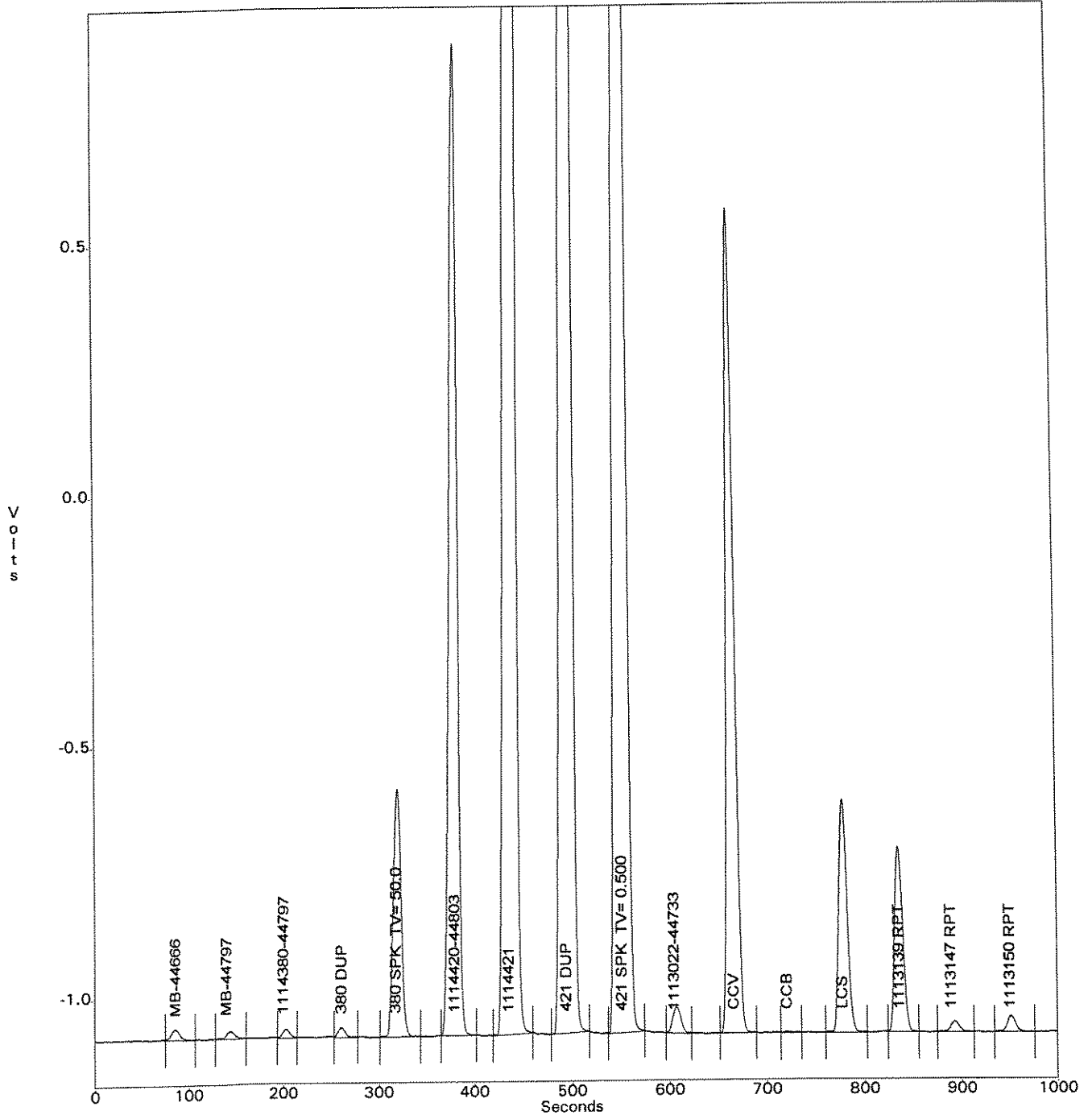
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 13:03:25
C:\OMNION\DATA\080703A2.FDT
C:\OMNION\TRAYS\080703A2.TRA

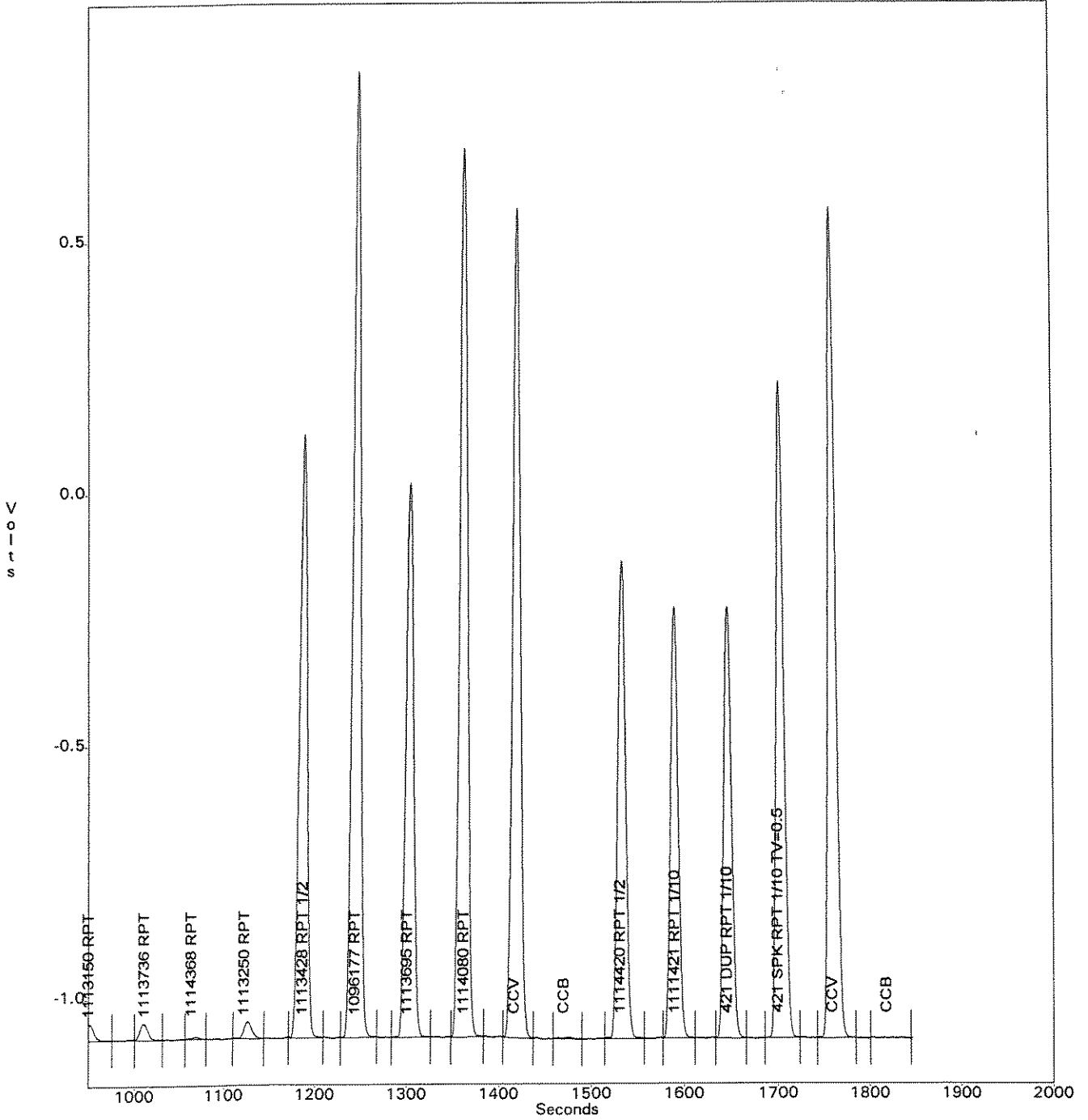
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 3, 2008 13:03:25
C:\OMNION\DATA\080703A2.FDT
C:\OMNION\TRAYS\080703A2.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
 ACQ. TIME: Jul 3, 2008 9:33:00
 DATA FILENAME: C:\OMNION\DATA\0807030A.FDT
 METHOD FILENAME:
 TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

TRAY DESCRIPTION:
 Created: Jul 2, 2008 15:56:25
 Modified: Jul 3, 2008 7:48:02
 QC 8000 350.1 Ammonia - RUN LOG - 0807030A
 DATA DESCRIPTION:
 Created: Jul 3, 2008 9:33:00
 Modified: Jul 3, 2008 9:33:00

Method - Ch. 1 (QC 8000 350.1 Ammonia)

METHOD DESCRIPTION:
 Created: Jun 8, 2007 13:44:01
 Modified: Jun 27, 2008 15:00:11
 Ammonia

ANALYTE DATA:
 Analyte Name: QC 8000 350.1 Ammonia
 Concentration Units: mg/L
 Chemistry: Direct
 Inject to Peak Start (s): 28.5
 Peak Base Width (s): 22.000
 % Width Tolerance: 50.000
 Threshold: 2877.000
 Autodilution Trigger: Off
 QuikChem Method:

CALIBRATION DATA:

Levels:
 1 : 2.000 2 : 1.000 3 : 0.500 4 : 0.200
 5 : 0.100 6 : 0.050 7 : 0.020 8 : 0.010
 9 : 0.000

Calibration Rep Handling: Average
 Calibration Fit Type: 1st Order Poly
 Force Though Zero: No
 Weighting Method: 1/X
 Concentration Scaling: None

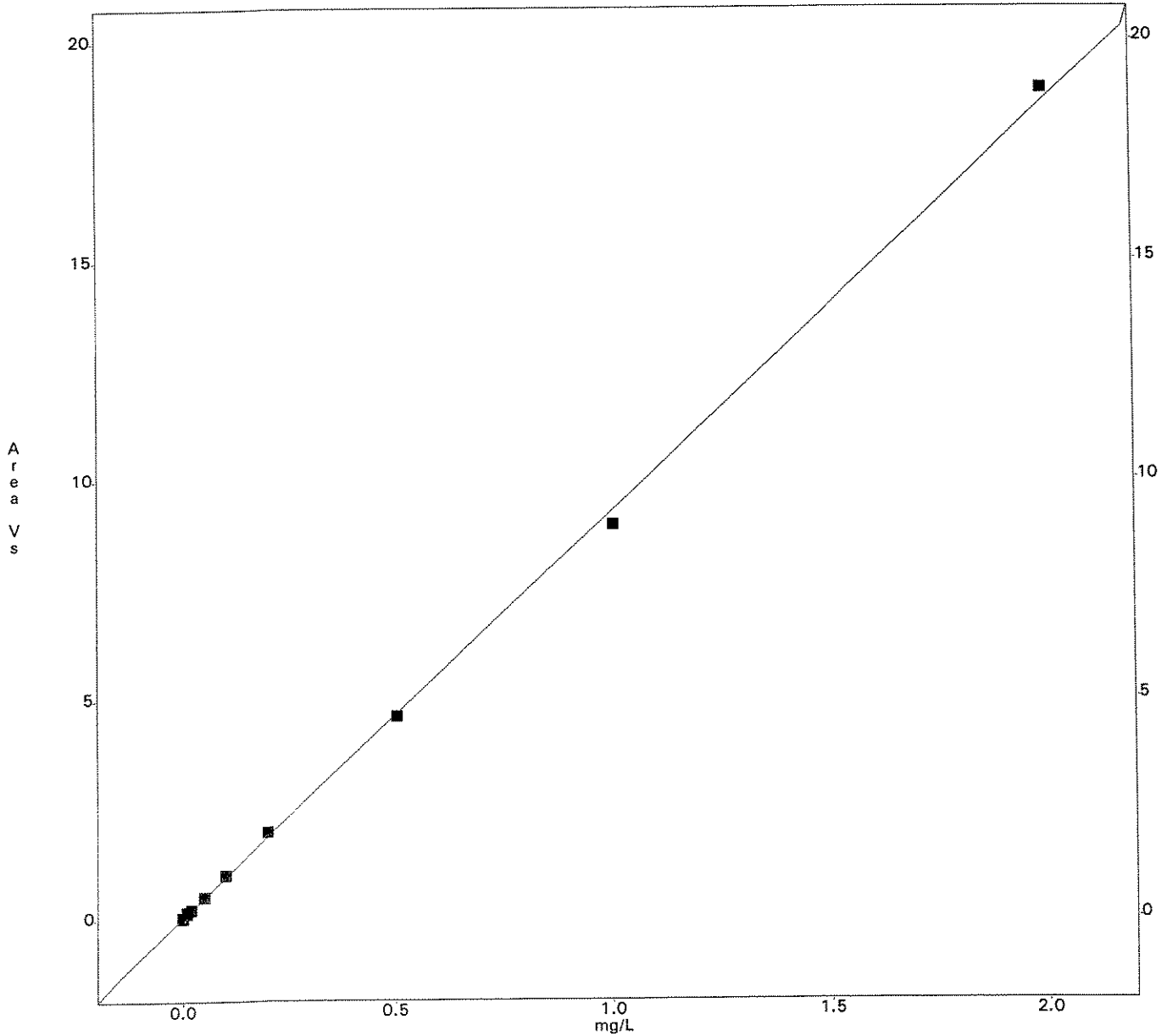
QC 8000 350.1 Ammonia

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	18881478	2.00	18881478					0.0	0.0	-1.6
2	8959946	1.00	8959946					0.0	0.0	3.8
3	4608416	0.50	4608416					0.0	0.0	1.6
4	1989770	0.20	1989770					0.0	0.0	-4.7
5	1011990	0.10	1011990					0.0	0.0	-4.0
6	516656	0.05	516656					0.0	0.0	-1.0
7	224143	0.02	230323	217963				8739.8	3.9	5.2
8	155319	0.01	172864	137773				24813.1	16.0	-15.3
9	44167	0.00	36259	52074				11182.9	25.3	

1st Order Poly
 Conc = 1.079e-007 Area - 5.233e-003
 r = 0.9996

*pipette ID 15: E-1
 ALI*

Scaling: None - Weighting: 1/X



Printed: Thursday, July 03, 2008 - 09:45 AM

4/7/03
DMGAmmonia (NH_3) [Laehat: $\text{pH} = 0.050$ Reg Level, 0.010 - Low Level]

(A) STANDARDS

STD.	CONC (mg/L)	mls 100ppm (W665166C)	mls Carrier-Diluent (W665165F)
A	2.000	2.00	8.00
B	1.000	1.00	9.00
C	0.500	0.50	9.50
D	0.200	0.20	9.80
E	0.100	$\frac{1}{10}$ Dil'n of STD B.) 1.000	
F	0.050	$\frac{1}{10}$ Dil'n of STD C.) 0.500	
G	0.020	$\frac{1}{10}$ Dil'n of STD D.) 0.200	
H	0.010	$\frac{1}{10}$ Dil'n of STD E.) 0.100	
I	0.000	10 mls of Carrier-Diluent	

(B) Icv/ccv : ($\text{TV} = 1.80 \text{ mg/L}$)

Do two (2) $\frac{1}{10}$ serial dilutions of the 180 ppm Reference Stock (W665156B). Prepare using Carrier-Diluent (W665165F)

(C) 10.0 ppm Working Stock

Do two (2) $\frac{1}{10}$ serial dilutions of the 1000 ppm Standard Stock (W665156A). Prepare using Carrier-Diluent (W665165F)

(D) LES/Matrix Spike : ($\text{TV} = 0.500 \text{ mg/L}$)

Add 0.050 mls 100 ppm working Stock (W665166C, 1st $\frac{1}{10}$ serial dilution) to 10 mls Carrier-Diluent (W665165F) or sample.

23/08
Nm

(A) NH₃/TKN 1000 ppm Standard Stock

3.819 granular NH₄Cl (WC85085F), previously dried for 2 hrs. @ 104°C: dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume w/ DI. Store @ 4°C. in amber glass. Expires 1/23/09.

(B) NH₃ 180 ppm Reference Stock

0.687g granular NH₄Cl (WC85085G), previously dried for 2 hrs. @ 104°C: dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume with DI. Store @ 4°C in amber glass. Expires 1/23/09.

(C) TKN 400 ppm Reference Stock

1.5276g granular NH₄Cl (WC85085G), previously dried for 2 hrs. @ 104°C; dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume with DI. Store @ 4°C. in amber glass. Expires 1/23/09.

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)

Date: 6/25/08 ✓

Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY 120.1			TEMP °C	Analyst	Time	HT** (y/n)	Meter*
				raw data	units	mhos/cm					
CCB	MB	6.334		0.555	uS	0.555	16°	Reg	945		J
R2-44641	1111908	7.209					15°	↓	↓	Y	↓
49A 44B R2-44650	1112066	7.440					10°	Reg	1050		J
↓	065	7.496					↓	↓	↓		↓
↓	065dup	7.519					↓	↓	↓		↓
↓	067	5.867					11°	↓	↓	↓	↓
CCV	10.0	10.040					16°	Reg	1050		J
CCV	4.0/2767	3.994		2.61	mS	2610	19°		1715		
R2-44578	1110351	9.845					20°			Y	
↓	348	7.577									
R2-44645	1111971	7.559									
R2-44655	1112086	7.054									
R2-44621	1111983	8.255		0.337	mS	337					
↓	983QC	8.297		0.339	mS	339					
↓	984	8.330		0.314	mS	314					
↓	985	7.989		0.496	mS	496					
↓	986	5.986		1.415	uS	1415					
↓	987	7.022		93.5	uS	935				↓	
CCV	4.0/146.9	4.037		145.3	uS	145.3			↓		
R2-44578	1111636	10.536							1755	Y	
↓	626dup	10.530								↓	
CCV	12.45	12.425									
CCB				0.375	uS	0.375					↓

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 ✓ 10.00 ✓ ICV check 7.00 6.971 TEMP. 15.9°C
 LOT #: BDB2674H BDB2680F BDB2680E

Conductivity Meter Calibration

(calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes) NO)

LOT #: BDB2684F

Cell Constant: 1.111

* Recall to high range by Reg on 6/25/08 @ 1755

N KCL: 2767 LOT #: BDB2684D

Reading 2630

7.0 ✓ BDB2680E

10% Limits: 2490.3 to 3043.7

12.45 ✓ BDB2683F

N KCL: 146.9 LOT #: BDB2684E

Reading 147.4

Temp 19.6°C

10% Limits: 132.2 TO 161.6

uS = 1 umhos/cm

mS = 1,000 umhos/cm

S = 1,000,000 umhos/cm

Analyst: Reg

DATE: 6/25/08 TIME: 940

77

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)
 Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Date: 6/26/08 ✓

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY 120.1			TEMP °C	Analyst	Time	HT** (y/n)	Meter* J/VWR
				raw data	units	mhos/cm					
CCB	MB	6.001		0.307	uS	0.307	19°	Reg	1120		J
CCV	10.0/2767	10.023		2.61	mS	2610	20°		1345		
R2-43431	1093425	7.029								Y	
	↓ 426	8.278									
R2-43431	↓ 426 dup	8.336									
R2-44666	1112361	9.381 9.381									
	↓ 362		8.883								
	↓ 363		8.152								
	↓ 363 dup		8.163								
	↓ 364		8.643								
	↓ 365		8.487								
R2-44650	1112486	7.675					15°				
	↓ 487	7.188									
	↓ 488	7.424									
	↓ 489	7.438									
CCV	10.0	10.029					20°				

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 ✓ 10.00 ✓ ICV check 7.00 6.992 TEMP. 19.6°C
 LOT #: BDB2674H BDB2680F BDB2680E

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes / NO) LOT #: BDB2684F
 Cell Constant: 1.114

N KCL: 2767 LOT #: BDB2684D Reading 2620
 10% Limits: 2490.3 to 3043.7

N KCL: 146.9 LOT #: BDB2684E Reading 146.5
 10% Limits: 132.2 TO 161.6

uS = 1 umhos/cm mS = 1,000 umhos/cm S = 1,000,000 umhos/cm

Analyst: Reg DATE: 6/26/08 TIME: 1115

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)
 Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Date: 6/27/08 pg. 1 ✓

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY			TEMP °C	Analyst	Time.	HT** (y/n)	Meter* J/VWR
				raw data	120.1 units	umhos/cm					
DI H ₂ O		6.953						UNC	1050		J
CCB	MB	6.769		0.313	us	0.313	22°	RA	1650		
CCV	4.0/146.9	4.0/4.010		146.0	us	146.0	21°				
R2-44252	1112985	7.587					17°			Y	
R2-441650	1112809	7.335					20°				
	810	7.214					↓				
	811	7.031					21°				
	812	6.166									
R2-441621	918	8.064		158.7	us	158.7					
	919	8.204		0.301	ms	301					
R2-441650	871	7.396									
	872	7.507									
	874	7.289									
	8749C	7.293								↓	
R2-441621	11129168 dup	8.122		161.5	us	161.5				Y	
CCV	10.0/2767	10.043		2661	ms	26610					
R2-441606	1113245		9.175							Y	
	249		9.370								
	250		8.858								
	2506C		8.905								
	254		8.099								
	255		7.982								
	256		9.391								

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 ✓ 10.00 ✓ ICV check 7.00 6.958 TEMP. 19°C
 LOT #: BDB2674H BDB2680F BDB2688E

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes / NO) LOT #: BDB284F
 Cell Constant: 1.122
 N KCL: 2767 LOT #: BDB2684D Reading 2620
 10% Limits: 2490.3 to 3043.7
 N KCL: 146.9 LOT #: BDB2684E Reading 146.3
 10% Limits: 132.2 TO 161.6

uS = 1 umhos/cm mS = 1,000 umhos/cm S = 1,000,000 umhos/cm

Analyst: UNC RA DATE: 6/27/08 TIME: 1045/1645

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)
 Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Date: 6/27/08 pg. 2 ✓

Sub. #	Order #	pH		Corrsivity	CONDUCTIVITY			TEMP °C	Analyst	Time	HT** (y/n)	Meter* J/VWR
		150.1/4500H*B	9040B		9045C	raw data	120.1 units					
R2-44666	1113257	8.714	8.714						RF	1805	Y	J
	258		7.980									
	259		8.439									
	262		8.648									
CCV	4.0	4.045			0.302							
CCB	MB	6.535			0.302	µS	0.302					

RF 6/27/08

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 _____ 10.00 _____ ICV check 7.00 _____ TEMP. _____

LOT #: information on previous page

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes / NO) LOT #: _____

Cell Constant: _____

N KCL: 2767 LOT #: _____ Reading: _____

10% Limits: 2490.3 to 3043.7

N KCL: 146.9 LOT #: _____ Reading: _____

10% Limits: 132.2 TO 161.6

µS = 1 umhos/cm

mS = 1,000 umhos/cm

S = 1,000,000 umhos/cm

Analyst: _____

DATE: _____ TIME: _____

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)

Date: 6/28/08



Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY 120.1			TEMP °C	Analyst	Time	HT** (y/n)	Meter* J/VWR
				raw data	units	mhos/cm					
DI H ₂ O		7.215					23.5	HP	10:30		J
R2844756	1113320										
	1113320										
	111										
CCV	4.0	4.031									
R2844756	1113320	7.795								Y	
↓	1113320 DUP	7.805									
	1113321	7.555									
CCV	10	16.048									
R2844650	1113426	7.185						AKH	12:20	Y	
	427	7.374									
	428	7.637									
	427	8.070									
	429	7.591									
	429	7.609									
CCV	10 4.0	4.043									

AKH 6/28/08

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 10.00 ICV check 7.00 7.001 TEMP. 20.0 °C
 LOT #: BDB2674H BDB2680F BDB2680E

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes / NO) LOT #: _____

Cell Constant: _____

N KCL: 2767 LOT #: _____ Reading _____
 10% Limits: 2490.3 to 3043.7

N KCL: 146.9 LOT #: _____ Reading _____
 10% Limits: 132.2 TO 161.6

uS = 1 umhos/cm mS = 1,000 umhos/cm S = 1,000,000 umhos/cm

Analyst: _____ DATE: _____ TIME: _____

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)

Date: 7/24/08 ✓

Conductivity holding time is 48 hrs from sample date

pH holding time is 15 minutes from collection

Sub. #	Order #	pH 150.1/4500H ⁺ B 9040B	Corrsivity 9045C	CONDUCTIVITY 120			TEMP °C	Analyst	Time	HT** (y/n)	Meter J/VWR
				raw data	units	umhos/cm					
CCB		6.912		0.415	us	0.415		KMC	1420		J
44650	1113426			8.14	ms	8140				N	
	26			8.21	ms	8210					
	27			9.65	ms	9650					
	28			7.58	ms	7580					
	29			4.13	ms	4130					
	30			6.51	ms	6510					
44768	1113695			1.415	us	1.415					
	96			16.45	ms	16450					
	97			1.743	ms	1743					
	98			3.98	ms	3980					
	99			3.92	ms	3920					
44803	1114419			10.74	ms	10740					
	420			10.34	ms	10340					
	421			11.34	ms	11340					
	421			11.46	ms	11460					
	756			5.82	ms	5820					
	758			3.20	us	3200					
CCV 2767				2.74	ms	2740					
44771	1120412	7.399									
		7.422									
	1120411	7.440									
CCV	4.0	4.048									

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 ✓ 10.00 ✓ ICV check 7.00 6.984 TEMP. 18°C

LOT #: BDB26741 BDB2680F BDB2680E

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes / NO) LOT #: BDB2684F

Cell Constant: 1.103

N KCL: 2767 LOT #: BDB2656A Reading 2630
 10% Limits: 2490.3 to 3043.7

N KCL: 146.9 LOT #: BDB2674E Reading 143.3
 10% Limits: 132.2 TO 161.6

us = 1 umhos/cm mS = 1,000 umhos/cm S = 1,000,000 umhos/cm

Analyst: KMC DATE: 7/24/08 TIME: 1415

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)

Date: 7/24/08 Page 2 ✓

Conductivity holding time is 48 hrs from sample date

pH holding time is 15 minutes from collection

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY			TEMP °C	Analyst	Time	HT** (y/n)	Meter J/VWR
				raw data	units	mhos/cm					
44866	1115782			8.19	mS	8190		KMC	1420	N	J
	83			0.968	mS	968					
	84			5.73	mS	5730					
	85			6.13	mS	6130					
	1116367			7.19	mS	7190					
	67			7.23	mS	7230					
	70			3.87	mS	3870					
	73			1.440	mS	1440					
	921			16.79	mS	16790					
	922			7.81	mS	7810					
	1117196			3.14	mS	3140					
	97			16.91	mS	16910					
CCV	146.9us			146.6	uS	1466					
CCV	7.0	6.998						KMC	1600		
45088	1120382	6.772								Y	Y
		7.846								Y	Y
CCV		4.048									

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 _____ 10.00 _____ ICV check 7.00 _____ TEMP. _____

LOT #: _____

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes / NO) LOT #: _____

Cell Constant: _____

N KCL: 2767 LOT #: _____ Reading _____

10% Limits: 2490.3 to 3043.7

N KCL: 146.9 LOT #: _____ Reading _____

10% Limits: 132.2 TO 161.6

S = 1,000,000 umhos/cm

uS = 1 umhos/cm

mS = 1,000 umhos/cm

Analyst: _____ DATE: _____ TIME: _____

07

Run #: 164109

Analyte: CR+6 218.6 CR+6 HEX-CHROM BY IC

Printed: 08/08/08 09:29

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1118366	WATER	0.503	1.0	0.0100	100.5		07/16/08		
BLK1		1118367	WATER	0.0100	U	1.0	0.0100		07/16/08		
SPKB		1118368	WATER	0.198		1.0	0.0100	99.2	07/16/08		
SPKB		1118369	WATER	0.203		1.0	0.0100	101.6	07/16/08		
ESMP	R2844650	1112065	WATER	0.809		20.0	0.0100		07/16/08	RUN	ASPB
LDUP		1118370	WATER	0.802		20.0	0.0100	0.84	07/16/08		
SPK1		1118371	WATER	4.91		20.0	0.0100	102.6	07/16/08		
ESMP	R2844650	1112066	WATER	0.100	U	10.0	0.0100		07/16/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.100	U	10.0	0.0100		07/16/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	0.100	U	10.0	0.0100		07/16/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	0.100	U	10.0	0.0100		07/16/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	0.713		10.0	0.0100		07/16/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	0.100	U	10.0	0.0100		07/16/08	RUN	ASPB
ESMP	R2844650	1112809	WATER	0.100	U	10.0	0.0100		07/16/08		ASPB
ESMP	R2844650	1112810	WATER	0.100	U	10.0	0.0100		07/16/08		ASPB
ESMP	R2844650	1112811	WATER	0.100	U	10.0	0.0100		07/16/08		ASPB
LDUP		1118372	WATER	0.100	U	10.0	0.0100		07/16/08		
SPK1		1118373	WATER	1.88		10.0	0.0100	93.8	07/16/08		
ESMP	R2844650	1112812	WATER	0.100	U	10.0	0.0100		07/16/08		ASPB
ESMP	R2844650	1112871	WATER	1.31		10.0	0.0100		07/16/08		ASPB
ESMP	R2844650	1112872	WATER	0.882		10.0	0.0100		07/16/08		ASPB
ESMP	R2844650	1112874	WATER	0.100	U	10.0	0.0100		07/16/08	QC	ASPB
LDUP		1118374	WATER	0.100	U	10.0	0.0100		07/16/08		
SPK1		1118375	WATER	1.98		10.0	0.0100	99.0	07/16/08		
ESMP	R2844650	1113426	WATER	6.34		10.0	0.0100		07/16/08		ASPB
ESMP	R2844650	1113427	WATER	0.100	U	10.0	0.0100		07/16/08		ASPB
ESMP	R2844650	1113428	WATER	1.23		10.0	0.0100		07/16/08		ASPB
ESMP	R2844650	1113429	WATER	0.0655		10.0	0.0100		07/16/08		ASPB
ESMP	R2844650	1113430	WATER	0.898		10.0	0.0100		07/16/08		ASPB
ESMP	R2844768	1113695	WATER	0.0680		10.0	0.0100		07/16/08		ASPB
ESMP	R2844768	1113696	WATER	0.100	U	10.0	0.0100		07/16/08		ASPB
ESMP	R2844768	1113697	WATER	0.0793		10.0	0.0100		07/16/08		ASPB
ESMP	R2844768	1113698	WATER	0.0361		10.0	0.0100		07/16/08		ASPB
ESMP	R2844768	1113699	WATER	0.0401		10.0	0.0100		07/16/08		ASPB
ESMP	R2844803	1114758	WATER	0.100	U	10.0	0.0100		07/16/08		ASPB
ESMP	R2844866	1115782	WATER	4.98		10.0	0.0100		07/16/08		ASPB
ESMP	R2844866	1115783	WATER	0.100	U	10.0	0.0100		07/16/08		ASPB
ESMP	R2844866	1115784	WATER	0.0907		10.0	0.0100		07/16/08		ASPB
ESMP	R2844866	1115785	WATER	0.324		10.0	0.0100		07/16/08		ASPB
ESMP	R2844866	1116367	WATER	1.12		10.0	0.0100		07/16/08	QC	ASPB
LDUP		1118376	WATER	1.12		10.0	0.0100	0.44	07/16/08		
SPK1		1118377	WATER	3.00		10.0	0.0100	93.8	07/16/08		
ESMP	R2844866	1116370	WATER	1.48		10.0	0.0100		07/16/08		ASPB
ESMP	R2844866	1116373	WATER	0.0144		10.0	0.0100		07/16/08		ASPB
ESMP	R2844866	1116921	WATER	0.333		10.0	0.0100		07/16/08		ASPB
ESMP	R2844866	1116922	WATER	0.510		10.0	0.0100		07/16/08		ASPB
ESMP	R2844866	1117196	WATER	0.0589		10.0	0.0100		07/16/08		ASPB
ESMP	R2844866	1117197	WATER	0.100	U	10.0	0.0100		07/16/08		ASPB

Records printed: 48

ANALYTE:G:\STARLIMS\ASBAR.RP1

Page 1

1897 CP
8/11/08

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
1	STANDARD 1	Calibration St	1	cr6-716.met	716_001.dxd	1	
2	STANDARD 2	Calibration St	2	cr6-716.met	716_002.dxd	1	
3	STANDARD 3	Calibration St	3	cr6-716.met	716_003.dxd	1	
4	STANDARD 4	Calibration St	4	cr6-716.met	716_004.dxd	1	
5	STANDARD 5	Calibration St	5	cr6-716.met	716_005.dxd	1	
6	STANDARD 6	Calibration St	6	cr6-716.met	716_006.dxd	1	
7	ICV	Sample		cr6-716.met	716_007.dxd	1	
8	ICB	Sample		cr6-716.met	716_008.dxd	1	
9	LCS	Sample		cr6-716.met	716_009.dxd	1	
10	1112065	Sample		cr6-716.met	716_010.dxd	10	
11	1112066	Sample		cr6-716.met	716_011.dxd	10	
12	1112067	Sample		cr6-716.met	716_012.dxd	10	
13	1112486	Sample		cr6-716.met	716_013.dxd	10	
14	1112487	Sample		cr6-716.met	716_014.dxd	10	
15	1112488	Sample		cr6-716.met	716_015.dxd	10	
16	1112489	Sample		cr6-716.met	716_016.dxd	10	
17	1112809	Sample		cr6-716.met	716_017.dxd	10	
18	1112810	Sample		cr6-716.met	716_018.dxd	10	
19	1112811	Sample		cr6-716.met	716_019.dxd	10	
20	1112811 DUP	Sample		cr6-716.met	716_020.dxd	10	
21	1112811 SPK	Sample		cr6-716.met	716_021.dxd	10	
22	CCV	Sample		cr6-716.met	716_022.dxd	1	
23	CCB	Sample		cr6-716.met	716_023.dxd	1	
24	1112812	Sample		cr6-716.met	716_024.dxd	10	
25	1112871	Sample		cr6-716.met	716_025.dxd	10	
26	1112872	Sample		cr6-716.met	716_026.dxd	10	
27	1112874	Sample		cr6-716.met	716_027.dxd	10	
28	1112874 DUP	Sample		cr6-716.met	716_028.dxd	10	
29	1112874 SPK	Sample		cr6-716.met	716_029.dxd	10	
30	1113426	Sample		cr6-716.met	716_030.dxd	10	
31	1113427	Sample		cr6-716.met	716_031.dxd	10	
32	1113428	Sample		cr6-716.met	716_032.dxd	10	
33	1113429	Sample		cr6-716.met	716_033.dxd	10	
34	1113430	Sample		cr6-716.met	716_034.dxd	10	
35	1113695	Sample		cr6-716.met	716_035.dxd	10	
36	CCV	Sample		cr6-716.met	716_036.dxd	1	
37	CCB	Sample		cr6-716.met	716_037.dxd	1	
38	LCS	Sample		cr6-716.met	716_038.dxd	1	
39	1113696	Sample		cr6-716.met	716_039.dxd	10	
40	1113697	Sample		cr6-716.met	716_040.dxd	10	
41	1113698	Sample		cr6-716.met	716_041.dxd	10	
42	1113699	Sample		cr6-716.met	716_042.dxd	10	
43	1114419	Sample		cr6-716.met	716_043.dxd	10	
44	1114420	Sample		cr6-716.met	716_044.dxd	10	
45	1114421	Sample		cr6-716.met	716_045.dxd	10	

Analyst: Woods

Pipets: Mine
Lucy

Hary

Herpic 44650
44768
44803
44866

Reviewed & Approved

By: B. Bove
Date: 7/23/08, 8/8/08

1898
CP 8/11/08

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
46	1114421 DUP	Sample		cr6-716.met	716_046.dxd	10	
47	1114421 SPK	Sample		cr6-716.met	716_047.dxd	10	
48	1114756	Sample		cr6-716.met	716_048.dxd	10	
49	1114758	Sample		cr6-716.met	716_049.dxd	10	
50	1115782	Sample		cr6-716.met	716_050.dxd	10	
51	CCV	Sample		cr6-716.met	716_051.dxd	1	
52	CCB	Sample		cr6-716.met	716_052.dxd	1	
53	1115783	Sample		cr6-716.met	716_053.dxd	10	
54	1115784	Sample		cr6-716.met	716_054.dxd	10	
55	1115785	Sample		cr6-716.met	716_055.dxd	10	
56	1116367	Sample		cr6-716.met	716_056.dxd	10	
57	1116367 DUP	Sample		cr6-716.met	716_057.dxd	10	
58	1116367 SPK	Sample		cr6-716.met	716_058.dxd	10	
59	1116370	Sample		cr6-716.met	716_059.dxd	10	
60	1116373	Sample		cr6-716.met	716_060.dxd	10	
61	1116921	Sample		cr6-716.met	716_061.dxd	10	
62	1116922	Sample		cr6-716.met	716_062.dxd	10	
63	1117196	Sample		cr6-716.met	716_063.dxd	10	
64	1117197	Sample		cr6-716.met	716_064.dxd	10	
65	CCV	Sample		cr6-716.met	716_065.dxd	1	
66	CCB	Sample		cr6-716.met	716_066.dxd	1	
67	1112065	Sample		cr6-716.met	716_067.dxd	20	
68	1112065 DUP	Sample		cr6-716.met	716_068.dxd	20	
69	1112065 SPK	Sample		cr6-716.met	716_069.dxd	20	
70	CCV	Sample		cr6-716.met	716_070.dxd	1	
71	CCB	Sample		cr6-716.met	716_071.dxd	1	

Default Method Path: J:\ACQU\DATA\IC\METHOD.AC\IC#1\CR6

Default Data Path: J:\ACQU\DATA\IC\DATA\IC#1\CR6\071608

Comment:

1899

 ep
 8/11/08

Columbia Analytical Services
1 Mustard St., Suite 250
Rochester, NY 14609-0859

Analyst: C. Woods
Date: 7-16-08

Hexavalent Chromium: Method 7199

Method 218.6

Submission Number	Sample ID	Sample pH	Analysis Date
R-44650	1112065	9.41	7/16/08
	1112066	9.36	7/16/08
	1112067	9.38	7/16/08
	1112486	9.68	7/16/08
	1112487	9.62	7/16/08
	1112488	9.54	7/16/08
	1112489	9.50	7/16/08
	1112809	9.58	7/16/08
	1112810	9.32	7/16/08
	1112811	9.37	7/16/08
	1112812	9.54	7/16/08
	1112871	9.61	7/16/08
	1112872	9.69	7/16/08
	1112874	9.66	7/16/08
	1113426	9.31	7/16/08
	1113427	9.36	7/16/08
	1113428	9.42	7/16/08
	1113429	9.39	7/16/08
	1113430	9.34	7/16/08
R-44769	1113695	9.68	7/16/08

*Note: Sample pH must be between 9.3 and 9.7 for analysis. pH is taken just prior to analysis.

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICV
Data File Name : ...\\716_007.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 11:45:56

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

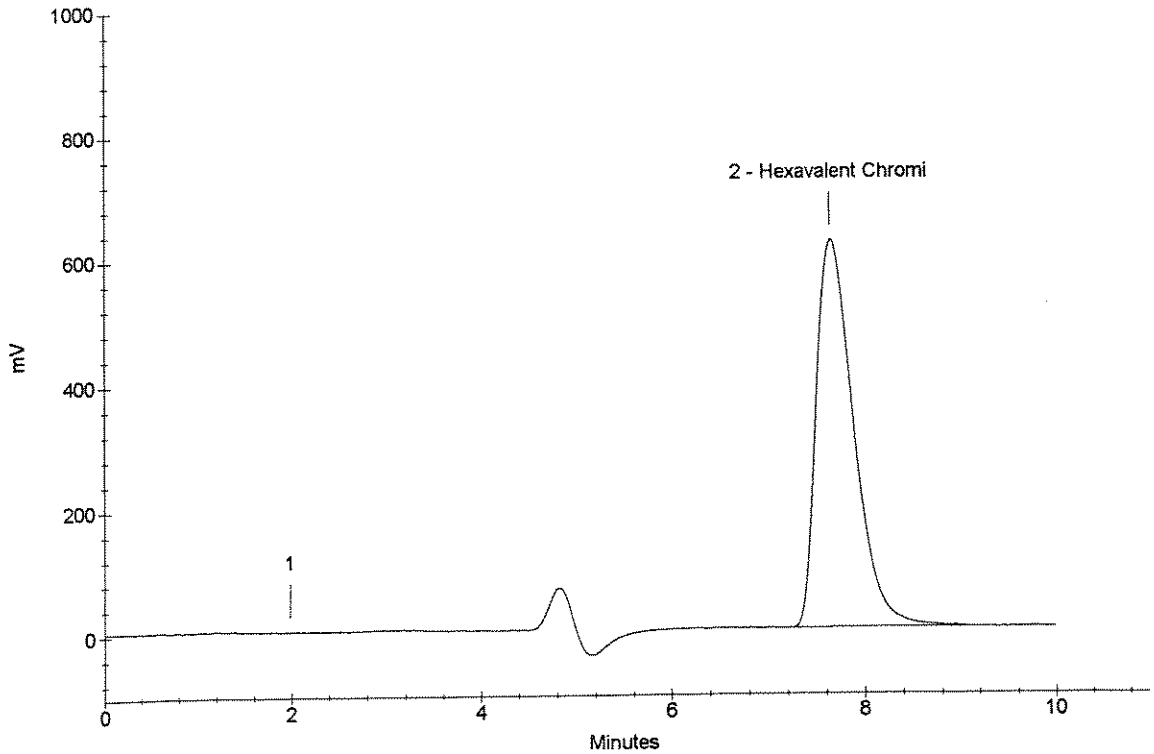
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.68	Hexavalent Chromi <i>OK</i>	0.5027	16708230

ICV 8/8/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICB
Data File Name : ...716_008.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 11:56:21

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

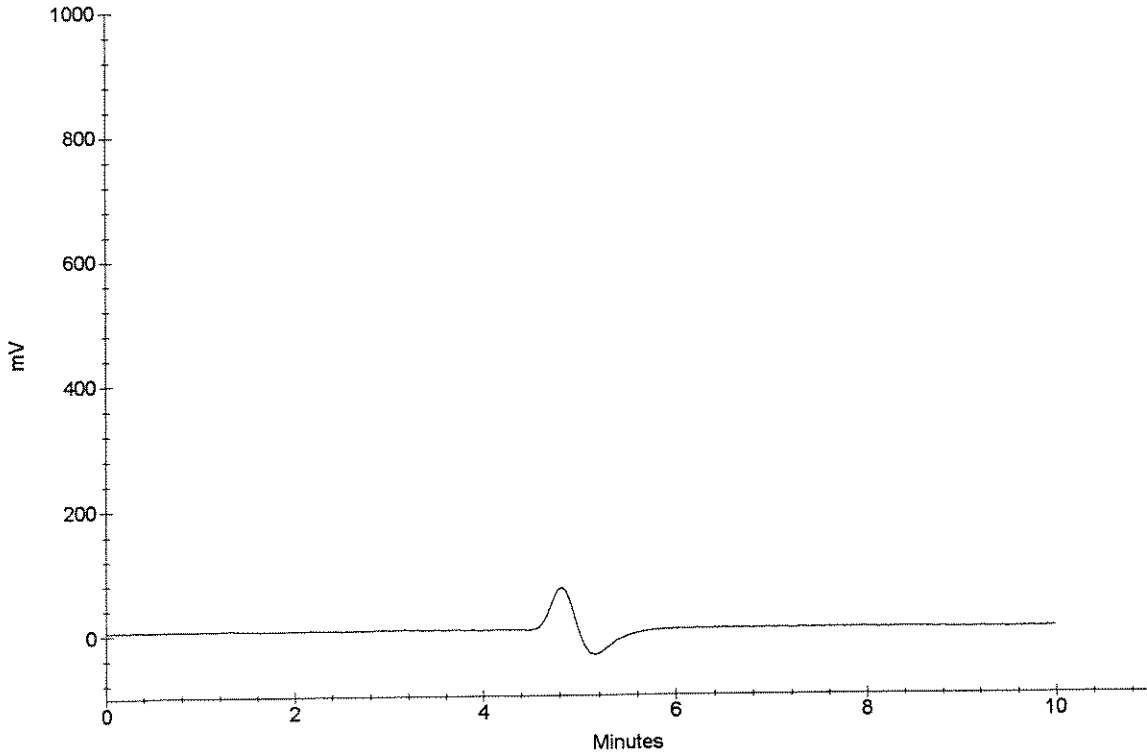
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
ICB 8/8/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\\716_009.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 12:06:45

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

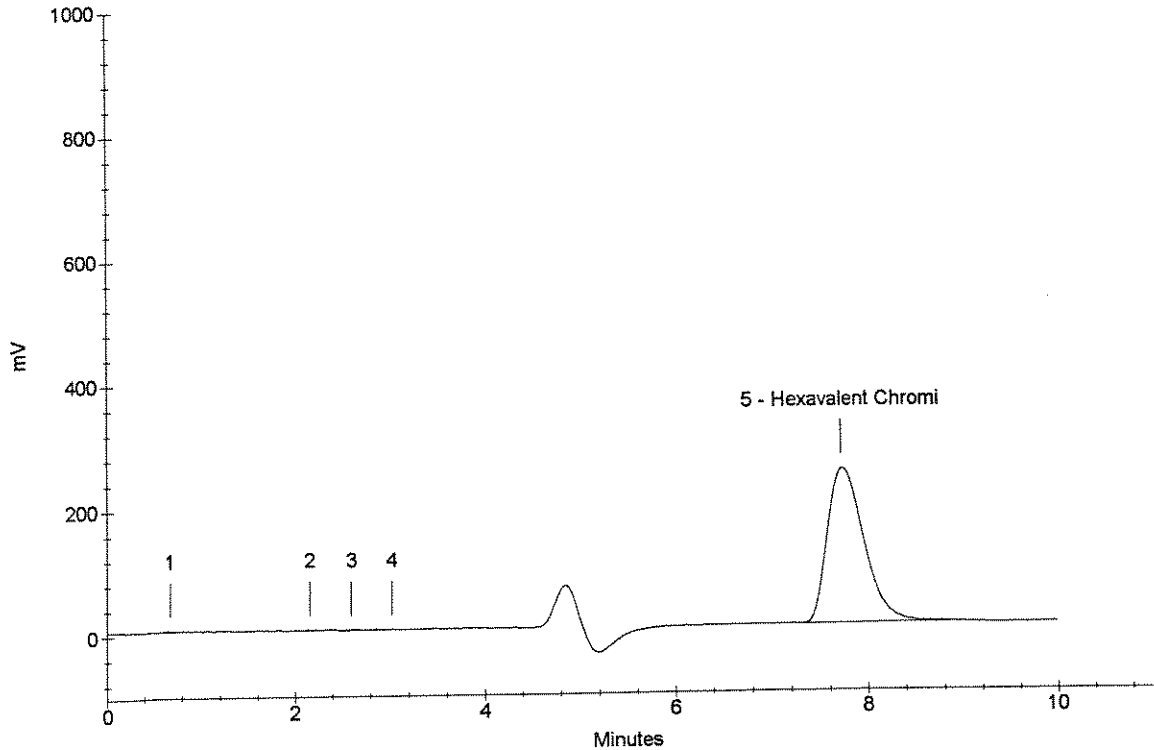
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
5	7.74	Hexavalent Chromi	0.1984	6599758

OK
8/1/08
LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112065
Data File Name : ...716_010.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 12:17:09

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

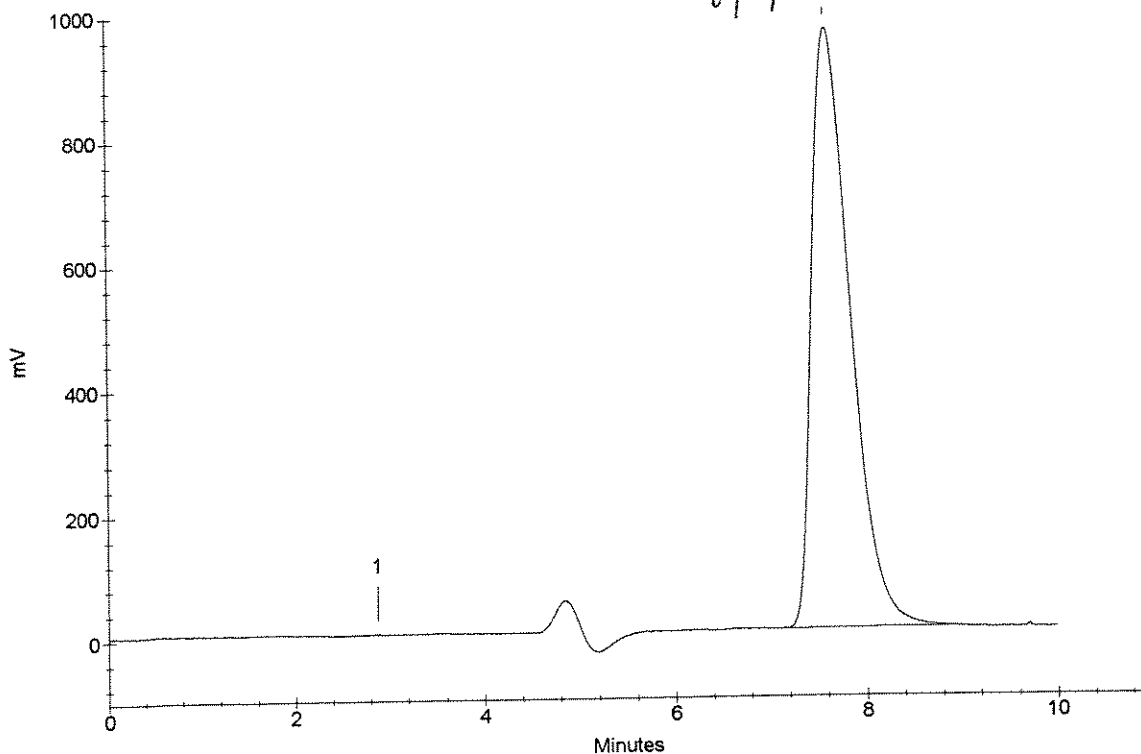
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.64	Hexavalent Chromi	8.0180	26645916

Handwritten notes:
OK
Rpt @ 1/20
1112065
8/8/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112066
Data File Name : ...716_011.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 12:27:34

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

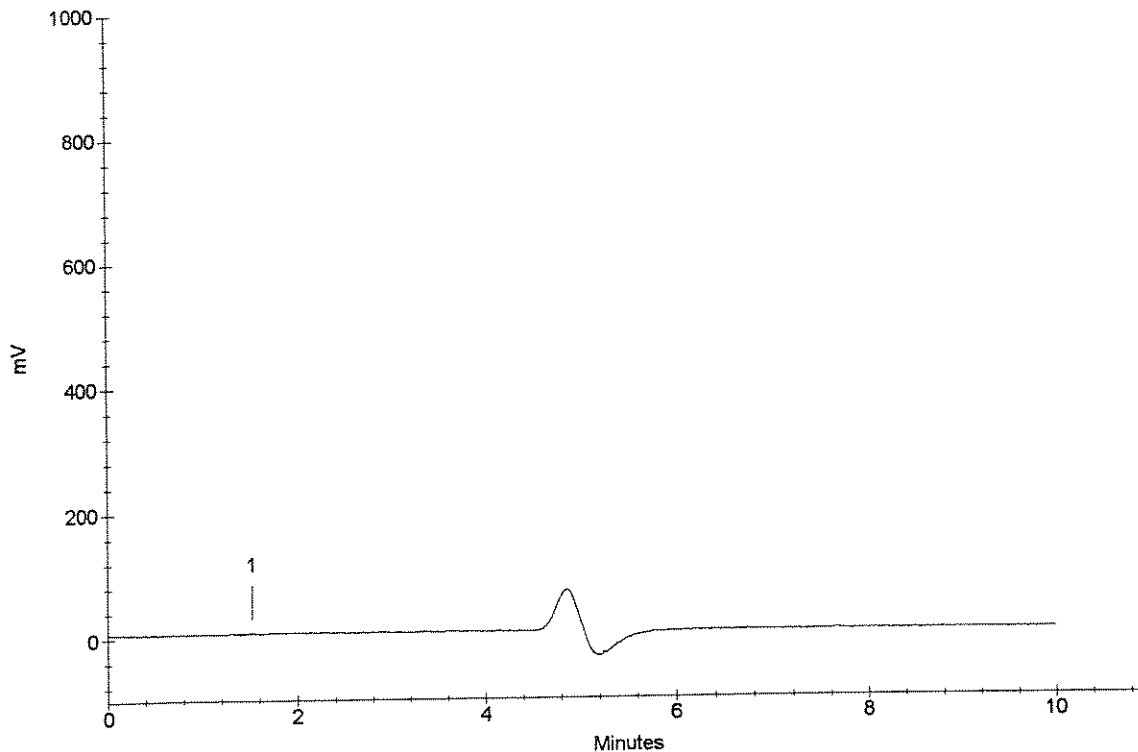
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
8/8/08
1112066



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112067
Data File Name : ...\\716_012.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 12:37:58

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

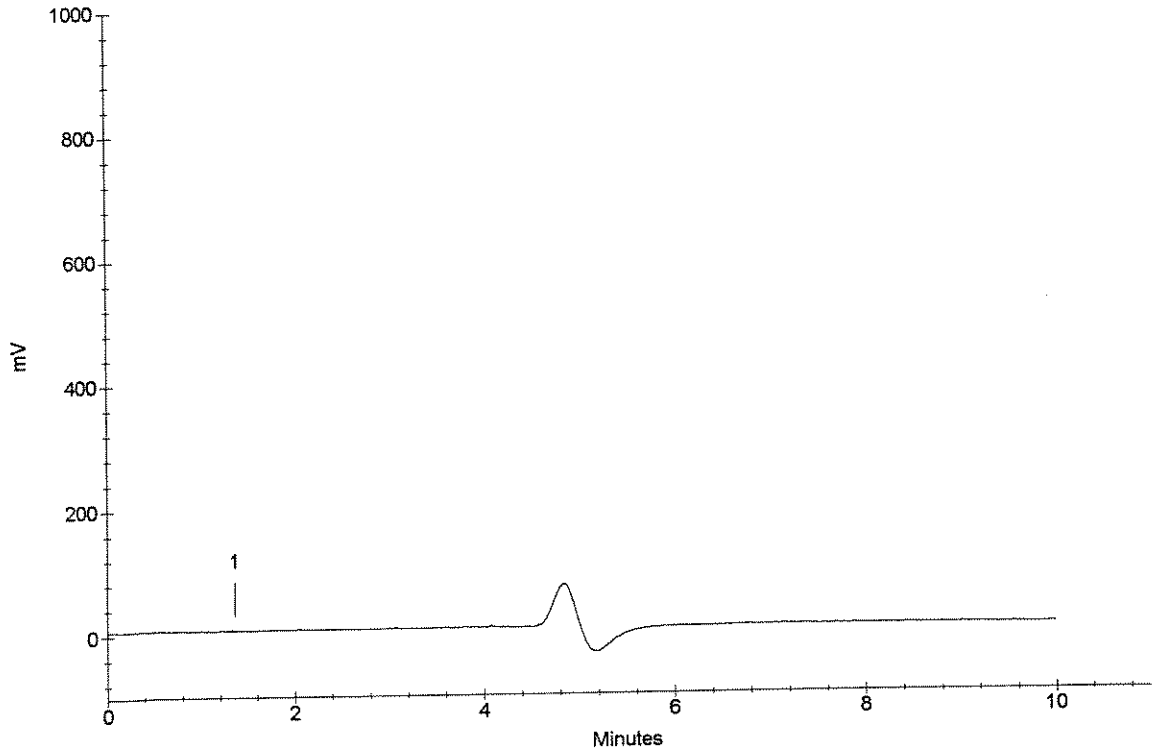
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
1112067
8/8/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112486
Data File Name : ...716_013.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 12:48:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

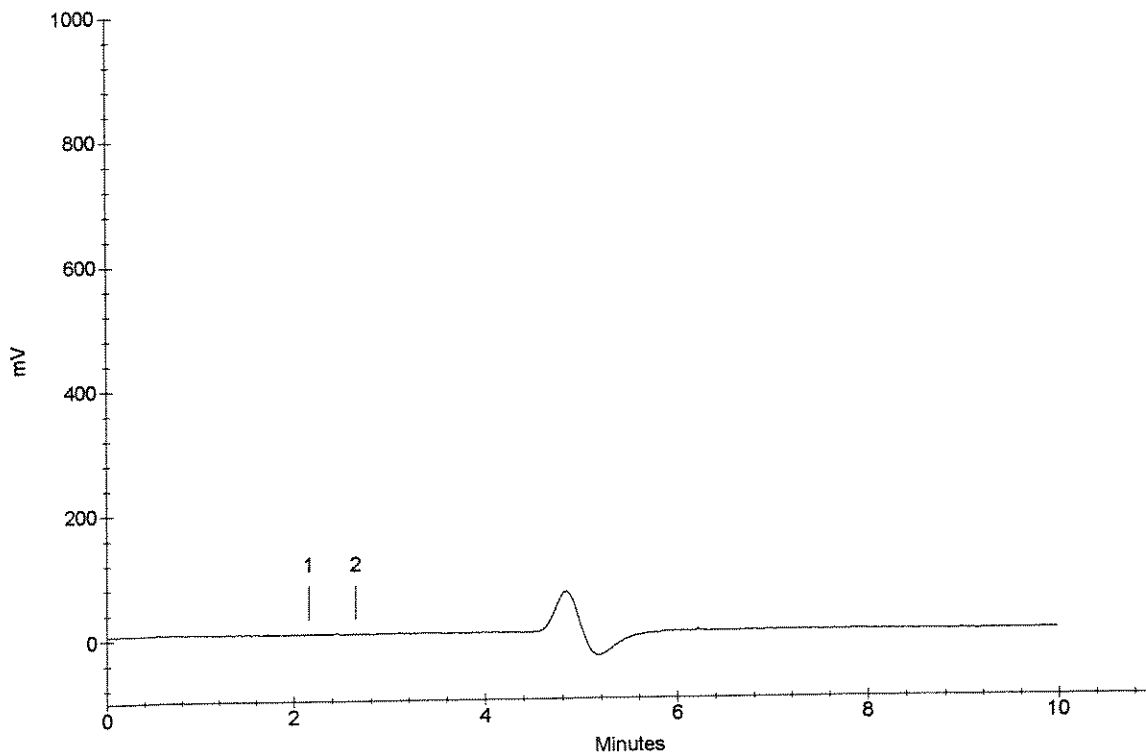
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
C
8/8/08
1112486



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112487
Data File Name : ...716_014.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 12:58:47

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

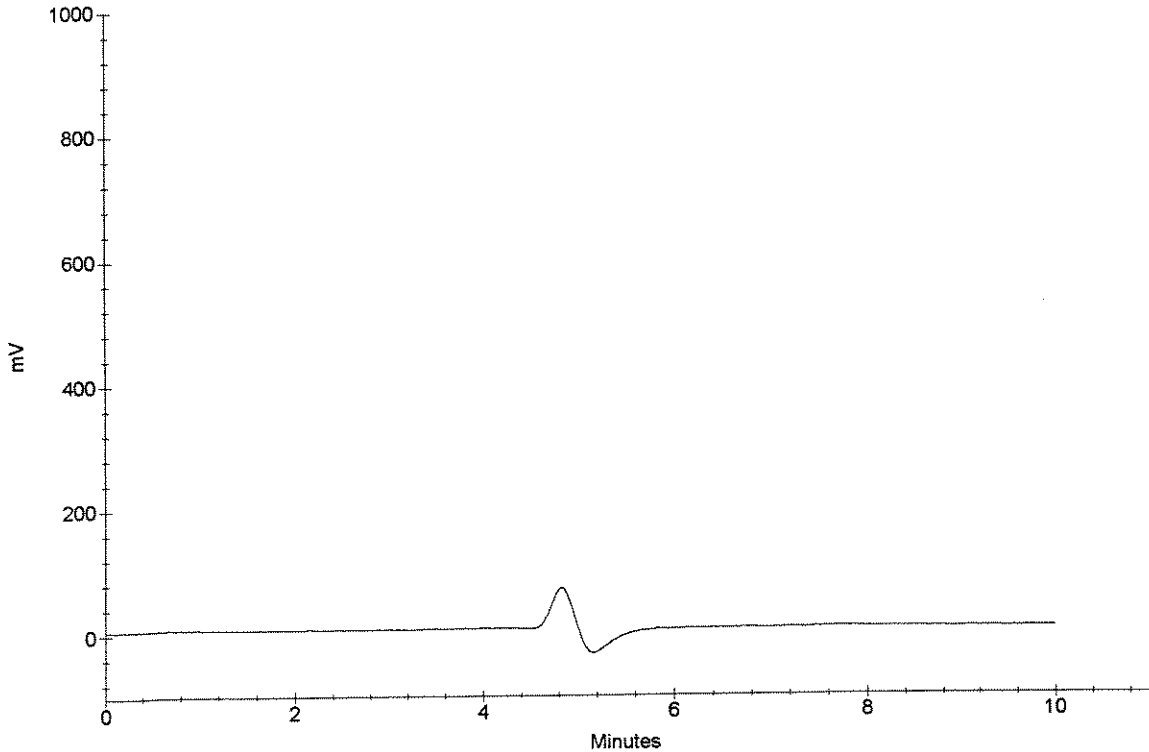
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
8/8/08

1112487



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112488
Data File Name : ...716_015.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 13:09:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

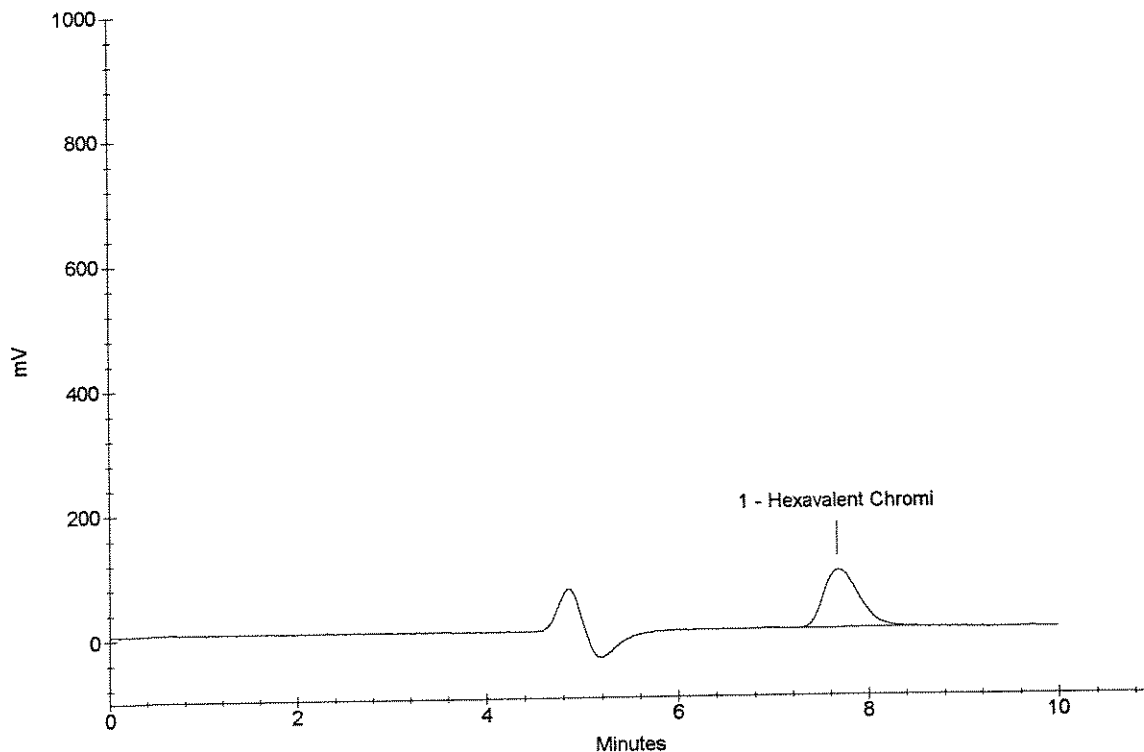
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.68	Hexavalent Chromi	0.7127	2375457

OK
CM
8/6/08
1112488



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112489
Data File Name : ...716_016.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 13:19:35

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

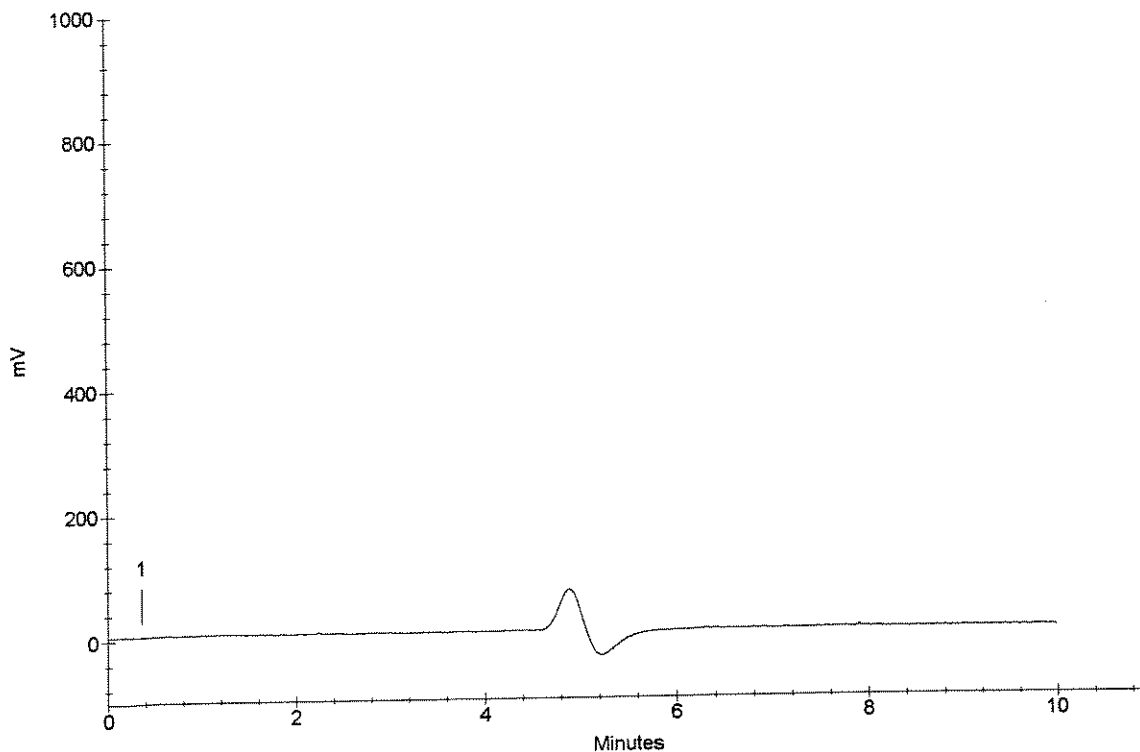
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
1112489



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112809
Data File Name : ...716_017.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 13:29:59

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

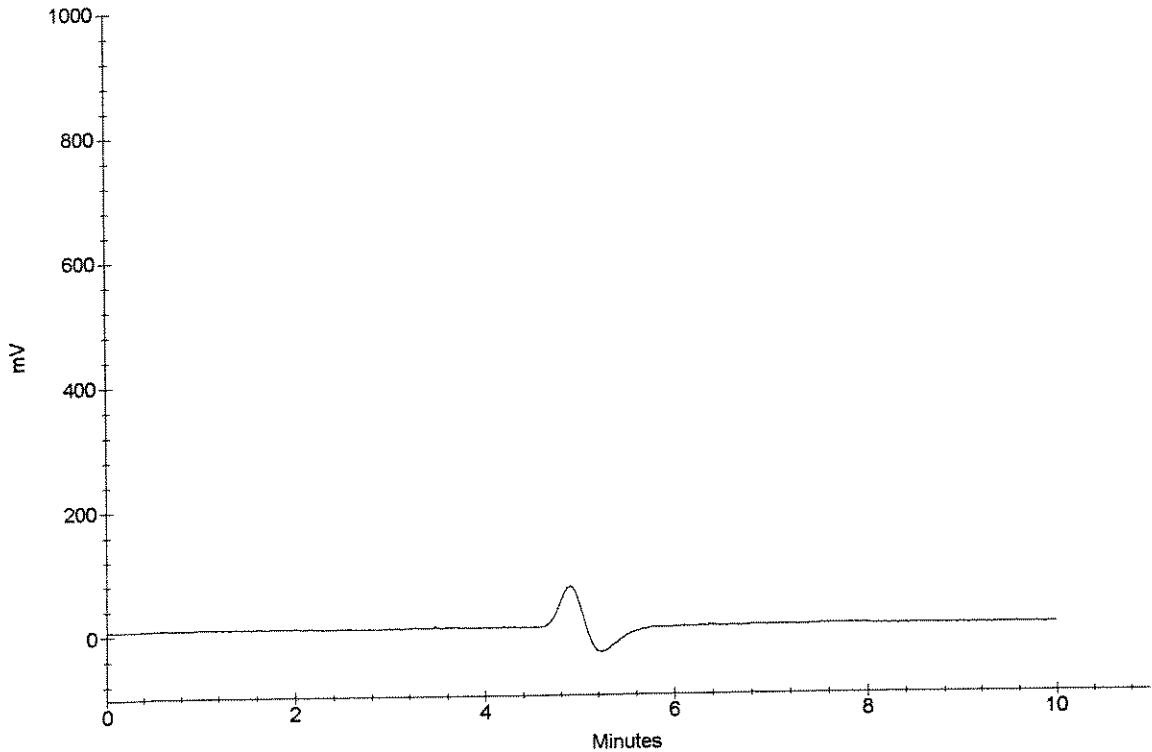
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
C/S/B/A
1112809



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112810
Data File Name : ...\\716_018.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 13:40:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

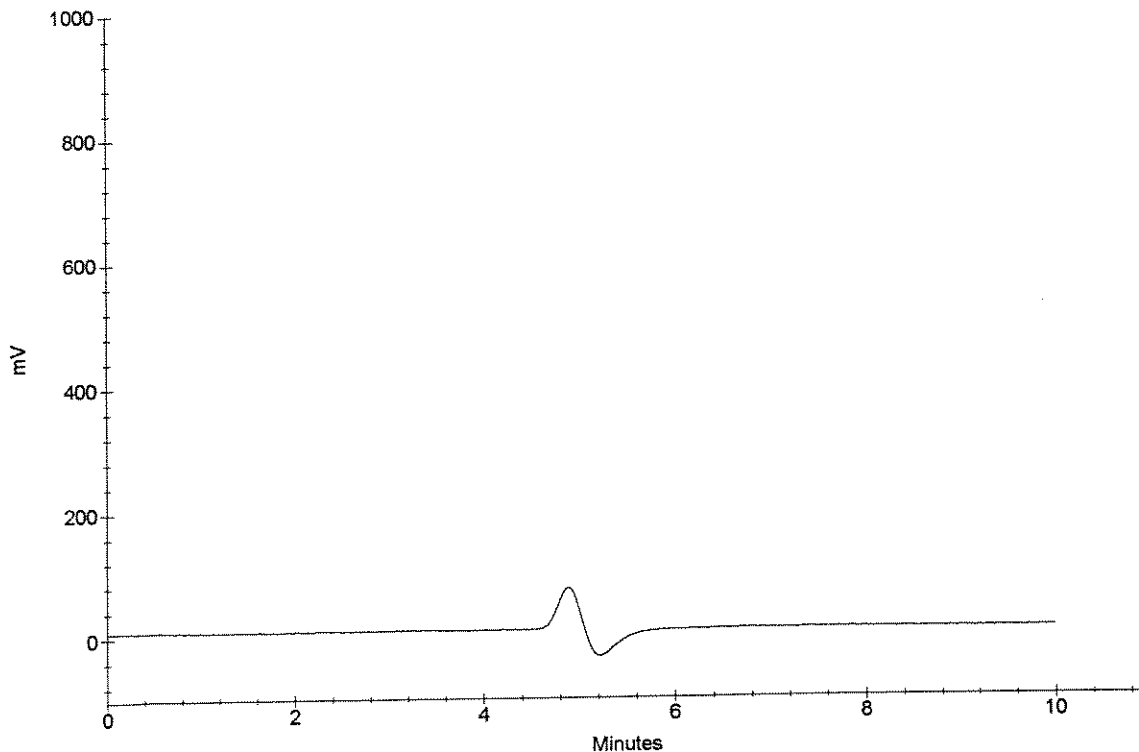
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
7/16/08
1112810



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112811
Data File Name : ...\\716_019.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 13:50:46

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

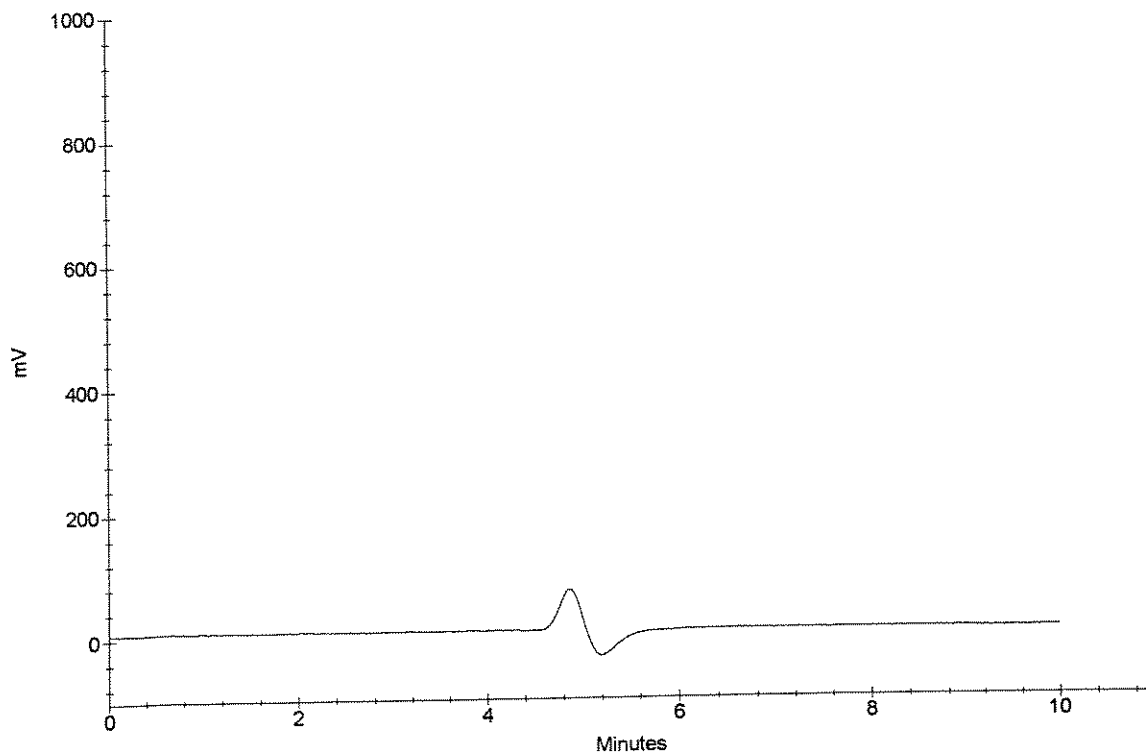
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
5/8/08
1112811



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112811 DUP
Data File Name : ...716_020.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 14:01:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

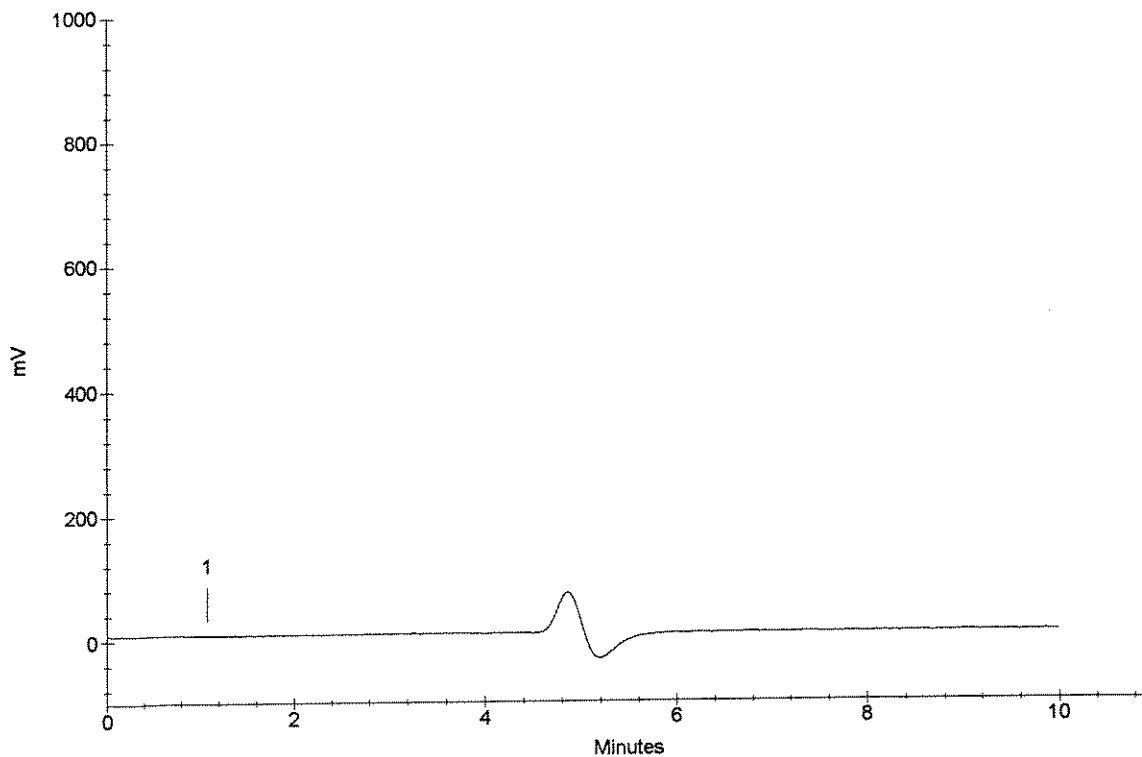
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
7/15/08
1112811 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112811 SPK
Data File Name : ...716_021.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 14:11:34

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

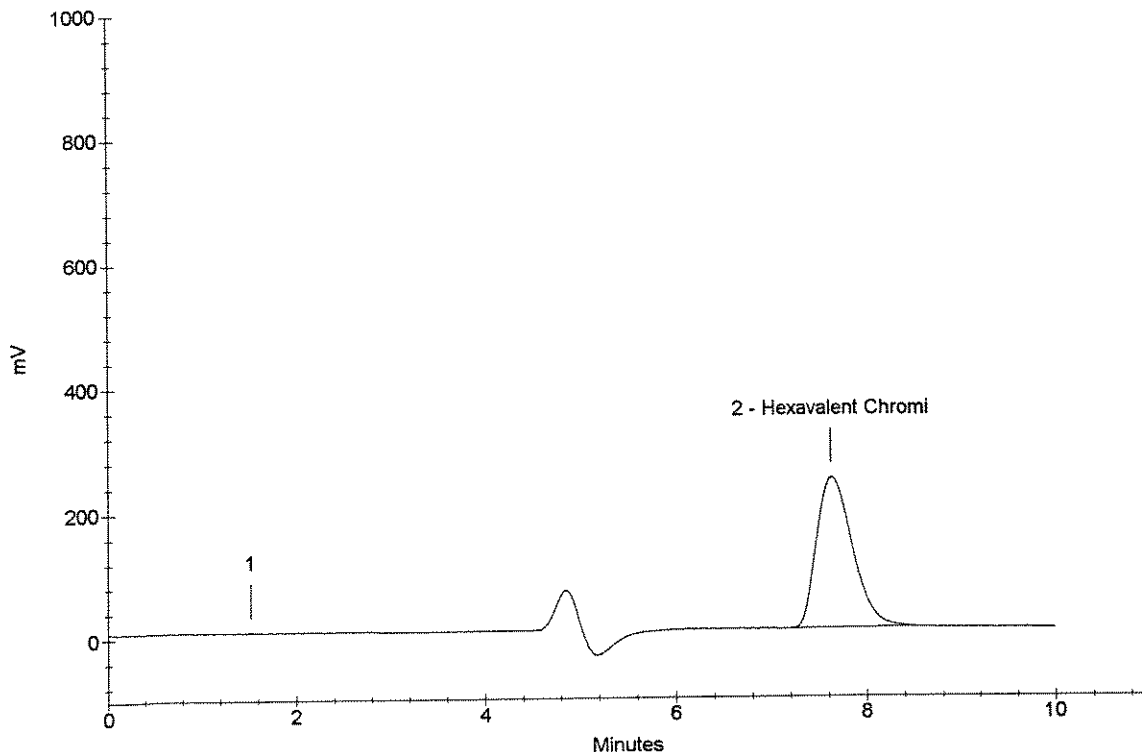
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.64	Hexavalent Chromi <i>OK</i>	1.8760	6240092

W
8/8/08
1112811 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\716_022.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 14:21:59

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

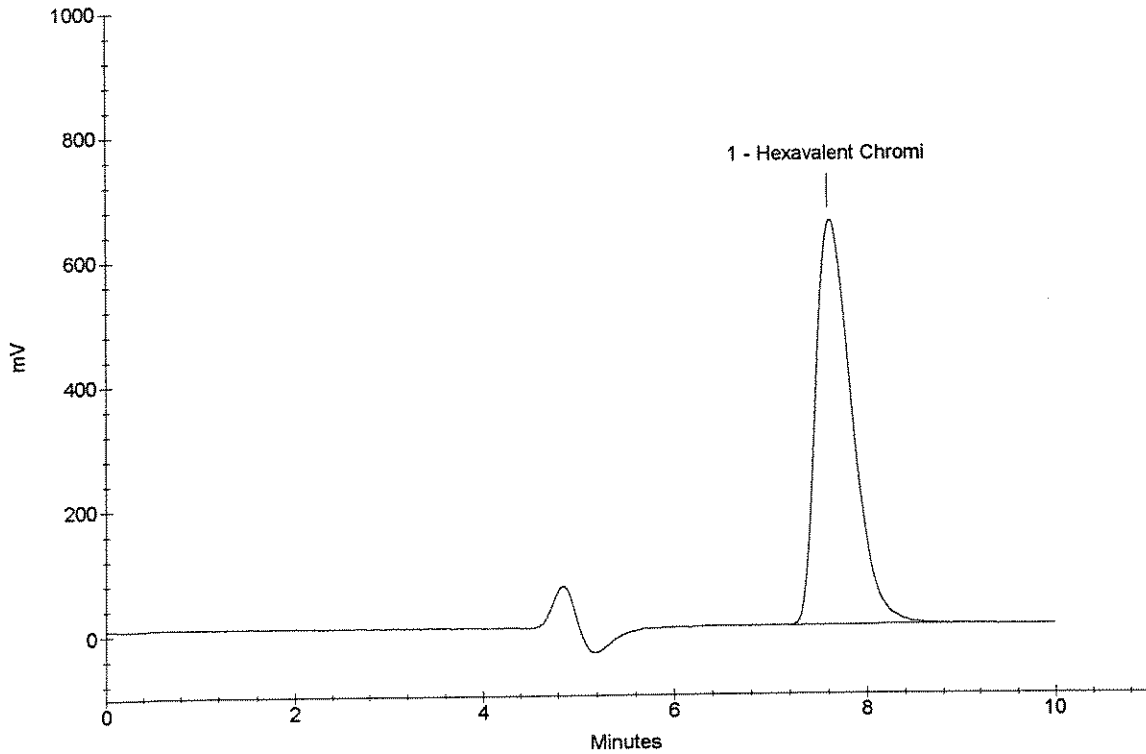
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi <i>OK</i>	0.5047	16774376

CCV
7/16/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\716_023.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 14:32:23

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

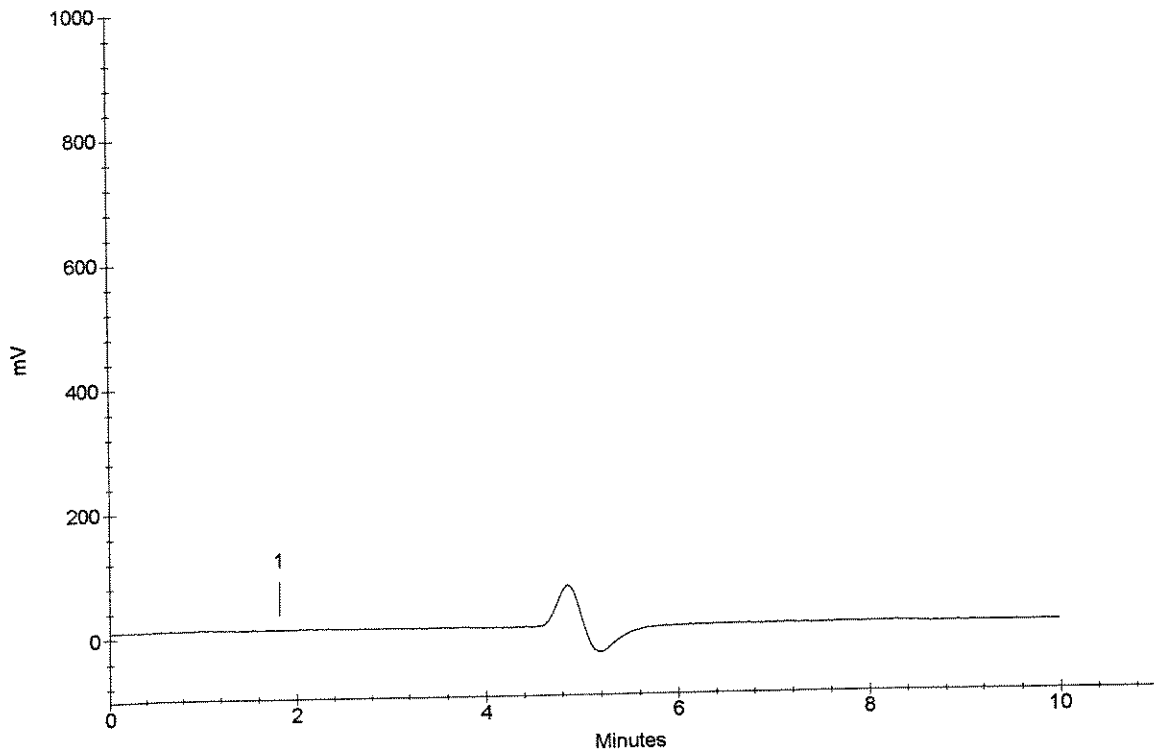
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
CCB
8/8/08
CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112812
Data File Name : ...\\716_024.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 14:42:48

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

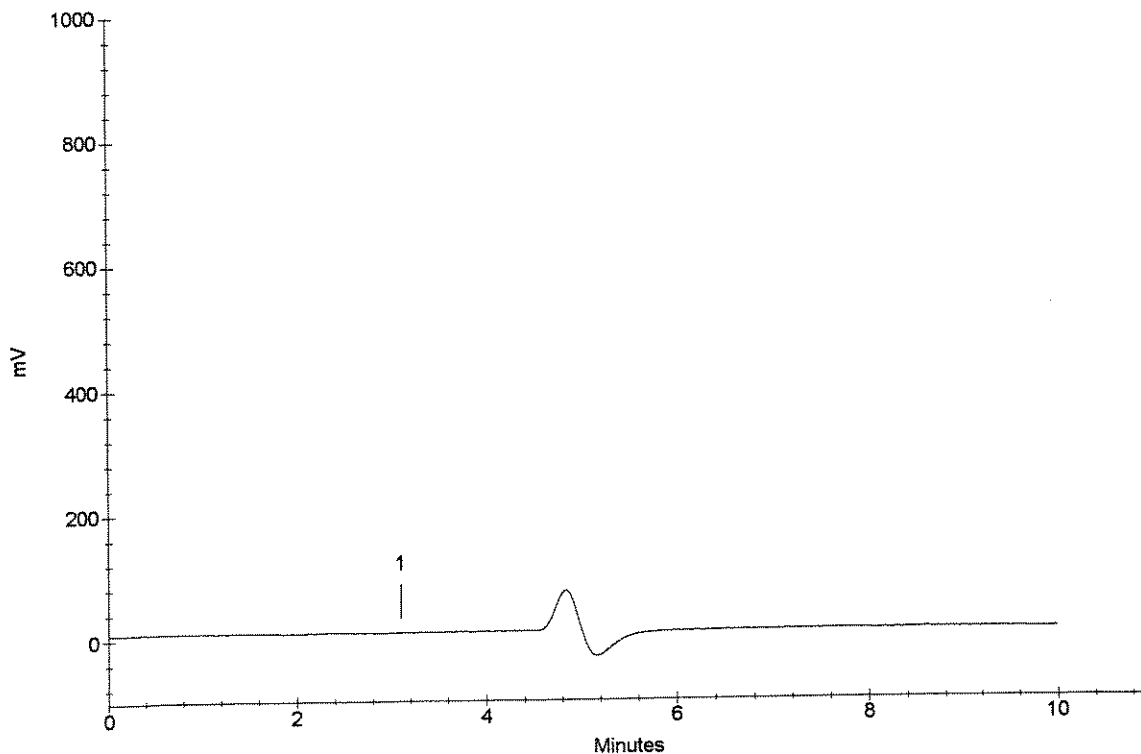
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
7/18/08
1112812



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112871
Data File Name : ...\\716_025.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 14:53:13

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

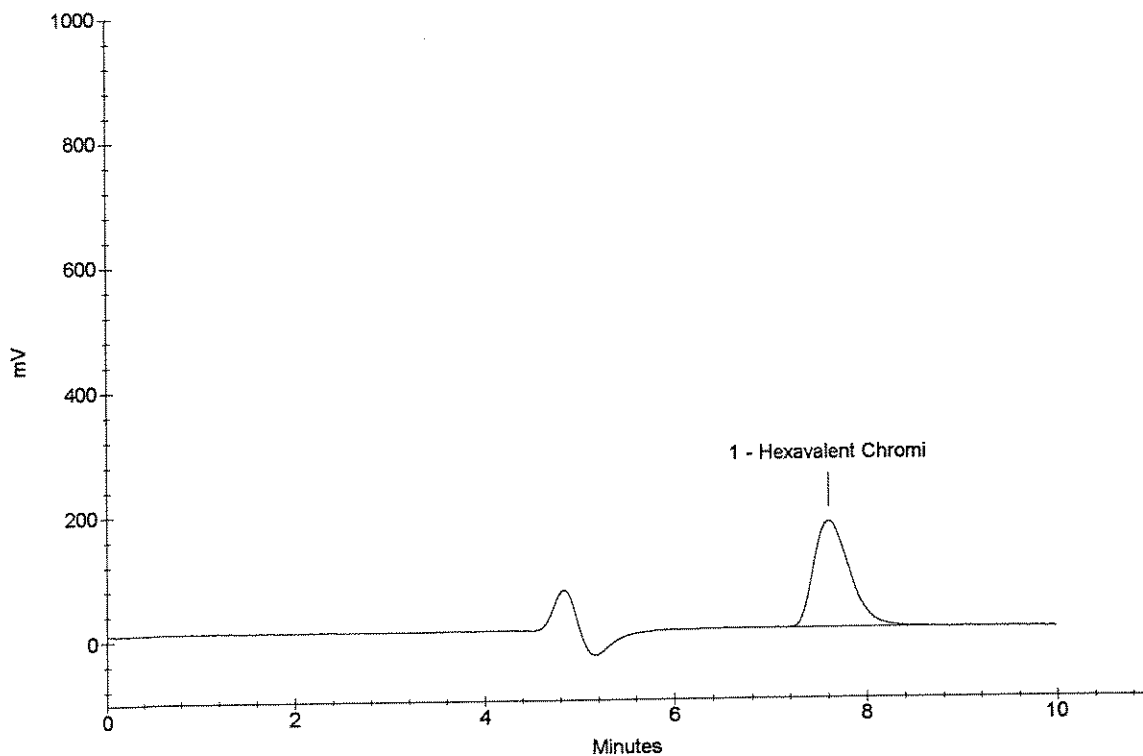
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi	1.3126	4368281

OK
8/8/08
1112871



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112872
Data File Name : ...\\716_026.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 15:03:36

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

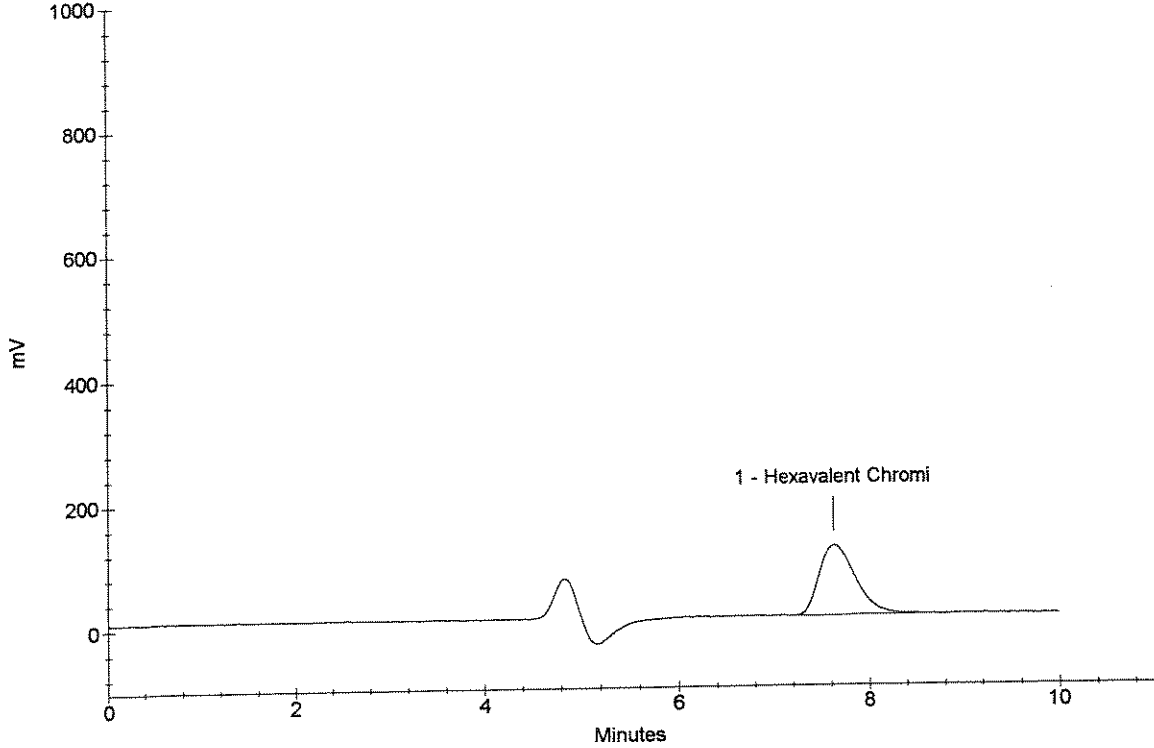
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi	0.8815	2936015

[Handwritten Signature]
1112872



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112874
Data File Name : ...\\716_027.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 15:14:01

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

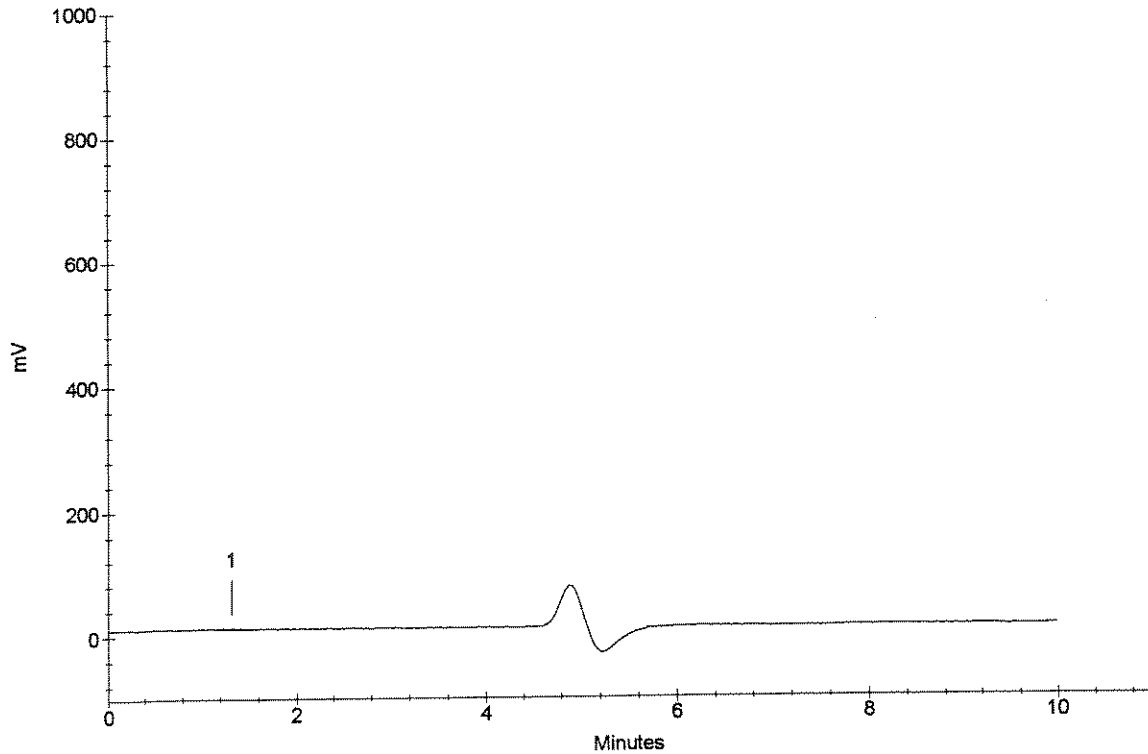
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
7/16/08
1112874



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112874 DUP
Data File Name : ...716_028.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 15:24:26

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

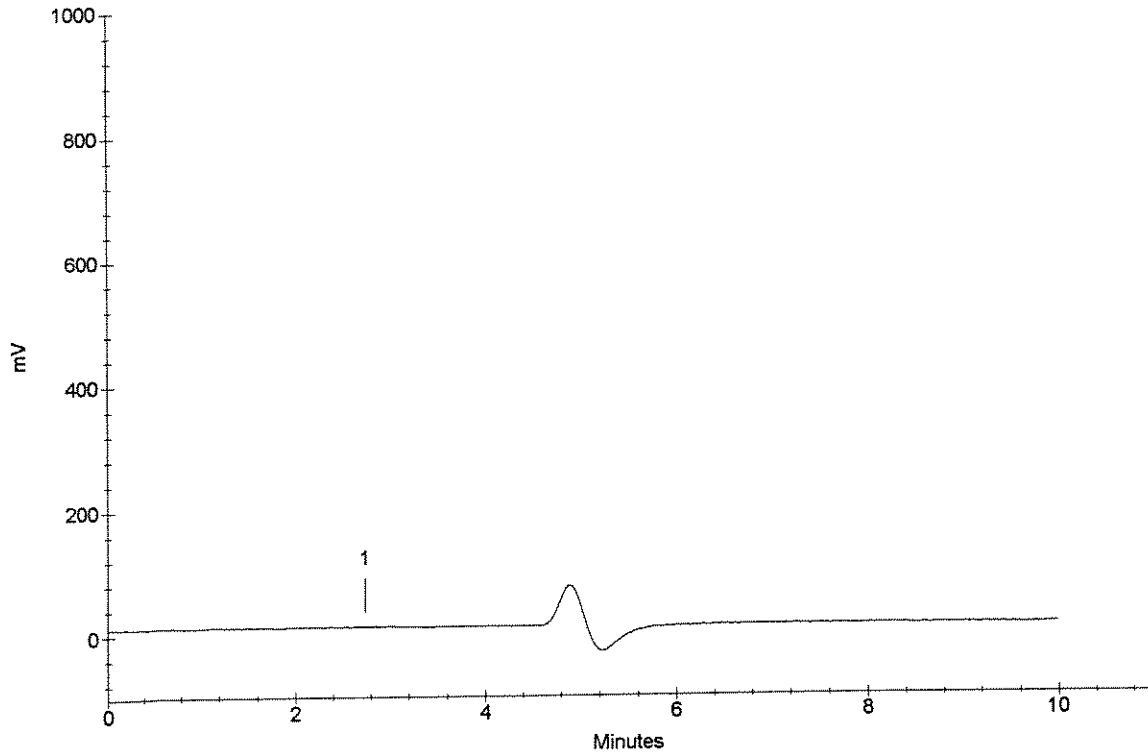
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
7/16/08
1112874 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112874 SPK
Data File Name : ...\\716_029.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 15:34:49

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

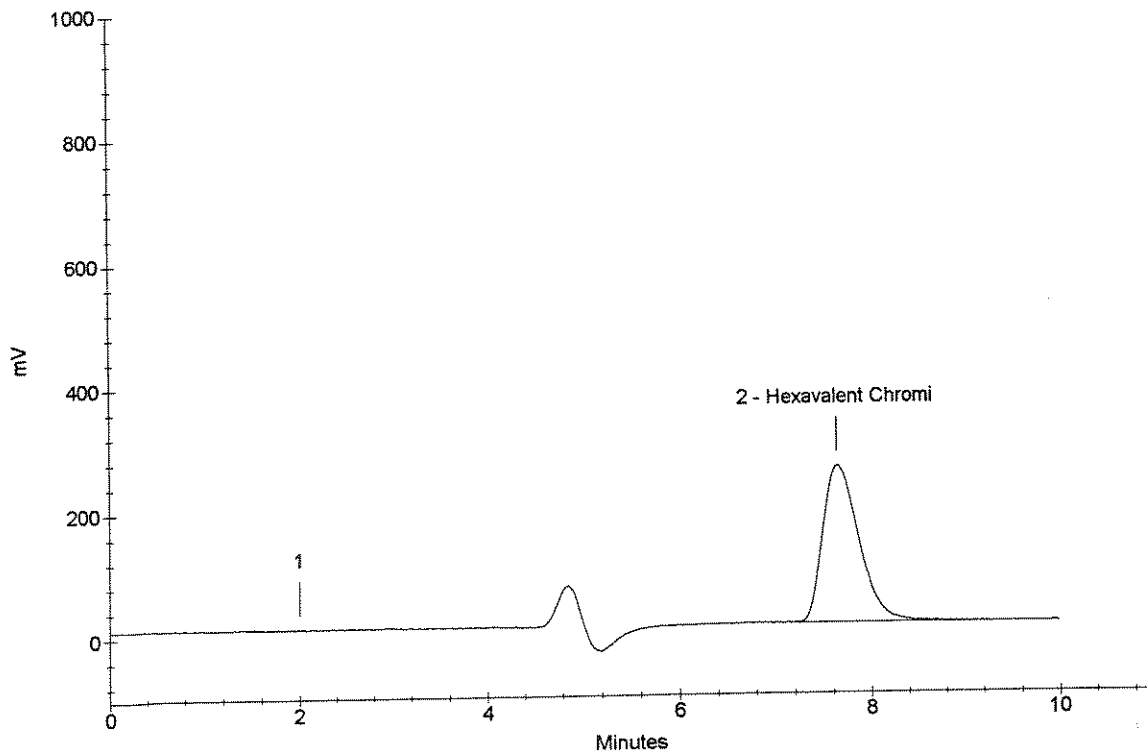
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.66	Hexavalent Chromi <i>OK</i>	1.9800	6585760

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1112874 SPK



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : 1113426
Data File Name : ...716_030.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 15:45:13

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

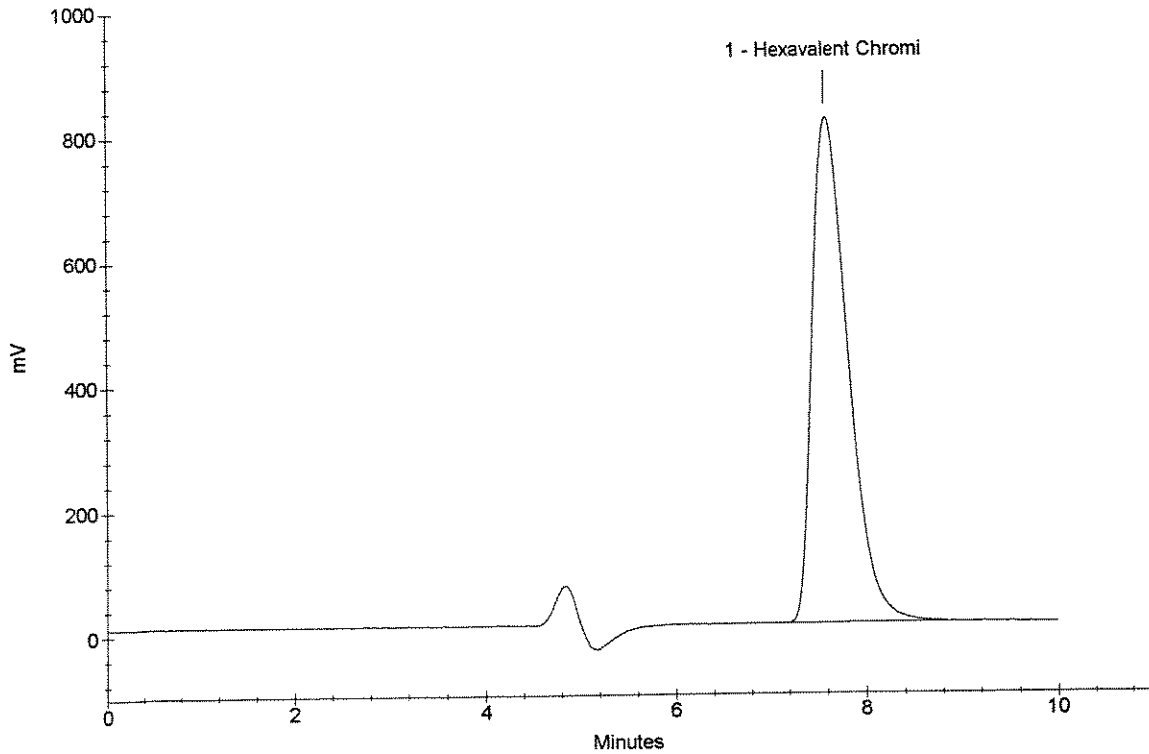
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi <i>OK</i>	6.3353	21055408

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1113426



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : 1113427
Data File Name : ...716_031.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 15:55:38

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

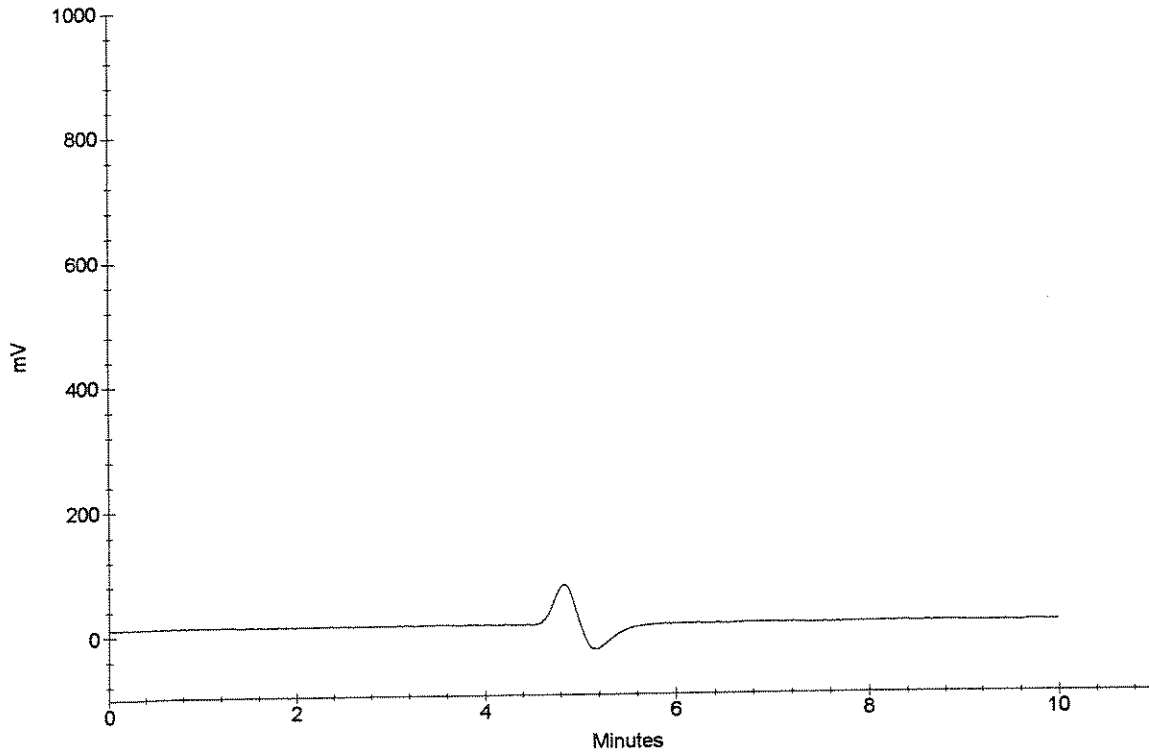
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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Handwritten signature
7/16/08
1113427



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113428
Data File Name : ...\\716_032.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 16:06:02

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

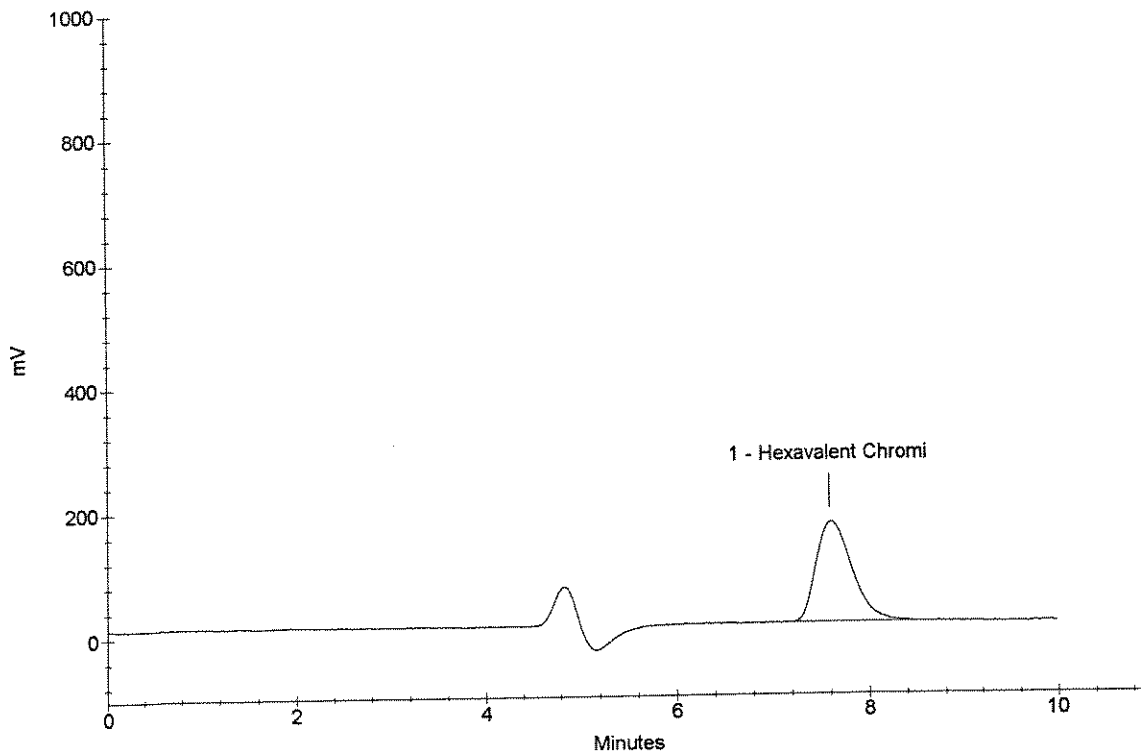
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.60	Hexavalent Chromi	1.2333	4104868

OK
8/8/08
1113428



Ion Chromatography Analytical Report
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Sample Name : 1113429
Data File Name : ...716_033.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 16:16:26

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

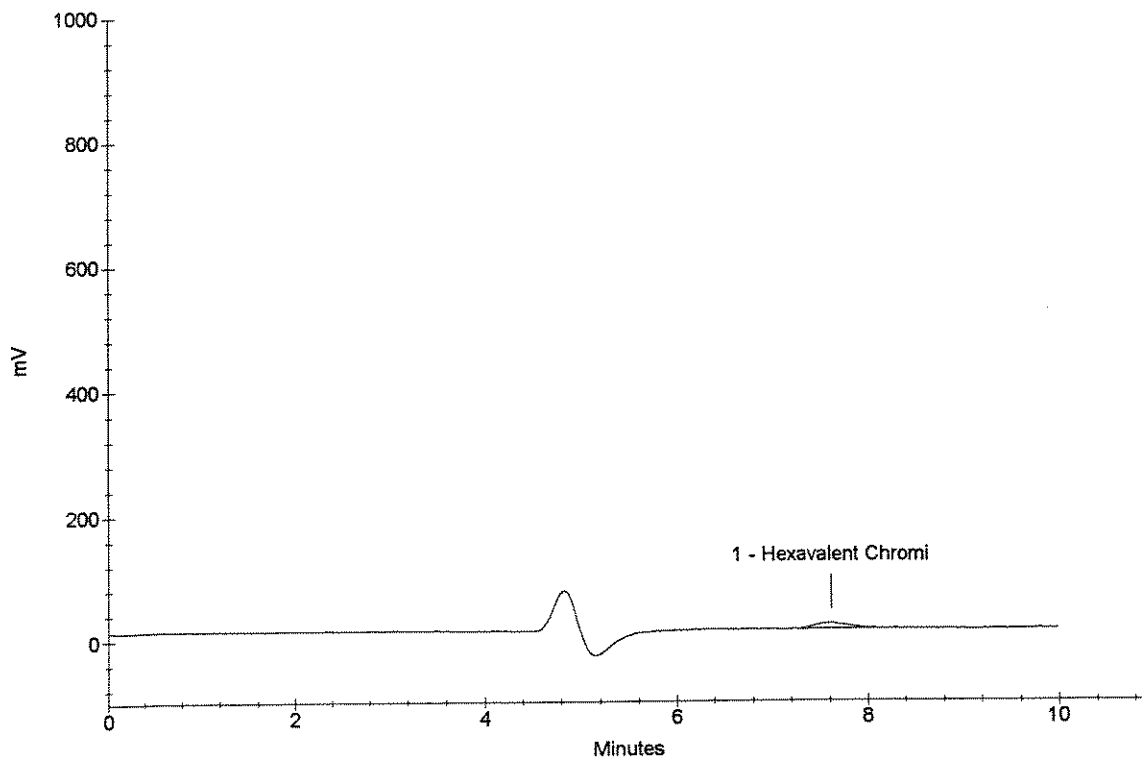
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi	0.0655	225107

OK
7/16/08
1113429



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113430
Data File Name : ...716_034.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 16:26:49

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

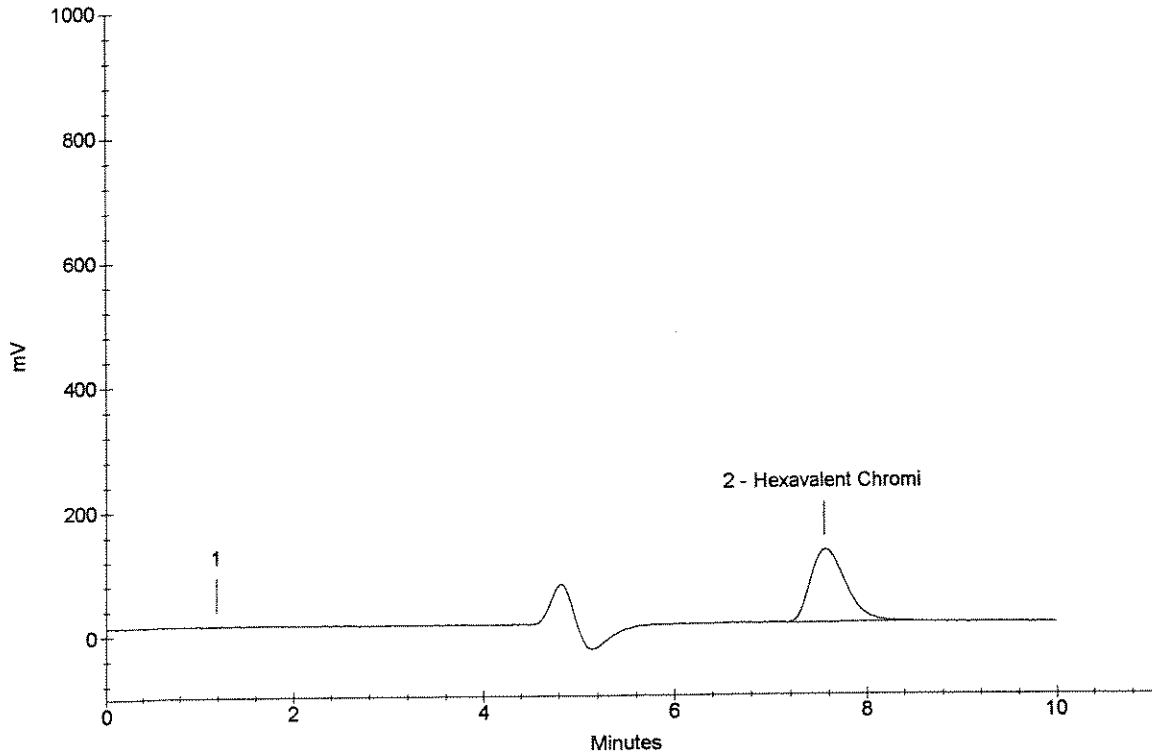
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.56	Hexavalent Chromi	0.8979	2990639

OK
7/16/08
1113430



Ion Chromatography Analytical Report
Columbia Analytical Services
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Sample Name : 1113695
Data File Name : ...\\716_035.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 16:37:14

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

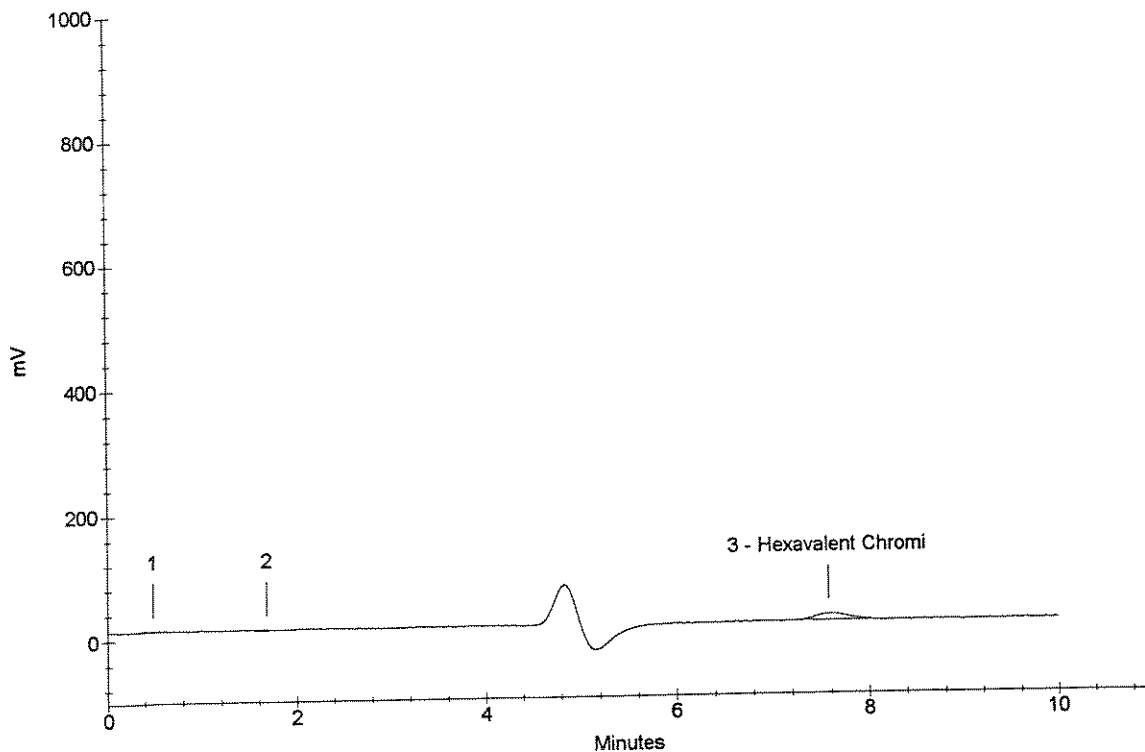
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
3	7.58	Hexavalent Chromi	0.0680	233482

OK
08/18/08

1113695



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\716_036.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 16:47:38

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

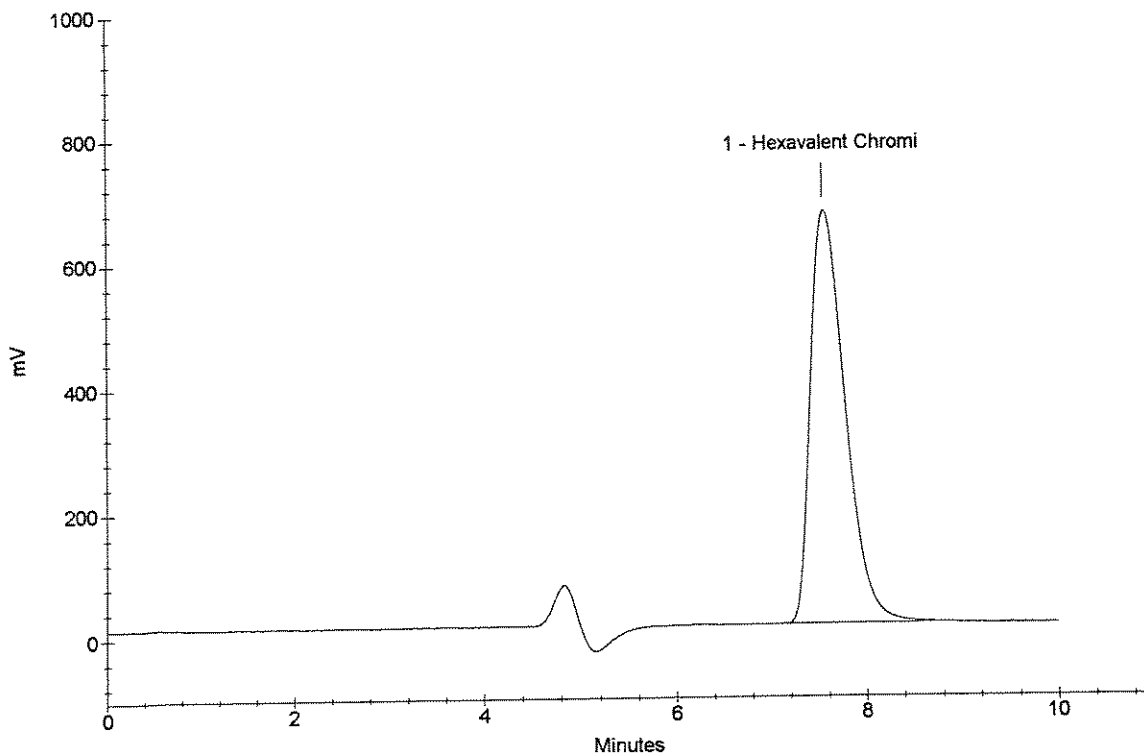
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi	0.5040	16750995

OK
[Signature]
CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\716_037.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 16:58:03

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

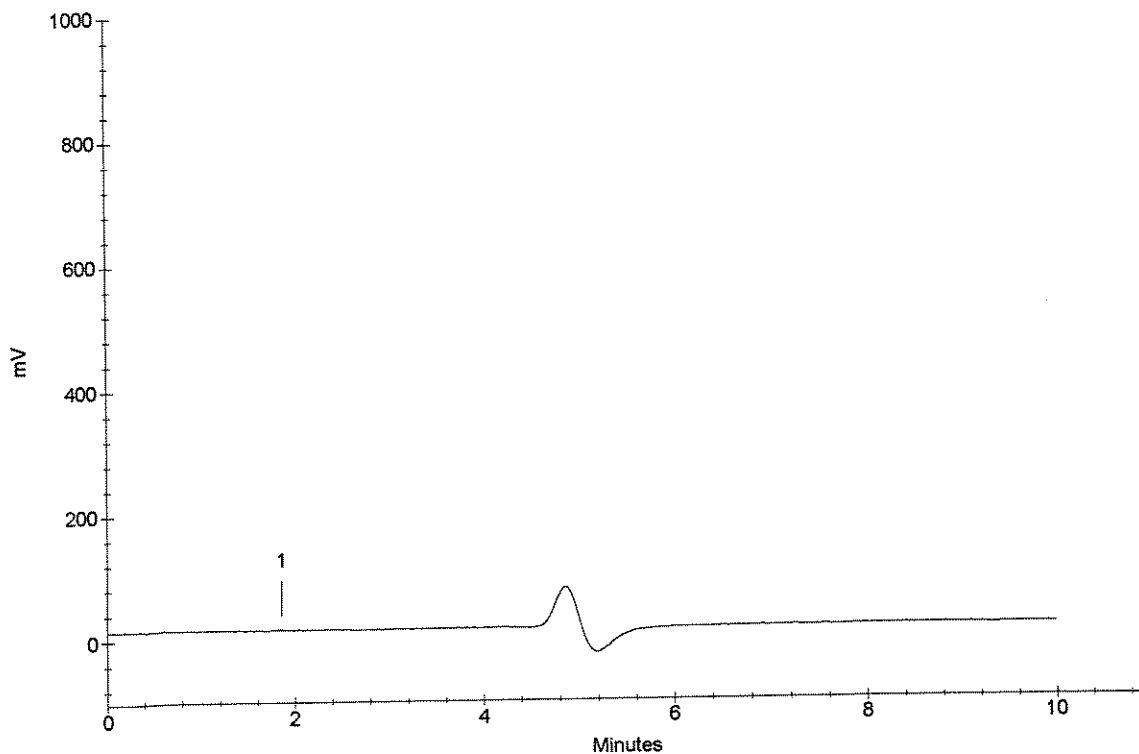
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
7/17/08
CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\\716_038.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 17:08:27

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

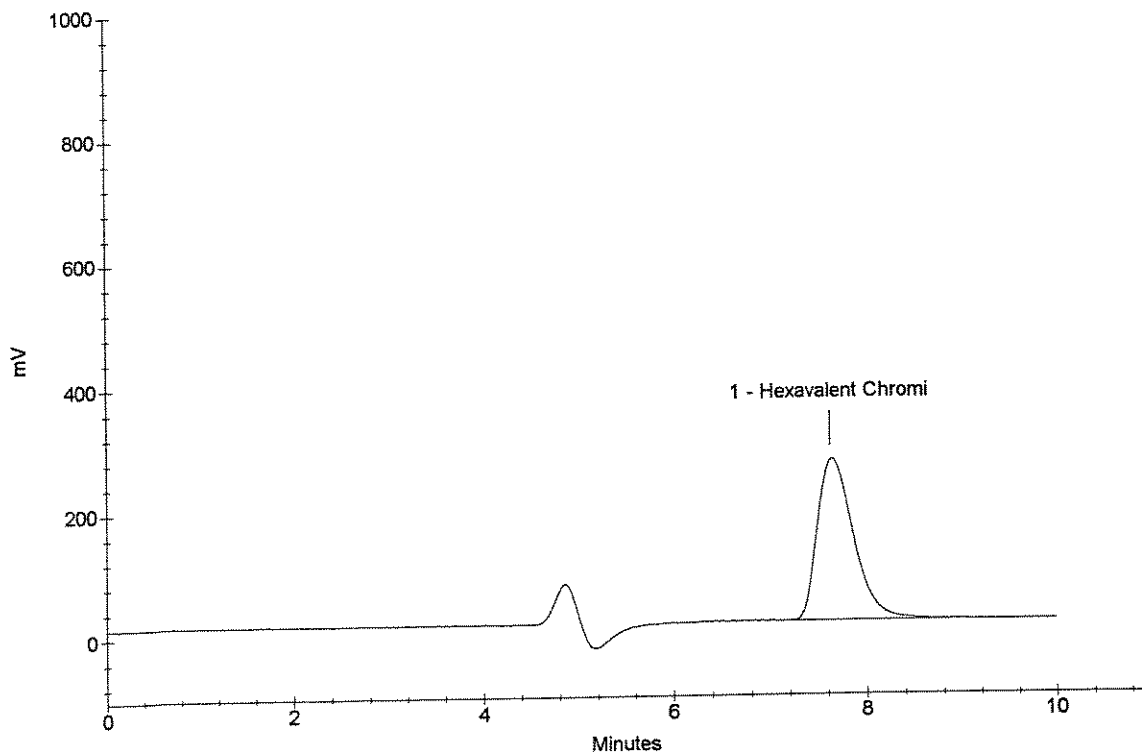
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi	0.2004	6665277

OK
WTA
8/4/08
LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113696
Data File Name : ...716_039.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 17:18:52

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

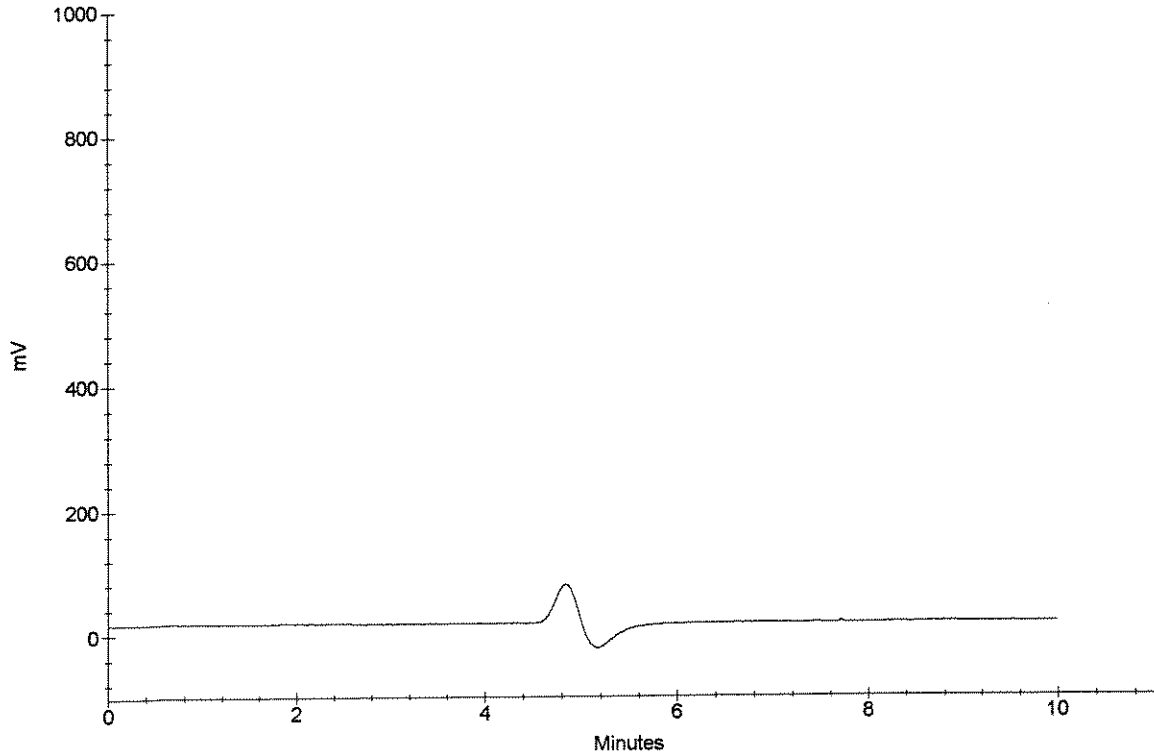
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
7/16/08
1113696



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113697
Data File Name : ...716_040.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 17:29:17

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

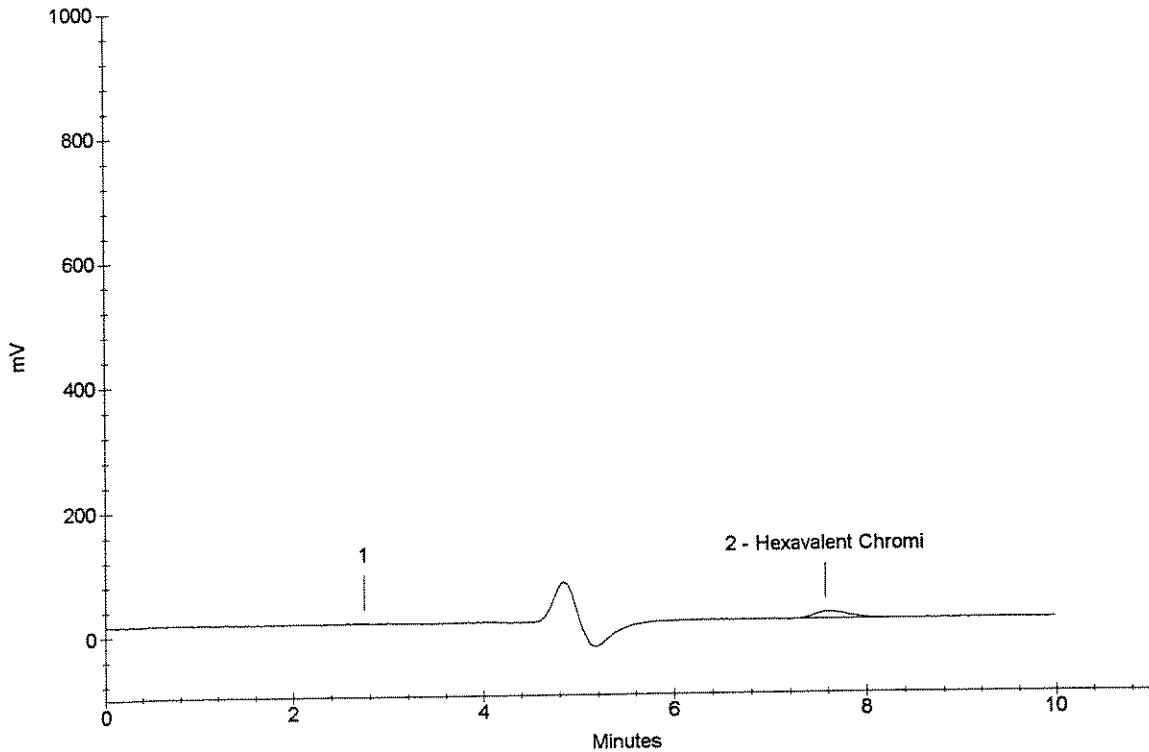
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.58	Hexavalent Chromi	0.0793	271029

OK
4/7/08
1113697



Ion Chromatography Analytical Report
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Sample Name : 1113698
Data File Name : ...716_041.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 17:39:42

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

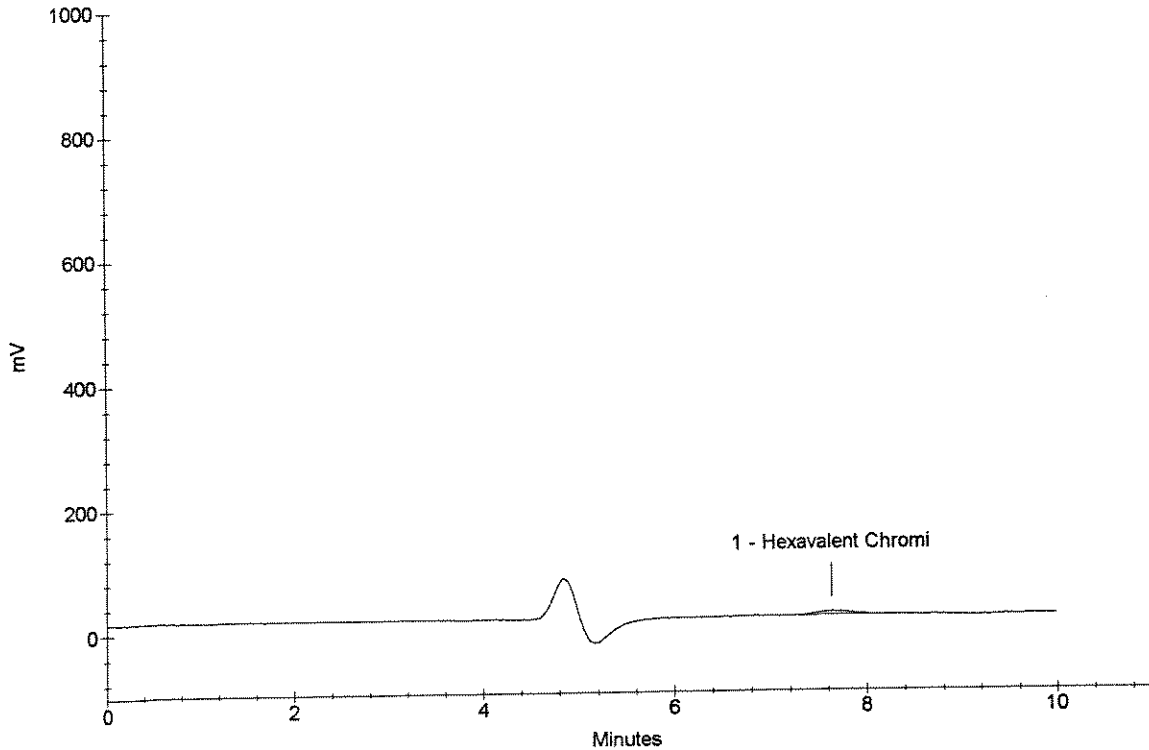
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi	0.0361	127326

OK
[Signature]
7/17/08
1113698



Ion Chromatography Analytical Report
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Sample Name : 1113699
Data File Name : ...716_042.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 17:50:06

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

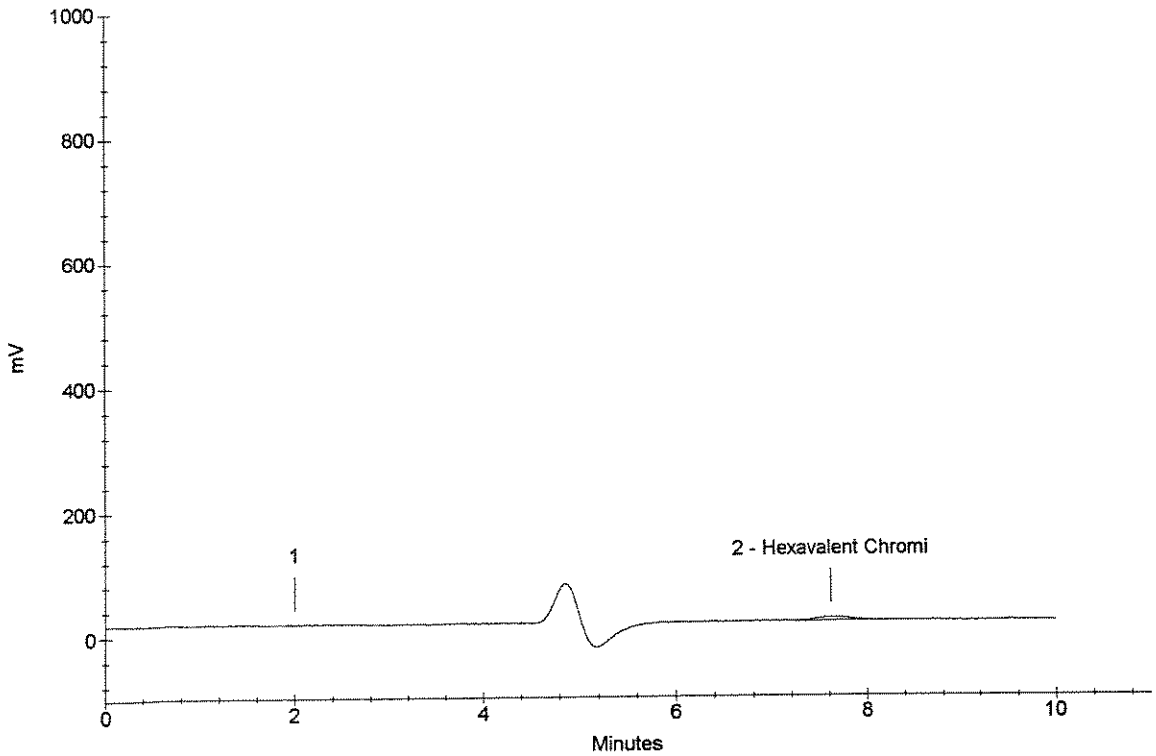
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.62	Hexavalent Chromi	0.0401	140874

OK
6/17/08
1113699



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114419
Data File Name : ...716_043.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 18:00:31

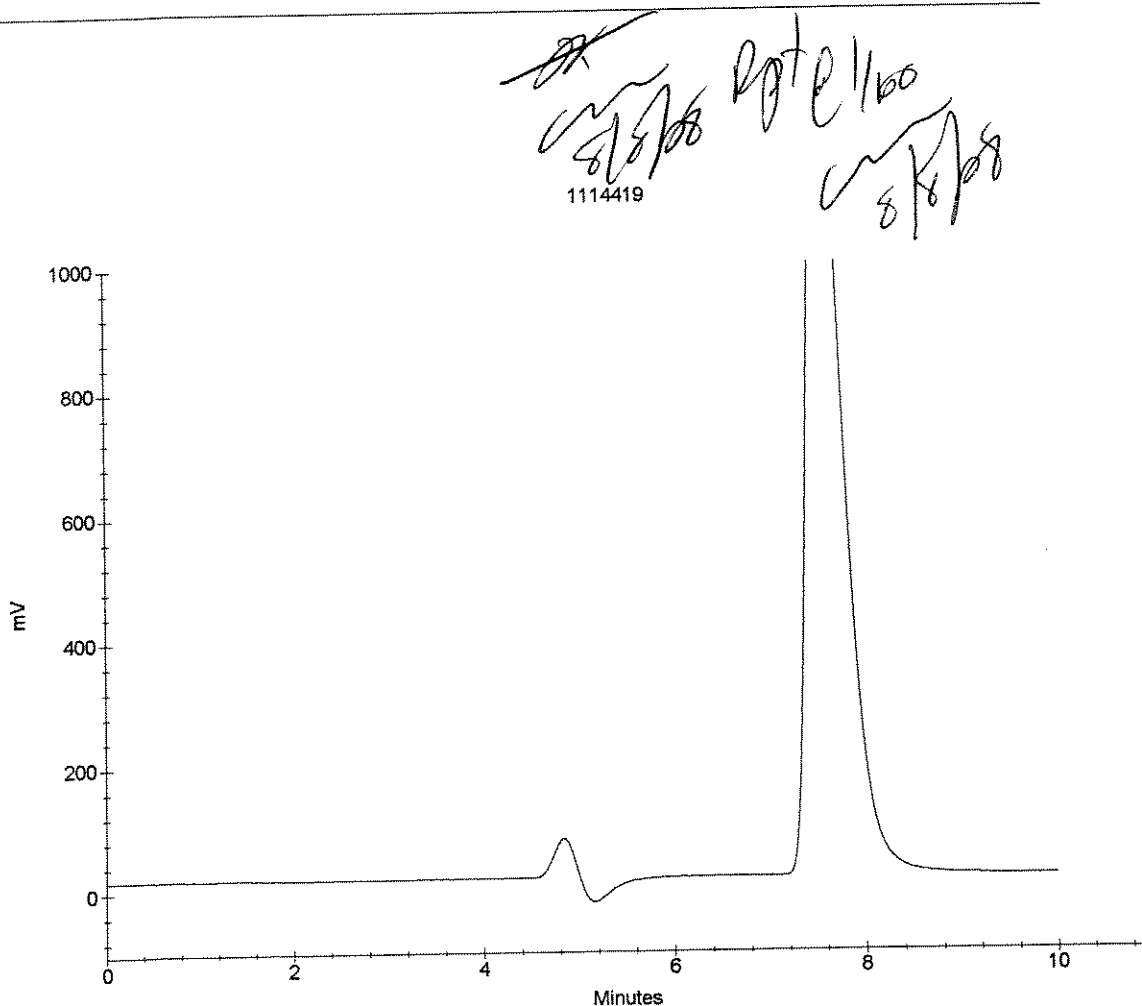
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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Ion Chromatography Analytical Report
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Sample Name : 1114420
Data File Name : ...716_044.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 18:10:52

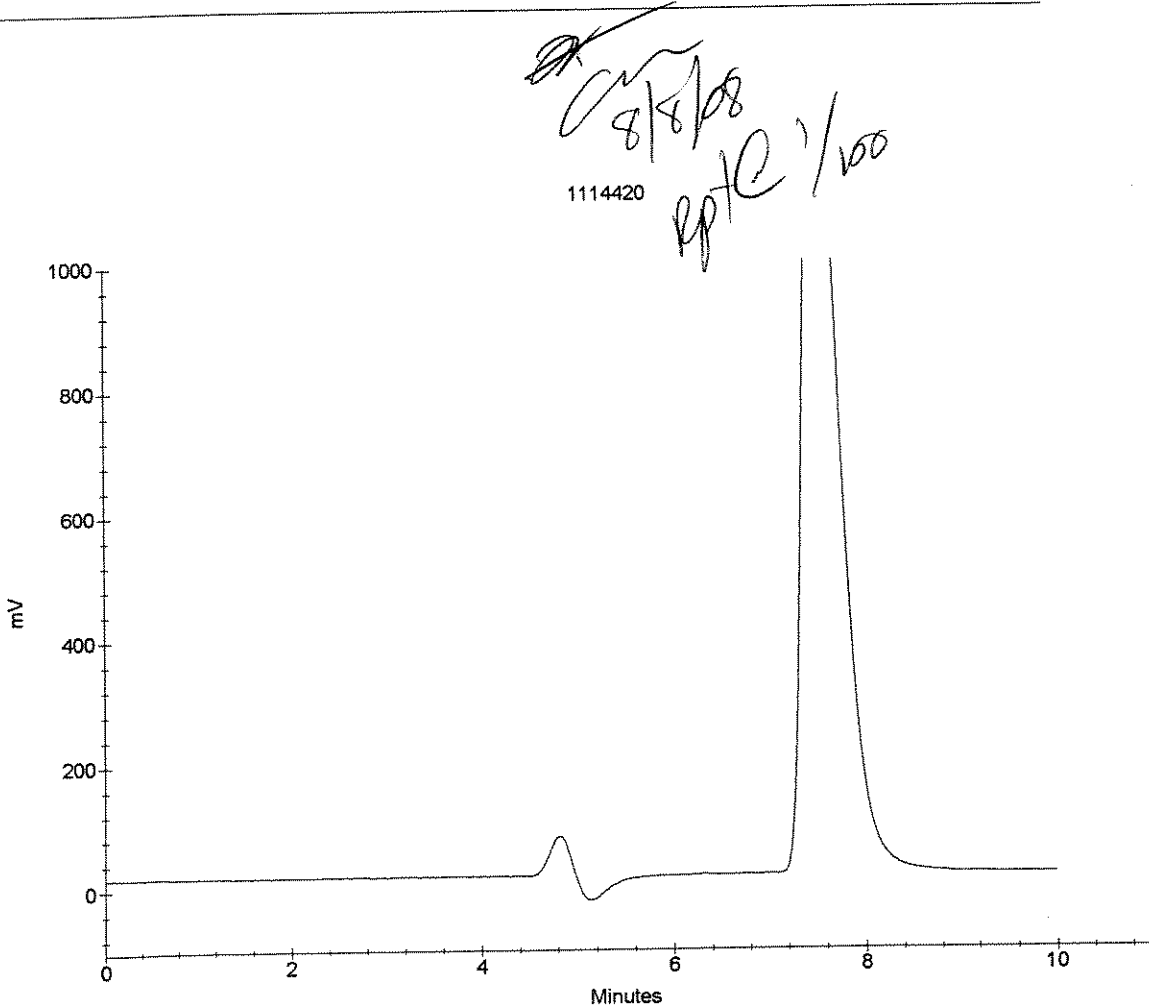
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114421
Data File Name : ...\\716_045.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 18:21:11

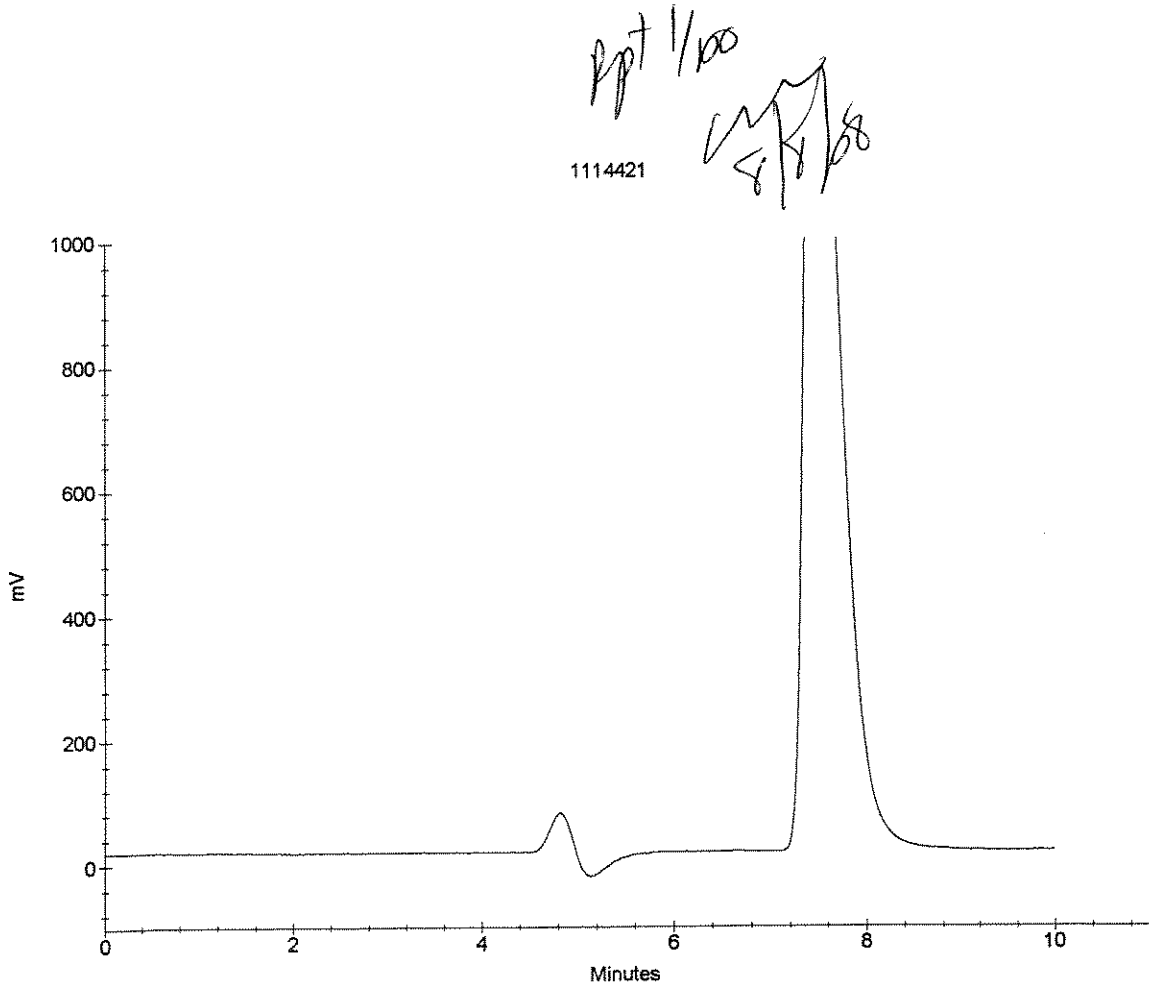
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114421 DUP
Data File Name : ...716_046.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 18:31:36

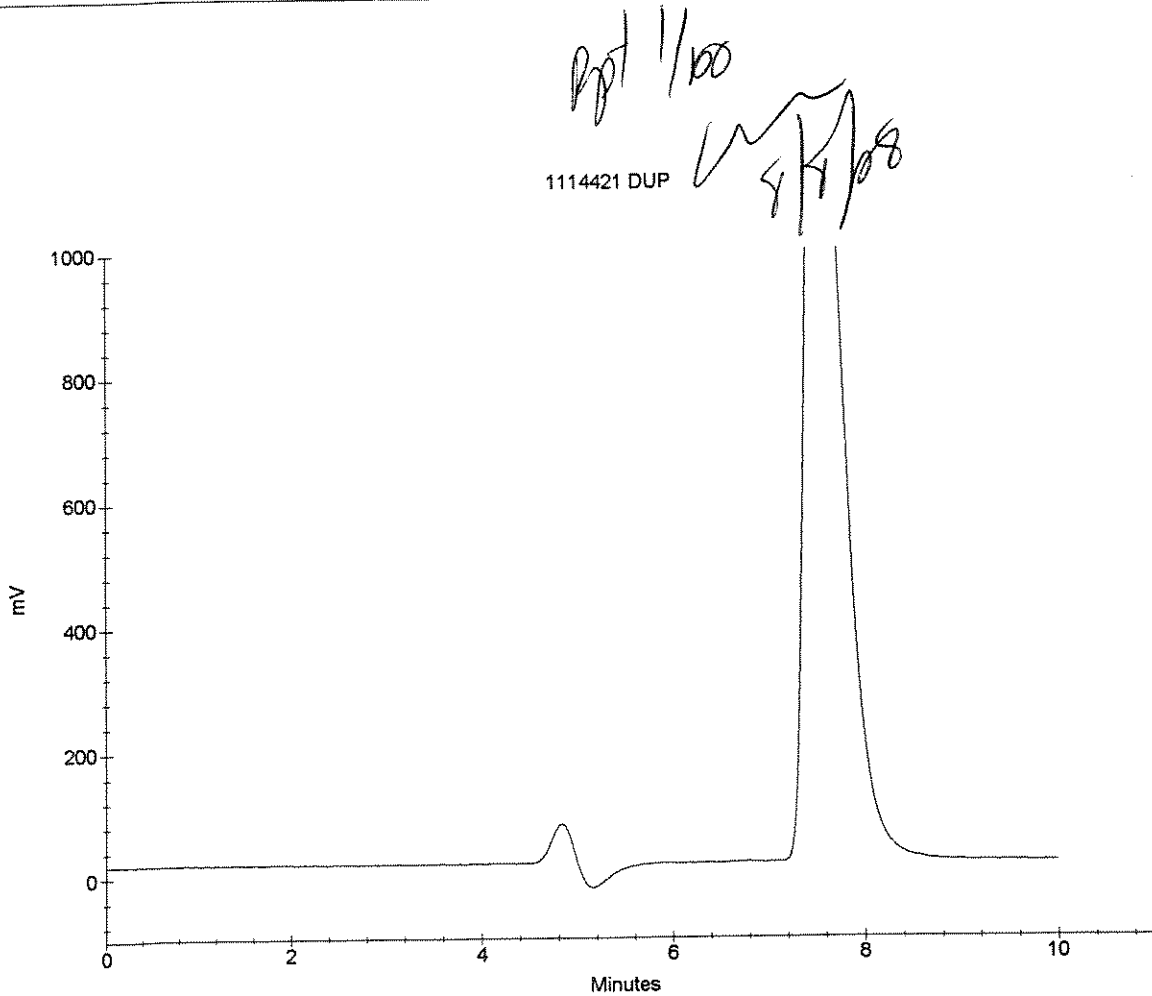
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114421 SPK
Data File Name : ...\\716_047.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 18:42:00

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

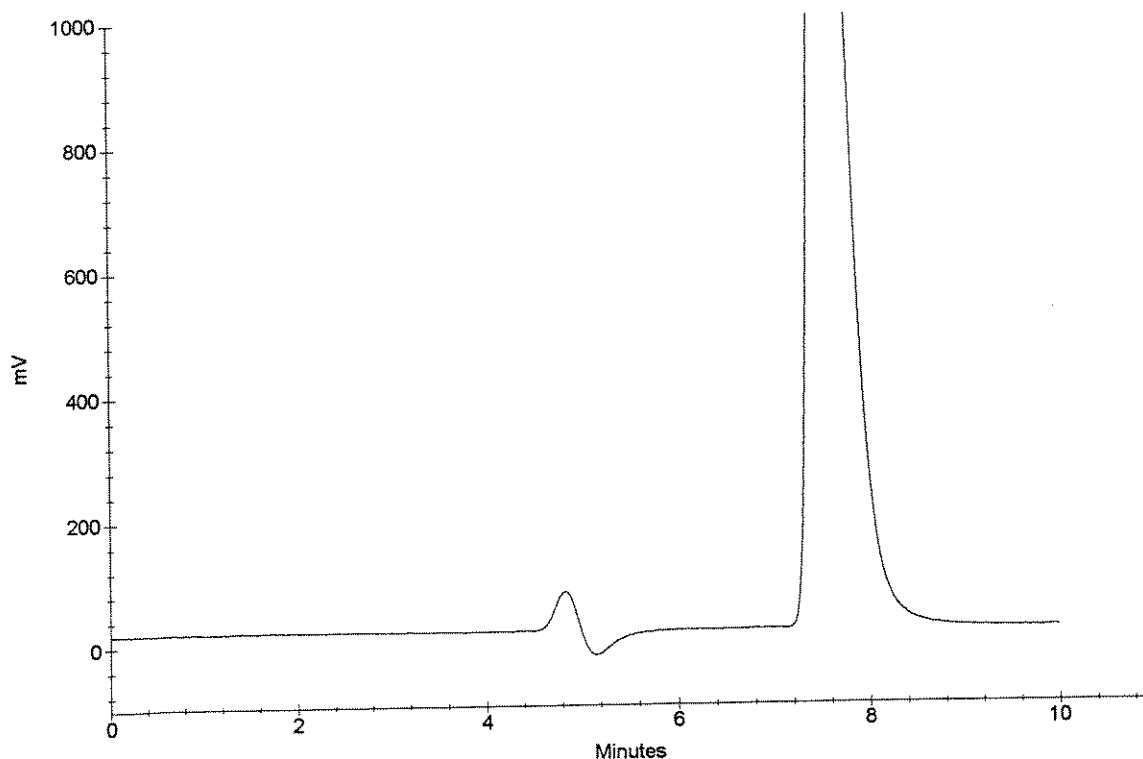
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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ppt 1/100
CS 8/8/08
1114421 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114756
Data File Name : ...\\716_048.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 18:52:25

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

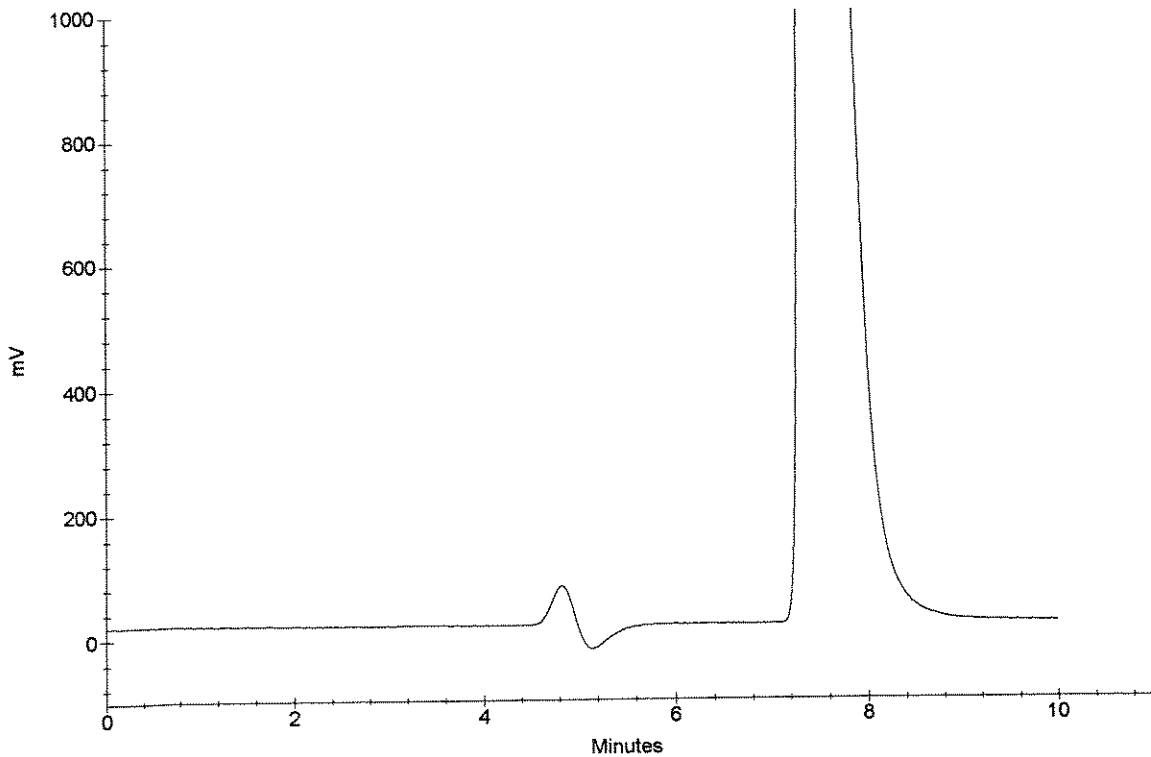
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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1/100
cmg
7/18/08

1114756



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114758
Data File Name : ...716_049.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 19:02:49

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

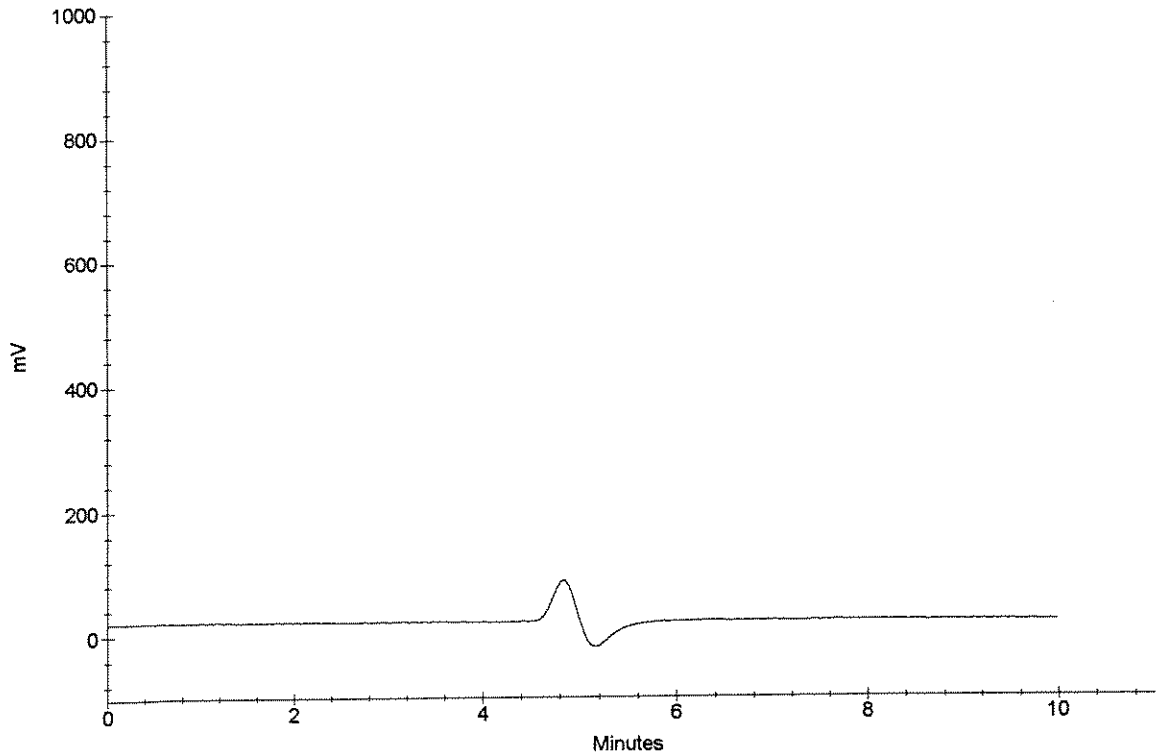
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
1114758
8/8/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115782
Data File Name : ...\\716_050.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 19:13:13

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

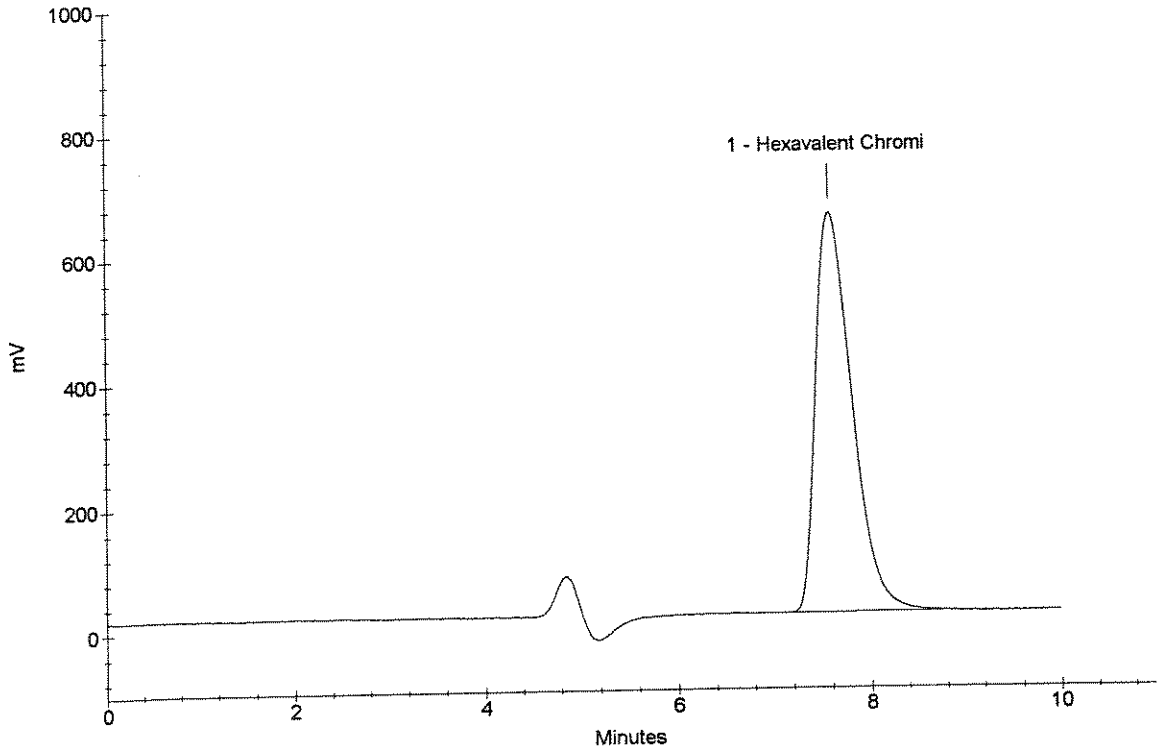
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi <i>OK</i>	4.9825	16561118

CMY
8/6/08
1115782



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\716_051.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 19:23:37

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

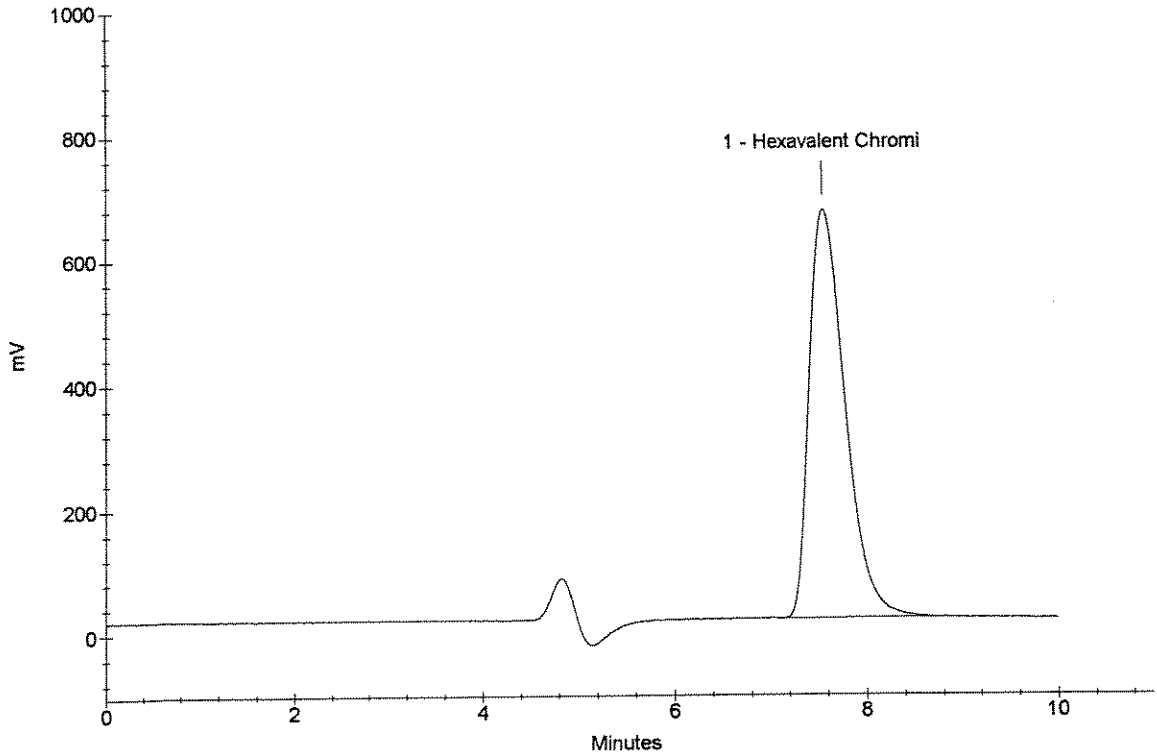
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi	0.5068	16844779

Handwritten signature
7/16/08
CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\716_052.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 19:34:02

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

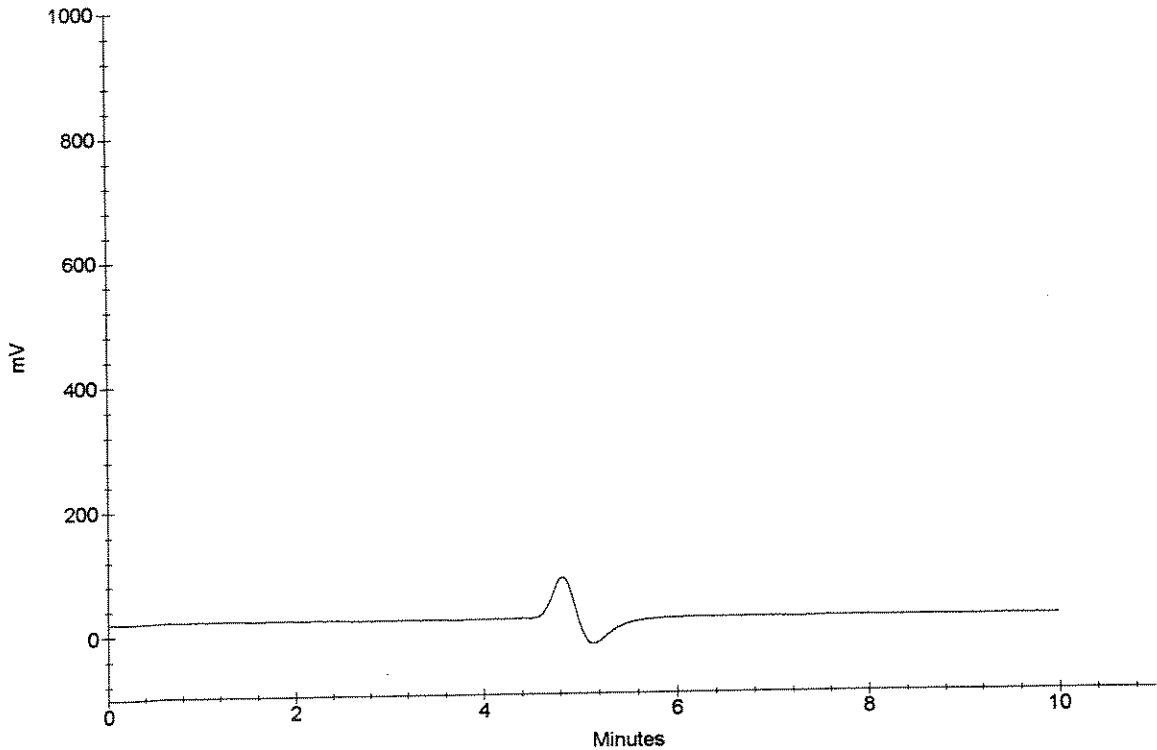
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
8/8/08
CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115783
Data File Name : ...\\716_053.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 19:44:27

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

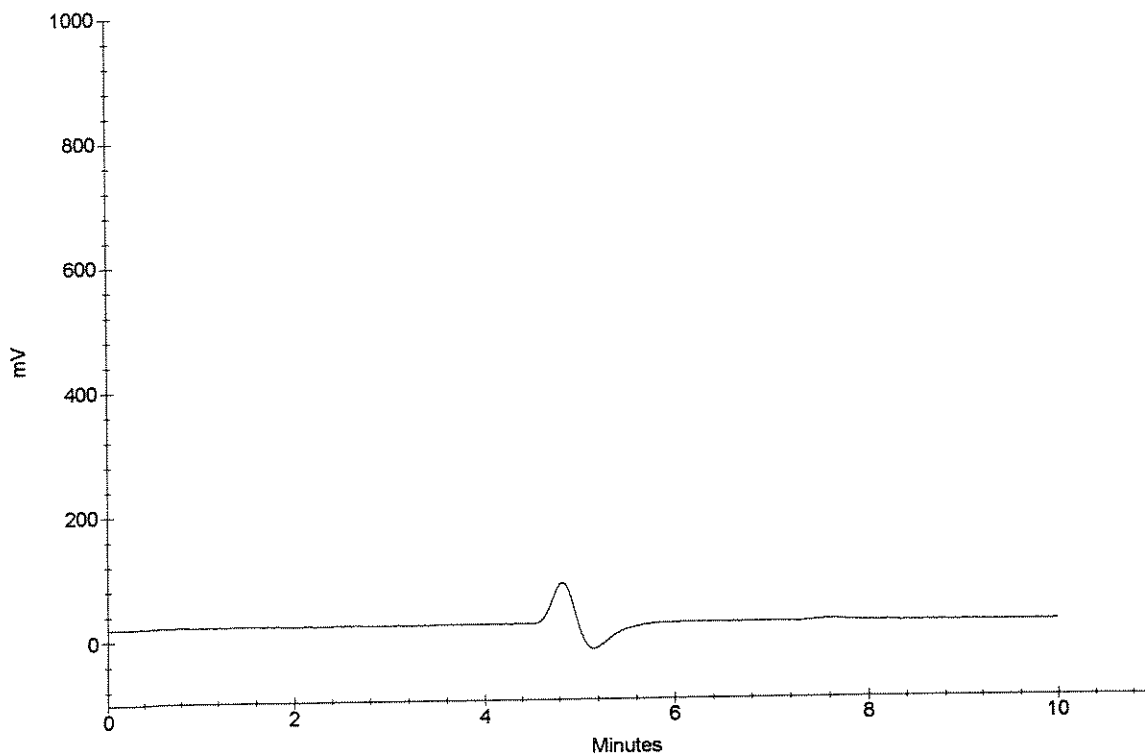
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
07/16/08
1115783



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115784
Data File Name : ...716_054.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 19:54:50

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

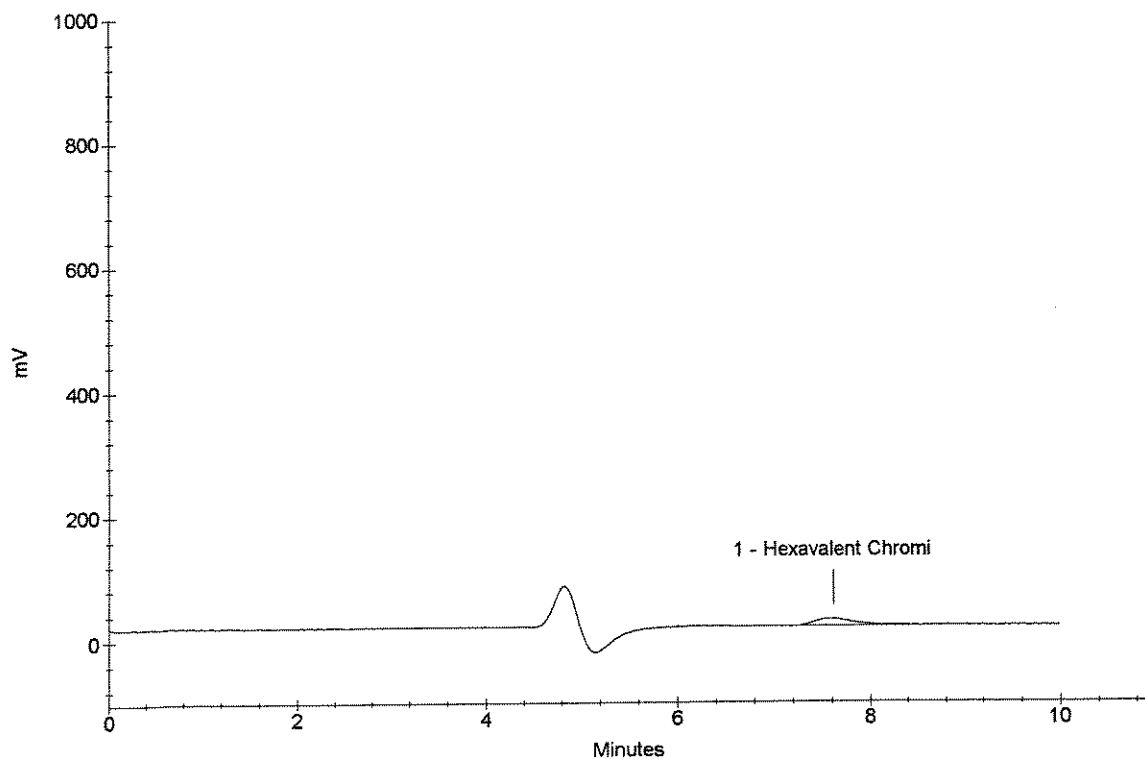
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi	0.0907	308959

DK
8/8/08
1115784



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115785
Data File Name : ...716_055.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 20:05:15

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

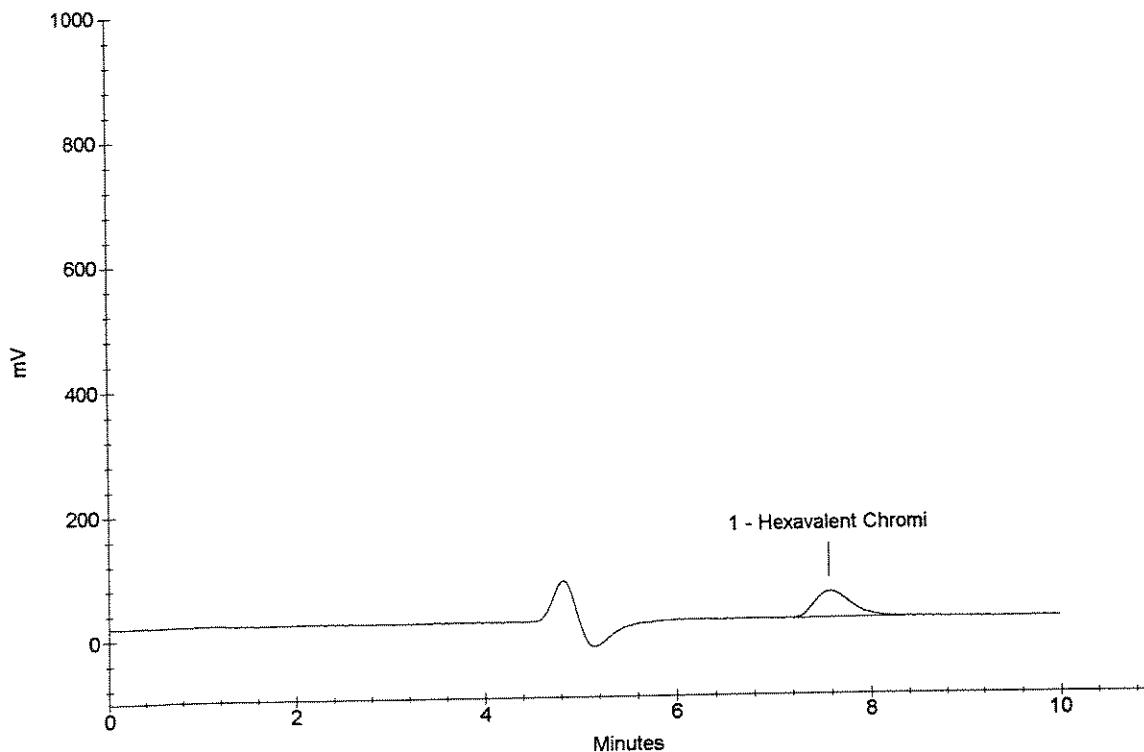
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi	0.3245	1085749

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8/8/08
1115785



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116367
Data File Name : ...\\716_056.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 20:15:40

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

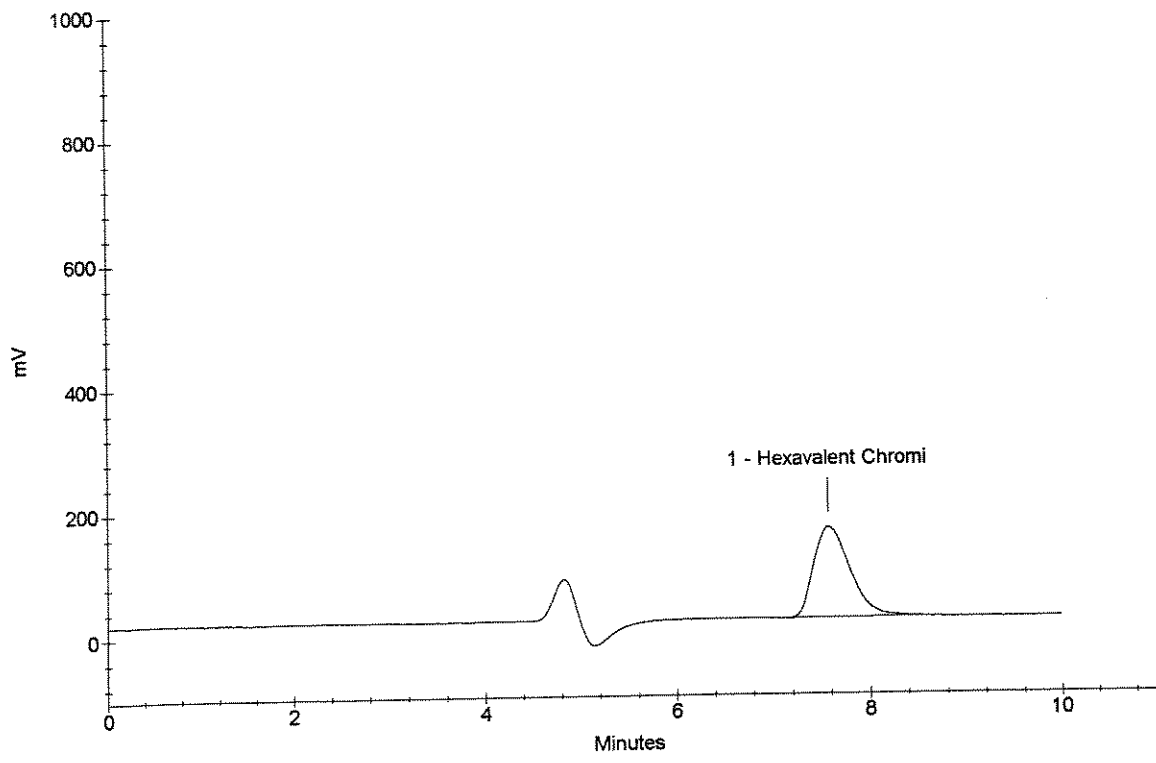
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi	1.1165	3716897

OK
6/18/08
1116367



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116367 DUP
Data File Name : ...\\716_057.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 20:26:04

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

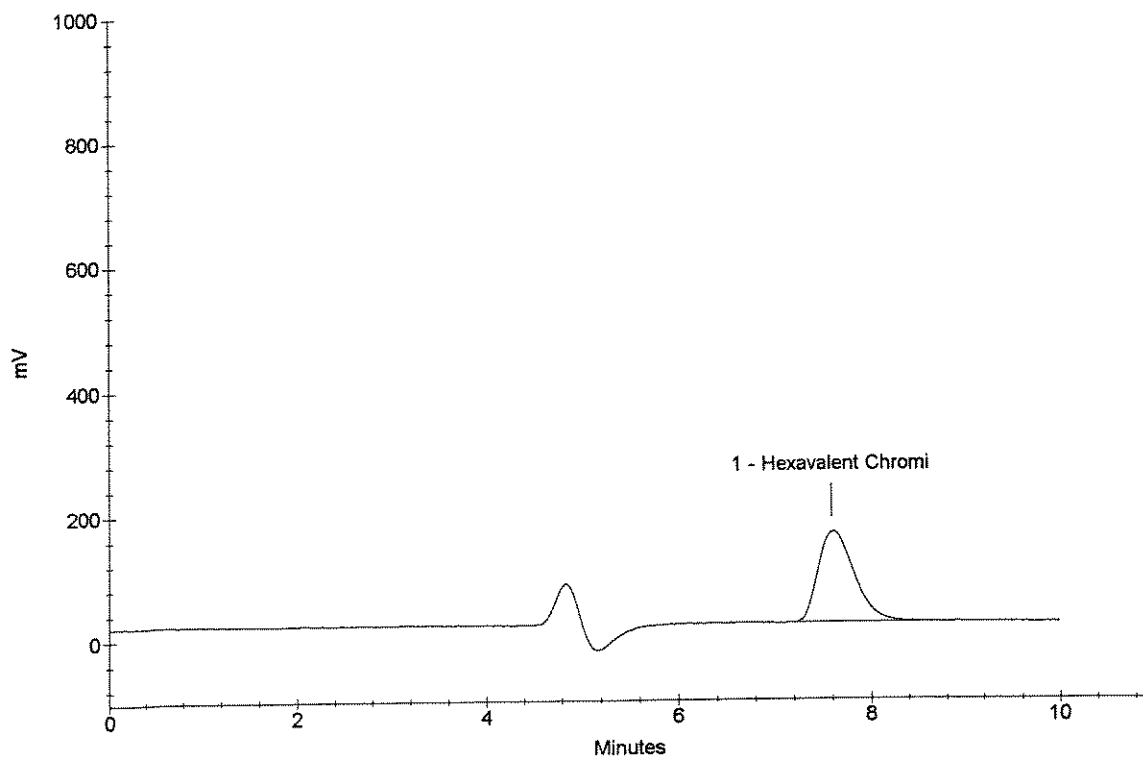
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.60	Hexavalent Chromi	1.1249	3744772

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1116367 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116367 SPK
Data File Name : ...\\716_058.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 20:36:29

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

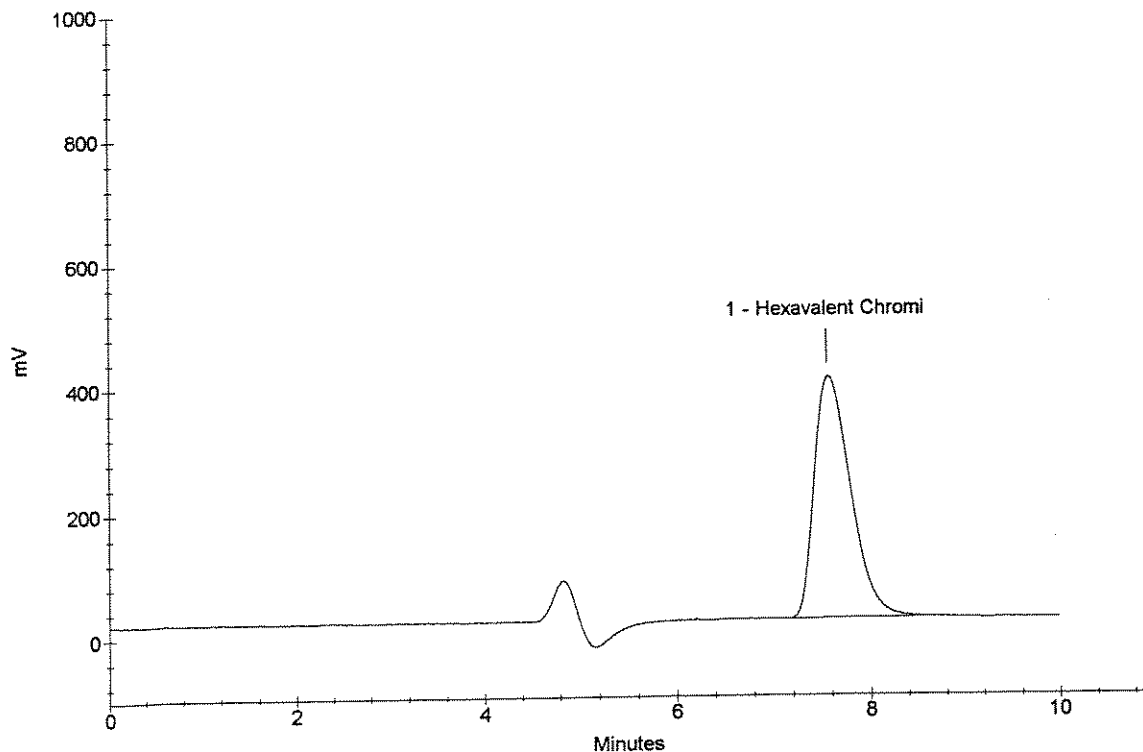
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi	2.9953	9958916

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1116367 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116370
Data File Name : ...\\716_059.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 20:46:54

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

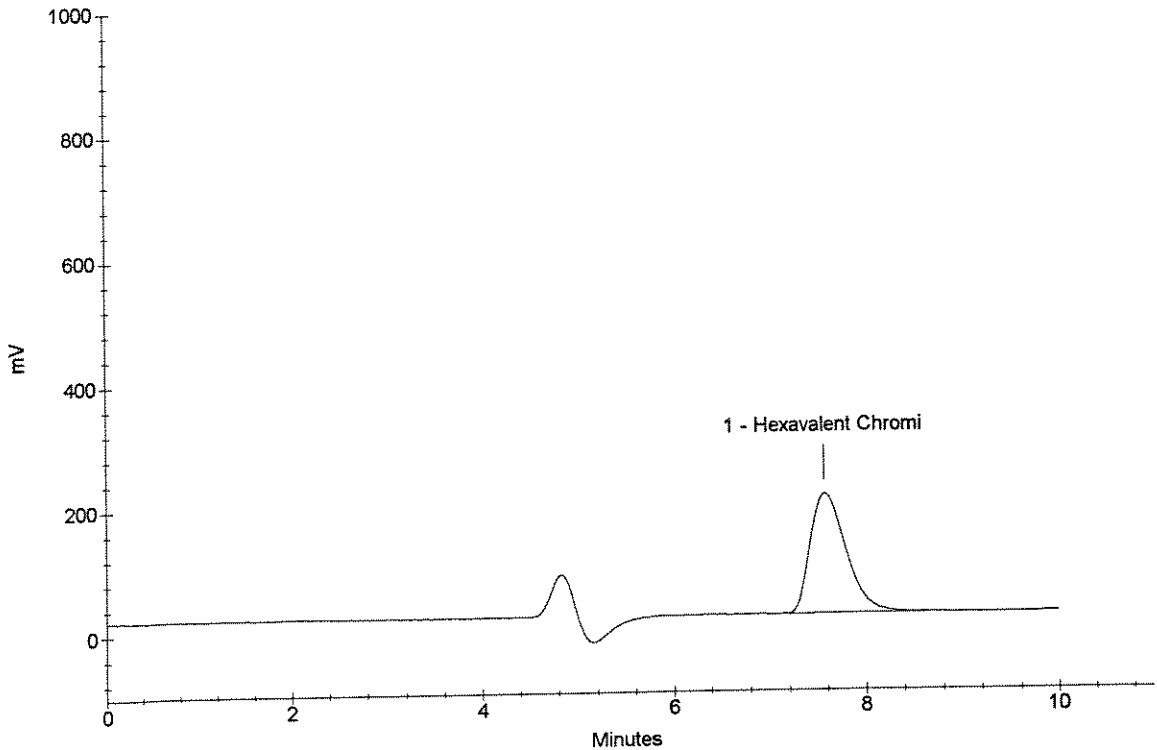
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi <i>OK</i>	1.4818	4930651

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1116370



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116373
Data File Name : ...716_060.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 20:57:18

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

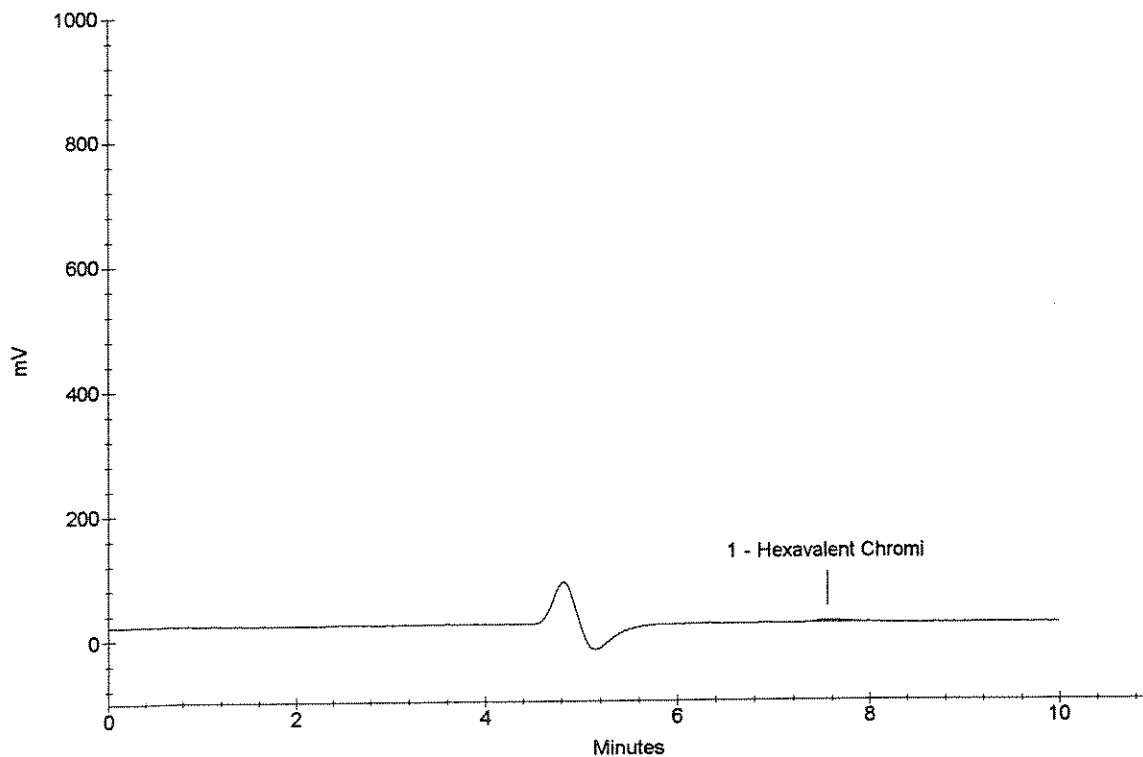
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.56	Hexavalent Chromi	0.0144	55340

OK
7/16/08
1116373



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116921
Data File Name : ...\\716_061.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 21:07:43

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

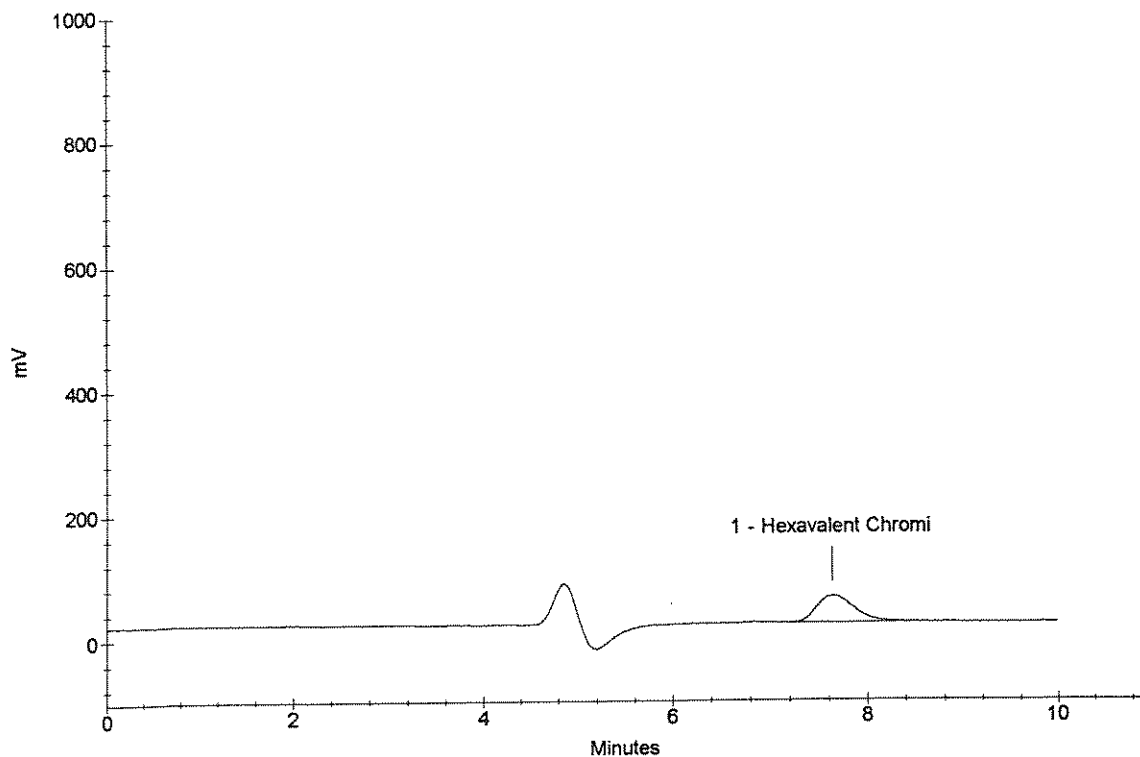
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi	0.3333	1114963

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1116921



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116922
Data File Name : ...716_062.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 21:18:08

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

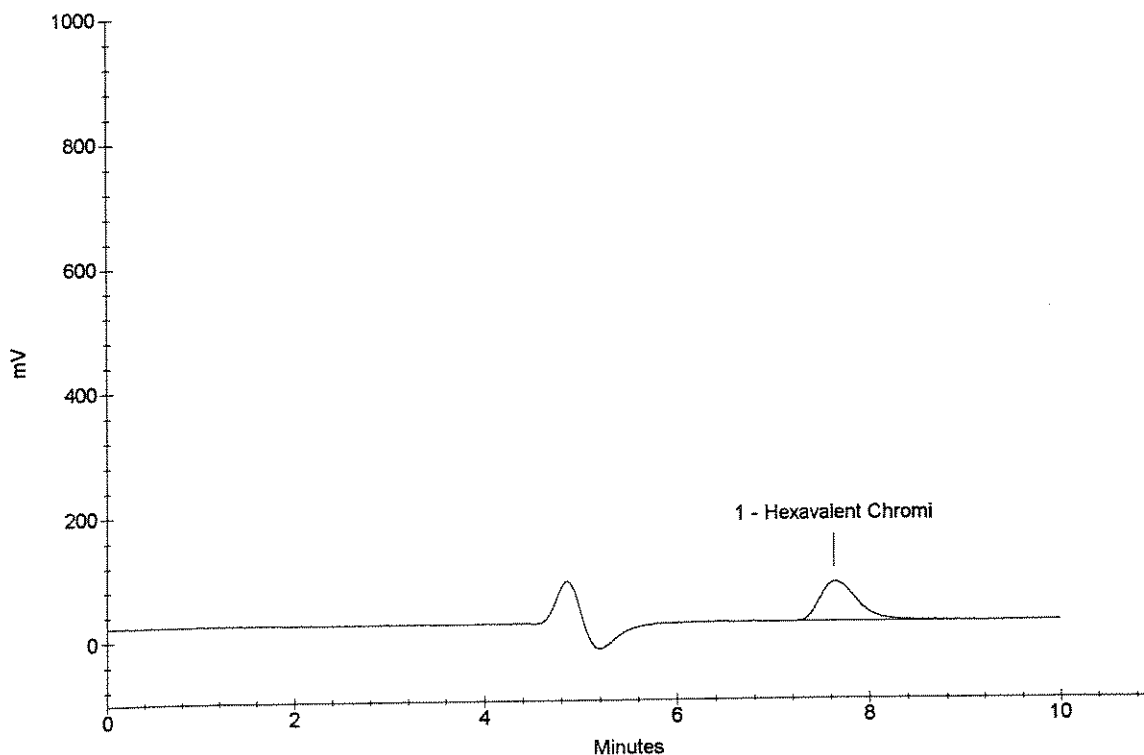
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi	0.5101	1702084

OK
[Signature]
1116922



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1117196
Data File Name : ...716_063.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 21:28:32

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

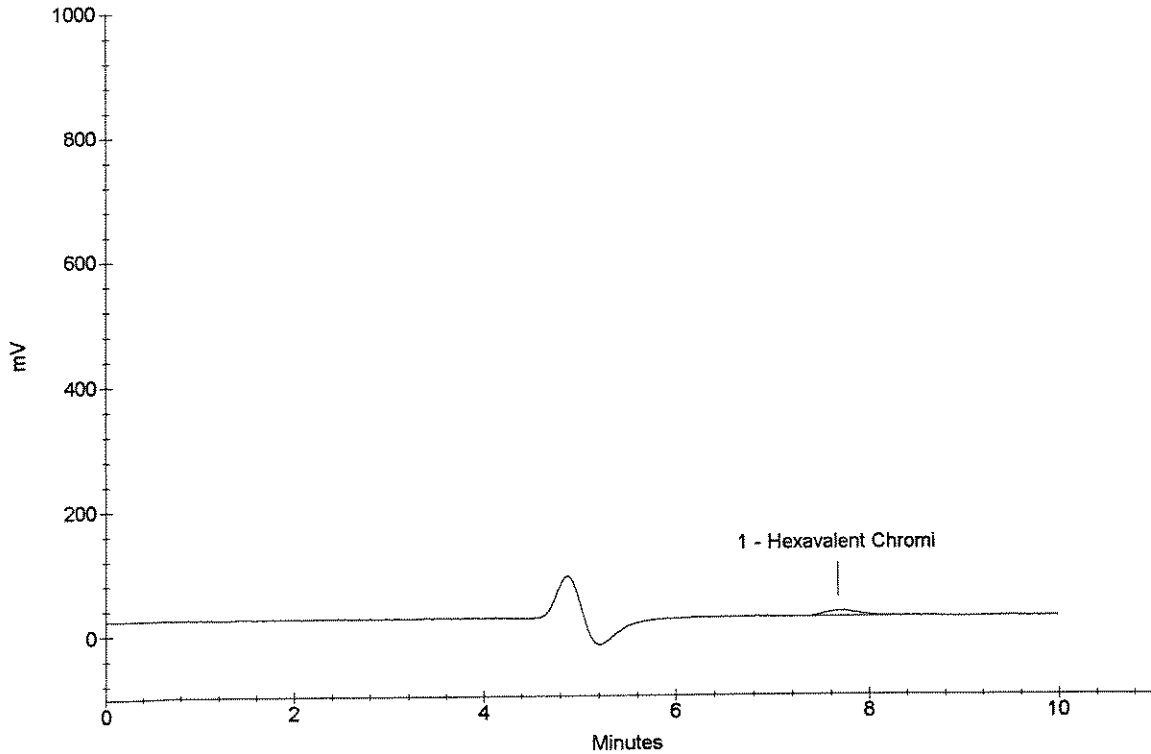
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.68	Hexavalent Chromi	0.0589	203217

OK
WJ
8/18/08
1117196



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1117197
Data File Name : ...\\716_064.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 21:38:57

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

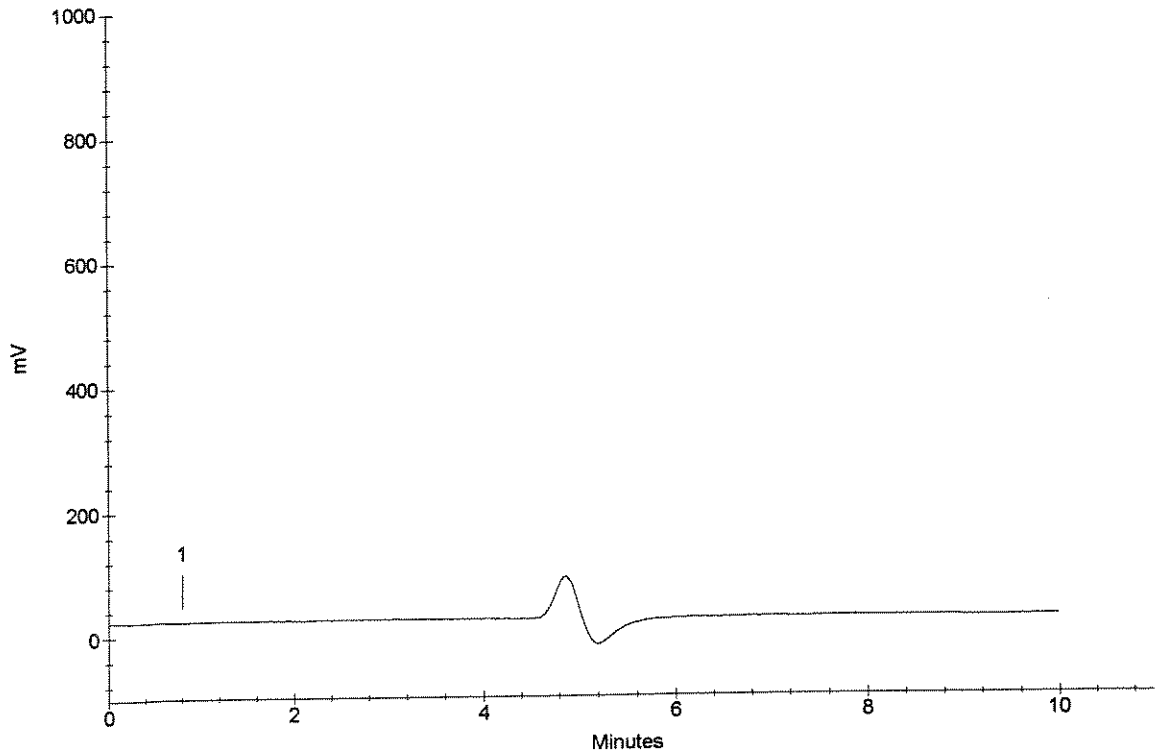
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
7/16/08
1117197



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...716_065.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 21:49:21

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

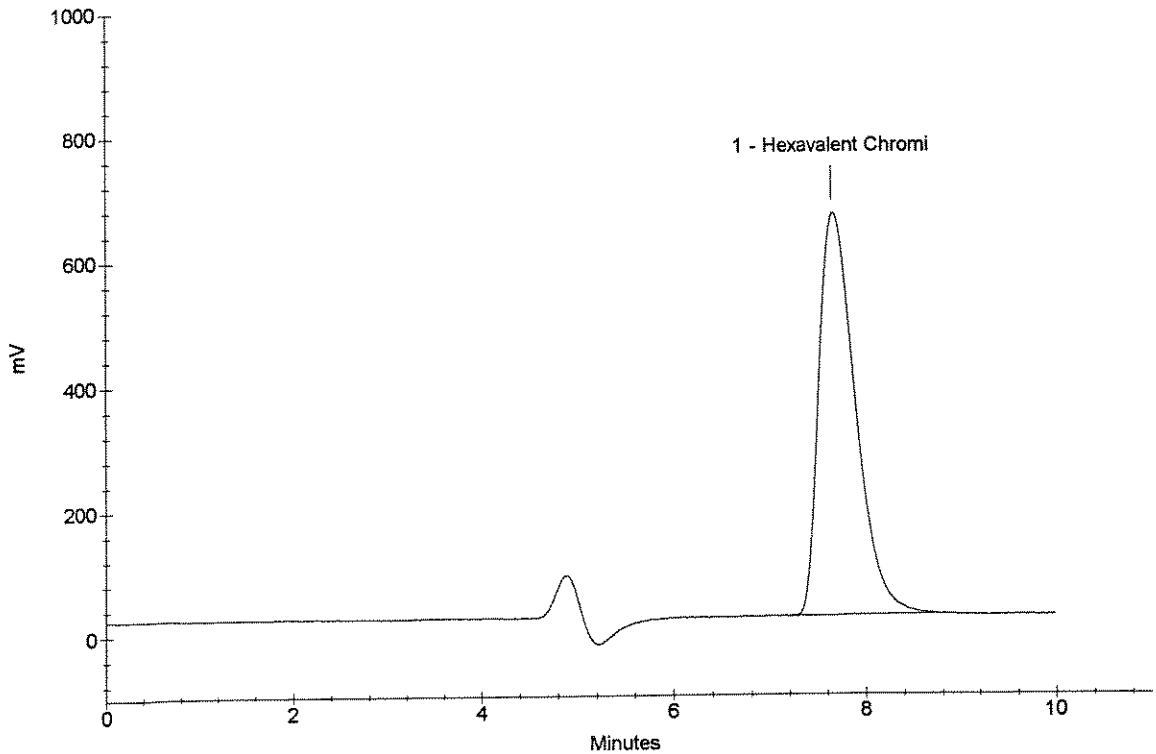
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.68	Hexavalent Chromi	0.5127	17041351

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7/16/08
CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...716_066.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 21:59:46

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

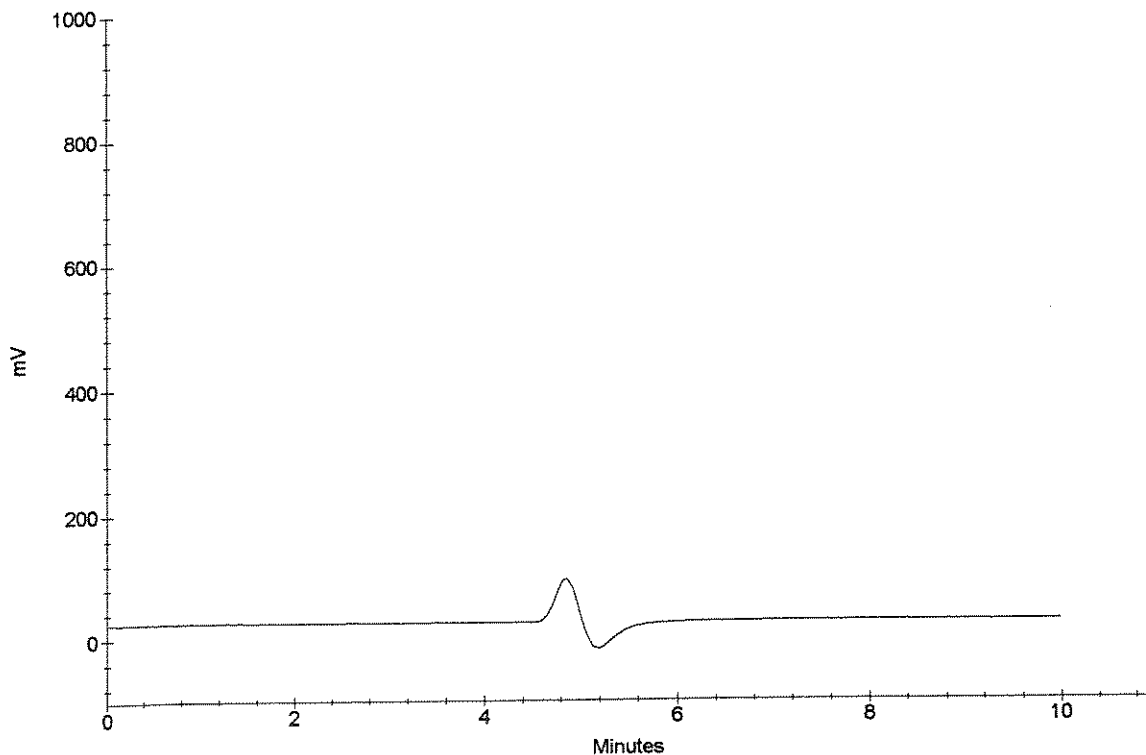
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
7/18/08
CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112065
Data File Name : ...\\716_067.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 22:10:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

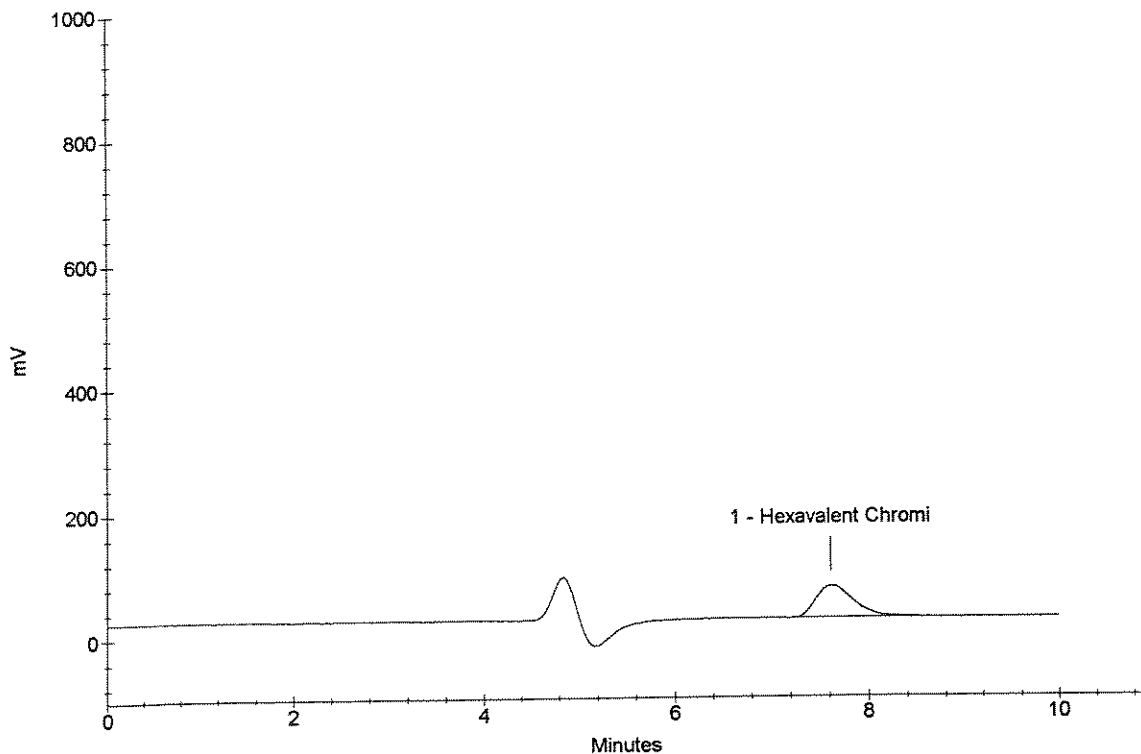
Dilution Factor : 20.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi	0.8090	1351316

OK
C. J. [Signature]
1112065



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112065 DUP
Data File Name : ...716_068.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/16/08 22:20:34

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

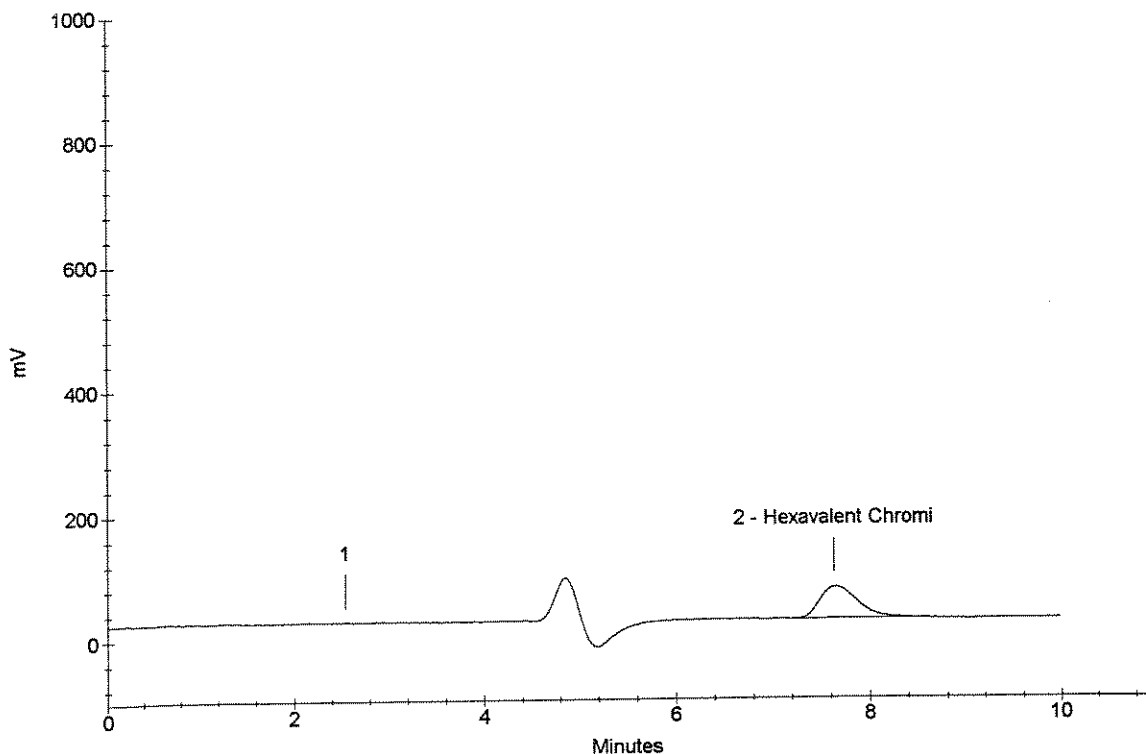
Dilution Factor : 20.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.64	Hexavalent Chromi	0.8022	1340119

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1112065 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112065 SPK
Data File Name : ...\\716_069.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 22:30:59

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

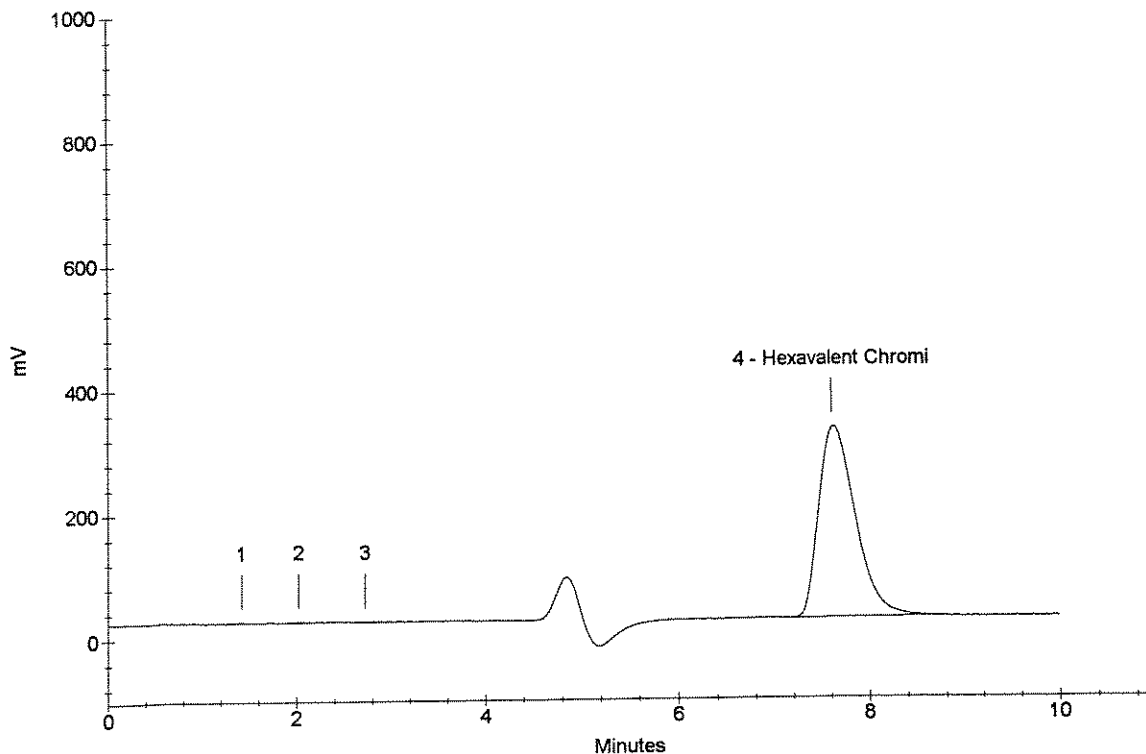
Dilution Factor : 20.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
4	7.62	Hexavalent Chromi	4.9122	8167520

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1112065 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\716_070.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/17/08 09:14:40

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

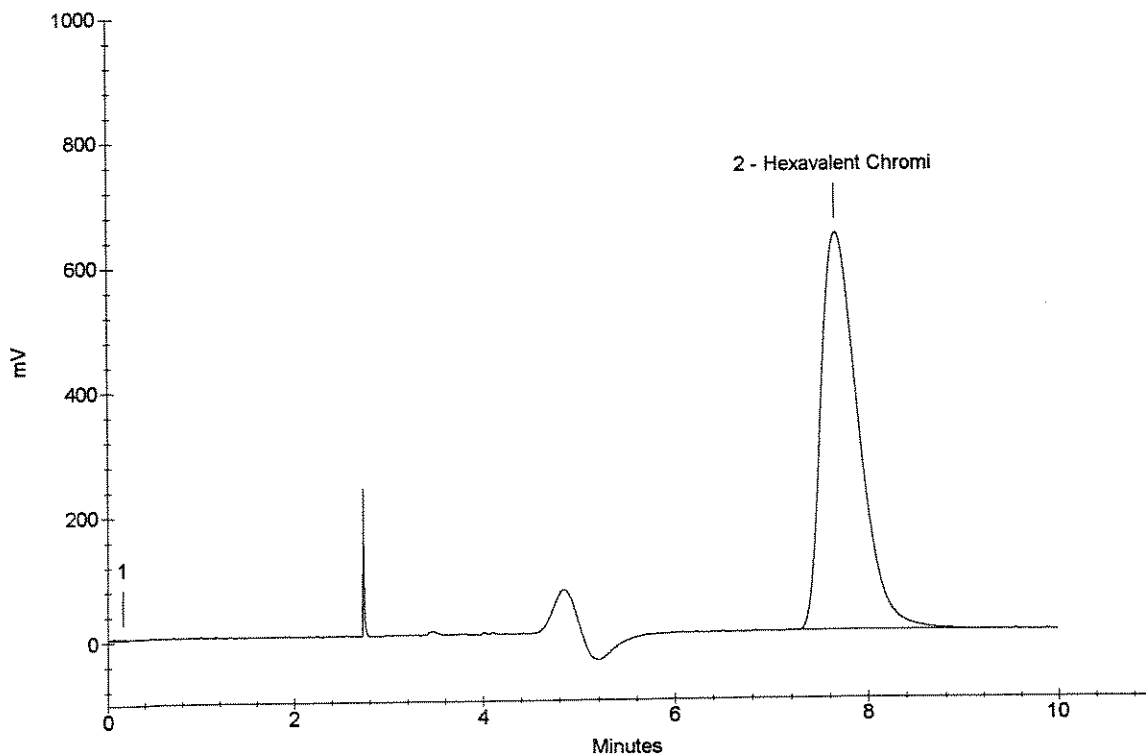
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.70	Hexavalent Chromi	0.5152	17124147

OK
7/18/08
CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...716_071.DXD
Method File Name : ...Cr6-716.met
Date Time Collected : 7/17/08 09:25:04

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

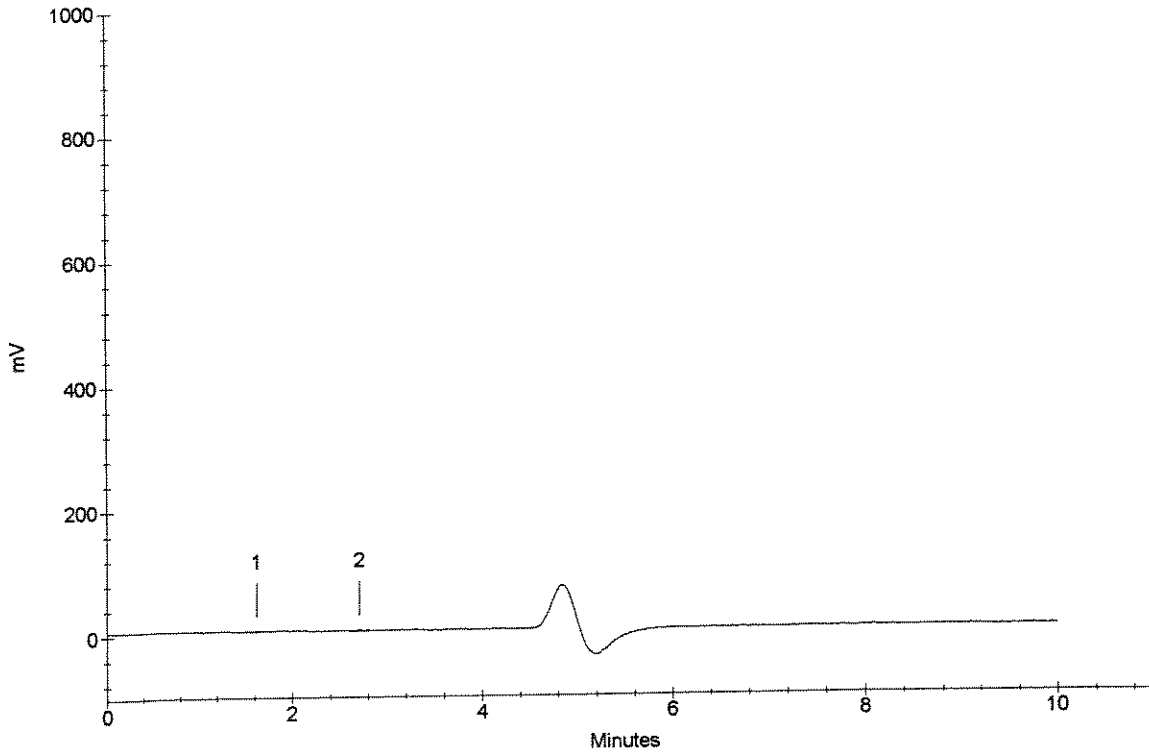
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
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CCB



Ion Chromatography Cover Sheet

Instrument: Dionex 4000 Series, IC #1

Column: AS7 Analytical Column, NG-1 Guard Column, 4mm, 07/07/08

Curve Date: 07/16/08Loop size: 100 uL LoopAnalyst: C. WoodsAnalysis Date: 7-16-08Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Date Rec'd</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Standard Stock	03/14/07 19	WC76254G	Calibration Stds	Daily	SAME AS WC85001A
LCS / MS Soluble Stock	03/14/07 19	WC76254G	Soluble MS	Daily	SAME AS WC85001B
I/CCV Standard Stock	11/28/05 12/13/07	WC85083G	I/CCV	Daily	SAME AS WC85001D
LCS / MS Insoluble Stock	01/11/08	WC85095H Soils Only	Insoluble LCS/MS	Daily	SAME AS WC85001C
			Soluble LCS	Daily	SAME AS WC85001E

Comments:

Instrument software prevents analytes with no peak area from being used in the curve calculation. The method requires the use of a zero point, so to ensure the use of our zero, the quantitation file will include a (0,0) point in the calibration curve when no area has been assigned to the zero standard.

Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 1
Sample Type : Calibration Update
Data File Name : ...\\716_001.DXD
Method File Name : ...\\Cr6-716.met

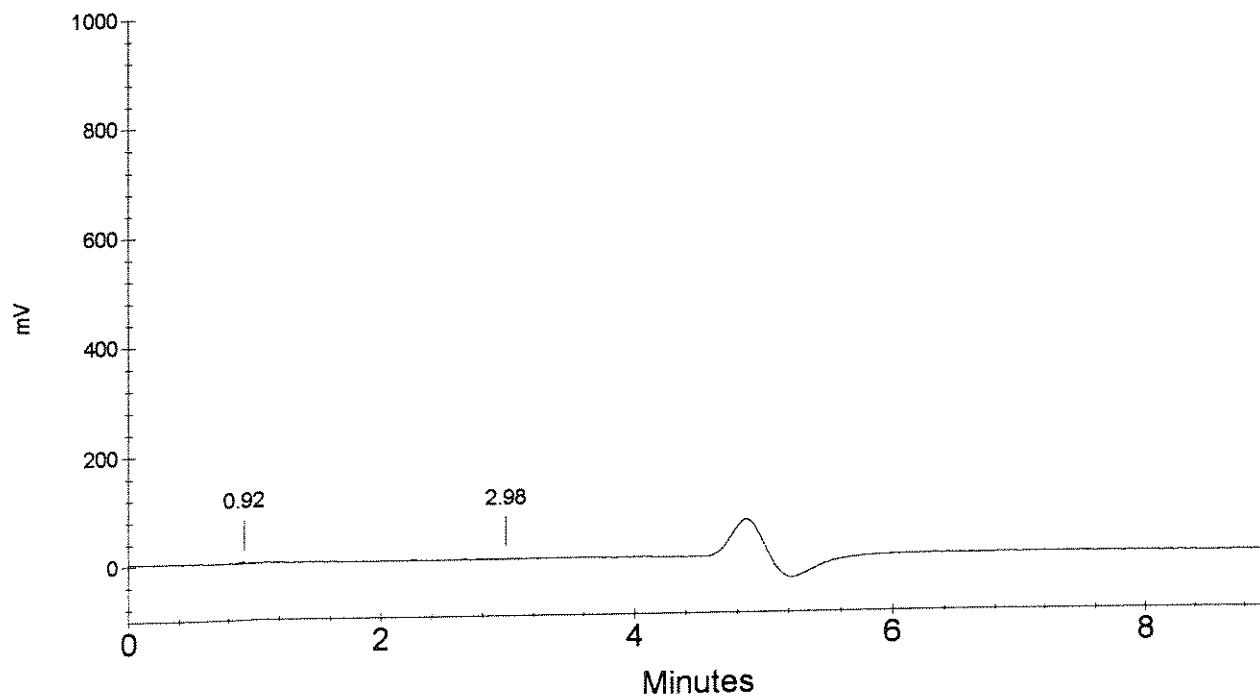
Date Time Collected : 7/16/08 10:43:27
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 1

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	0.92	<i>OK</i> <i>CMW</i> <i>7/17/08</i> STANDARD 1	0.000	8870



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 2
Sample Type : Calibration Update
Data File Name : ...\\716_002.DXD
Method File Name : ...\\Cr6-716.met

Date Time Collected : 7/16/08 10:53:52
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

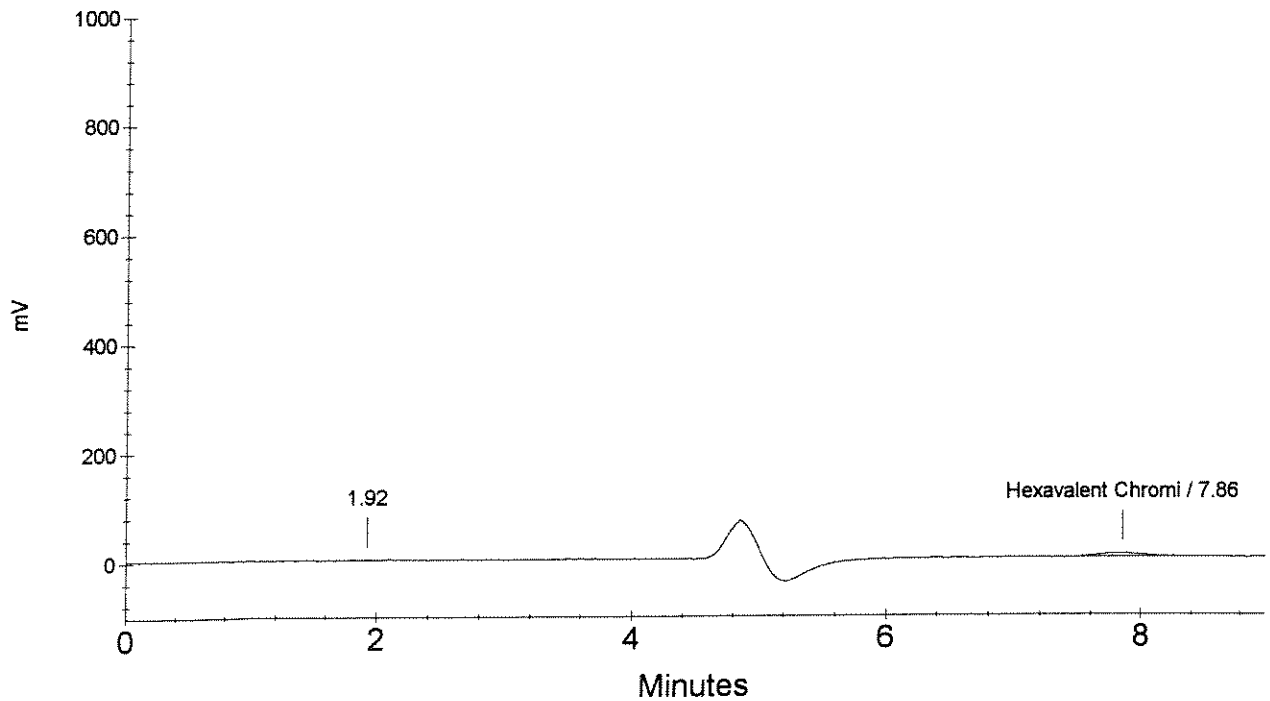
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 2

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.86	Hexavalent Chromi	0.005	156910

CMW
7/17/08
STANDARD 2



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 3
Sample Type : Calibration Update
Data File Name : ...\\716_003.DXD
Method File Name : ...\\Cr6-716.met

Date Time Collected : 7/16/08 11:04:17
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

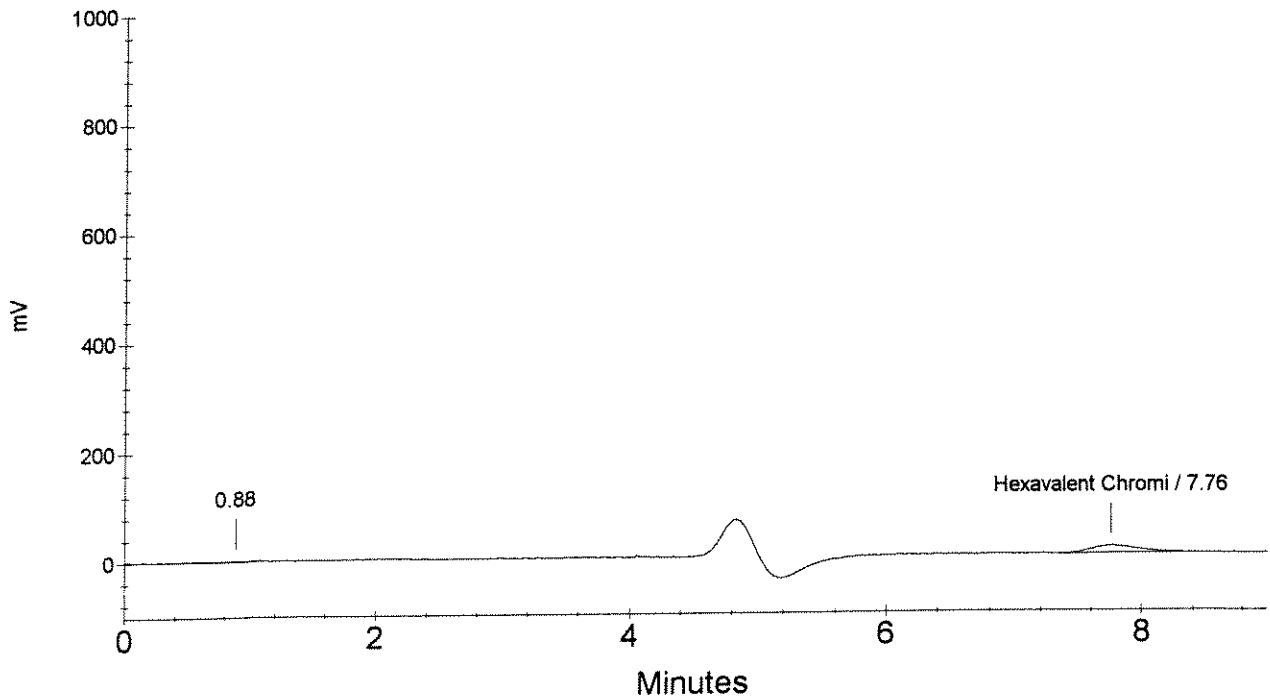
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 3

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.76	Hexavalent Chromi	0.010	347287

STANDARD 3



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 4
Sample Type : Calibration Update
Data File Name : ...\\716_004.DXD
Method File Name : ...\\Cr6-716.met

Date Time Collected : 7/16/08 11:14:41
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

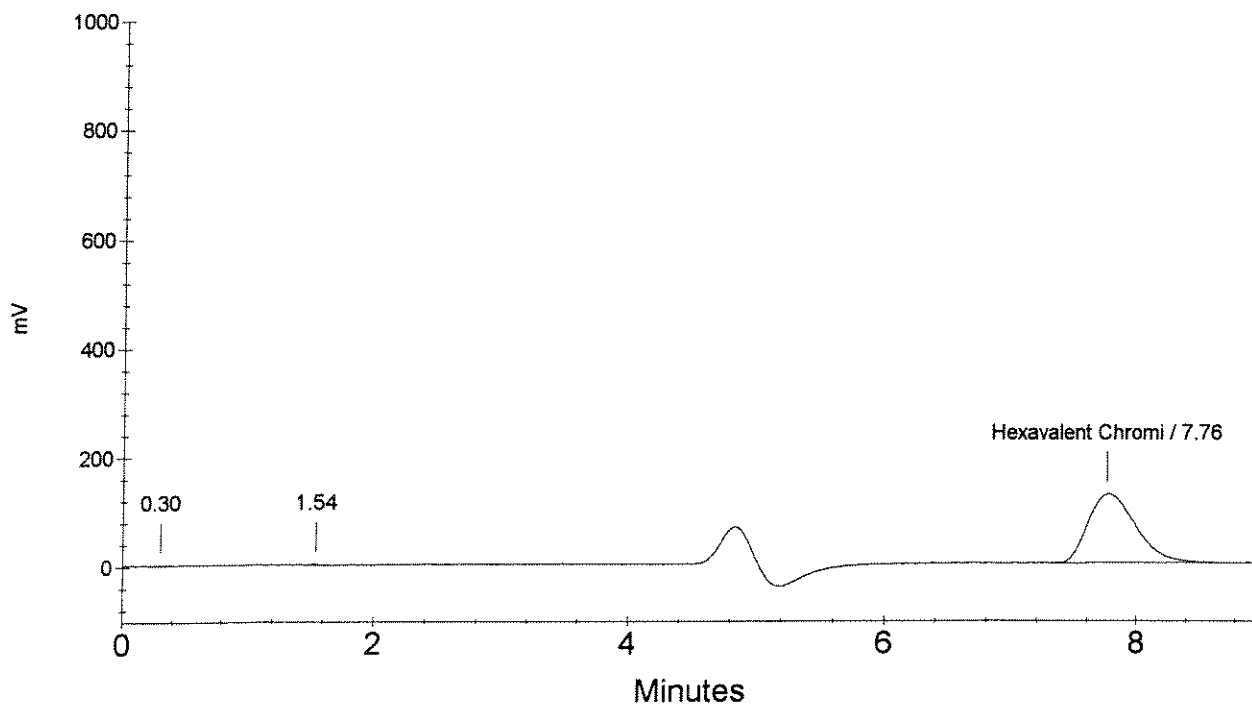
Calibration Type : EXTERNAL
Calibration Level : 4

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
3	7.76	Hexavalent Chromi	0.100	3343001

OK
CMW
7/17/08

STANDARD 4



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 5
Sample Type : Calibration Update
Data File Name : ...\\716_005.DXD
Method File Name : ...\\Cr6-716.met

Date Time Collected : 7/16/08 11:25:06
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

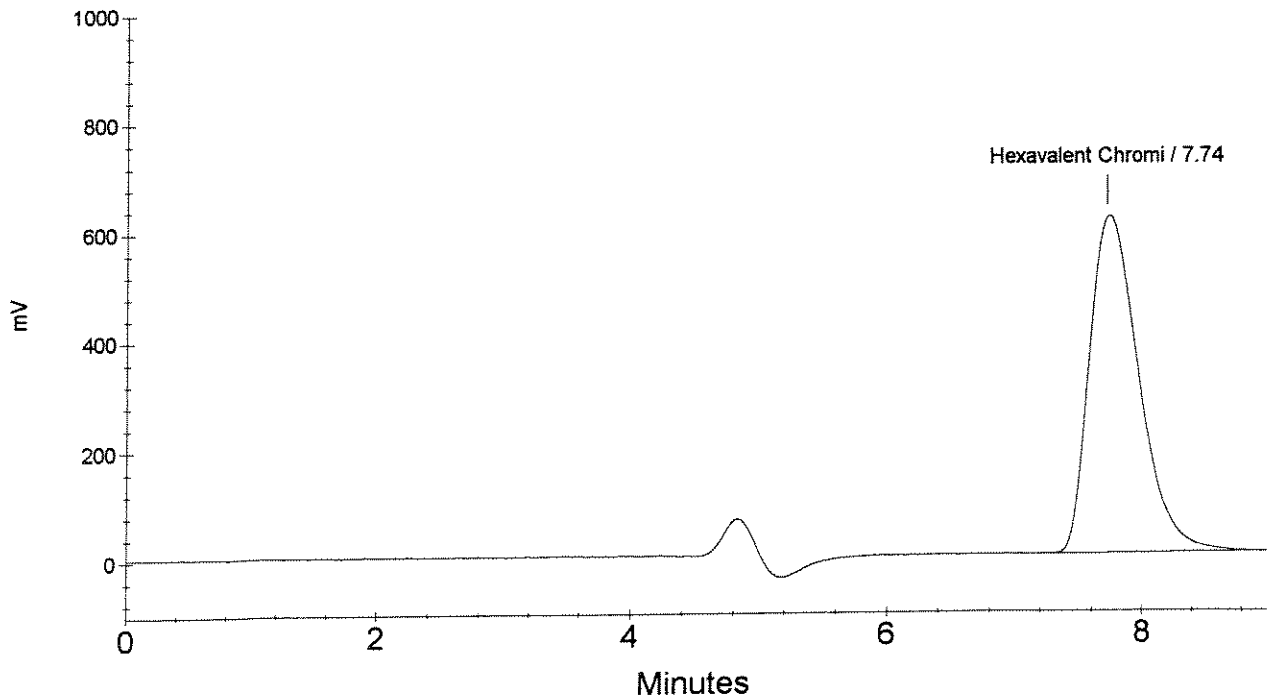
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 5

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.74	Hexavalent Chromi	0.500	16638083

CMW
7/17/08
STANDARD 5



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 6
Sample Type : Calibration Update
Data File Name : ...\\716_006.DXD
Method File Name : ...\\Cr6-716.met

Date Time Collected : 7/16/08 11:35:31
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

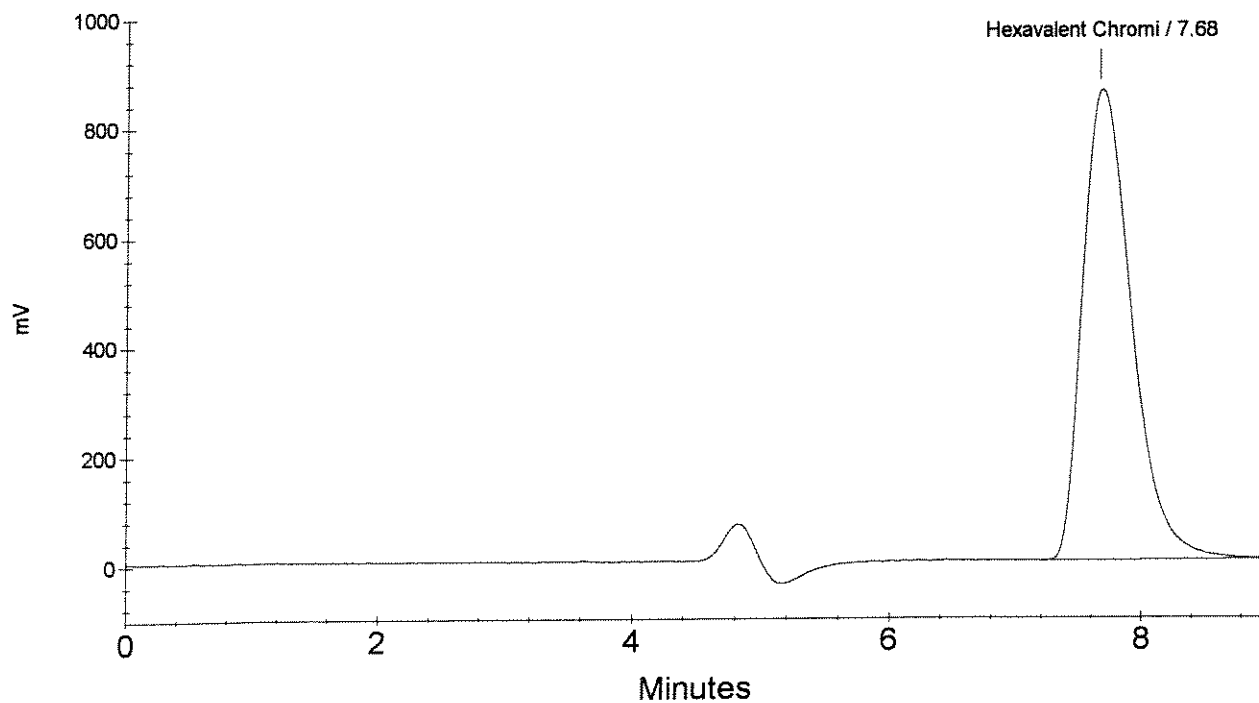
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 6

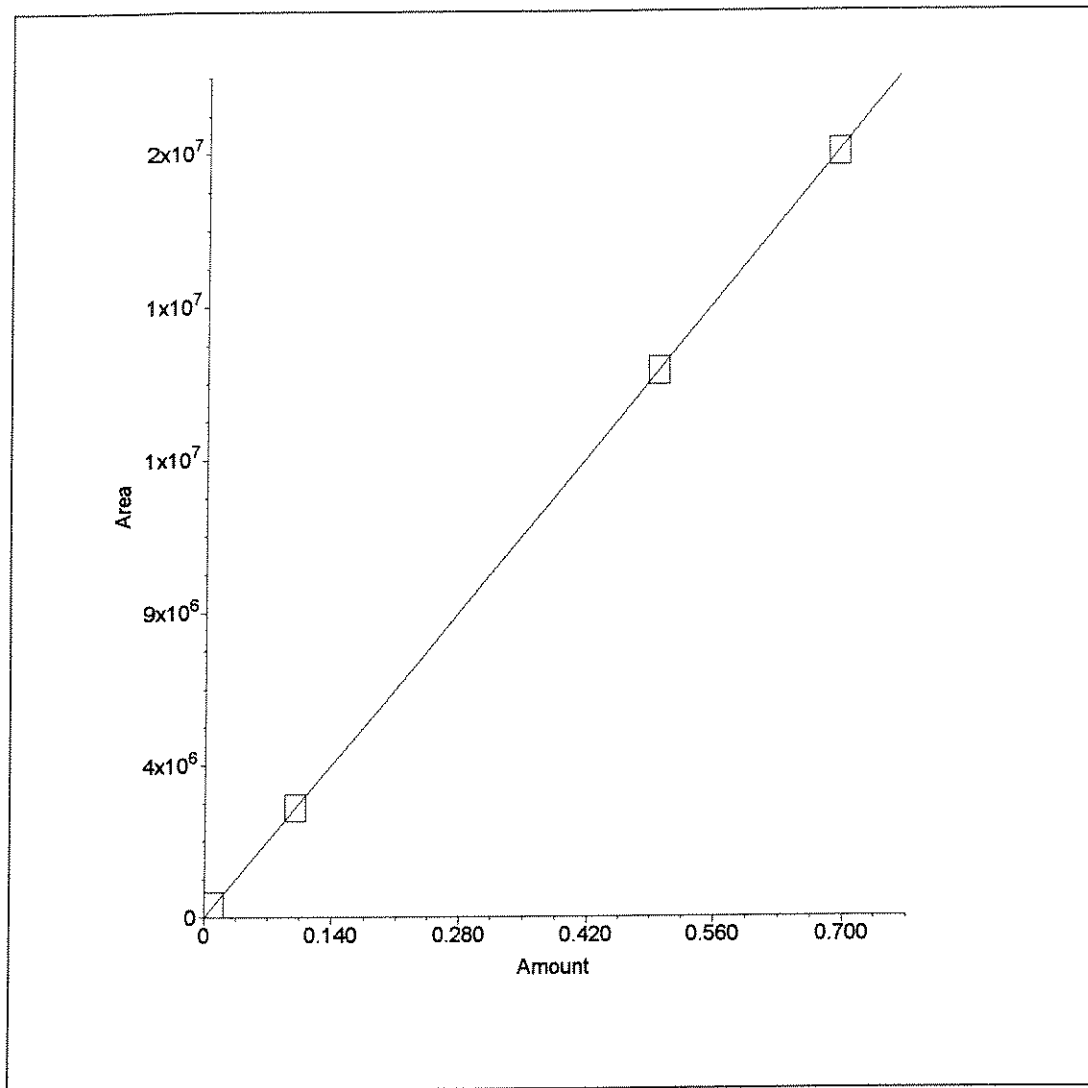
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.68	Hexavalent Chromi <i>OK</i>	0.700	23248396

CMW
7/17/08
STANDARD 6



1. Component: Hexavalent Chromi
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2=0.999998$
Amt= $3.01e-008 * Resp + -0.0002258$



DIONEX ACI METHOD PARAMETERS - Cr6-716.met

Method Information : All Modules

System Name : Dionex 4000i
System Number : 101
Method Type : Ion Chromatography
Column : AS7 (012190) NG-1 (020261)
Analyst : CMW
Comment : Cal.: IC#1, 07/16/08 50uL Loop

AI450 Detector Parameters

Detector Type : UV/Vis
Data collection time (minutes) : 10.00
Data Collection Rate : 20.00
Real time plot scale maximum (mV) : 1500.000
Real time plot scale minimum (mV) : -100.000

AI450 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 12.00
Peak threshold : 2.00
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

AI450 Smoothing Parameters

Filter Type : No filter

AI450 Report Data

Report Format File : J:\ACQUDATA\IC\METHOD.ACI\IC#2\As7-cr6.rpt
Print Sample Analysis : Yes
Print Calibration Update : Yes
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

AI450 Integration Data Events

Time	Description
3.20	Stop peak detection
4.40	Force baseline at start of all peaks
5.00	Double peak threshold
6.00	Start peak detection

AI450 Calibration Parameters

External or internal calibration : **EXTERNAL**
Number of replicates for calibration : **1**
Rejection : **Manual**
Level Weighting : **Equal**
Calibration standard volume : **1.00**
Default sample volume : **1.00**
Amount units : **PPM**
Replace retention time : **Yes**
Update response : **Yes**
Default dilution factor : **1.00**
Default response factor for unknown peaks : **0.00**
Calculate unknowns by area or height : **Area**

AI450 Component Identification Table

Component	Retention	Tolerance	Reference
Hexavalent Chromi	7.68 min	10.00 %	

AI450 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Hexavalent Chromi	7.68 min	0	0

AI450 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Hexavalent Chromi	7.68 min	Linear	Include	Area		0.00

AI450 Component = Hexavalent Chromi Levels Table

Retention Time : 7.68 min

Amount units : PPM

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

Level	Amount	Replicate 1	
1	0.00	2.27454e+007	NO PEAK DETECTED on 7/16/08
2	0.01	156910	
3	0.01	347287	
4	0.10	3.343e+006	
5	0.50	1.66381e+007	
6	0.70	2.32484e+007	

AI450 XY Data Parameters

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Sample Name : ICV
Data File Name : ...\\716_007.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 11:45:56

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

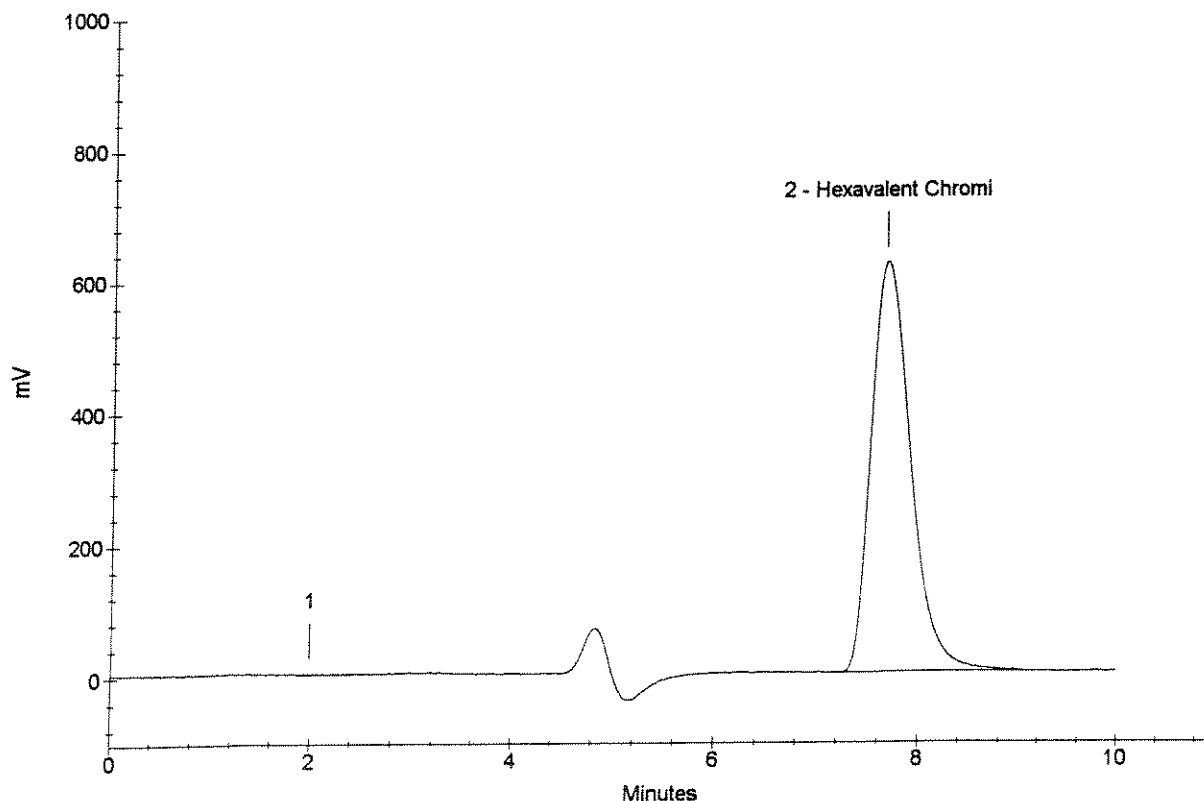
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.68	Hexavalent Chromi <i>OK</i>	0.5027	16708230

ICV
7/17/08



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Sample Name : ICB
Data File Name : ...\\716_008.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 11:56:21

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

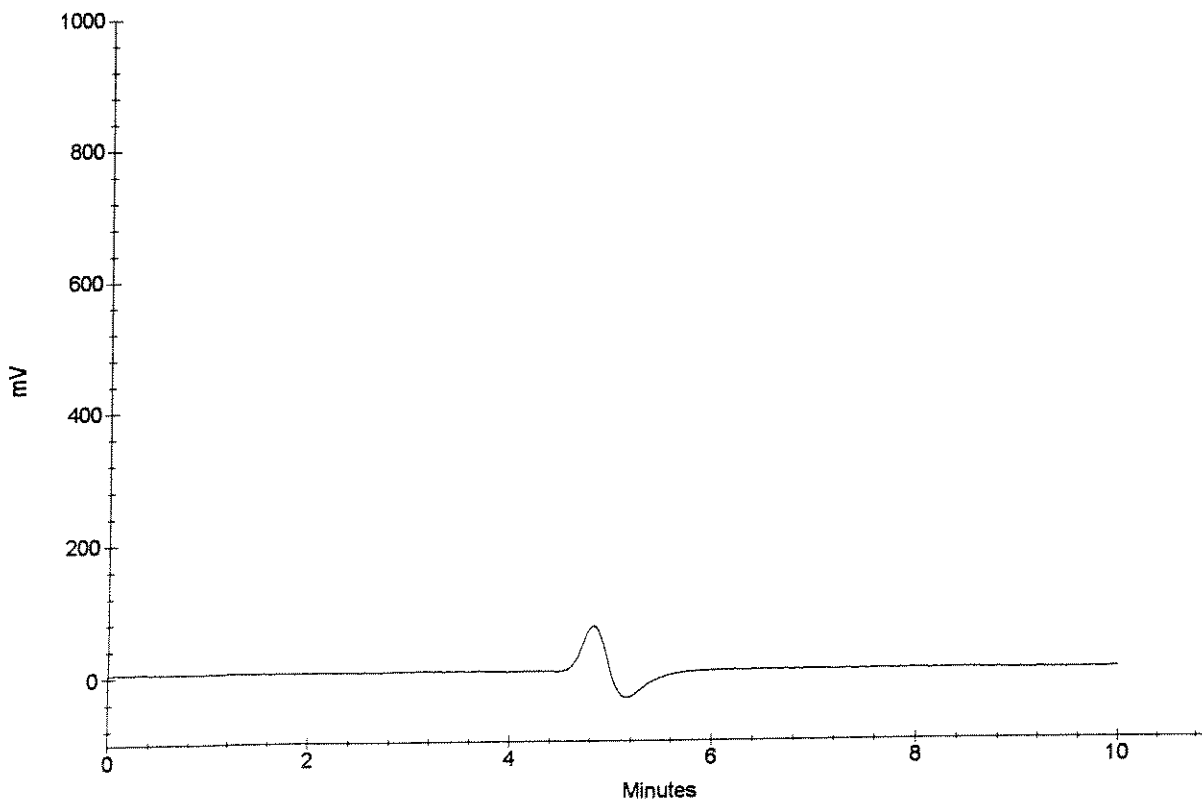
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
-------------	---------------------	----------------	------------------------	-----------

DK
CUT
7/17/08
ICB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\\716_009.DXD
Method File Name : ...\\Cr6-716.met
Date Time Collected : 7/16/08 12:06:45

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

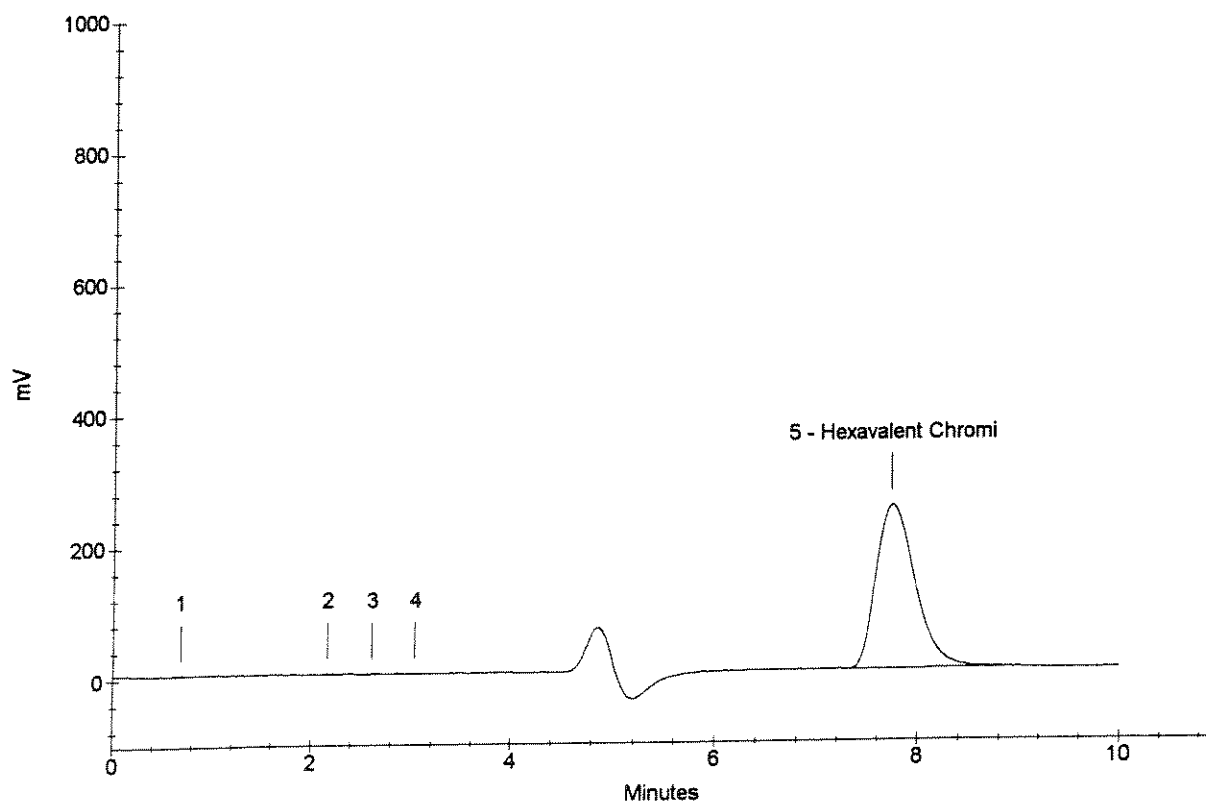
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
5	7.74	Hexavalent Chromi	0.1984	6599758

LCS

OK
CM
7/17/08



Ion Chromatography Cover SheetInstrument: **Dionex 4000 Series, IC #1**Column: **AS7 Analytical Column, NG-1 Guard Column, 4mm, 07/07/08**Curve Date: **07/16/08**Loop size: **100 uL Loop**Analyst: **C. Woods**Analysis Date: **7-16-08****Standards Prep Dates & Log ID's:**

<i>Std Type</i>	<i>Date Rec'd</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Standard Stock	03/14/07 19	WC76254G	Calibration Stds	Daily	SAME AS WC85001A
LCS / MS Soluble Stock	03/14/07 19	WC76254G	Soluble MS	Daily	SAME AS WC85001B
I/CCV Standard Stock	11/28/05 12/13/07	WC85083G	I/CCV	Daily	SAME AS WC85001D
LCS / MS Insoluble Stock	01/11/08 Soils Only	WC85095H Soils Only	Insoluble LCS/MS	Daily	SAME AS WC85001C
			Soluble LCS	Daily	SAME AS WC85001E

Comments:

Instrument software prevents analytes with no peak area from being used in the curve calculation. The method requires the use of a zero point, so to ensure the use of our zero, the quantitation file will include a (0,0) point in the calibration curve when no area has been assigned to the zero standard.

CMMW
7/16/07(A) Cr⁶⁺ 7199 Calibration Standards

10ppm Cr⁶⁺ working stock: Do two (2) 1:10 serial dilutions of 100ppm standard stock (WC762436) using buffered DI.

Std	Conc	mls Buffered DI	mls 10ppm Working Stock
6	0.70	9.3	0.70
5	0.50	9.5	0.50
4	0.10	9.9	0.10
3	0.010	9.0	1/10 dilution of #4
2	0.005	9.0	1/10 dilution of #5
1	0.0	10.0	—

(B) Cr⁶⁺ 7199 Soils Soluble Matrix Spike

Add 1ml of 100ppm working standard stock (1/10 dilution of 1000ppm standard (WC762436) to sample during digestion. TV = 100/sample mass(g).

(C) Cr⁶⁺ 7199 Soils Insoluble Matrix Spike

Add approximately 10mg of Lead Chromate (WC69237E) to sample or digest reagent during digestion.

$$TV = \frac{\text{mg PbCrO}_4}{\text{sample mass (kg)}} \times 0.161 =$$

(D) Cr⁶⁺ 7199 ICV/CCV

Add 0.5mls of 100ppm working reference stock (do two (2) 1:10 serial dilutions of 1000ppm reference stock (WC76060B) to 9.5mls of buffered DI. TV = 0.50

(E) Cr⁶⁺ 7199 Waters LCS

Add 0.2mls of 10ppm working standard stock to 10mls of buffered DI. TV = 0.20.

TC

7/16/07

(F) TOTN + NO₂ Buffer

To a tared 1-liter amber glass jar add:

- 778.5g DI
- 113.4g HCl (WC762810F)
- 76.5g NH₄OH (WC762591F)
- 0.90g EDTA (WC762791H)

Stir until dissolved + cool. Adjust pH to 8.5 w/ conc. HCl or NaOH. Exp 1 yr, 7/16/08.

Reviewed & Approved

By: CKDate: 9/16/07

3/16/07 **(A)** Ascorbic Acid - OPO₄ Kanelab
 U3 In a 100 mL vol flask add ~80 ml DI.
 Dissolve 6.0g Ascorbic Acid (WC76189D).
 Add 0.2 ml Acetone (WC76060F). Bring
 to volume with DI. Expires 2 weeks, 3/30/07

3/19/07 **(B)** 0.02500 N Iodine - sulfides
 GN In a 1 Liter vol. flask add 20.65g KI (WC76230C) to
 ~500 ml DI. Dissolve, then add 3.2g Iodine (WC69254D)
 Bring to volume w/DI. Stir until dissolved. Store in
 amber glass at 4°C. Standardize w/ each use.
 Exp 1 year, 3/19/08.

3/19/07 **(C)** 0.02500 N N₂S₂O₈ - sulfides
 GN 50.0 ml ^{0.1N} N₂S₂O₈ (WC76237G) → 200 ml volumetrically
 w/DI. Store at 4°C. Exp: 2 weeks 04/02/07.

3/19/07 Received from VWR
 AD **(D)** (1) x 4L Water Hardness Titrant, 1ml = 1mg CaCO₃.
 Cat # VW3511-4, VWR Lot # 6331, OAS # 6381-92-6.
 Store @ R.T. Expires 5/31/08
(E) (1) x 500g Ferric Ammonium Sulfate · 6H₂O.
 Cat # FX0245-1, EMD Lot # 4516 46 25,
 CAS # 7783-85-9. Store @ R.T. Expires 3/19/10

Received from Fisher

(F) (1) x 100 mL Chromium Reference Std Soln, 1000ppm.
 Cat # SC192-100, Fisher Lot # 067819, CAS # 7732-18-5,
 7778-50-9. Store @ R.T. Expires 1/2009
(G) (1) x 500 mL Chromium Reference Std Soln, 1000ppm.
 Cat # SC192-500, Fisher Lot # 067819, CAS # 7732-18-5,
 7778-50-9. Store @ R.T. Expires 1/2009

3/20/07 **(H)** Color Reagent - TKN
 TC - Same as WC76251B. Exp. 1 month, 4/20/06.

(I) Buffer - TKN
 - Same as WC76251C. Exp. 1 month, 4/20/06.

3/20/07 **(A)** Post
 NM - same

(B) Hypoc
 - same

3/20/07 **(C)** TSS
 DF 0.2
 w/DI.

3/21/07 **(D)** 10% I
 NB Same.

3/22/07 **(E)** NH₃ - B
 TC To a To a

- 50.0g
 - 9.0g
 - 965 g
 Stir until

(F) NH₃ C
 To a jar
 - 3.50g Soc
 - 1000g UPD.
 Stir until

(G) Sodium
 To a tar
 - 988g U
 - 94.2g L
 - 32.0g S
 Stir until
 Store @ R

(H) Color Reag
 To a jar
 75.0g Sodium
 0.50g Sodium

12/12/07 (A) TPO4 Color Reagent

TR To a dated 500 mL plastic bottle add:

- 347.0g UPOI
- 19.2g conc. instrumentalyzed H_2SO_4
- 36.0g Stock APT
- 106.5g NH_3 Molybdate Solution

Mix well. Degas prior to use. Store @ $4^\circ C$.
Exp. 1 yr., 12/12/08, or when discolored.

(B) Ascorbic Acid

To a dated 500 mL plastic bottle add:

- 36.0g Ascorbic Acid
- 487.5g UPOI

Degas w/ Helium for 5 minutes then add,

- 0.50g Dodecyl Sodium Sulfate
Store @ $4^\circ C$. Exp 1 wk. 12/19/07.

12/2/07 (C) KIO_3 Titrant - Chlorine Demand

NM

- same as WC85006D. Prepare fresh each run.

(D) Stock Chlorine Solution - Chlorine Demand

- same as WC85021B. Prepare fresh each run and standardize with use.

12/13/07 (E) NH_3 Carrier/Diluent

NM

- same as WC85073F. Prepared solution X3.

(F) Hypochlorite - NH_3

- same as WC85051B. Prepare fresh each run.

~~(G)~~ Received from Environmental Express

(G) (1) x 250ml 1000ppm Hexavalent Chromium,
CAT NO. HP100012-7, EE lot # 0718018,
CAS #'s 7778-50-9/231-906-6, 7732-18-5,
Store @ RT, Expires 6/12/2009.

TC ^{TC 11/10/08}
1/10/08 ~~A~~ DPD Indicator

TC in a 500 mL vol flask, dissolve 0.50g DPD (WC16015F) and 0.100g EDTAC and 4mL 1 + 3 H₂SO₄ (WC85027B) in upDI, Bring to vol. Store @ RT in amber glass Exp 1 yr, or when discolored, 1/10/09

1/10/08 NM B Sodium Phenolate - NH₃
- same as WC85088F. Exp. 1 year, 1/10/09.

1/11/08 NM C Erochrome Black-T Indicator (Hardness)
- same as WC85075H. Exp. 5/31/08.

1/11/08 KP D TSS Reference
0.2152g K₂Cr₂O₇ (WC69285G) brought to 1000g w/DI. Store at 4°C in a plastic bottle.
TV = 215 mg/L exp: 01/11/09

1/11/08 ~~12/11/08~~ E Citrat Soils Buffer
In a 500 mL vol. flask dissolve
- 43.545g K₂HPO₄ (WC76227G)
- 34.02g KH₂PO₄ (WC85054G)
in ~400 mL DI. Bring to vol. w/ DI. Store @ 4°C. Exp. 1 yr. 1/11/09.

F Citrat Soils Digest Solution
20.0g NaOH pellets (WC85072G) and 30.0g Na₂CO₃ (WC76232D) dissolved in DI. Bring to 1 liter volumetrically w/ DI.
Exp. 1 month, 2/11/08.

1/11/08 G 0.0250 Na₂S₂O₃ - sulfides
TC Dilute 50 mL 1.0N Na₂S₂O₃ (WC85067D) → 200 mL volumetrically w/ DI. Store for 2 weeks @ 4°C. Exp. 1/25/08.

1/11/08 AB H Received from Alfa Aesar
(H) (1) x 100g Yeh I Chromate. Lot # 14125, 44 Lot # J03Q003, CAS # 7758-97-6. Store @ R.T. Expires 1/11/11

Run #: 162987
Analyte: NITRITE 9056
Printed: 06/26/08 08:17

NITRITE NITROGEN (NO2) AS N BY ION CHROM

44650

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844650	1112065	WATER	0.995	10.0	0.05			06/25/08	RUN	ASPB
CHK5		1112294	WATER	3.58	1.0	0.05	99.3		06/25/08		
BLK4		1112295	WATER	0.0500	1.0	0.05			06/25/08		
SPKB		1112296	WATER	0.935	1.0	0.05	93.5		06/25/08		
ESMP	R2844650	1112066	WATER	2.00	40.0	0.05			06/25/08	RUN	ASPB
LDUP		1112297	WATER	2.00	40.0	0.05			06/25/08		
SPK1		1112298	WATER	32.6	40.0	0.05	81.5		06/25/08		
ESMP	R2844650	1112067	WATER	0.500	10.0	0.05			06/25/08	RUN	ASPB

Records printed: 8

Reviewed & Approved

By: S/Setto

Date: 6/29/08

Run #: 162986

Analyte: NITRATE 9056

NITRATE NITROGEN (NO3) AS N BY ION CHROM

Printed: 06/26/08 08:15

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844650	1112065	WATER	60.0	40.0	0.0500			06/25/08	RUN	ASPB
CHK5		1112289	WATER	3.58	1.0	0.0500	99.6		06/25/08		
BLK4		1112290	WATER	0.0500	1.0	0.0500			06/25/08		
SPKB		1112291	WATER	0.902	1.0	0.0500	90.2		06/25/08		
ESMP	R2844650	1112066	WATER	13.3	10.0	0.0500			06/25/08	RUN	ASPB
LDUP		1112292	WATER	13.5	10.0	0.0500		1.29	06/25/08		
SPK1		1112293	WATER	22.0	10.0	0.0500	87.1		06/25/08		
ESMP	R2844650	1112067	WATER	0.500	10.0	0.0500			06/25/08	RUN	ASPB

Records printed: 8

Results Entered Manually

worklists updated

Line	Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Weight	Int. Std.	Comment
1	CCV	Sample		20080623.met	0625_001.dxd	1	1	1	1	ANALYST: TC
2	CCB	Sample		20080623.met	0625_002.dxd	1	1	1	1	PIPETTES: LUCY, MINE
3	LCS	Sample		20080623.met	0625_003.dxd	1	1	1	1	CNNS
4	M-44B	Sample		20080623.met	0625_004.dxd	1	10	1	1	CNNS
5	M-44B	Sample		20080623.met	0625_005.dxd	1	100	1	1	CNNS
6	M-44B	Sample		20080623.met	0625_006.dxd	1	1	1	1	CNNS
7	H-49AB	Sample		20080623.met	0625_007.dxd	1	10	1	1	CNNS
8	H-49AB	Sample		20080623.met	0625_008.dxd	1	10	1	1	CNNS
9	H-49AB	Sample		20080623.met	0625_009.dxd	1	10	1	1	CNNS
10	H-49AB	Sample		20080623.met	0625_010.dxd	1	40	1	1	CNNS
11	H-49AB	Sample		20080623.met	0625_011.dxd	1	40	1	1	CNNS
12	H-49AB	Sample		20080623.met	0625_012.dxd	1	40	1	1	CNNS
13	H-49AB	Sample		20080623.met	0625_013.dxd	1	100	1	1	CNNS
14	H-49AB	Sample		20080623.met	0625_014.dxd	1	100	1	1	CNNS
15	H-49AB	Sample		20080623.met	0625_015.dxd	1	100	1	1	CNNS
16	FB052408	Sample		20080623.met	0625_016.dxd	1	10	1	1	CNNS
17	CCV	Sample		20080623.met	0625_017.dxd	1	1	1	1	CNNS
18	CCB	Sample		20080623.met	0625_018.dxd	1	1	1	1	CNNS
19	END	Sample		shutdown.met	0625	1	1	1	1	

Default Method Path: J:\ACQU\DATA\IC\METHOD.AC\IC#4
 Default Data Path: J:\ACQU\DATA\IC\DATA\IC#4\062508
 Comment:

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Sample Name : CCV
Data File Name : ...\\0625_001.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/25/08 11:32:00

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : ANALYST: TC

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

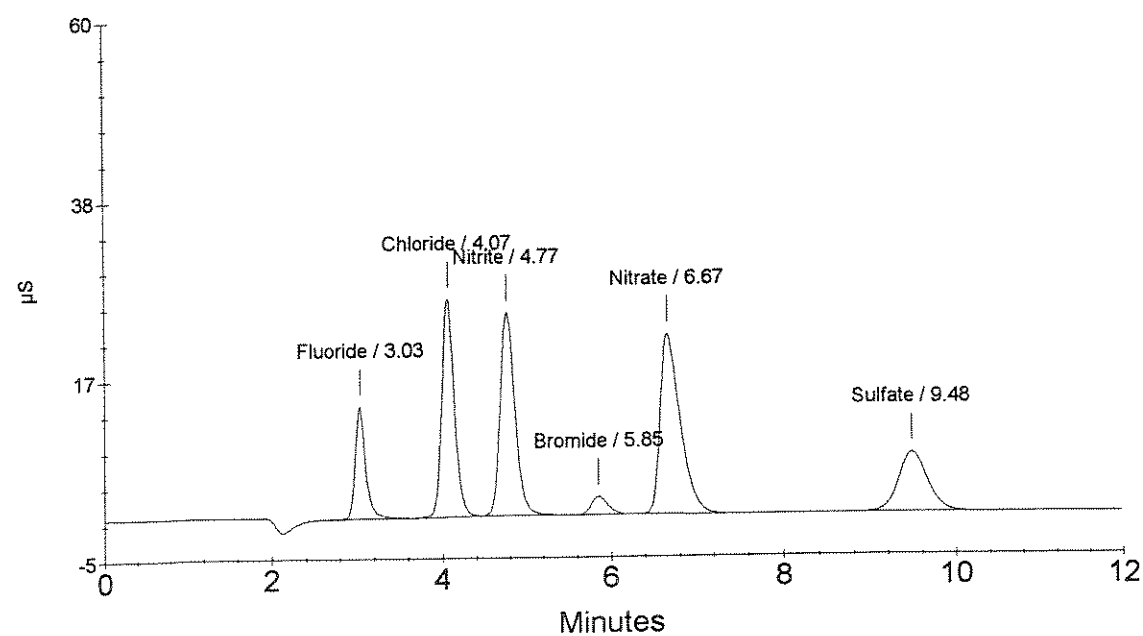
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	1.977	1157359
2	4.07	Chloride	6.302	2645256
3	4.77	Nitrite	3.576	3017761
4	5.85	Bromide	1.937	299600
5	6.67	Nitrate	3.585	3540223
6	9.48	Sulfate	6.424	1686585

OK
↓

TC 6/25/08

CCV



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Sample Name : CCB
Data File Name : ... \0625_002.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/25/08 11:46:22

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : PIPETTES: LUCY, MINE

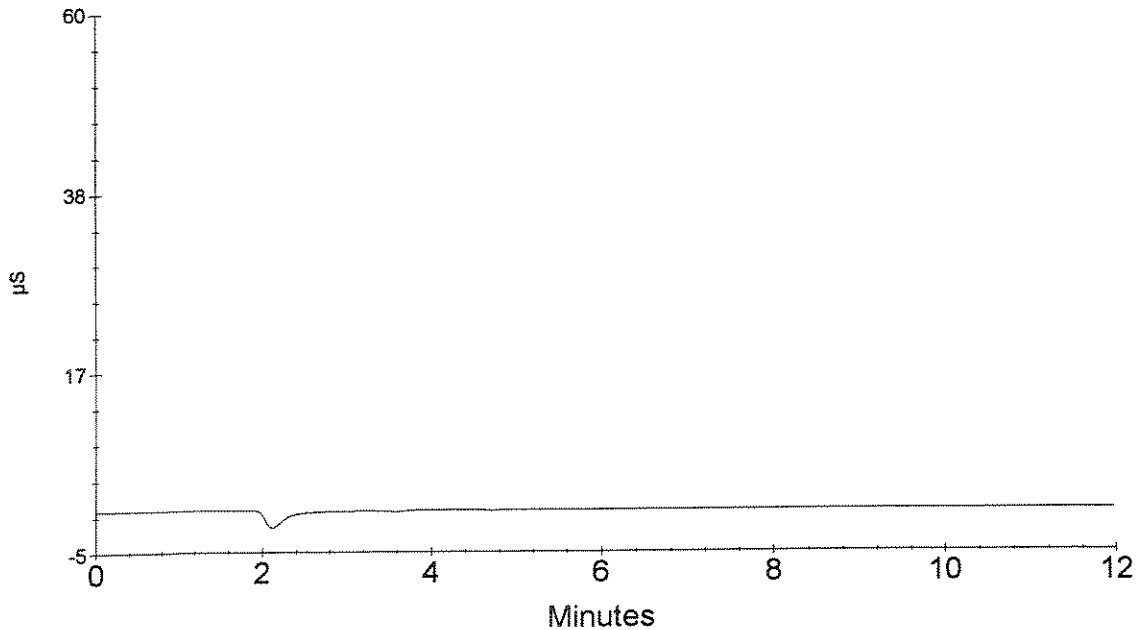
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK
↓
TC 6/25/08

CCB



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : LCS
 Data File Name : ... \0625_003.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/25/08 12:00:38

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

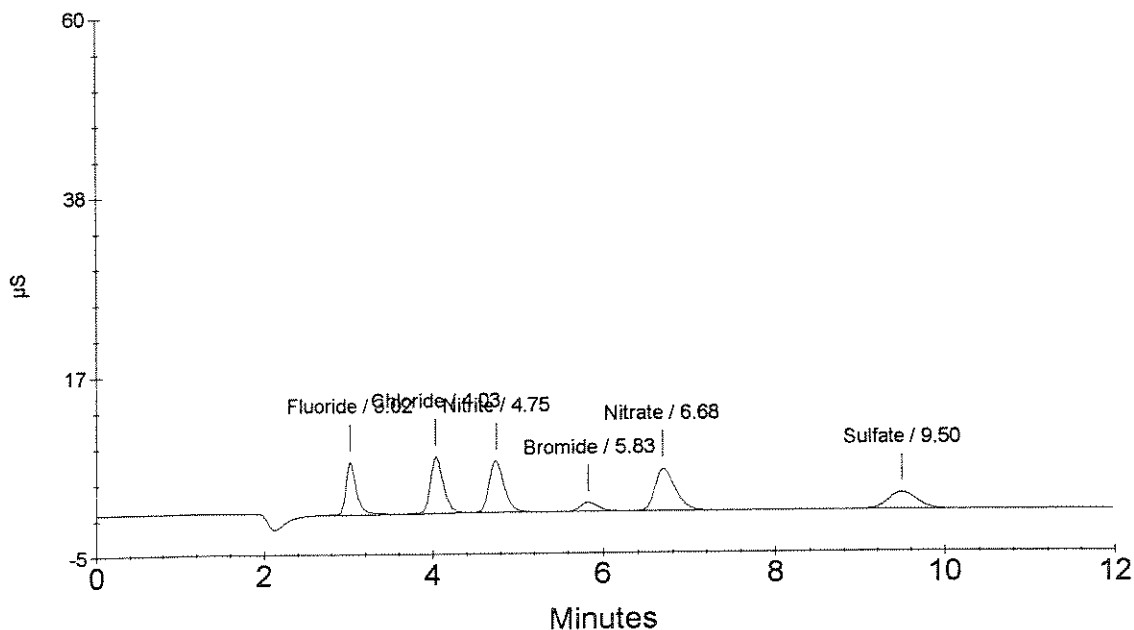
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	0.981	563341
2	4.03	Chloride	1.772	724509
3	4.75	Nitrite	0.935	759981
4	5.83	Bromide	0.986	153578
5	6.68	Nitrate	0.902	831978
6	9.50	Sulfate	1.883	480266

OK
 out low
 OK
 ↓

TC 6/25/08

LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

R-44650
1112065

Sample Name : M-44B
Data File Name : ... \0625_004.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/25/08 13:41:47

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

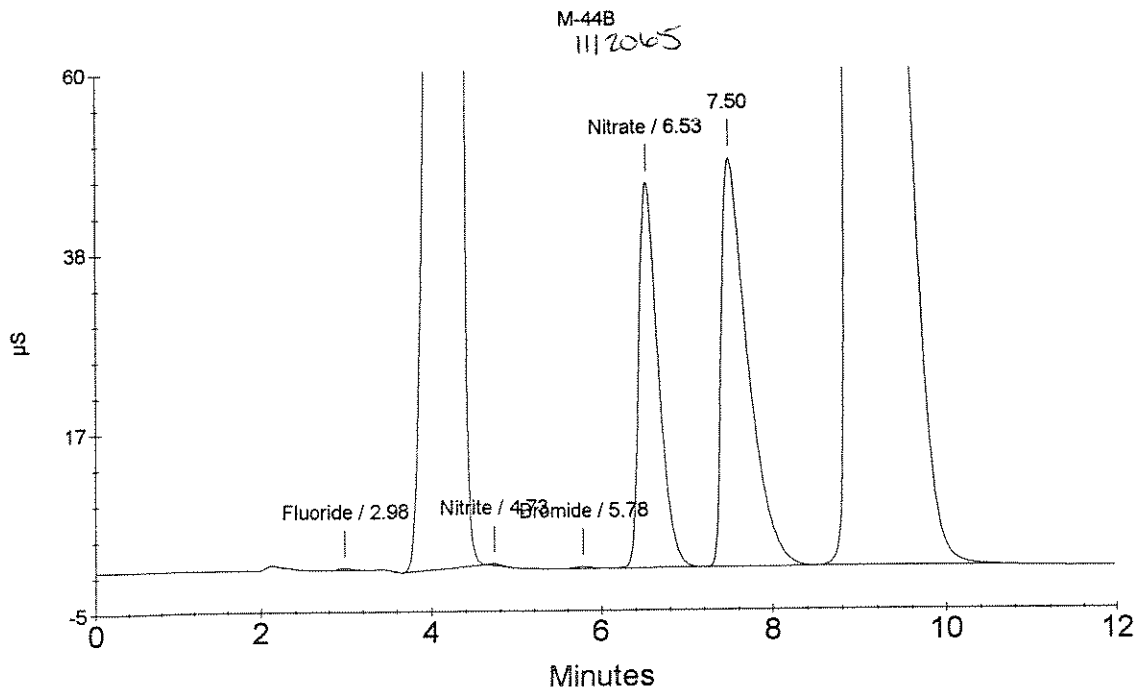
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.98	Fluoride	0.848	28188
2	4.30	Chloride	1851.217	78474301
3	4.73	Nitrite	0.669	17872
4	5.78	Bromide	1.884	30964
5	6.53	Nitrate	72.605	7248851
7	9.02	Sulfate	3717.602	98746507

TC 6/25/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : M-44B 11/20/05
 Data File Name : ... \0625_004.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/25/08 13:41:47

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

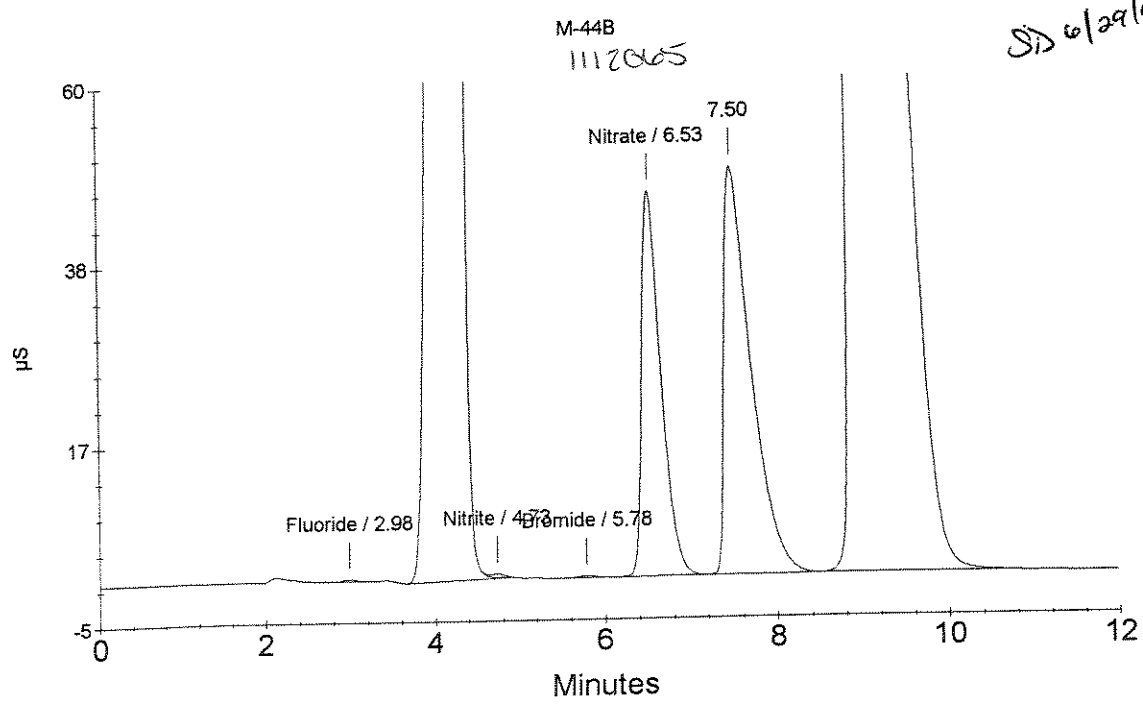
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.98	Fluoride	0.848	28188
2	4.30	Chloride	1400 1854.754	78624260
3	4.73	Nitrite	OK 0.995	45780
4	5.78	Bromide	1.884	30964
5	6.53	Nitrate	1140 72.605	7248851
7	9.02	Sulfate	1400 3717.602	98746507

TC 6/26/08

Baseline Reprocessed
 TC 6/26/08

SD 6/29/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : M-44B 1112005
 Data File Name : ...\\0625_005.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/25/08 13:56:06

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

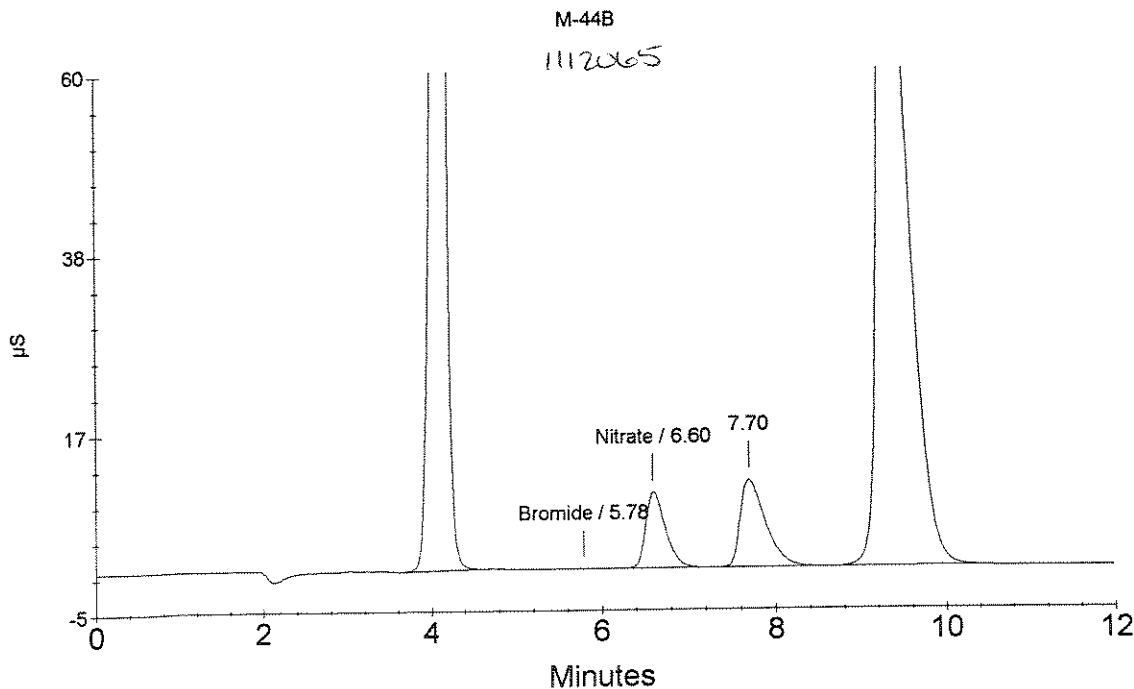
Dilution Factor : 40.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.12	Chloride	1682.219	17806713
1	4.12	Chloride	1682.219	17806713
		Nitrite	<i>use 1/10</i>	
2	5.78	Bromide	1.143	6404
3	6.60	Nitrate	<i>OK</i> 60.029	1436495
5	9.37	Sulfate	<i>1/400</i> 3318.544	22021178

TC 6/26/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : M-44B 1112065
 Data File Name : ...\\0625_006.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/25/08 14:10:22

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

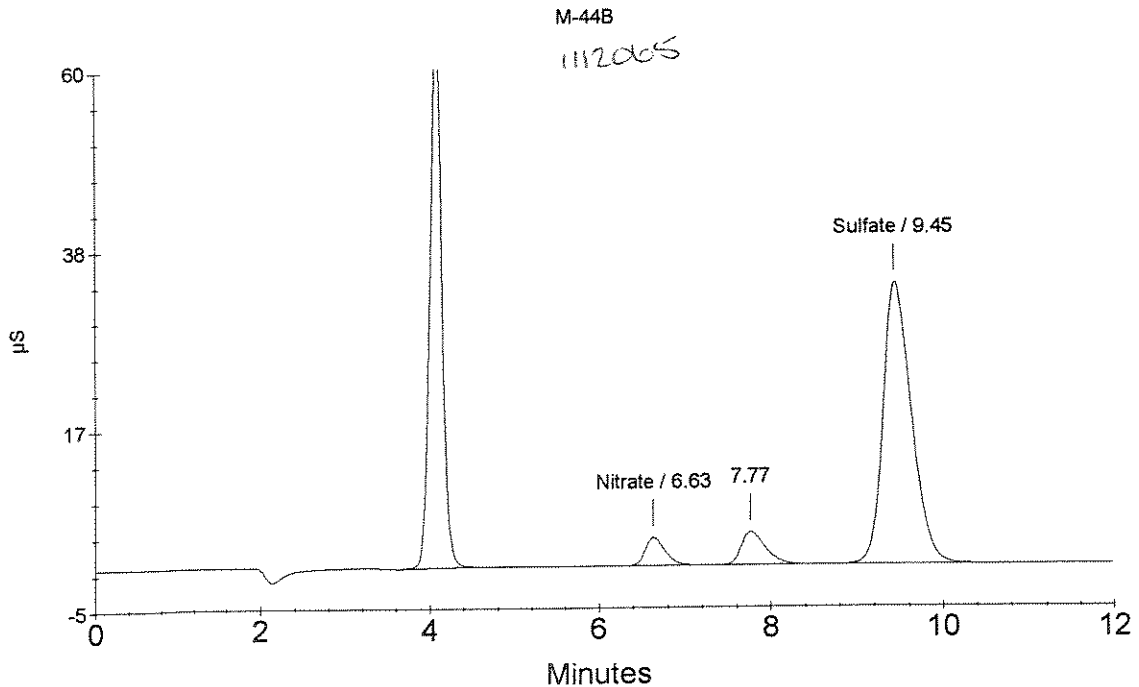
Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	1520.298	6419844
1	4.07	Chloride	1520.298	6419844
		Nitrite	use 1/10	
		Bromide		
2	6.63	Nitrate	use 1/40	528561
4	9.45	Sulfate	1/400	7757904

TC 6/26/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : H-49AB 1112066
 Data File Name : ... \0625_007.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/25/08 14:24:37

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

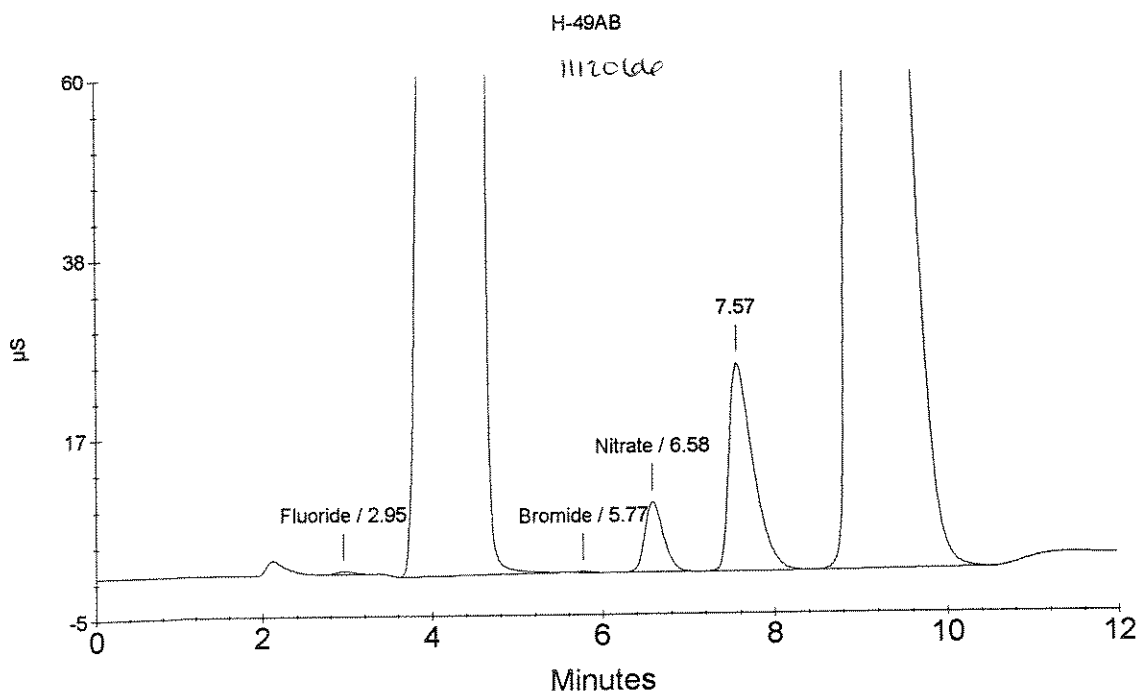
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.95	Fluoride	1.276	53695
2	4.53	Chloride	2251.784	192462549
3	5.77	Nitrite	1.111	19085
4	6.58	Bromide	13.270	1261176
6	9.00	Nitrate	3926.781	104303815
		Sulfate		

TC 6126108



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : H-49AB DUP
Data File Name : ... \0625_008.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/25/08 14:38:54

Old Dup

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

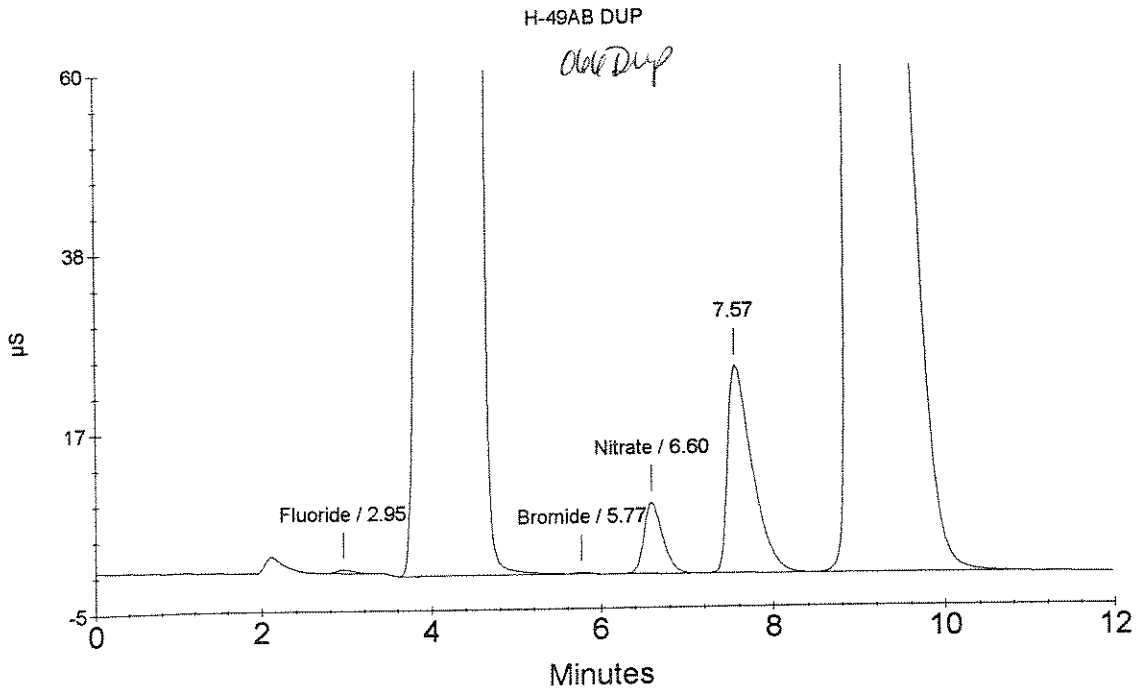
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.95	Fluoride Chloride	1.324	56605
2	4.53	Nitrite	2254.248	192673223
3	5.77	Bromide	1.128	19346
4	6.60	Nitrate	13.473	1281637
6	9.03	Sulfate	3929.311	104371039

11400
1140

OK

11400

TC 6/26/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : H-49AB SPK *old spk*
 Data File Name : ... \0625_009.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/25/08 14:53:09

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

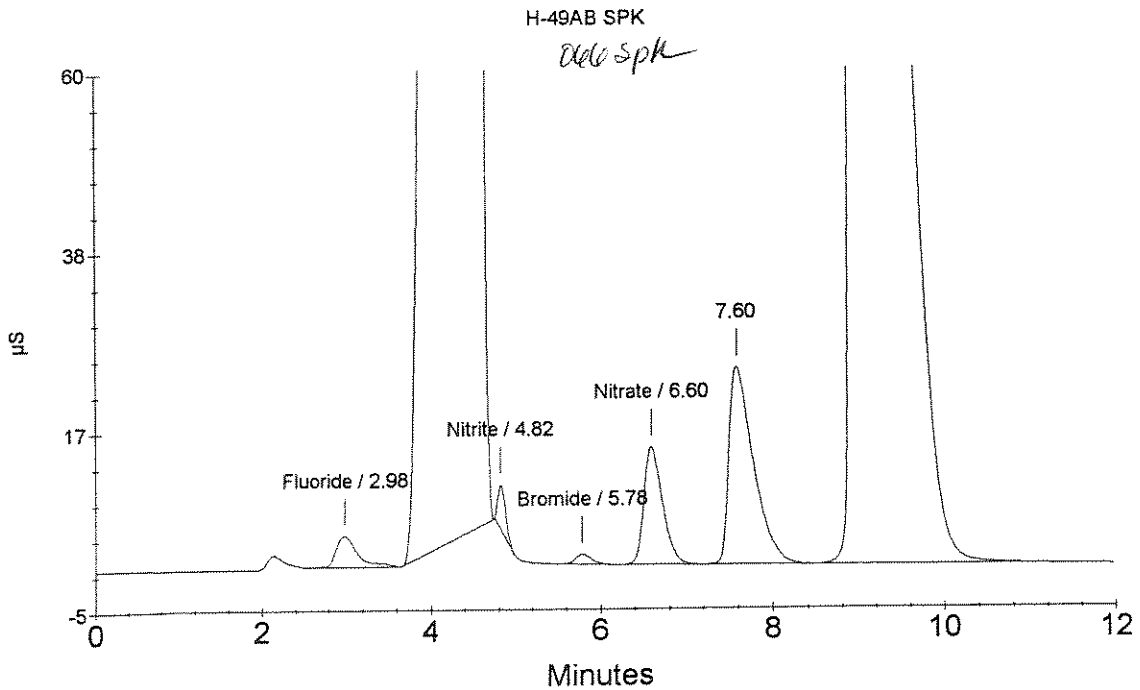
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.98	Fluoride Chloride	11.580	668727
3	4.82	Nitrite	<i>1/400</i> 4.448	341007
4	5.78	Bromide	9.445	147138
5	6.60	Nitrate	<i>OK</i> 22.014	2143560
7	9.07	Sulfate	<i>1/400</i> 3811.172	101232414

$\frac{13.270}{10} \times 100 = 87.4\%$

TC 062608



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : H-49AB *1112066*
Data File Name : ... \0625_010.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/25/08 15:07:25

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

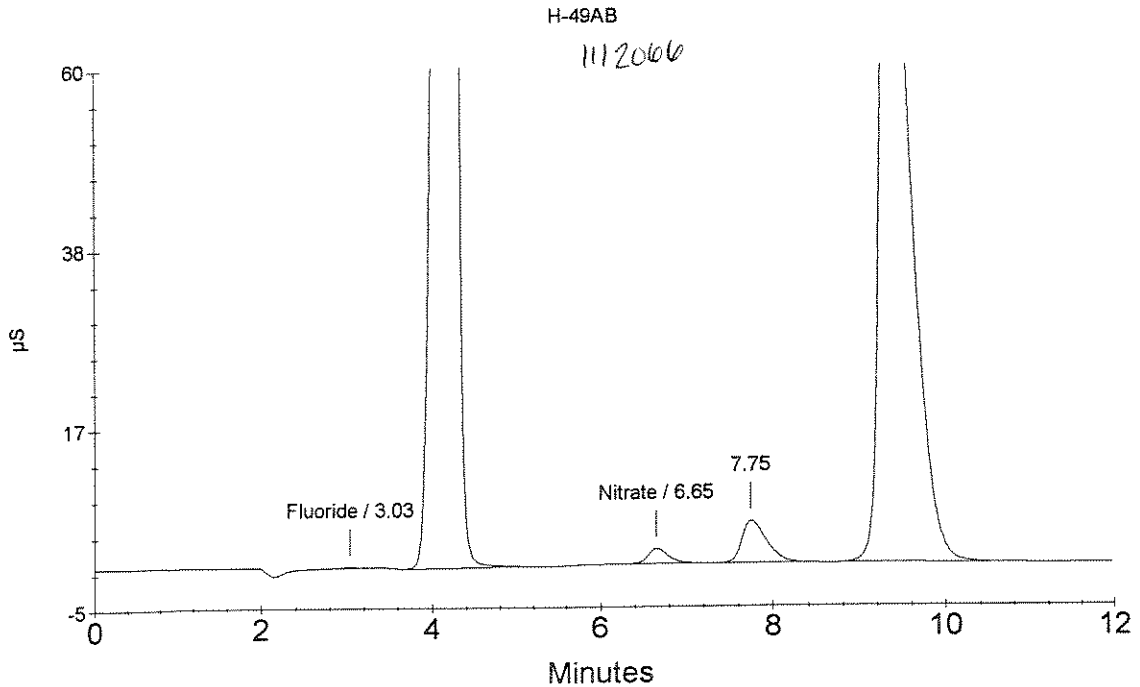
Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	2.405	13455
2	4.25	Chloride Nitrite Bromide	<i>1400</i> <i>OK</i>	4191.086 44403994
3	6.65	Nitrate	<i>use 110</i> 14.154	279139
5	9.40	Sulfate	<i>1400</i> 3454.607	22924883

TC 0626108



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : H-49AB DUP *Old Dup*
 Data File Name : ... \0625_011.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/25/08 15:21:40

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

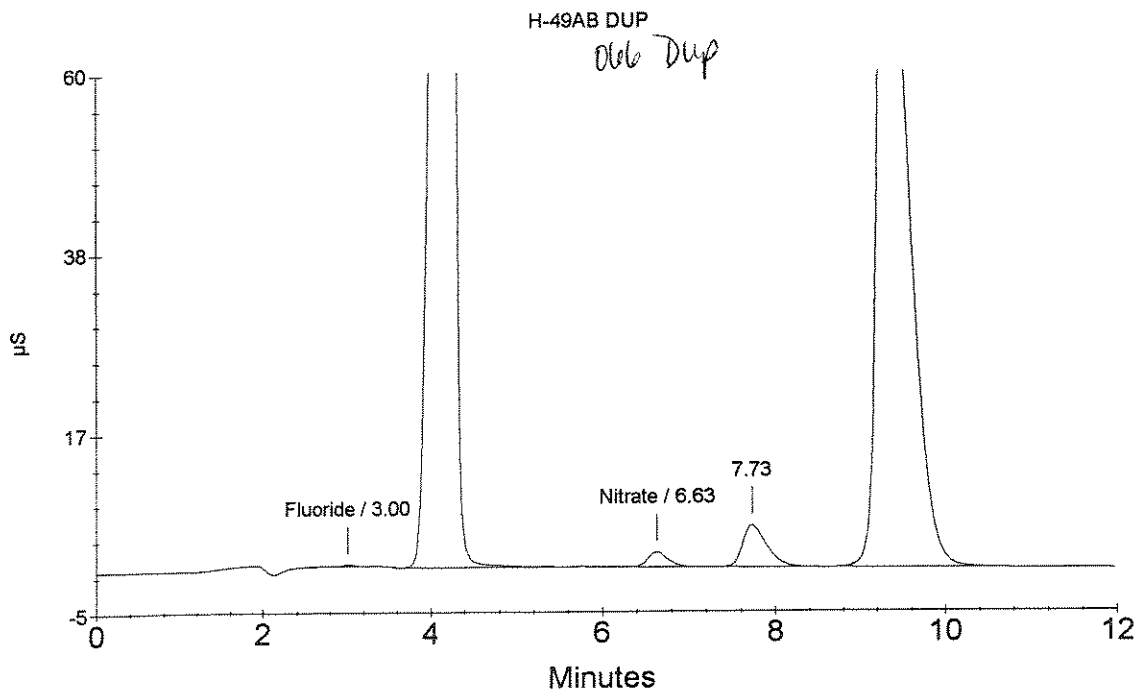
Dilution Factor : 40.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	2.508	14993
2	4.22	Chloride Nitrite Bromide	<i>1/400</i> <i>OK</i> 4201.311	44512391
3	6.63	Nitrate	<i>use 1/10</i> 14.025	275871
5	9.37	Sulfate	<i>1/400</i> 3453.124	22915032

TC 6/26/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : H-49AB SPK *old Spk*
Data File Name : ... \0625_012.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/25/08 15:35:56

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

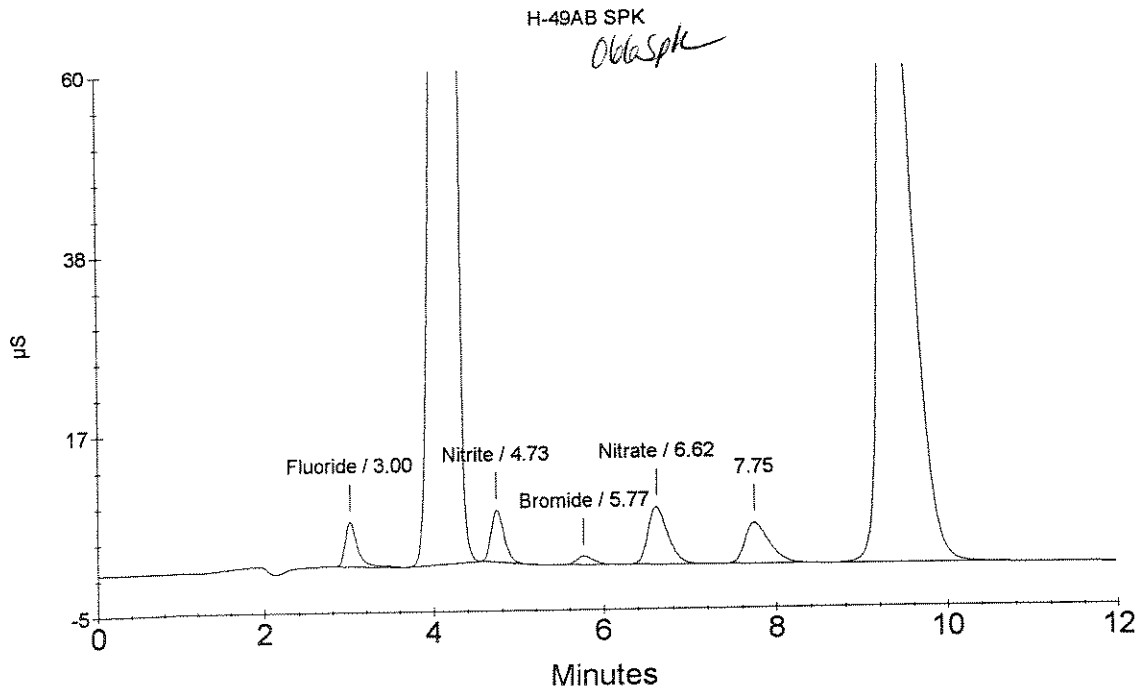
Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	38.372	550130
2	4.23	Chloride	4236.772	44888322
3	4.73	Nitrite	32.585	657128 $\frac{0.00}{40} \times 100 = 81.5\%$
4	5.77	Bromide	34.618	134995
5	6.62	Nitrate	46.187	1087277
7	9.37	Sulfate	3526.499	23402379

TC 6/26/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : H-49AB 1112066
 Data File Name : ...\\0625_013.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/25/08 15:50:16

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

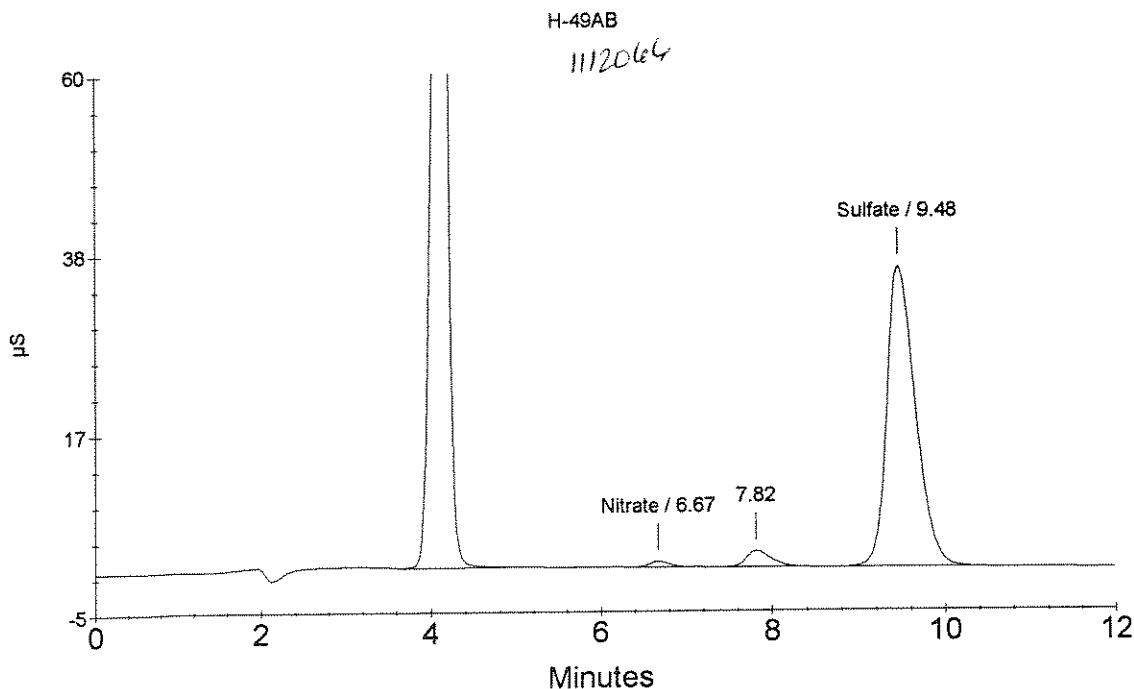
Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.13	Chloride	4078.155	17266497
1	4.13	Chloride	<i>use 1/400</i> 4078.155	17266497
		Nitrite	<i>use 1/40</i>	
		Bromide		
2	6.67	Nitrate	<i>use 1/10</i> 18.164	105353
4	9.48	Sulfate	<i>1/400</i> 3135.390	8309897

TC 6126108



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : H-49AB DUP *old Dup*
 Data File Name : ... \0625_014.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/25/08 16:04:33

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

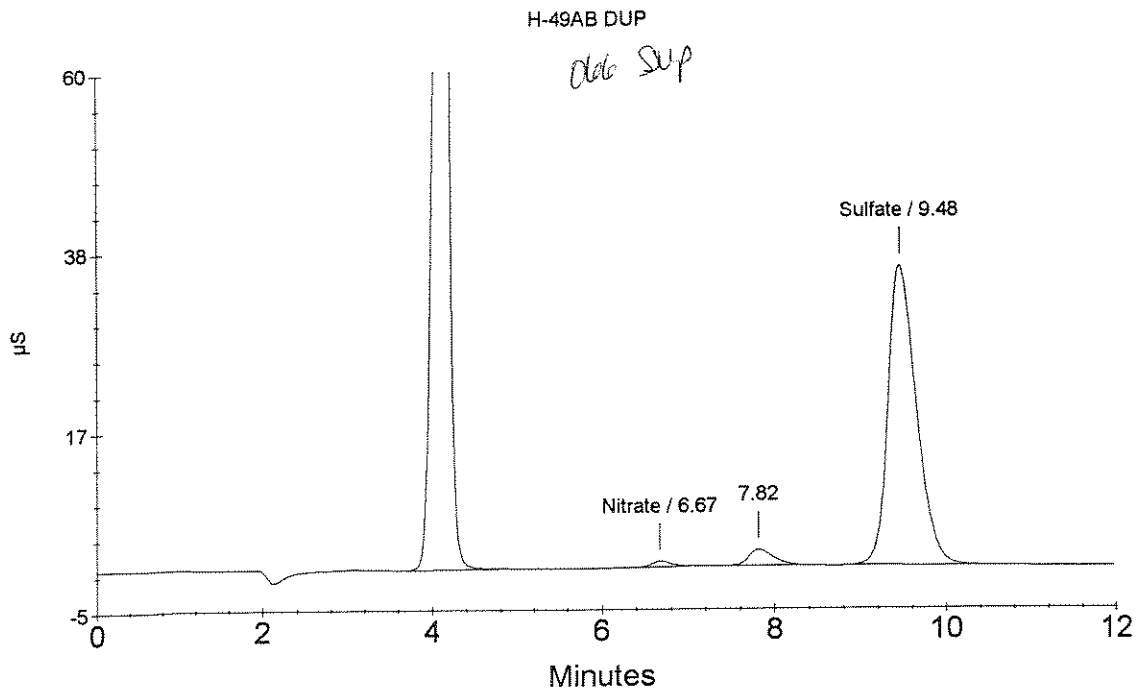
Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.13	Chloride	4049.351	17144354
1	4.13	Chloride <i>1/400</i>	4049.351	17144354
		Nitrite <i>use 1/40</i>		
		Bromide		
2	6.67	Nitrate <i>use 1/10</i>	17.741	101085
4	9.48	Sulfate <i>1/400</i>	3134.206	8306751

TC 6/26/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : H-49AB SPK *066 Spk*
 Data File Name : ... \0625_015.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/25/08 16:18:49

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

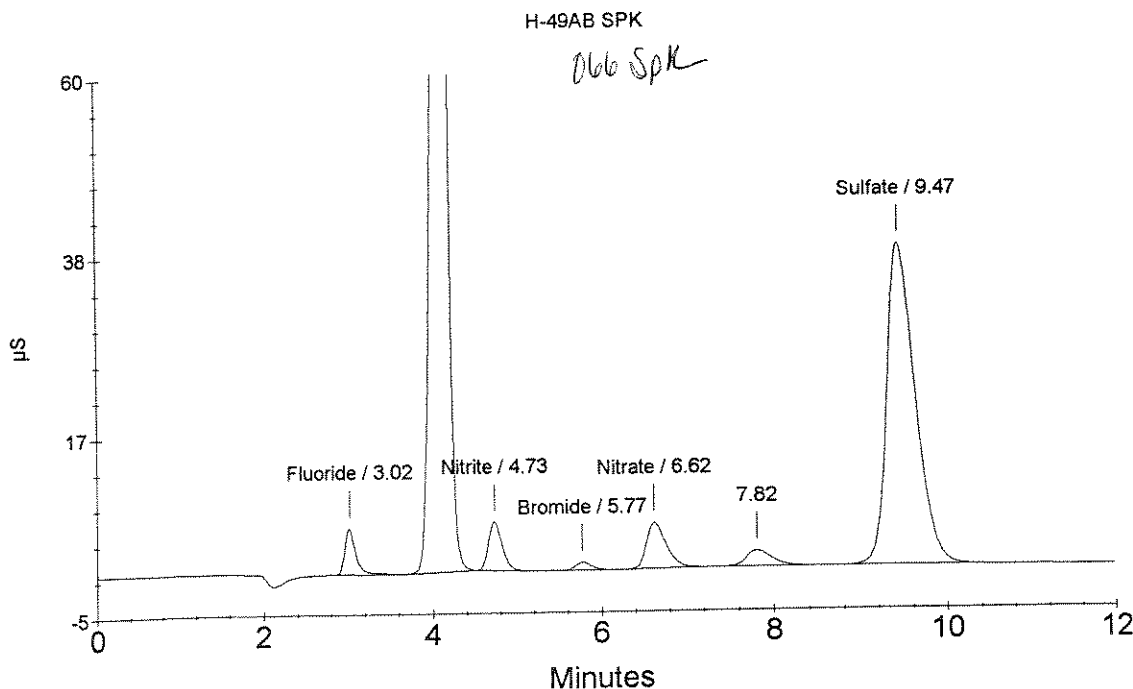
Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	88.619	506489
2	4.12	Chloride	4241.035	17957195
3	4.73	Nitrite <i>use 140</i>	82.476	665799
4	5.77	Bromide	81.518	127271
5	6.62	Nitrate <i>use 110</i>	95.051	881241
7	9.47	Sulfate <i>1140</i>	3352.189	8885871

TC 6126102



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : FB062408 *111 2067*
 Data File Name : ... \0625_016.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/25/08 16:33:04

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

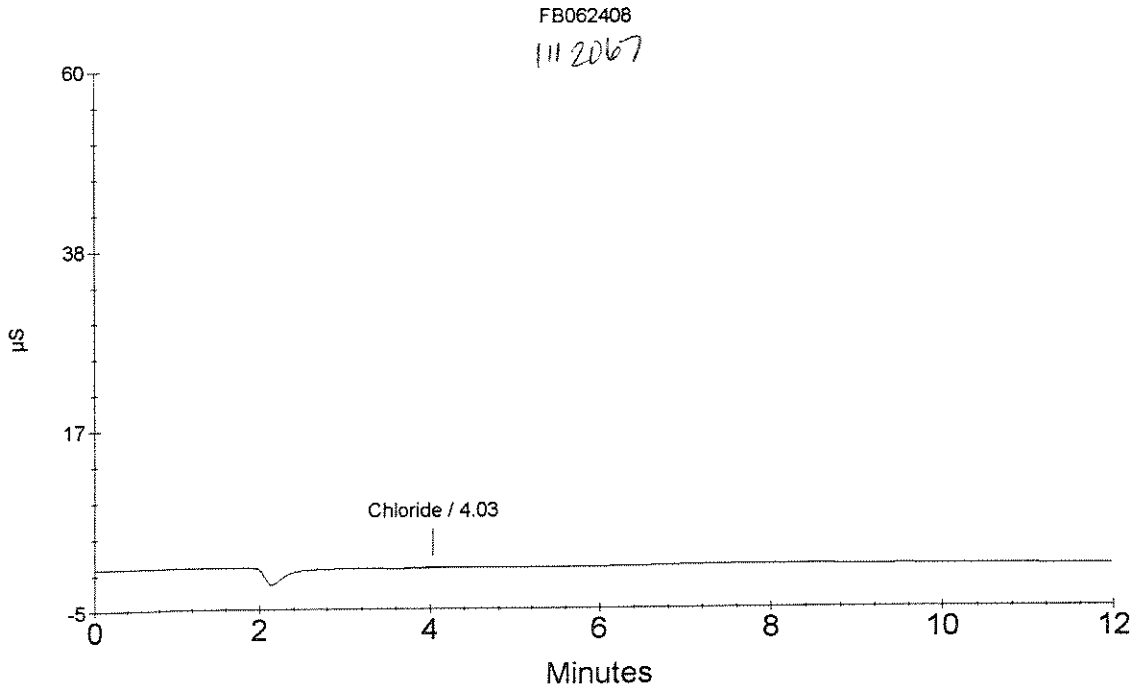
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.03	Chloride	0.127	26633
1	4.03	Chloride	0.127	26633
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
 ↓
TC 6/26/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\0625_017.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/25/08 16:47:20

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

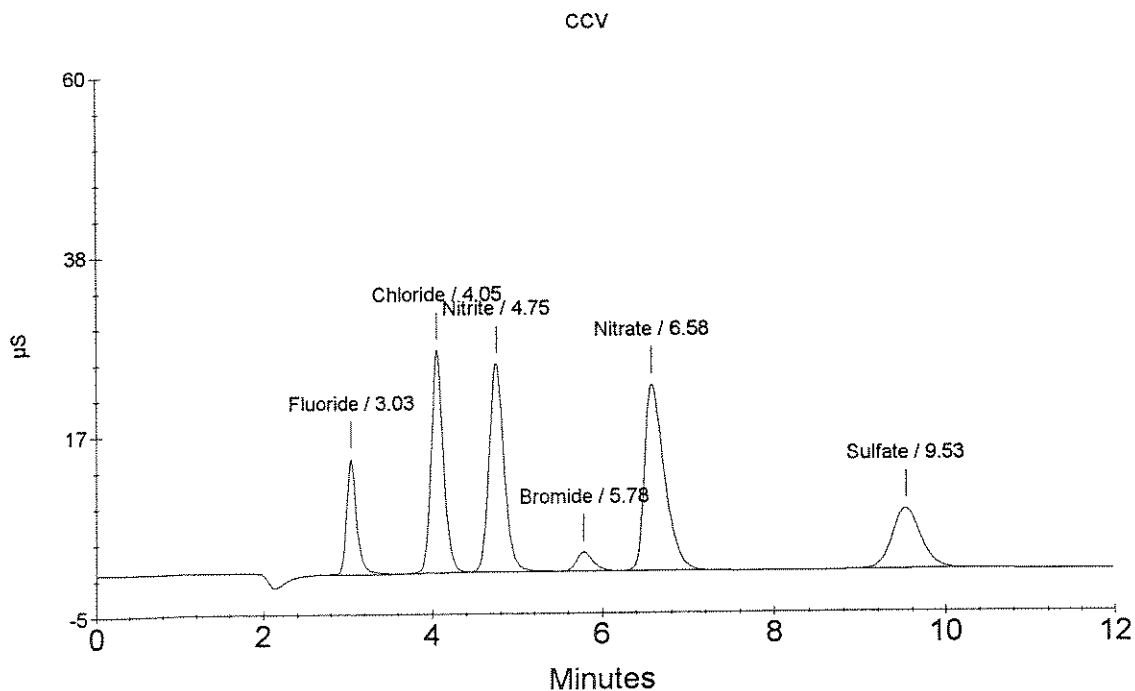
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	1.986	1163019
2	4.05	Chloride	6.308	2648028
3	4.75	Nitrite	3.593	3032466
4	5.78	Bromide	1.925	297771
5	6.58	Nitrate	3.606	3560529
6	9.53	Sulfate	6.471	1699143

OK
↓

TC 6/26/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCB
 Data File Name : ...\\0625_018.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/25/08 17:01:36

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

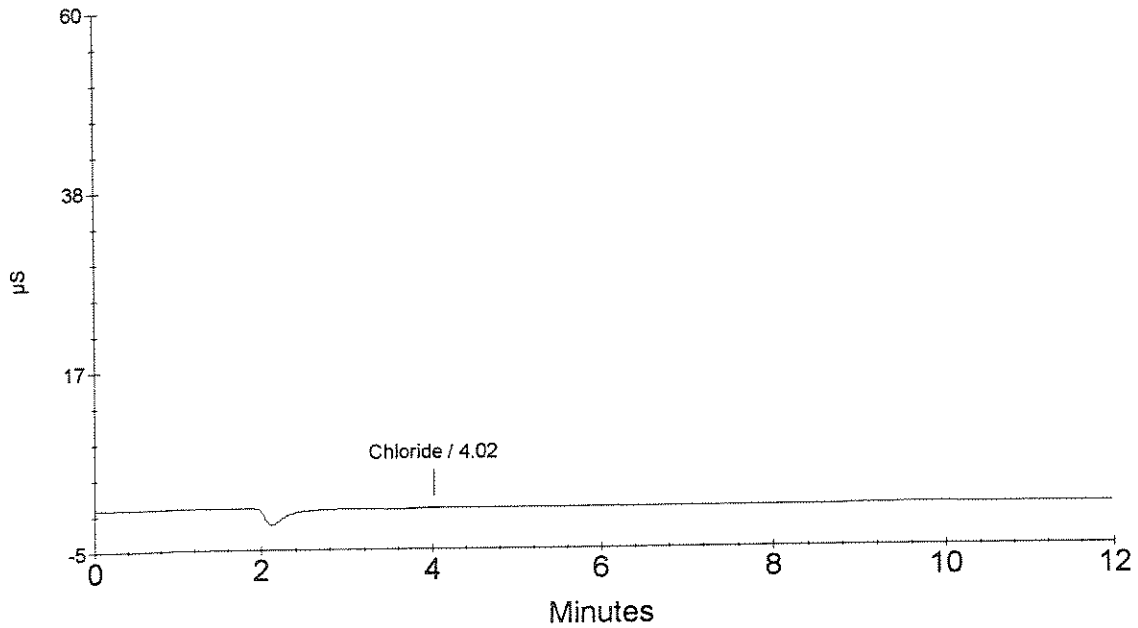
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.02	Chloride	0.128	27429
1	4.02	Chloride	0.128	27429
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
 ↓
 TC 6/26/08

CCB



Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: 06/23/08

Loop size: 100 uL

Analyst: TChrist

Analysis Date: 6/23/08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A	Working Calibration Stds	06/23/08	WC72050I
LCS / MS Intermediate	06/23/08	WC72050A	Working LCS/MS Standard	06/23/08	WC72093C
ICV Intermediate	06/23/08	WC90100A	Working ICV Standard	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A	Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC720050A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC720093C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC720093D
NO3		50			1.0	OMW	7/3/08	E	7/10/08	WC720093E
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

un #: 163045

analyte: NITRITE 9056 NITRITE NITROGEN (NO2) AS N BY ION CHROM

printed: 07/22/08 12:02

<u>YPR</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE</u>		<u>QC</u>	<u>PKG #</u>
				<u>RESULT</u>						<u>ANALYZED</u>			
SMP	R2844650	1112486	WATER	2.00	U	40.0	0.05			06/16/08	07/24/08	RUN	ASPB
HK5		1112762	WATER	3.59		1.0	0.05	99.7		06/26/08			
LK4		1112763	WATER	0.0500	U	1.0	0.05			06/26/08			
PKB		1112764	WATER	0.931		1.0	0.05	93.1		06/26/08			
SMP	R2844650	1112487	WATER	5.48		40.0	0.05			06/26/08		RUN	ASPB
SMP	R2844650	1112488	WATER	5.23		10.0	0.05			06/26/08		RUN	ASPB
SMP	R2844650	1112489	WATER	2.00	U	40.0	0.05			06/26/08		RUN	ASPB

Records printed: 7

Run #: 163044

Analyte: NITRATE 9056 NITRATE NITROGEN (NO3) AS N BY ION CHROM

Printed: 06/27/08 14:01

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE</u>		<u>QC</u>	<u>PKG #</u>
				<u>RESULT</u>						<u>ANALYZED</u>			
ESMP	R2844650	1112486	WATER	0.939		10.0	0.0500			06/26/08		RUN	ASPB
CHK5		1112765	WATER	3.61		1.0	0.0500	100.2		06/26/08			
BLK4		1112766	WATER	0.0500	U	1.0	0.0500			06/26/08			
SPKB		1112767	WATER	0.913		1.0	0.0500	91.3		06/26/08			
ESMP	R2844650	1112487	WATER	1.15		10.0	0.0500			06/26/08		RUN	ASPB
ESMP	R2844650	1112488	WATER	53.2		40.0	0.0500			06/26/08		RUN	ASPB
ESMP	R2844650	1112489	WATER	0.0500	U	1.0	0.0500			06/26/08		RUN	ASPB

Records printed: 7

Line	Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Weight	Int. Std.	Comment
1	CCV	Sample		20080623.met	0626_001.dxd	1	1	1	1	ANALYST: TC
2	CCB	Sample		20080623.met	0626_002.dxd	1	1	1	1	PIPETTES: LUCY, MINE
3	LCS	Sample		20080623.met	0626_003.dxd	1	1	1	1	
4	1111407 R-44521	Sample		20080623.met	0626_004.dxd	1	1	1	1	FCS
5	1111638	Sample		20080623.met	0626_005.dxd	1	1	1	1	FCS
6	1111639	Sample		20080623.met	0626_006.dxd	1	1	1	1	FCS
7	1111639 DUP	Sample		20080623.met	0626_007.dxd	1	1	1	1	FCS
8	1111639 SPK	Sample		20080623.met	0626	1	1	1	1	FCS
9	1111640	Sample		20080623.met	0626_009.dxd	1	1	1	1	FCS
10	1111726	Sample		20080623.met	0626_010.dxd	1	1	1	1	FCS
11	1111727	Sample		20080623.met	0626_011.dxd	1	1	1	1	FCS
12	1111407	Sample		20080623.met	0626_012.dxd	1	10	1	1	CS
13	1112273 R-44661	Sample		20080623.met	0626_013.dxd	1	1	1	1	B
14	1112273	Sample		20080623.met	0626_014.dxd	1	2	1	1	B
15	1112273	Sample		20080623.met	0626_015.dxd	1	4	1	1	B
16	CCV	Sample		20080623.met	0626_016.dxd	1	1	1	1	
17	CCB	Sample		20080623.met	0626_017.dxd	1	1	1	1	
18	1111638	Sample		20080623.met	0626_018.dxd	1	10	1	1	CS
19	1111639	Sample		20080623.met	0626_019.dxd	1	10	1	1	CS
20	1111640	Sample		20080623.met	0626_020.dxd	1	10	1	1	CS
21	1111726	Sample		20080623.met	0626_021.dxd	1	10	1	1	CS
22	1111727	Sample		20080623.met	0626_022.dxd	1	10	1	1	CS
23	1111727 DUP	Sample		20080623.met	0626_023.dxd	1	10	1	1	CS
24	MC-45B 1112486	Sample		20080623.met	0626_024.dxd	1	10	1	1	CS
25	MC-53B 1112487	Sample		20080623.met	0626_025.dxd	1	10	1	1	CNNS
26	MC-97B 1112487	Sample		20080623.met	0626_026.dxd	1	10	1	1	CNNS
27	MC-97B 1112487	Sample		20080623.met	0626_027.dxd	1	10	1	1	CNNS
28	M-23B 1112488	Sample		20080623.met	0626_028.dxd	1	1	1	1	CNNS
29	CCV	Sample		20080623.met	0626_029.dxd	1	1	1	1	
30	CCB	Sample		20080623.met	0626_030.dxd	1	1	1	1	
31	LCS	Sample		20080623.met	0626_031.dxd	1	1	1	1	
32	MC-45B 1112486	Sample		20080623.met	0626_032.dxd	1	40	1	1	CNNS
33	MC-53B 1112487	Sample		20080623.met	0626_033.dxd	1	40	1	1	CNNS
34	MC-97B 1112487	Sample		20080623.met	0626_034.dxd	1	40	1	1	CNNS
35	M-23B 1112488	Sample		20080623.met	0626_035.dxd	1	40	1	1	CNNS
36	MC-45B 1112486	Sample		20080623.met	0626_036.dxd	1	100	1	1	CNNS
37	MC-53B 1112487	Sample		20080623.met	0626_037.dxd	1	100	1	1	CNNS
38	MC-97B 1112487	Sample		20080623.met	0626_038.dxd	1	100	1	1	CNNS
39	M-23B 1112488	Sample		20080623.met	0626_039.dxd	1	100	1	1	CNNS
40	1111726 DUP	Sample		20080623.met	0626_040.dxd	1	10	1	1	CS
41	1111726 SPK	Sample		20080623.met	06226_041.dxd	1	10	1	1	CS
42	CCV	Sample		20080623.met	06226_042.dxd	1	1	1	1	
43	CCB	Sample		20080623.met	06226_043.dxd	1	1	1	1	
44	END	Sample		shutdown.met	06226	1	1	1	1	

works updated

Default Method Path: J:\ACQU\DATA\IC\METHOD.AC\IC#4
 Default Data Path: J:\ACQU\DATA\IC\DATA\IC#4\062608
 Comment:

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Sample Name : CCV
 Data File Name : ... \0626_001.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 09:27:13

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : ANALYST: TC

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

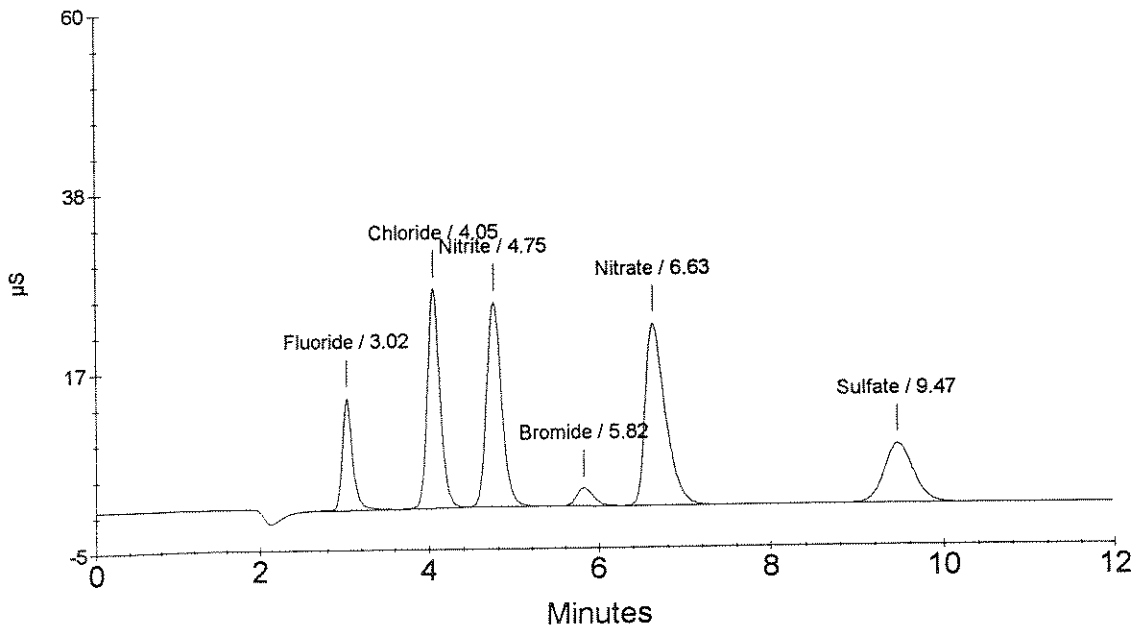
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	1.980	1159581
2	4.05	Chloride	6.316	2651120
3	4.75	Nitrite	3.589	3028708
4	5.82	Bromide	1.936	299422
5	6.63	Nitrate	3.606	3561448
6	9.47	Sulfate	6.456	1695273

OK
↓

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CCV



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Sample Name : CCB
Data File Name : ...\\0626_002.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 09:41:34

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : PIPETTES: LUCY, MINE

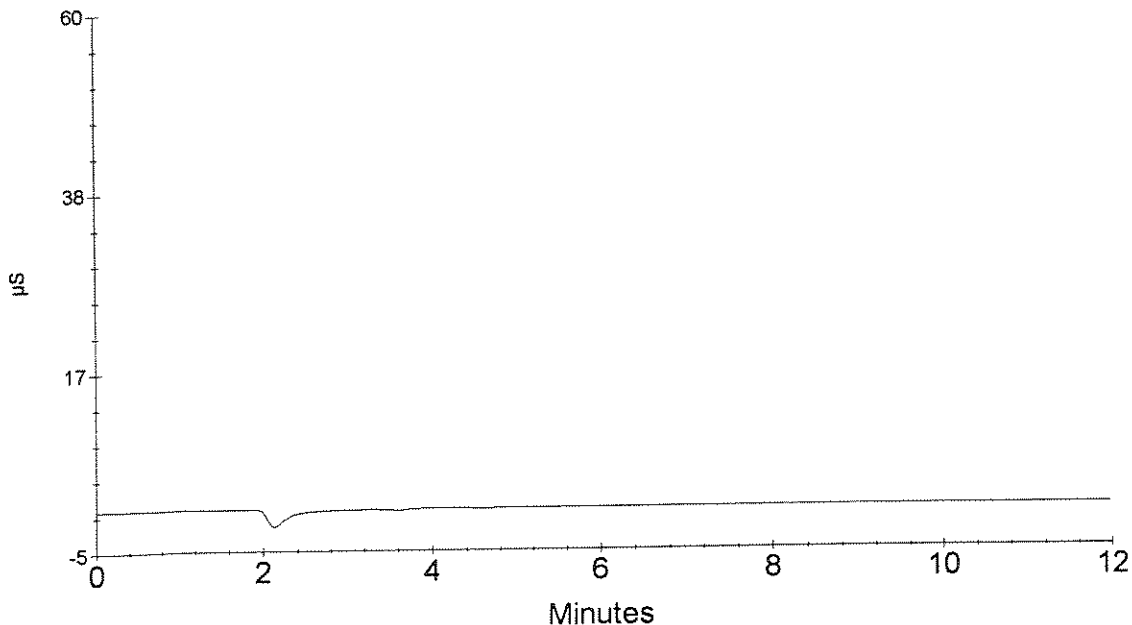
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK
↓
TC 6/27/08

CCB



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Sample Name : LCS
Data File Name : ...\\0626_003.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 09:55:56

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

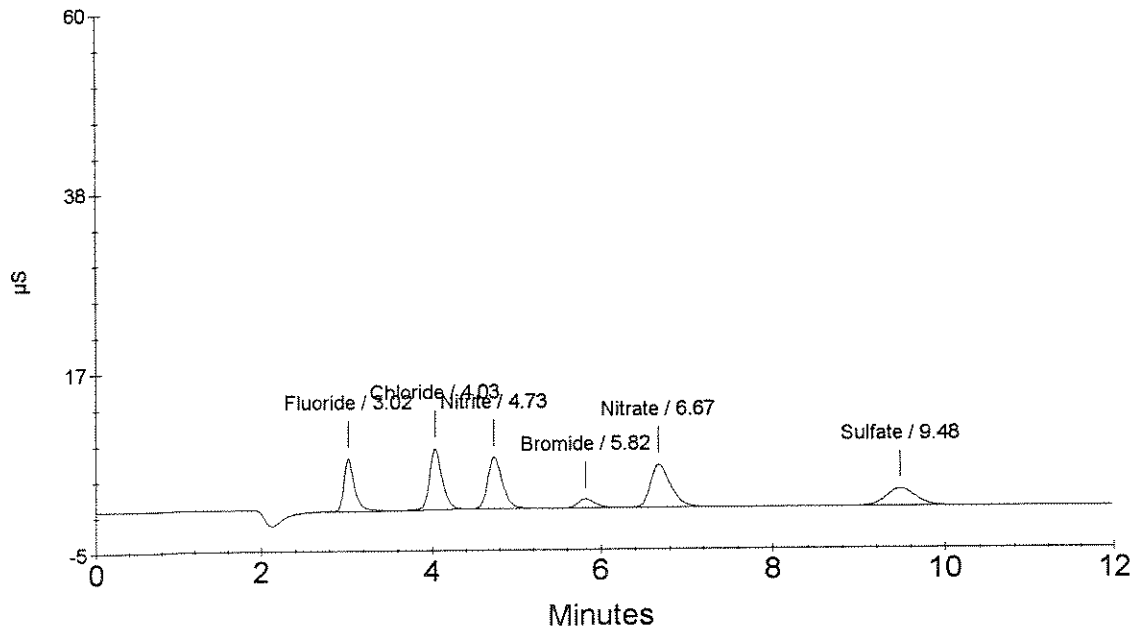
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	0.975	559371
2	4.03	Chloride	1.891	774720
3	4.73	Nitrite	0.931	756801
4	5.82	Bromide	0.954	148565
5	6.67	Nitrate	0.913	843138
6	9.48	Sulfate	1.943	496138

OK
↓

TC 6/27/08

LCS



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Sample Name : 1111407 R-44521
Data File Name : ...\\0626_004.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 10:28:38

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

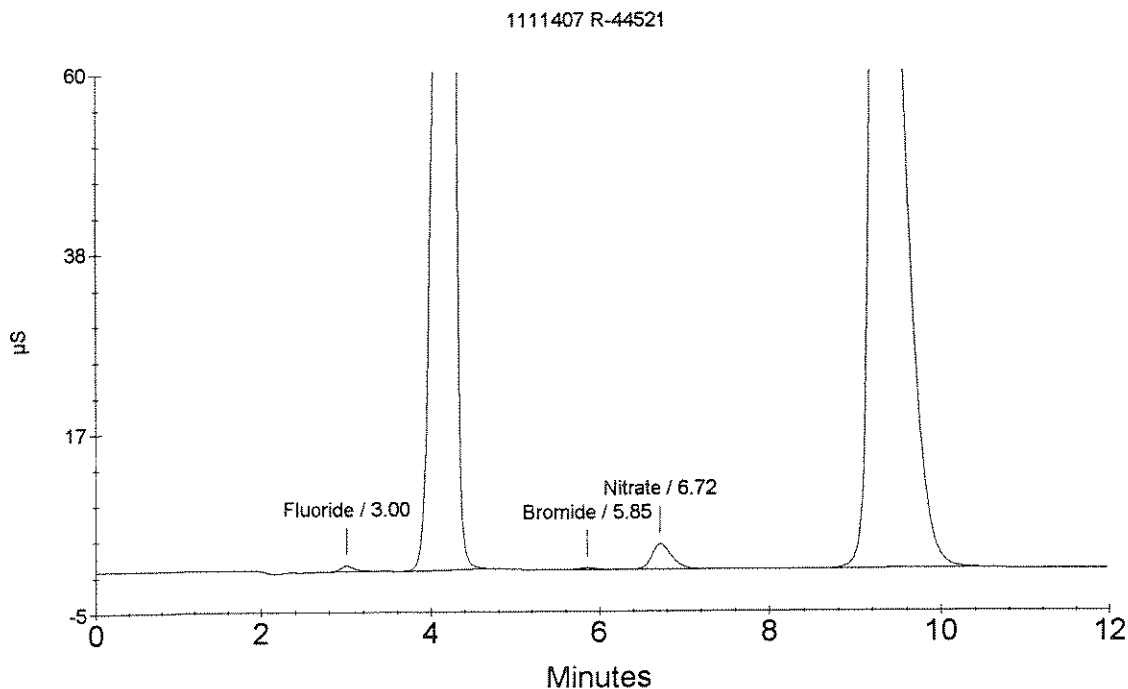
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : FCS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	0.158	71815
2	4.22	Chloride Nitrite	74.538	31580791
3	5.85	Bromide	0.150	24994
4	6.72	Nitrate	0.563	489874
5	9.33	Sulfate	114.762	30469231

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Sample Name : 1111638
Data File Name : ...\\0626_005.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 10:42:58

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : FCS

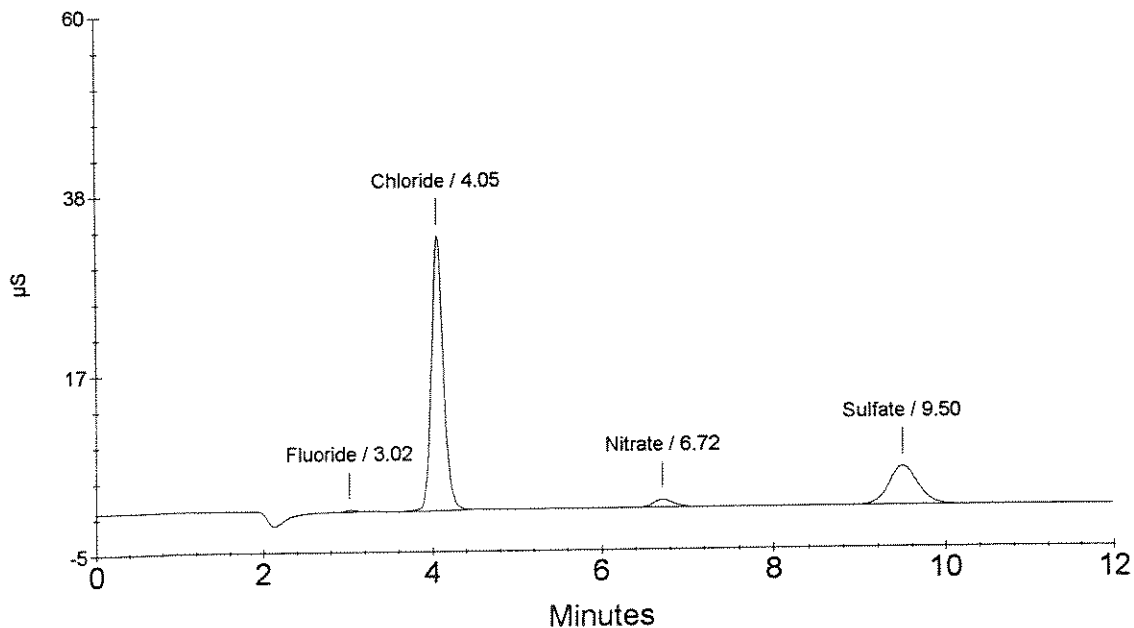
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	OK 0.066	16797
2	4.05	Chloride Nitrite Bromide	OK 7.784	3273664
3	6.72	Nitrate	0.224	148286
4	9.50	Sulfate	OK 4.216	1100179

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1111638



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Sample Name : 1111639
 Data File Name : ...\\0626_006.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/26/08 10:57:14

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

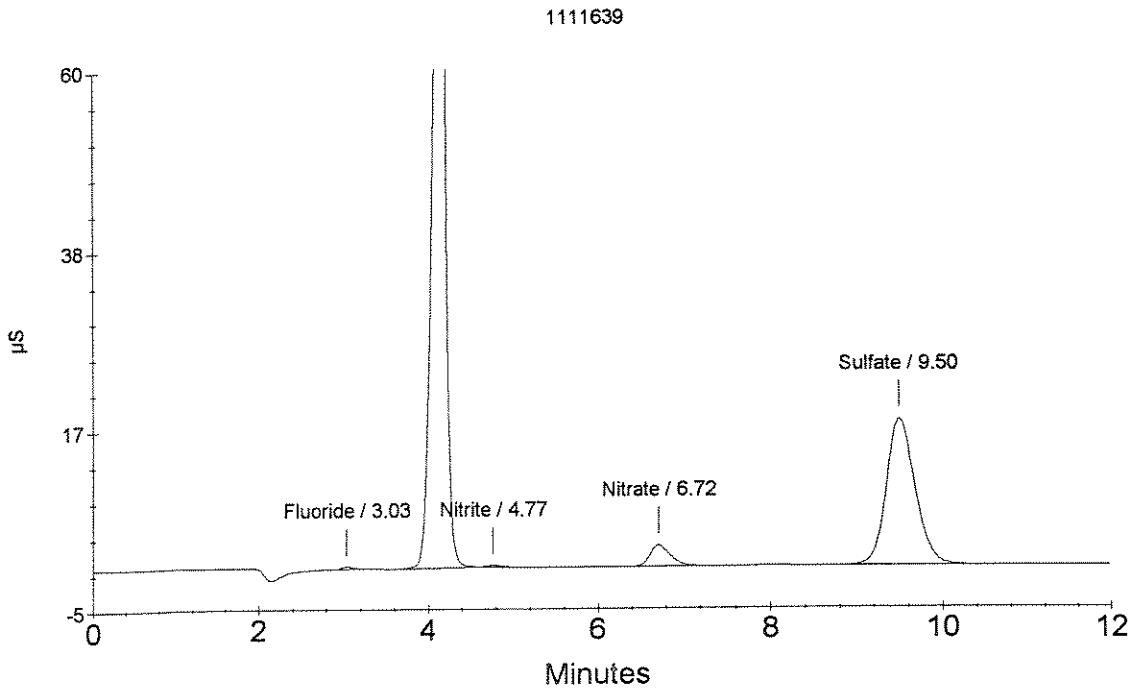
Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : FCS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	0.077	23363
2	4.12	Chloride	24.578	10395448
3	4.77	Nitrite Bromide	0.075	24438
4	6.72	Nitrate	0.486	412467
5	9.50	Sulfate	15.268	4036184

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Sample Name : 1111639 DUP
 Data File Name : ... \0626_007.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 11:11:30

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

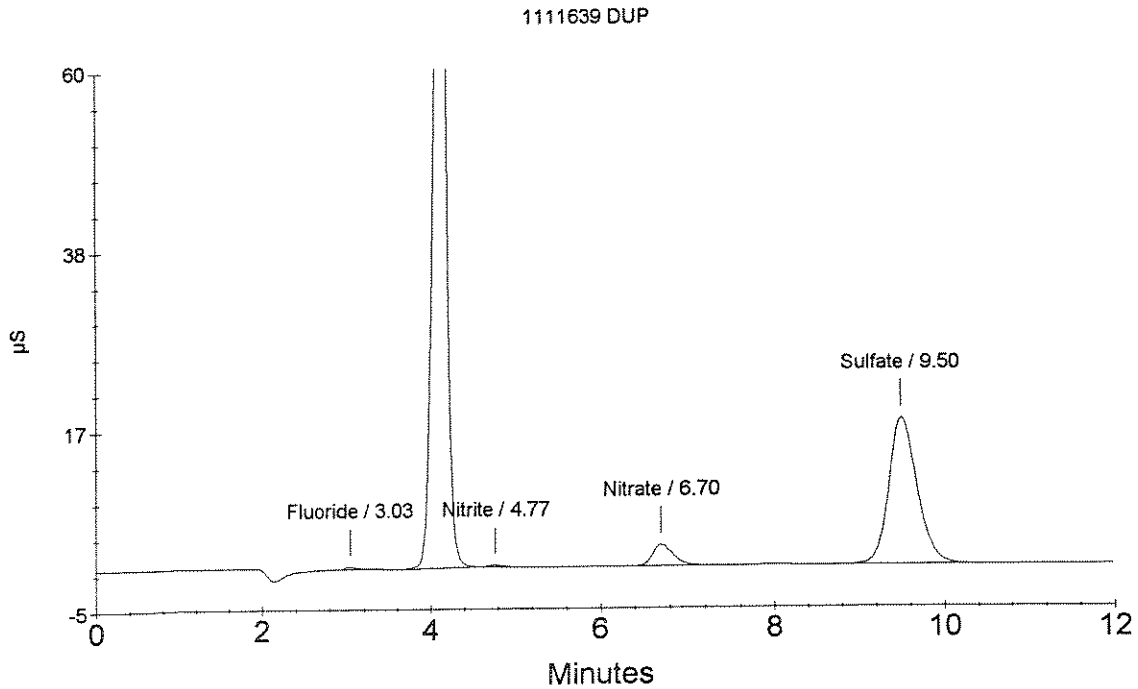
Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : FCS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	0.077	23417
2	4.12	Chloride	24.612	10409910
3	4.77	Nitrite Bromide	0.074	23917
4	6.70	Nitrate	0.485	411518
5	9.50	Sulfate	15.281	4039796

TE 6/27/08



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Sample Name : 1111639 SPK
Data File Name : ...\\0626_008.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 11:25:47

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : FCS

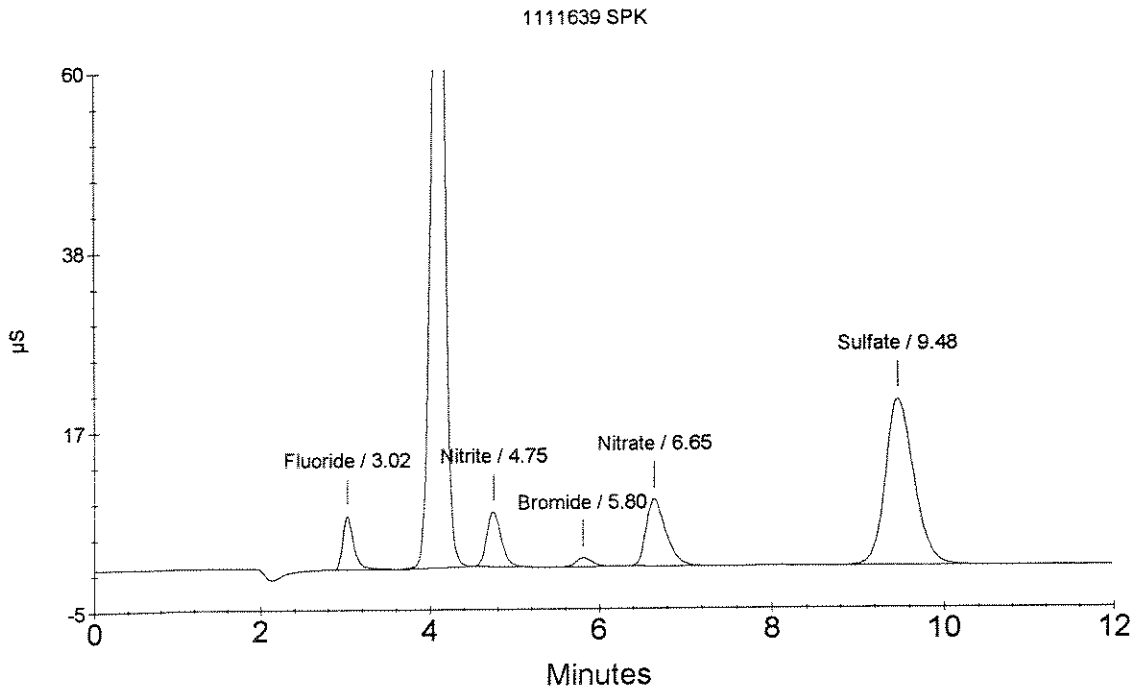
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	OK 0.995	571714
2	4.10	Chloride	1/10 26.526	11221236
3	4.75	Nitrite	0.959	780330
4	5.80	Bromide	0.897	139913
5	6.65	Nitrate	1.358	1292951
6	9.48	Sulfate	1/10 17.326	4582947

$\frac{0.995}{1.00} \times 100 = 99.5\%$

TC 6/27/08



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Sample Name : 1111640
 Data File Name : ... \0626_009.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 11:40:03

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : FCS

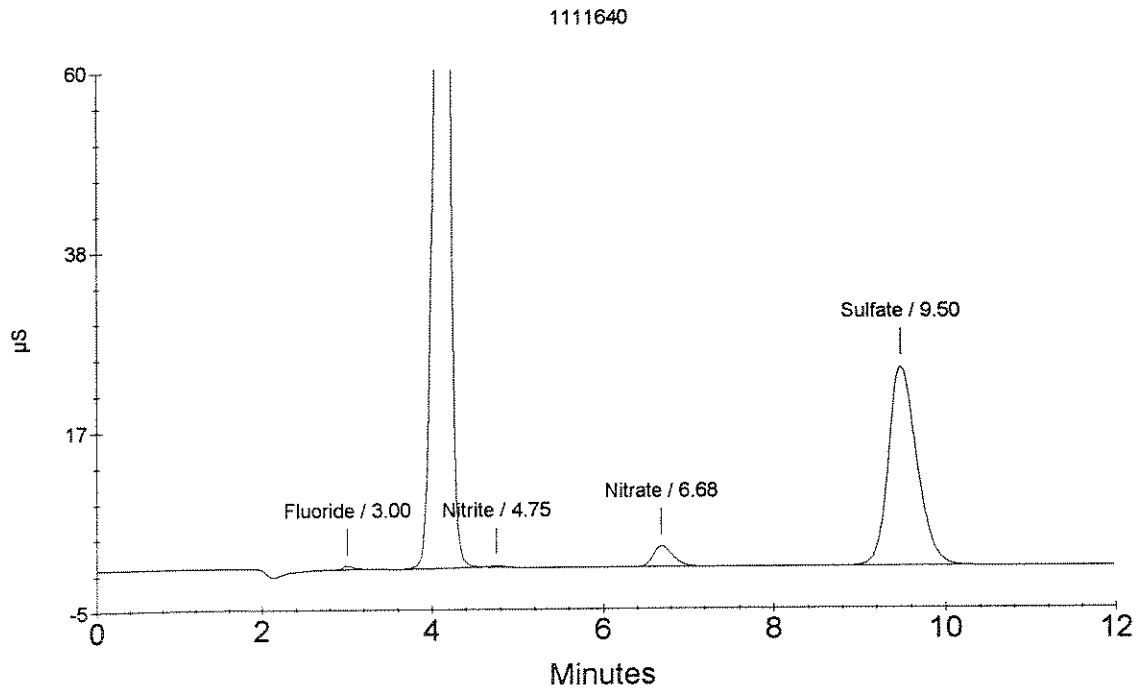
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	0.098	36151
2	4.15	Chloride	38.914	16474718
3	4.75	Nitrite Bromide	0.065	16703
4	6.68	Nitrate	0.477	403544
5	9.50	Sulfate	20.636	5462433

OK
1/10
1/10

TE 6/27/08



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Sample Name : 1111726
 Data File Name : ... \0626_010.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 11:54:18

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

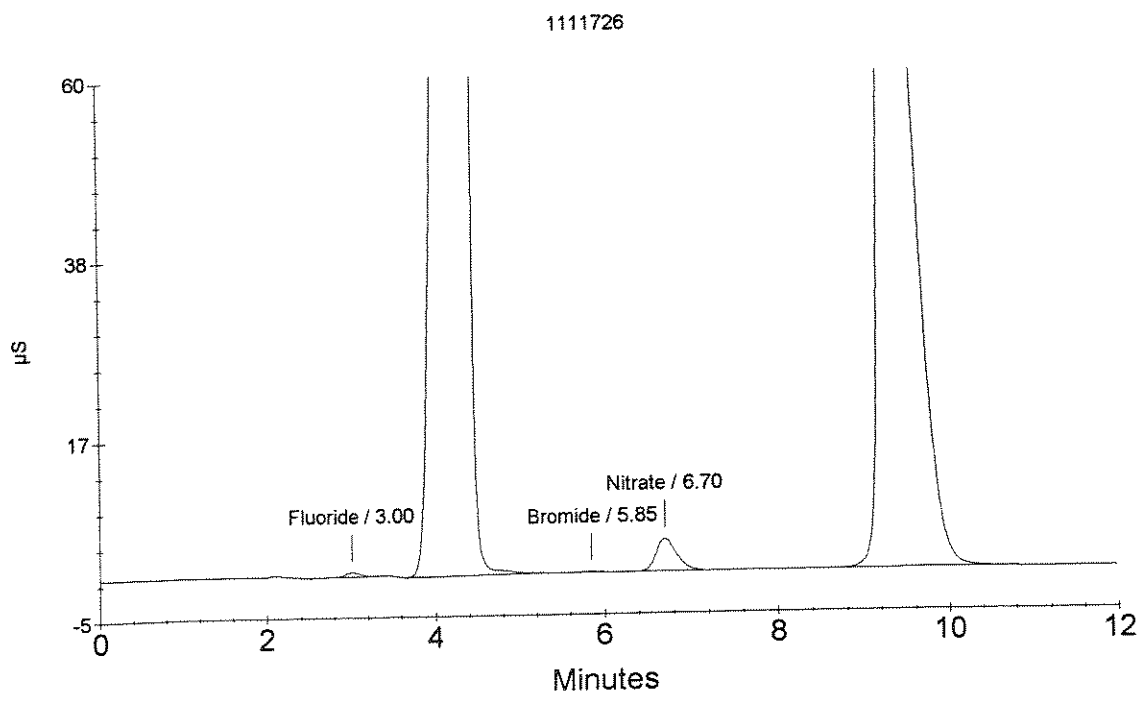
Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : FCS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	0.138	60145
2	4.35	Chloride Nitrite	175.638	74452728
3	5.85	Bromide	0.083	14738
4	6.70	Nitrate	0.702	630159
5	9.37	Sulfate	116.490	30928291

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Sample Name : 1111727
 Data File Name : ... \0626_011.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 12:08:35

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

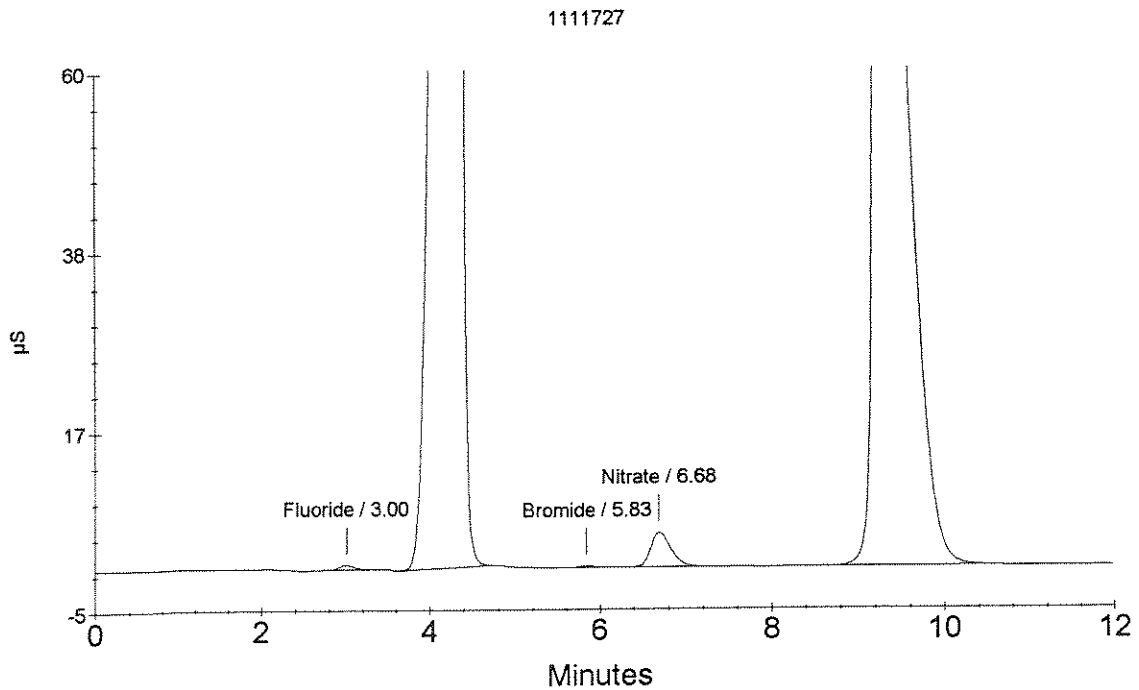
Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : FCS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	0.138	60063
2	4.32	Chloride Nitrite	148.005	62734966
3	5.83	Bromide	0.115	19725
4	6.68	Nitrate	0.741	669370
5	9.35	Sulfate	122.361	32487894

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Sample Name : 1111407
Data File Name : ... \0626_012.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/26/08 12:22:56

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

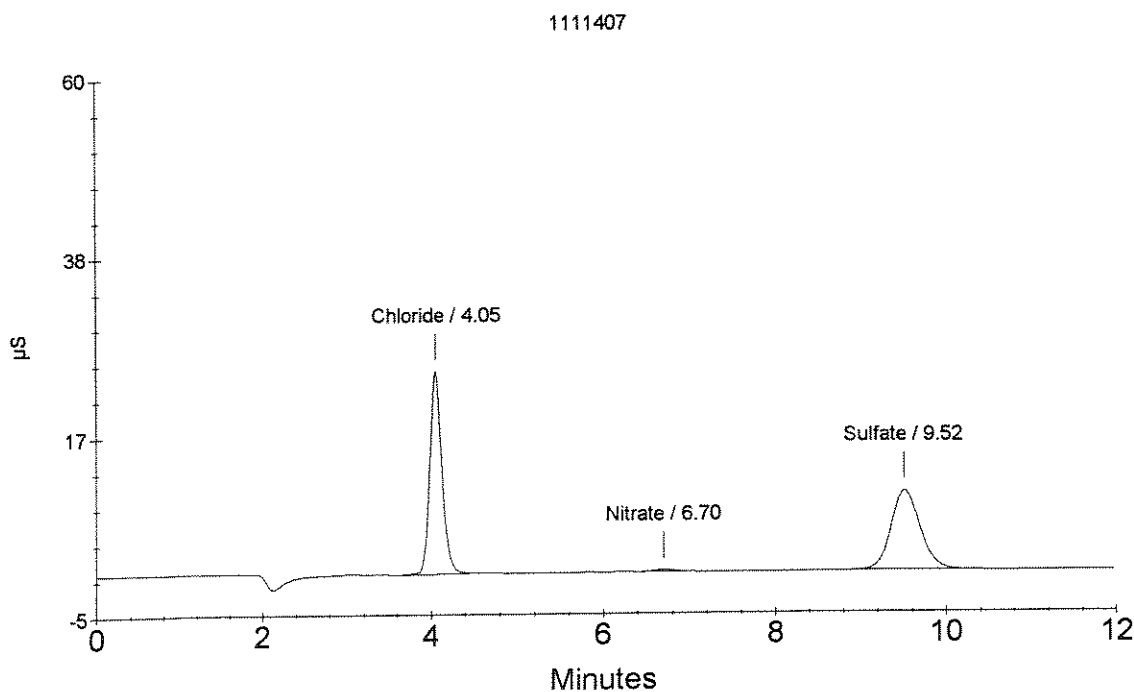
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	58.006	2432719
1	4.05	Chloride Nitrite Bromide	OK 58.006	2432719
2	6.70	Nitrate	1.159	38989
3	9.52	Sulfate	OK 85.285	2245814

TC 6/27/08



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Sample Name : 1112273 R-44661
Data File Name : ...\\0626_013.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 12:37:17

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : B

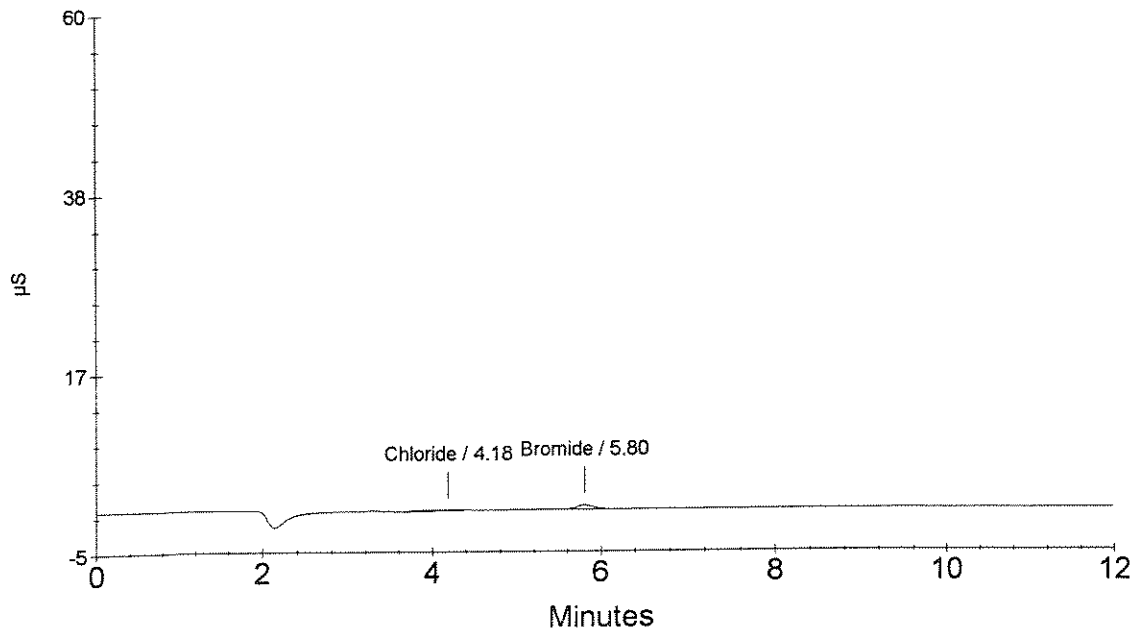
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.18	Chloride	0.142	33026
1	4.18	Chloride	0.142	33026
		Nitrite		
2	5.80	Bromide	0.454	71808
		Nitrate		
		Sulfate		

TC 6/27/08

1112273 R-44661



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : 1112273
Data File Name : ... \0626_014.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/26/08 12:51:33

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

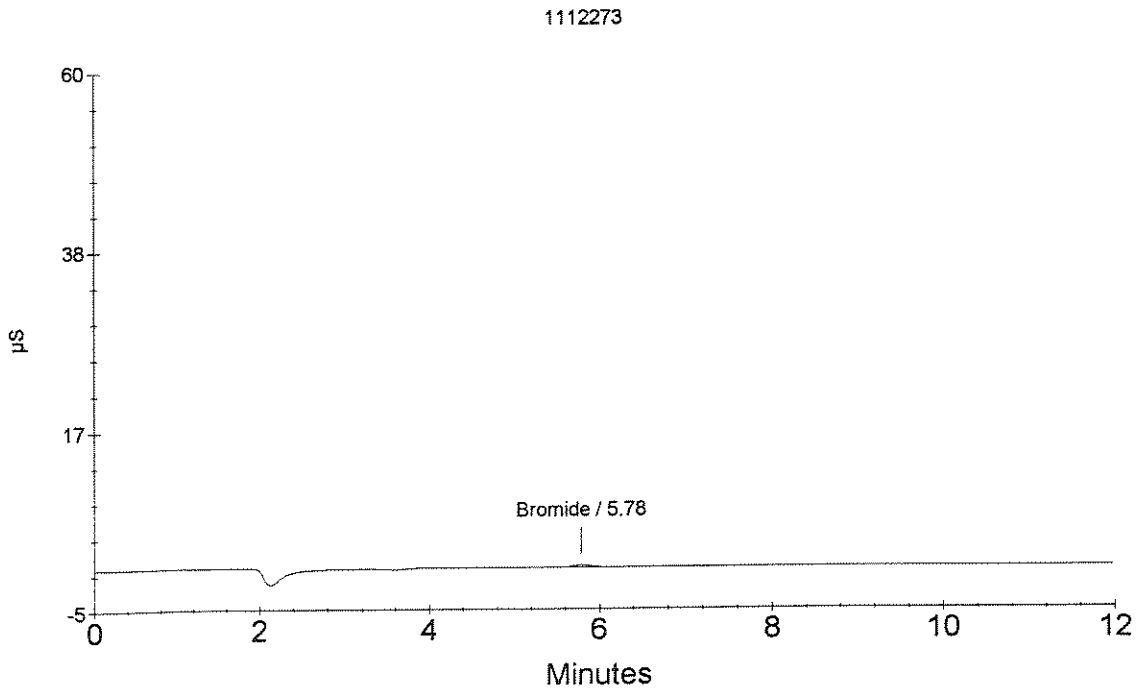
Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	5.78	Bromide Chloride Nitrite	0.439	35717
1	5.78	Bromide Nitrate Sulfate	<i>USE STR</i> 0.439	35717

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 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1112273
 Data File Name : ...\\0626_015.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/26/08 13:05:49

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

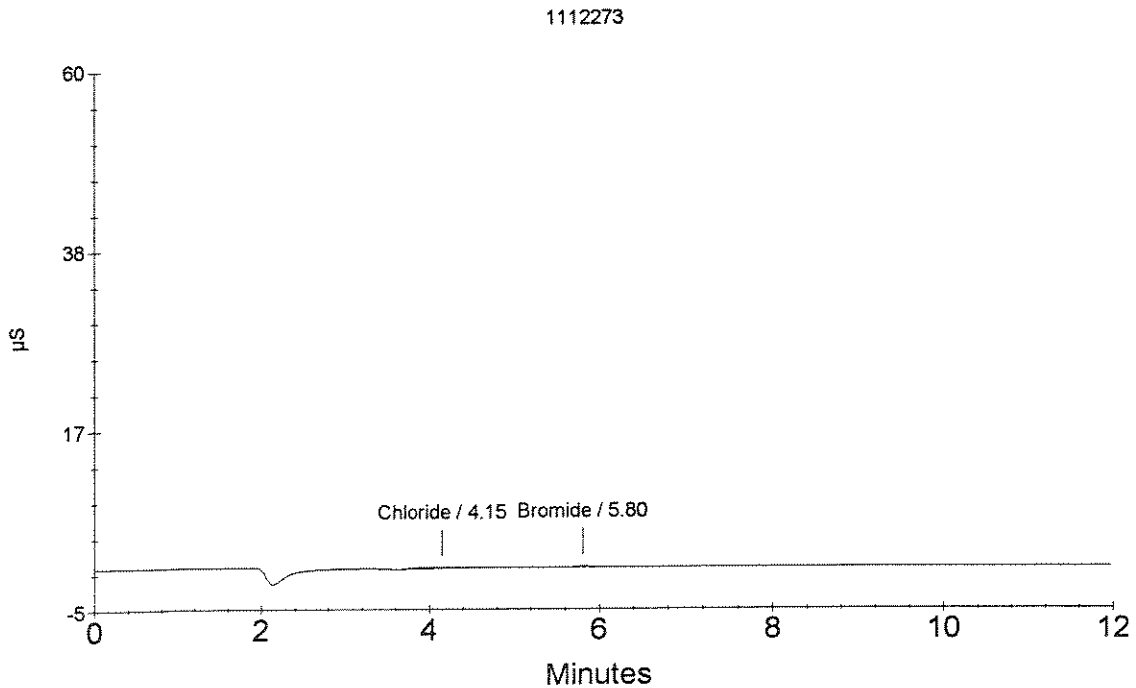
Dilution Factor : 4.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.15	Chloride	0.586	35128
1	4.15	Chloride	0.586	35128
		Nitrite		
2	5.80	Bromide <i>use STR</i>	0.427	18407
		Nitrate		
		Sulfate		

TL 6/27/08



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Sample Name : CCV
Data File Name : ...\\0626_016.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 13:20:04

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

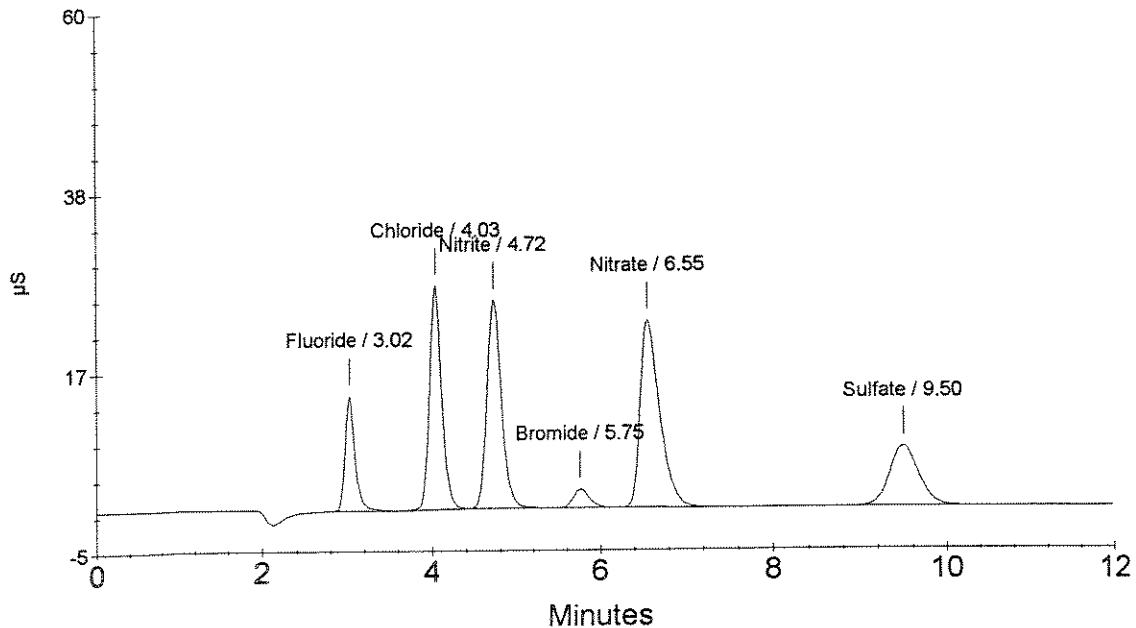
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	1.959	1146506
2	4.03	Chloride	6.310	2648875
3	4.72	Nitrite	3.578	3019565
4	5.75	Bromide	1.918	296744
5	6.55	Nitrate	3.598	3553217
6	9.50	Sulfate	6.400	1680398

OK
↓

TC 6/27/08

CCV



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCB
 Data File Name : ...\\0626_017.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/26/08 13:34:24

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

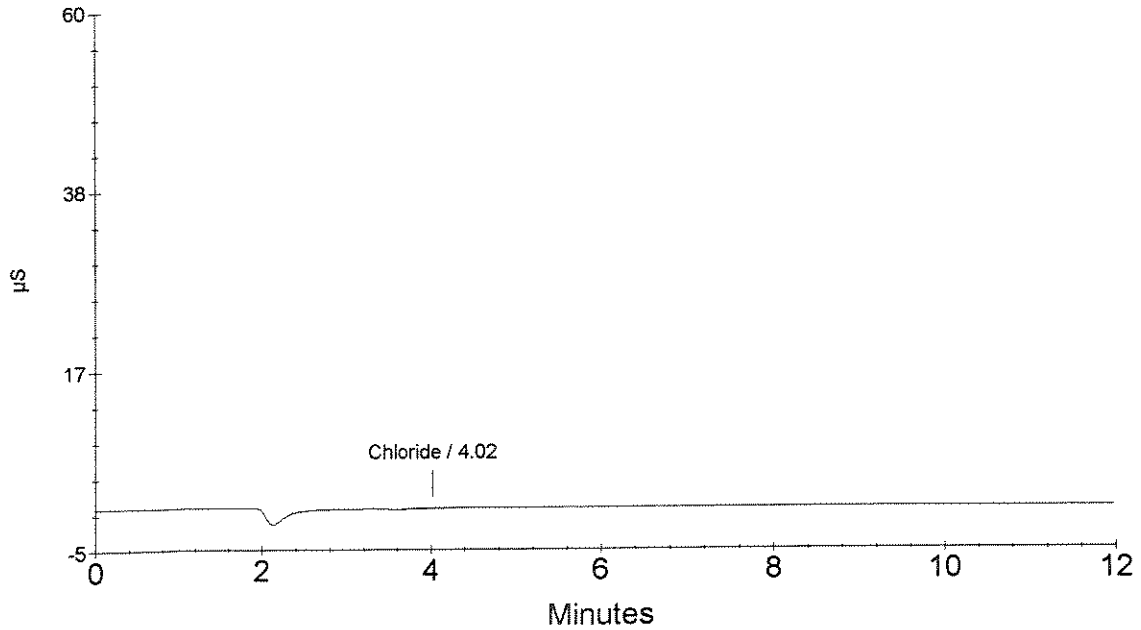
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.02	Chloride	0.125	25972
1	4.02	Chloride	0.125	25972
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
↓

TC 6/27/08

CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111638
Data File Name : ...\\0626_018.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 13:48:40

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

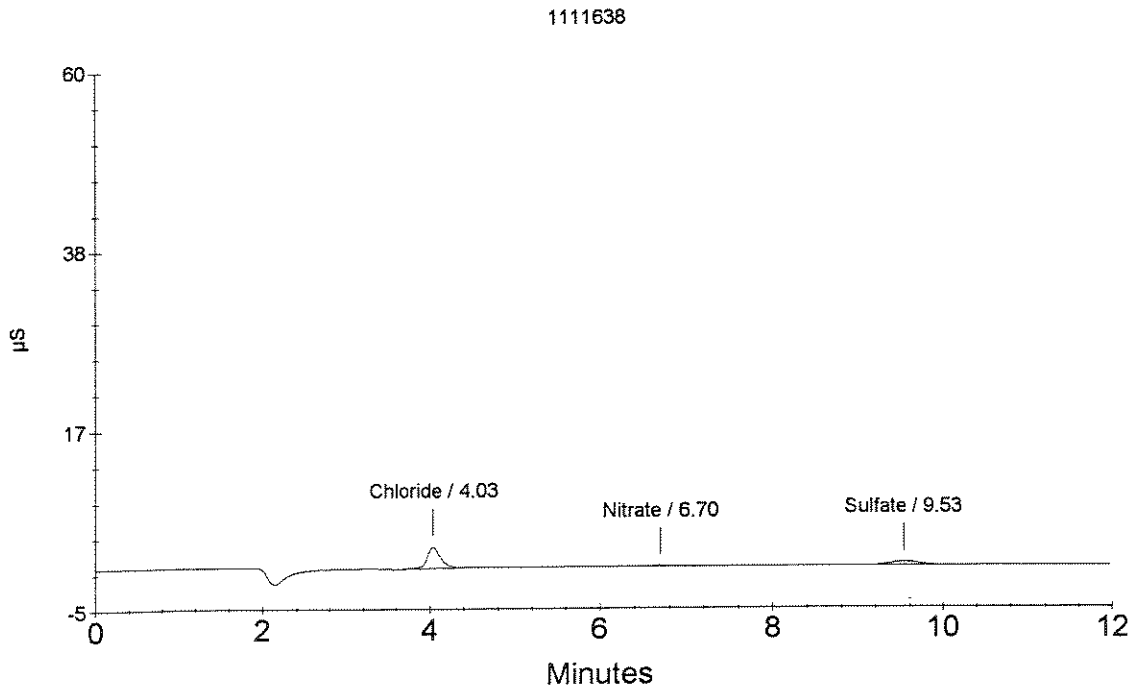
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.03	Chloride	7.438	288412
1	4.03	Chloride <i>USE STR</i>	7.438	288412
		Nitrite		
		Bromide		
2	6.70	Nitrate	0.868	9688
3	9.53	Sulfate <i>USE STR</i>	4.290	94001

TC 6/27/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111639
 Data File Name : ... \0626_019.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 14:02:55

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CS

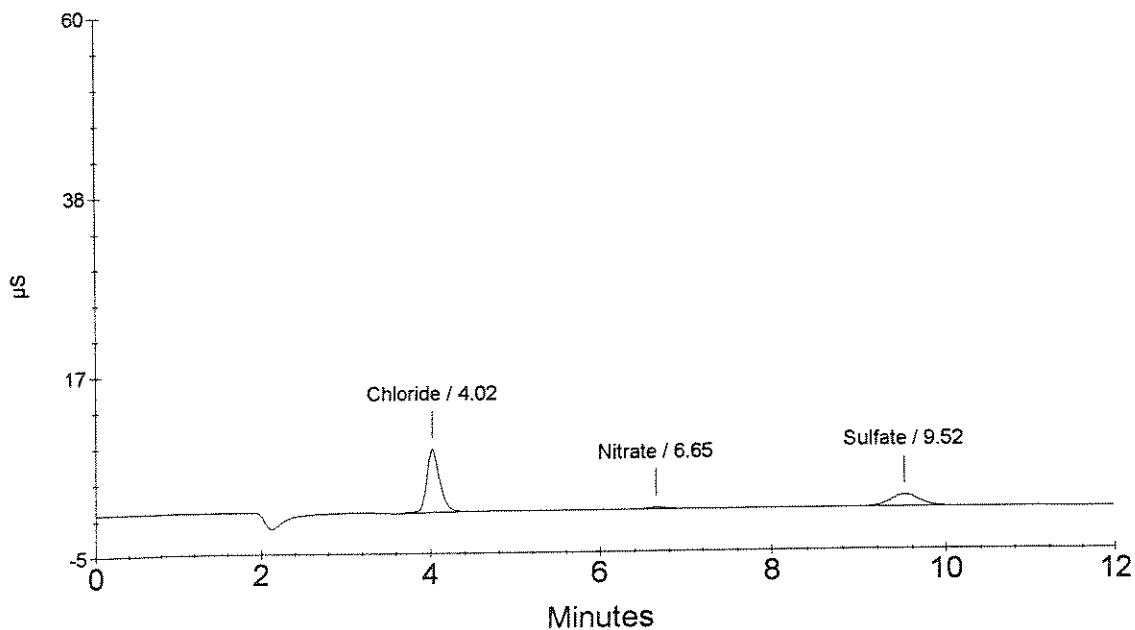
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.02	Chloride	19.226	788244
1	4.02	Chloride Nitrite Bromide	OK 19.226	788244
2	6.65	Nitrate	1.085	31575
3	9.52	Sulfate	OK 13.236	331672

TC 6/27/08

1111639



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111640
Data File Name : ...\\0626_020.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 14:17:10

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CS

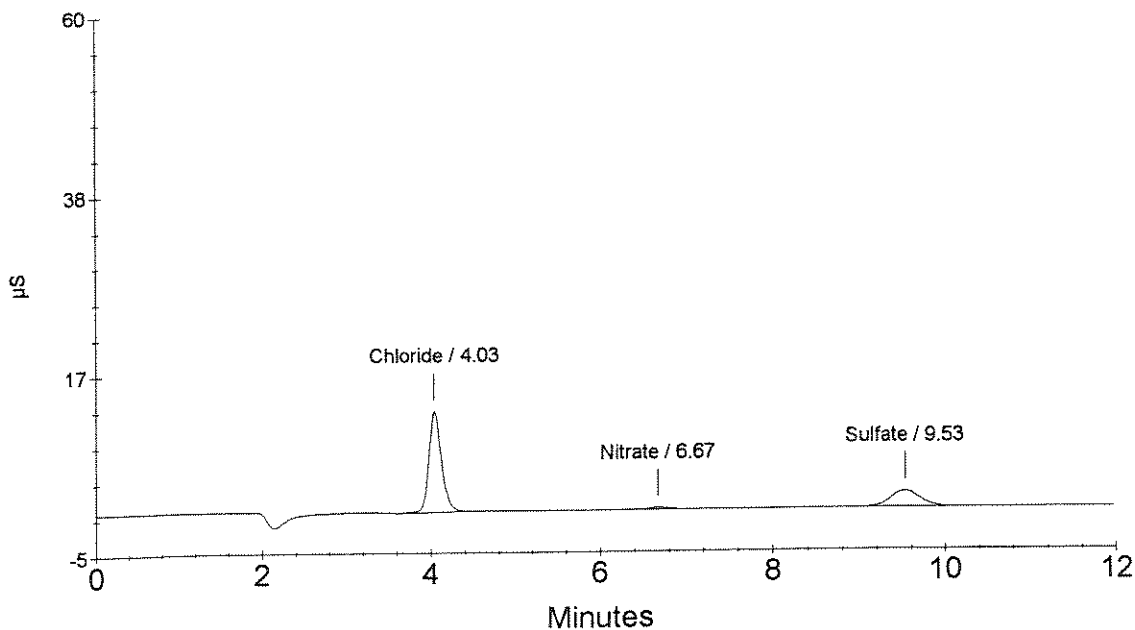
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.03	Chloride	29.662	1230814
1	4.03	Chloride Nitrite Bromide	<i>OK</i> 29.662	1230814
2	6.67	Nitrate	1.073	30336
3	9.53	Sulfate	<i>OK</i> 17.431	443106

TC 6/27/08

1111640



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111726
 Data File Name : ... \0626_021.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 14:31:26

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	147.288	6218754
1	4.05	Chloride Nitrite Bromide	147.288	6218754
2	6.65	Nitrate	1.280	51255
3	9.50	Sulfate	86.017	2265262

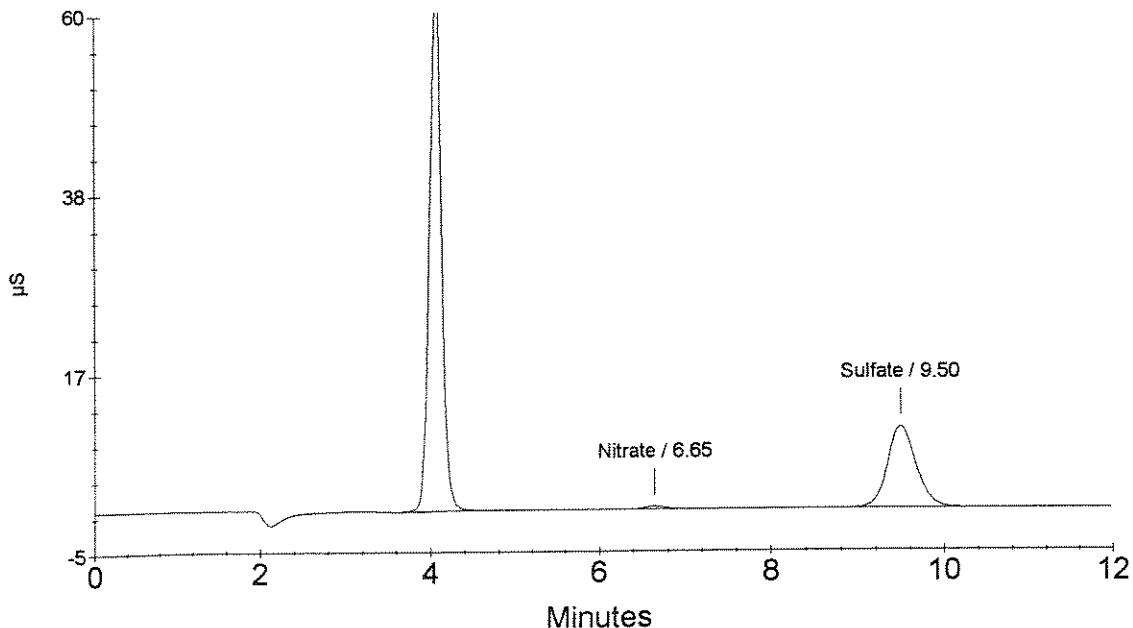
1/40

OK

TC 6/27/08

Dup
SPM
@ 40141

1111726



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111727
 Data File Name : ... \0626_022.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 14:45:42

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

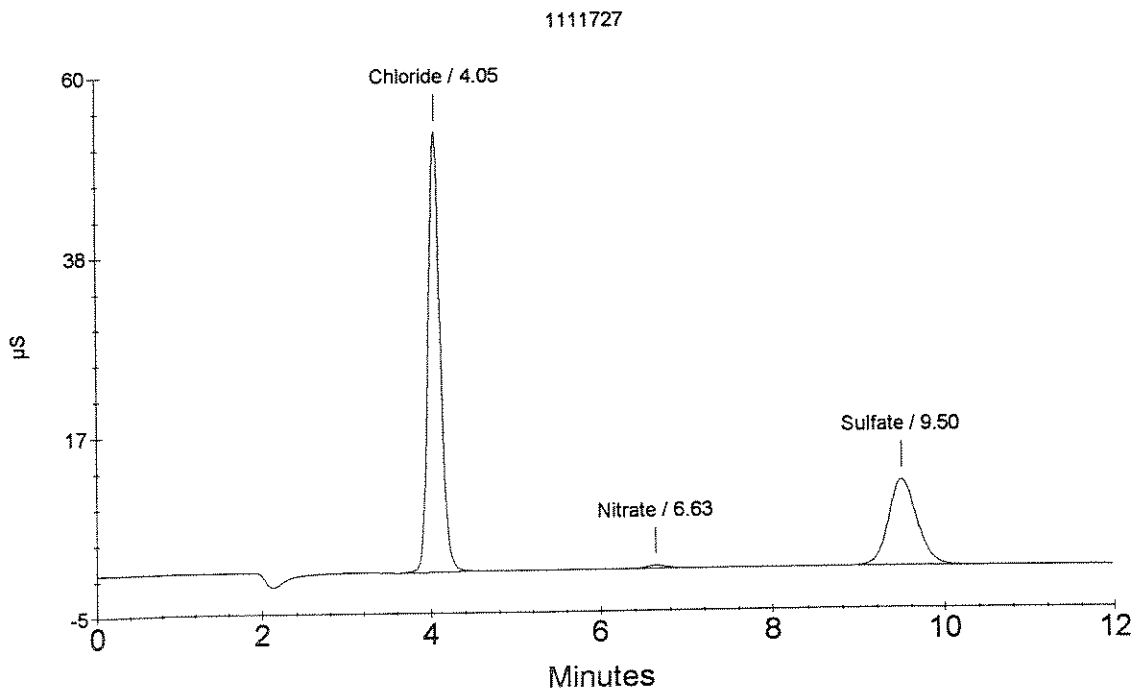
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	121.714	5134306
1	4.05	Chloride Nitrite Bromide	1140 121.714	5134306
2	6.63	Nitrate	1.303	53547
3	9.50	Sulfate	90.623	2387624

TC 6/27/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111727 DUP
Data File Name : ...\\0626_023.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 15:00:03

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

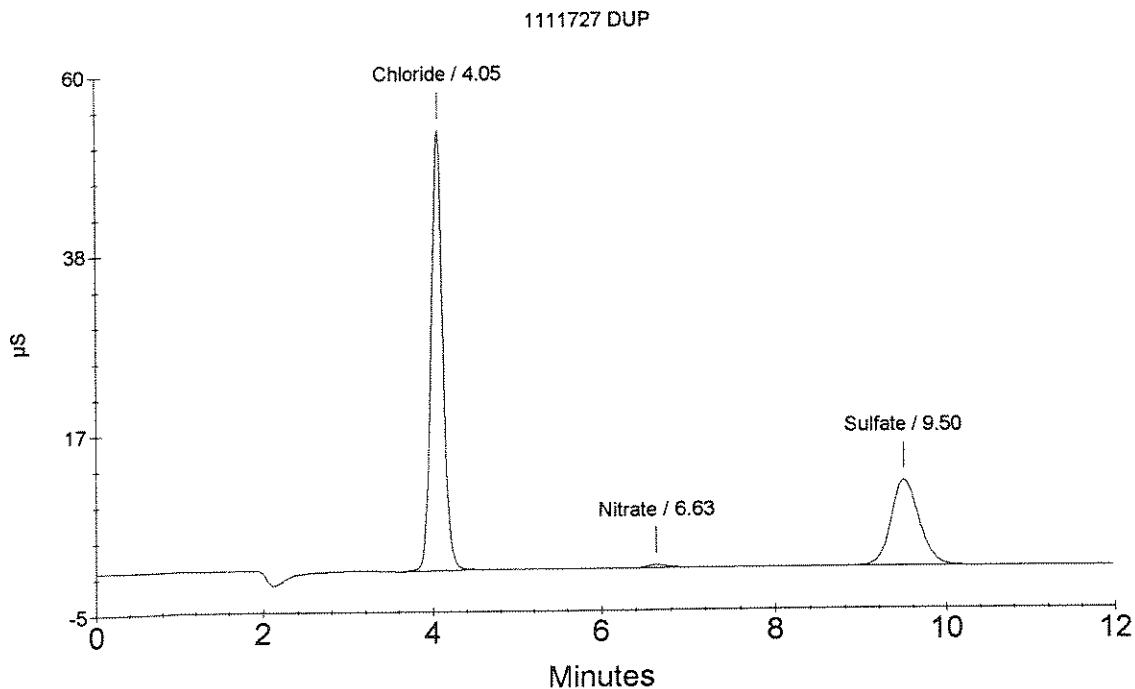
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	121.652	5131649
1	4.05	Chloride Nitrite Bromide	121.652	5131649
2	6.63	Nitrate	1.314	54652
3	9.50	Sulfate	90.407	2381895

TC 6/27/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111727 SPK
 Data File Name : ... \0626_024.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 15:14:25

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

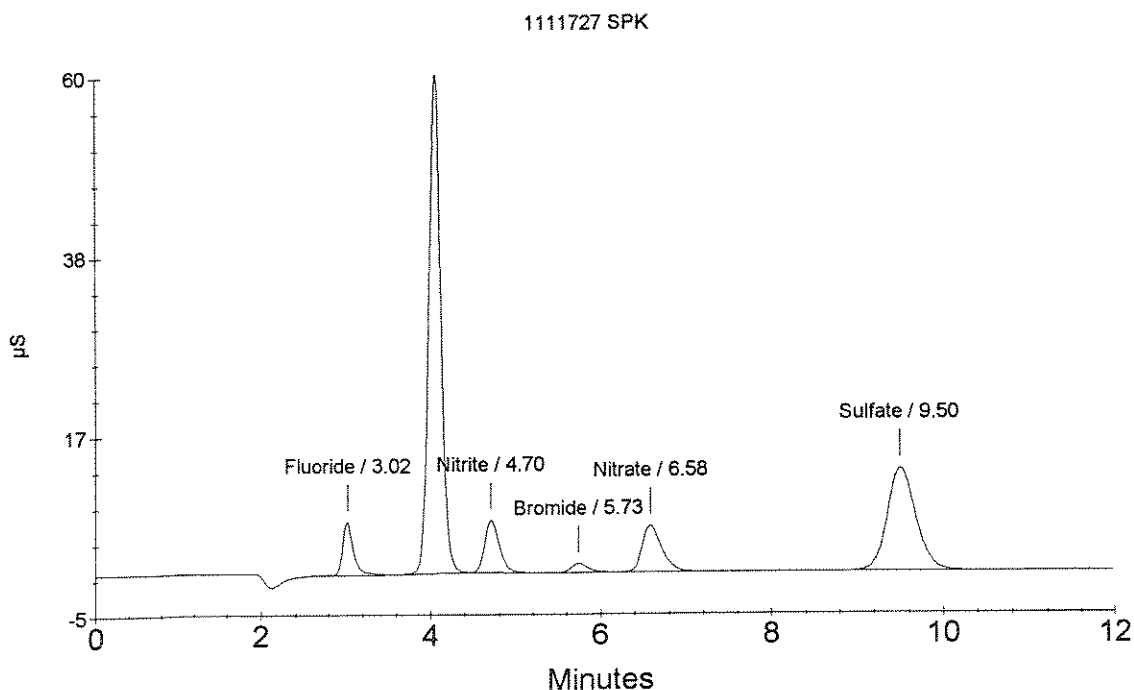
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	9.737	558722
2	4.05	Chloride	1140 138.522	5847020
3	4.70	Nitrite	9.142	742265
4	5.73	Bromide	9.117	142106
5	6.58	Nitrate	9.508	881536
6	9.50	Sulfate	OVER 107.796	2843857

TC 6/27/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MC-45B 1112486 R.44050
Data File Name : ... \0626_025.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/26/08 15:28:40

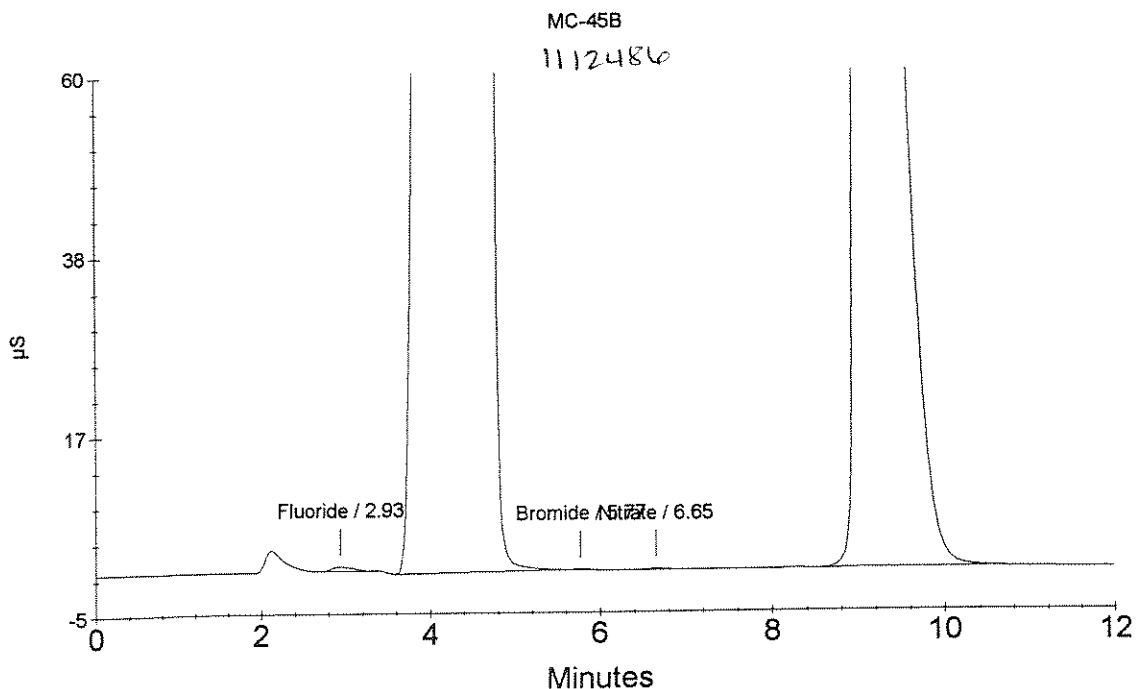
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.93	Fluoride Chloride	1.844	87601
2	4.67	Nitrite	3295.785	281712720
3	5.77	Bromide	0.648	11963
4	6.65	Nitrate	0.939	16760
5	9.13	Sulfate	2593.862	68891830



Ion Chromatography Analytical Report
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 Rochester, NY 14607

Sample Name : MC-53B 1112487
 Data File Name : ... \0626_026.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 15:42:56

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

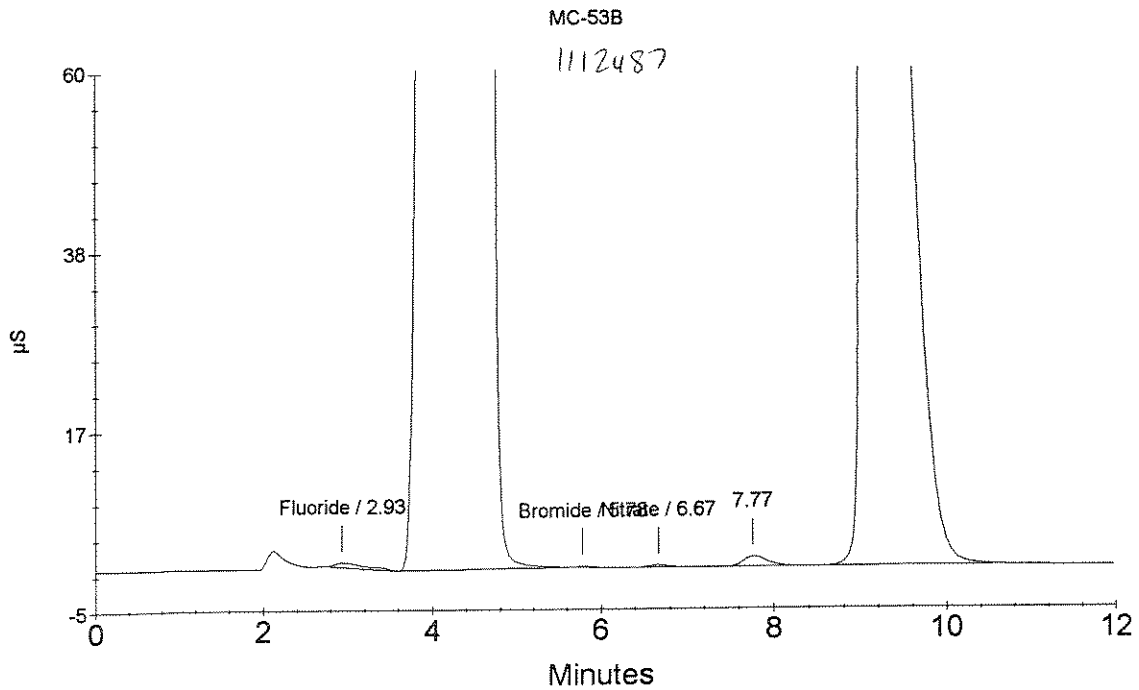
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.93	Fluoride Chloride	3.007	157036
2	4.65	Nitrite	3027.800	258803057
3	5.78	Bromide	0.549	10454
4	6.67	Nitrate	1.152	38271
6	9.17	Sulfate	2514.039	66771154

TC 6/27/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MC-97B 1112489
Data File Name : ...\\0626_027.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 15:57:18

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

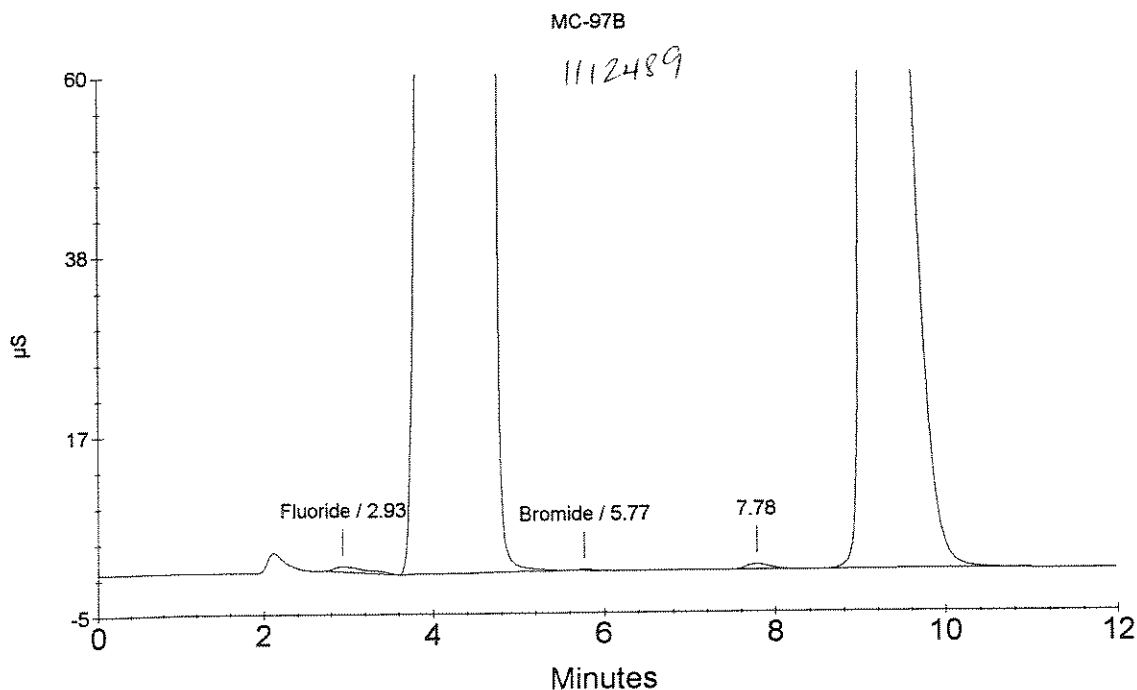
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.93	Fluoride Chloride	3.286 11400	173692
2	4.63	Nitrite	3055.499	261171013
3	5.77	Bromide Nitrate	0.638 use 1140 OK	11812
5	9.17	Sulfate	2519.489 11400	66915935

TC 6/27/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : M-23B 1112488
Data File Name : ...\\0626_028.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 16:11:39

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

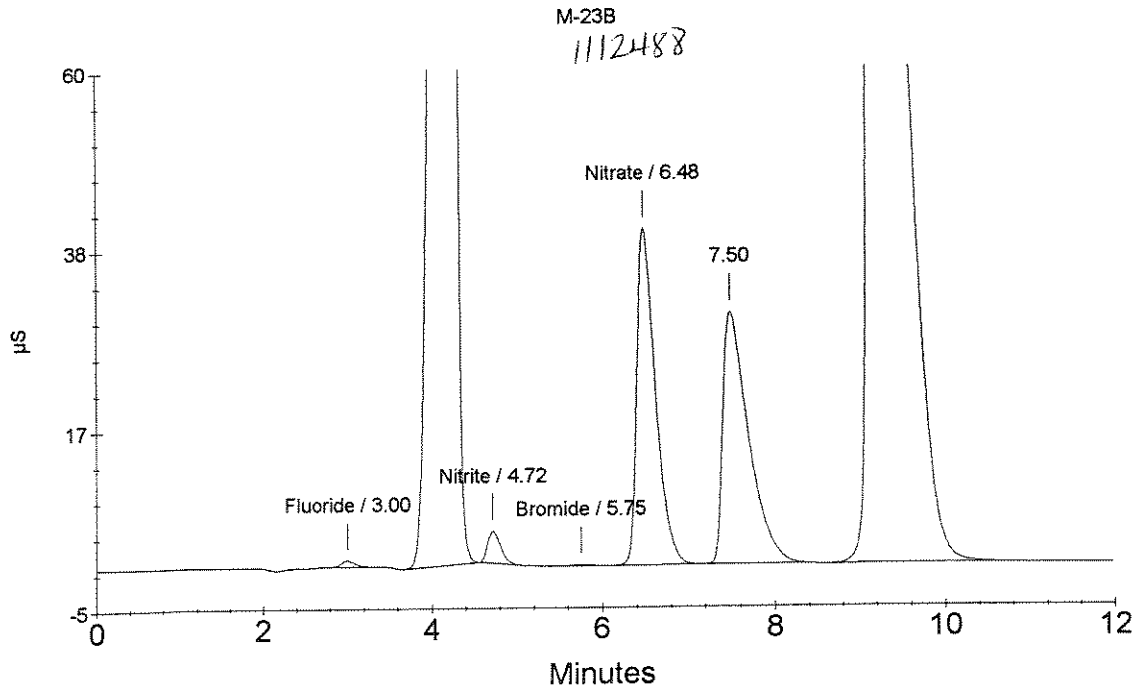
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	1.671	77270
2	4.23	Chloride	11400	49363667
3	4.72	Nitrite <i>Reprocess</i>	5.233	408114
4	5.75	Bromide	1.016	17618
5	6.48	Nitrate	1140	6217884
7	9.27	Sulfate	11400	45587421

TC 6/27/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\0626_029.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 16:25:55

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

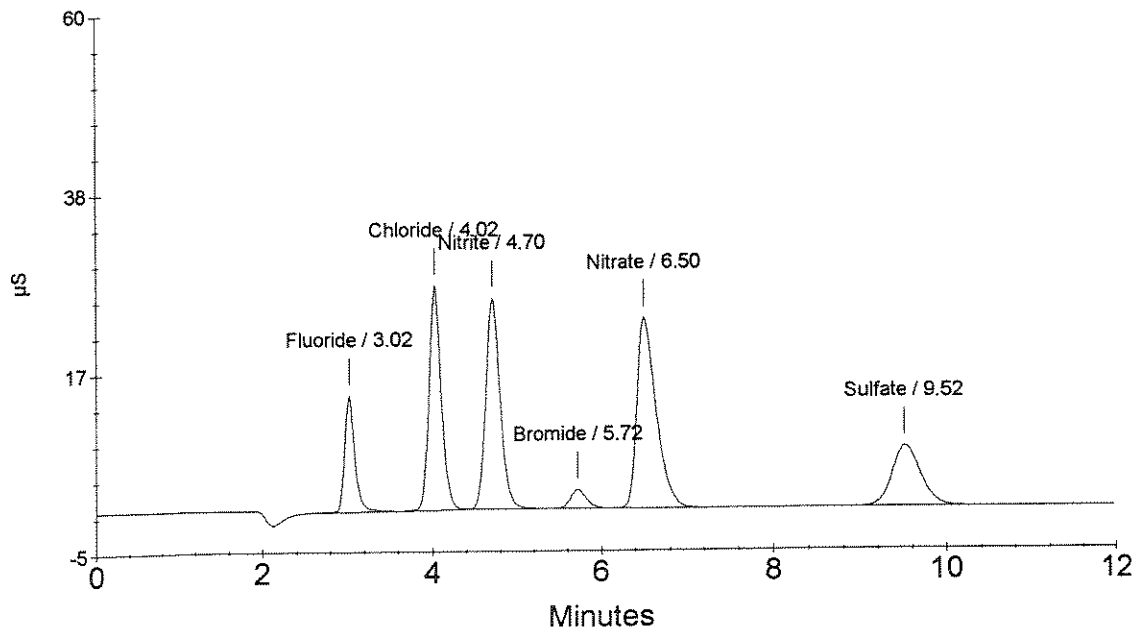
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	1.986	1163001
2	4.02	Chloride	6.331	2657451
3	4.70	Nitrite	3.592	3031833
4	5.72	Bromide	1.901	294083
5	6.50	Nitrate	3.619	3573698
6	9.52	Sulfate	6.428	1687858

OK
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IC 6/27/08

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\0626_030.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 16:40:15

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

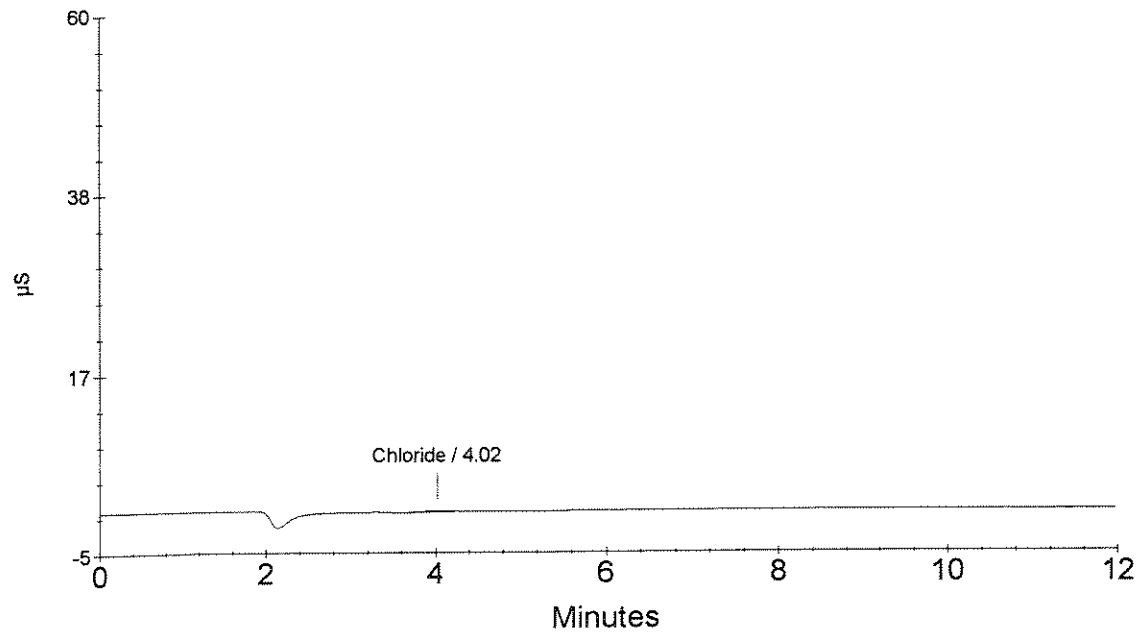
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.02	Chloride	0.125	26119
1	4.02	Chloride	0.125	26119
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
↓
TC 6/27/08

CCB



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : LCS
 Data File Name : ... \0626_031.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 16:54:31

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

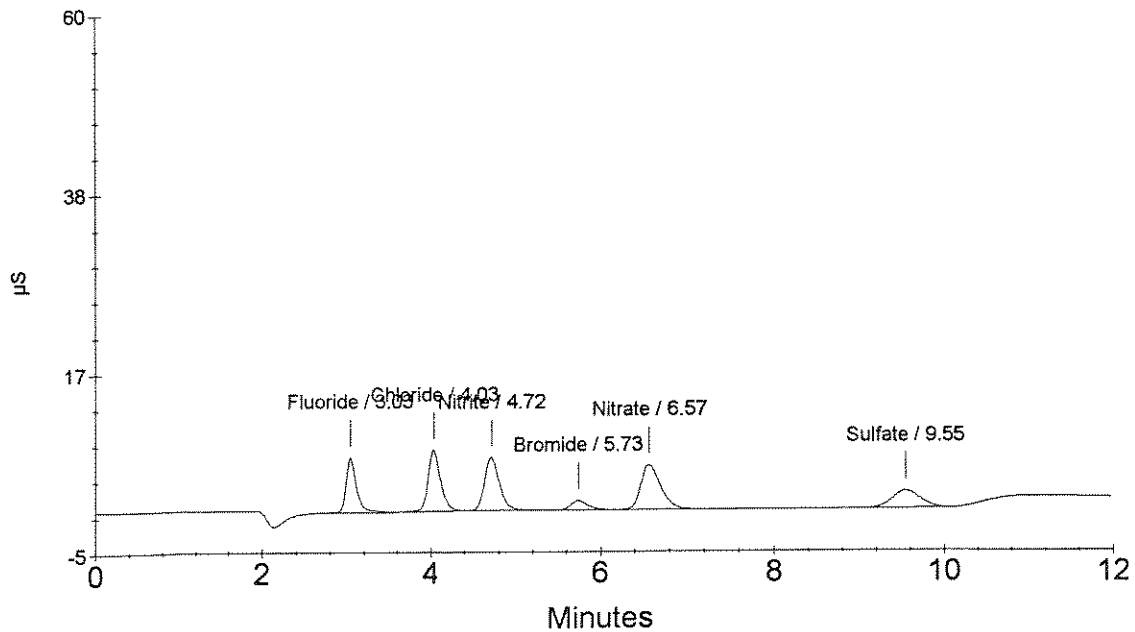
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	0.990	568418
2	4.03	Chloride	1.855	759662
3	4.72	Nitrite	0.935	760357
4	5.73	Bromide	0.924	143972
5	6.57	Nitrate	0.905	835733
6	9.55	Sulfate	1.883	480335

OK
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TC 6/27/08

LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MC-45B 1112486
Data File Name : ... \0626_032.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/26/08 17:08:46

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

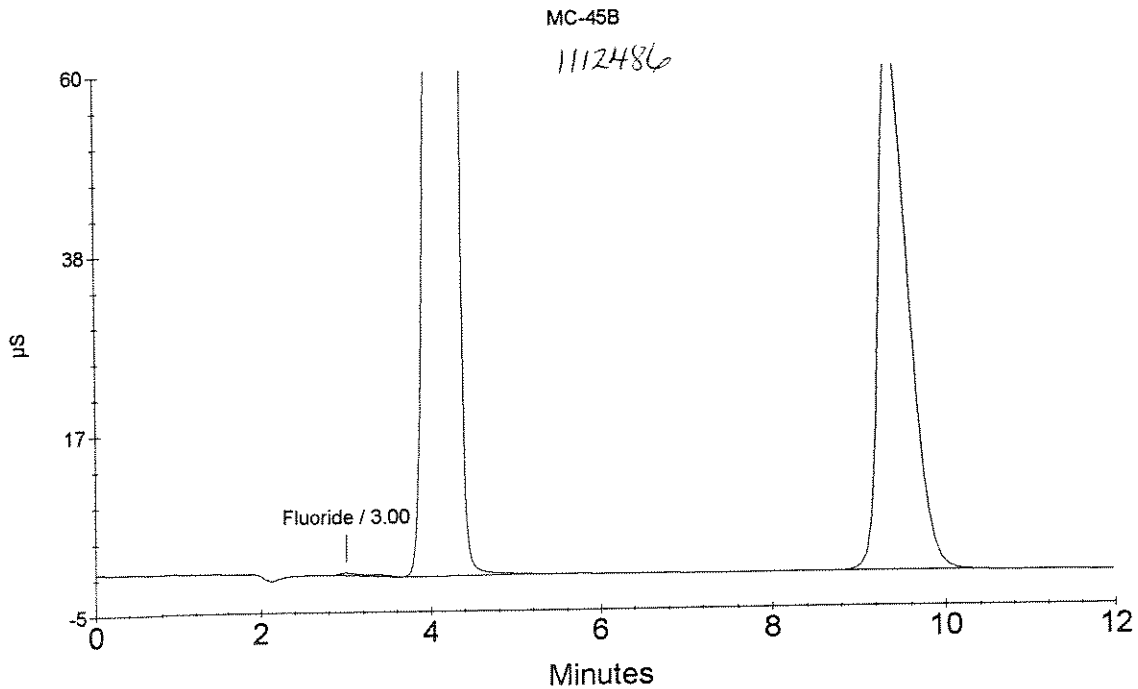
Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	6.700	77532
2	4.27	Chloride Nitrite Bromide	11400 OK 6384.125	67653079
3	9.42	Nitrate Sulfate	USE 1/10 11400 2272.196	15071529

TC 6/27/08



Ion Chromatography Analytical Report
Columbia Analytical Services
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Sample Name : MC-53B 1112487
Data File Name : ...\\0626_033.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 17:23:02

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

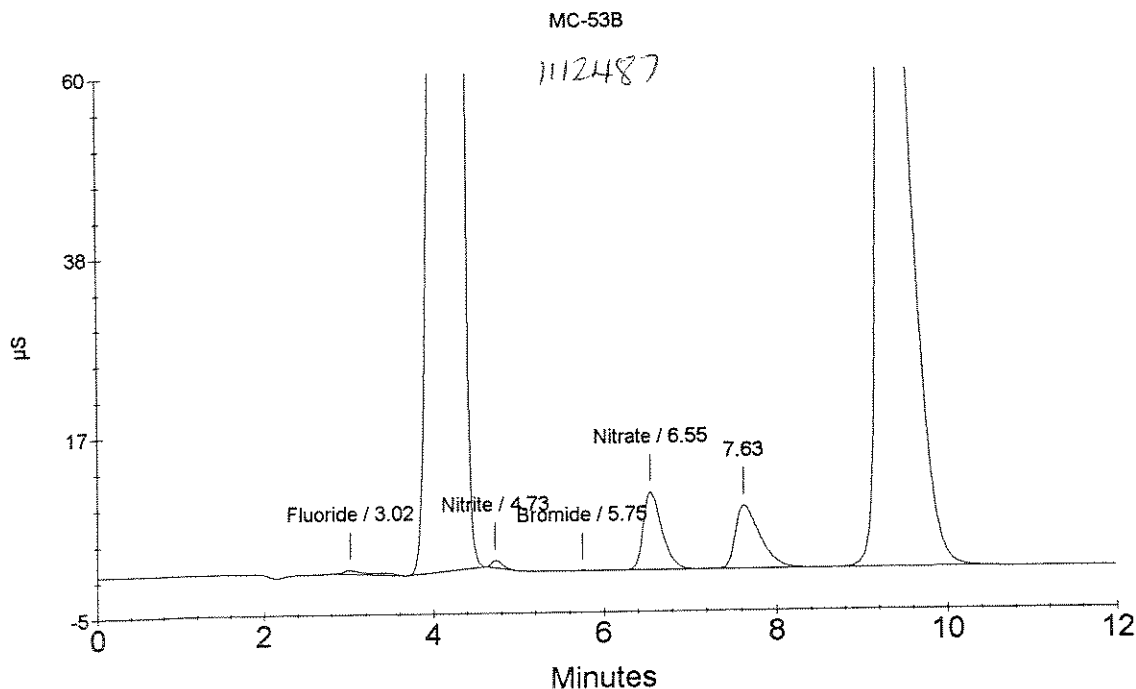
Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	8.374	102509
2	4.32	Chloride	6876.928	72877435
3	4.73	Nitrite <i>Reprocess</i>	5.485	77956
4	5.75	Bromide <i>507/2408</i>	1.308	7036
5	6.55	Nitrate <i>use 1/10</i>	59.394	1420454
7	9.37	Sulfate <i>11400</i>	4013.252	26635302

TC 6/27/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : MC-97B 1112489
 Data File Name : ... \0626_034.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 17:37:19

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

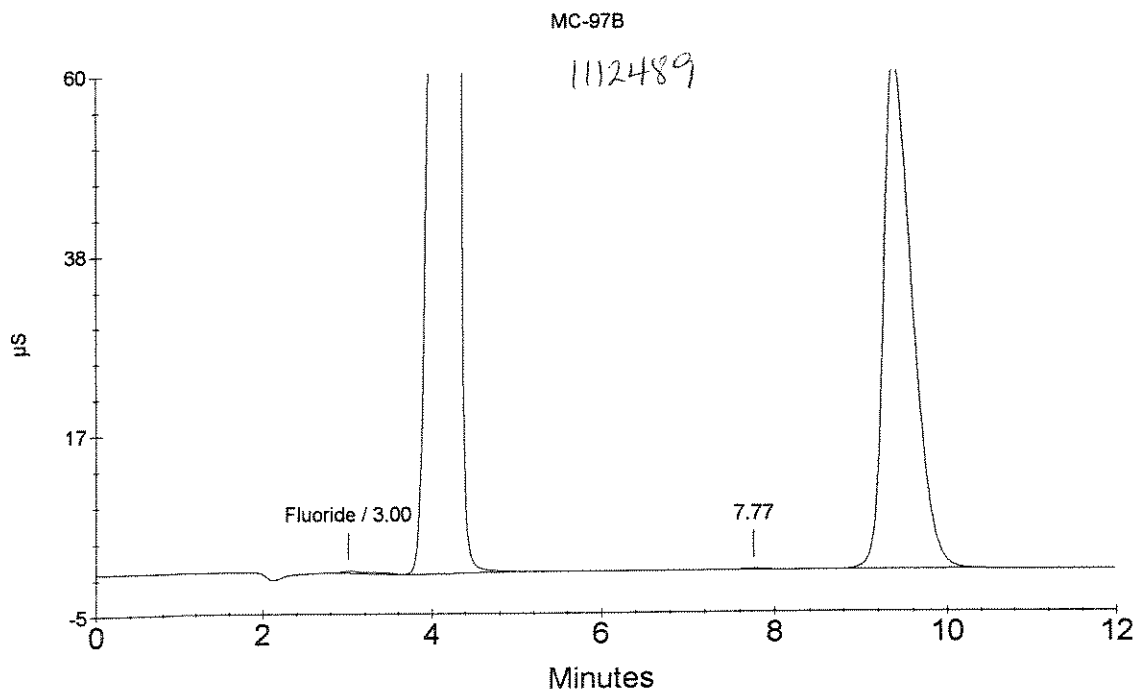
Dilution Factor : 40.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	6.490	74408
2	4.27	Chloride Nitrite Bromide	11400 OK 5740.743	60832387
4	9.42	Nitrate Sulfate	use 1/10 11400 2134.407	14156360

7c 6/27/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : M-23B 1112488
 Data File Name : ...\\0626_035.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/26/08 17:51:40

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

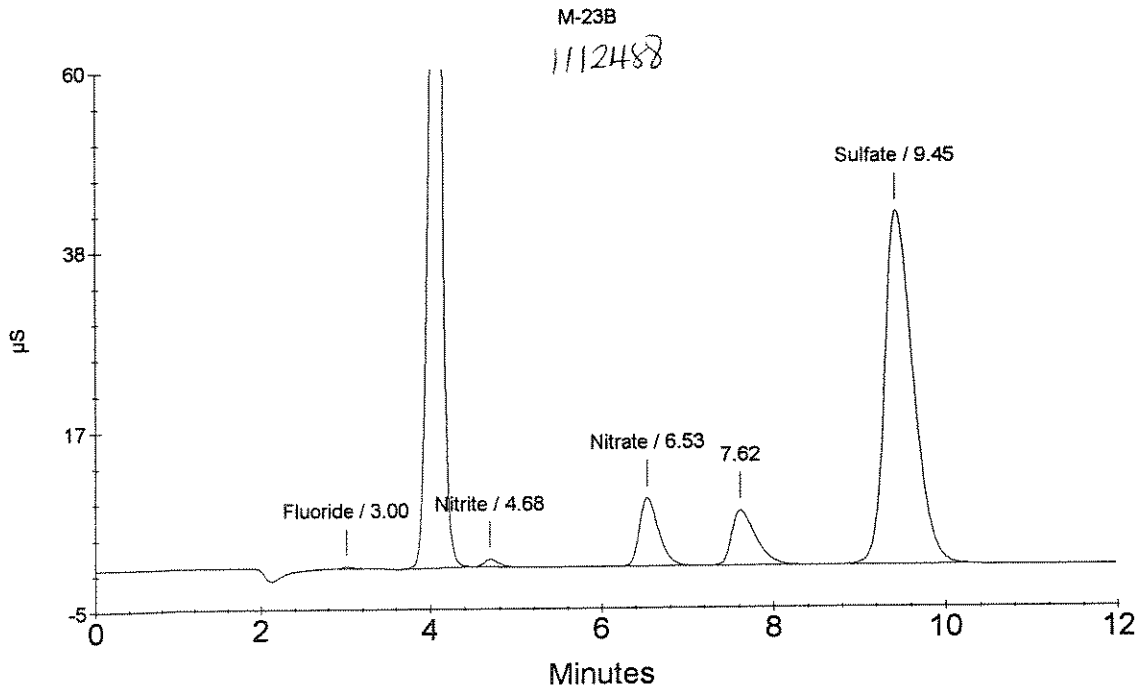
Dilution Factor : 40.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	2.678	17522
2	4.07	Chloride	1051.741	11122810
3	4.68	Nitrite Bromide	6.529	100258
4	6.53	Nitrate	53.170	1263449
6	9.45	Sulfate	1463.244	9698620

TC 6/27/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : MC-45B 1112486
 Data File Name : ...\\0626_036.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/26/08 18:05:55

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

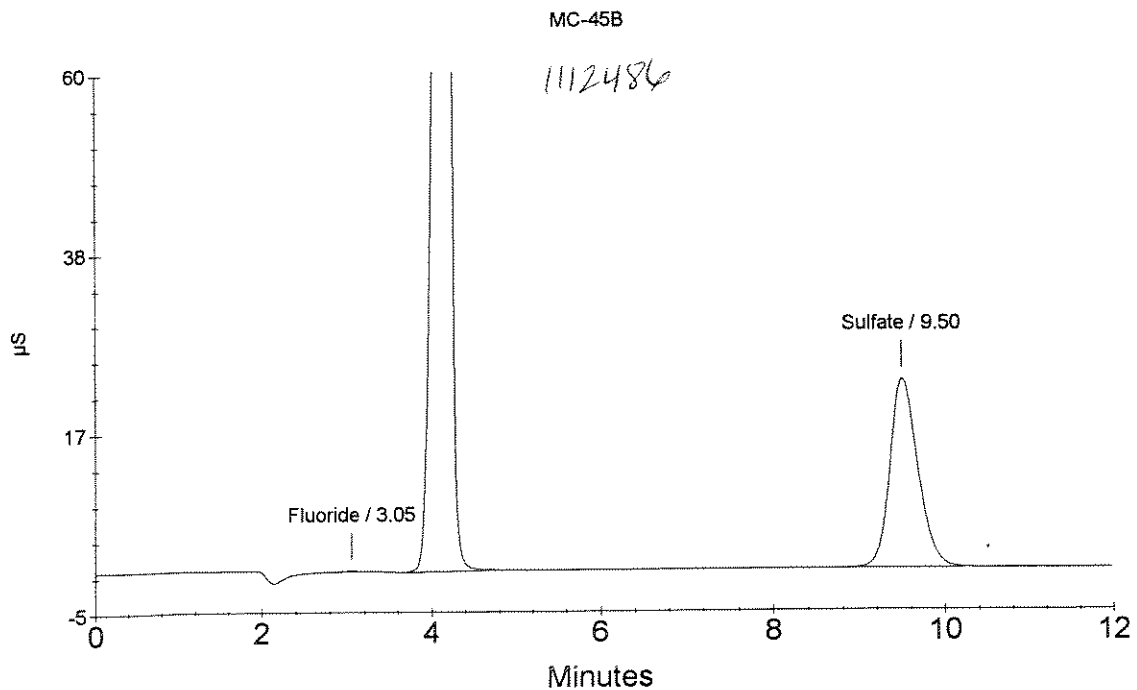
Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.05	Fluoride	5.134	8210
2	4.17	Chloride Nitrite Bromide	6019.651	25499460
3	9.50	Nitrate Sulfate	1950.029	5160717

TC 6/27/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : MC-53B
 Data File Name : ...\\0626_037.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/26/08 18:20:12

1112487

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

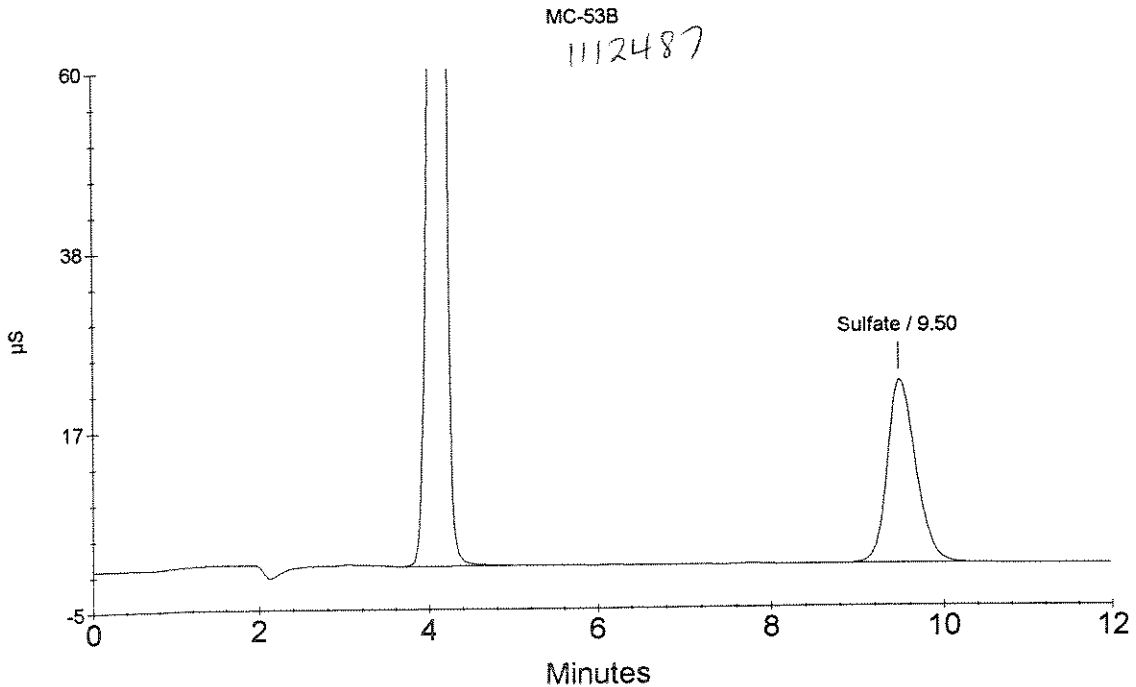
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.15	Chloride	5504.996	23317053
1	4.15	Chloride	5504.996	23317053
		Nitrite		
		Bromide		
		Nitrate		
2	9.50	Sulfate	1890.899	5003624

11400
 1/40
 use 1/10
 1/400

TC 6/27/08



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Rochester, NY 14607

Sample Name : MC-97B 1112489
 Data File Name : ...\\0626_038.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/26/08 18:34:26

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

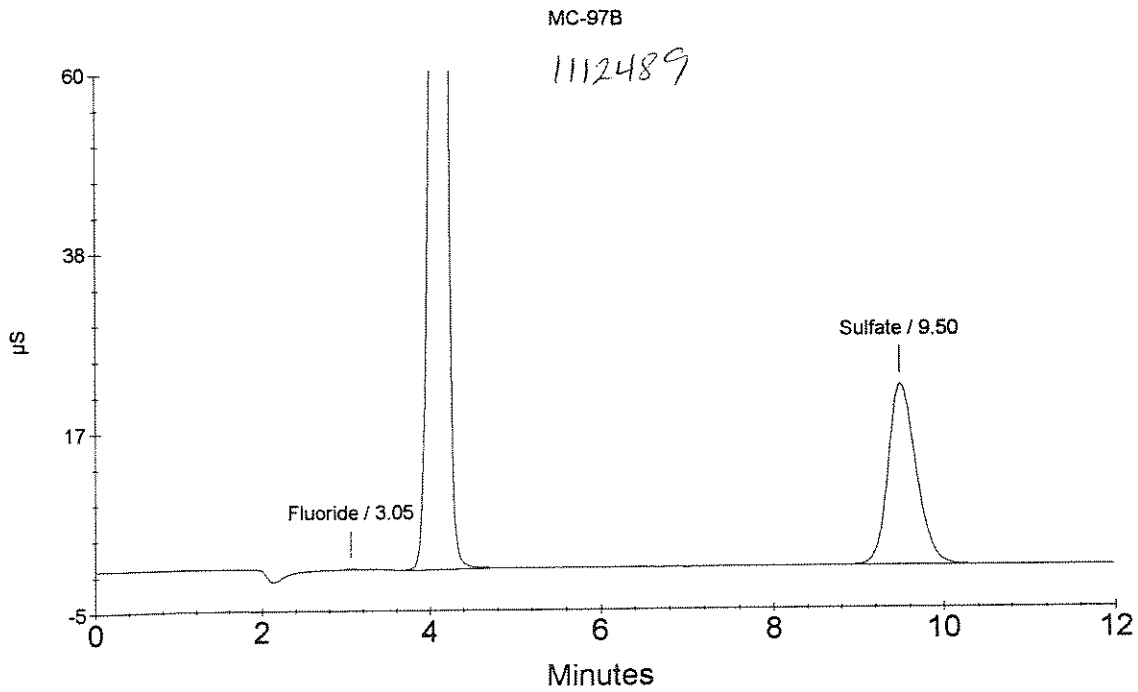
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.05	Fluoride	5.101	8010
2	4.15	Chloride Nitrite Bromide	5534.283	23441243
3	9.50	Nitrate Sulfate	1881.664	4979090

1/400
 use 1/40
 use 1/10
 1/400

TC 6/27/08



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Rochester, NY 14607

Sample Name : M-23B 1112488
Data File Name : ... \0626_039.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/26/08 18:48:43

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

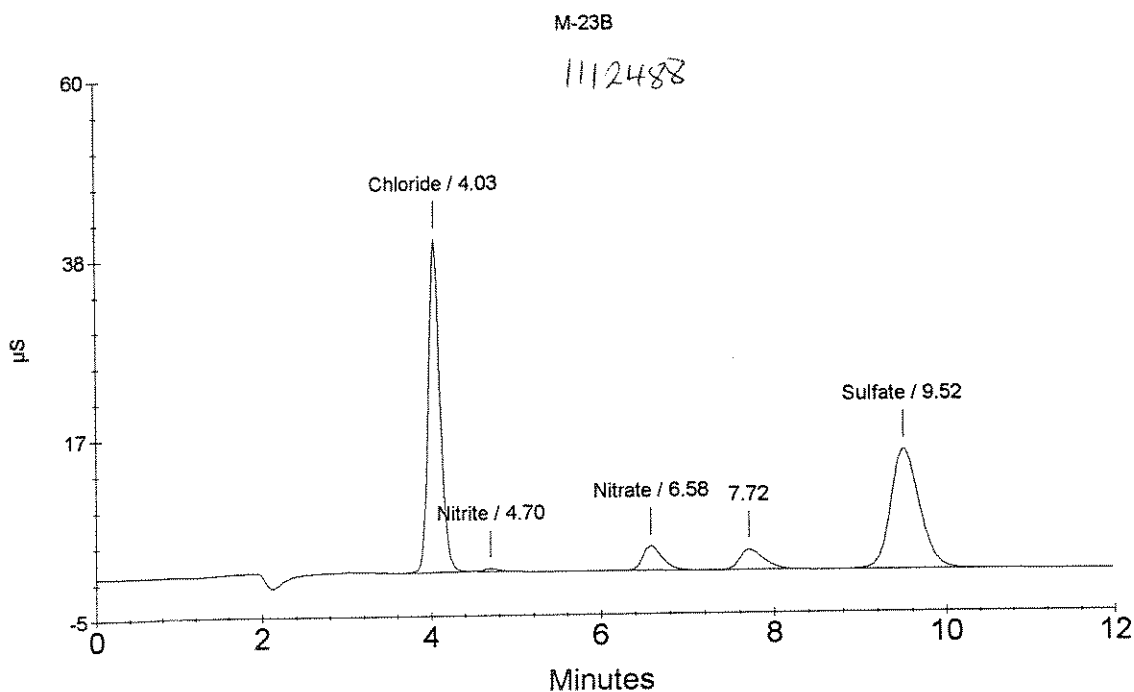
Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.03	Chloride	916.197	3858138
1	4.03	Chloride	916.197	3858138
2	4.70	Nitrite	9.201	39383
		Bromide		
3	6.58	Nitrate	53.223	459139
5	9.52	Sulfate	1253.279	3309642

70 06/27/08



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Sample Name : 1111726 DUP
 Data File Name : ... \06226_040.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/26/08 19:03:05

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

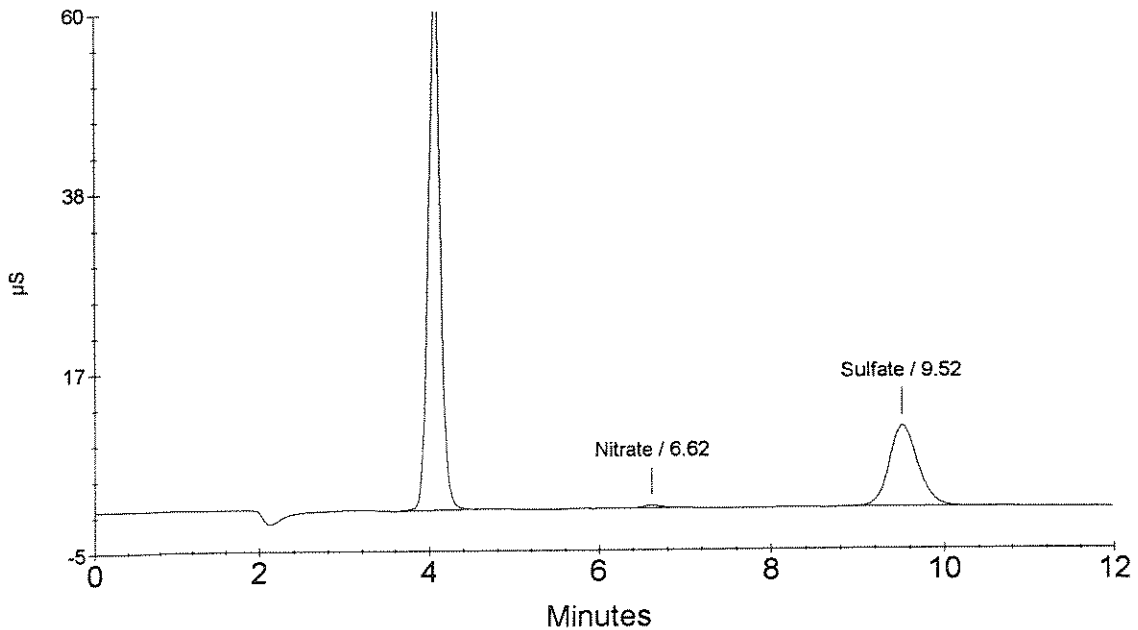
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	145.428	6139888
1	4.05	Chloride	145.428	6139888
		Nitrite		
		Bromide		
2	6.62	Nitrate	1.254	48556
3	9.52	Sulfate	85.300	2246214

re 6/27/08
 1111726 DUP



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Sample Name : 1111726 SPK
Data File Name : ...\\06226_041.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 19:17:27

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CS

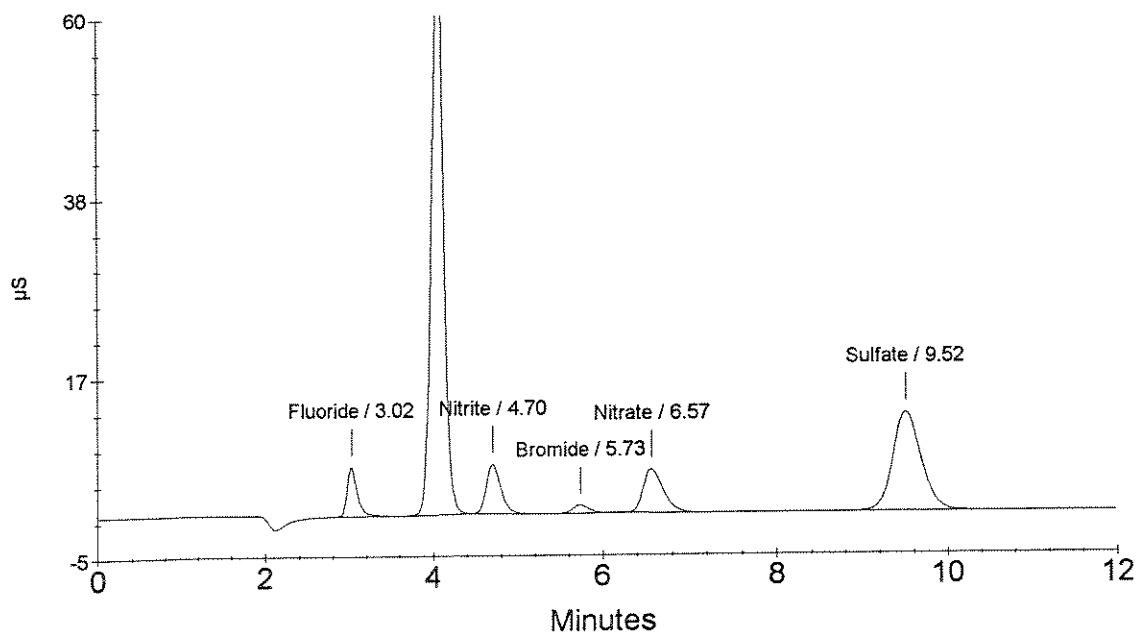
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	8.981	513581
2	4.05	Chloride	163.910	6923638
3	4.70	Nitrite	8.581	694276
4	5.73	Bromide	8.193	127900
5	6.57	Nitrate	8.904	820634
6	9.52	Sulfate	103.560	2731322

TC 6/27/08

1111726 SPK



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Sample Name : CCV
Data File Name : ... \06226_042.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/26/08 19:31:43

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

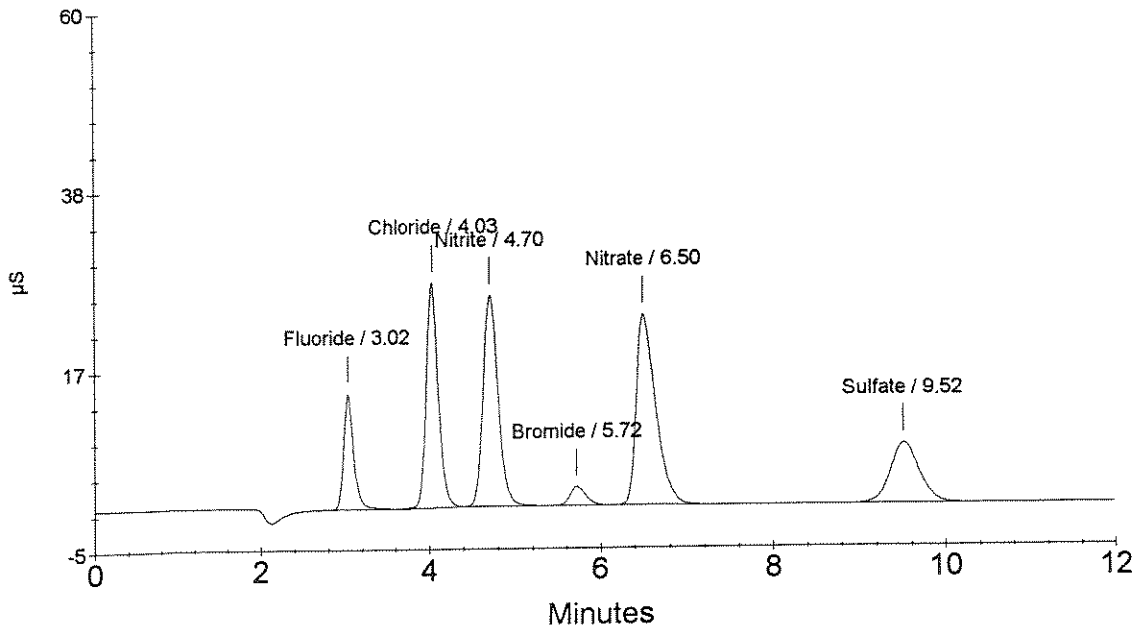
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	1.968	1152273
2	4.03	Chloride	6.340	2661401
3	4.70	Nitrite	3.595	3034186
4	5.72	Bromide	1.904	294531
5	6.50	Nitrate	3.612	3566916
6	9.52	Sulfate	6.421	1685802

OK
↓

TC 6/27/08

ccv



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Sample Name : CCB
Data File Name : ...\\06226_043.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/26/08 19:46:05

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

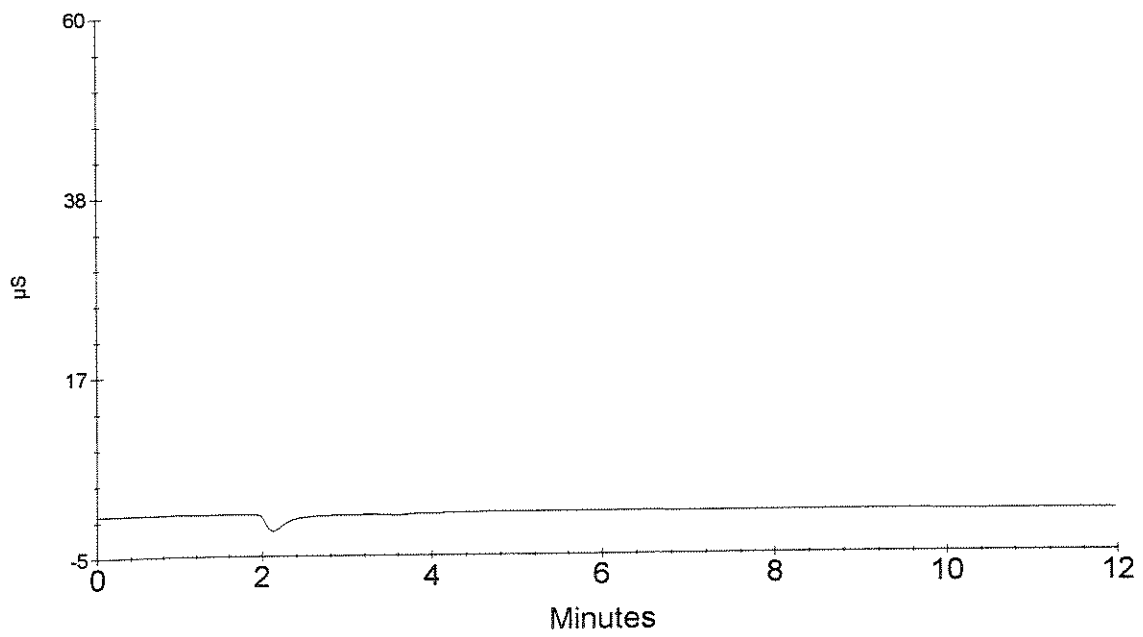
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK
↓
TC 6/27/08

CCB



Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: 06/23/08 Loop size: 100 uL

Analyst: TChrist Analysis Date: 6/23/08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A	Working Calibration Stds	06/23/08	WC72050I
LCS / MS Intermediate	06/23/08	WC72050A	Working LCS/MS Standard	06/23/08	WC72093C
ICV Intermediate	06/23/08	WC90100A	Working ICV Standard	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A	Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WCC120093A	50	2.0	100	1.0	TC	6/17/08	A	6/17/08	WCC120093A
Cl		100			2.0	TC	6/23/08	B	6/23/08	WCC120093B
NO2		50			1.0	TC	6/23/08	C	6/23/08	WCC120093C
Br		50			1.0	TC	6/23/08	D	7/3/08	WCC120093D
NO3		50			1.0			E		
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Run #: 163167

Analyte: BROMIDE 9056

BROMIDE BY ION CHROMATOGRAPHY

Printed: 07/01/08 15:10

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK5	-	1113971	WATER	1.88	1.0	0.100	93.8		6/27/08		
BLK4	-	1113972	WATER	0.0370	1.0	0.100					
SPKB	-	1113973	WATER	0.958	1.0	0.100	95.8				
ESMP	R2844650	-	1112871	WATER	10.0	0.100					ASPB
ESMP	R2844650	-	1112872	WATER	10.0	0.100					ASPB
ESMP	R2844650	-	1112874	WATER	10.0	0.100					ASPB
LDUP	-	1113974	WATER	1.20	10.0	0.100		88.13		QC	
SPK1	-	1113975	WATER	10.5	10.0	0.100	100.0				

Records printed: 8

Line	Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Weight	Int. Std.	Comment
1	CCV	Sample		20080623.met	0627_001.dxd	1	1	1	1	ANALYST: TC
2	CCB	Sample		20080623.met	0627_002.dxd	1	1	1	1	PIPETTES: LUCY, MINE
3	LCS	Sample		20080623.met	0627_003.dxd	1	1	1	1	
4	LCS	Sample		20080623.met	0627_004.dxd	1	1	1	1	
5	PBW-M3450097	Sample		20080623.met	0627_005.dxd	1	1	1	1	SULFUR DIGEST
6	LCSW-M3450097	Sample		20080623.met	0627_006.dxd	1	4	1	1	SULFUR DIGEST
7	LCSW-DUP	Sample		20080623.met	0627_007.dxd	1	4	1	1	SULFUR DIGEST
8	1111908 R-44641	Sample		20080623.met	0627_008.dxd	1	1	1	1	SULFUR DIGEST
9	1110960 R-44605	Sample		20080623.met	0627_009.dxd	1	1000	1	1	S
10	1110963	Sample		20080623.met	0627_010.dxd	1	100	1	1	S
11	1110963 DUP	Sample		20080623.met	0627_011.dxd	1	100	1	1	S
12	1110963 SPK	Sample		20080623.met	0627_012.dxd	1	100	1	1	S
13	DGC-1S	Sample		20080623.met	0627_013.dxd	1	10	1	1	B
14	CHA-7S	Sample		20080623.met	0627_014.dxd	1	10	1	1	B
15	DGC-4S	Sample		20080623.met	0627_015.dxd	1	10	1	1	B
16	TCC-1	Sample		20080623.met	0627_016.dxd	1	10	1	1	B
17	CCV	Sample		20080623.met	0627_017.dxd	1	1	1	1	B
18	CCB	Sample		20080623.met	0627_018.dxd	1	1	1	1	B
19	TCC-2	Sample		20080623.met	0627_019.dxd	1	10	1	1	B
20	TCC-2 DUP	Sample		20080623.met	0627_020.dxd	1	10	1	1	B
21	TCC-2 SPK	Sample		20080623.met	0627_021.dxd	1	10	1	1	B
22	SW-1	Sample		20080623.met	0627_022.dxd	1	10	1	1	B
23	CHA-7S DUP	Sample		20080623.met	0627_023.dxd	1	10	1	1	B
24	1112871 R-44650	Sample		20080623.met	0627_024.dxd	1	10	1	1	B
25	1112872	Sample		20080623.met	0627_025.dxd	1	10	1	1	B
26	1112874	Sample		20080623.met	0627_026.dxd	1	10	1	1	B
27	1112874 DUP	Sample		20080623.met	0627_027.dxd	1	10	1	1	B
28	1112874 SPK	Sample		20080623.met	0627_028.dxd	1	10	1	1	B
29	CCV	Sample		20080623.met	0627_029.dxd	1	1	1	1	B
30	CCB	Sample		20080623.met	0627_030.dxd	1	1	1	1	B
31	END	Sample		shutdown.met	0627	1	1	1	1	

44605
44650

Default Method Path: J:\ACQUDATA\1\1\METHOD.AC\1\1\4
 Default Data Path: J:\ACQUDATA\1\1\DATA\1\1\4\1062708
 Comment:

62859

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Sample Name : CCV
Data File Name : ...\\0627_001.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/27/08 09:17:33

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : ANALYST: TC

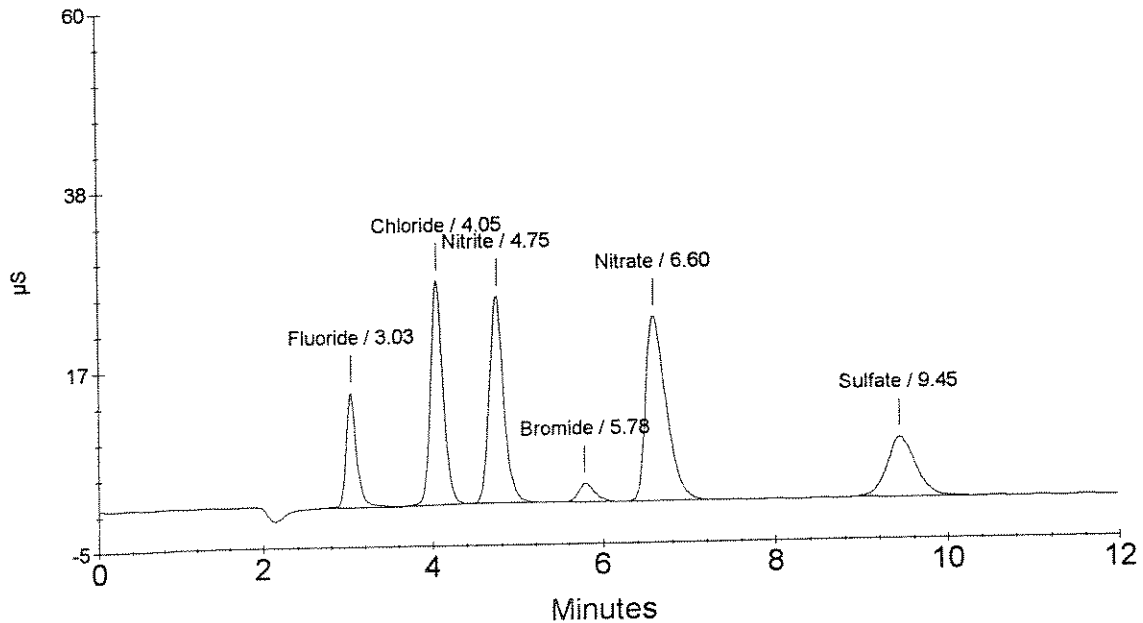
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	2.067	1211131
2	4.05	Chloride	6.525	2739929
3	4.75	Nitrite	3.450	2910281
4	5.78	Bromide	1.876	290197
5	6.60	Nitrate	3.699	3655328
6	9.45	Sulfate	6.455	1694815

OK
↓
TC 6/27/08

CCV



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Sample Name : CCB
 Data File Name : ... \0627_002.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/27/08 09:31:52

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : PIPETTES: LUCY, MINE

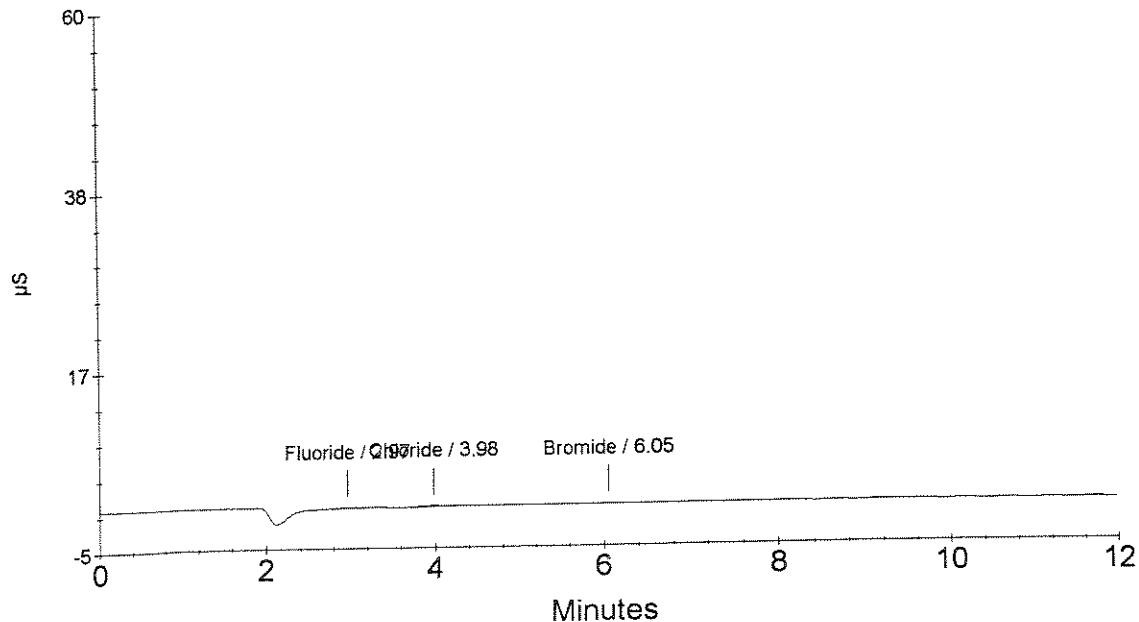
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.97	Fluoride	0.055	10418
2	3.98	Chloride	0.135	30369
3	6.05	Nitrite	0.037	7771
		Bromide		
		Nitrate Sulfate		

OK
 ↓
 6/27/08

CCB



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 Rochester, NY 14607

Sample Name : LCS
 Data File Name : ...\\0627_003.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/27/08 09:46:07

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

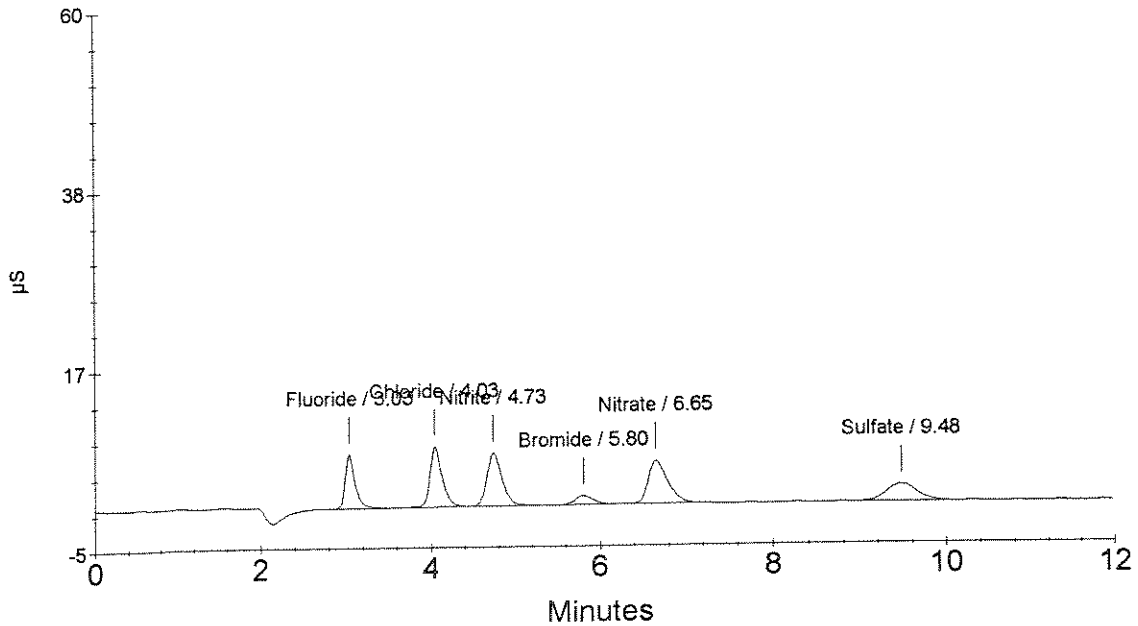
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	0.920	526723
2	4.03	Chloride	1.756	717688
3	4.73	Nitrite	0.981	799430
4	5.80	Bromide	0.958	149194
5	6.65	Nitrate	0.880	810163
6	9.48	Sulfate	1.995	510119

OK
out low
OK
↓
out low
OK

TC 6/27/08

LCS



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Sample Name : LCS
 Data File Name : ... \0627_004.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/27/08 10:08:13

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

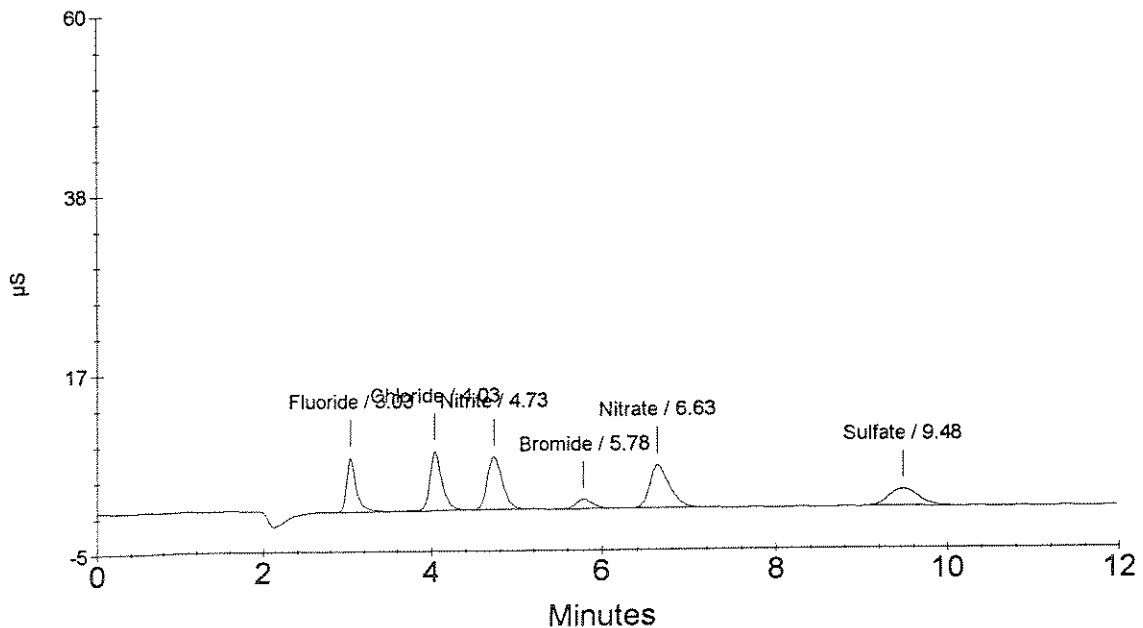
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride <i>OK</i>	0.913	522744
2	4.03	Chloride <i>out low</i>	1.720	702447
3	4.73	Nitrite <i>OK</i>	0.959	780160
4	5.78	Bromide <i>↓</i>	0.997	155250
5	6.63	Nitrate <i>out low</i>	0.875	805337
6	9.48	Sulfate <i>OK</i>	1.962	501164

TC 6/30/08

LCS



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Rochester, NY 14607

Sample Name : PBW-M3450097
Data File Name : ... \0627_005.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/27/08 11:41:09

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : SULFUR DIGEST

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

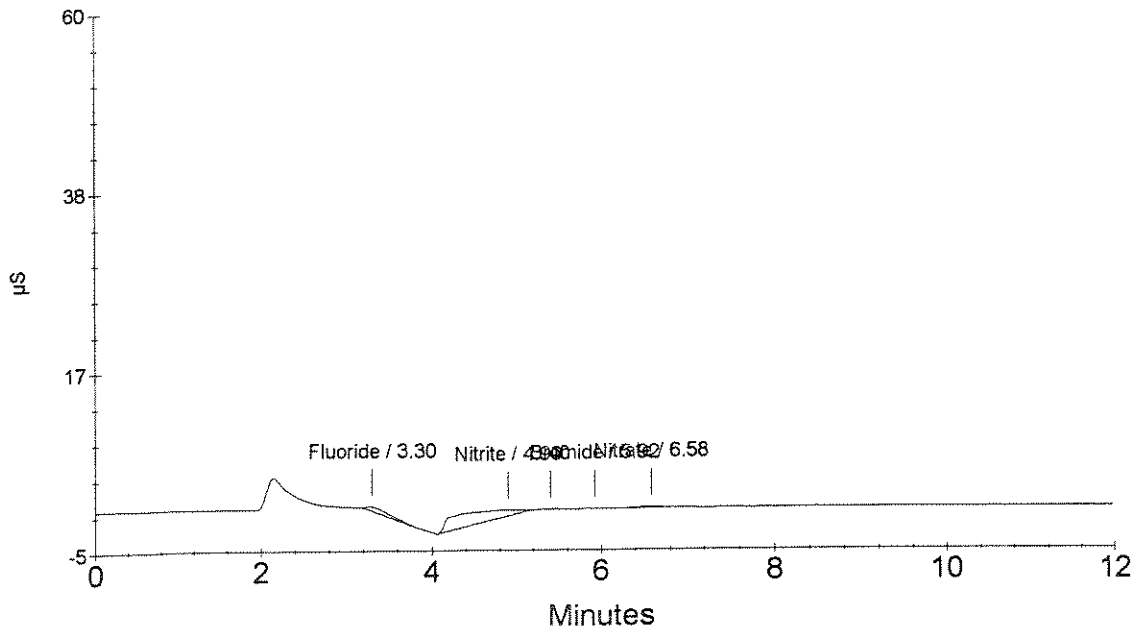
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride Chloride	0.213	104700
2	4.90	Nitrite	0.827	667482
4	5.92	Bromide	0.033	7069
5	6.58	Nitrate Sulfate	0.101	23796

NO

Sample needs dilution

TC 6/30/08

PBW-M3450097



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Sample Name : LCSW-M3450097
 Data File Name : ...\\0627_006.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/27/08 11:55:26

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 4.00
 Sample Type : Sample Analysis
 Sample Comment : SULFUR DIGEST

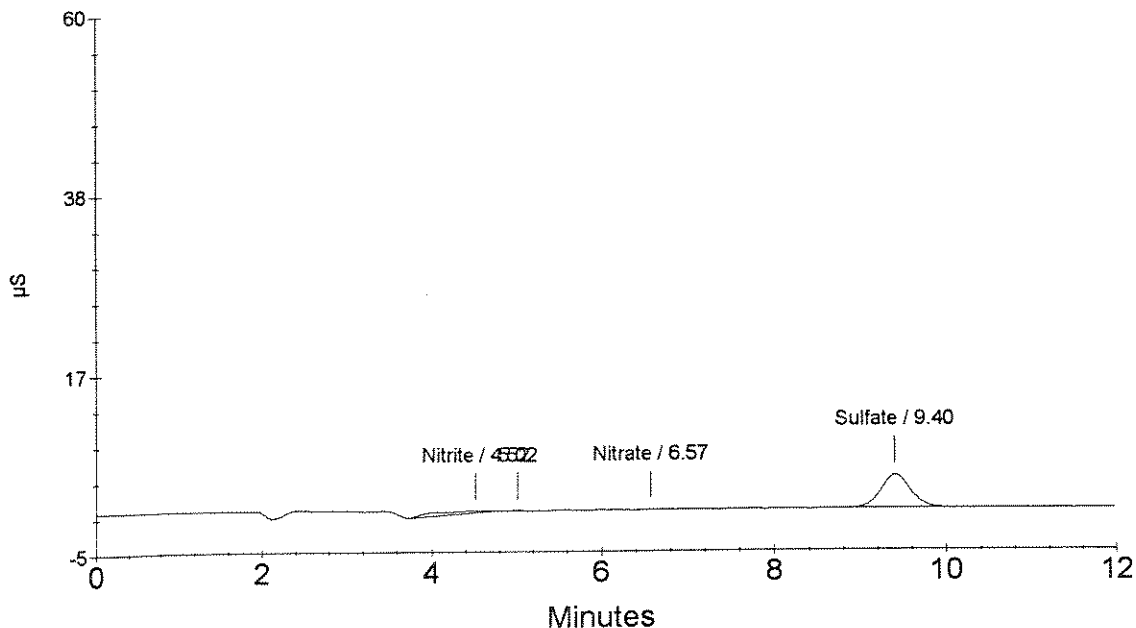
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.52	Nitrite Chloride	0.891	151200
1	4.52	Nitrite Bromide	0.891	151200
3	6.57	Nitrate	0.332	5846
4	9.40	Sulfate	14.541	945839

*NO-
 Sample needs dilution
 TC 6/30/08*

LCSW-M3450097



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Sample Name : LCSW-DUP
Data File Name : ...\\0627_007.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/27/08 12:09:41

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 4.00
Sample Type : Sample Analysis
Sample Comment : SULFUR DIGEST

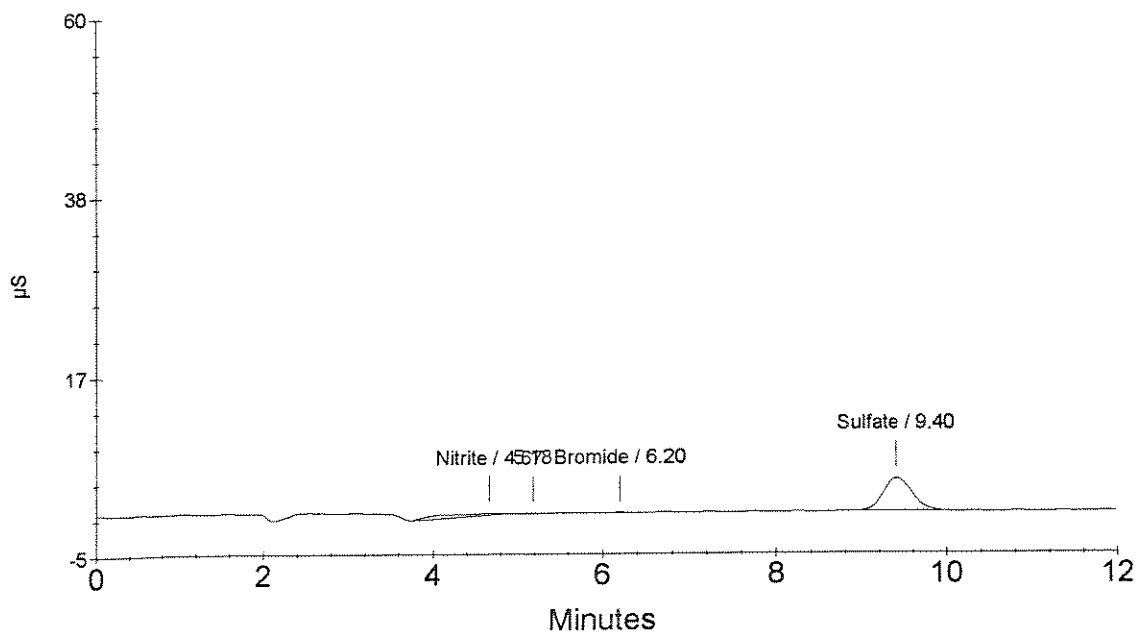
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.67	Nitrite Chloride	1.026	179926
1	4.67	Nitrite	1.026	179926
3	6.20	Bromide	0.117	6526
4	9.40	Nitrate Sulfate	14.550	946433

NO-Sample needs dilution TC 6/30/08

LCSW-DUP



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111908 R-44641
 Data File Name : ... \0627_008.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/27/08 12:23:55

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

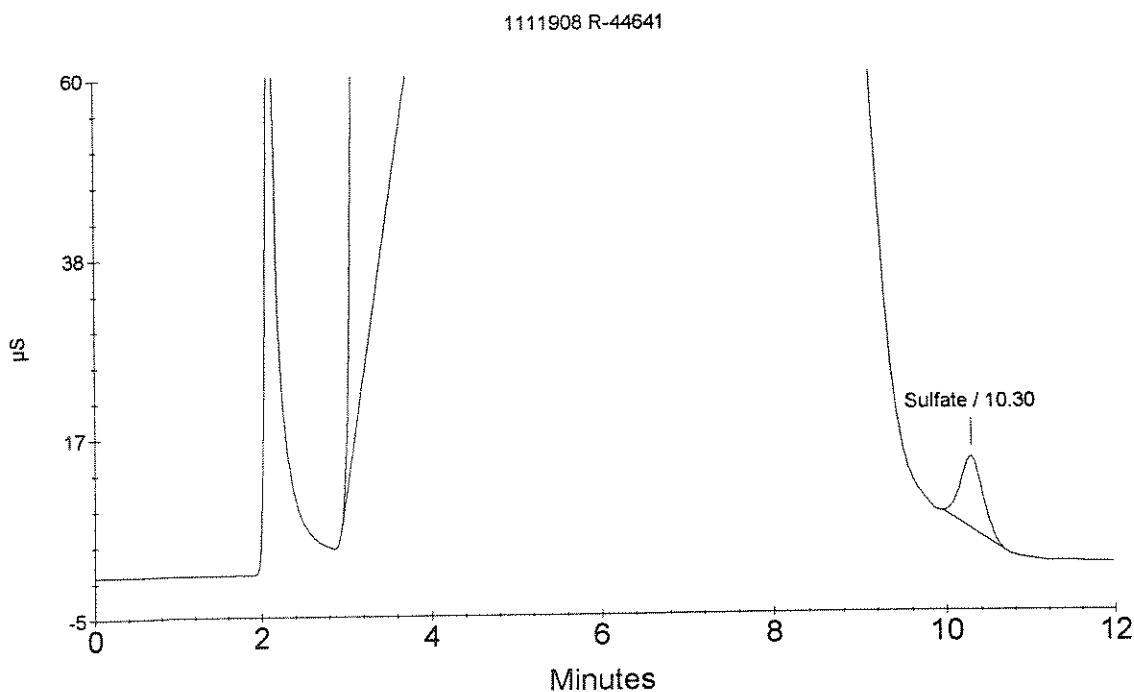
Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : SULFUR DIGEST

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	5.48	Bromide Chloride Nitrite	16679.870	2562967132
1	5.48	Bromide	16679.870	2562967132
2	6.78	Nitrate	10.559	10577305
5	10.30	Sulfate	5.962	1564055

1/4
TC 6/30/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1110960 R-44605
 Data File Name : ...\\0627_009.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/27/08 12:38:11

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1000.00
 Sample Type : Sample Analysis
 Sample Comment : S

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

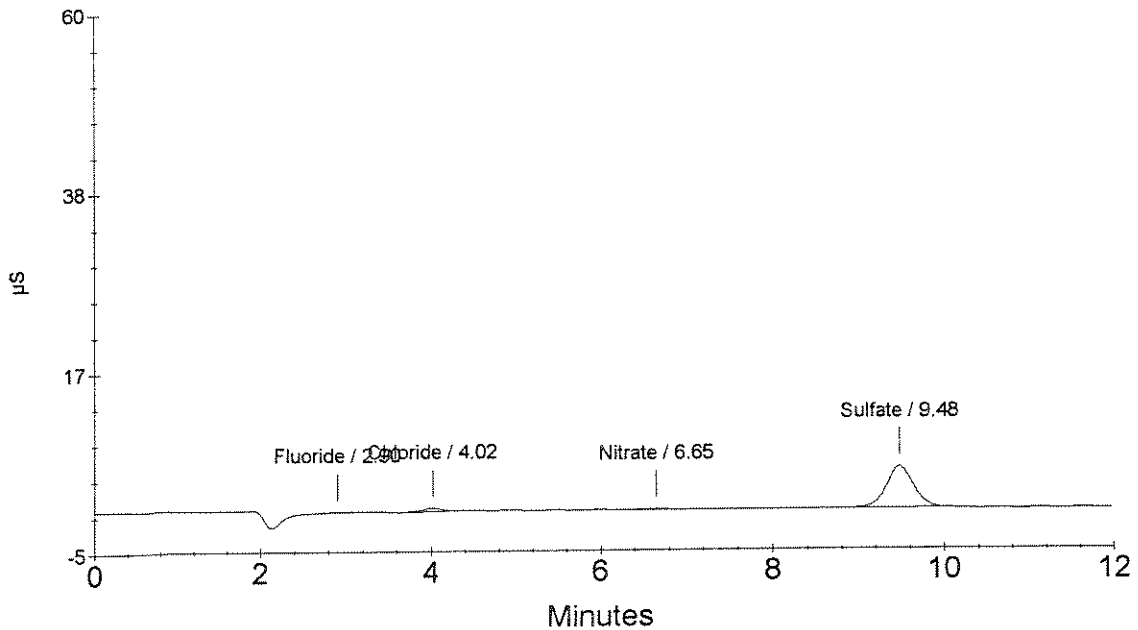
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.90	Fluoride	57.924	12137
2	4.02	Chloride Nitrite Bromide	207.549	60992
3	6.65	Nitrate	95.006	17924
4	9.48	Sulfate	4192.922	1093969

OK

TC 6/30/08

1110960 R-44605



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1110963
 Data File Name : ... \0627_010.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/27/08 12:52:27

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : S

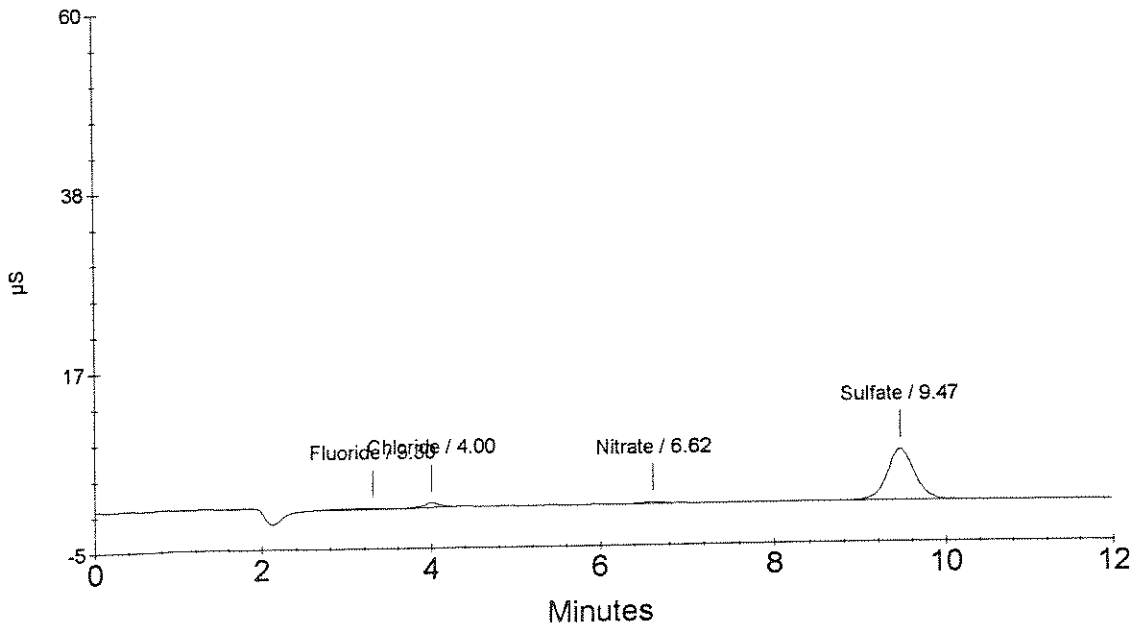
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	11.943	48846
2	4.00	Chloride Nitrite Bromide	24.698	77715
3	6.62	Nitrate	10.679	29813
4	9.47	Sulfate	OK 527.620	1381766

TC 6/30/08

1110963



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1110963 DUP
 Data File Name : ... \0627_011.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/27/08 13:06:49

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

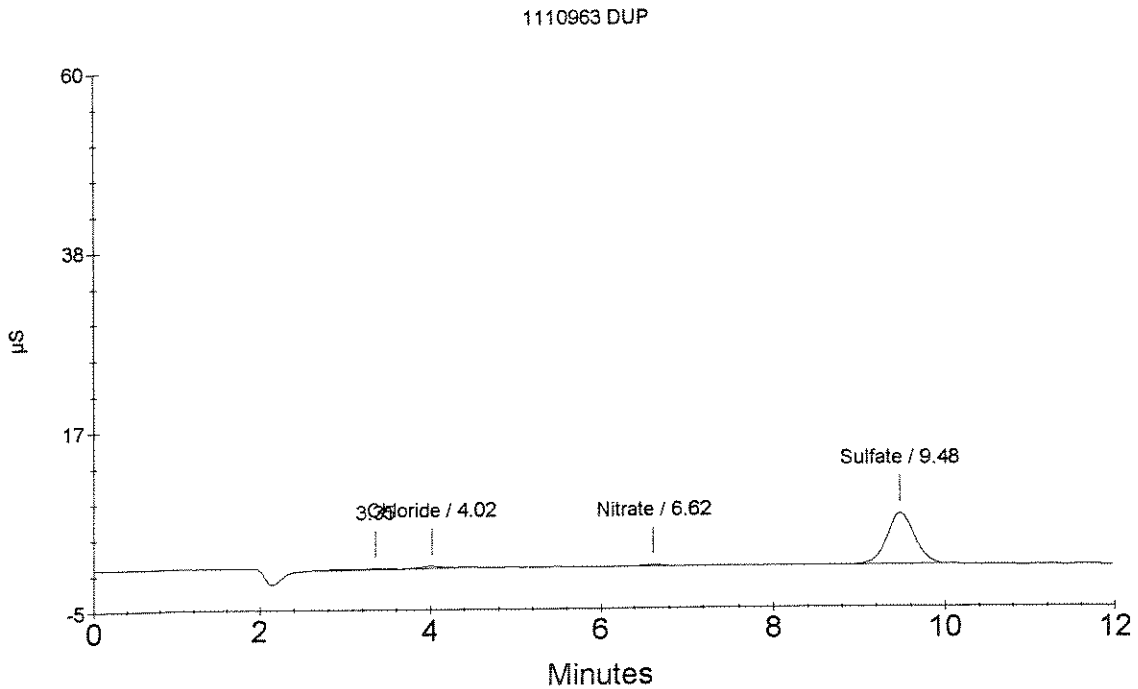
Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : S

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.35		0.000	54637
2	4.02	Chloride Nitrite Bromide	17.257	46161
3	6.62	Nitrate	10.369	26692
4	9.48	Sulfate	521.065	1364353

TC 6/30/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1110963 SPK
Data File Name : ...\\0627_012.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/27/08 13:21:04

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : S

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

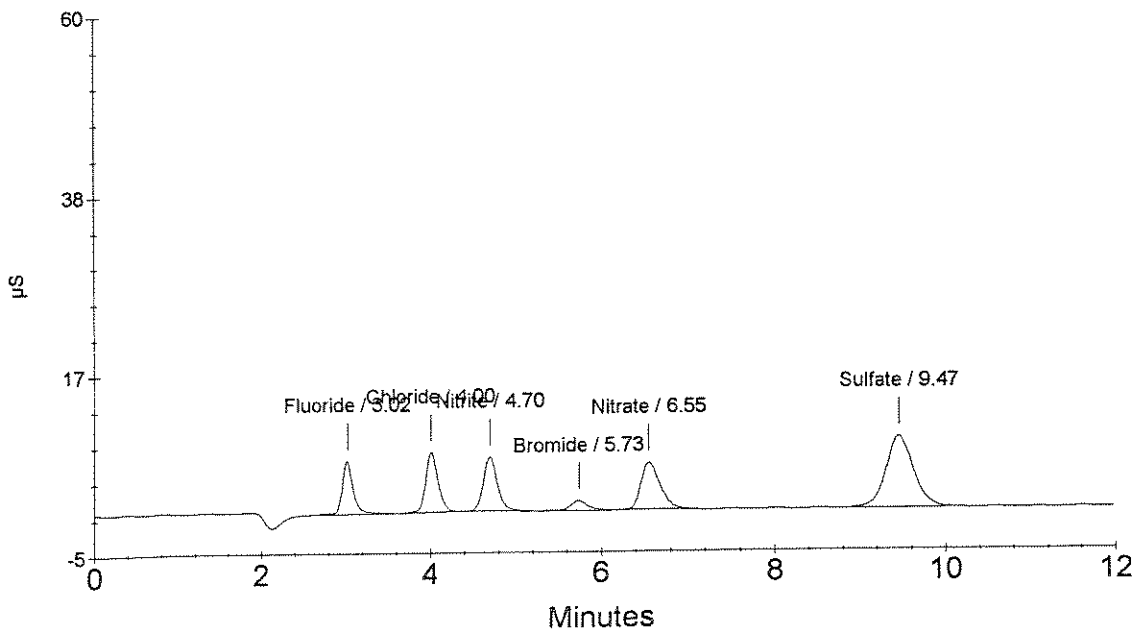
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	99.897	573802
2	4.00	Chloride	179.162	732722
3	4.70	Nitrite	90.111	731069
4	5.73	Bromide	101.614	158149
5	6.55	Nitrate	93.699	867603
6	9.47	Sulfate	OK 720.198	1893393

$\frac{527.620}{200} \times 100 = 96.3\%$

TC 6/30/08

1110963 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : DGC-1S
Data File Name : ...\\0627_013.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/27/08 13:35:19

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

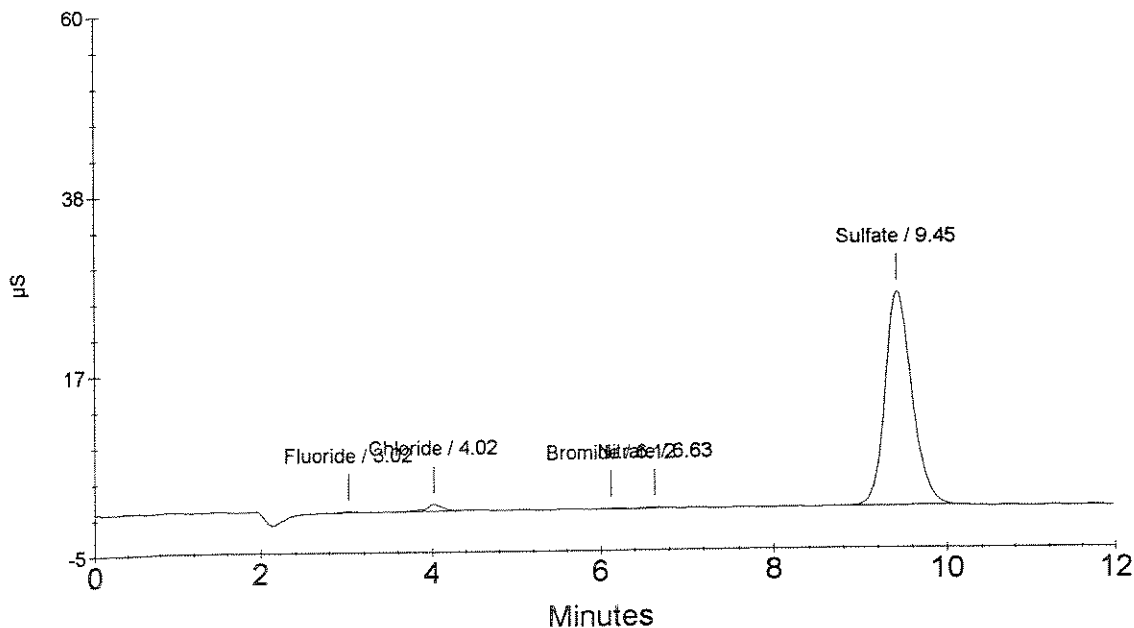
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	0.617	14385
2	4.02	Chloride Nitrite	3.344	114766
3	6.12	Bromide OIL	0.356	7488
4	6.63	Nitrate	0.928	15716
5	9.45	Sulfate	209.640	5549576

TC 6/30/08

DGC-1S

1113042



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CHA-7S
Data File Name : ...\\0627_014.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/27/08 13:49:35

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

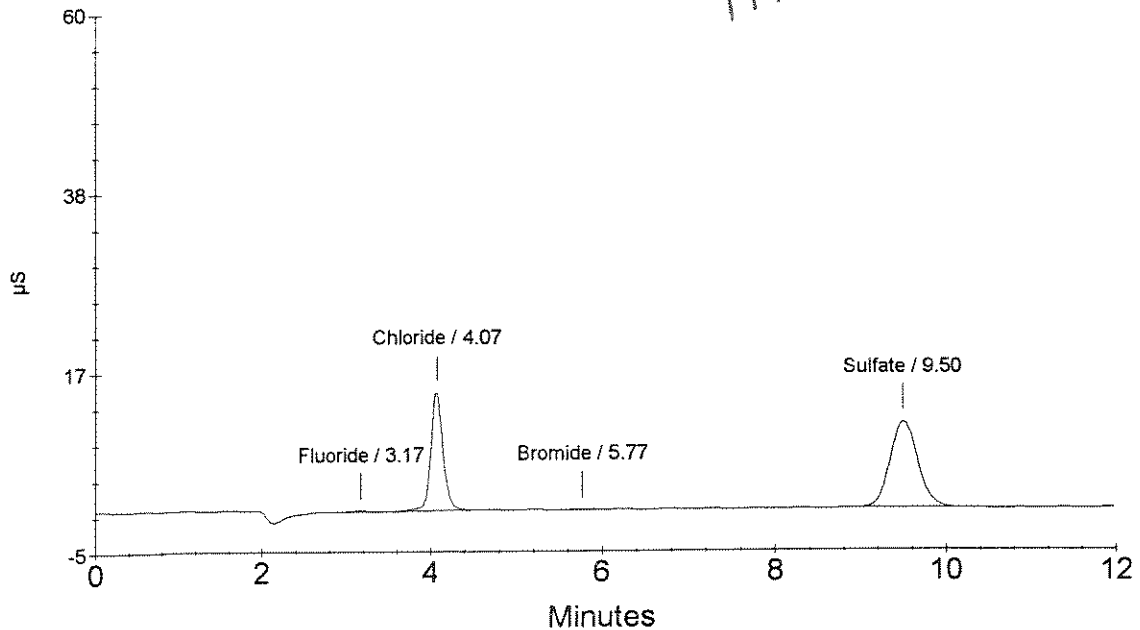
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.669	17465
2	4.07	Chloride	34.358	1429932
3	5.77	Nitrite Bromide	0.535	10239
4	9.50	Nitrate Sulfate	87.274	2298644

TC 6/30/08

CHA-7S

1113043



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : DGC-4S
Data File Name : ...\\0627_015.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/27/08 14:03:51

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

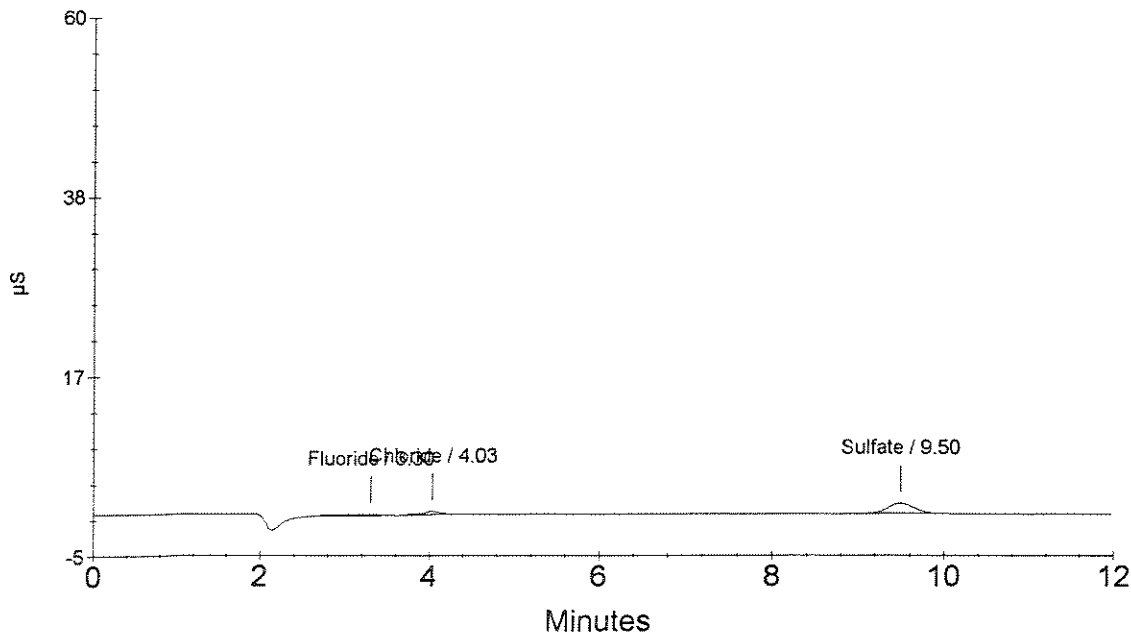
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	1.115	44114
2	4.03	Chloride	1.954	55858
		Nitrite		
		Bromide		
		Nitrate		
3	9.50	Sulfate	10.045	246894

TC 6/30/08

1113044

DGC-4S



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : TCC-1
 Data File Name : ...\\0627_016.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/27/08 14:18:06

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

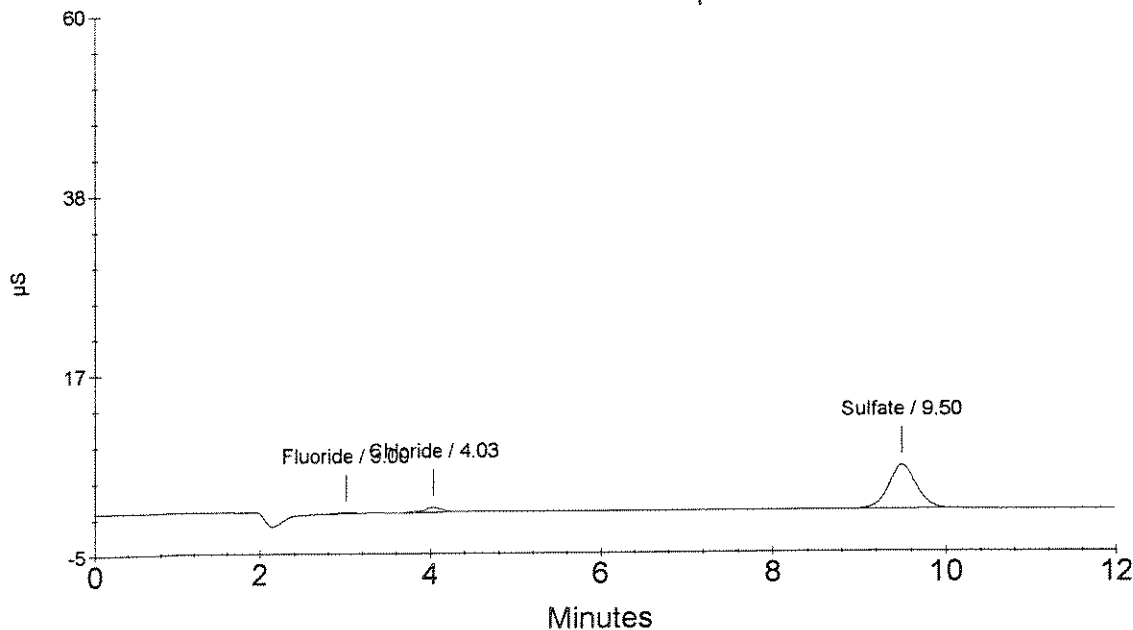
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	0.586	12564
2	4.03	Chloride Nitrite Bromide Nitrate	2.798	91621
3	9.50	Sulfate	44.062	1150628

TC 6/30/08

TCC-1

1113045



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\0627_017.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/27/08 14:32:23

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

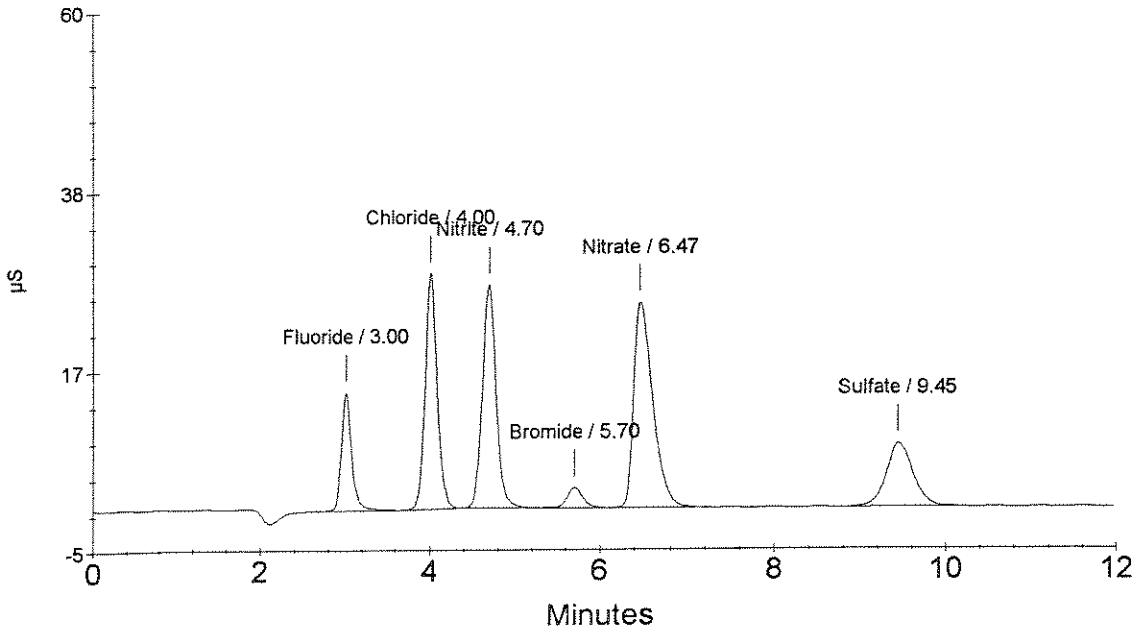
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	2.071	1213772
2	4.00	Chloride	6.604	2773537
3	4.70	Nitrite	3.562	3005816
4	5.70	Bromide	1.988	307468
5	6.47	Nitrate	3.730	3686408
6	9.45	Sulfate	6.430	1688321

OK
↓

TC 6/28/08

CCV



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCB
 Data File Name : ... \0627_018.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/27/08 14:46:44

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

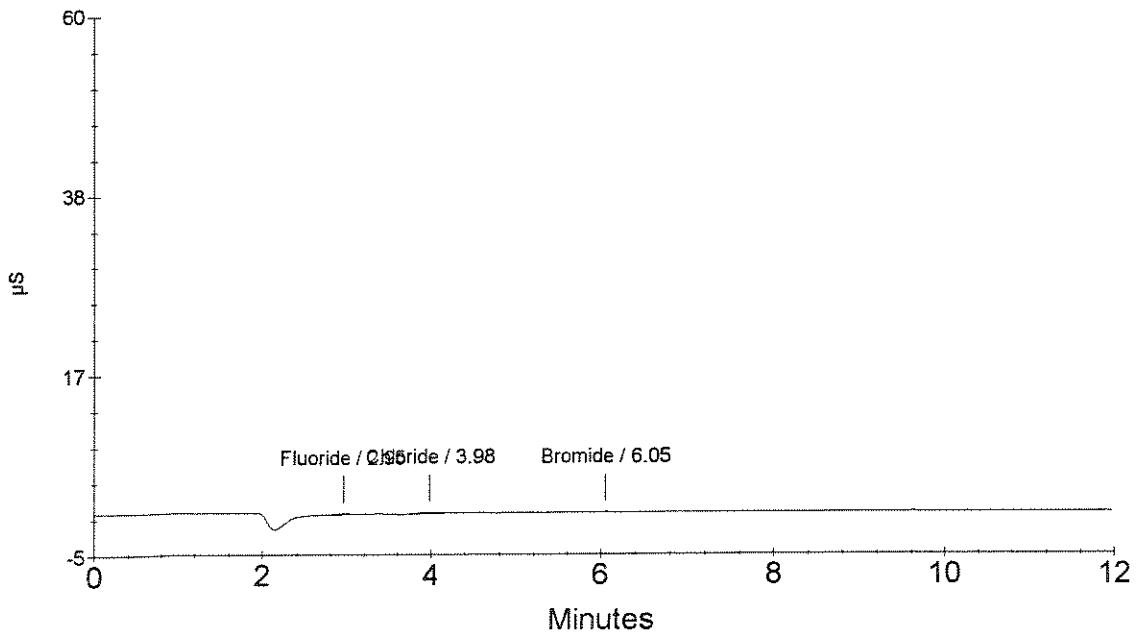
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.95	Fluoride	0.055	10550
2	3.98	Chloride	0.120	23828
3	6.05	Nitrite	0.049	9477
		Bromide		
		Nitrate Sulfate		

OK
↓

TC 6/28/08

CCB



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : TCC-2
 Data File Name : ...\\0627_019.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/27/08 15:00:59

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

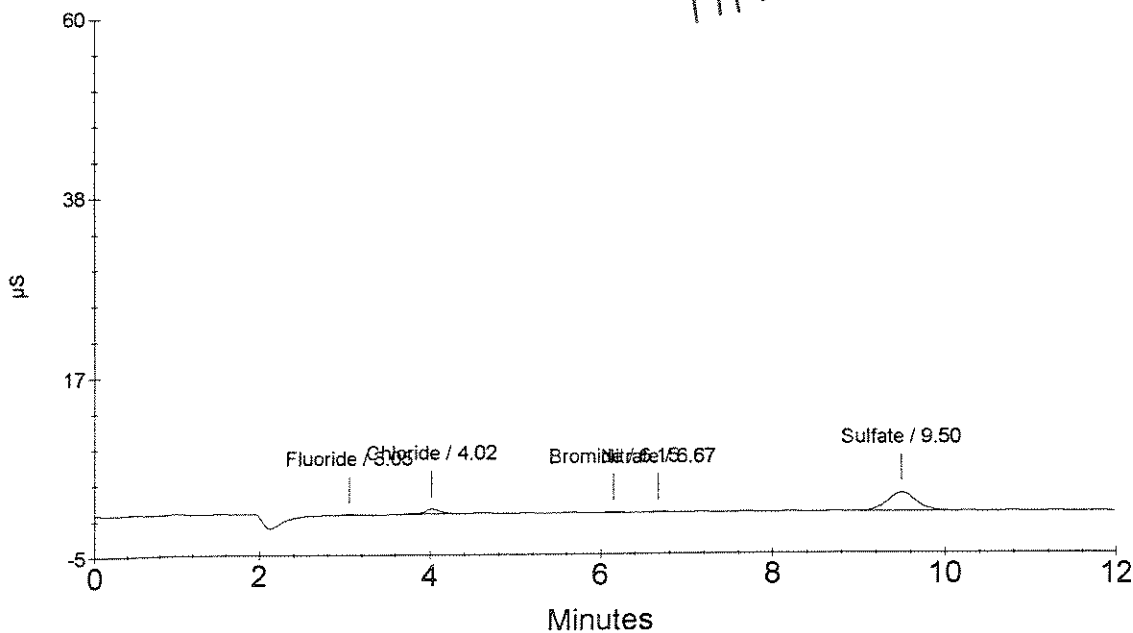
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.05	Fluoride	0.731	21216
2	4.02	Chloride	2.670	86191
		Nitrite		
3	6.15	Bromide	OK 0.554	10532
4	6.67	Nitrate	0.844	7214
5	9.50	Sulfate	19.495	497950

TC 6/28/08
 TCC-2
 1113046



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : TCC-2 DUP
Data File Name : ...\\0627_020.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/27/08 15:15:19

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

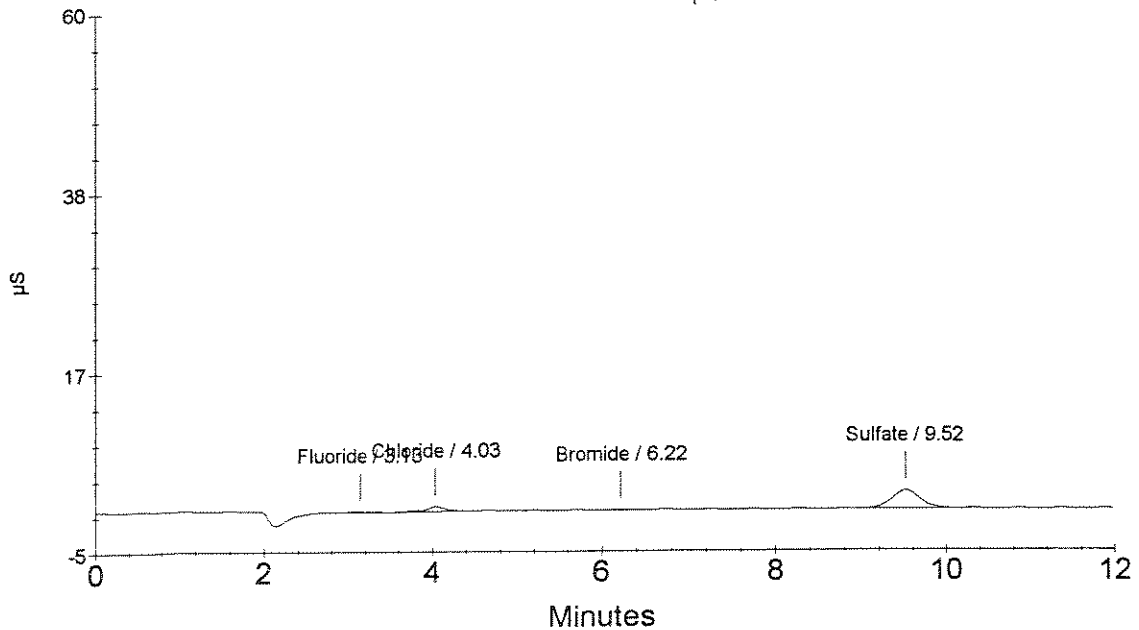
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.13	Fluoride	0.705	19655
2	4.03	Chloride	2.909	96333
3	6.22	Nitrite Bromide	OK 0.445	8852
4	9.52	Nitrate Sulfate	19.541	499187

TCC-2 DUP
6/28/08
1113046 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : TCC-2 SPK
Data File Name : ... \0627_021.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/27/08 15:29:36

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

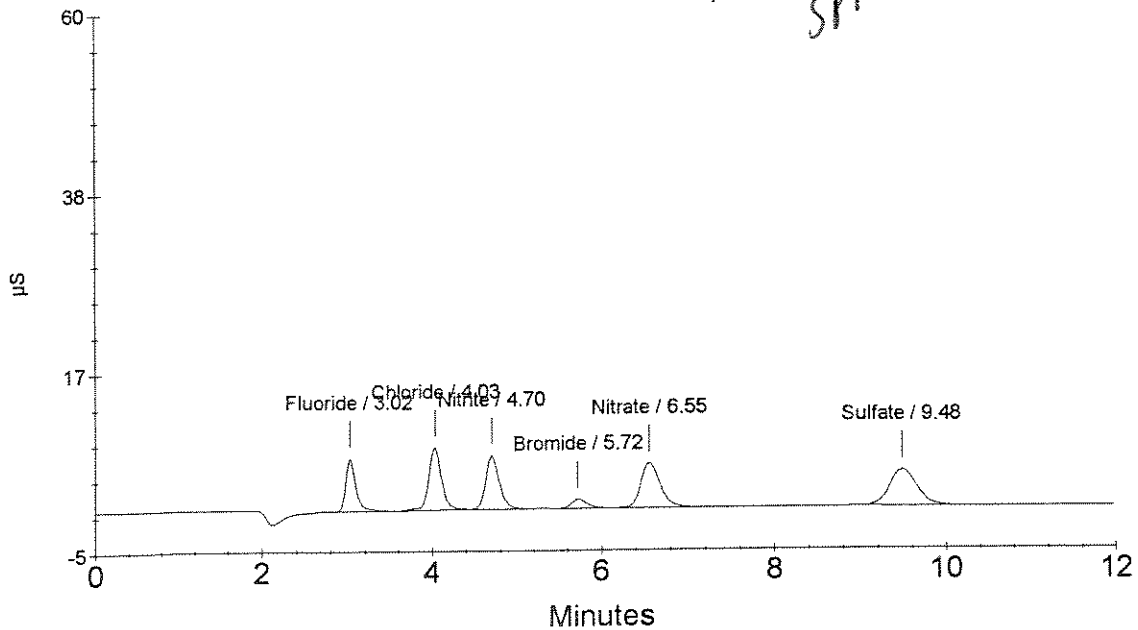
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	9.001	514799
2	4.03	Chloride	19.074	781821
3	4.70	Nitrite	8.717	705962
4	5.72	Bromide	OK 8.474	132228
5	6.55	Nitrate	8.861	816246
6	9.48	Sulfate	37.066	964758

$\frac{0.554}{10} \times 100 = 5.54\%$

TC 6/28/08
TCC-2 SPK
1113046
SPK



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : SW-1
 Data File Name : ...\\0627_022.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/27/08 15:43:57

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

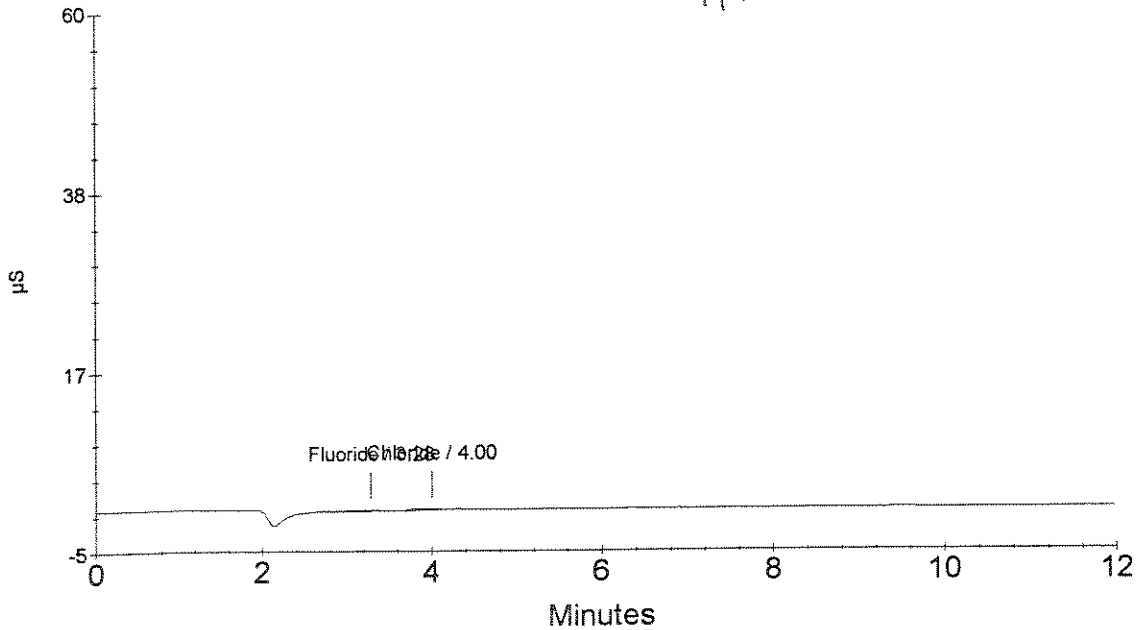
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.28	Fluoride	1.123	44593
2	4.00	Chloride	1.422	33265
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK

TC 6/28/08
 SW-1 1113047



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CHA-7S DUP
Data File Name : ...\\0627_023.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/27/08 15:58:14

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

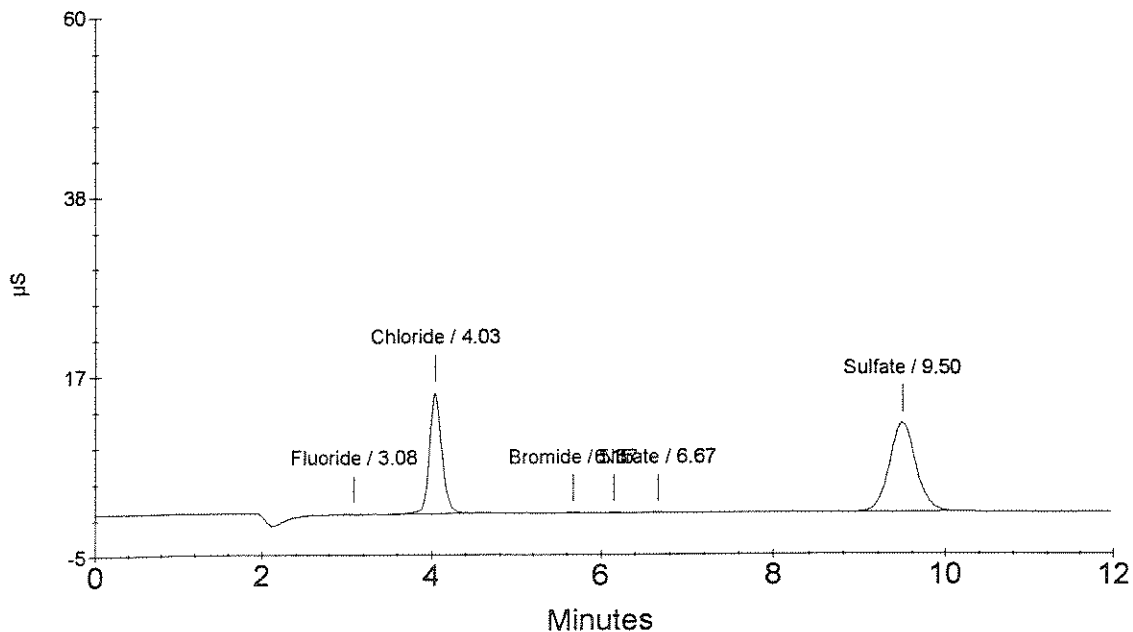
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.08	Fluoride	0.541	9861
2	4.03	Chloride	34.933	1454303
		Nitrite		
3	5.67	Bromide	<i>OK</i> 0.450	8934
5	6.67	Nitrate	0.845	7330
6	9.50	Sulfate	88.722	2337135

70 6/28/08
1113048
CHA-7S DUP



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1112871 R-44650
 Data File Name : ...\\0627_024.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/27/08 16:12:29

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

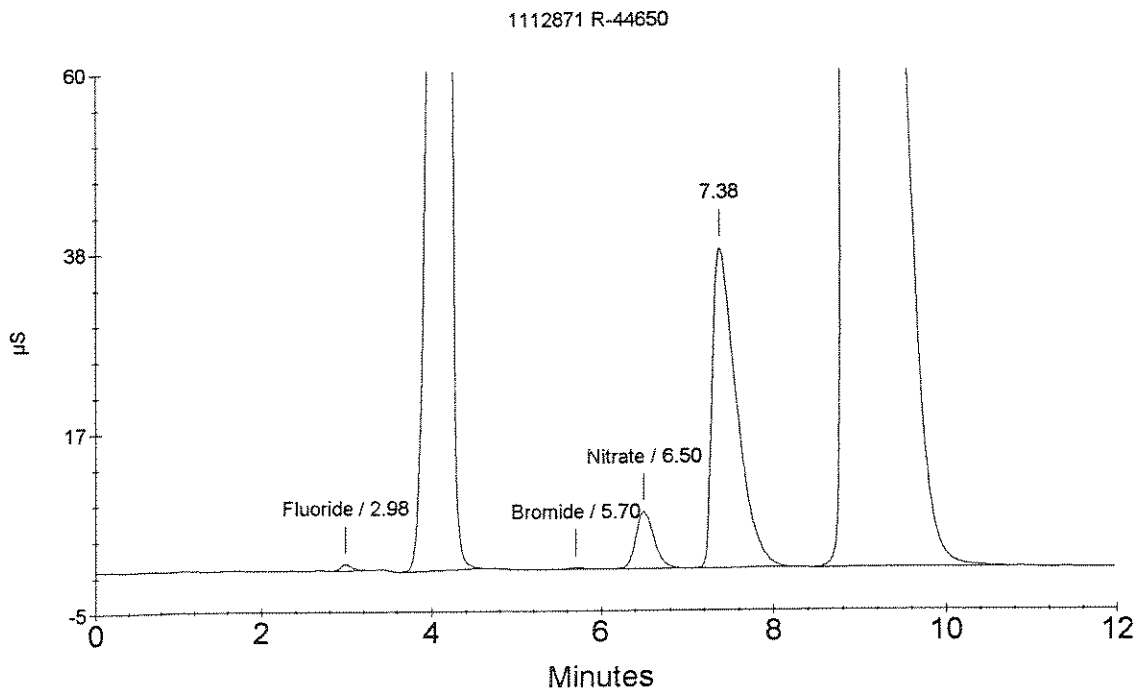
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.98	Fluoride	1.608	73568
2	4.15	Chloride Nitrite	888.884	37666329
3	5.70	Bromide	1.688	27950
4	6.50	Nitrate	10.748	1006652
6	8.97	Sulfate	3869.866	102791757

OK

TC 6/28/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1112872
 Data File Name : ... \0627_025.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/27/08 16:26:45

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

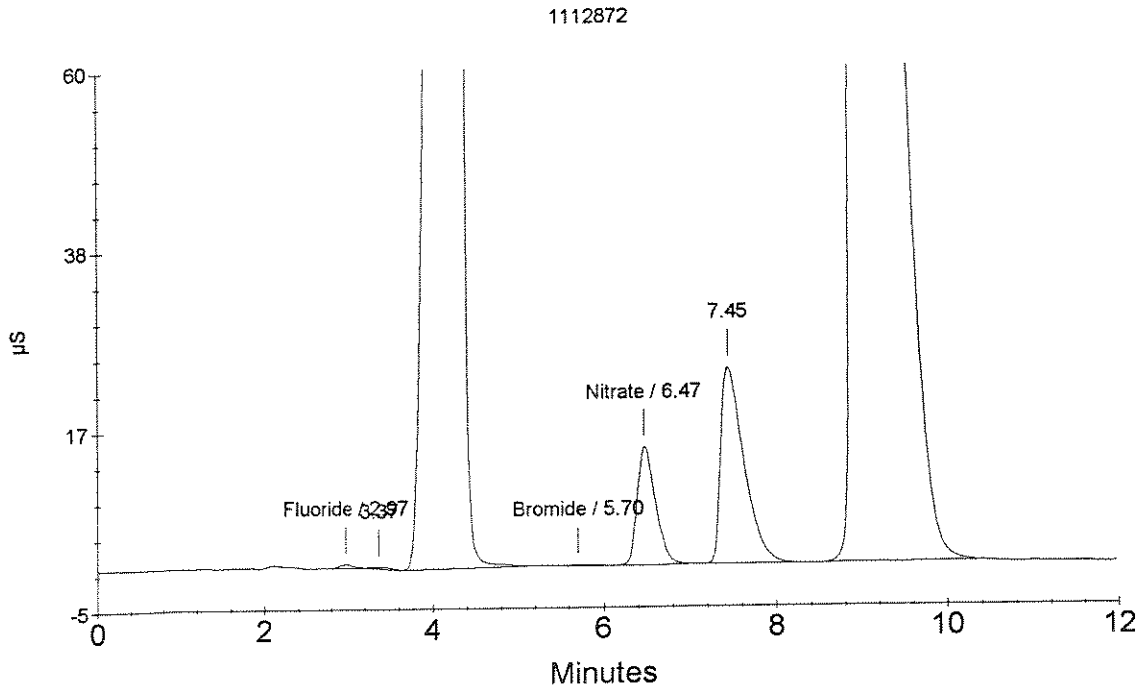
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.97	Fluoride	1.119	44351
3	4.28	Chloride	1979.124	83898228
		Nitrite		
4	5.70	Bromide	OK 1.187	20247
5	6.47	Nitrate	21.651	2106961
7	9.03	Sulfate	3143.096	83483476

TC 6/28/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1112874
 Data File Name : ...\\0627_026.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/27/08 16:41:00

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

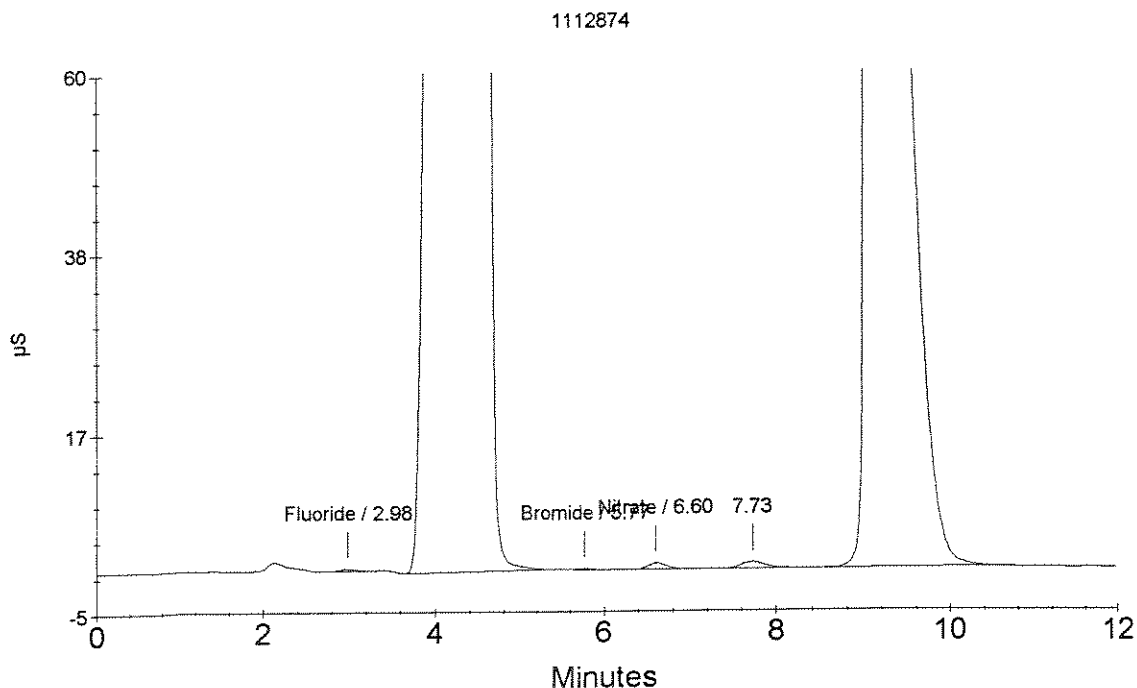
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.98	Fluoride Chloride	0.841	27750
2	4.55	Nitrite	2291.381	195847652
3	5.77	Bromide	0.464	9142
4	6.60	Nitrate	1.863	110054
6	9.17	Sulfate	2214.434	58811457

OK

TC 06/28/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112874 DUP
Data File Name : ...\\0627_027.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/27/08 16:55:17

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

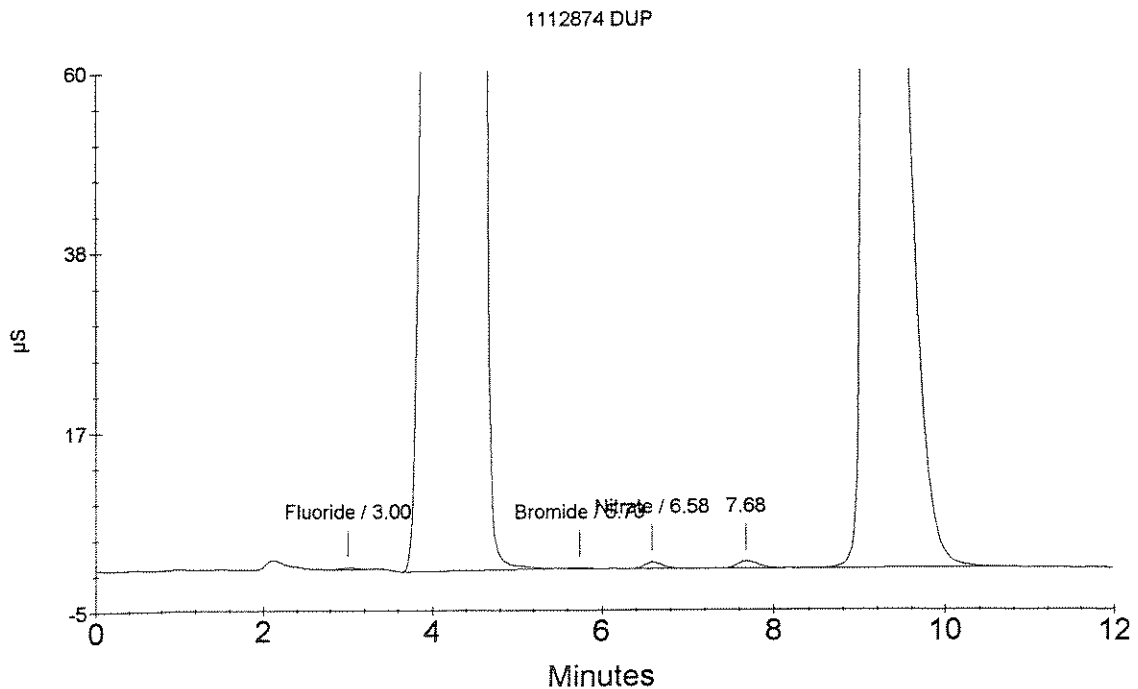
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride Chloride	0.814	26156
2	4.53	Nitrite	2260.042	193168477
3	5.73	Bromide	OK 1.195	20373
4	6.58	Nitrate	1.852	108903
6	9.17	Sulfate	2181.008	57923418

TC 6/30/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112874 SPK
Data File Name : ...\\0627_028.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/27/08 17:09:32

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

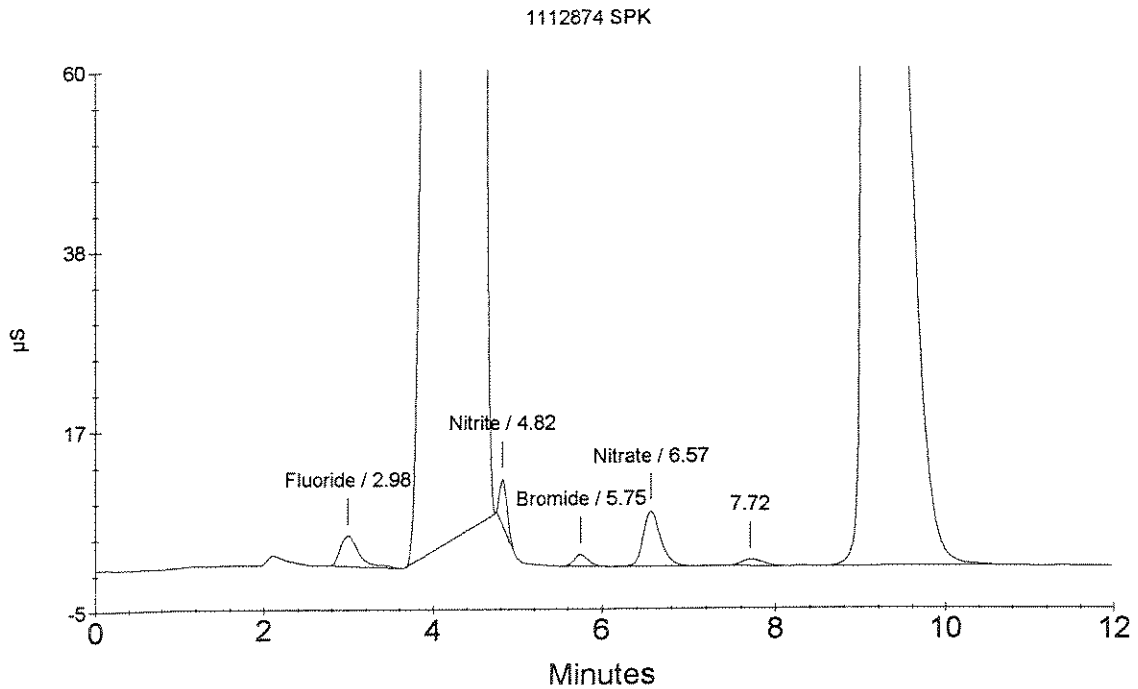
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.98	Fluoride Chloride	10.045	577098
3	4.82	Nitrite	4.511	346339
4	5.75	Bromide	10.460	162745
5	6.57	Nitrate	10.099	941172
7	9.18	Sulfate	2137.850	56776832

OK $\frac{0.464}{10} \times 100 = 4.64\%$

TC 6/28/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCV
 Data File Name : ... \0627_029.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/27/08 17:23:48

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

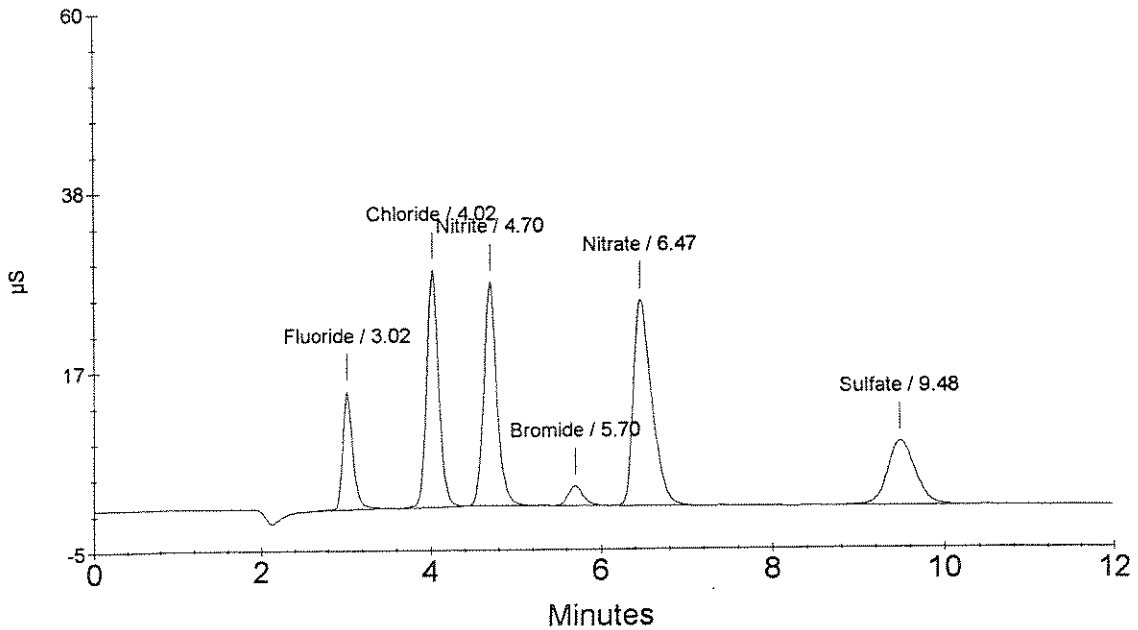
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	1.978	1158117
2	4.02	Chloride	6.612	2776795
3	4.70	Nitrite	3.435	2897298
4	5.70	Bromide	1.867	288911
5	6.47	Nitrate	3.776	3732587
6	9.48	Sulfate	6.572	1726095

OK
↓

TC 6/28/08

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ... \0627_030.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/27/08 17:38:03

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

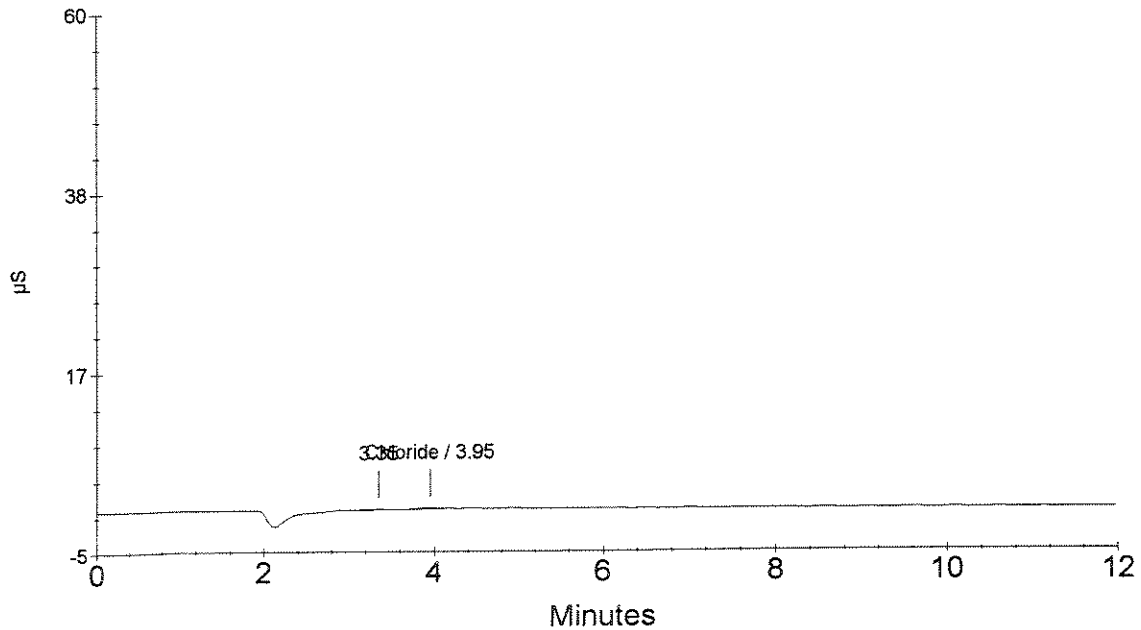
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.35		0.000	14052
2	3.95	Chloride Nitrite Bromide Nitrate Sulfate	0.122	24597

OK
↓
CCB
6/28/08



Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: 06/23/08

Loop size: 100 uL

Analyst: TChrist

Analysis Date: 6/23/08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A		Working Calibration Stds	06/23/08	WC72050I
LCS/MS Intermediate	06/23/08	WC72050A		Working LCS/MS Standard	06/23/08	WC72093C
ICV Intermediate	06/23/08	WC90100A		Working ICV Standard	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A		Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

WORKING LCS PREP
 (Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mL sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC720050A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC720093C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC720093D
NO3		50			1.0	CMW	7/13/08	E	7/16/08	WC720093E
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: 06/10/08

Loop size: 100 uL

Analyst: Tracy Christ

Analysis Date: 6/23/08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A		Working Calibration Stds	06/10/08	WC72050I
LCS / MS Intermediate	06/23/08	WC72050A		Working LCS/MS Standard	06/23/08	WC72093C
ICV Intermediate	06/23/08	WC90100A		Working ICV Standard	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A		Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

CALIBRATION INTERMEDIATE STOCK PREP

(used for Calibration and LCS / MS)

Analyte	1000ppm Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date	Final Calibration Intermediate Stock ID
F	WC85099F	1000	10	200	50	TC	6/10/08	A	12/10/08	WC720050A
Cl	WC85106C	1000	20		100			B		
NO2	WC72001J	1000	10		50			C		
Br	WC85160D	1000	10	12/10/08	50			D		
NO3	WC72002N	1000	10		50			E		
OPO4	---	1000	10		50			F		
SO4	WC72001Y	1000	20		100			G		

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WORKING CALIBRATION STANDARDS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. Expire after 7 days.)

Std #	Calibration Intermediate Stock ID	mLs Intermediate Stock	Final Vol. mLs	Final Std Conc.				Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
				F	Cl	NO2	Br					
9		10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	5.0	10.0	TC 6/17/08 WC720050H
8		8.0		4.0	8.0	4.0	4.0	4.0	4.0	4.0	8.0	TC 6/23/08 WC720050I
7		2.0	205.0 OK 12/13/08	2.5	5.0	2.5	2.5	2.5	2.5	2.5	5.0	
6		1.0		1.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0	
5		0.5		0.5	1.0	0.5	0.5	0.5	0.5	0.5	1.0	
4		0.2		0.25	0.50	0.25	0.25	0.25	0.25	0.25	0.50	
3		0.1		0.10	0.20	0.10	0.10	0.10	0.10	0.10	0.20	
2		0.0		0.05	0.10	0.05	0.05	0.05	0.05	0.05	0.10	
1		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

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WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mL sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC720093A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC720093C
Br		50			1.0			D		
NO3		50			1.0			E		
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

ICV / CCV INTERMEDIATE STOCK PREP

Analyte	ICV / CCV Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date	Final ICV / CCV Intermediate Stock ID
F	WC 85037C	1000	4.0	1000	4.0	TC	6/23/08	A	9/25/08	WC 90100A
Cl	WC 85106D	650	20.0		13.0			B		
NO2	WC 72007F	180	40.0		7.2			C		
Br	WC 85557D	1000	4.0		4.0			D		
NO3	WC 72007N	180	40.0		7.2			E		
OPO4		180	40.0		7.2			F		
SO4	WC 72000Y	3200	4.0		12.8			G		

WORKING ICV / CCV PREP

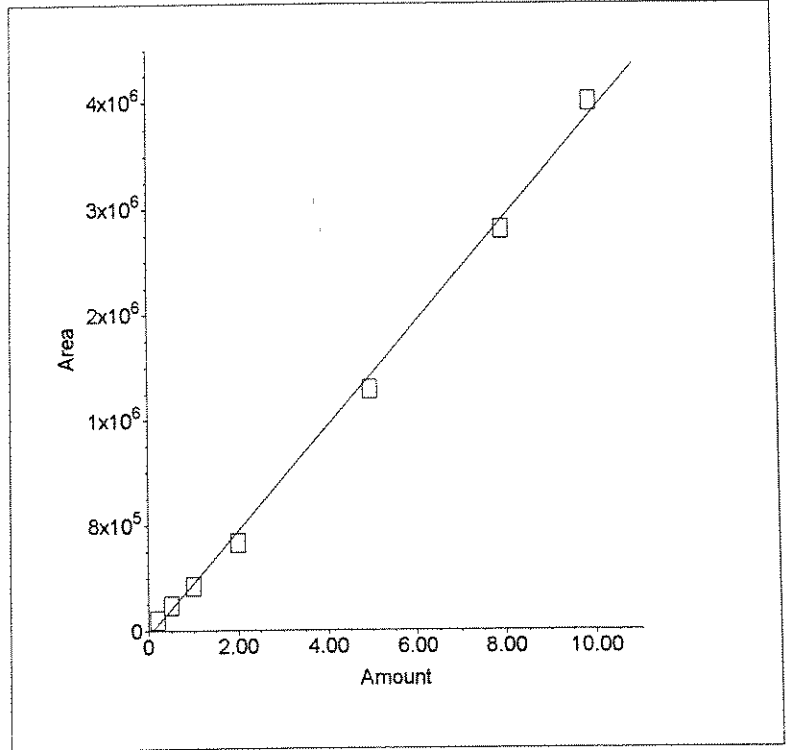
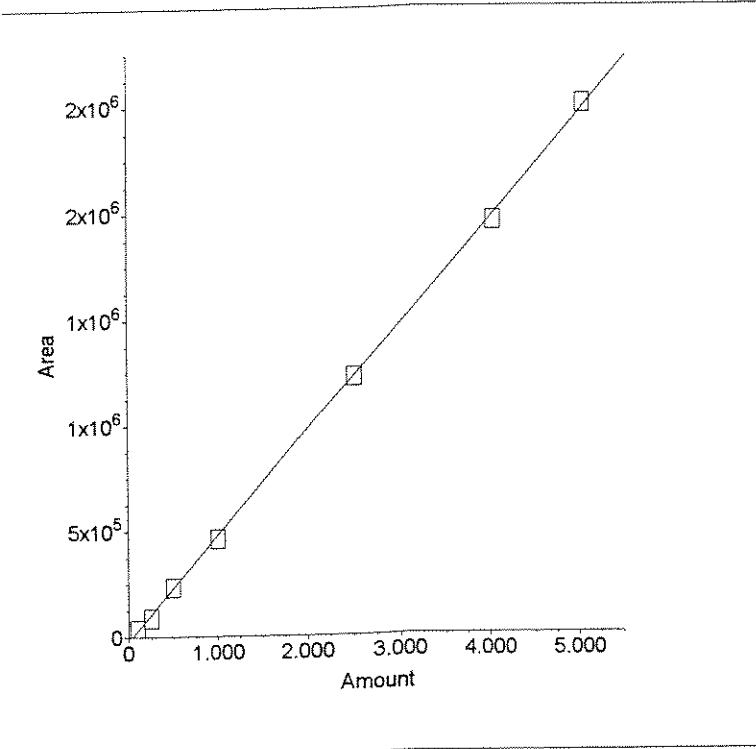
(A 1:2 dilution of the Reference Intermediate Stock is done daily)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Final Working ICV / CCV ID
F	WC 90100A	4.0	5.0	20.0	1.0	TC	DAILY	H	WC 90100H
Cl		13.0			3.25				
NO2		7.2			3.6				
Br		4.0			2.0				
NO3		7.2			3.6				
OPO4		7.2			3.6				
SO4		12.8			6.4				

55825

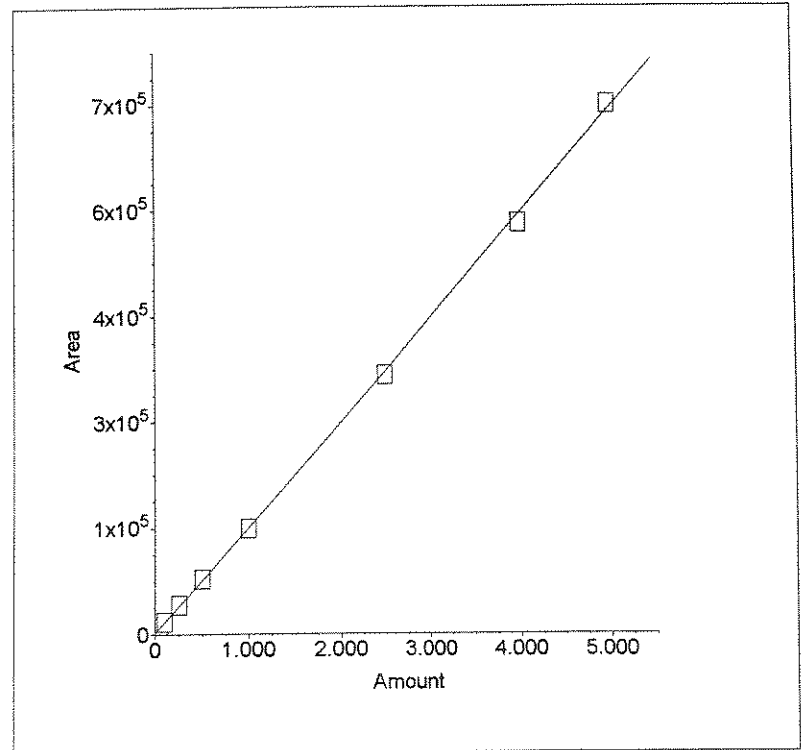
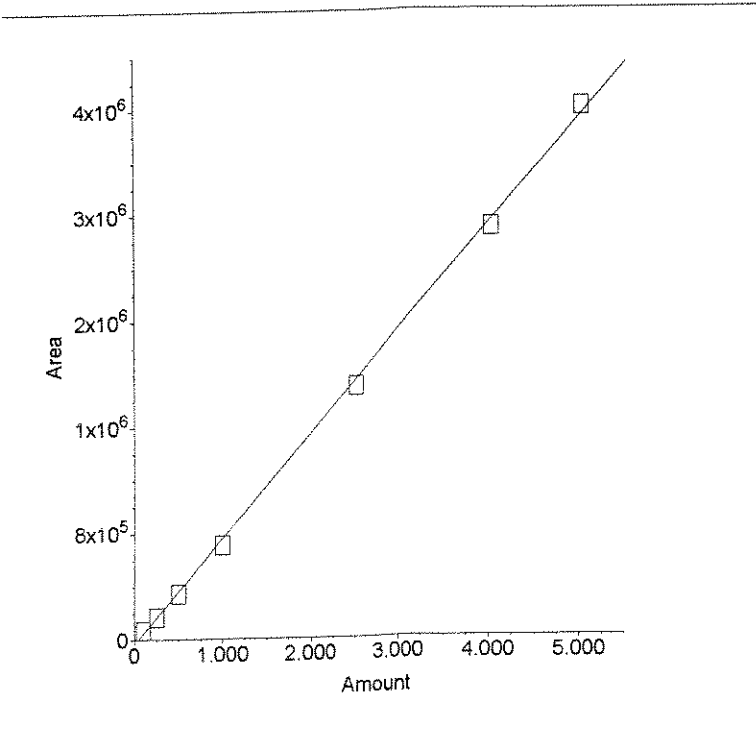
1. Component:Fluoride
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.999665$
Amt= $1.675e-006 * Resp + 0.03759$

2. Component:Chloride
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.997779$
Amt= $2.351e-006 * Resp + 0.08597$



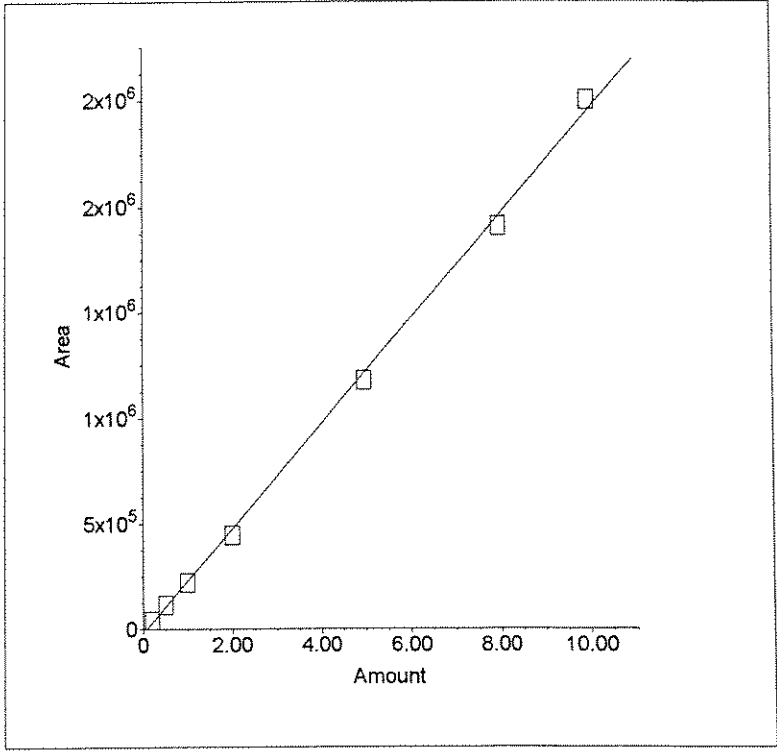
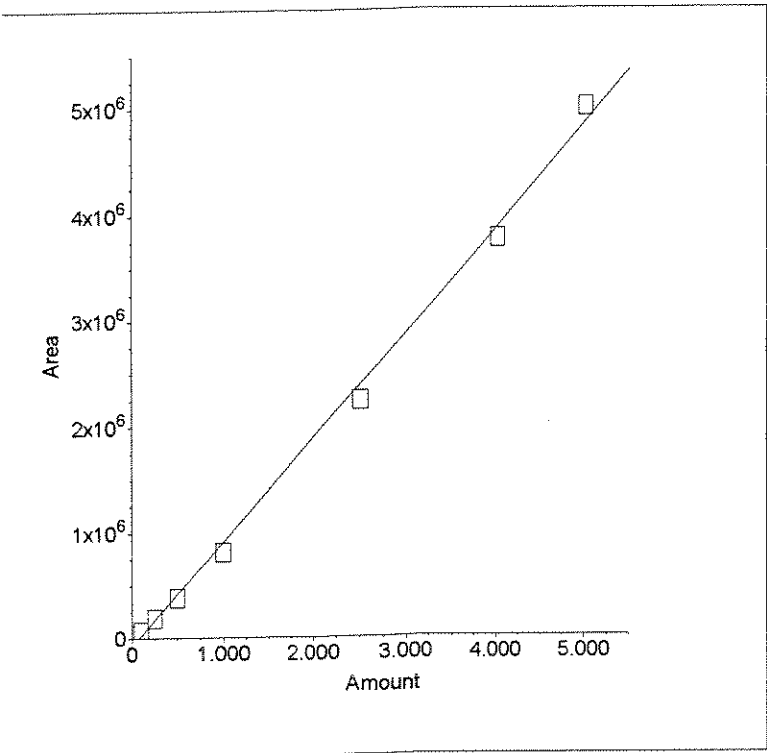
3. Component:Nitrite
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.999196$
Amt= $1.17e-006 * Resp + 0.04595$

4. Component:Bromide
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.999576$
Amt= $6.508e-006 * Resp + -0.0131$



5. Component: Nitrate
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2=0.997377$
Amt= $9.909e-007 * Resp + 0.07724$

6. Component: Sulfate
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2=0.998832$
Amt= $3.764e-006 * Resp + 0.07519$



Method Information : Select Module(s)

System Name : DX-Lan IC#4
System Number : 1
Method Type : Ion Chromatography
Column : AS-14 (022939) AG-14 (022002)
Analyst : T. CHRIST
Comment : Calibration 06.23.2008

ED40 Timed Events

Module Name :
Module Serial Number :
Operating Mode : Conductivity
SRS Current : 100 mA
Temperature Compensation : 1.7
Cell Temperature : 35 °C

Time	Range (μ S)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000	*		Low	Low	Open	Closed	
0.00	10.000	*		Low	Low	Open	Closed	
0.10	10.000			Low	Low	Closed	Closed	
2.20	0.010	*		Low	Low	Open	Closed	Begin

ED40 Detector Parameters

Detector Type : ED40
Data collection time (minutes) : 12.00
Data Collection Rate : 1.00
Real time plot scale maximum (μ S) : 60.000
Real time plot scale minimum (μ S) : -5.000

ED40 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 10.00
Peak threshold : 5.00
Peak area reject (area counts) : 10.00
Reference peak area reject (area counts) : 1000.00

ED40 Smoothing Parameters

Filter Type : No filter

ED40 Report Data

Report Format File : J:\ACQUDATA\IC\METHOD.ACI\lc#4\As14.rpt
Print Sample Analysis : Yes
Print Calibration Update : Yes
Print Check Standard : Yes
System Suitability Tests :
No system suitability tests selected.

ED40 Integration Data Events

Time	Description
0.00	Stop peak detection
2.50	Force baseline at start of all peaks
2.65	Start peak detection
3.03	Halve peak threshold
6.75	Double peak threshold

ED40 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units : mg/L
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

ED40 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.03 min	10.00 %	
Chloride	4.05 min	10.00 %	
Nitrite	4.75 min	10.00 %	
Bromide	5.77 min	10.00 %	
Nitrate	6.55 min	10.00 %	
Sulfate	9.58 min	10.00 %	

ED40 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.03 min	0.05	5
Chloride	4.05 min	0.1	10
Nitrite	4.75 min	0.05	5
Bromide	5.77 min	0.05	5
Nitrate	6.55 min	0.05	5
Sulfate	9.58 min	0.1	10

ED40 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.03 min	Linear	Include	Area		0.00
Chloride	4.05 min	Linear	Include	Area	Fluoride	0.00
Nitrite	4.75 min	Linear	Include	Area	Fluoride	0.00
Bromide	5.77 min	Linear	Include	Area	Fluoride	0.00
Nitrate	6.55 min	Linear	Include	Area	Fluoride	0.00
Sulfate	9.58 min	Linear	Include	Area	Fluoride	0.00

ED40 Component = Fluoride Levels Table

Retention Time : 3.03 min
 Amount units : mg/L
 Replicate unit type : Area
 Number of levels : 9
 Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14479.5 <i>anomaly</i>
2	0.05	20511
3	0.10	43487
4	0.25	105401
5	0.50	280927
6	1.00	552422
7	2.50	1.46795e + 006
8	4.00	2.33476e + 006
9	5.00	2.99043e + 006

ED40 Component = Chloride Levels Table

Retention Time : 4.05 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	24587 <i>anomaly</i>
2	0.10	60631.5
3	0.20	89946.5
4	0.50	211274
5	1.00	372164
6	2.00	726484
7	5.00	1.98111e+006
8	8.00	3.29425e+006
9	10.00	4.33396e+006

ED40 Component = Nitrite Levels Table

Retention Time : 4.75 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	8660 <i>anomaly</i>
2	0.05	33073
3	0.10	69578
4	0.25	180651
5	0.50	368469
6	1.00	765373
7	2.50	2.04825e+006
8	4.00	3.32678e+006
9	5.00	4.30979e+006

ED40 Component = Bromide Levels Table

Retention Time : 5.77 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	27470 <i>anomaly</i>
2	0.05	10012
3	0.10	18904.5
4	0.25	43438
5	0.50	81453
6	1.00	155388
7	2.50	381974
8	4.00	605052
9	5.00	780891

ED40 Component = Nitrate Levels Table

Retention Time : 6.55 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5310.5 <i>anomaly</i>
2	0.05	35011
3	0.10	71578.5
4	0.25	194199
5	0.50	397776
6	1.00	839066
7	2.50	2.30165e + 006
8	4.00	3.85904e + 006
9	5.00	5.12256e + 006

ED40 Component = Sulfate Levels Table

Retention Time : 9.58 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7283 <i>anomaly</i>
2	0.10	24864.5
3	0.20	44110
4	0.50	126543
5	1.00	239635
6	2.00	482251
7	5.00	1.26865e+006
8	8.00	2.05728e+006
9	10.00	2.69691e+006

ED40 XY Data Parameters

GP40 Timed Events

Module Name :

Module Serial Number :

Description : Anions on an AS-16/AG-16 Column setup with a carbonate/bicarbonate eluent.

High Pressure Limit : 4000.0

Low Pressure Limit : 30.0

Eluent A :

Eluent B : 35mM Na₂CO₃ / 10mM NaHCO₃

Eluent C :

Eluent D :

Piston Size : Standard

Pressure Unit : psi

Oven Not Installed

Time	Flow	%A	%B	%C	%D	Curve	Comment
Init	1.00	0.00	100.00	0.00	0.00	5	start AS40 load cycl
0.00	1.00	0.00	100.00	0.00	0.00	5	preparing to inject
0.10	1.00	0.00	100.00	0.00	0.00	5	preparing to inject
2.20	1.00	0.00	100.00	0.00	0.00	5	Injecting sample
3.20	1.00	0.00	100.00	0.00	0.00	5	Finished injection

Time	Valve	Column	TTL1	TTL2	Relay1	Relay2
Init	Load	A	High	Low	Open	Open
0.00	Load	A	High	Low	Open	Open
0.10	Load	A	High	High	Open	Open
2.20	Inject	A	High	Low	Open	Open
3.20	Load	A	Low	Low	Open	Open

Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 1
Sample Type : Calibration Update
Data File Name : ...\\0623_001.DXD
Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 14:13:30
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Comment : ANALYST: TC
Data Collection Rate : 1.00 Hz

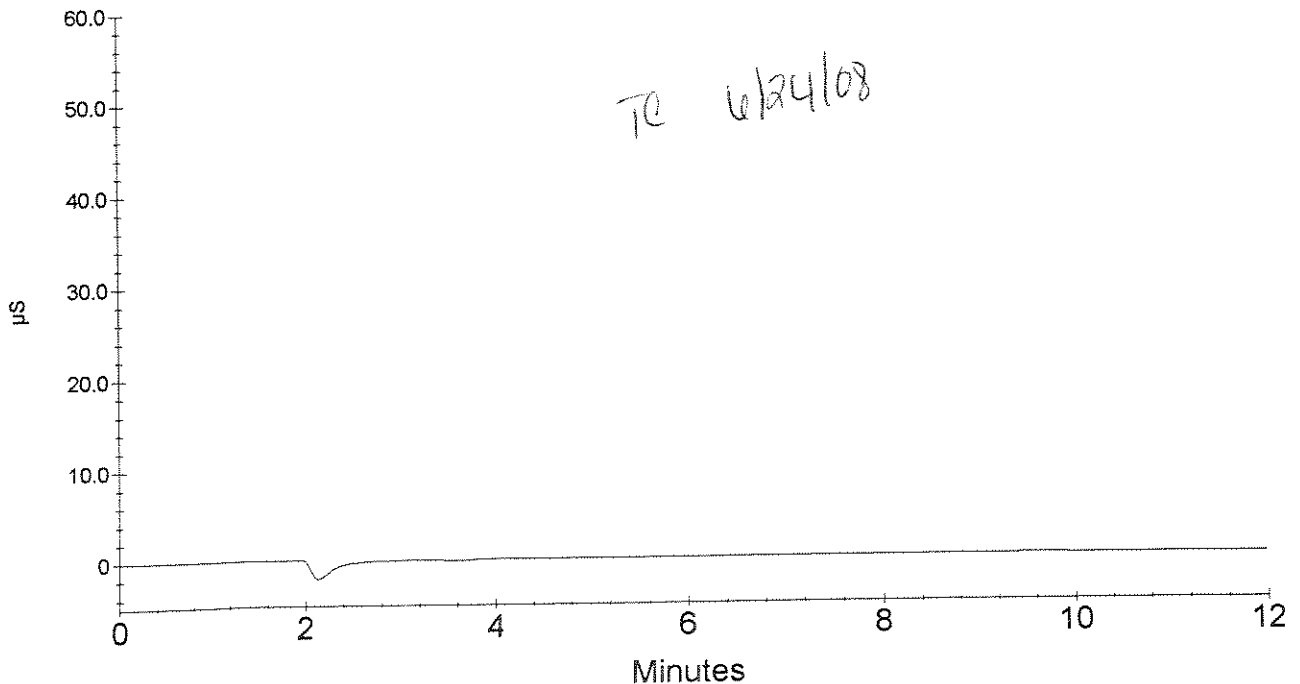
Calibration Type : EXTERNAL
Calibration Level : 1

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.00	0	0.00

OK

STANDARD 1



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 2
 Sample Type : Calibration Update
 Data File Name : ...\\0623_002.DXD
 Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 14:27:46
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

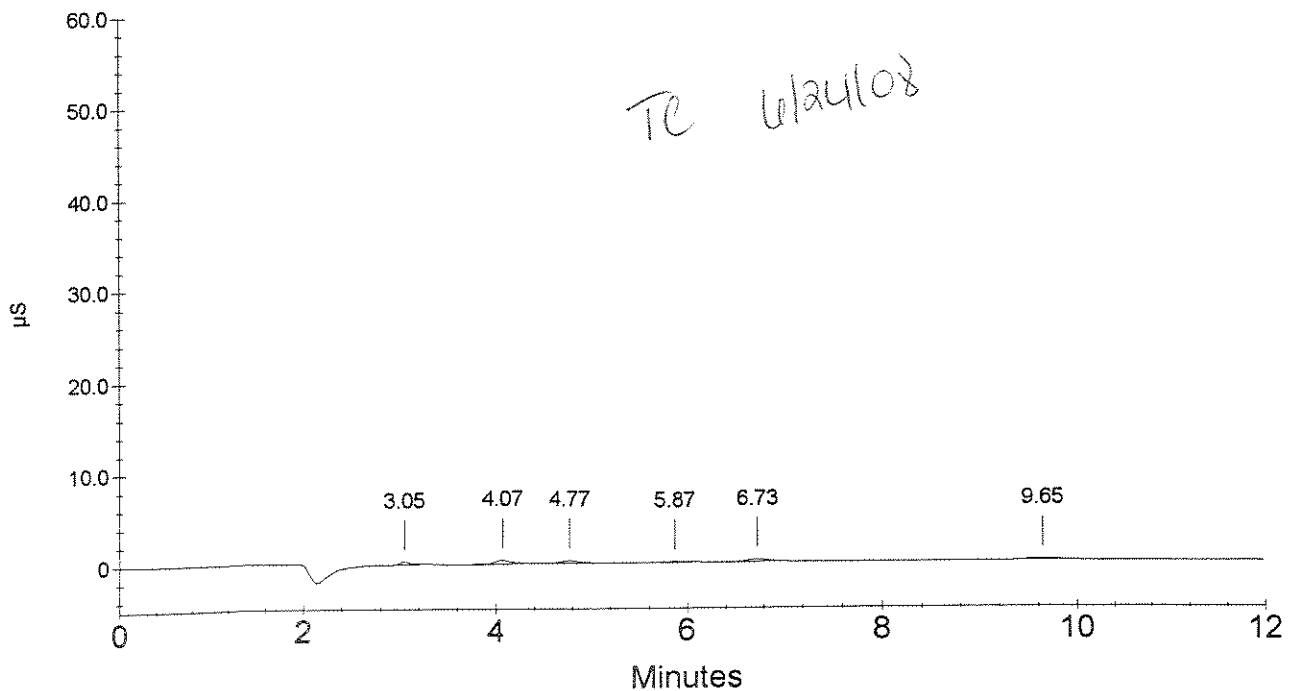
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 2

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.05	Fluoride	0.05	20511	20511.00
2	4.07	Chloride	0.10	60632	60631.50
3	4.77	Nitrite	0.05	33073	33073.00
4	5.87	Bromide	0.05	10012	10012.00
5	6.73	Nitrate	0.05	35011	35011.00
6	9.65	Sulfate	0.10	24865	24864.50

STANDARD 2



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 3
 Sample Type : Calibration Update
 Data File Name : ...\\0623_003.DXD
 Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 14:42:03
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

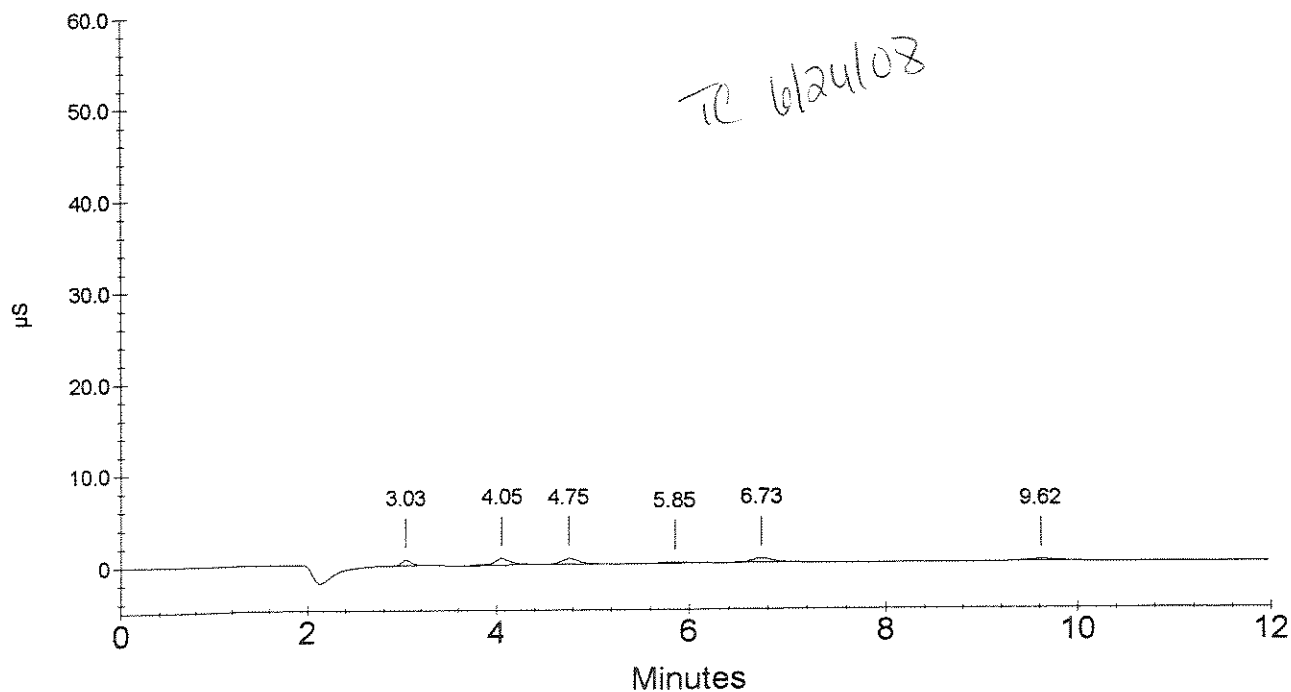
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 3

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.03	Fluoride	0.10	43487	43487.00
2	4.05	Chloride	0.20	89947	89946.50
3	4.75	Nitrite	0.10	69578	69578.00
4	5.85	Bromide	0.10	18905	18904.50
5	6.73	Nitrate	0.10	71579	71578.50
6	9.62	Sulfate	0.20	44110	44110.00

STANDARD 3



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 4
Sample Type : Calibration Update
Data File Name : ...\\0623_004.DXD
Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 14:56:25
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Analyst : T. CHRIST

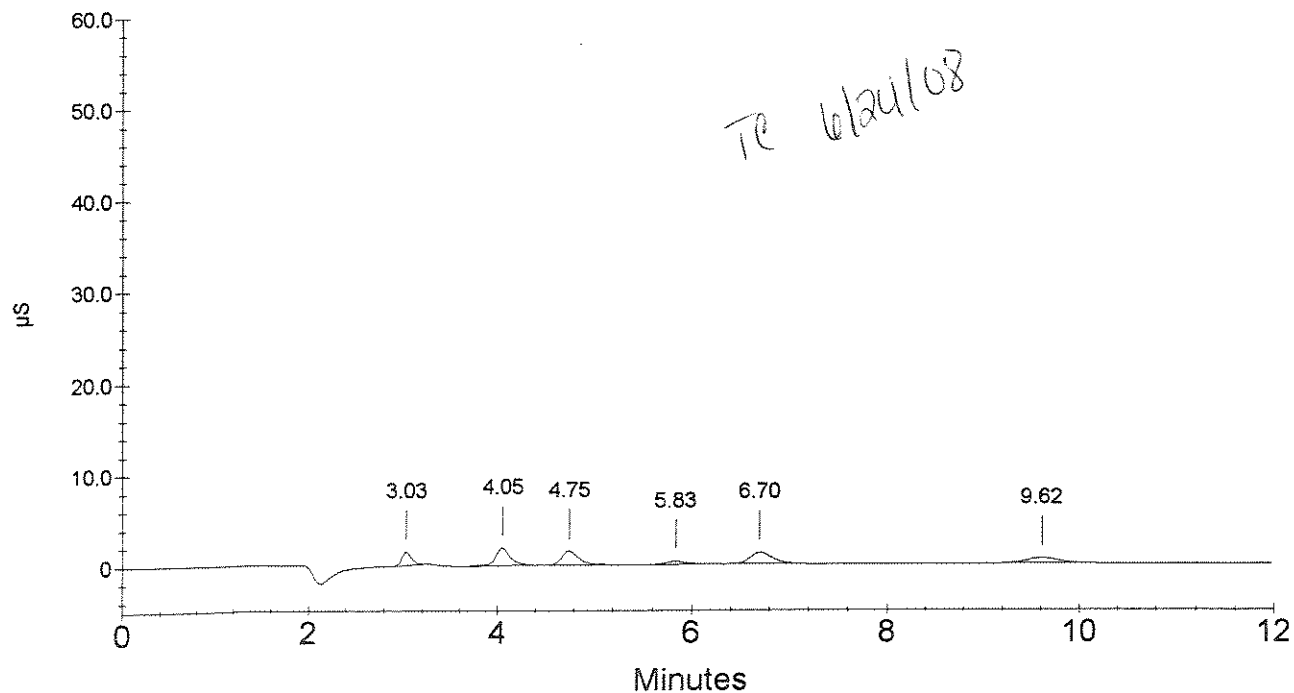
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 4

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.03	Fluoride	0.25	105401	105400.50
2	4.05	Chloride	0.50	211274	211273.50
3	4.75	Nitrite	0.25	180651	180651.00
4	5.83	Bromide	0.25	43438	43438.00
5	6.70	Nitrate	0.25	194199	194199.00
6	9.62	Sulfate	0.50	126543	126543.00

STANDARD 4



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 5
Sample Type : Calibration Update
Data File Name : ...\\0623_005.DXD
Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 15:10:47
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Analyst : T. CHRIST

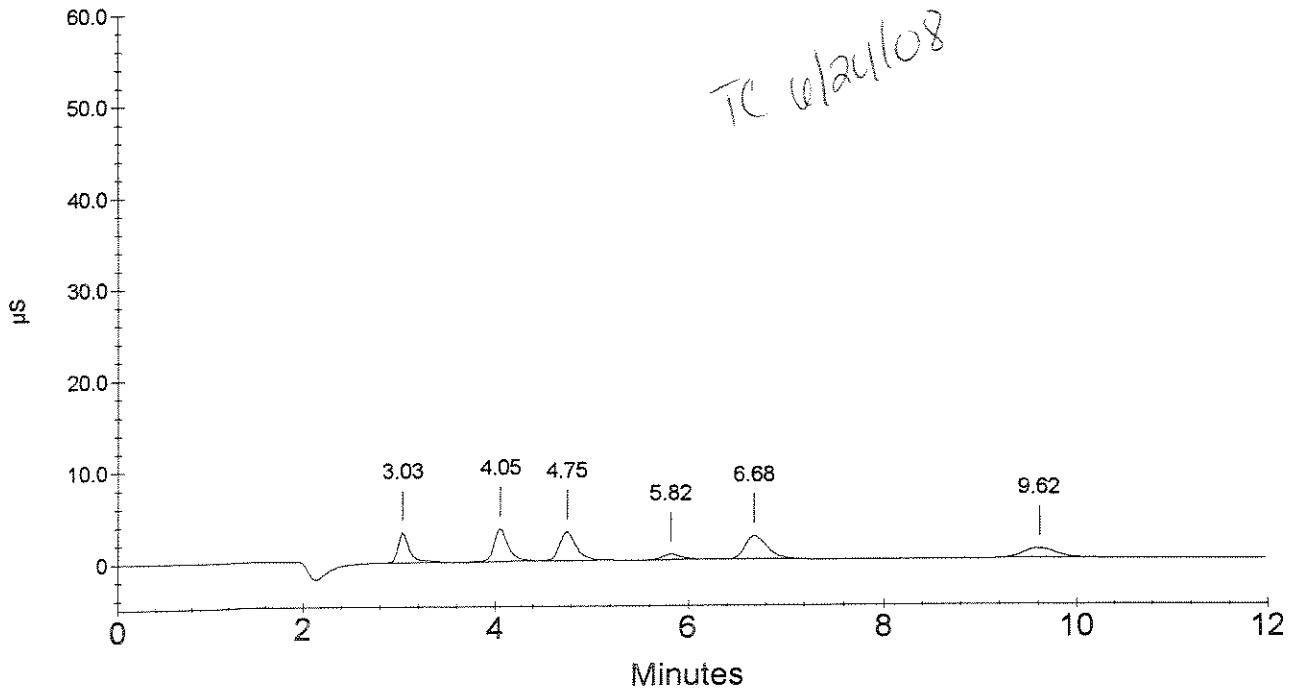
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 5

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.03	Fluoride	0.50	280927	280927.00
2	4.05	Chloride	1.00	372164	372164.00
3	4.75	Nitrite	0.50	368469	368469.00
4	5.82	Bromide	0.50	81453	81453.00
5	6.68	Nitrate	0.50	397776	397775.50
6	9.62	Sulfate	1.00	239635	239635.00

STANDARD 5



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 6
 Sample Type : Calibration Update
 Data File Name : ...\\0623_006.DXD
 Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 15:25:08
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

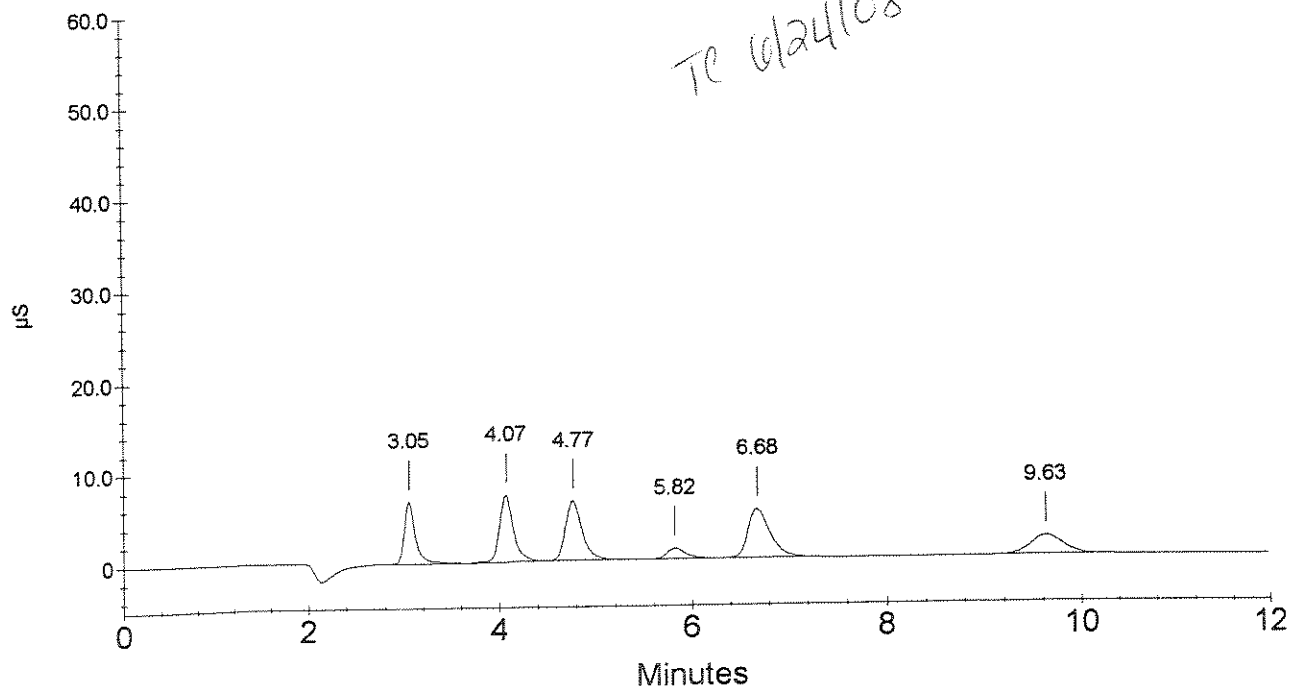
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 6

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.05	Fluoride	1.00	552422	552422.00
2	4.07	Chloride	2.00	726484	726483.50
3	4.77	Nitrite	1.00	765373	765373.00
4	5.82	Bromide	1.00	155388	155388.00
5	6.68	Nitrate	1.00	839066	839066.00
6	9.63	Sulfate	2.00	482251	482250.50

STANDARD 6



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 7
 Sample Type : Calibration Update
 Data File Name : ...\\0623_007.DXD
 Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 15:39:24
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

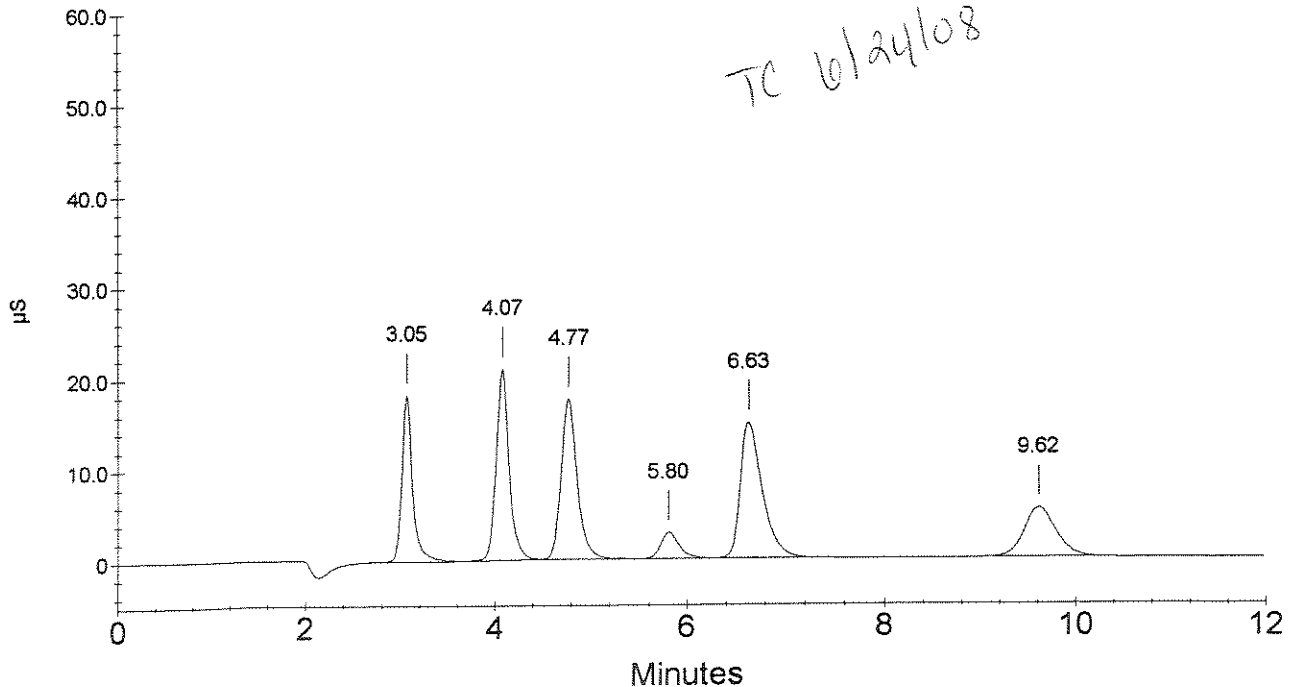
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 7

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.05	Fluoride	2.50	1467948	1467948.00
2	4.07	Chloride	5.00	1981112	1981111.50
3	4.77	Nitrite	2.50	2048245	2048245.00
4	5.80	Bromide	2.50	381974	381974.00
5	6.63	Nitrate	2.50	2301648	2301647.50
6	9.62	Sulfate	5.00	1268654	1268653.50

STANDARD 7



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 8
 Sample Type : Calibration Update
 Data File Name : ...\\0623_008.DXD
 Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 15:53:40
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

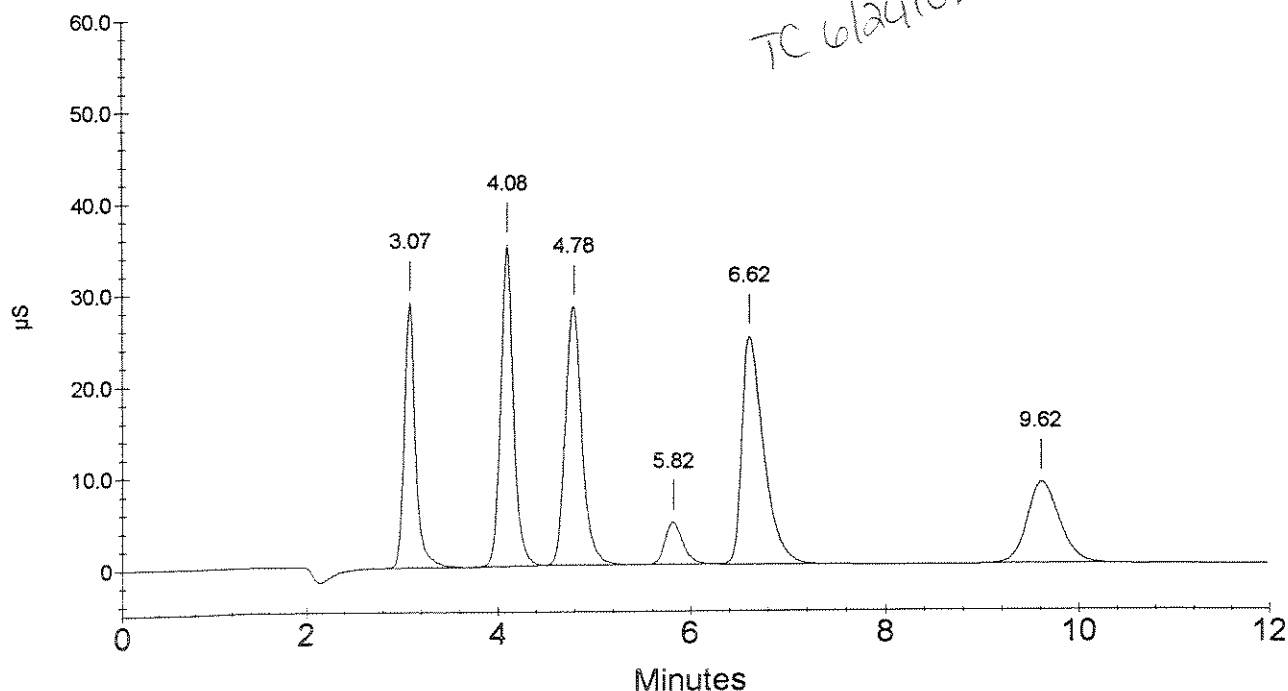
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 8

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.07	Fluoride	4.00	2334759	2334759.00
2	4.08	Chloride	8.00	3294251	3294251.00
3	4.78	Nitrite	4.00	3326781	3326780.50
4	5.82	Bromide	4.00	605052	605052.00
5	6.62	Nitrate	4.00	3859036	3859035.50
6	9.62	Sulfate	8.00	2057283	2057282.50

STANDARD 8



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 9
Sample Type : Calibration Update
Data File Name : ...\\0623_009.DXD
Method File Name : ...\\20080623.met

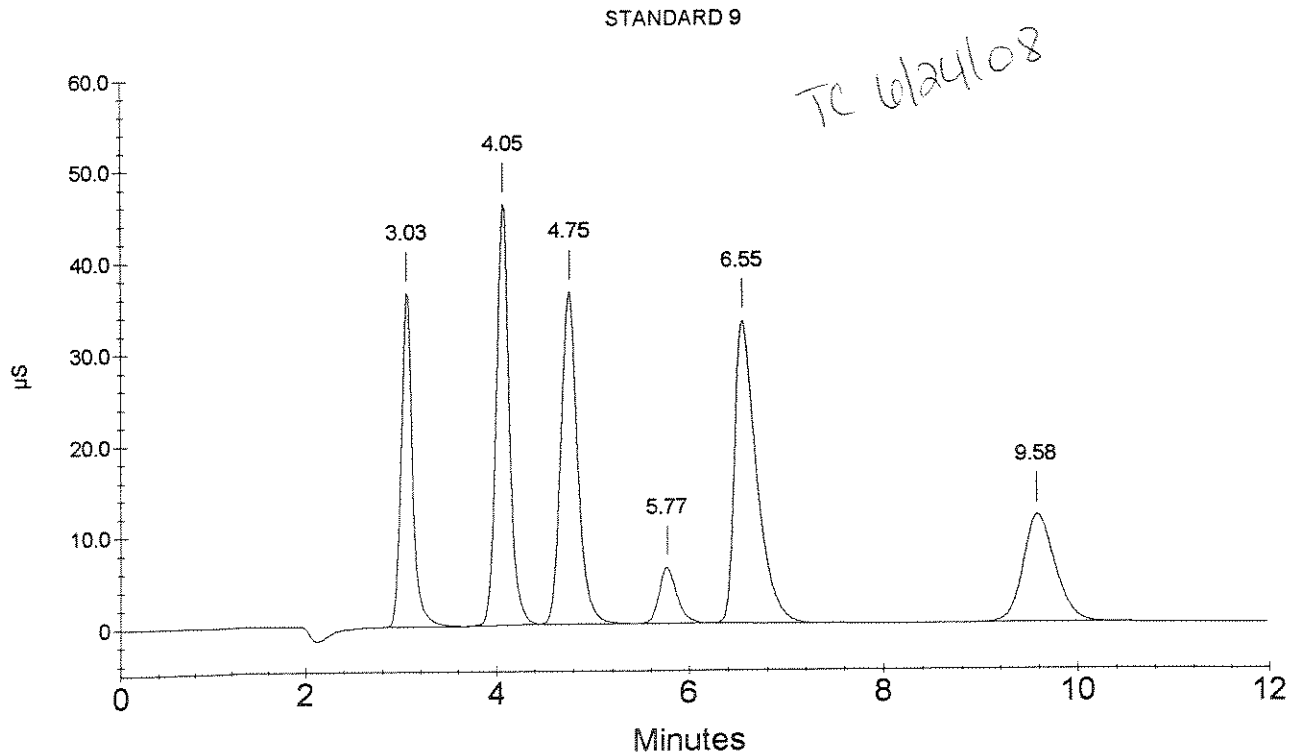
Date Time Collected : 6/23/08 16:07:57
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 9

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.03	Fluoride	5.00	2990431	2990431.00
2	4.05	Chloride	10.00	4333962	4333962.00
3	4.75	Nitrite	5.00	4309791	4309791.00
4	5.77	Bromide	5.00	780891	780891.00
5	6.55	Nitrate	5.00	5122564	5122564.00
6	9.58	Sulfate	10.00	2696907	2696907.00



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : ICV
 Data File Name : ...\\0623_010.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/23/08 16:22:17

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

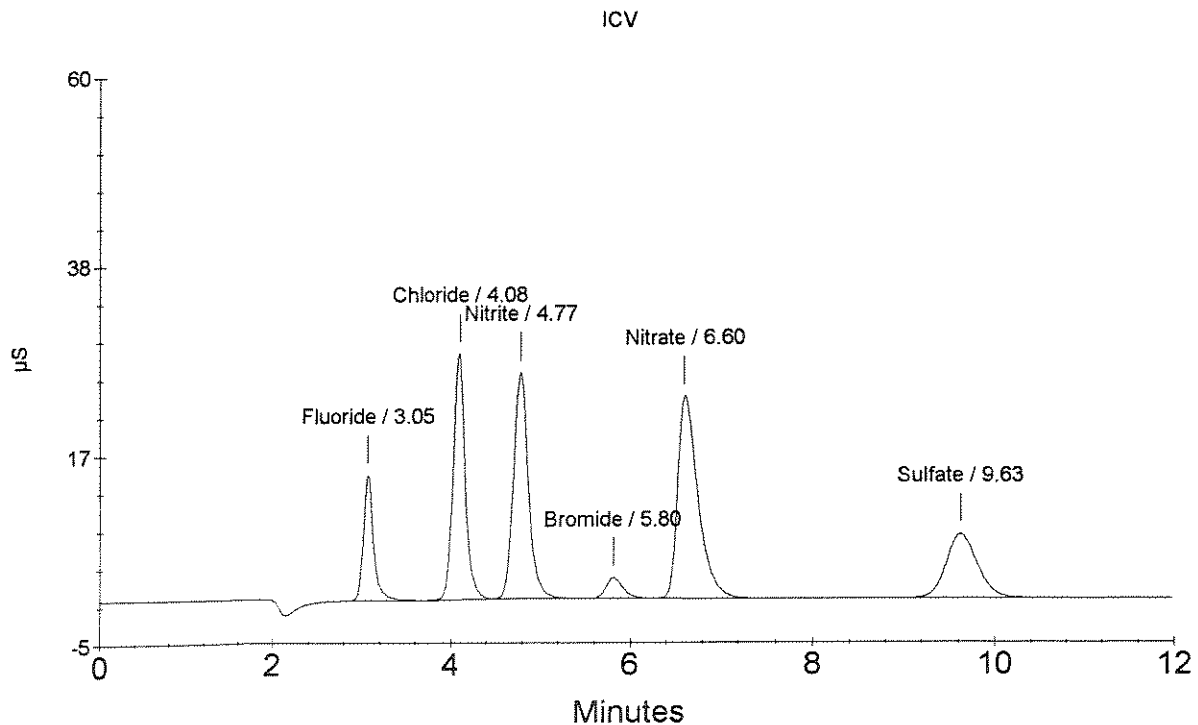
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.05	Fluoride	1.971	1153862
2	4.08	Chloride	6.356	2668144
3	4.77	Nitrite	3.595	3034218
4	5.80	Bromide	2.014	311470
5	6.60	Nitrate	3.634	3589277
6	9.63	Sulfate	6.484	1702522

OK



TR 6/24/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICB
Data File Name : ...\\0623_011.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/23/08 16:36:33

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

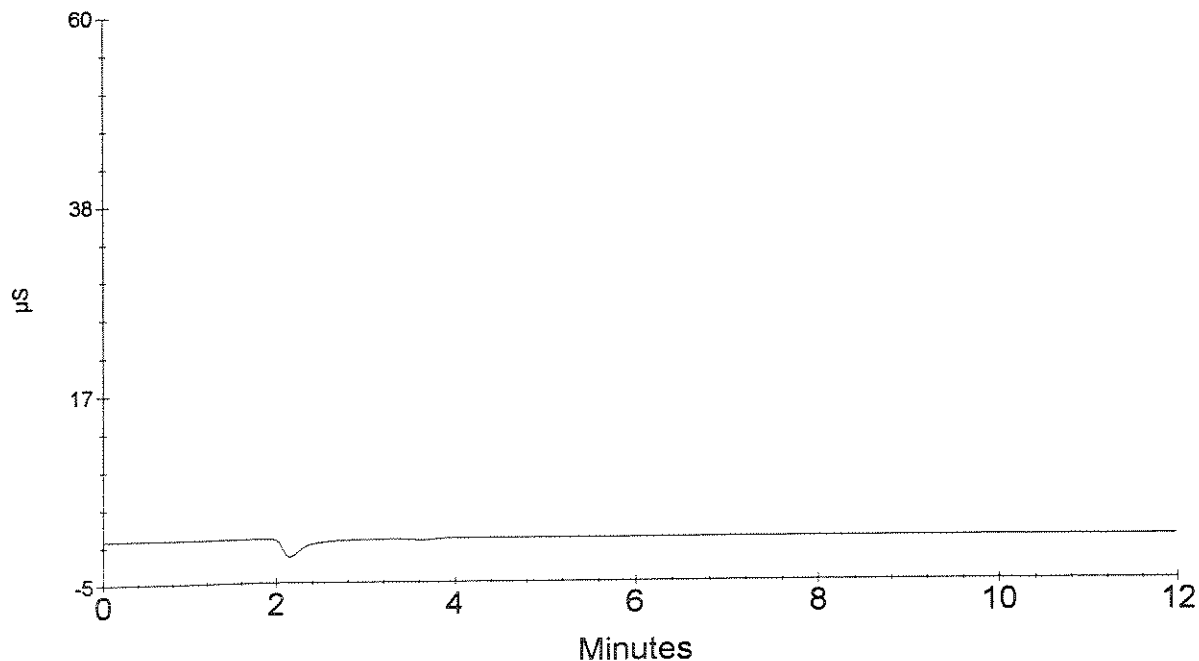
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK
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TE 6/24/08

ICB



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : LCS
 Data File Name : ... \0623_012.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/23/08 16:50:50

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

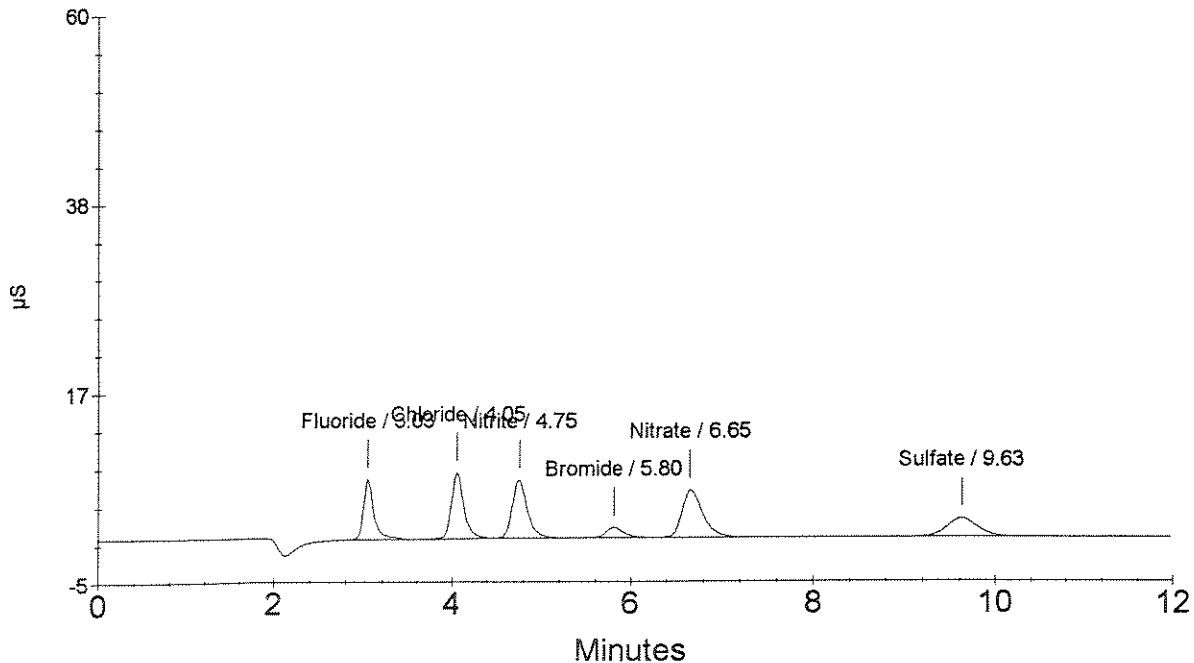
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	0.983	563988
2	4.05	Chloride	1.816	743056
3	4.75	Nitrite	0.949	771669
4	5.80	Bromide	1.011	157366
5	6.65	Nitrate	0.914	843913
6	9.63	Sulfate	1.899	484590

OK
↓

TC 6/24/08

LCS



Run #: 163168

Analyte: CHLORIDE 9056 CHLORIDE BY ION CHROMATOGRAPHY

Printed: 07/08/08 12:05

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLK5	-	1115313	SOIL/SEDIME	2.34	1.0	20.0			06/27/2008		
ESMP	R2844666	-	1112361	SOIL/SEDIME	1.0	20.0			06/27/08		ASPB
ESMP	R2844666	-	1112362	SOIL/SEDIME	1.0	20.0			06/27/08	QC	ASPB
LDUP	-	1114133	SOIL/SEDIME	10.8	1.0	20.0			06/27/08		
SPK1	-	1114134	SOIL/SEDIME	29.9	1.0	20.0			06/27/08		
ESMP	R2844650	-	1112812	WATER	1.0	0.200			06/27/08		ASPB
CHK5	-	1115265	WATER	6.50	1.0	0.200	100.0		06/27/2008		
BLK4	-	1115267	WATER	0.0240	1.0	0.200			06/27/2008		
SPKB	-	1115268	WATER	2.02	1.0	0.200	100.9		06/27/2008		

71% S₂ 7/8/08
~~100.0~~

Records printed: 9



Run #: 163169

Analyte: SULFATE 9056 SULFATE BY ION CHROMATOGRAPHY

Printed: 07/08/08 12:07

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED RESULT</u>	<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
BLK5	-	1115312	SOIL/SEDIME	0.120	1.0	20.0			06/27/2008		
ESMP	R2844666	1112361	SOIL/SEDIME	91.5	1.0	20.0			06/27/08		ASPB
ESMP	R2844650	1112810	WATER	795	100.0	0.200			06/27/08		ASPB
CHK5	-	1115275	WATER	6.36	1.0	0.200	99.4		06/27/2008		
BLK4	-	1115276	WATER	0.200	U	1.0	0.200		06/27/2008		
SPKB	-	1115277	WATER	1.89	1.0	0.200	94.3		06/27/2008		
ESMP	R2844650	1112811	WATER	864	100.0	0.200			06/27/08		ASPB
ESMP	R2844650	1112812	WATER	0.0600	1.0	0.200			06/27/08		ASPB

Records printed: 8

Run #: 163173

Analyte: NITRATE 9056

NITRATE NITROGEN (NO3) AS N BY ION CHROM

Printed: 07/08/08 12:02

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLK5		1114874	SOIL/SEDIME	0.270	1.0	5.00			06/27/08		
ESMP	R2844666	1112361	SOIL/SEDIME	1.38	1.0	5.00			06/27/08		ASPB
ESMP	R2844666	1112362	SOIL/SEDIME	1.57	1.0	5.00			06/27/08	QC	ASPB
LDUP		1114109	SOIL/SEDIME	0.940	1.0	5.00		50.20	06/27/08		
SPK1		1114110	SOIL/SEDIME	10.5	1.0	5.00	1049.0		06/27/08		
ESMP	R2844666	1112364	SOIL/SEDIME	2.84	1.0	5.00			06/27/08		ASPB
ESMP	R2844666	1112365	SOIL/SEDIME	4.27	1.0	5.00			06/27/08		ASPB
ESMP	R2844650	1112809	WATER	0.436	10.0	0.0500			06/27/08		ASPB
CHK5		1114875	WATER	3.64	1.0	0.0500	101.2		06/27/2008		
BLK4		1114876	WATER	0.0500	1.0	0.0500			06/27/2008		
SPKB		1114877	WATER	0.967	1.0	0.0500	96.7		06/27/2008		
ESMP	R2844650	1112810	WATER	1.32	10.0	0.0500			06/27/08		ASPB
ESMP	R2844650	1112811	WATER	0.164	10.0	0.0500			06/27/08		ASPB
LDUP		1114111	WATER	0.164	10.0	0.0500			06/27/08		
SPK1		1114112	WATER	7.08	10.0	0.0500	69.1		06/27/08		
ESMP	R2844650	1112812	WATER	0.191	10.0	0.0500			06/27/08		ASPB
ESMP	R2844650	1112871	WATER	7.90	10.0	0.0500			06/27/08		ASPB
ESMP	R2844650	1112872	WATER	18.8	10.0	0.0500			06/27/08		ASPB
ESMP	R2844650	1112874	WATER	1.21	10.0	0.0500			06/27/08	QC	ASPB
LDUP		1114113	WATER	1.17	10.0	0.0500		3.70	06/27/08		
SPK1		1114114	WATER	10.0	10.0	0.0500	88.4		06/27/08		

Records printed: 21

ANALYTE:G:\STARLIMS\ASBAR.RP1

Page 1

02110

Run #: 163174

Analyte: NITRITE 9056 NITRITE NITROGEN (NO2) AS N BY ION CHROM

Printed: 07/08/08 12:04

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED		DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT						ANALYZED		
BLK5		1115314	SOIL/SEDIME	5.00	U	1.0	5.0			06/27/2008		
ESMP	R2844666	1112361	SOIL/SEDIME	5.00	U	1.0	5.0			06/27/08		ASPB
ESMP	R2844666	1112362	SOIL/SEDIME	5.00	U	1.0	5.0			06/27/08	QC	ASPB
LDUP		1114121	SOIL/SEDIME	5.00	U	1.0	5.0			06/27/08		
SPK1		1114122	SOIL/SEDIME	9.58		1.0	5.0	95.8		06/27/08		
ESMP	R2844666	1112363	SOIL/SEDIME	5.00	U	1.0	5.0	958.05	7/8/08	06/27/08		ASPB
ESMP	R2844666	1112364	SOIL/SEDIME	5.00	U	1.0	5.0			06/27/08		ASPB
ESMP	R2844650	1112809	WATER	5.00	U	100.0	0.05			06/27/08		ASPB
CHK5		1115269	WATER	3.54		1.0	0.05	98.4		06/27/2008		
BLK4		1115271	WATER	0.0500	U	1.0	0.05			06/27/2008		
SPKB		1115273	WATER	0.987		1.0	0.05	98.7		06/27/2008		
ESMP	R2844650	1112810	WATER	5.00	U	100.0	0.05			06/27/08		ASPB
ESMP	R2844650	1112811	WATER	5.00	U	100.0	0.05			06/27/08		ASPB
ESMP	R2844650	1112812	WATER	0.500	U	10.0	0.05			06/27/08		ASPB
ESMP	R2844650	1112871	WATER	2.00	U	40.0	0.05			06/27/08		ASPB
ESMP	R2844650	1112872	WATER	2.00	U	40.0	0.05			06/27/08		ASPB
ESMP	R2844650	1112874	WATER	5.00	U	100.0	0.05			06/27/08	QC	ASPB
LDUP		1114123	WATER	5.00	U	100.0	0.05			06/27/08		
SPK1		1114124	WATER	97.9		100.0	0.05	97.9		06/27/08		

Records printed: 19

Run #: 163167

Analyte: BROMIDE 9056 BROMIDE BY ION CHROMATOGRAPHY

Printed: 07/08/08 12:08

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED RESULT</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
CHK5	-	1113971	WATER	1.86		1.0	0.100	92.8		06/27/08		
BLK4	-	1113972	WATER	0.100	U	1.0	0.100			06/27/08		
SPKB	-	1113973	WATER	0.895		1.0	0.100	89.5		06/27/08		
ESMP	R2844650	1112871	WATER	391		100.0	0.100			06/27/08		ASPB
ESMP	R2844650	1112872	WATER	300		100.0	0.100			06/27/08		ASPB
ESMP	R2844650	1112874	WATER	9.82		10.0	0.100			06/27/08	QC	ASPB
LDUP	-	1113974	WATER	9.42		10.0	0.100		4.19	06/27/08		
SPK1	-	1113975	WATER	21.6		10.0	0.100	118.1		06/27/08		

Records printed: 8

06-27-08

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample info 1	Sample info 2
Columbia-no dilution	CCV	1	1.0	1.0	1.0	100.0	0	1	1	ANALYST: TC	
Columbia-no dilution	CCB	2	1.0	1.0	1.0	100.0	0	1	1	PIPETTES: LUCY-MINE	
Columbia-no dilution	LCS	3	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	LCS	4	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	MC-94B	5	1.0	10.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	MC-94B	6	1.0	40.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	MC-94B	7	1.0	100.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	MC-16B	8	1.0	10.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	MC-16B	9	1.0	40.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	MC-16B	10	1.0	100.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	MC-54	11	1.0	10.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	MC-54	12	1.0	10.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	MC-54	13	1.0	10.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	MC-54	14	1.0	40.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	MC-54	15	1.0	100.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	EB062608	16	1.0	10.0	1.0	100.0	0	1	1	CVNS	
Columbia-no dilution	CCV	17	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	18	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	METHOD BLANK	19	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1112361 R-44666	20	1.0	1.0	1.0	100.0	0	1	1	EXT	
Columbia-no dilution	1112363	21	1.0	1.0	1.0	100.0	0	1	1	EXT	
Columbia-no dilution	1112362 DUP	22	1.0	1.0	1.0	100.0	0	1	1	EXT	
Columbia-no dilution	1112363 SPK	23	1.0	1.0	1.0	100.0	0	1	1	EXT	
Columbia-no dilution	1112363	24	1.0	1.0	1.0	100.0	0	1	1	EXT	
Columbia-no dilution	1112364	25	1.0	1.0	1.0	100.0	0	1	1	EXT	
Columbia-no dilution	1112365	26	1.0	1.0	1.0	100.0	0	1	1	EXT	
Columbia-no dilution	DGC-1S	27	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	CHA-7S	28	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	DGC-4S	29	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	TCC-1	30	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	CCV	31	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	32	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	LCS	33	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	TCC-2	34	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	TCC-2 DUP	35	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	TCC-3 SPK	36	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	SW-1	37	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	CHA-7S DUP	38	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	111126 R-44621	39	1.0	40.0	1.0	100.0	0	1	1	C	
Columbia-no dilution	1111277	40	1.0	40.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	1112871 R-44650	41	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	1112871	42	1.0	40.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	1112871	43	1.0	100.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	1112872	44	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	1112872	45	1.0	40.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	CCV	46	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	47	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1112872	48	1.0	100.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	1112874	49	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	1112874 DUP	50	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	1112874 SPK	51	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	1112874	52	1.0	40.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	1112874 DUP	53	1.0	40.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution	1112874 SPK	54	1.0	40.0	1.0	100.0	0	1	1	CBNS	

02122

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution	1112874	55	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	1112874 DUP	56	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	1112874 SPK	57	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	1111897 R-44621	58	1.0	1.0	1.0	100.0	0	1	1	FCS	
Columbia-no dilution	1111898	59	1.0	1.0	1.0	100.0	0	1	1	FCS	
Columbia-no dilution	1111899	60	1.0	1.0	1.0	100.0	0	1	1	FCS	
Columbia-no dilution	CCV	61	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	62	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	LCS	63	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1111900	64	1.0	1.0	1.0	100.0	0	1	1	FCS	
Columbia-no dilution	1111983	65	1.0	1.0	1.0	100.0	0	1	1	FCS	
Columbia-no dilution	1111983 DUP	66	1.0	1.0	1.0	100.0	0	1	1	FCS	
Columbia-no dilution	1111983 SPK	67	1.0	1.0	1.0	100.0	0	1	1	FCS	
Columbia-no dilution	1111984	68	1.0	1.0	1.0	100.0	0	1	1	FCS	
Columbia-no dilution	1111985	69	1.0	1.0	1.0	100.0	0	1	1	FCS	
Columbia-no dilution	1111986	70	1.0	1.0	1.0	100.0	0	1	1	FCS	
Columbia-no dilution	1111987	71	1.0	1.0	1.0	100.0	0	1	1	FCS	
Columbia-no dilution	1111897	72	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1111898	73	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1111899	74	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1111900	75	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	CCV	76	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	77	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1111983	78	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1111983 DUP	79	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1111983 SPK	80	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1111984	81	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1111985	82	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1111986	83	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1111987	84	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	CCV	85	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	86	1.0	1.0	1.0	100.0	0	1	1		

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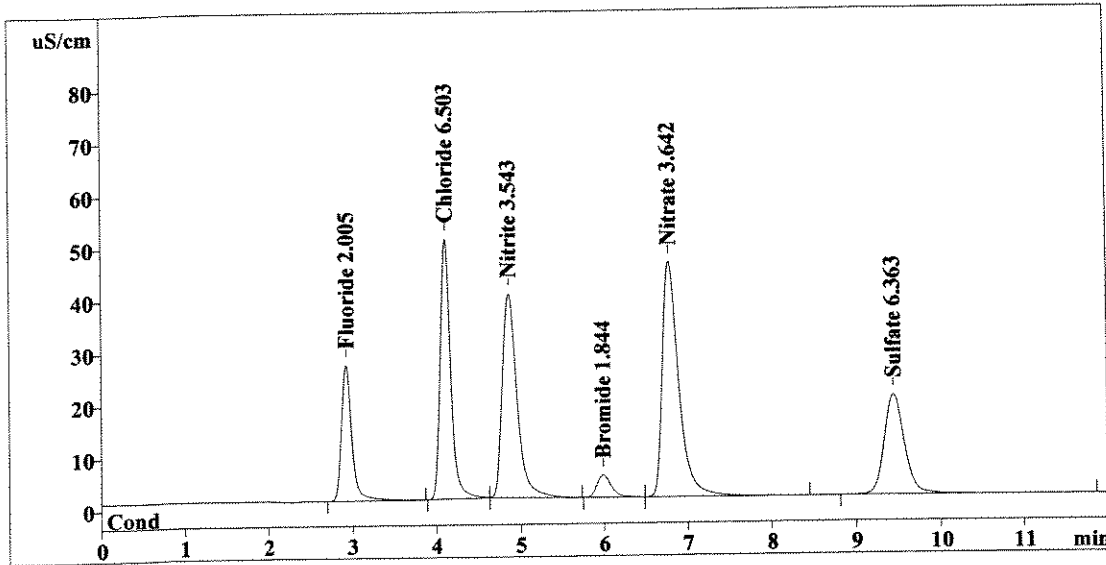
Method 300.0/9056

Report date: 6/27/2008 09:30:19
 Printed by: User
 Ident: CCV
 Analysis from: 6/27/2008 09:18:21
 File: S6270918.CHW

Last save: 6/27/2008 09:30:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37572
 SAMPLE: ANALYST: TC
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	223.732	2.005	Fluoride
2	4.10	423.809	6.503	Chloride
3	4.85	482.105	3.543	Nitrite
4	5.99	51.450	1.844	Bromide
5	6.79	602.951	3.642	Nitrate
6	9.44	316.687	6.363	Sulfate
<hr/>				
6	12.00	2100.734	23.899	

OK
↓

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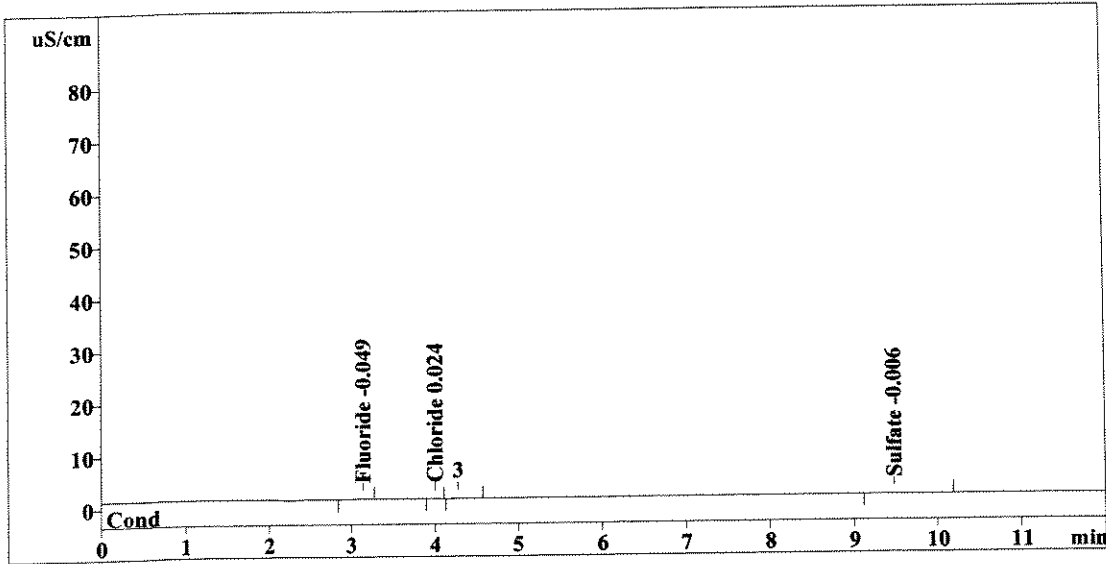
Method 300.0/9056

Report date: 6/27/2008 09:44:25
 Printed by: User
 Ident: CCB
 Analysis from: 6/27/2008 09:32:27
 File: S6270932.CHW

Last save: 6/27/2008 09:44:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37573
 SAMPLE: PIPETTES: LUCY,MINE
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.15	0.124	-0.049	Fluoride
2	4.00	0.065	0.024	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.49	0.773	-0.006	Sulfate
<hr/>				
6	12.00	0.962	0.079	

OK
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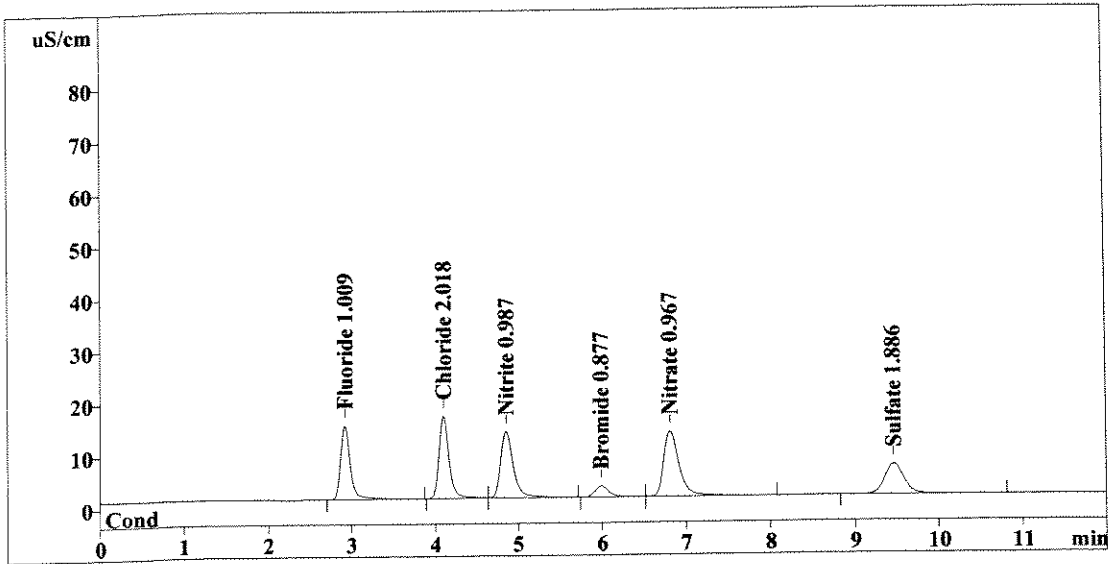
Method 300.0/9056

Report date: 6/27/2008 09:58:31
 Printed by: User
 Ident: LCS
 Analysis from: 6/27/2008 09:46:33
 File: S6270946.CHW

Last save: 6/27/2008 09:58:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37574
 SAMPLE:
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	115.379	1.009	Fluoride
2	4.10	130.468	2.018	Chloride
3	4.85	134.830	0.987	Nitrite
4	5.99	24.116	0.877	Bromide
5	6.81	158.181	0.967	Nitrate
6	9.46	94.609	1.886	Sulfate
6	12.00	657.582	7.745	

OK
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 OK
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Rpt to try to
 Get Br⁻ to Pass

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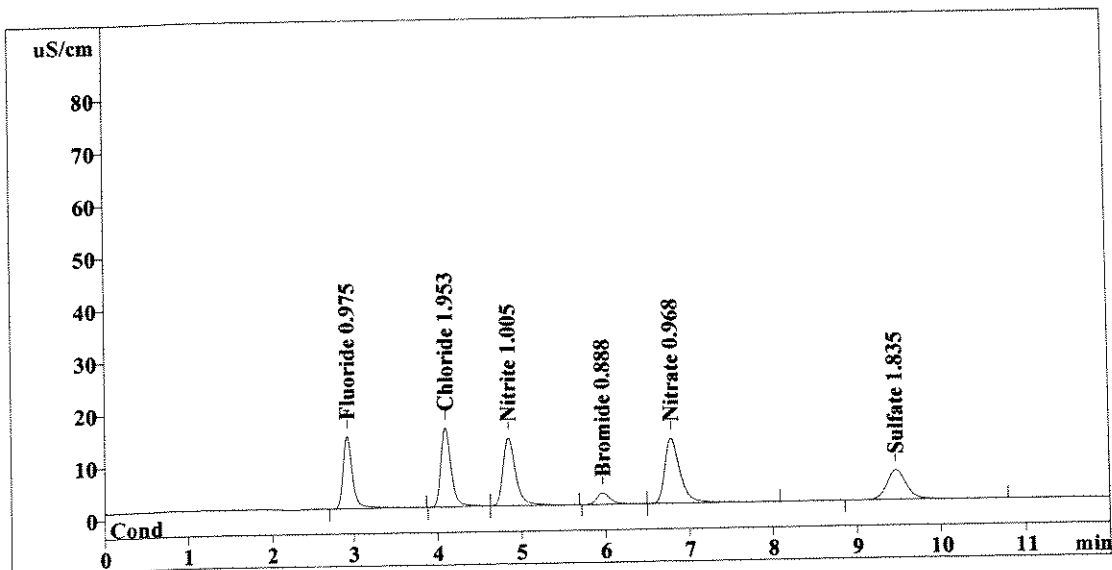
Ion Chromatography Analytical Report
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 Report date: 6/27/2008 10:29:14
 Printed by: User
 Ident: LCS
 Analysis from: 6/27/2008 10:17:16
 File: S6271017.CHW

Method 300.0/9056

Last save: 6/27/2008 10:29:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37575
 SAMPLE:
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	111.639	0.975	Fluoride
2	4.09	126.251	1.953	Chloride
3	4.84	137.304	1.005	Nitrite
4	5.97	24.427	0.888	Bromide
5	6.78	158.345	0.968	Nitrate
6	9.47	92.076	1.835	Sulfate
6	12.00	650.042	7.625	

OK
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 out low
 OK
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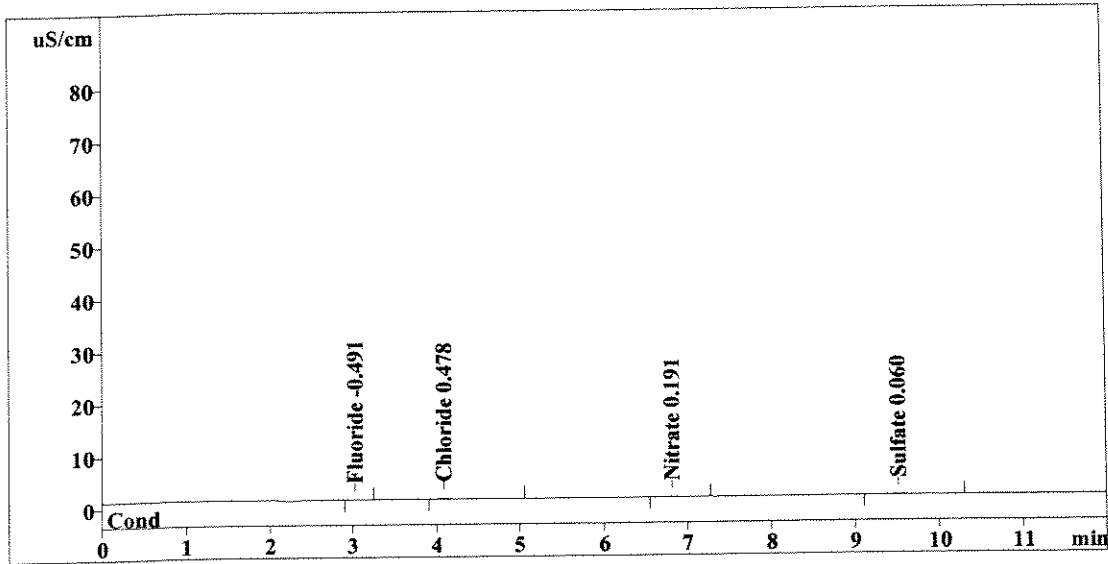
Method 300.0/9056

Report date: 6/27/2008 13:38:42
 Printed by: User
 Ident: EB062608
 Analysis from: 6/27/2008 13:26:44
 File: S6271326.CHW

Last save: 6/27/2008 13:38:42

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37587
 SAMPLE: CNNS
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.03	0.114	-0.491	Fluoride
2	4.08	1.604	OK 0.478	Chloride
3	0.00	0.000	OK 0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.81	0.450	OK 0.191	Nitrate
6	9.52	1.367	OK 0.060	Sulfate
6	12.00	3.535	1.220	

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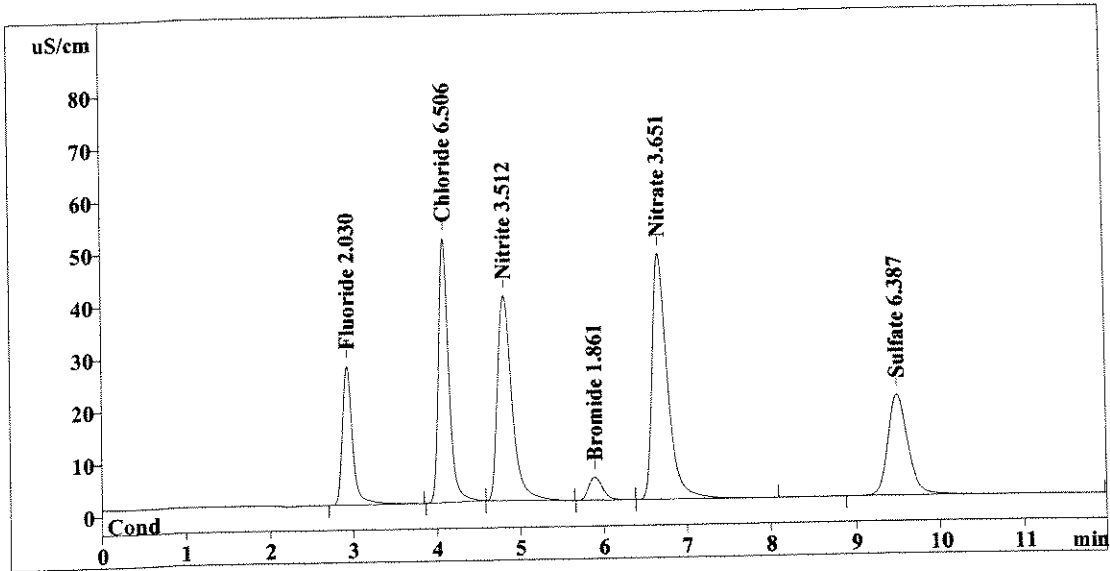
TC 613008

Report date: 6/27/2008 13:52:48
 Printed by: User
 Ident: CCV
 Analysis from: 6/27/2008 13:40:50
 File: S6271340.CHW

Last save: 6/27/2008 13:52:48

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37588
 SAMPLE:
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	226.448	2.030	Fluoride
2	4.08	424.008	6.506	Chloride
3	4.81	477.939	3.512	Nitrite
4	5.89	51.944	1.861	Bromide
5	6.67	604.450	3.651	Nitrate
6	9.50	317.842	6.387	Sulfate
6	12.00	2102.631	23.946	

OK
↓

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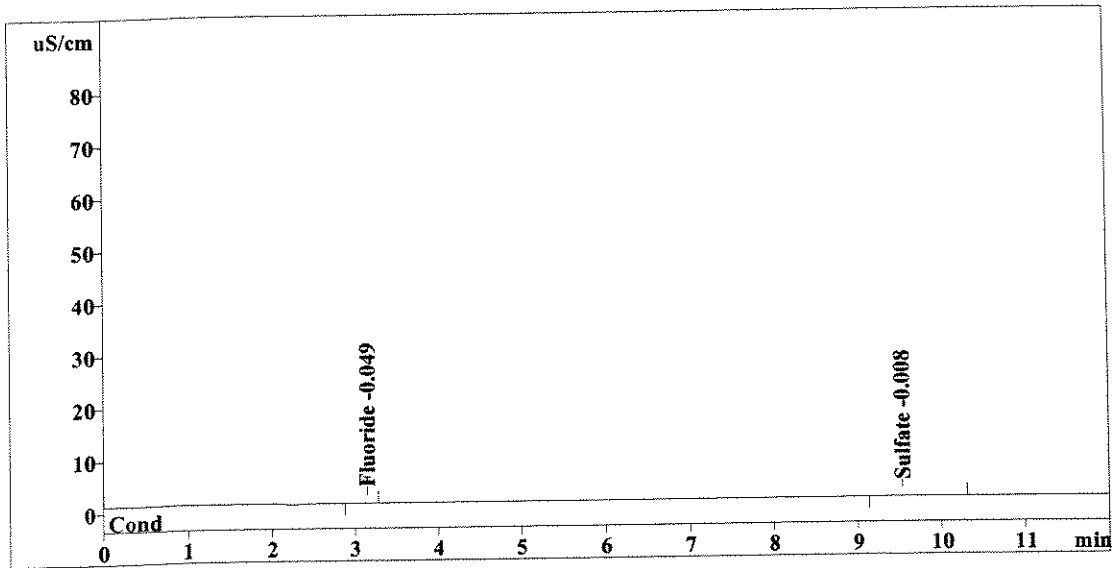
TC 6/28/08

Report date: 6/27/2008 14:06:54
 Printed by: User
 Ident: CCB
 Analysis from: 6/27/2008 13:54:56
 File: S6271354.CHW

Last save: 6/27/2008 14:06:53

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37589
 SAMPLE:
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.14	0.115	-0.049	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.54	0.682	-0.008	Sulfate
6	12.00	0.797	0.057	

OK
↓

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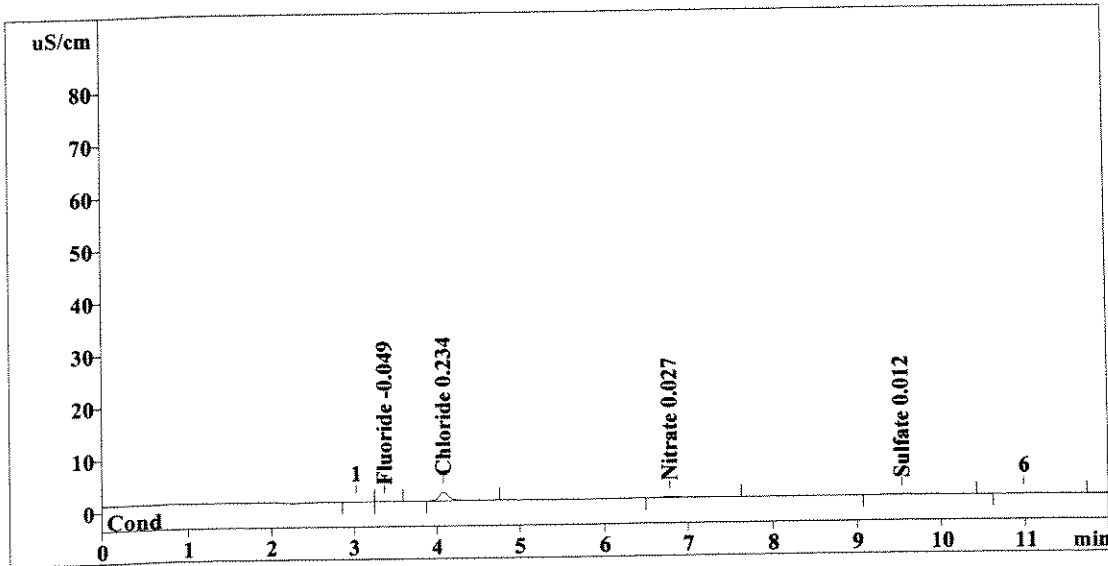
TC 6/28/08

Report date: 6/27/2008 14:21:00
 Printed by: User
 Ident: METHOD BLANK
 Analysis from: 6/27/2008 14:09:02
 File: S6271409.CHW

Last save: 6/27/2008 14:21:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37590
 SAMPLE: EXT, CNBNS
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.086	-0.049	Fluoride
2	4.08	13.814	0.234	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.79	1.820	0.027	Nitrate
6	9.53	1.673	0.012	Sulfate
6	12.00	17.393	0.323	

Handwritten notes:
 - Above peak 2: > PAL
 - Between peak 2 and 3: OK
 - Next to peak 4: NO action
 - Next to peak 2: Report Results per CMK
 - Next to peak 2: 0.234 x 250 = 2.34
 - Below peak 2: 250

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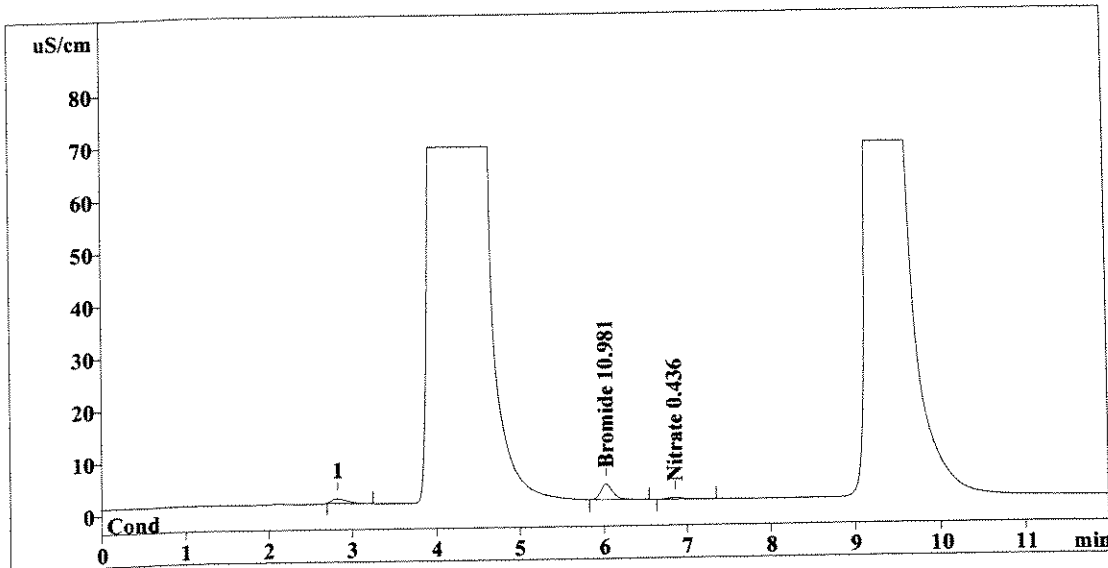
Method 300.0/9056

Report date: 6/27/2008 11:03:37
 Printed by: User
 Ident: MC-94B 1112809 R.44650
 Analysis from: 6/27/2008 10:51:39
 File: S6271051.CHW

Last save: 6/27/2008 11:03:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37576
 SAMPLE: CNNS
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.02	30.368	10.981	Bromide
5	6.85	4.521	0.436	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	34.889	11.417	

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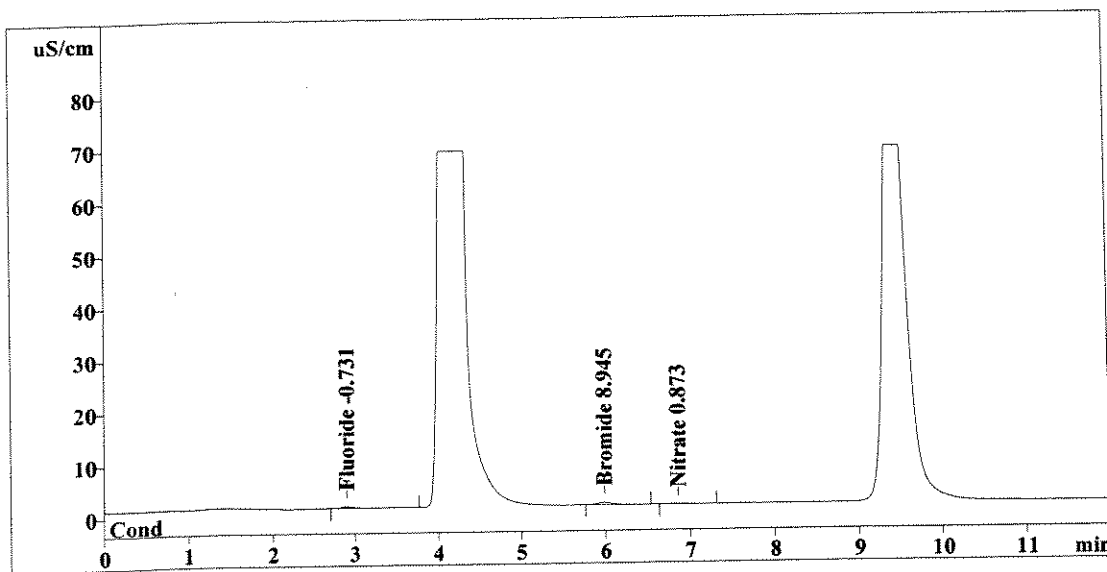
TC 6/30/08

Report date: 6/27/2008 11:17:43
 Printed by: User
 Ident: MC-94B 1112809
 Analysis from: 6/27/2008 11:05:45
 File: S6271105.CHW

Last save: 6/27/2008 11:17:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37577
 SAMPLE: CNNS
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.89	3.475	-0.731	Fluoride
2	0.00	0.000	1/400 0.000	Chloride
3	0.00	0.000	1/100 0.000	Nitrite
4	5.99	5.644	8.945	Bromide
5	6.85	0.901	use 1/10 0.873	Nitrate
6	0.00	0.000	1/400 0.000	Sulfate
6	12.00	10.020	10.550	

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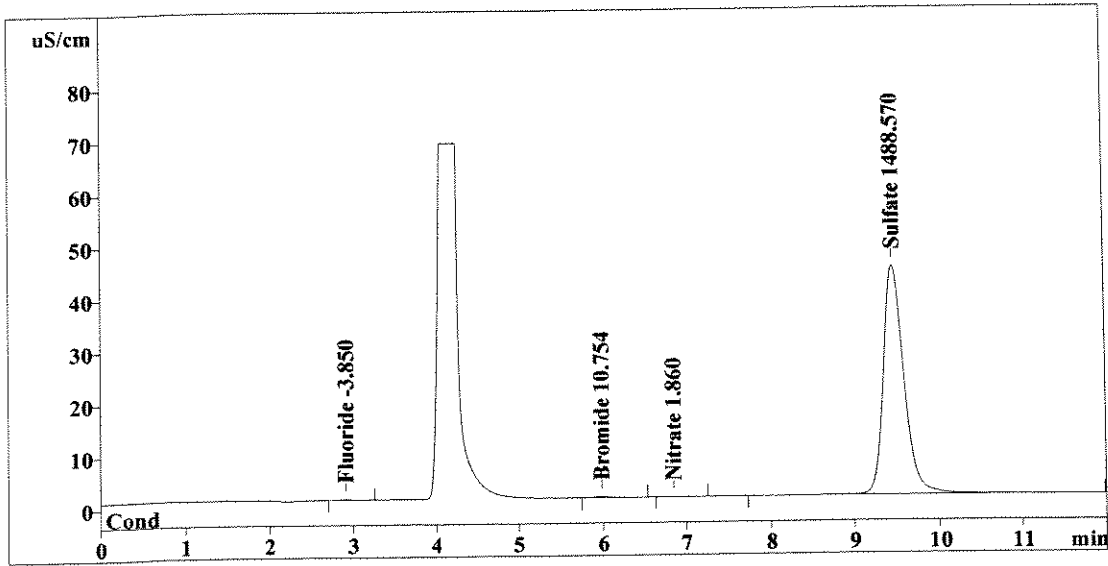
Method 300.0/9056

Report date: 6/27/2008 11:31:49
 Printed by: User
 Ident: MC-94B 1112809
 Analysis from: 6/27/2008 11:19:51
 File: S6271119.CHW

Last save: 6/27/2008 11:31:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37578
 SAMPLE: CNNS
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	1.274	-3.850	Fluoride
2	0.00	0.000	1/400 0.000	Chloride
3	0.00	0.000	OK 0.000	Nitrite
4	5.98	2.362	10.754	Bromide
5	6.85	0.365	use 1/10 1.860	Nitrate
6	9.47	739.390	1/400 1488.570	Sulfate
6	12.00	743.391	1505.034	

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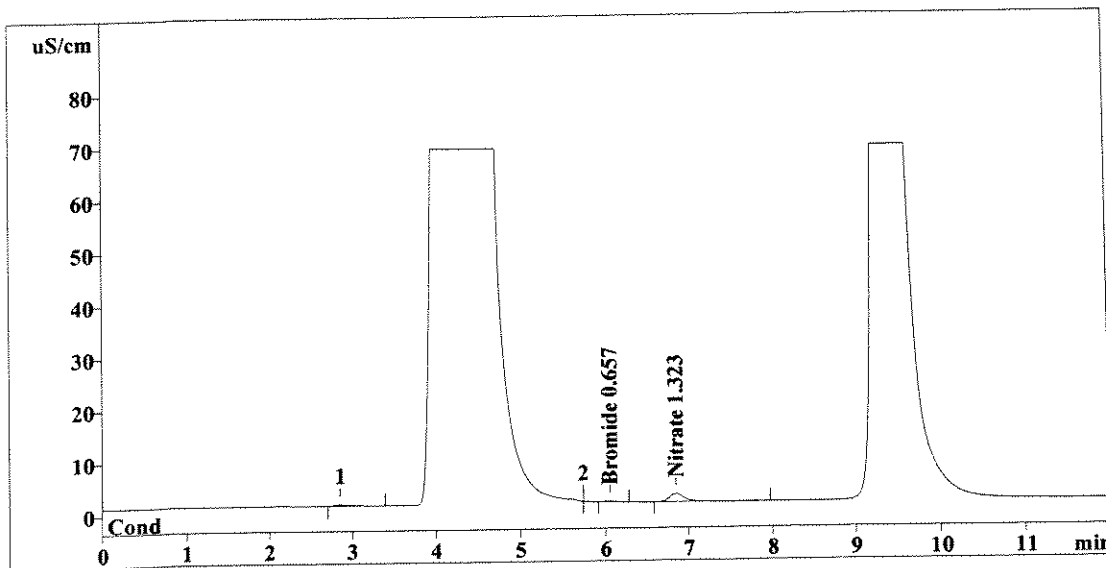
Method 300.0/9056

Report date: 6/27/2008 11:45:55
 Printed by: User
 Ident: MC-16B 1112810
 Analysis from: 6/27/2008 11:33:57
 File: S6271133.CHW

Last save: 6/27/2008 11:45:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37579
 SAMPLE: CNNS
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.05	1.179	0.657	Bromide
5	6.84	19.279	1.323	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	20.458	1.980	

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TC 6/30/08

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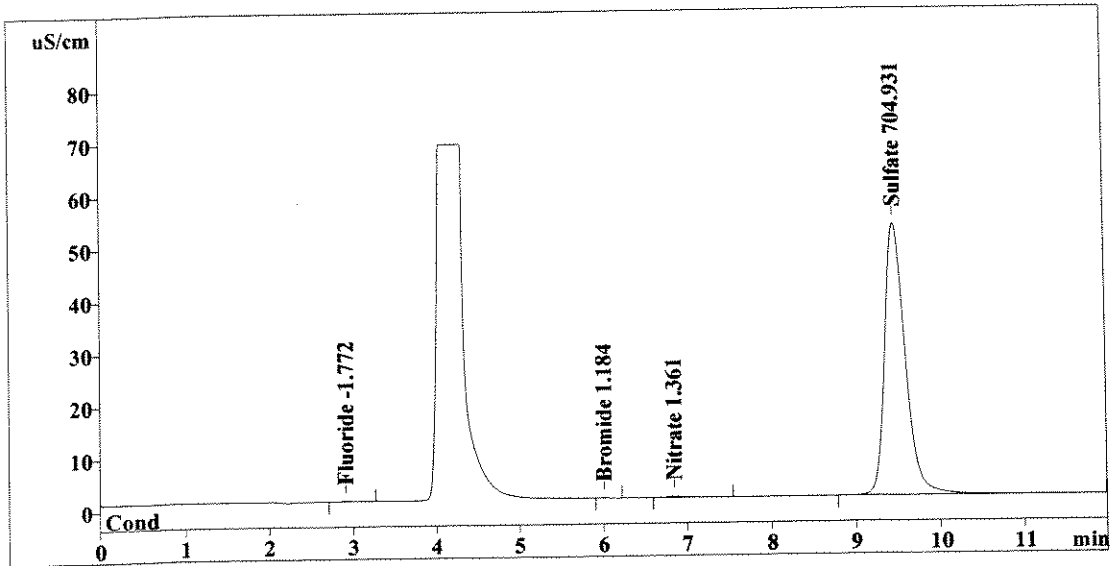
Method 300.0/9056

Report date: 6/27/2008 12:00:01
 Printed by: User
 Ident: MC-16B 112810
 Analysis from: 6/27/2008 11:48:03
 File: S6271148.CHW

Last save: 6/27/2008 12:00:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37580
 SAMPLE: CNNS
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.641	-1.772	Fluoride
2	0.00	0.000	1/400 0.000	Chloride
3	0.00	0.000	1/100 0.000	Nitrite
4	6.02	0.159	1.184	Bromide
5	6.85	2.931	use 1/10 1.361	Nitrate
6	9.47	875.173	1/100 704.931	Sulfate
6	12.00	878.904	709.249	

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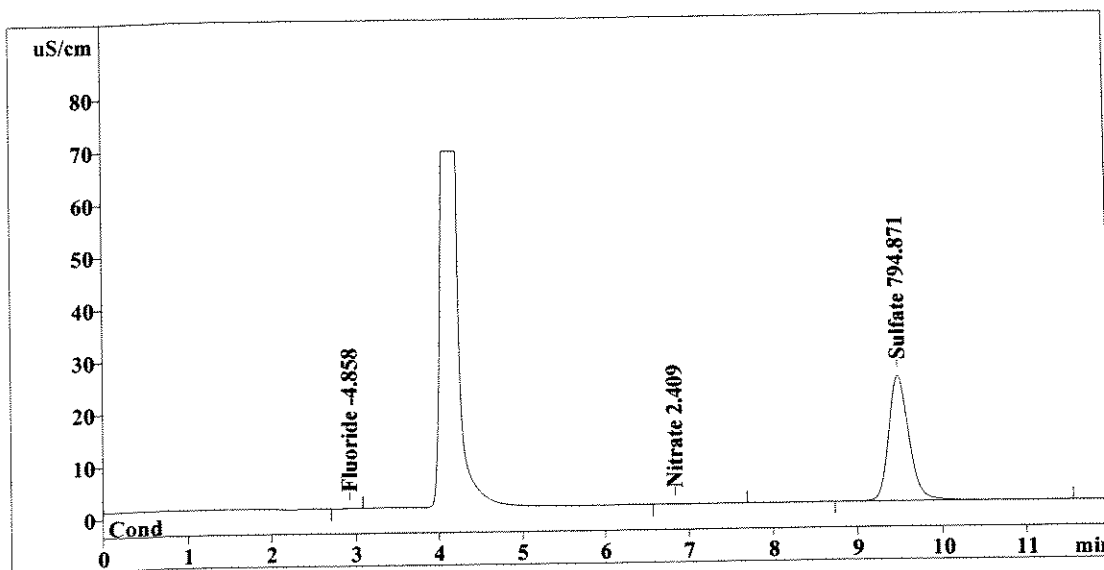
TC 6/27/08

Report date: 6/27/2008 12:14:07
 Printed by: User
 Ident: MC-16B 1112810
 Analysis from: 6/27/2008 12:02:08
 File: S6271202.CHW

Last save: 6/27/2008 12:14:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37581
 SAMPLE: CNNS
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.176	11400-4.858	Fluoride
2	0.00	0.000	OK 0.000	Chloride
3	0.00	0.000	OK 0.000	Nitrite
4	0.00	0.000	OK 0.000	Bromide
5	6.84	1.277	use 1/10 2.409	Nitrate
6	9.49	395.321	OK 794.871	Sulfate
6	12.00	396.774	802.139	

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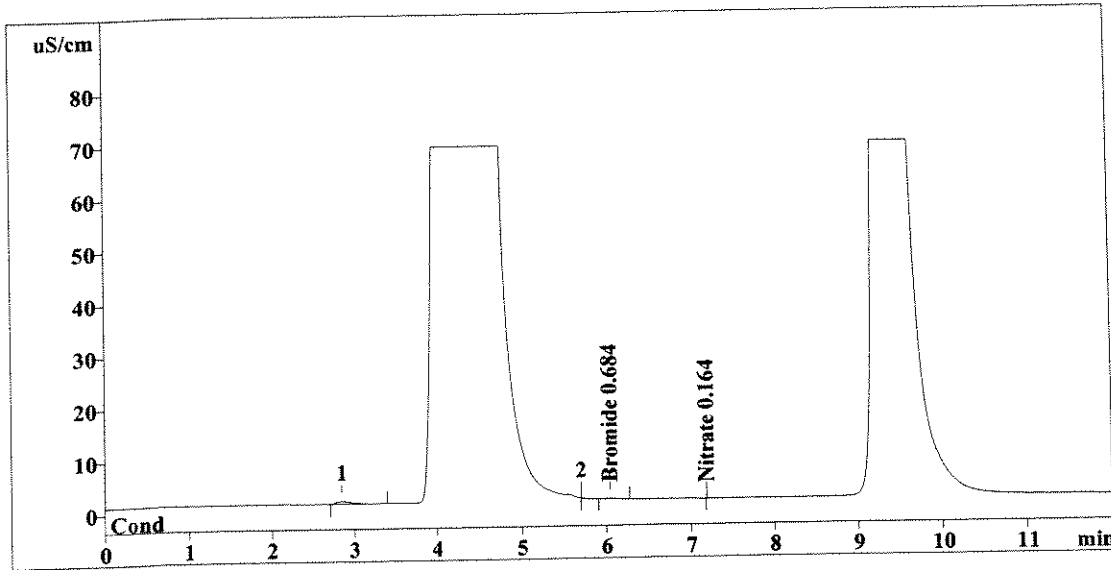
TC 6/30/08

Report date: 6/27/2008 12:28:13
 Printed by: User
 Ident: ~~MC-SAM-SAB~~ 1112911
 Analysis from: 6/27/2008 12:16:15
 File: TC 6/30/08 S6271216.CHW

Last save: 6/27/2008 12:28:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37582
 SAMPLE: CNNS
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.04	1.256	0.684	Bromide
5	7.18	0.000	0.164	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	1.256	0.848	

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TC 6/30/08

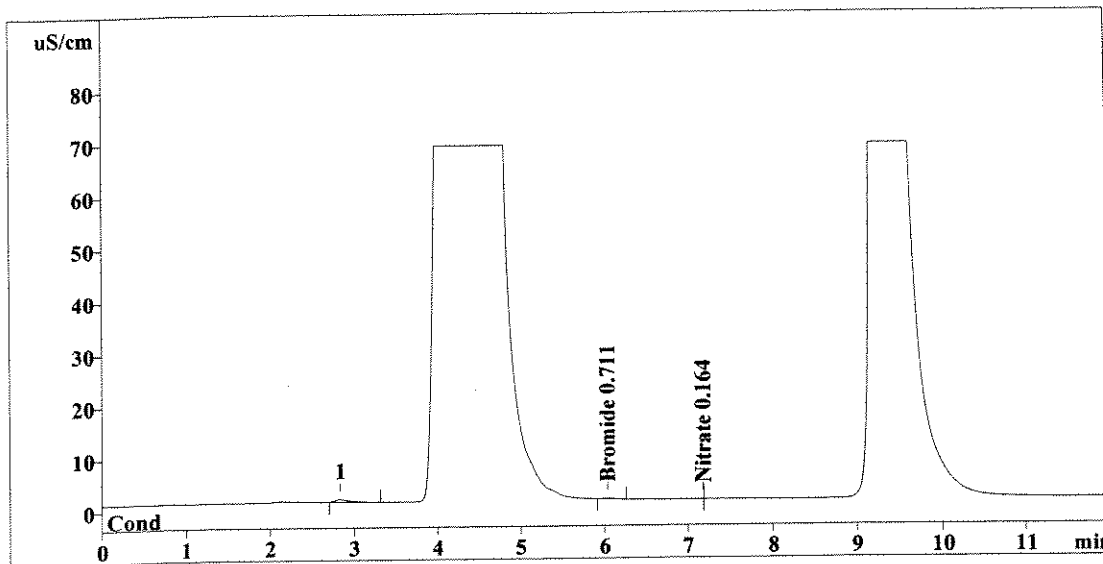
Report date: 6/27/2008 12:42:19
 Printed by: User
 Ident: ~~MC-5A-DUP~~ m-5A-Dup
 Analysis from: 6/27/2008 12:30:20
 File: S6271230.CHW

112811 Dup

Last save: 6/27/2008 12:42:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37583
 SAMPLE: CNNS
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.04	1.331	0.711	Bromide
5	7.18	-0.000	0.164	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	1.331	0.875	

1/40
1/100
0.164
1/100

TC 6/30/08

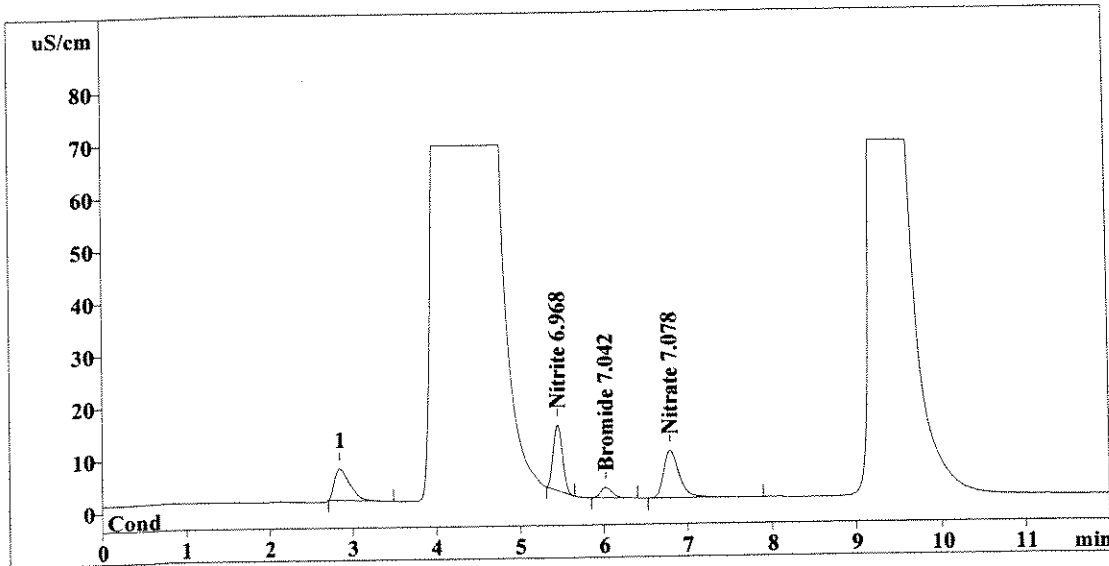
This report has been created by IC Net
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Report date: 6/27/2008 12:56:24
 Printed by: User
 Ident: ~~MG-5A-SPK~~ ^m ~~SAB~~ ^{SPK}
 Analysis from: *R* 6/27/2008 12:44:26
 File: *6/30/08* S6271244.CHW

Last save: 6/27/2008 12:56:24

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37584
 SAMPLE: CNNS
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.45	95.397	6.968	Nitrite
4	6.02	19.231	7.042	Bromide
5	6.80	114.991	7.078	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	229.619	21.088	

FAILS (next to Nitrate peak)
QC 4
 $\frac{19.231}{10} \times 100 = 69.1\%$ (handwritten calculation next to Bromide peak)

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TC *6/30/08*

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Method 300.0/9056

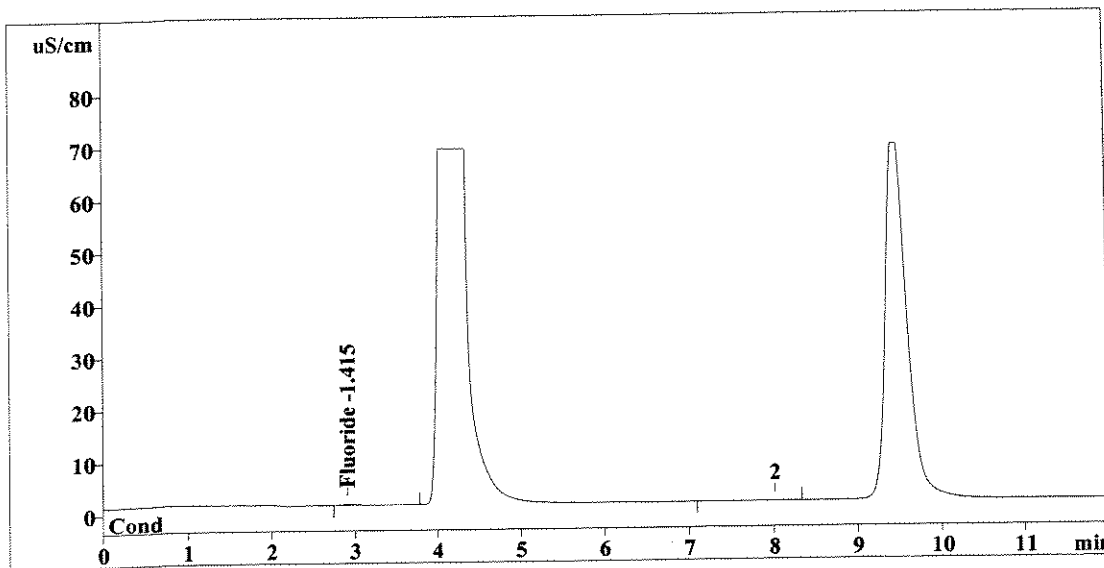
Report date: 6/27/2008 13:10:30
 Printed by: User
 Ident: ~~MC-SA 5-S m-SAB~~
 Analysis from: *R* 6/27/2008 12:58:32
 File: S6271258.CHW

112811

Last save: 6/27/2008 13:10:30

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37585
 SAMPLE: CNNS
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	1.614	-1.415	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	1.614	1.415	

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TC 6130108

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Method 300.0/9056

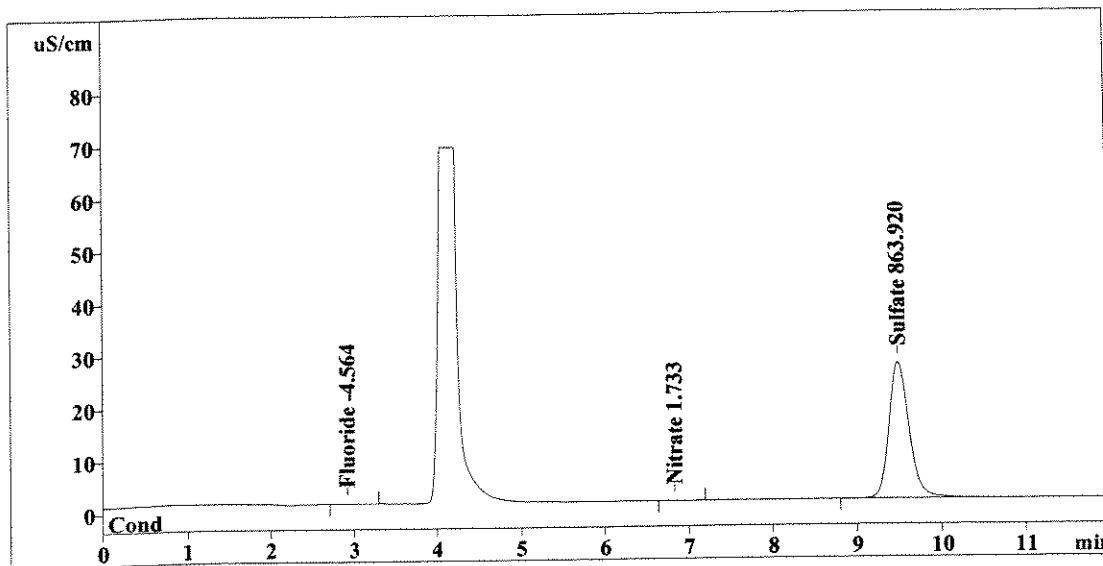
Report date: 6/27/2008 13:24:36
 Printed by: User
 Ident: ~~MC-5A M-5AB~~
 Analysis from: 6/27/2008 13:12:38
 File: S6271312.CHW

112811

Last save: 6/27/2008 13:24:36

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37586
 SAMPLE: CNNS
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.496	-4.564	Fluoride
2	0.00	0.000	^{1/400} 0.000	Chloride
3	0.00	0.000	OK 0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.83	0.154	use ^{1/10} 1.733	Nitrate
6	9.49	429.568	OK 863.920	Sulfate
6	12.00	430.217	870.217	

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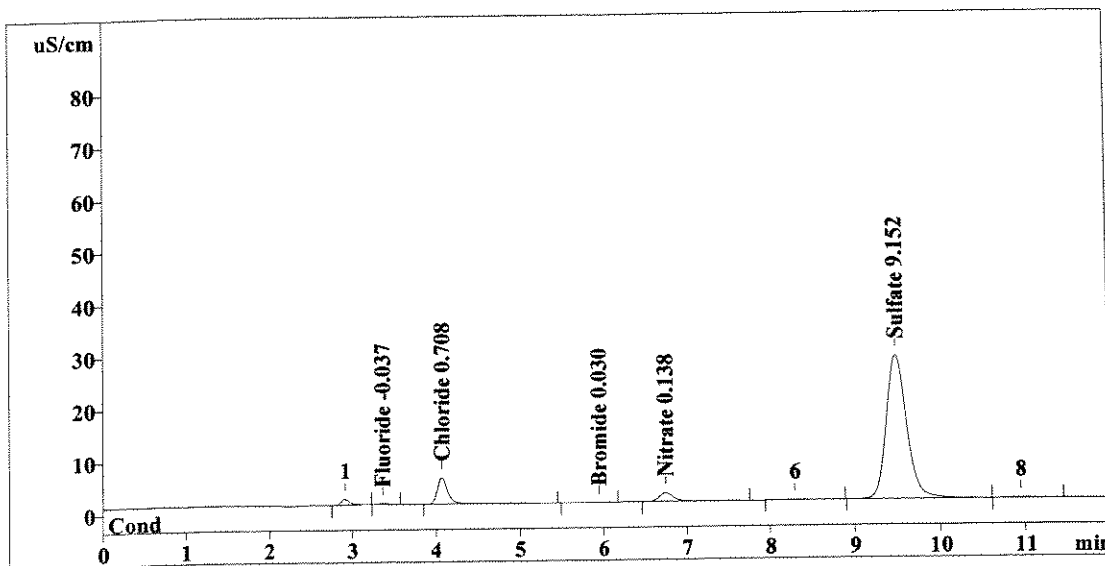
TC 6/30/08

Report date: 6/27/2008 14:35:06
 Printed by: User
 Ident: 1112361 R-44666
 Analysis from: 6/27/2008 14:23:08
 File: S6271423.CHW

Last save: 6/27/2008 14:35:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37591
 SAMPLE: EXT
 Vial number: 20
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	1.483	-0.037	Fluoride
2	4.07	44.782	0.708	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.95	0.158	0.030	Bromide
5	6.74	20.162	0.138	Nitrate
6	9.49	455.017	9.152	Sulfate
6	12.00	521.602	10.064	

Handwritten notes: $0.037 \times 250 = 9.275$ (near Fluoride), $0.708 \times 250 = 177$ (near Chloride), and 9.152 (near Sulfate). An arrow points from the Sulfate peak to the handwritten value 9.152.

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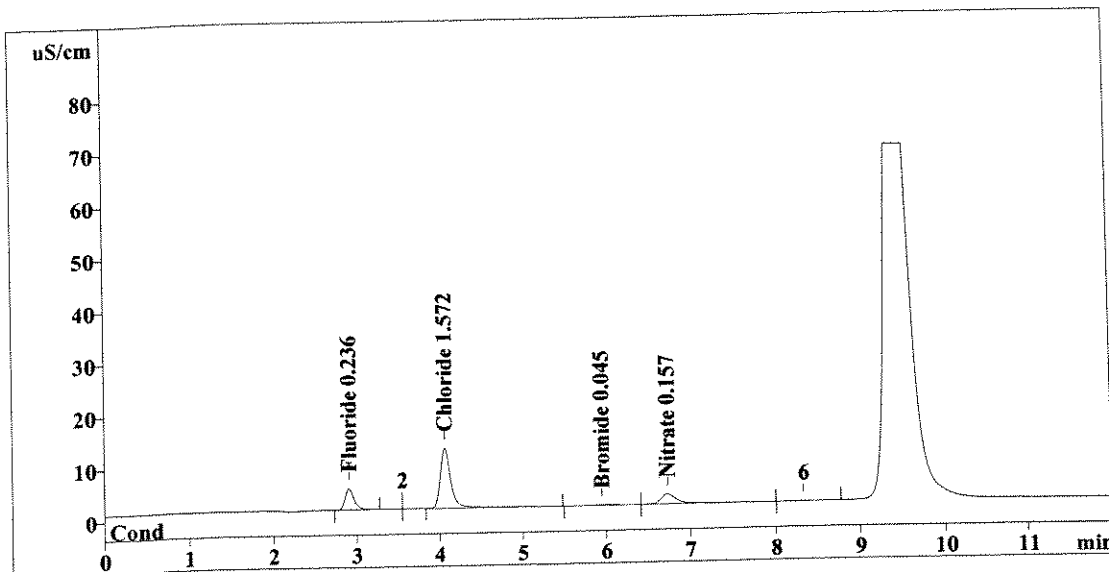
Method 300.0/9056

Report date: 6/27/2008 14:49:12
 Printed by: User
 Ident: 1112362
 Analysis from: 6/27/2008 14:37:14
 File: S6271437.CHW

Last save: 6/27/2008 14:49:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37592
 SAMPLE: EXT
 Vial number: 21
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	31.127	0.236	Fluoride
2	4.06	101.306	1.572	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.95	0.604	0.045	Bromide
5	6.74	23.389	0.157	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	156.426	2.010	

Handwritten notes: $1.572 \times \frac{250}{25.0} = 15.72$ (next to Chloride), and a downward arrow pointing to 1.57 (next to Nitrate).

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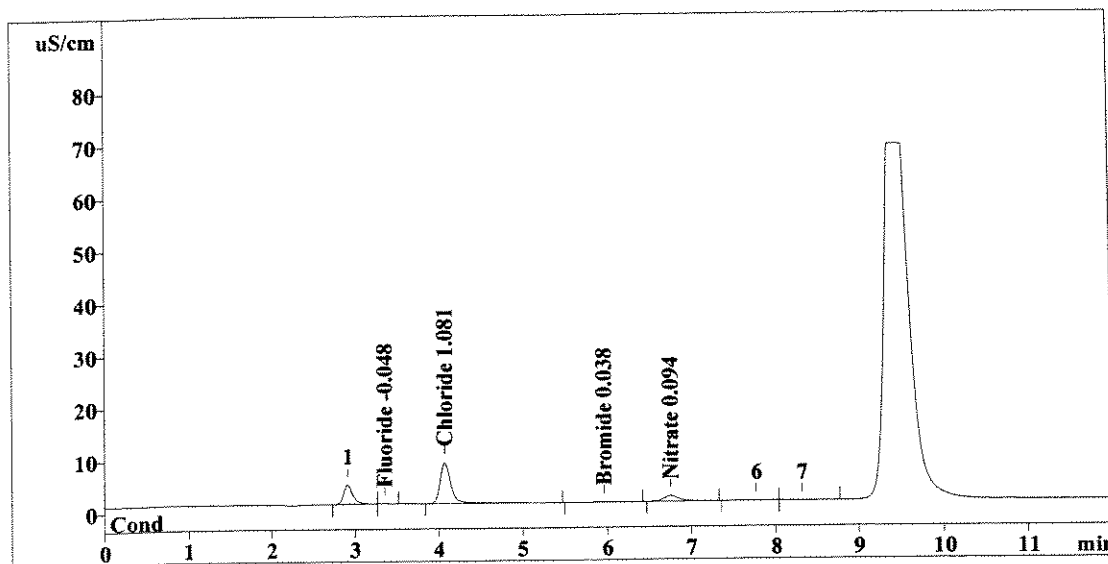
TC 6/30/08

Report date: 6/27/2008 15:03:18
 Printed by: User
 Ident: 1112362 DUP
 Analysis from: 6/27/2008 14:51:20
 File: S6271451.CHW

Last save: 6/27/2008 15:03:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37593
 SAMPLE: EXT
 Vial number: 22
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.239	-0.048	Fluoride
2	4.07	69.179	1.081	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.95	0.400	0.038	Bromide
5	6.76	12.880	0.094	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	82.698	1.261	

Handwritten notes:
 OK 1.081
 OK 0.038
 OK 0.094
 110
 Fluoride $\times \frac{250}{25.0} = 1.081$
 ↓

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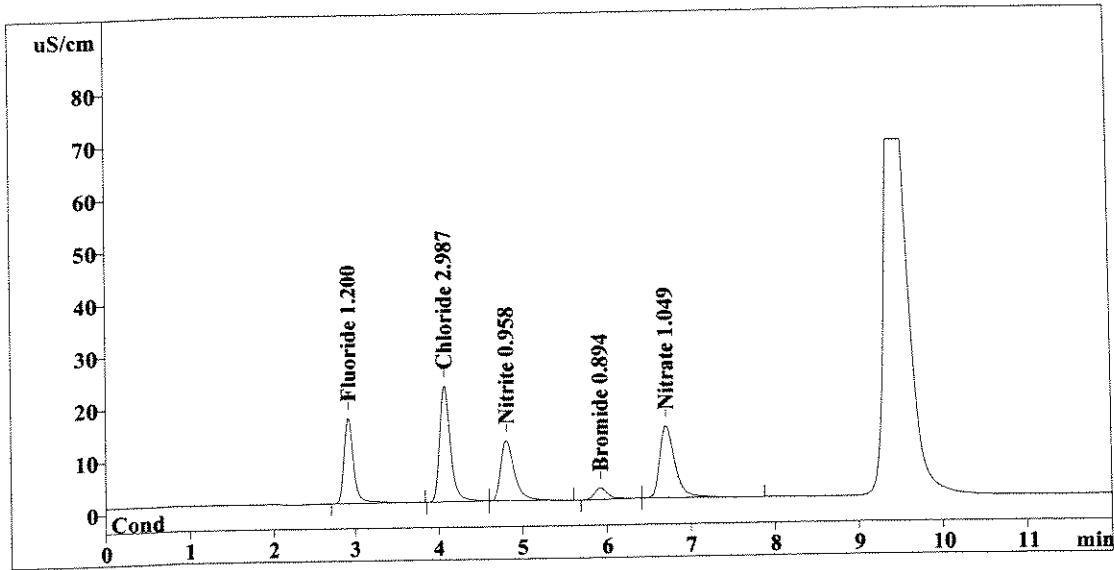
Handwritten: TC 6/30/08

Report date: 6/27/2008 15:17:24
 Printed by: User
 Ident: 1112362 SPK
 Analysis from: 6/27/2008 15:05:26
 File: S6271505.CHW

Last save: 6/27/2008 15:17:23

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37594
 SAMPLE: EXT
 Vial number: 23
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

Spilled @ IC bench

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	136.087	1.200	Fluoride
2	4.07	193.872	2.987	Chloride
3	4.80	130.877	0.958	Nitrite
4	5.92	24.586	0.894	Bromide
5	6.71	171.739	1.049	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	657.162	7.087	

FAILS

OK

OK

1/10

Fluoride - 1.572 x 100 = 70.8%
Chloride - 2.0 x 100 = 95.8%
Nitrite - 0.958 x 100 = 95.8%
Bromide - 1.0 x 100 = 89.2%
Nitrate - 0.157 x 100 = 89.2%

OK - 2.987 x 250 / 25.0 = 29.87

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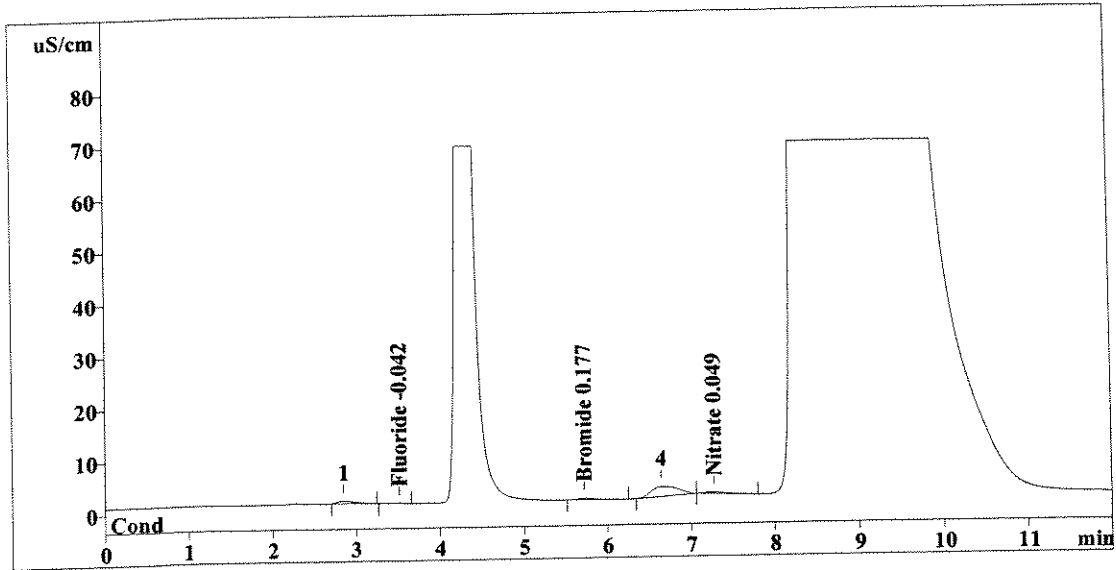
TC 6/30/08

Report date: 6/27/2008 15:31:30
 Printed by: User
 Ident: 1112363
 Analysis from: 6/27/2008 15:19:32
 File: S6271519.CHW

Last save: 6/27/2008 15:31:30

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37595
 SAMPLE: EXT
 Vial number: 24
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.52	0.946	-0.042	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.72	4.329	0.177	Bromide
5	7.28	5.424	0.049	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	10.699	0.268	

Handwritten notes: *1/4* next to Chloride, *OK* next to Nitrite, *RPT* next to Nitrate, *1/40* next to Sulfate.

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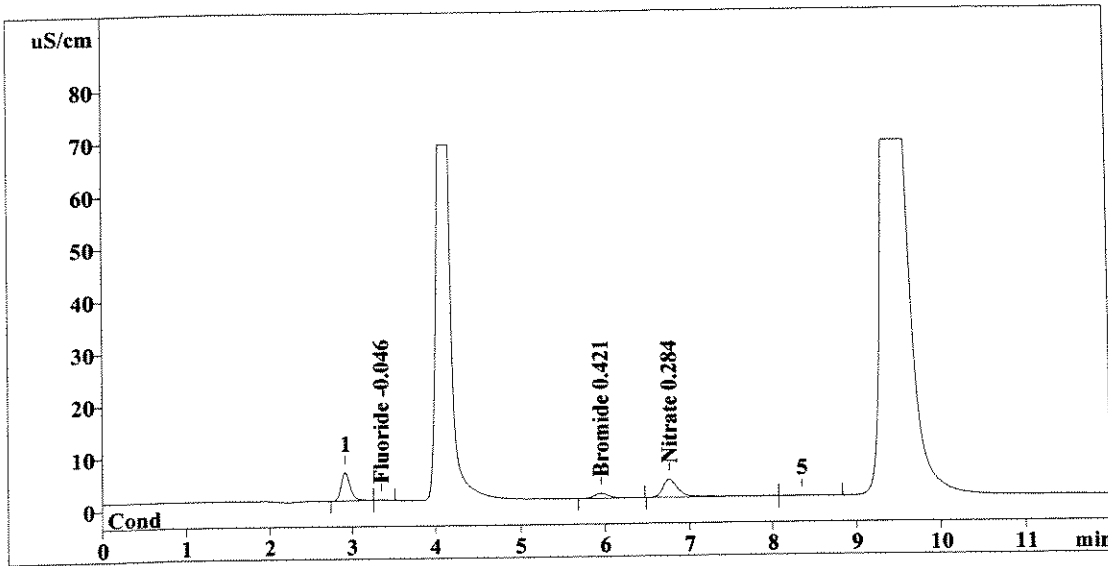
Method 300.0/9056

Report date: 6/27/2008 15:45:37
 Printed by: User
 Ident: 1112364
 Analysis from: 6/27/2008 15:33:38
 File: S6271533.CHW

Last save: 6/27/2008 15:45:36

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37596
 SAMPLE: EXT
 Vial number: 25
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.445	-0.046	Fluoride <i>25g → 280 µL</i>
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	11.238	-0.421	Bromide
5	6.76	44.509	0.284	Nitrate <i>284</i>
6	0.00	0.000	0.000	Sulfate
6	12.00	56.192	0.752	

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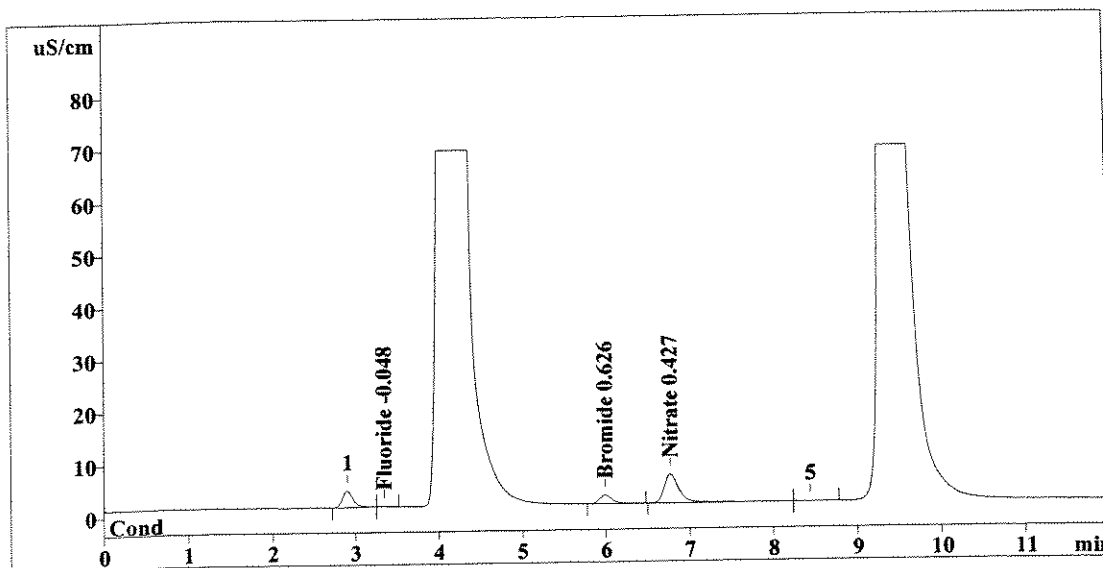
Method 300.0/9056

Report date: 6/27/2008 15:59:42
 Printed by: User
 Ident: 1112365
 Analysis from: 6/27/2008 15:47:44
 File: S6271547.CHW

Last save: 6/27/2008 15:59:42

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37597
 SAMPLE: EXT
 Vial number: 26
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.234	-0.048	Fluoride <i>25g → 250 mL</i>
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	17.029	0.626	Bromide
5	6.77	68.250	0.427	Nitrate <i>4.27</i>
6	0.00	0.000	0.000	Sulfate
6	12.00	85.513	1.101	

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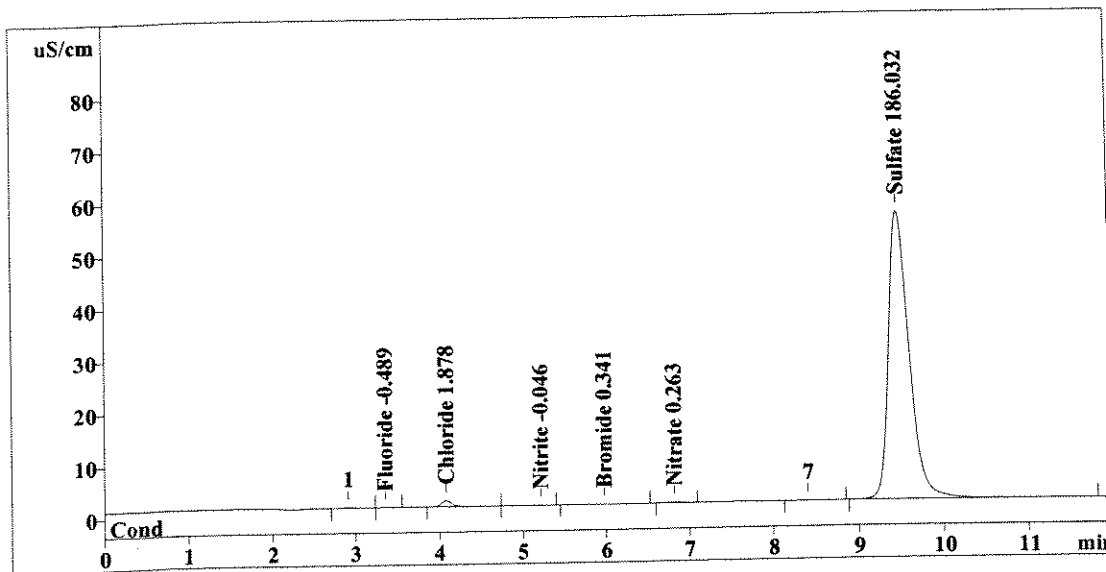
Method 300.0/9056

Report date: 6/27/2008 16:13:48
 Printed by: User 44134
 Ident: DGC-1S 1115042
 Analysis from: 6/27/2008 16:01:50
 File: S6271601.CHW

Last save: 6/27/2008 16:13:48

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37598
 SAMPLE: CBNS
 Vial number: 27
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.138	-0.489	Fluoride
2	4.08	10.762	OK 1.878	Chloride
3	5.22	0.098	-0.046	Nitrite
4	5.98	0.285	-0.341	Bromide
5	6.82	1.641	OK 0.263	Nitrate
6	9.49	923.778	1/40 186.032	Sulfate
6	12.00	936.703	189.049	

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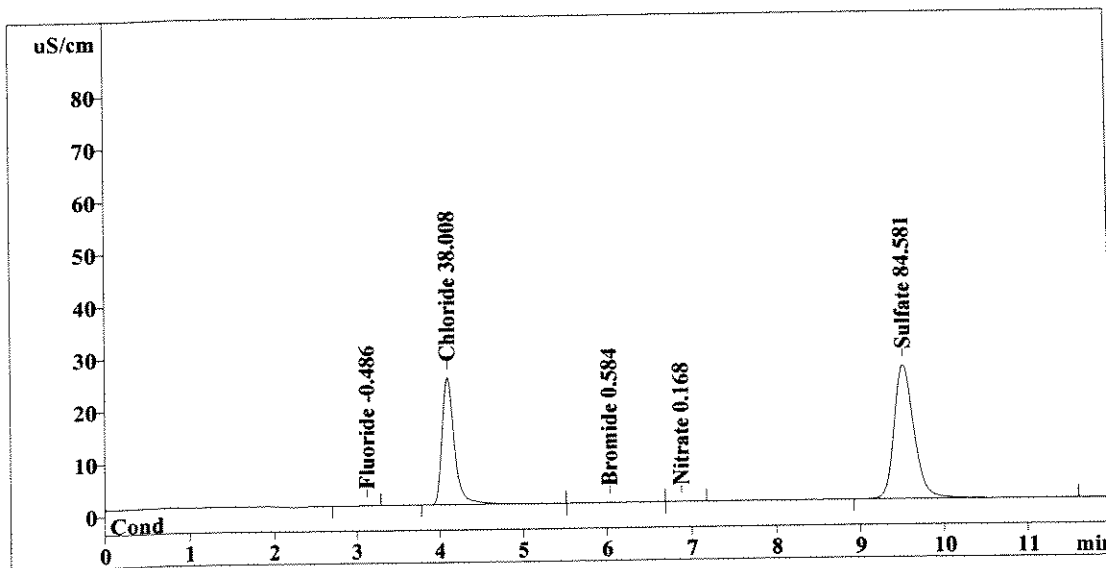
Method 300.0/9056

Report date: 6/27/2008 16:27:54
 Printed by: User
 Ident: CHA-75 *113043*
 Analysis from: 6/27/2008 16:15:56
 File: S6271615.CHW

Last save: 6/27/2008 16:27:54

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37599
 SAMPLE: CBNS
 Vial number: 28
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.12	0.175	-0.486	Fluoride
2	4.09	247.089	38.008	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.04	0.972	0.584	Bromide
5	6.87	0.071	0.168	Nitrate
6	9.53	420.587	84.581	Sulfate
6	12.00	668.894	123.828	

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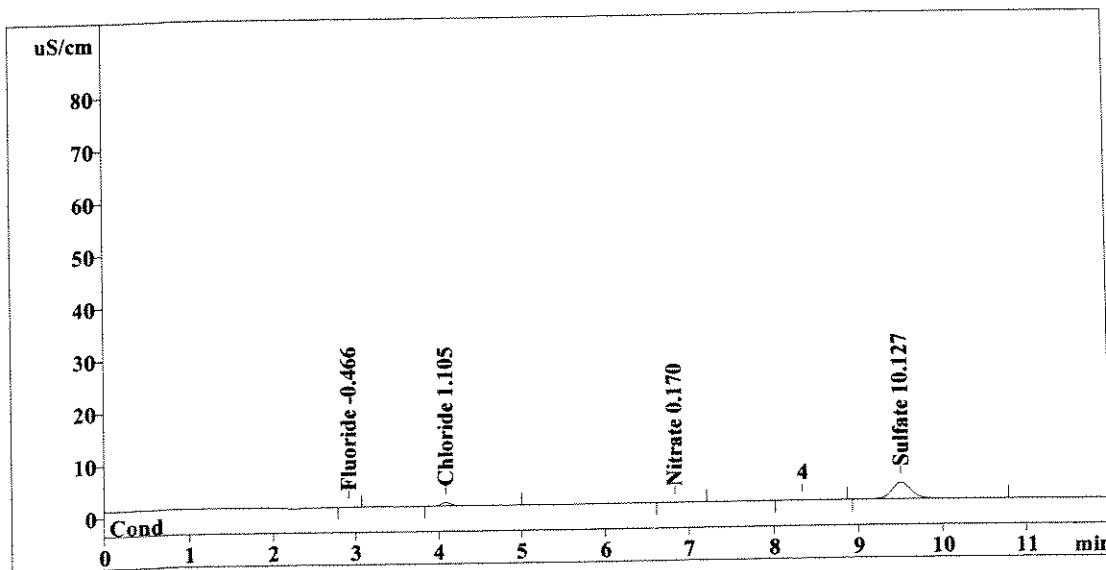
Method 300.0/9056

Report date: 6/27/2008 16:42:00
 Printed by: User
 Ident: DGC-4S *1113044*
 Analysis from: 6/27/2008 16:30:02
 File: S6271630.CHW

Last save: 6/27/2008 16:42:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37600
 SAMPLE: CBNS
 Vial number: 29
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.393	-0.466	Fluoride
2	4.08	5.709	<i>OK</i> 1.105	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.83	0.102	<i>OK</i> 0.170	Nitrate
6	9.51	51.300	<i>OK</i> 10.127	Sulfate
<hr/>			11.869	
6	12.00	57.503		

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 METROHM LTD

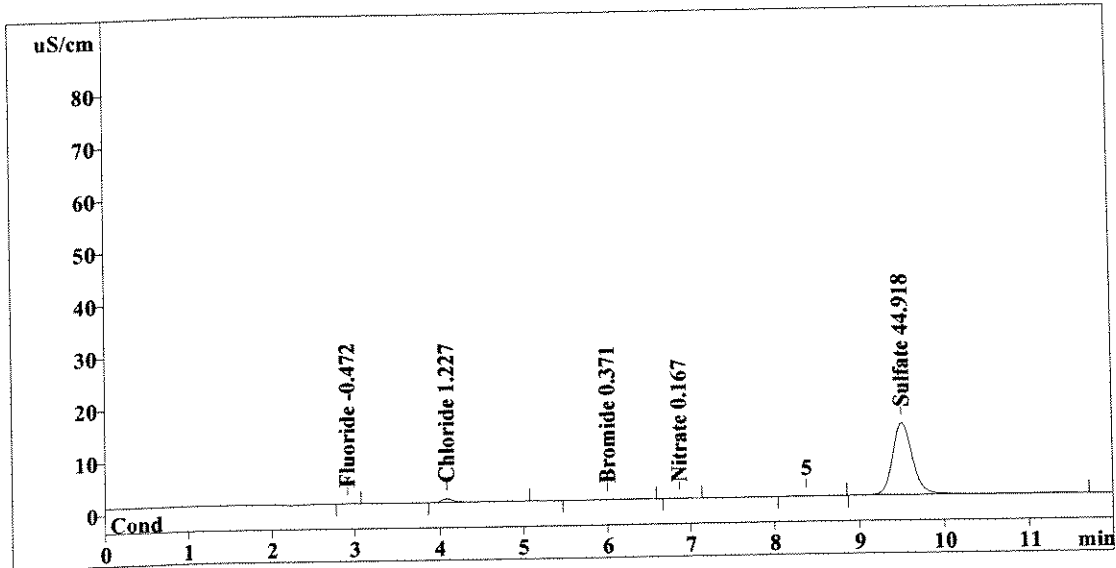
TC 6/30/08

Report date: 6/27/2008 16:56:06
 Printed by: User
 Ident: TCC-1 1113045
 Analysis from: 6/27/2008 16:44:08
 File: S6271644.CHW

Last save: 6/27/2008 16:56:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37601
 SAMPLE: CBNS
 Vial number: 30
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.328	-0.472	Fluoride
2	4.08	6.507	OK 1.227	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.00	0.371	0.371	Bromide
5	6.85	0.054	OK 0.167	Nitrate
6	9.51	223.862	OK 44.918	Sulfate
6	12.00	231.122	47.156	

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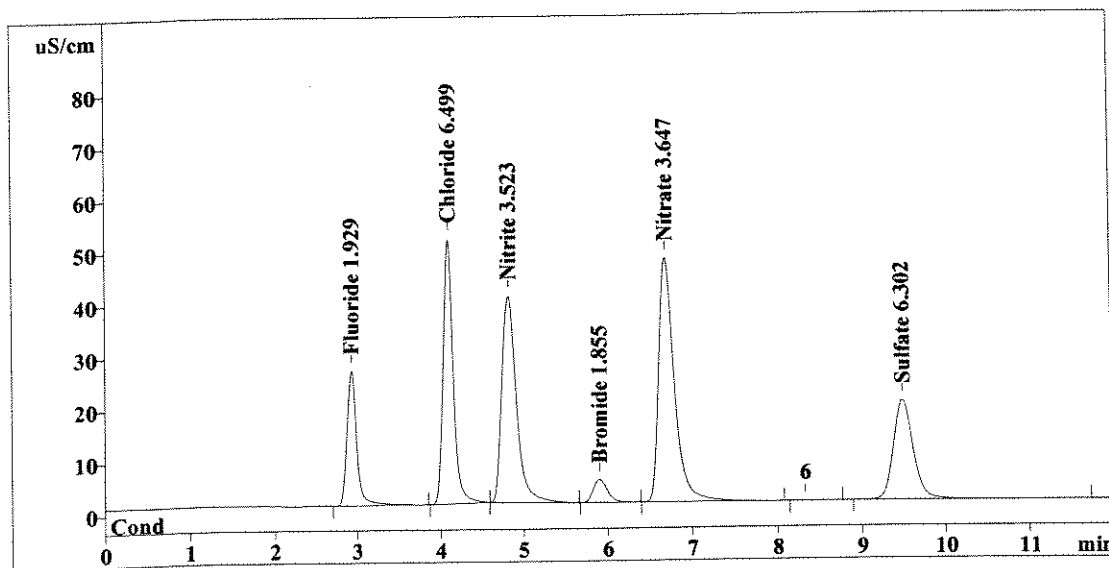
TC 6/30/08

Report date: 6/27/2008 17:10:12
 Printed by: User
 Ident: CCV
 Analysis from: 6/27/2008 16:58:14
 File: S6271658.CHW

Last save: 6/27/2008 17:10:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37602
 SAMPLE:
 Vial number: 31
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	215.449	1.929	Fluoride
2	4.08	423.579	6.499	Chloride
3	4.81	479.451	3.523	Nitrite
4	5.90	51.772	1.855	Bromide
5	6.68	603.934	3.647	Nitrate
6	9.49	313.660	6.302	Sulfate
6	12.00	2087.845	23.756	

OK
↓

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TC 6/28/08

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

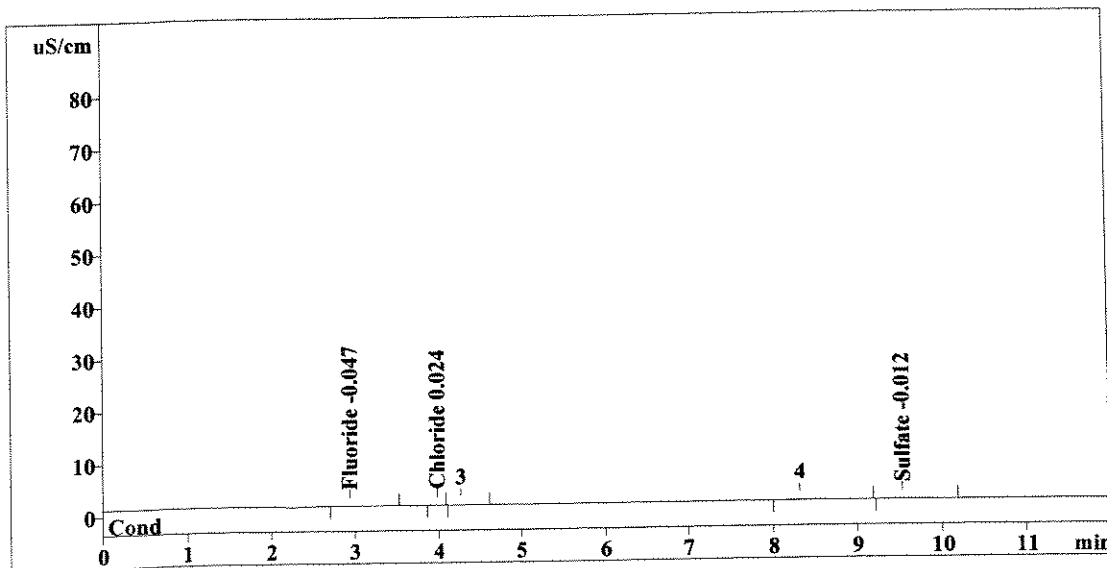
Method 300.0/9056

Report date: 6/27/2008 17:24:18
 Printed by: User
 Ident: CCB
 Analysis from: 6/27/2008 17:12:20
 File: S6271712.CHW

Last save: 6/27/2008 17:24:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37603
 SAMPLE:
 Vial number: 32
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	0.348	-0.047	Fluoride
2	3.98	0.077	0.024	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.54	0.465	-0.012	Sulfate
6	12.00	0.891	0.084	

OK
↓

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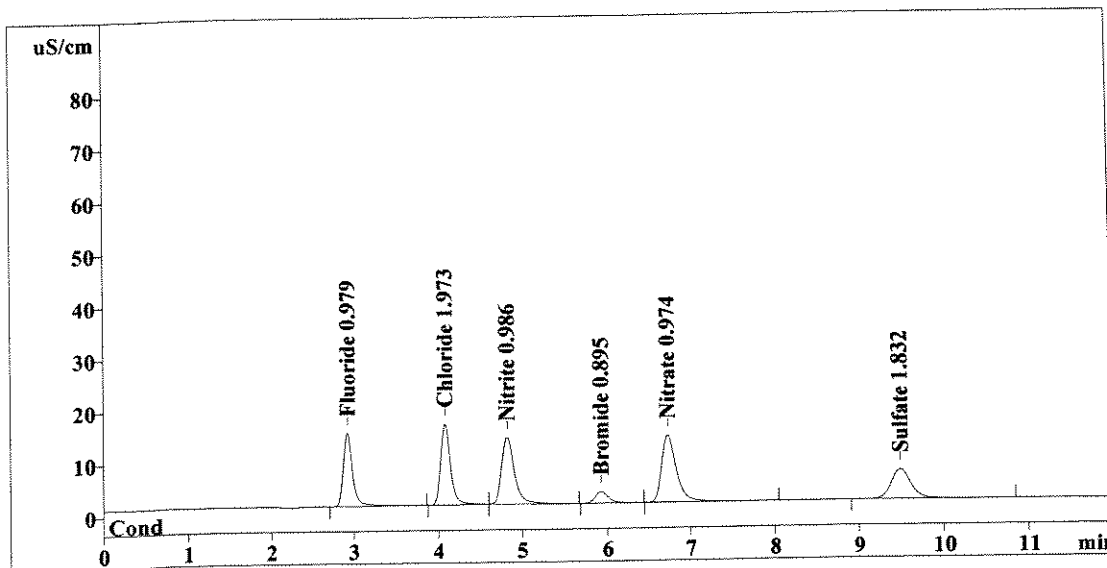
TC 6/28/08

Report date: 6/27/2008 17:38:24
 Printed by: User
 Ident: LCS
 Analysis from: 6/27/2008 17:26:25
 File: S6271726.CHW

Last save: 6/27/2008 17:38:23

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37604
 SAMPLE:
 Vial number: 33
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	112.066	0.979	Fluoride
2	4.08	127.553	1.973	Chloride
3	4.82	134.654	0.986	Nitrite
4	5.93	24.620	0.895	Bromide
5	6.73	159.256	0.974	Nitrate
6	9.50	91.955	1.832	Sulfate
6	12.00	650.104	7.639	

OK
↓

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TC 6/28/08

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

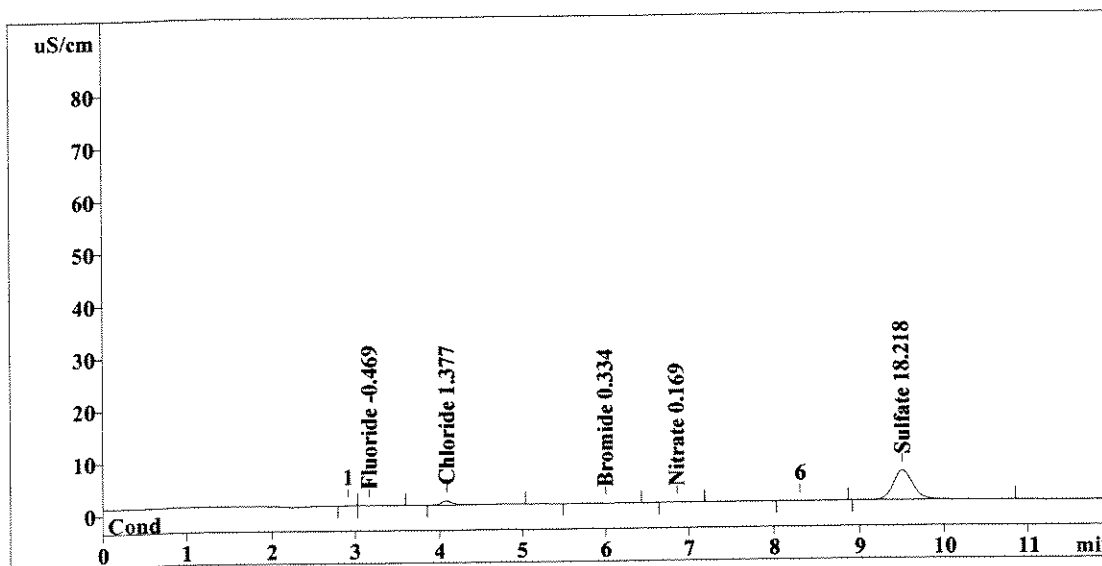
Method 300.0/9056

Report date: 6/27/2008 17:52:30
 Printed by: User
 Ident: TCC-2 1113046
 Analysis from: 6/27/2008 17:40:32
 File: S6271740.CHW

Last save: 6/27/2008 17:52:30

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37605
 SAMPLE: CBNS
 Vial number: 34
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.16	0.358	-0.469	Fluoride
2	4.08	7.484	OK 1.377	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	0.267	OK 0.334	Bromide
5	6.85	0.089	OK 0.169	Nitrate
6	9.51	91.430	OK 18.218	Sulfate
6	12.00	99.628	20.568	

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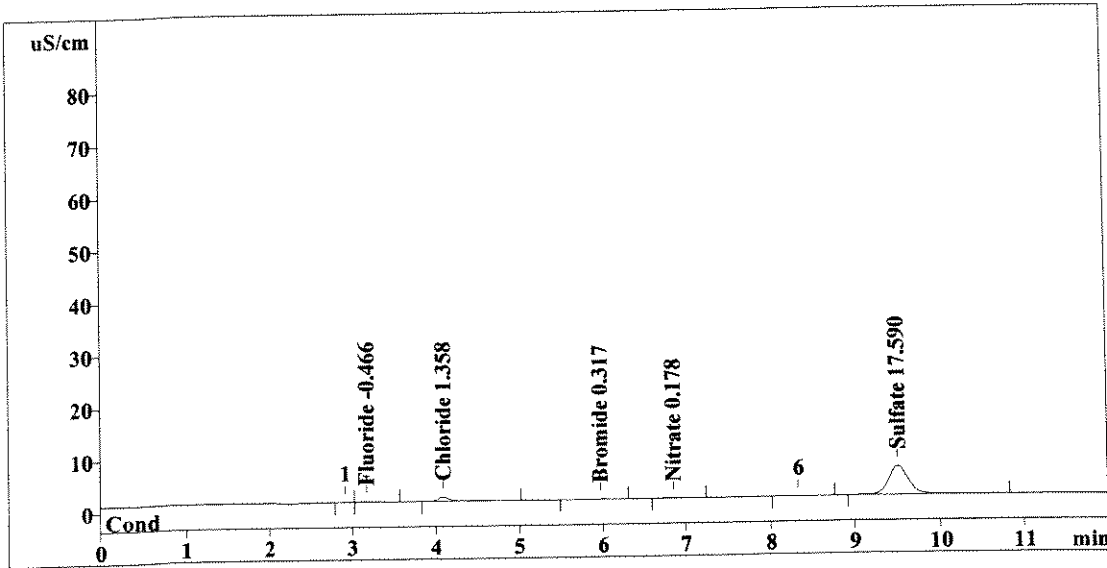
TC 6/30/08

Report date: 6/27/2008 18:06:36
 Printed by: User
 Ident: TCC-2 DUP *OK Dup*
 Analysis from: 6/27/2008 17:54:38
 File: S6271754.CHW

Last save: 6/27/2008 18:06:36

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37606
 SAMPLE: CBNS
 Vial number: 35
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.17	0.394	<i>OK</i> -0.466	Fluoride
2	4.08	7.360	1.358	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.218	<i>OK</i> 0.317	Bromide
5	6.85	0.237	<i>OK</i> 0.178	Nitrate
6	9.51	88.317	<i>OK</i> 17.590	Sulfate
6	12.00	96.526	19.909	

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TC 6/30/08

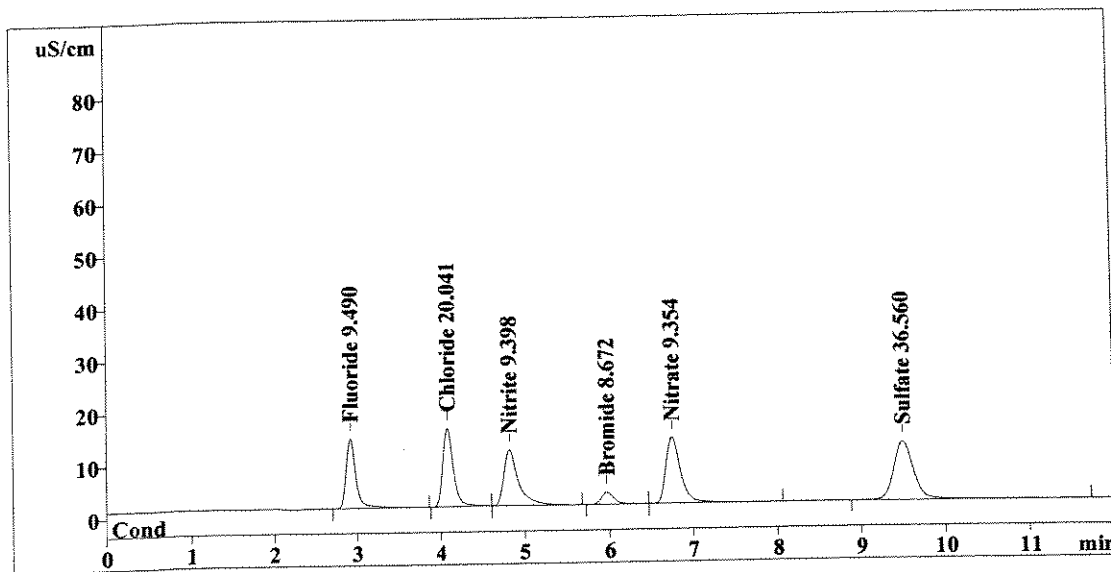
Report date: 6/27/2008 18:20:42
 Printed by: User
 Ident: TCC-2 SPK
 Analysis from: 6/27/2008 18:08:43
 File: S6271808.CHW

046SPK

Last save: 6/27/2008 18:20:41

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37607
 SAMPLE: CBNS
 Vial number: 36
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	108.792	9.490	Fluoride
2	4.08	129.569	20.041	Chloride
3	4.82	128.420	9.398	Nitrite
4	5.97	23.838	8.672	Bromide
5	6.75	152.856	9.354	Nitrate
6	9.50	182.407	36.560	Sulfate
6	12.00	725.882	93.516	

Handwritten calculations:
 Fluoride $\frac{1.317}{20} \times 100 = 93.3\%$
 Chloride $\frac{2.334}{20} \times 100 = 93.4\%$
 Nitrite $\frac{0.169}{10} \times 100 = 91.9\%$
 Sulfate $\frac{18.218}{20} \times 100 = 91.7\%$

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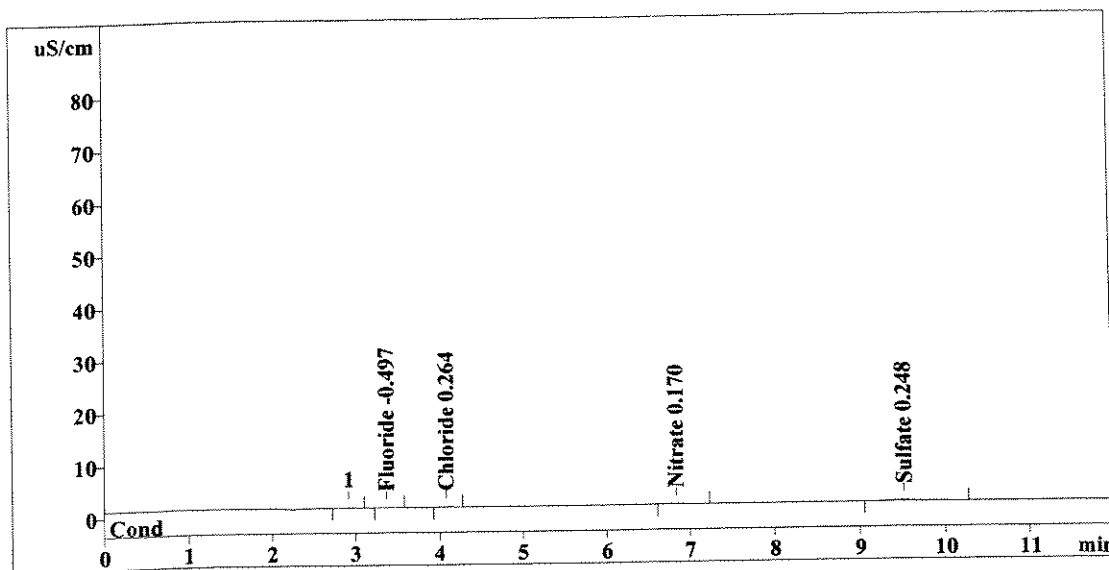
TC 6/30/08

Report date: 6/27/2008 18:34:47
 Printed by: User
 Ident: SW-1 113047
 Analysis from: 6/27/2008 18:22:49
 File: S6271822.CHW

Last save: 6/27/2008 18:34:47

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37608
 SAMPLE: CBNS
 Vial number: 37
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.053	-0.497	Fluoride
2	4.08	0.207	OK 0.264	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	OK 0.000	Bromide
5	6.84	0.106	OK 0.170	Nitrate
6	9.51	2.301	OK 0.248	Sulfate
6	12.00	2.667	1.180	

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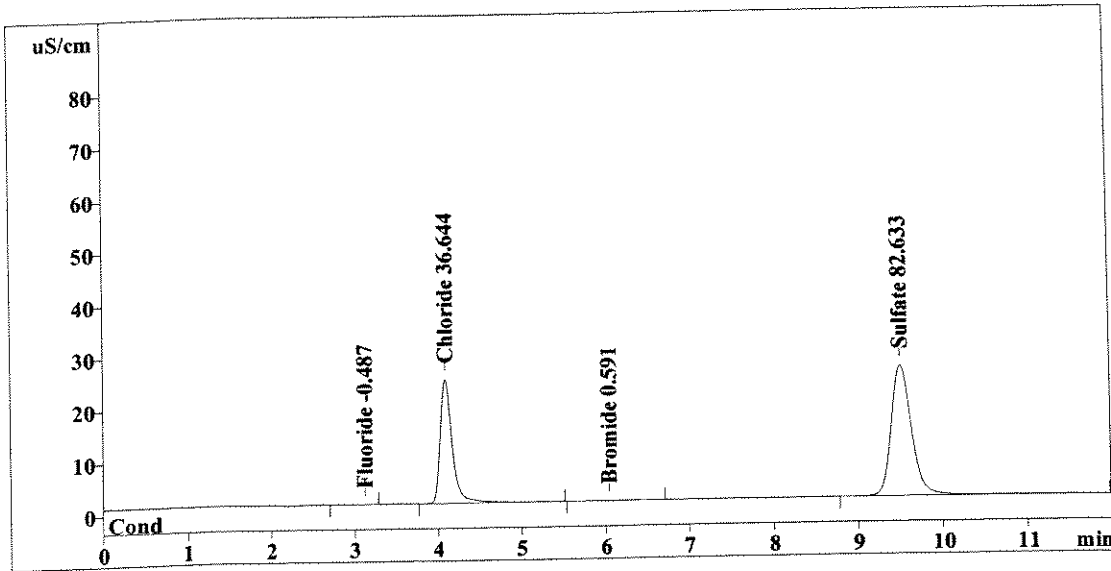
TC 6/30/08

Report date: 6/27/2008 18:48:53
 Printed by: User
 Ident: CHA-7S DUP 1113048
 Analysis from: 6/27/2008 18:36:55
 File: S6271836.CHW

Last save: 6/27/2008 18:48:53

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37609
 SAMPLE: CBNS
 Vial number: 38
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.12	0.160	-0.487	Fluoride
2	4.09	238.163	OK 36.644	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.04	0.994	OK 0.591	Bromide
5	0.00	0.000	OK 0.000	Nitrate
6	9.51	410.924	OK 82.633	Sulfate
6	12.00	650.241	120.355	

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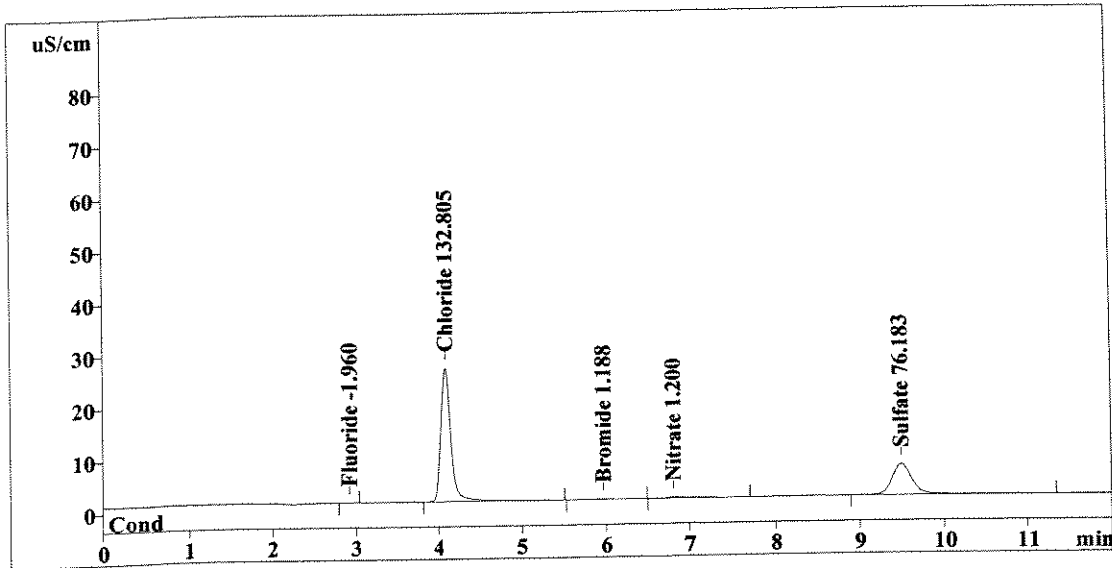
TC 6/30/08

Report date: 6/27/2008 19:02:59
 Printed by: User
 Ident: 1111726 R-44621
 Analysis from: 6/27/2008 18:51:01
 File: S6271851.CHW

Last save: 6/27/2008 19:02:59

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37610
 SAMPLE: C
 Vial number: 39
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.130	-1.960	Fluoride
2	4.08	215.647	132.805	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	0.162	1.188	Bromide
5	6.82	2.261	1.200	Nitrate
6	9.50	95.536	76.183	Sulfate
6	12.00	313.735	213.337	

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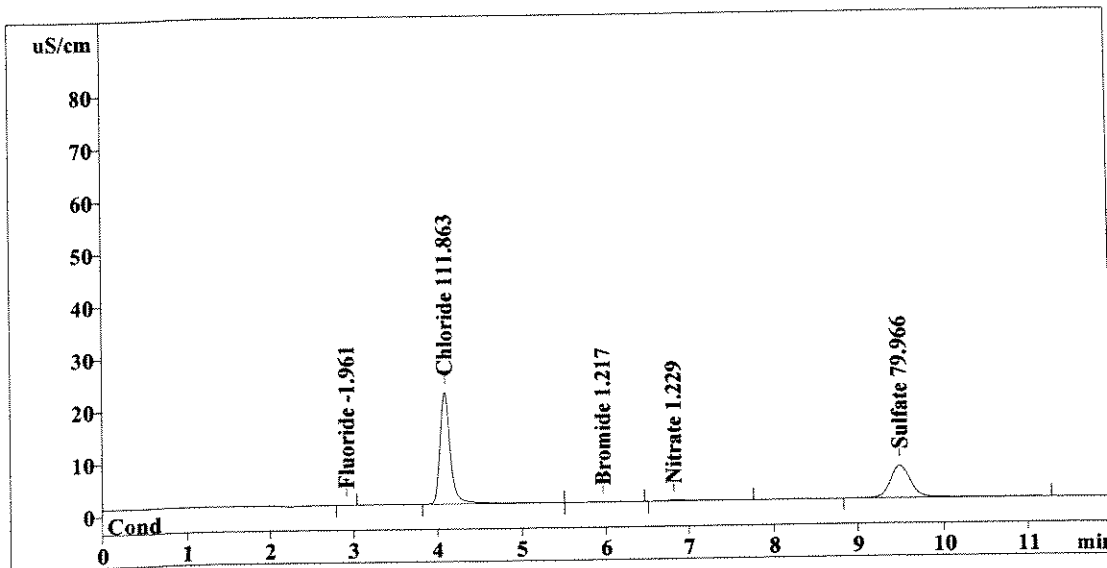
TC 6/30/08

Report date: 6/27/2008 19:17:05
 Printed by: User
 Ident: 1111727
 Analysis from: 6/27/2008 19:05:07
 File: S6271905.CHW

Last save: 6/27/2008 19:17:05

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37611
 SAMPLE: C
 Vial number: 40
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.127	-1.961	Fluoride
2	4.08	181.401	111.863	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.182	1.217	Bromide
5	6.82	2.383	1.229	Nitrate
6	9.49	100.226	79.966	Sulfate
6	12.00	284.318	196.236	

This report has been created by IC Net
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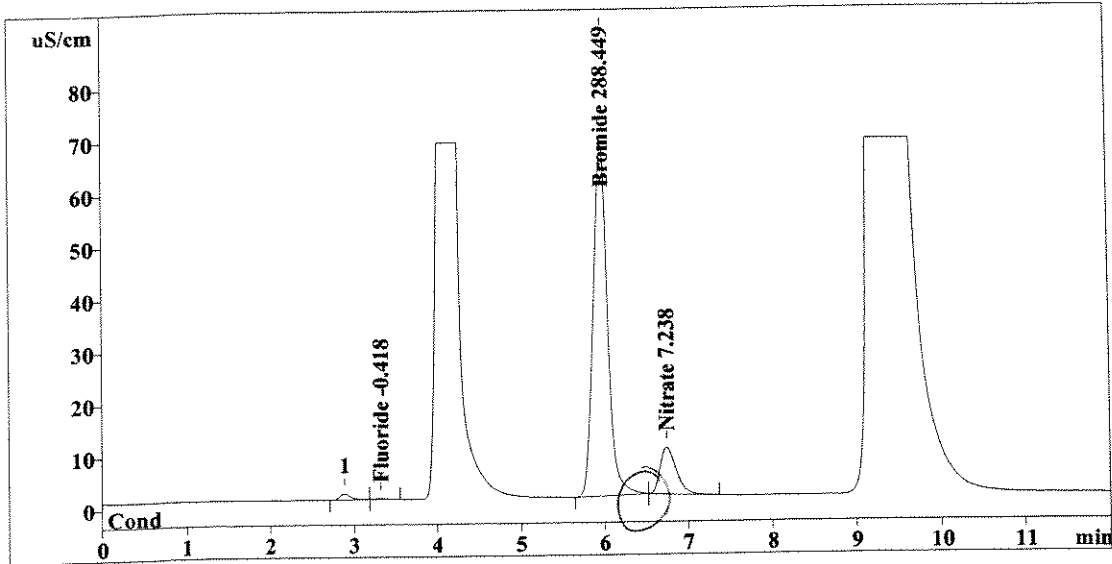
Te 6/30/08

Report date: 6/27/2008 19:31:10
 Printed by: User
 Ident: 1112871 R-44650
 Analysis from: 6/27/2008 19:19:12
 File: S6271919.CHW

Last save: 6/27/2008 19:31:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37612
 SAMPLE: CBNNS
 Vial number: 41
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.32	0.918	-0.418	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	814.825	288.449	Bromide
5	6.75	117.658	7.238	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	933.400	296.105	

Replaced

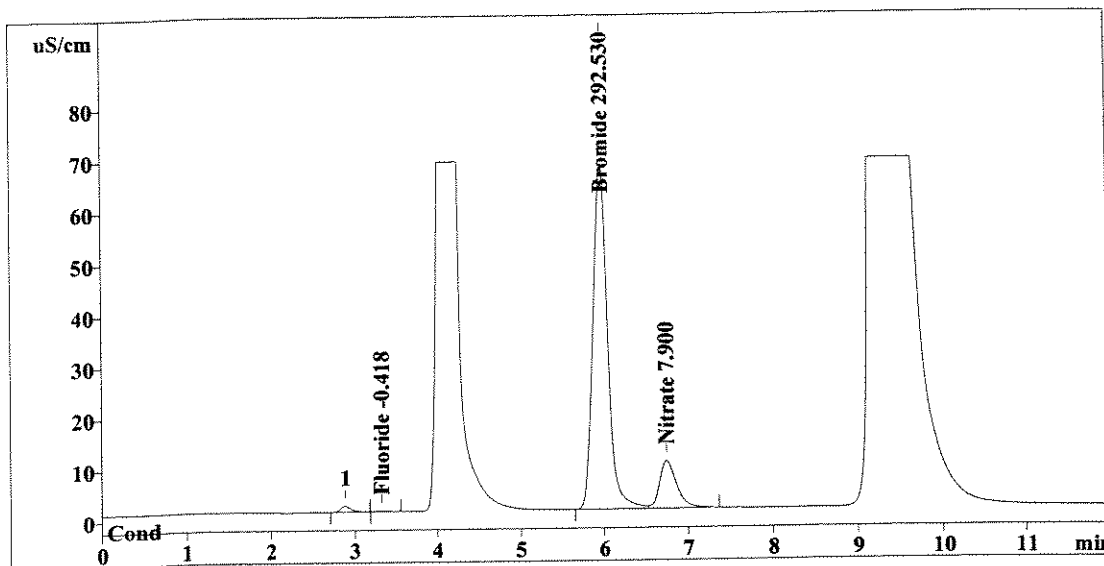
This report has been created by IC Net
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TC 6/30/08

Report date: 6/30/2008 13:18:14
 Printed by: User
 Ident: 1112871 R-44650
 Analysis from: 6/27/2008 19:19:12
 File: s6271919.chw
 Modified! Manual peaks!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37612
 SAMPLE: CBNNS
 Vial number: 41
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 19:31:10

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.32	0.918	-0.418	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	826.363	292.530	Bromide
5	6.75	128.674	7.900	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	955.955	300.849	

Handwritten notes: 1/100, 1/40, 1/100, Reprocessed OK, 1/400

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TC 6/30/08

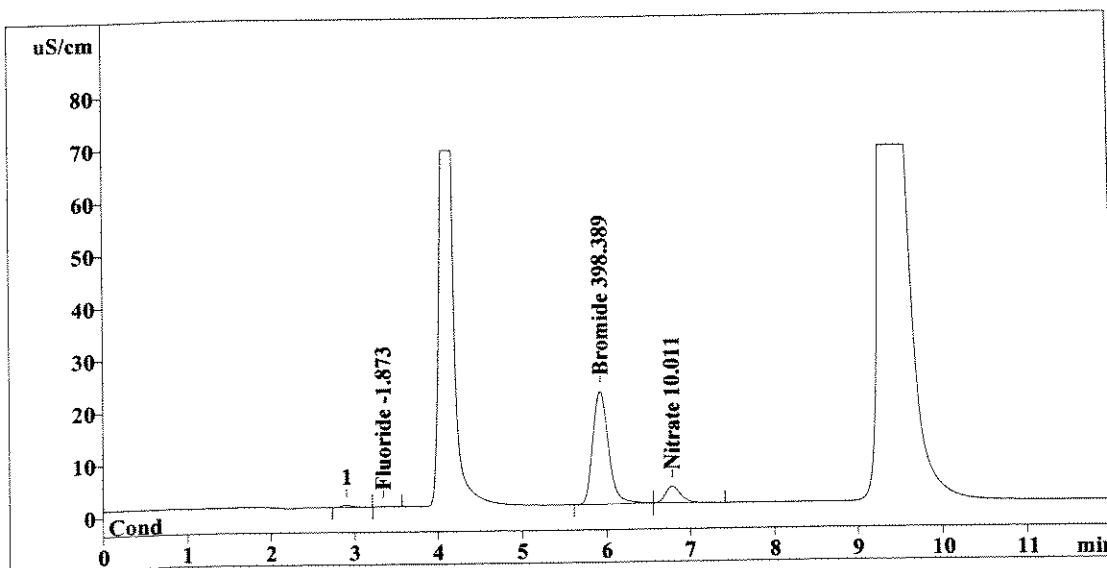
SD 7/8/08

Report date: 6/27/2008 19:45:17
 Printed by: User
 Ident: 1112871
 Analysis from: 6/27/2008 19:33:18
 File: S6271933.CHW

Last save: 6/27/2008 19:45:17

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37613
 SAMPLE: CBNNS
 Vial number: 42
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.366	-1.873	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.93	280.903	398.389	Bromide
5	6.79	38.899	10.011	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	320.168	410.273	

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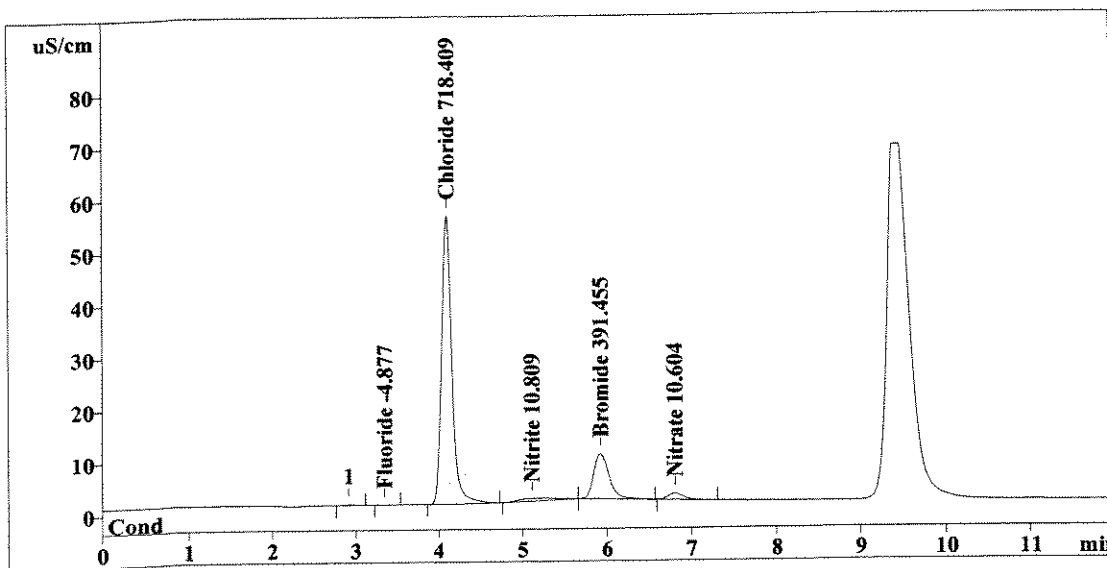
TC 6/30/08

Report date: 6/27/2008 19:59:22
 Printed by: User
 Ident: 1112871
 Analysis from: 6/27/2008 19:47:24
 File: S6271947.CHW

Last save: 6/27/2008 19:59:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37614
 SAMPLE: CBNNS
 Vial number: 43
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.156	-4.877	Fluoride
2	4.09	468.387	OK 718.409	Chloride
3	5.11	15.411	use 1/40 10.809	Nitrite
4	5.92	109.994	OK 391.455	Bromide
5	6.81	14.907	use 1/10 10.604	Nitrate
6	0.00	0.000	1/400 0.000	Sulfate
6	12.00	608.854	1136.153	

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TC 6/30/08

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

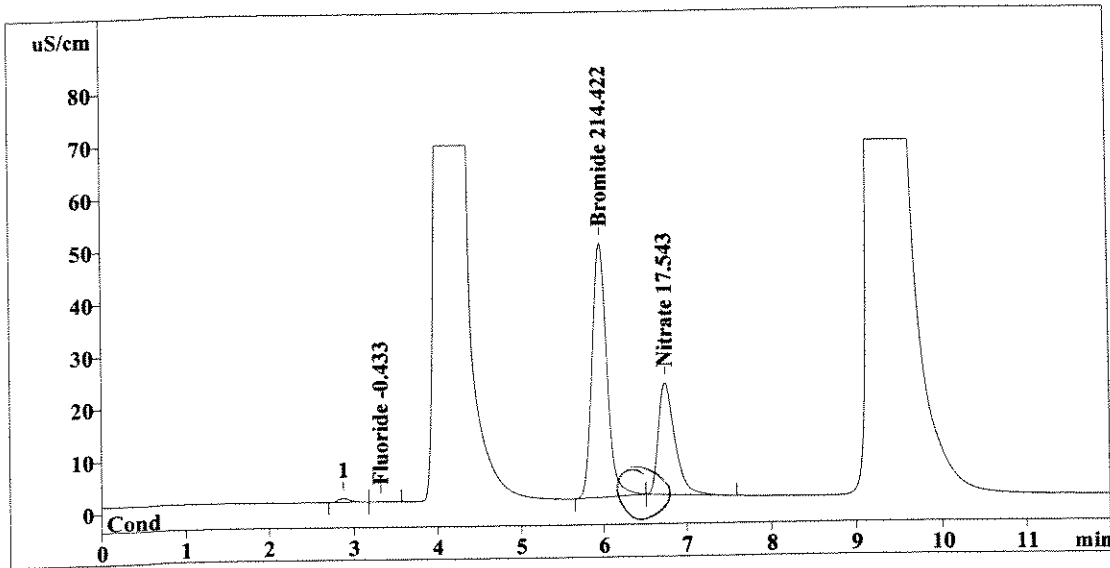
Method 300.0/9056

Report date: 6/27/2008 20:13:28
 Printed by: User
 Ident: 1112872
 Analysis from: 6/27/2008 20:01:30
 File: S6272001.CHW

Last save: 6/27/2008 20:13:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37615
 SAMPLE: CBNNs
 Vial number: 44
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.31	0.756	-0.433	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	605.536	214.422	Bromide
5	6.75	289.051	17.543	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	895.343	232.398	

Reprocess

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TC 6/30/08

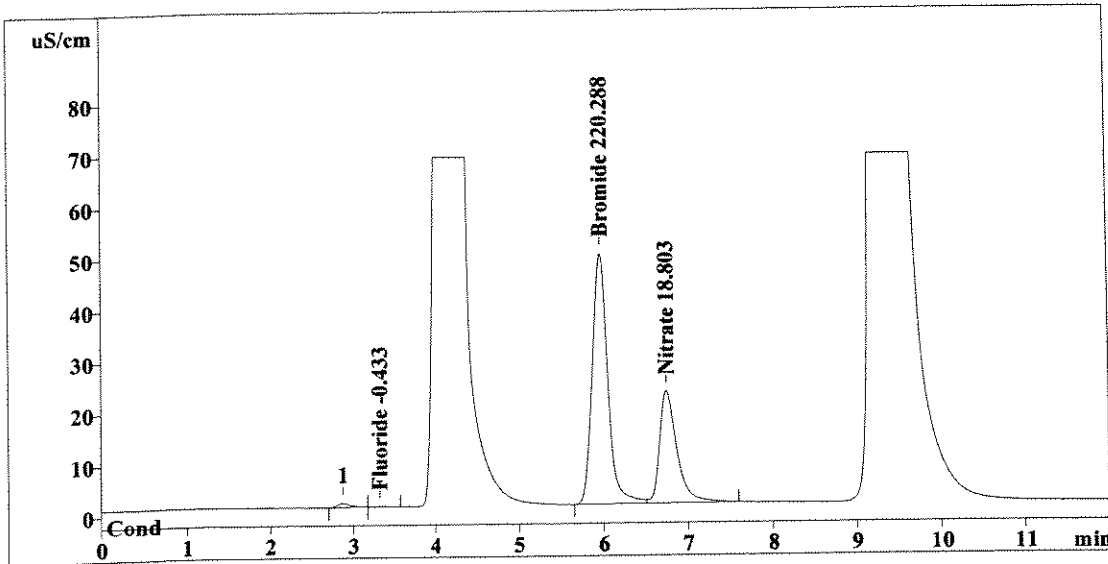
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

Method 300.0/9056

Report date: 6/30/2008 13:25:39
 Printed by: User
 Ident: 1112872
 Analysis from: 6/27/2008 20:01:30
 File: s6272001.chw
 Modified! Manual peaks!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37615
 SAMPLE: CBNNS
 Vial number: 44
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 20:13:28

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.31	0.756	-0.433	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	622.120	220.288	Bromide
5	6.75	310.016	18.803	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	932.892	239.524	

Reprocessed

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TC 6/30/08

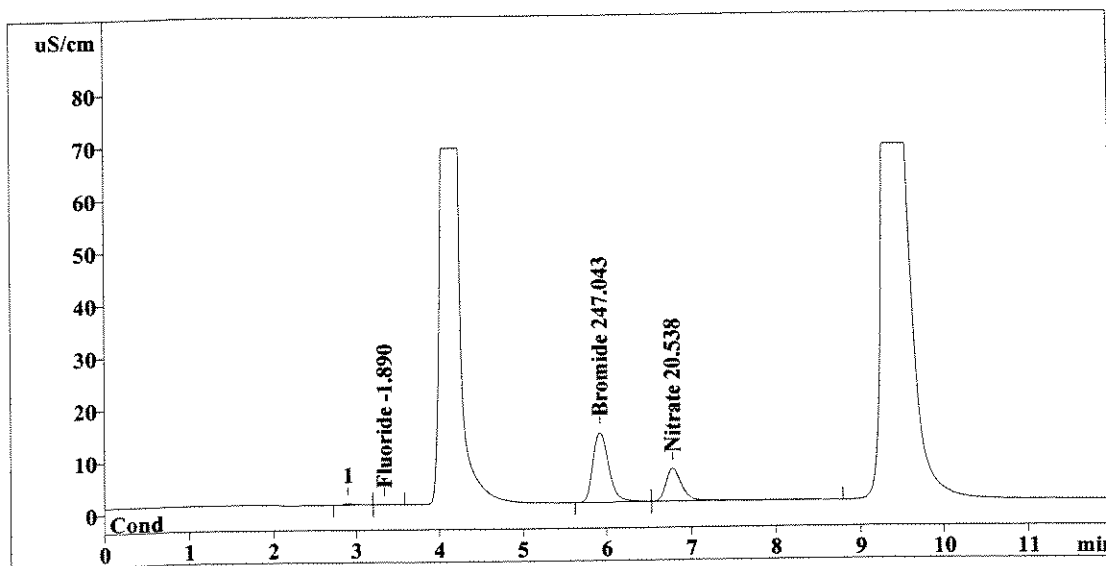
SD 7/9/08

Report date: 6/27/2008 20:27:34
 Printed by: User
 Ident: 1112872
 Analysis from: 6/27/2008 20:15:36
 File: S6272015.CHW

Last save: 6/27/2008 20:27:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37616
 SAMPLE: CBNNS
 Vial number: 45
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.322	-1.890	Fluoride
2	0.00	0.000	1/400 0.000	Chloride
3	0.00	0.000	OK 0.000	Nitrite
4	5.93	173.931	1/100 247.043	Bromide
5	6.78	82.671	use 1/10 20.538	Nitrate
6	0.00	0.000	1/400 0.000	Sulfate
<hr/>				
6	12.00	256.925	269.471	

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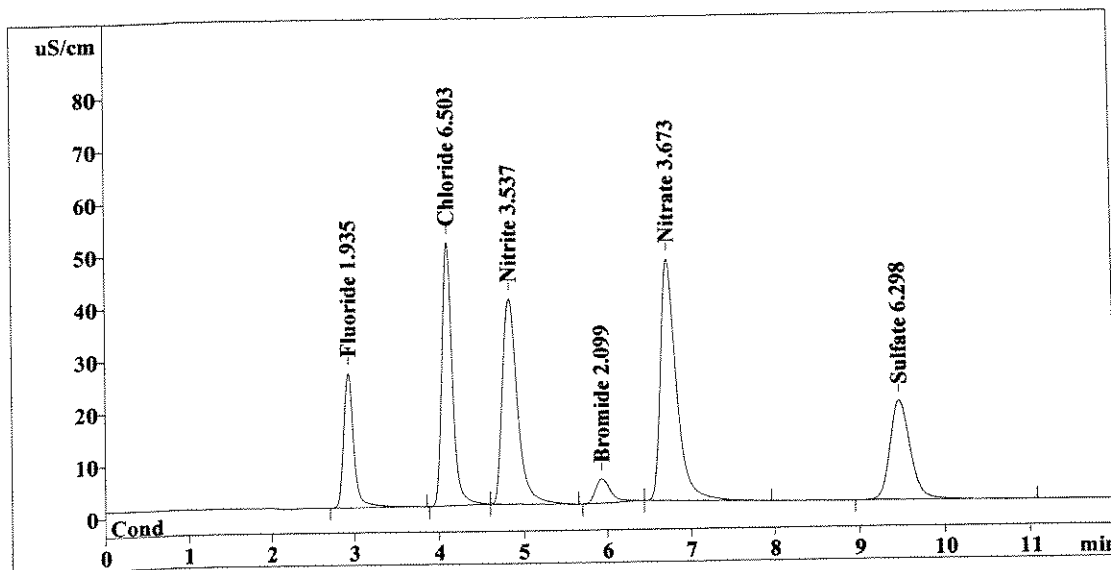
TC 6/30/08

Report date: 6/27/2008 20:41:40
 Printed by: User
 Ident: CCV
 Analysis from: 6/27/2008 20:29:42
 File: S6272029.CHW

Last save: 6/27/2008 20:41:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37617
 SAMPLE:
 Vial number: 46
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	216.174	1.935	Fluoride
2	4.09	423.846	6.503	Chloride
3	4.83	481.272	3.537	Nitrite
4	5.93	58.671	2.099	Bromide
5	6.72	608.212	3.673	Nitrate
6	9.48	313.443	6.298	Sulfate
6	12.00	2101.619	24.045	

OK
↓

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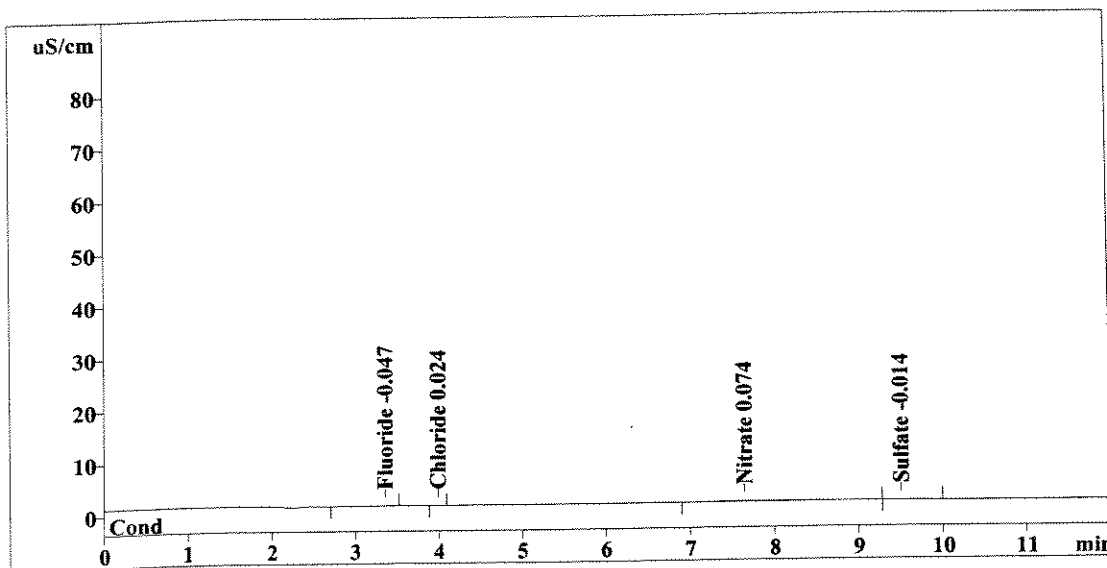
TC 6/30/08

Report date: 6/27/2008 20:55:46
 Printed by: User
 Ident: CCB
 Analysis from: 6/27/2008 20:43:47
 File: S6272043.CHW

Last save: 6/27/2008 20:55:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37618
 SAMPLE:
 Vial number: 47
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.352	-0.047	Fluoride
2	3.99	0.066	0.024	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.64	9.622	0.074 SD 7/8/08	Nitrate
6	9.52	0.383	-0.014	Sulfate
6	12.00	10.423	0.159	

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*CCPS OK
 NO3 needs
 Reprocess*

*TC
 6/30/08*

*Does not need
 reprocess - baseline
 shift SD 7/8/08*

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 Columbia Analytical Services
 Rochester, NY 14609

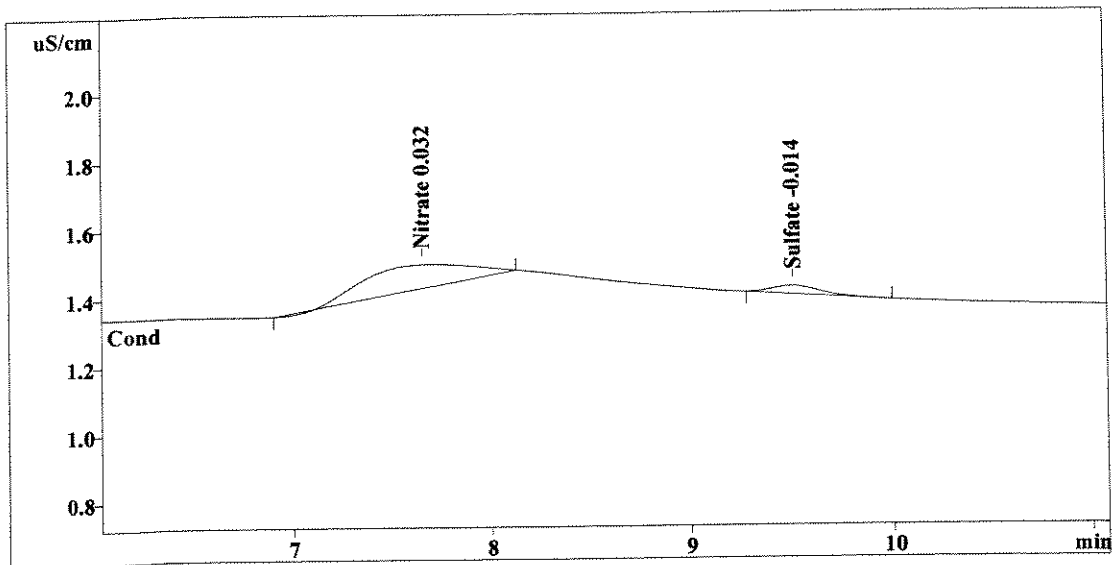
Method 300.0/9056

Report date: 7/8/2008 14:41:49
 Printed by: User
 Ident: CCB
 Analysis from: 6/27/2008 20:43:47
 File: s6272043.chw

Last save: 6/30/2008 13:29:45

Manual peaks!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37618
 SAMPLE:
 Vial number: 47
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.352	-0.047	Fluoride
2	3.99	0.066	0.024	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.64	2.651	0.032	Nitrate
6	9.52	0.383	-0.014	Sulfate
<hr/>			0.117	
6	12.00	3.453		

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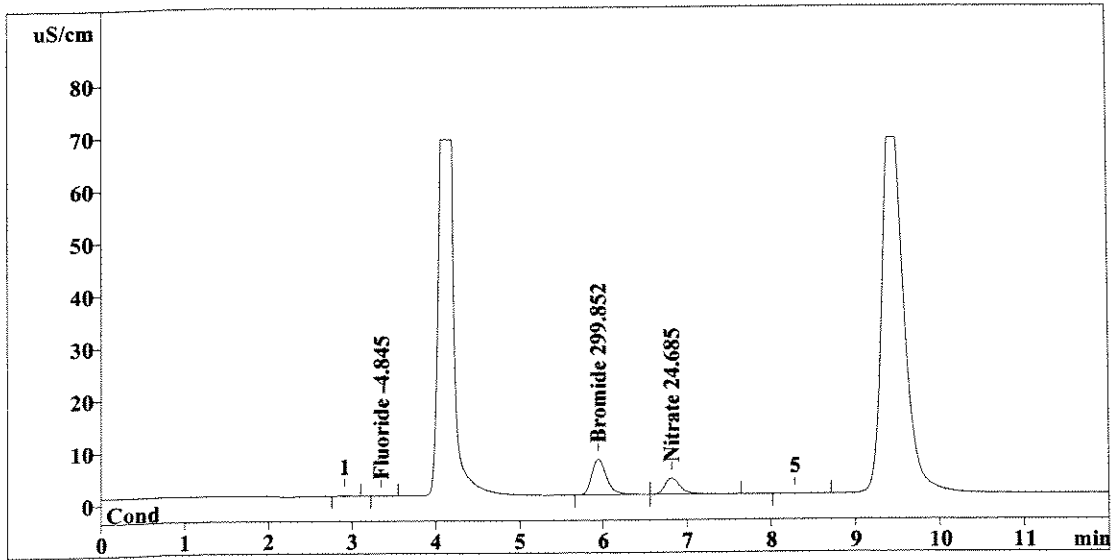
SD 7/8/08
reprocess not needed
baseline shift

Report date: 6/27/2008 21:09:51
 Printed by: User
 Ident: 1112872
 Analysis from: 6/27/2008 20:57:53
 File: S6272057.CHW

Last save: 6/27/2008 21:09:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37619
 SAMPLE: CBNNS
 Vial number: 48
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.190	-4.845	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.94	84.096	299.852	Bromide
5	6.81	38.329	24.685	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	122.614	329.383	

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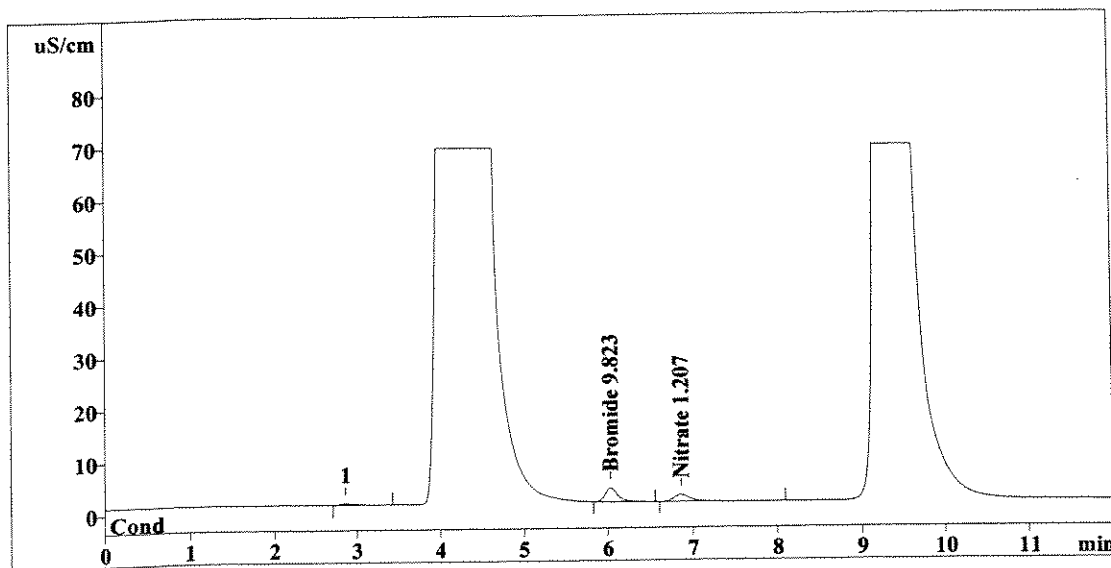
Method 300.0/9056

Report date: 6/27/2008 21:23:57
 Printed by: User
 Ident: 1112874
 Analysis from: 6/27/2008 21:11:59
 File: S6272111.CHW

Last save: 6/27/2008 21:23:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37620
 SAMPLE: CBNNS
 Vial number: 49
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.03	27.092	9.823	Bromide
5	6.86	17.351	1.207	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	44.443	11.030	

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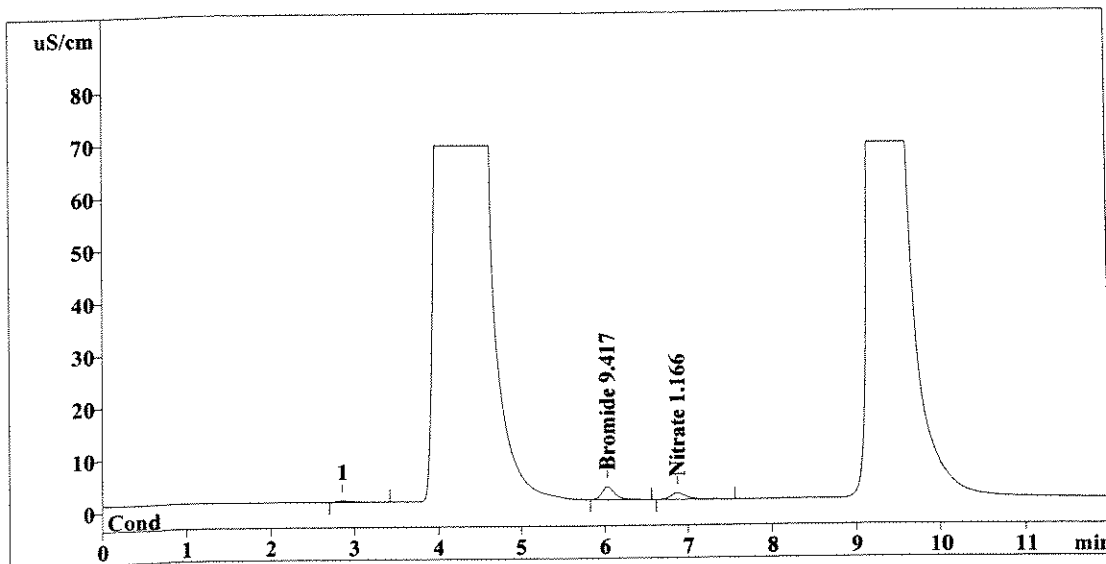
Method 300.0/9056

Report date: 6/27/2008 21:38:03
 Printed by: User
 Ident: 1112874 DUP
 Analysis from: 6/27/2008 21:26:05
 File: S6272126.CHW

Last save: 6/27/2008 21:38:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37621
 SAMPLE: CBNNS
 Vial number: 50
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	11400 0.000	Chloride
3	0.00	0.000	1/100 0.000	Nitrite
4	6.03	25.945	OK 9.417	Bromide
5	6.87	16.666	OK 1.166	Nitrate
6	0.00	0.000	1/400 0.000	Sulfate
6	12.00	42.612	10.583	

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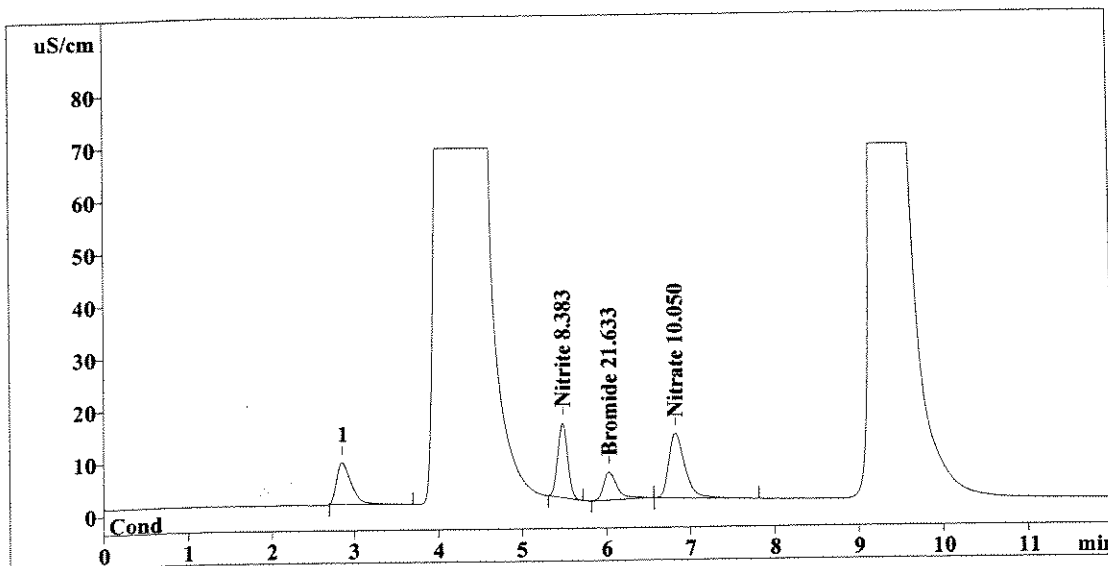
TC 6/30/08

Report date: 6/27/2008 21:52:11
 Printed by: User
 Ident: 1112874 SPK
 Analysis from: 6/27/2008 21:40:11
 File: S6272140.CHW

Last save: 6/27/2008 21:52:11

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37622
 SAMPLE: CBNNS
 Vial number: 51
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.48	114.628	8.383	Nitrite
4	6.03	60.481	21.633	Bromide
5	6.82	164.433	10.050	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	339.542	40.066	

Handwritten calculations:
 Bromide: $\frac{9.823}{10} \times 100 = 118.1\%$
 Nitrate: $\frac{1.207}{10} \times 100 = 88.4\%$

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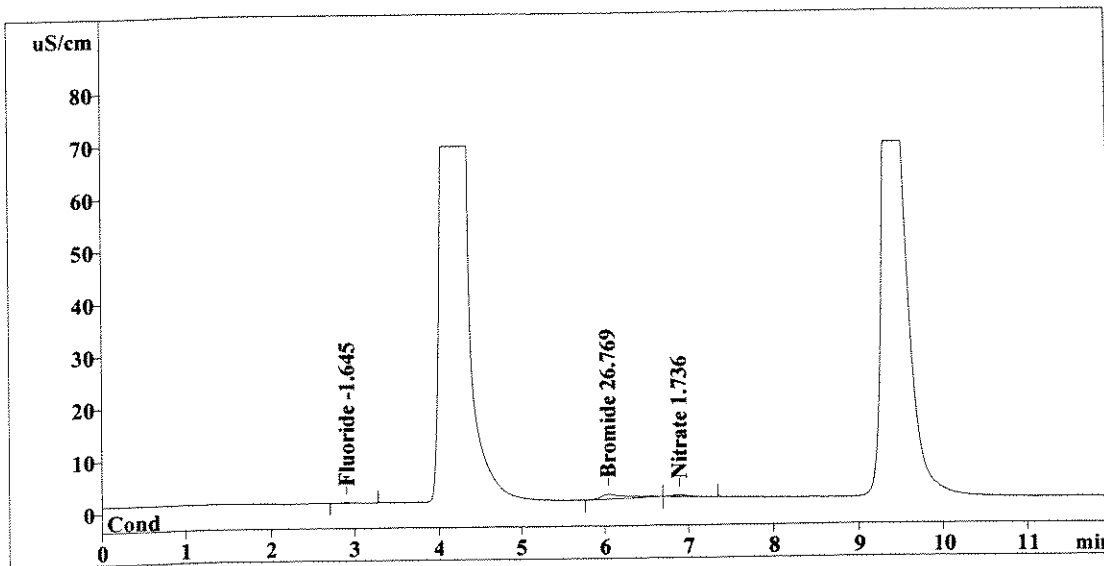
TC 6130108

Report date: 6/27/2008 22:06:24
 Printed by: User
 Ident: 1112874
 Analysis from: 6/27/2008 21:54:26
 File: S6272154.CHW

Last save: 6/27/2008 22:06:24

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37623
 SAMPLE: CBNNS
 Vial number: 52
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	0.989	-1.645	Fluoride
2	0.00	0.000	1/400 0.000	Chloride
3	0.00	0.000	1/100 0.000	Nitrite
4	6.04	18.242	use 1/10 26.769	Bromide
5	6.89	4.489	use 1/10 1.736	Nitrate
6	0.00	0.000	1/400 0.000	Sulfate
6	12.00	23.719	30.149	

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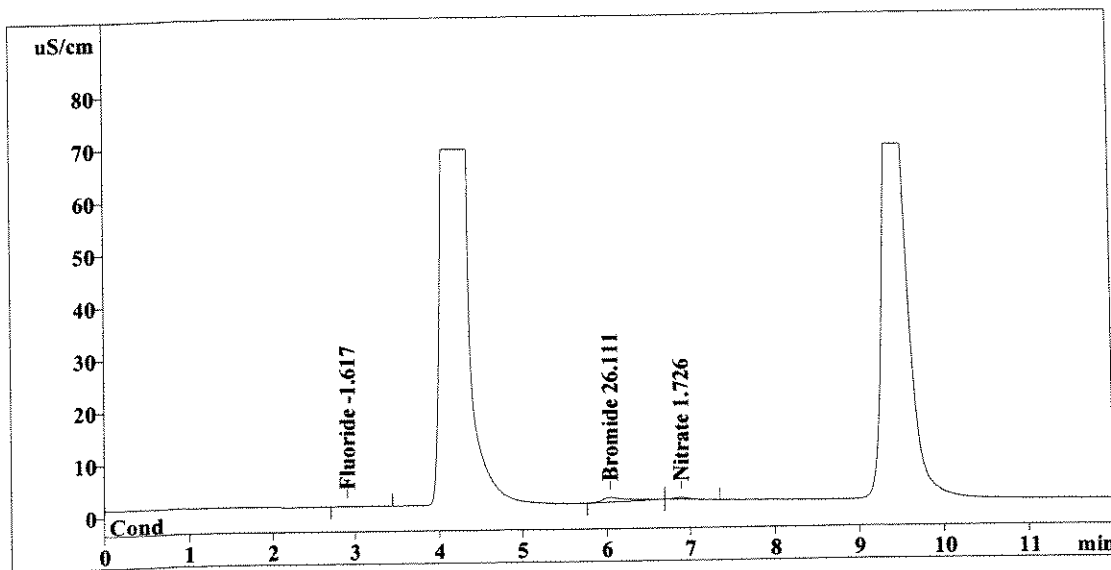
TC 6/30/08

Report date: 6/27/2008 22:20:32
 Printed by: User
 Ident: 1112874 DUP
 Analysis from: 6/27/2008 22:08:33
 File: S6272208.CHW

Last save: 6/27/2008 22:20:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37624
 SAMPLE: CBNNS
 Vial number: 53
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	1.065	-1.617	Fluoride
2	0.00	0.000	$\frac{1}{400}$ 0.000	Chloride
3	0.00	0.000	$\frac{1}{100}$ 0.000	Nitrite
4	6.04	17.777	$\frac{uS}{10}$ 26.111	Bromide
5	6.89	4.447	$\frac{uS}{10}$ 1.726	Nitrate
6	0.00	0.000	$\frac{1}{400}$ 0.000	Sulfate
<hr/>			29.453	
6	12.00	23.289		

TC 6/30/08

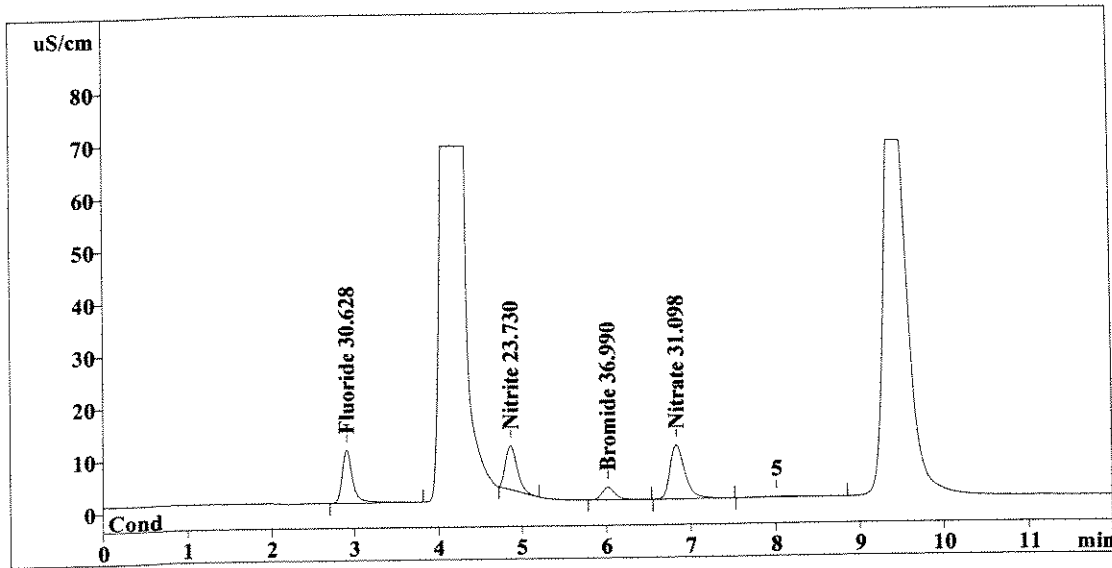
This report has been created by IC Net
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Report date: 6/27/2008 22:34:38
 Printed by: User
 Ident: 1112874 SPK
 Analysis from: 6/27/2008 22:22:40
 File: S6272222.CHW

Last save: 6/27/2008 22:34:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37625
 SAMPLE: CBNNS
 Vial number: 54
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	88.839	30.628	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.86	81.330	23.730	Nitrite
4	6.02	25.466	36.990	Bromide
5	6.82	126.580	31.098	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	322.215	122.446	

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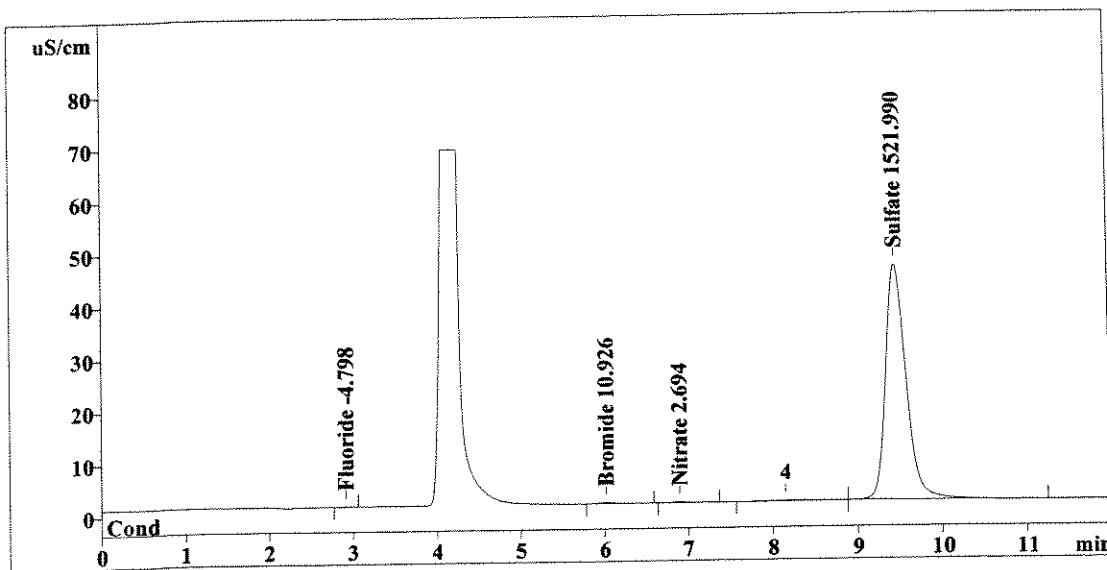
TC630108

Report date: 6/27/2008 22:48:44
 Printed by: User
 Ident: 1112874
 Analysis from: 6/27/2008 22:36:46
 File: S6272236.CHW

Last save: 6/27/2008 22:48:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37626
 SAMPLE: CBNNS
 Vial number: 55
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.241	-4.798	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.02	2.411	10.926	Bromide
5	6.90	1.752	2.694	Nitrate
6	9.46	755.967	1521.990	Sulfate
6	12.00	760.370	1540.408	

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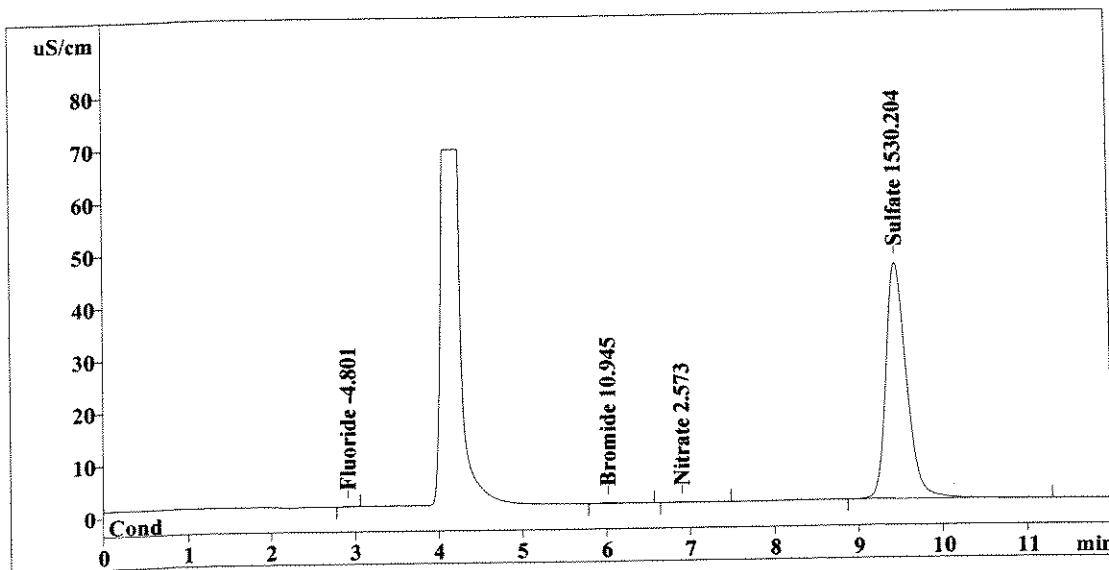
TC 6130108

Report date: 6/27/2008 23:02:50
 Printed by: User
 Ident: 1112874 DUP
 Analysis from: 6/27/2008 22:50:52
 File: S6272250.CHW

Last save: 6/27/2008 23:02:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37627
 SAMPLE: CBNNS
 Vial number: 56
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.239	-4.801	Fluoride
2	0.00	0.000	^{1/400} 0.000	Chloride
3	0.00	0.000	OK 0.000	Nitrite
4	6.02	2.416	^{use 1/10} 10.945	Bromide
5	6.90	1.550	^{use 1/10} 2.573	Nitrate
6	9.46	760.041	^{1/400} 1530.204	Sulfate
6	12.00	764.246	1548.523	

This report has been created by IC Net
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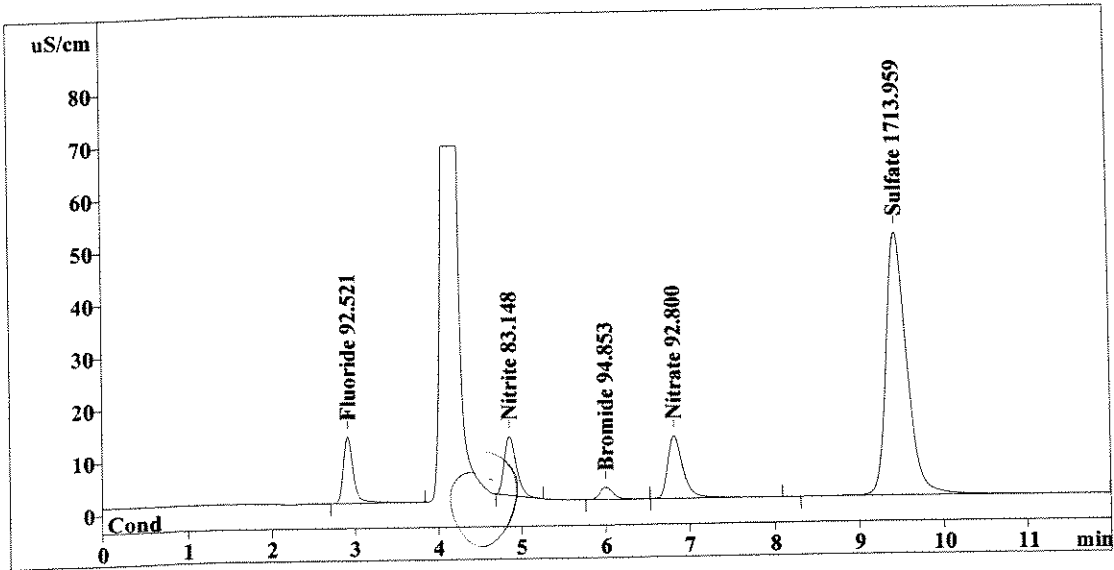
TC 6130108

Report date: 6/27/2008 23:16:56
 Printed by: User
 Ident: 1112874 SPK
 Analysis from: 6/27/2008 23:04:58
 File: S6272304.CHW

Last save: 6/27/2008 23:16:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37628
 SAMPLE: CBNNS
 Vial number: 57
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	106.207	92.521	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.86	113.698	83.148	Nitrite
4	6.00	26.139	94.853	Bromide
5	6.82	151.620	92.800	Nitrate
6	9.45	851.182	1713.959	Sulfate
6	12.00	1248.845	2077.281	

Handwritten notes: "1400" and "Reprocess" are written over the table data.

This report has been created by IC Net
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Handwritten signature: TC @/30/08

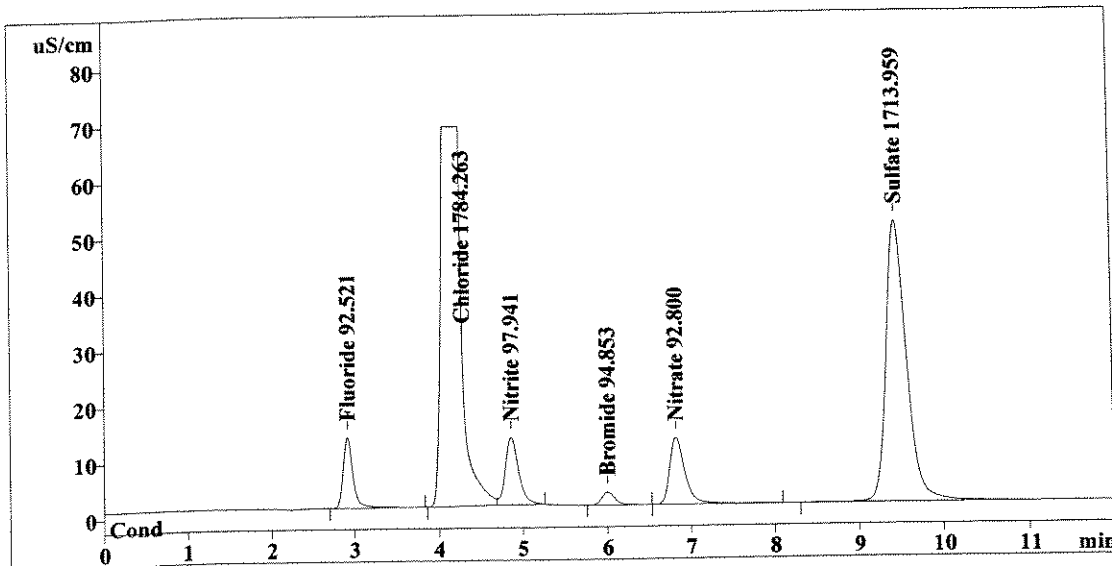
Ion Chromatography Analytical Report
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 Rochester, NY 14609

Method 300.0/9056

Report date: 6/30/2008 13:39:17
 Printed by: User
 Ident: 1112874 SPK
 Analysis from: 6/27/2008 23:04:58
 File: s6272304.chw
 Modified! Manual peaks!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37628
 SAMPLE: CBNNS
 Vial number: 57
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/27/2008 23:16:55

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	106.207	92.521	Fluoride
2	4.27	1165.557	1784.263	Chloride
3	4.86	133.798	97.941	Nitrite
4	6.00	26.139	94.853	Bromide
5	6.82	151.620	92.800	Nitrate
6	9.45	851.182	1713.959	Sulfate
<hr/>				
6	12.00	2434.502	3876.337	

Reprocessed
 1/400
 OK
 use 1/10
 use 1/10
 1/400
 $\frac{0.98}{100} \times 100 = 97.9\%$

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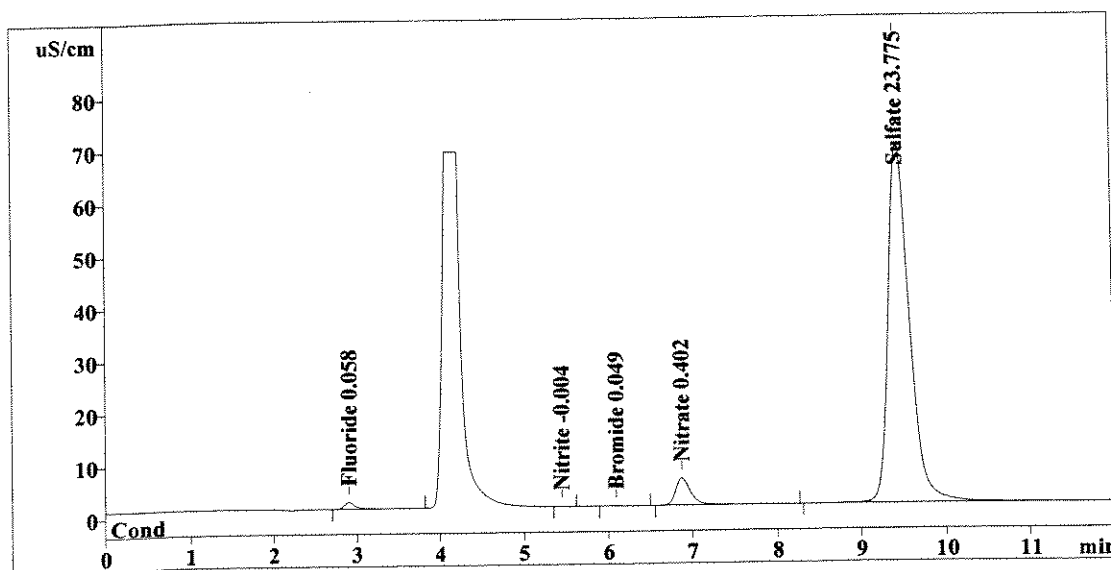
CVW
 6/30/08
SD
 7/8/08

Report date: 6/27/2008 23:31:01
 Printed by: User
 Ident: 1111897 R-44621
 Analysis from: 6/27/2008 23:19:03
 File: S6272319.CHW

Last save: 6/27/2008 23:31:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37629
 SAMPLE: FCS
 Vial number: 58
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	11.831	OK 0.058	Fluoride
2	0.00	0.000	1/10 0.000	Chloride
3	5.45	0.152	-0.004	Nitrite
4	6.09	0.704	0.049	Bromide
5	6.88	64.197	0.402	Nitrate
6	9.45	1180.291	1/10 23.775	Sulfate
6	12.00	1257.176	24.289	

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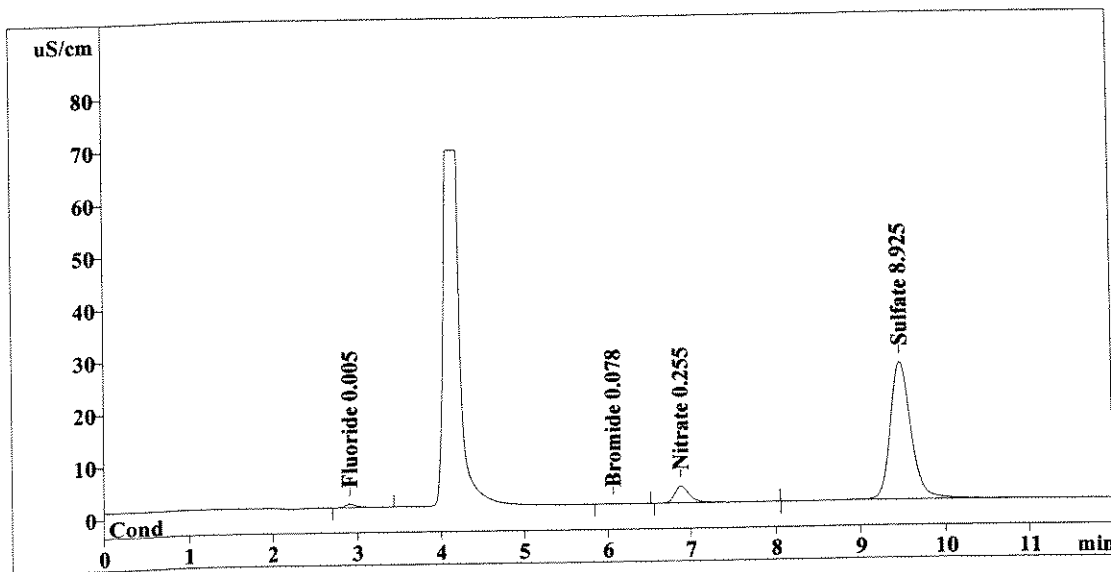
TC 6/30/08

Report date: 6/27/2008 23:45:07
 Printed by: User
 Ident: 1111898
 Analysis from: 6/27/2008 23:33:09
 File: S6272333.CHW

Last save: 6/27/2008 23:45:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37630
 SAMPLE: FCS
 Vial number: 59
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	5.979	OK 0.005	Fluoride
2	0.00	0.000	1/10 0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.07	1.530	0.078	Bromide
5	6.88	39.751	0.255	Nitrate
6	9.47	443.727	OK 8.925	Sulfate
6	12.00	490.987	9.263	

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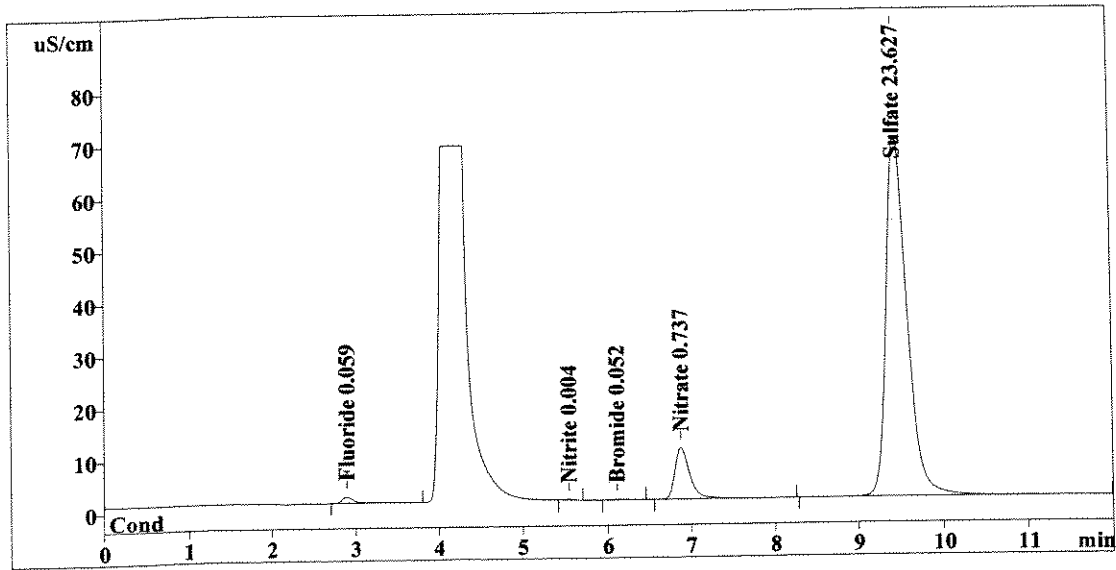
TC 6/30/08

Report date: 6/27/2008 23:59:13
 Printed by: User
 Ident: 1111899
 Analysis from: 6/27/2008 23:47:15
 File: S6272347.CHW

Last save: 6/27/2008 23:59:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37631
 SAMPLE: FCS
 Vial number: 60
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.89	11.844	OK 0.059	Fluoride
2	0.00	0.000	1/10 0.000	Chloride
3	5.54	1.330	0.004	Nitrite
4	6.11	0.805	0.052	Bromide
5	6.88	119.826	0.737	Nitrate
6	9.46	1172.959	1/10 23.627	Sulfate
6	12.00	1306.764	24.479	

This report has been created by IC Net
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TC 6/30/08

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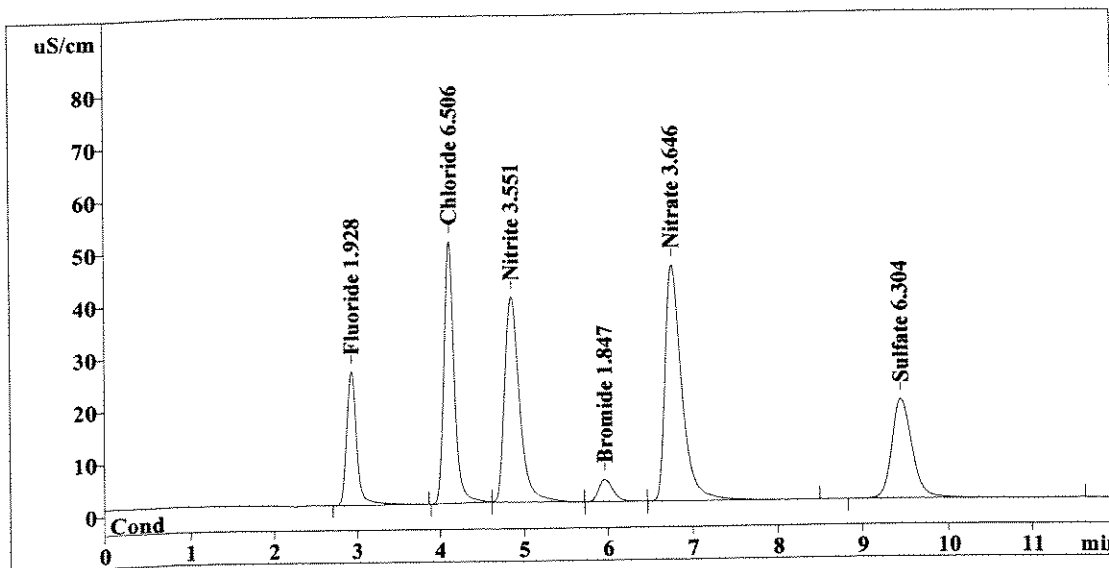
Method 300.0/9056

Report date: 6/28/2008 00:13:19
 Printed by: User
 Ident: CCV
 Analysis from: 6/28/2008 00:01:21
 File: S6280001.CHW

Last save: 6/28/2008 00:13:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37632
 SAMPLE:
 Vial number: 61
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	215.352	1.928	Fluoride
2	4.10	424.042	6.506	Chloride
3	4.84	483.175	3.551	Nitrite
4	5.96	51.545	1.847	Bromide
5	6.76	603.730	3.646	Nitrate
6	9.46	313.725	6.304	Sulfate
6	12.00	2091.569	23.782	

OK
↓

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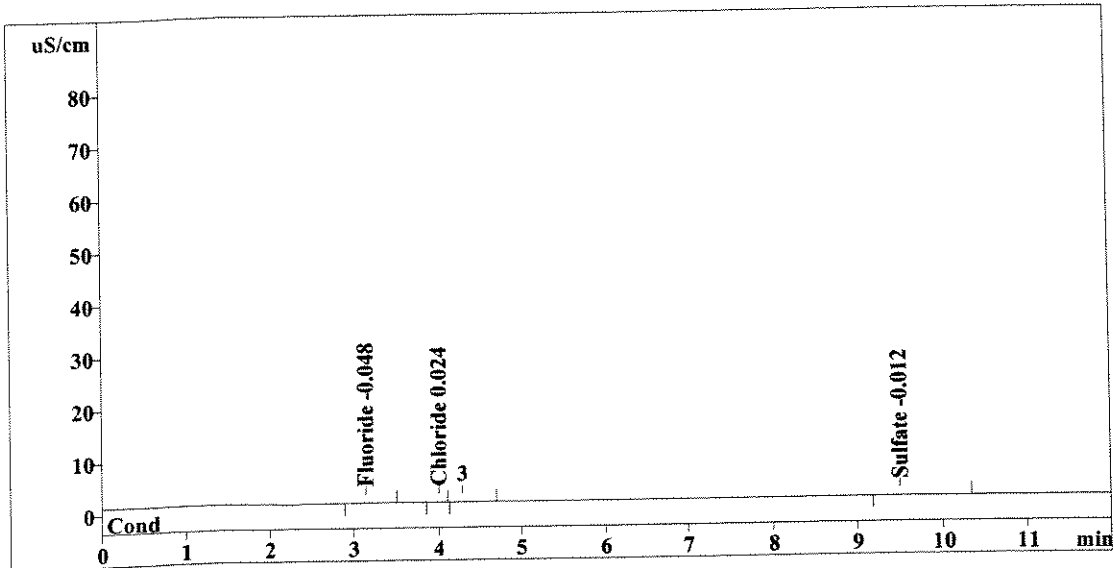
Method 300.0/9056

Report date: 6/28/2008 00:27:25
 Printed by: User
 Ident: CCB
 Analysis from: 6/28/2008 00:15:27
 File: S6280015.CHW

Last save: 6/28/2008 00:27:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37633
 SAMPLE:
 Vial number: 62
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.13	0.278	-0.048	Fluoride
2	4.00	0.071	0.024	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.51	0.469	-0.012	Sulfate
<hr/>				
6	12.00	0.818	0.084	

OK
↓

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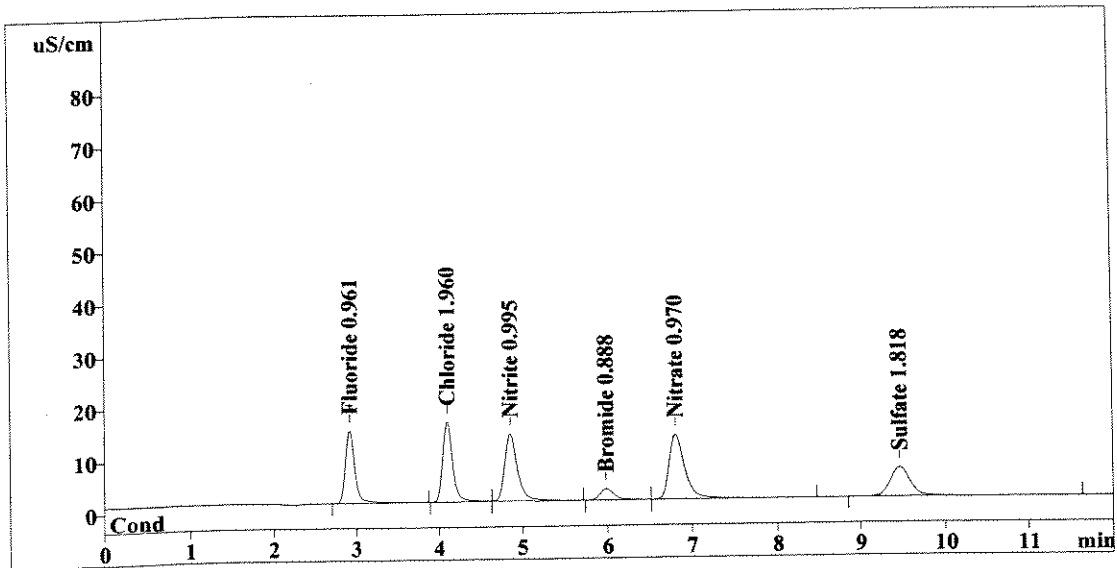
TC 6/28/08

Report date: 6/28/2008 00:41:31
 Printed by: User
 Ident: LCS
 Analysis from: 6/28/2008 00:29:33
 File: S6280029.CHW

Last save: 6/28/2008 00:41:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37634
 SAMPLE:
 Vial number: 63
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	110.079	0.961	Fluoride
2	4.10	126.700	1.960	Chloride
3	4.85	135.973	0.995	Nitrite
4	5.98	24.438	0.888	Bromide
5	6.81	158.576	0.970	Nitrate
6	9.46	91.234	1.818	Sulfate
6	12.00	647.000	7.593	

OK
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 out low
 OK
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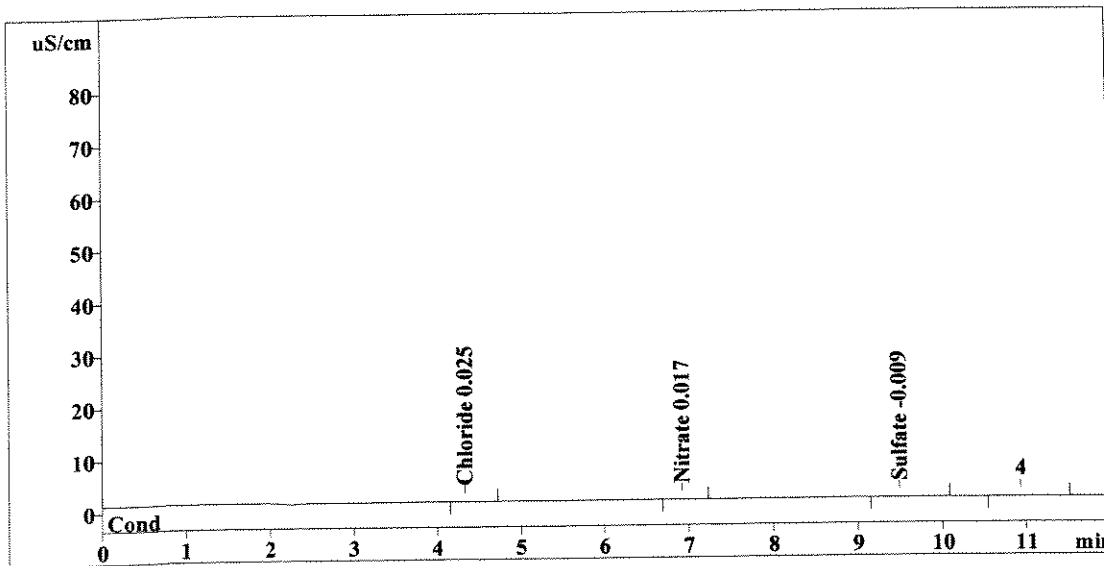
Method 300.0/9056

Report date: 6/28/2008 00:55:37
 Printed by: User
 Ident: 1111900
 Analysis from: 6/28/2008 00:43:39
 File: S6280043.CHW

Last save: 6/28/2008 00:55:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37635
 SAMPLE: FCS
 Vial number: 64
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	OK 0.000	Fluoride
2	4.32	0.095	OK 0.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.93	0.070	0.017	Nitrate
6	9.50	0.613	OK -0.009	Sulfate
6	12.00	0.777	0.051	

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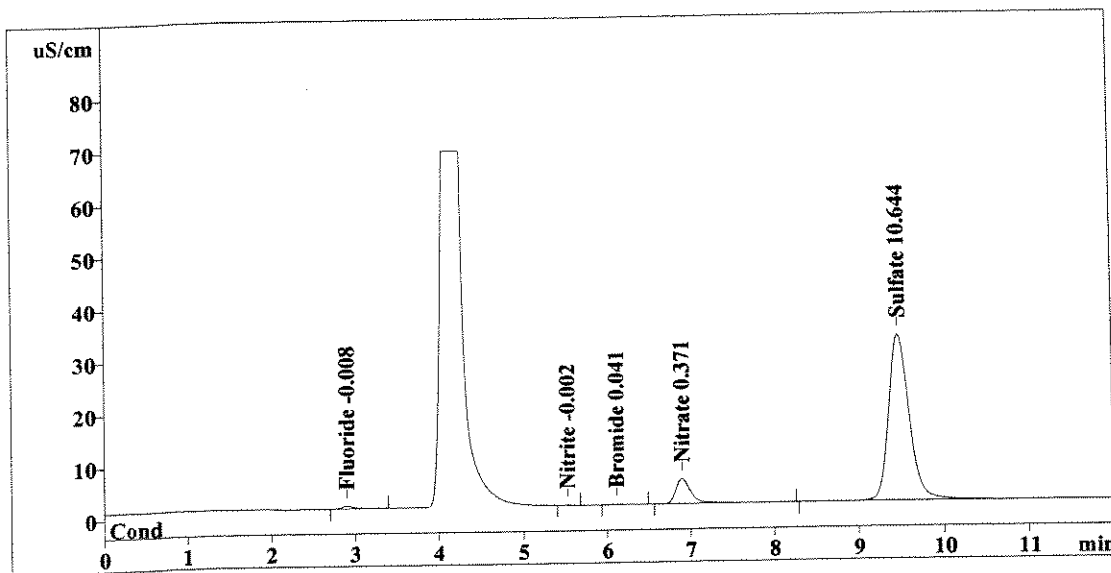
Method 300.0/9056

Report date: 6/28/2008 01:09:43
 Printed by: User
 Ident: 1111983
 Analysis from: 6/28/2008 00:57:45
 File: S6280057.CHW

Last save: 6/28/2008 01:09:42

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37636
 SAMPLE: FCS
 Vial number: 65
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.89	4.541	OL-0.008	Fluoride
2	0.00	0.000	1/10 0.000	Chloride
3	5.53	0.428	-0.002	Nitrite
4	6.12	0.479	0.041	Bromide
5	6.90	59.032	0.371	Nitrate
6	9.48	529.006	1/10 10.644	Sulfate
6	12.00	593.486	11.067	

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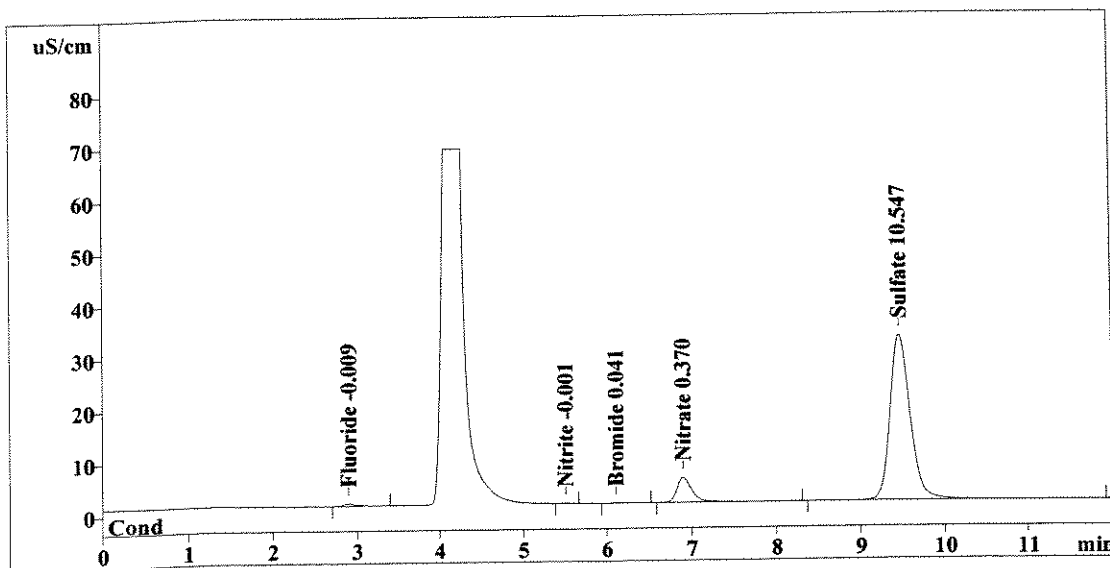
TC 6/30/08

Report date: 6/28/2008 01:23:49
 Printed by: User
 Ident: 1111983 DUP
 Analysis from: 6/28/2008 01:11:51
 File: S6280111.CHW

Last save: 6/28/2008 01:23:48

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37637
 SAMPLE: FCS
 Vial number: 66
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.89	4.472	OK -0.009	Fluoride
2	0.00	0.000	1/10 0.000	Chloride
3	5.50	0.575	-0.001	Nitrite
4	6.11	0.476	0.041	Bromide
5	6.90	58.799	0.370	Nitrate
6	9.47	524.208	1/10 10.547	Sulfate
6	12.00	588.530	10.968	

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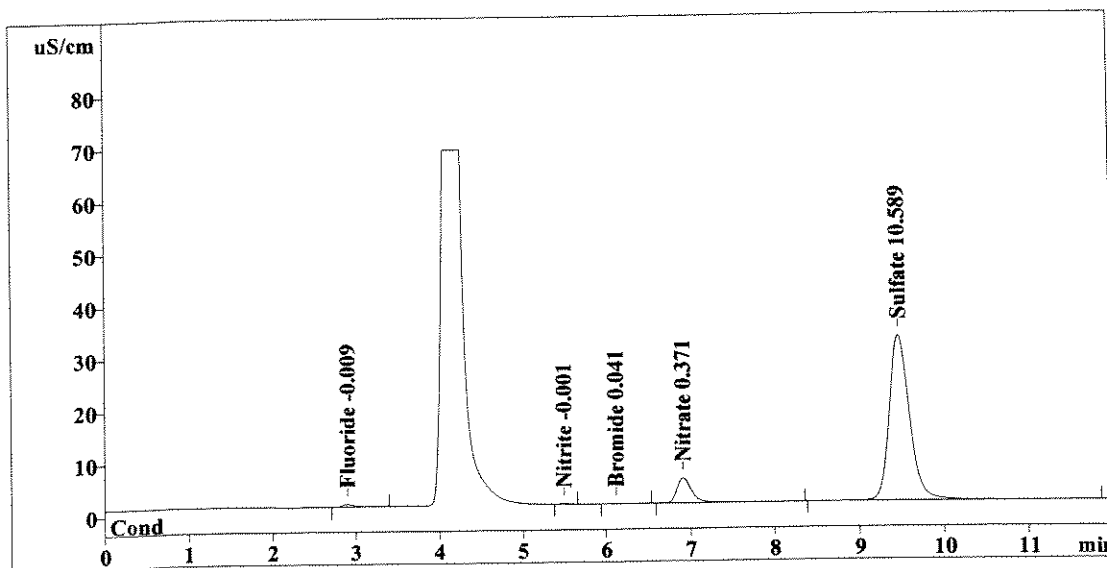
TC 6/30/08

Report date: 6/28/2008 01:37:55
 Printed by: User
 Ident: 1111983 SPK
 Analysis from: 6/28/2008 01:25:57
 File: S6280125.CHW

Last save: 6/28/2008 01:37:54

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37638
 SAMPLE: FCS
 Vial number: 67
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.89	4.476	OK -0.009	Fluoride
2	0.00	0.000	1/10 0.000	Chloride
3	5.49	0.644	-0.001	Nitrite
4	6.12	0.470	0.041	Bromide
5	6.91	59.002	0.371	Nitrate
6	9.47	526.254	1/10 10.589	Sulfate
6	12.00	590.848	11.010	

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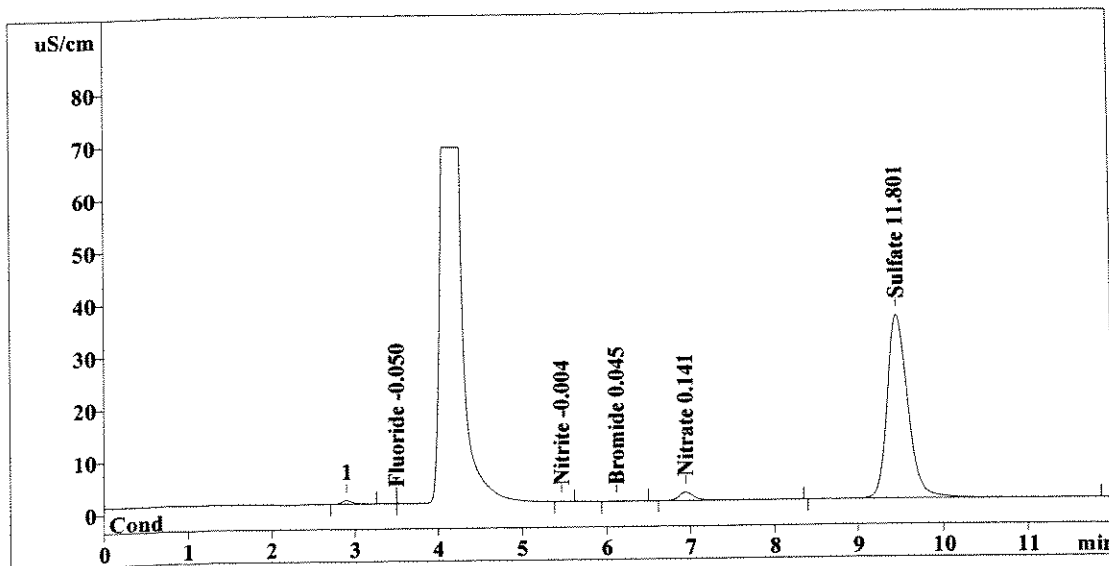
Method 300.0/9056

Report date: 6/28/2008 01:52:01
 Printed by: User
 Ident: 1111984
 Analysis from: 6/28/2008 01:40:03
 File: S6280140.CHW

Last save: 6/28/2008 01:52:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37639
 SAMPLE: FCS
 Vial number: 68
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.50	-0.000	OK -0.050	Fluoride
2	0.00	0.000	1/10 0.000	Chloride
3	5.47	0.193	-0.004	Nitrite
4	6.12	0.590	0.045	Bromide
5	6.94	20.712	0.141	Nitrate
6	9.47	586.374	1/10 11.801	Sulfate
6	12.00	607.870	12.041	

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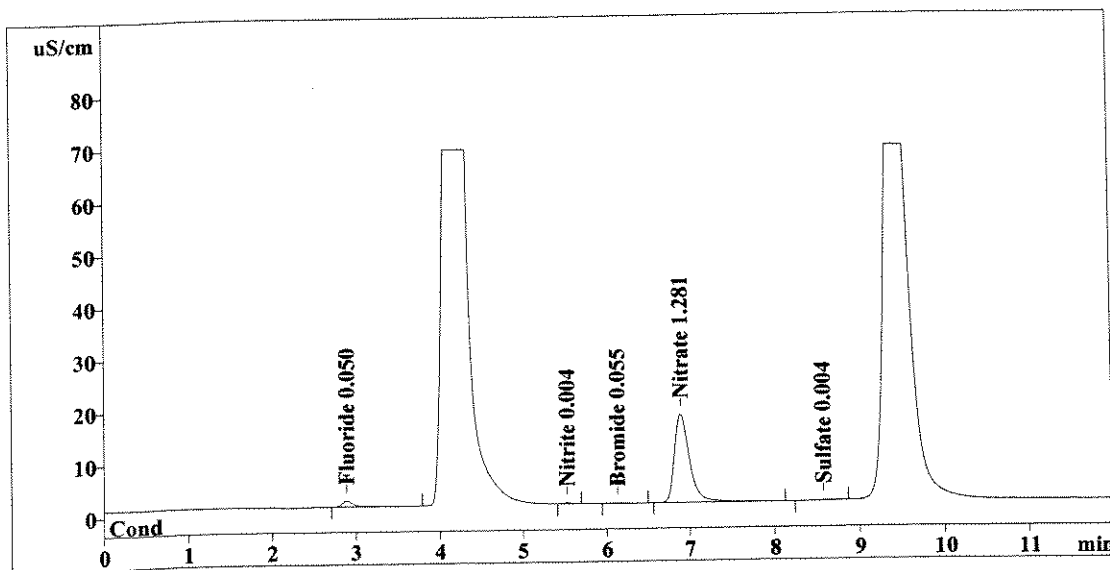
TC 6/30/08

Report date: 6/28/2008 02:06:07
 Printed by: User
 Ident: 1111985
 Analysis from: 6/28/2008 01:54:08
 File: S6280154.CHW

Last save: 6/28/2008 02:06:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37640
 SAMPLE: FCS
 Vial number: 69
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.89	10.917	OK 0.050	Fluoride
2	0.00	0.000	1/0 0.000	Chloride
3	5.53	1.208	0.004	Nitrite
4	6.13	0.878	0.055	Bromide
5	6.89	210.397	1.281	Nitrate
6	8.56	1.267	1/0 0.004	Sulfate
6	12.00	224.668	1.394	

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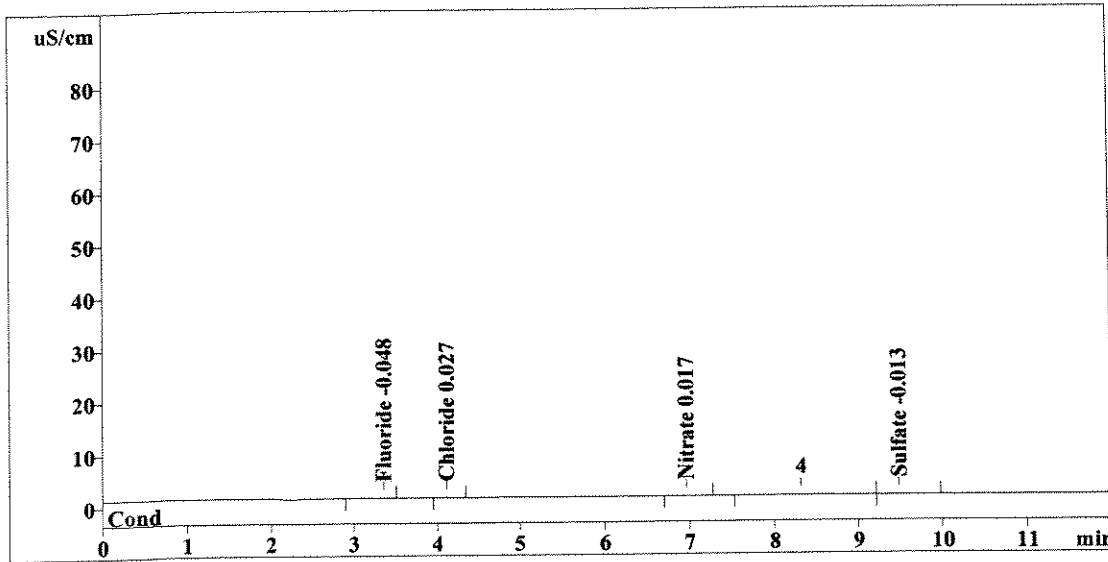
Method 300.0/9056

Report date: 6/28/2008 02:20:13
 Printed by: User
 Ident: 1111986
 Analysis from: 6/28/2008 02:08:14
 File: S6280208.CHW

Last save: 6/28/2008 02:20:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37641
 SAMPLE: FCS
 Vial number: 70
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.253	OK-0.048	Fluoride
2	4.11	0.243	OK 0.027	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.96	0.160	0.017	Nitrate
6	9.49	0.428	OK -0.013	Sulfate
6	12.00	1.084	0.105	

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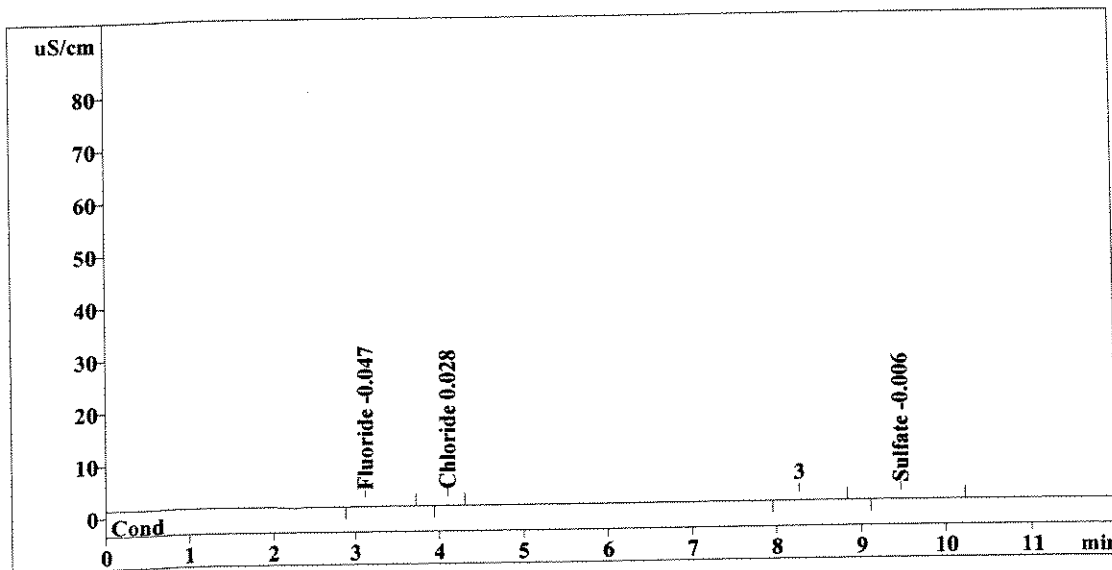
Method 300.0/9056

Report date: 6/28/2008 02:34:19
 Printed by: User
 Ident: 1111987
 Analysis from: 6/28/2008 02:22:20
 File: S6280222.CHW

Last save: 6/28/2008 02:34:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37642
 SAMPLE: FCS
 Vial number: 71
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.11	0.329	OK -0.047	Fluoride
2	4.10	0.282	OK 0.028	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.47	0.751	OK -0.006	Sulfate
6	12.00	1.362	0.081	

No 1/10 does not confirm - vial on
 autosampler still
 full
 TC 6/30/08
 TE 6/30/08

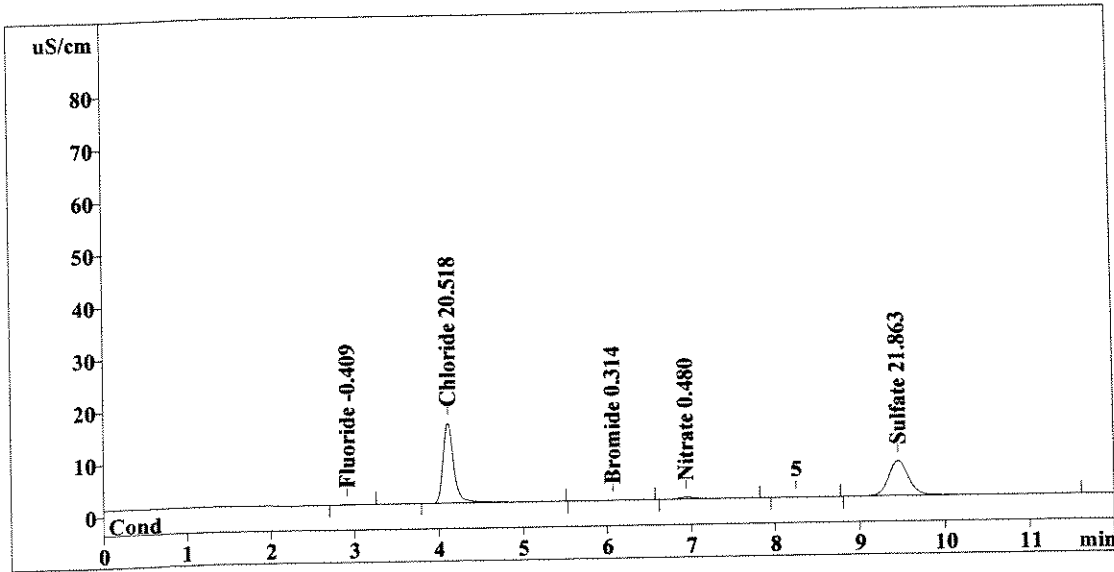
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Report date: 6/28/2008 02:48:24
 Printed by: User
 Ident: 1111897
 Analysis from: 6/28/2008 02:36:26
 File: S6280236.CHW

Last save: 6/28/2008 02:48:24

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37643
 SAMPLE: CS
 Vial number: 72
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	1.008	-0.409	Fluoride
2	4.10	132.686	OK 20.518	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.06	0.210	0.314	Bromide
5	6.94	5.258	0.480	Nitrate
6	9.45	109.508	OK 21.863	Sulfate
6	12.00	248.670	43.585	

TC 6/30/08

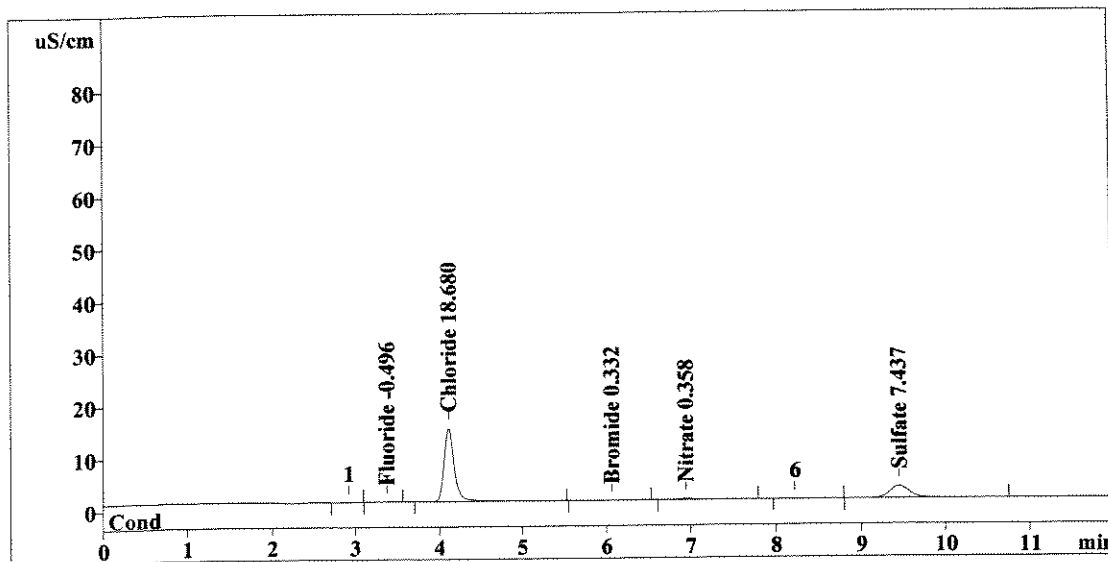
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Report date: 6/28/2008 03:02:30
 Printed by: User
 Ident: 1111898
 Analysis from: 6/28/2008 02:50:32
 File: S6280250.CHW

Last save: 6/28/2008 03:02:30

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37644
 SAMPLE: CS
 Vial number: 73
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.070	-0.496	Fluoride
2	4.11	120.664	OK 18.680	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.06	0.260	0.332	Bromide
5	6.94	3.221	0.358	Nitrate
6	9.45	37.959	USE STR 7.437	Sulfate
6	12.00	162.174	27.303	

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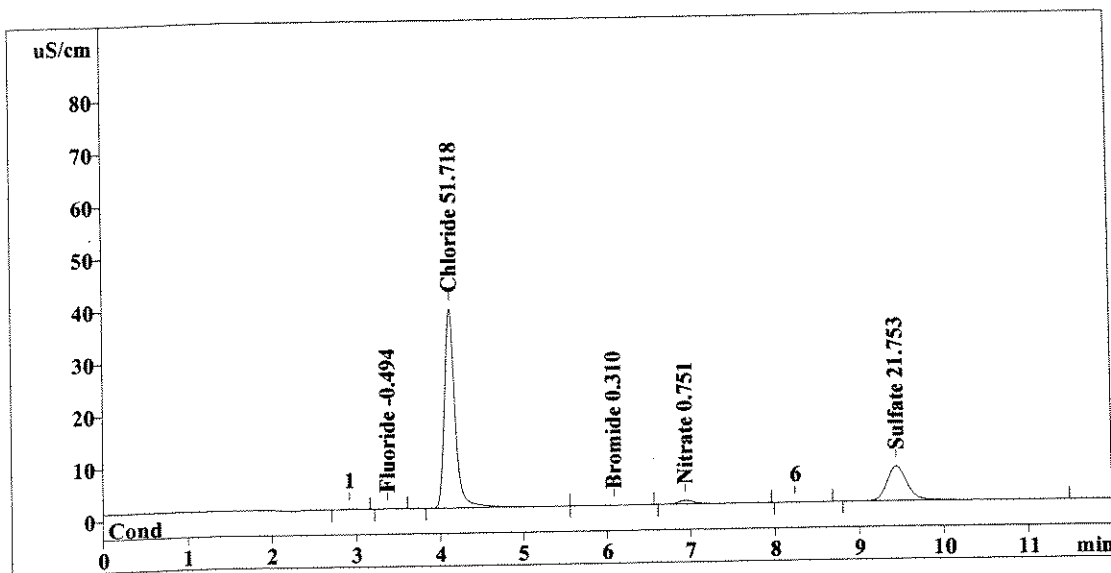
TC 6/30/08

Report date: 6/28/2008 03:16:36
 Printed by: User
 Ident: 1111899
 Analysis from: 6/28/2008 03:04:38
 File: S6280304.CHW

Last save: 6/28/2008 03:16:36

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37645
 SAMPLE: CS
 Vial number: 74
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.088	-0.494	Fluoride
2	4.11	336.767	OK 51.718	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.08	0.199	0.310	Bromide
5	6.94	9.761	0.751	Nitrate
6	9.45	108.965	OK 21.753	Sulfate
6	12.00	455.780	75.027	

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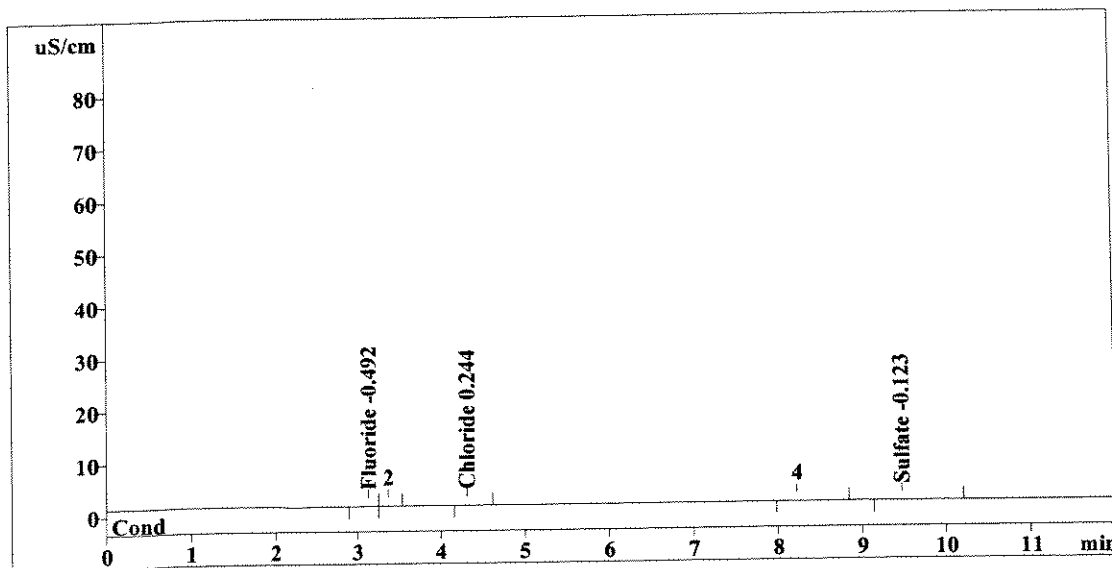
Method 300.0/9056

Report date: 6/28/2008 03:30:42
 Printed by: User
 Ident: 1111900
 Analysis from: 6/28/2008 03:18:44
 File: S6280318.CHW

Last save: 6/28/2008 03:30:41

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37646
 SAMPLE: CS
 Vial number: 75
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.13	0.114	-0.492	Fluoride
2	4.32	0.076	USE STR 0.244	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	0.461	USE STR -0.123	Sulfate
6	12.00	0.651	0.859	

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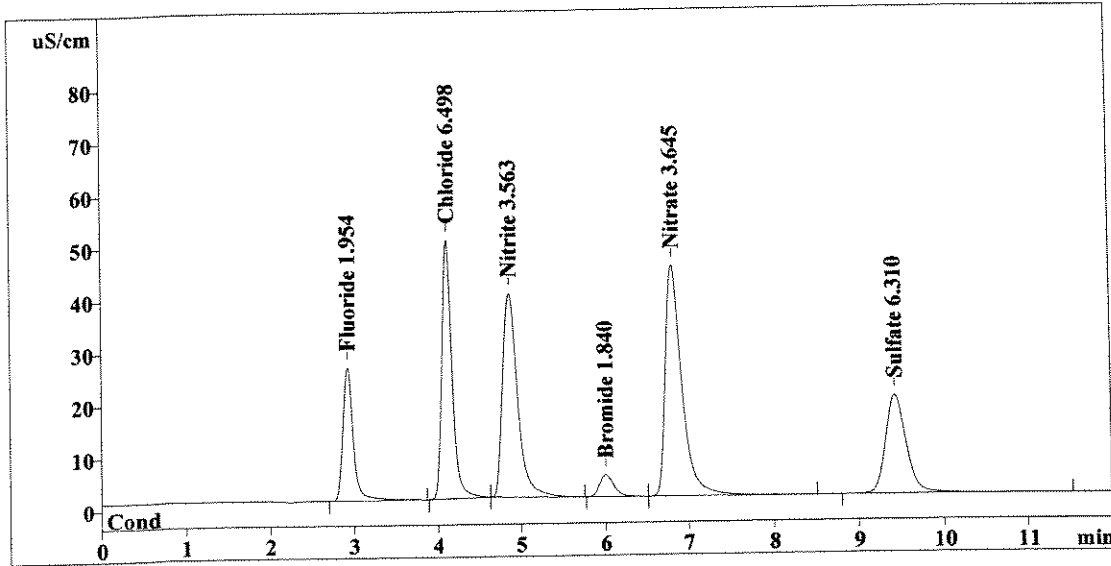
TC 6130108

Report date: 6/28/2008 03:44:48
 Printed by: User
 Ident: CCV
 Analysis from: 6/28/2008 03:32:50
 File: S6280332.CHW

Last save: 6/28/2008 03:44:47

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37647
 SAMPLE:
 Vial number: 76
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	218.268	1.954	Fluoride
2	4.11	423.492	6.498	Chloride
3	4.86	484.803	3.563	Nitrite
4	6.00	51.332	1.840	Bromide
5	6.81	603.502	3.645	Nitrate
6	9.43	314.065	6.310	Sulfate
6	12.00	2095.462	23.810	

OK
↓

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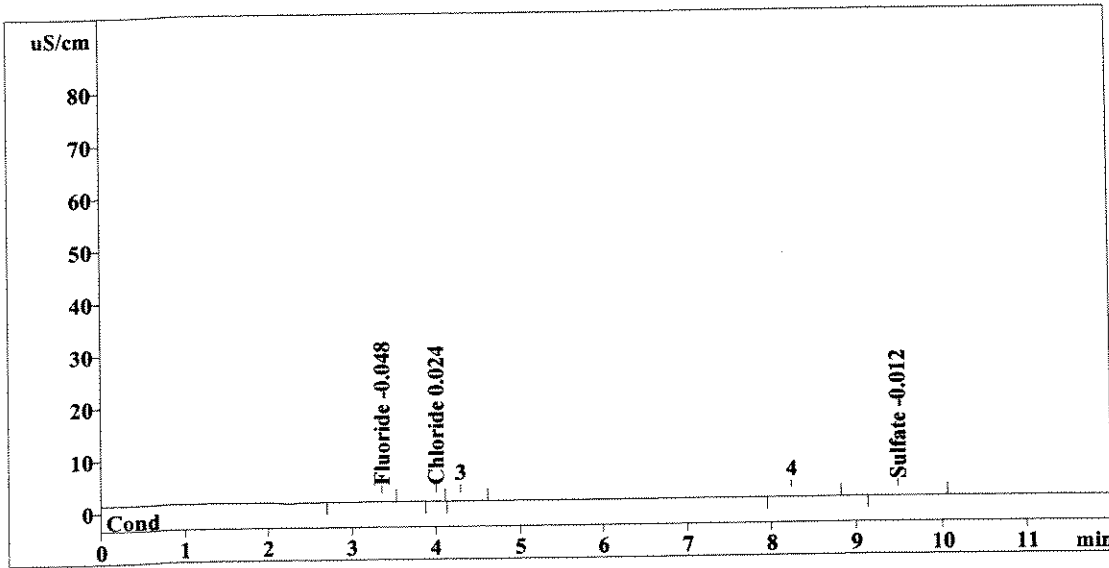
Method 300.0/9056

Report date: 6/28/2008 03:58:54
 Printed by: User
 Ident: CCB
 Analysis from: 6/28/2008 03:46:56
 File: S6280346.CHW

Last save: 6/28/2008 03:58:53

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37648
 SAMPLE:
 Vial number: 77
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.292	-0.048	Fluoride
2	4.01	0.068	0.024	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	0.485	-0.012	Sulfate
6	12.00	0.845	0.084	

OK
↓

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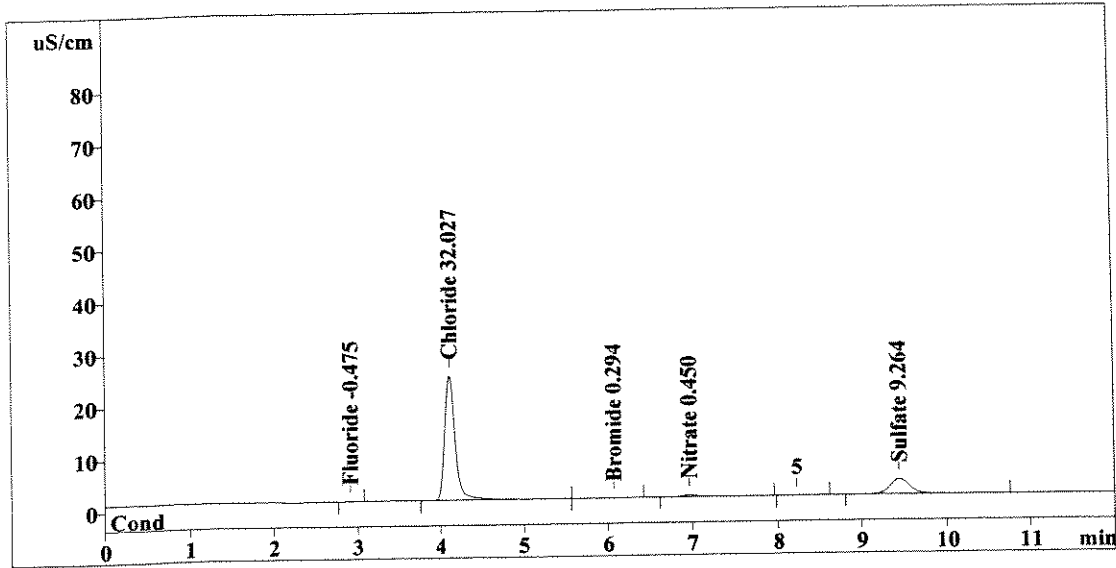
Method 300.0/9056

Report date: 6/28/2008 04:13:00
 Printed by: User
 Ident: 1111983
 Analysis from: 6/28/2008 04:01:02
 File: S6280401.CHW

Last save: 6/28/2008 04:12:59

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37649
 SAMPLE: CS
 Vial number: 78
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.295	-0.475	Fluoride
2	4.11	207.968	OK 32.027	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.08	0.153	0.294	Bromide
5	6.96	4.761	0.450	Nitrate
6	9.45	47.020	OK 9.264	Sulfate
6	12.00	260.196	42.511	

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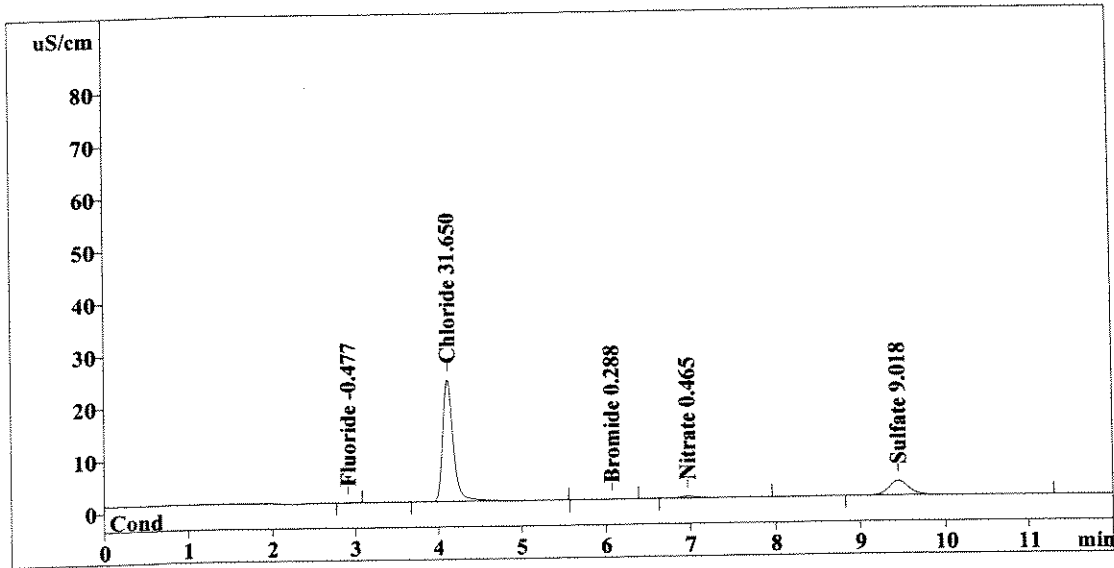
Method 300.0/9056

Report date: 6/28/2008 04:27:06
 Printed by: User
 Ident: 1111983 DUP
 Analysis from: 6/28/2008 04:15:08
 File: S6280415.CHW

Last save: 6/28/2008 04:27:05

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37650
 SAMPLE: CS
 Vial number: 79
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.270	-0.477	Fluoride
2	4.11	205.499	OK 31.650	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.08	0.135	0.288	Bromide
5	6.97	5.007	0.465	Nitrate
6	9.45	45.797	OK 9.018	Sulfate
<hr/>				
6	12.00	256.708	41.898	

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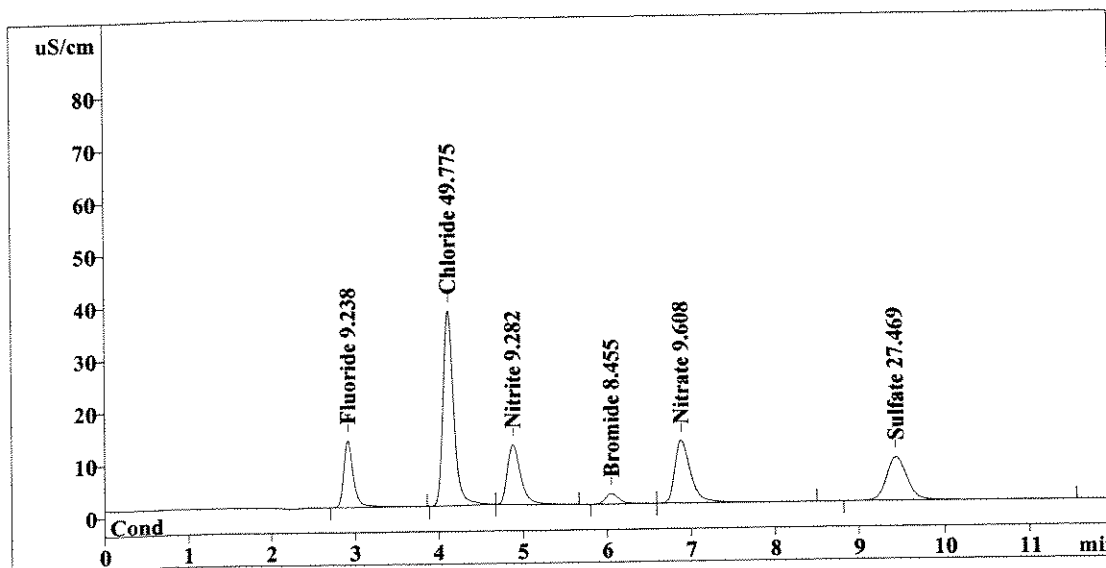
Method 300.0/9056

Report date: 6/28/2008 04:41:12
 Printed by: User
 Ident: 1111983 SPK
 Analysis from: 6/28/2008 04:29:14
 File: S6280429.CHW

Last save: 6/28/2008 04:41:11

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37651
 SAMPLE: CS
 Vial number: 80
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	106.054	9.238	Fluoride
2	4.11	324.052	OK 49.775	Chloride - $\frac{32.027}{20} \times 100 = 88.71$
3	4.88	126.842	9.282	Nitrite
4	6.05	23.225	8.455	Bromide
5	6.88	157.080	9.608	Nitrate
6	9.44	137.312	OK 27.469	Sulfate - $\frac{9.264}{20} \times 100 = 91.01$
6	12.00	874.564	113.826	

This report has been created by IC Net
 METROHM LTD

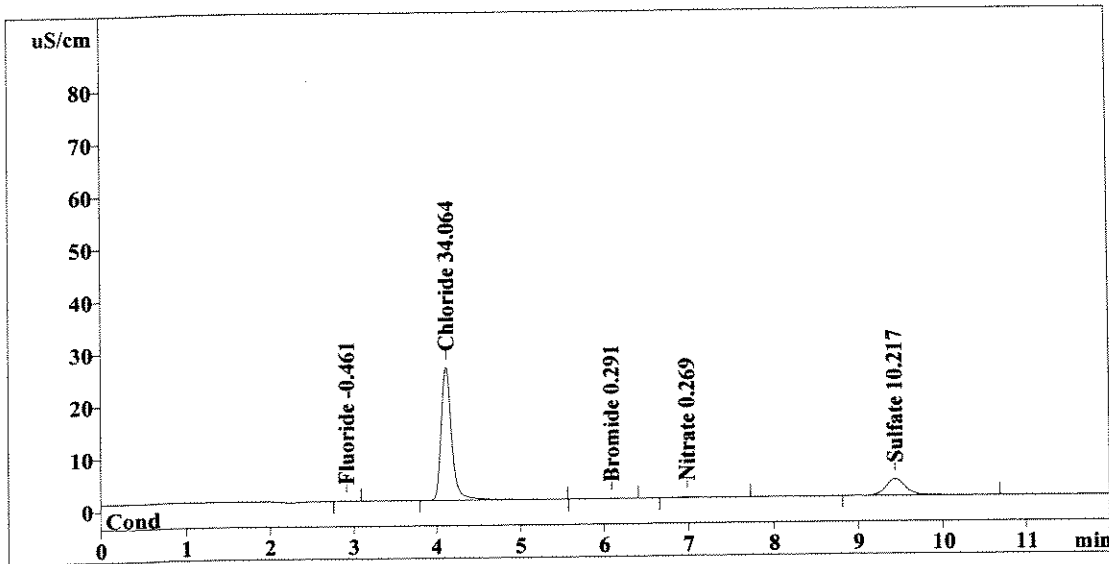
TC 6/30/08

Report date: 6/28/2008 04:55:18
 Printed by: User
 Ident: 1111984
 Analysis from: 6/28/2008 04:43:20
 File: S6280443.CHW

Last save: 6/28/2008 04:55:17

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37652
 SAMPLE: CS
 Vial number: 81
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.445	-0.461	Fluoride
2	4.11	221.287	OK 34.064	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.09	0.144	0.291	Bromide
5	6.99	1.738	0.269	Nitrate
6	9.44	51.748	OK 10.217	Sulfate
6	12.00	275.362	45.302	

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TC 6/30/08

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

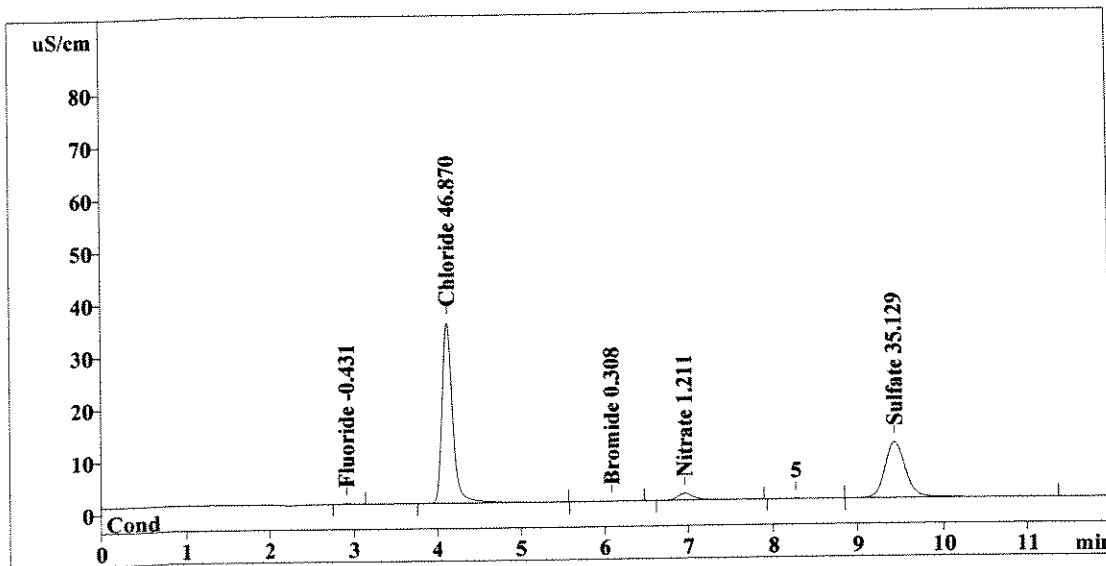
Method 300.0/9056

Report date: 6/28/2008 05:09:24
 Printed by: User
 Ident: 1111985
 Analysis from: 6/28/2008 04:57:26
 File: S6280457.CHW

Last save: 6/28/2008 05:09:23

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37653
 SAMPLE: CS
 Vial number: 82
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.774	-0.431	Fluoride
2	4.11	305.051	OK 46.870	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.10	0.194	0.308	Bromide
5	6.96	17.407	1.211	Nitrate
6	9.44	175.306	OK 35.129	Sulfate
6	12.00	498.731	83.948	

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 Columbia Analytical Services
 Rochester, NY 14609

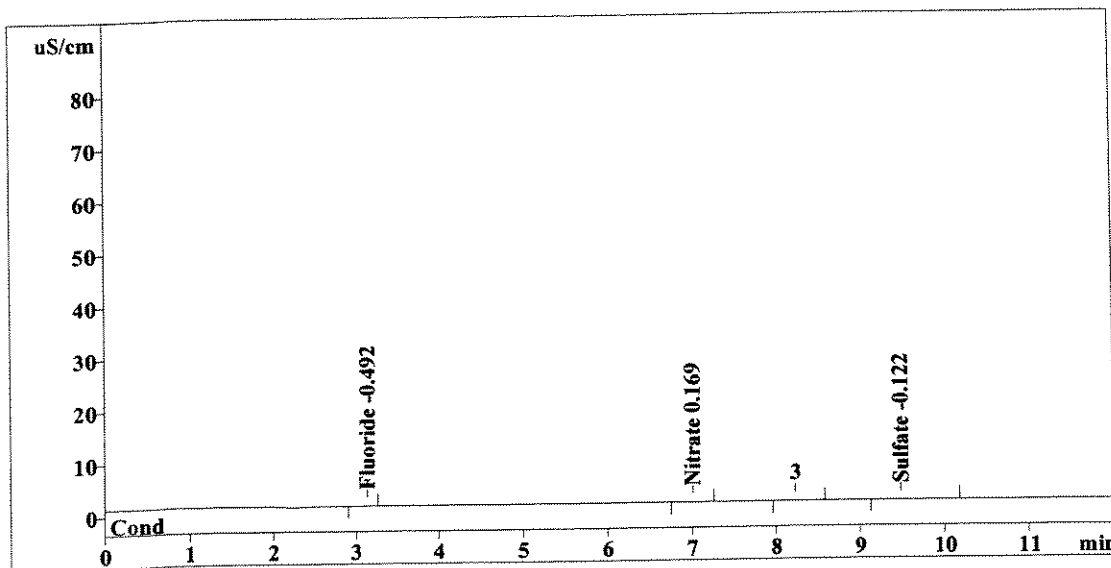
Method 300.0/9056

Report date: 6/28/2008 05:23:30
 Printed by: User
 Ident: 1111986
 Analysis from: 6/28/2008 05:11:32
 File: S6280511.CHW

Last save: 6/28/2008 05:23:29

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37654
 SAMPLE: CS
 Vial number: 83
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.13	0.114	-0.492	Fluoride
2	0.00	0.000	USE STR 0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.01	0.082	0.169	Nitrate
6	9.47	0.466	USE STR -0.122	Sulfate
6	12.00	0.661	0.782	

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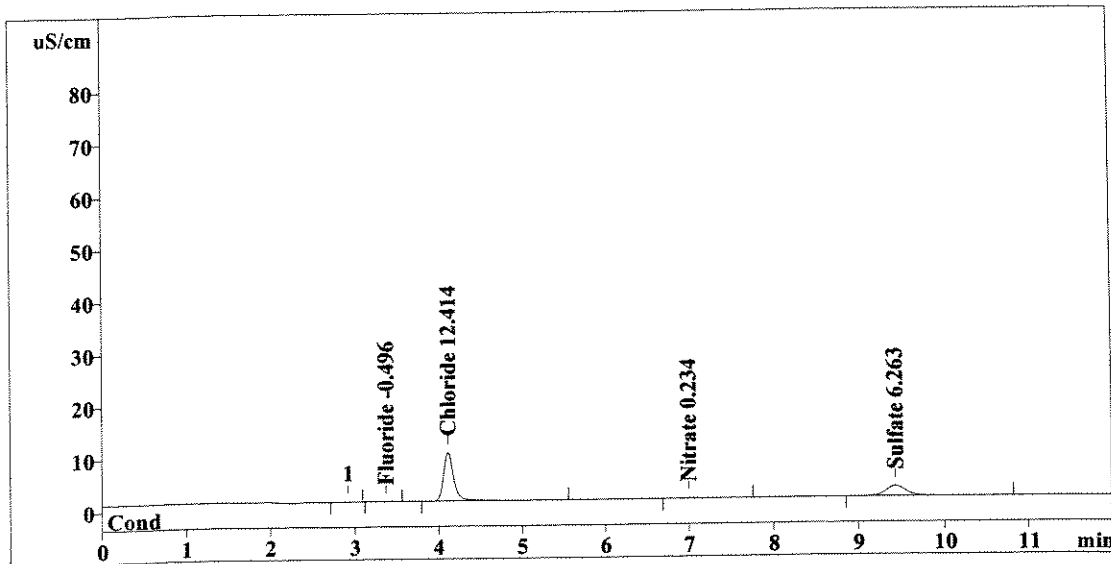
TC 6/30/08

Report date: 6/28/2008 05:37:36
 Printed by: User
 Ident: 1111987
 Analysis from: 6/28/2008 05:25:37
 File: S6280525.CHW

Last save: 6/28/2008 05:37:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37655
 SAMPLE: CS
 Vial number: 84
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.064	RPT SM -0.496	Fluoride
2	4.11	79.677	OK 12.414	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.99	1.164	0.234	Nitrate
6	9.44	32.133	OK 6.263	Sulfate
6	12.00	113.038	19.407	

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 Rochester, NY 14609

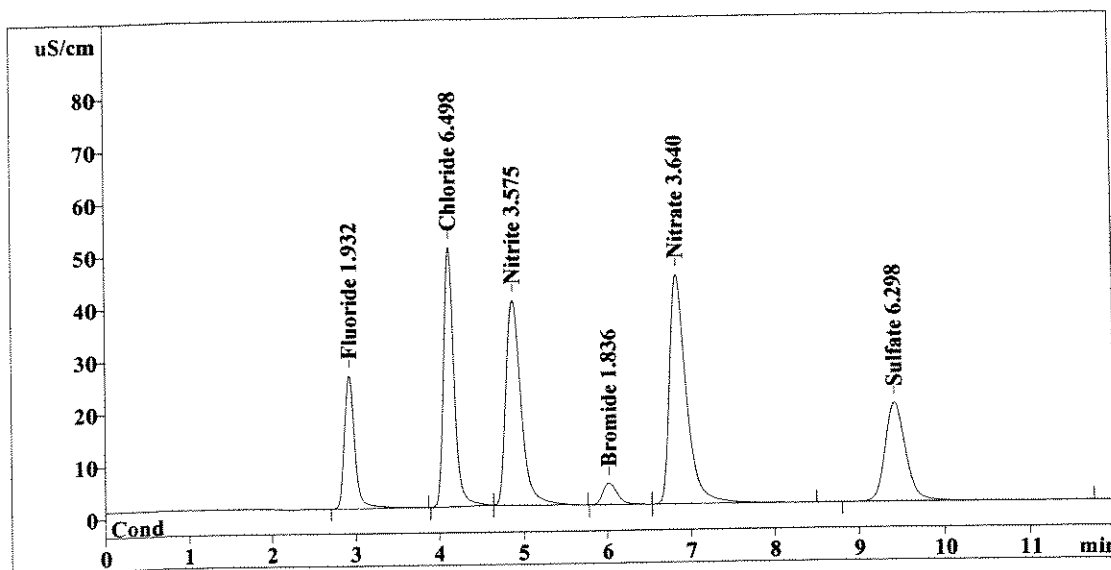
Method 300.0/9056

Report date: 6/28/2008 05:51:42
 Printed by: User
 Ident: CCV
 Analysis from: 6/28/2008 05:39:43
 File: S6280539.CHW

Last save: 6/28/2008 05:51:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37656
 SAMPLE:
 Vial number: 85
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	215.885	1.932	Fluoride
2	4.11	423.515	6.498	Chloride
3	4.87	486.505	3.575	Nitrite
4	6.02	51.225	1.836	Bromide
5	6.83	602.729	3.640	Nitrate
6	9.42	313.452	6.298	Sulfate
6	12.00	2093.310	23.780	

OK
↓

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TC 6/28/08

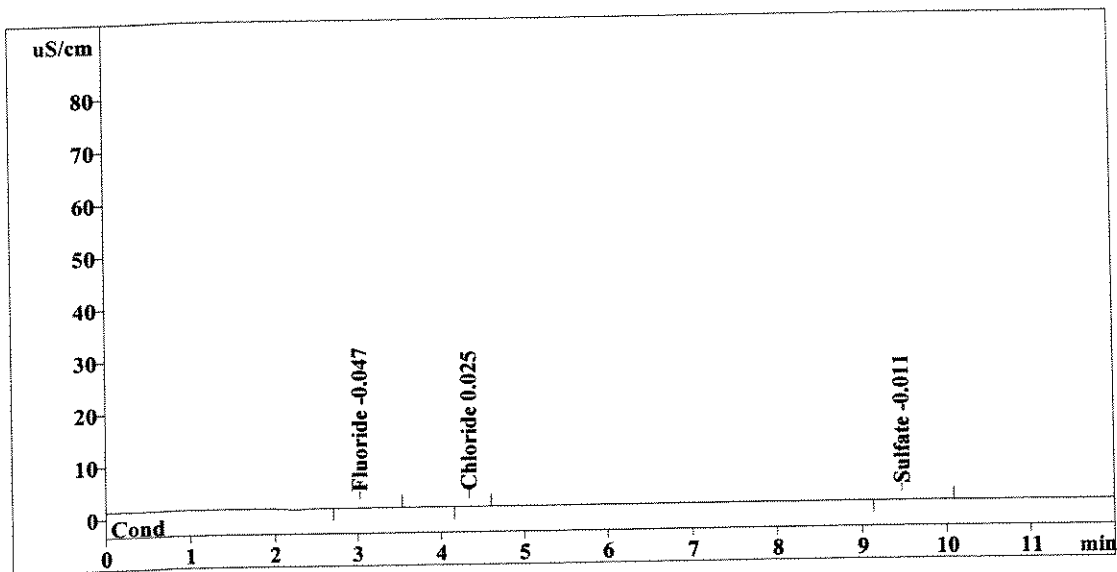
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/28/2008 06:05:48
 Printed by: User
 Ident: CCB
 Analysis from: 6/28/2008 05:53:49
 File: S6280553.CHW

Method 300.0/9056

Last save: 6/28/2008 06:05:47

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37657
 SAMPLE:
 Vial number: 86
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/27/2008 07:56:30



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.02	0.322	-0.047	Fluoride
2	4.32	0.090	0.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.47	0.525	-0.011	Sulfate
6	12.00	0.936	0.083	

OK ↓

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TC 6/28/08

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mL sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC7205CA	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720593A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720593B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC720593C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC720593D
NO3		50			1.0			E		
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Run #: 163265
 Analyte: SULFATE 9056 SULFATE BY ION CHROMATOGRAPHY
 Printed: 07/01/08 15:31

44650

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK5		1114056	WATER	6.34	1.0	0.200	99.0		6/28/08		
BLK4		1114057	WATER	-0.0100	1.0	0.200					
SPKB		1114058	WATER	1.88	1.0	0.200	94.0				
ESMP	R2844650	1113427	WATER	497	100.0	0.200					ASPB
LDUP		1114059	WATER	677	100.0	0.200		30.67			
SPK1		1114060	WATER	1480	100.0	0.200	492.9				
ESMP	R2844650	1113428	WATER	994	100.0	0.200					ASPB

Records printed: 7

Reviewed & Approved
 By: Sdeto
 Date: 7/8/08

Run #: 163263

Analyte: NITRATE 9056

NITRATE NITROGEN (NO3) AS N BY ION CHROM

Printed: 07/01/08 15:48

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK5	-	1114044	WATER	3.64	1.0	0.0500	101.1		6/28/08		
BLK4	-	1114045	WATER	0.0500	1.0	0.0500					
SPKB	-	1114046	WATER	0.969	1.0	0.0500	96.9				
ESMP	R2844650	1113426	WATER	9.32	10.0	0.0500					ASPB
ESMP	R2844650	1113427	WATER	0.368	10.0	0.0500					ASPB
LDUP	-	1114047	WATER	0.401	10.0	0.0500		8.58			
SPK1	-	1114048	WATER	13.5	10.0	0.0500	131.5				
ESMP	R2844650	1113428	WATER	6.97	10.0	0.0500					ASPB
ESMP	R2844650	1113429	WATER	41.3	10.0	0.0500					ASPB
ESMP	R2844650	1113430	WATER	9.90	10.0	0.0500					ASPB

Records printed: 10

ANALYTE:G:\STARLIMS\ASBAR.RP1

Page 1

02216

Run #: 163264

Analyte: NITRITE 9056

NITRITE NITROGEN (NO2) AS N BY ION CHROM

Printed: 07/01/08 15:38

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED		DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT						ANALYZED		
CHK5		1114050	WATER	5.50 3.54	8/18/08	1.0	0.05	180.6		6/28/08		
BLK4		1114051	WATER	0.0500	U	1.0	0.05					
SPKB		1114052	WATER	0.994		1.0	0.05	99.4				
ESMP	R2844650	1113426	WATER	2.00	U	40.0	0.05					ASPB
ESMP	R2844650	1113427	WATER	5.00	U	100.0	0.05					ASPB
LDUP		1114053	WATER	5.00	U	100.0	0.05					
SPK1		1114054	WATER	86.2		100.0	0.05	86.2				ASPB
ESMP	R2844650	1113428	WATER	2.00	U	40.0	0.05					ASPB
ESMP	R2844650	1113429	WATER	2.00	U	40.0	0.05					ASPB
ESMP	R2844650	1113430	WATER	2.00	U	40.0	0.05					ASPB

Records printed: 10

Run #: 163262

Analyte: CHLORIDE 9056

CHLORIDE BY ION CHROMATOGRAPHY

Printed: 07/01/08 15:50

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK5	-	1114040	WATER	6.50	1.0	0.200	100.0		6/28/08		
BLK4	-	1114041	WATER	0.0270	1.0	0.200					
SPKB	-	1114042	WATER	1.96	1.0	0.200	98.1				
ESMP	R2844650	1113428	WATER	580	100.0	0.200					ASPB
ESMP	R2844650	1113430	WATER	525	100.0	0.200					ASPB

Records printed: 5

ANALYTE:G:\STARLIMS\ASBAR.RP1

Page 1

02210

06-28-08

Data Manually Entered

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample info 1	Sample info 2
Columbia-no dilution	CCV	1	1.0	1.0	1.0	100.0	0	1	1	ANALYST: TC	
Columbia-no dilution	CCB	2	1.0	1.0	1.0	100.0	0	1	1	PIPETTES: LUCY, MINE	
Columbia-no dilution	LCS	3	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	M-64B	5	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-64B DUP	6	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-64B SPK	7	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-64B	8	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-64B DUP	9	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-64B SPK	10	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-64B	11	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-64B DUP	12	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-64B SPK	13	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-95B	14	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-95B	15	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-95B	16	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	CCV	17	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	18	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	M-68B	19	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-68B	20	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-68B	21	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-67B	22	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-67B	23	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-67B	24	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-57AB	25	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-57AB	26	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	M-57AB	27	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution	CCV	28	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	29	1.0	1.0	1.0	100.0	0	1	1		

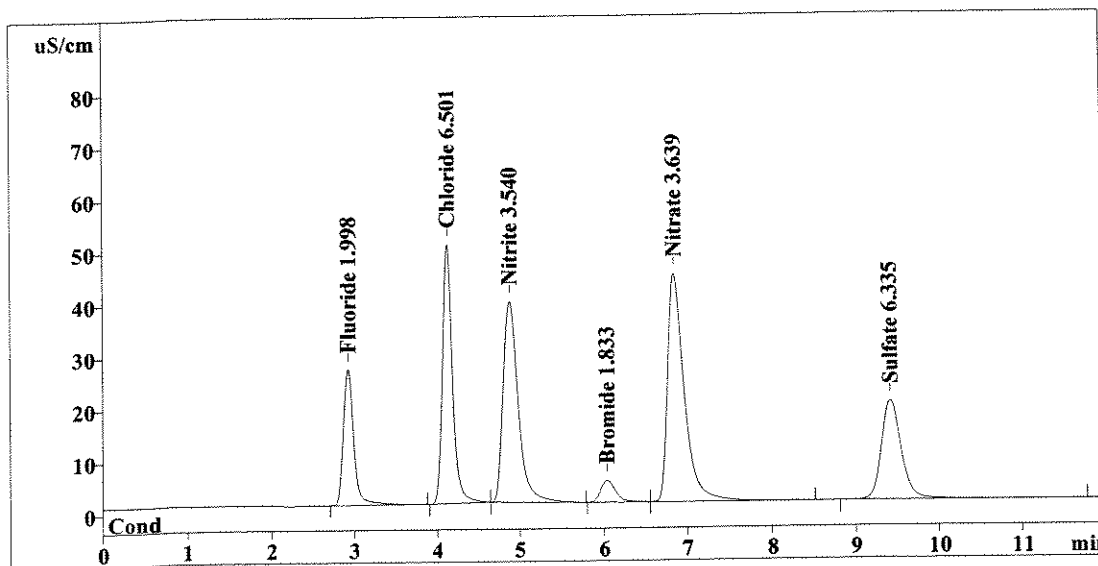
WORKSHEET
 UPD A

Report date: 6/28/2008 13:15:23
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 Ident: CCV
 Analysis from: 6/28/2008 13:03:25
 File: S6281303.CHW

Last save: 6/28/2008 13:15:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37659
 SAMPLE: ANALYST: TC
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	223.018	1.998	Fluoride
2	4.12	423.708	6.501	Chloride
3	4.88	481.717	3.540	Nitrite
4	6.04	51.158	1.833	Bromide
5	6.85	602.593	3.639	Nitrate
6	9.43	315.294	6.335	Sulfate
6	12.00	2097.489	23.847	

OK
↓

CM
7/1/08

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Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

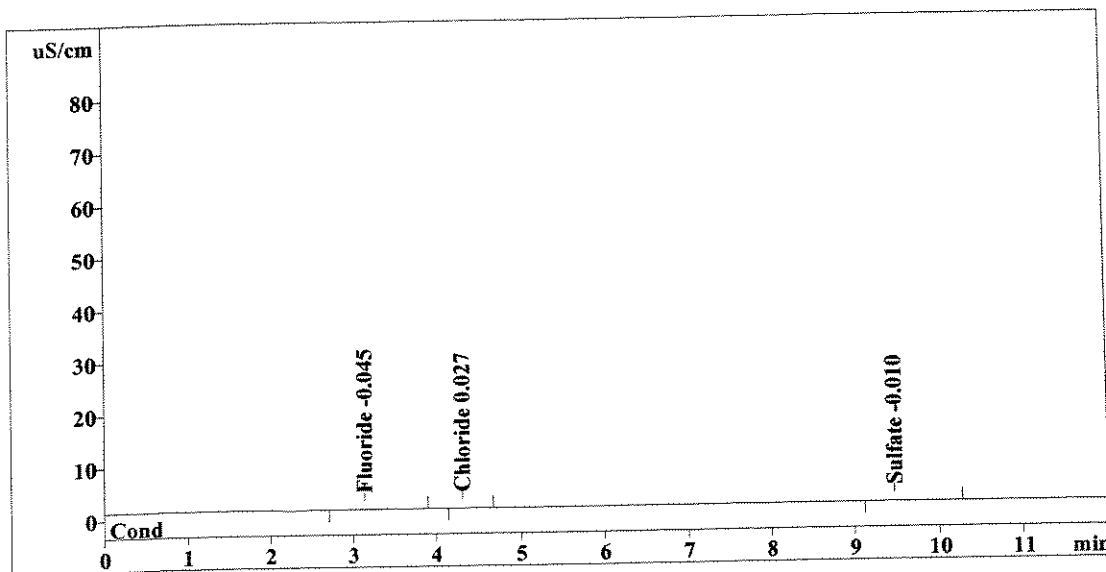
Method 300.0/9056

Report date: 6/28/2008 13:29:29
 Printed by: User
 Ident: CCB
 Analysis from: 6/28/2008 13:17:31
 File: S6281317.CHW

Last save: 6/28/2008 13:29:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37660
 SAMPLE: PIPETTES: LUCY, MINE
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.13	0.551	-0.045	Fluoride
2	4.30	0.223	0.027	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.47	0.598	-0.010	Sulfate
<hr/>				
6	12.00	1.372	0.081	

OK
 ↓
CYT
 7/1/08

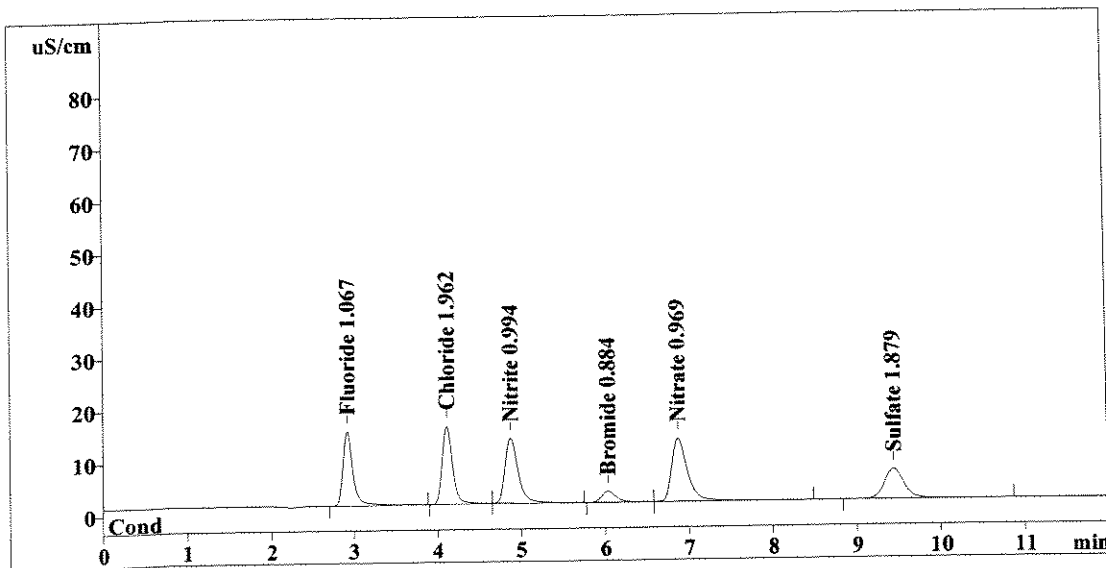
This report has been created by IC Net
 METROHM LTD

Report date: 6/28/2008 13:43:35
 Printed by: User
 Ident: LCS
 Analysis from: 6/28/2008 13:31:37
 File: S6281331.CHW

Last save: 6/28/2008 13:43:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37661
 SAMPLE:
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	121.666	1.067	Fluoride
2	4.11	126.801	1.962	Chloride
3	4.87	135.776	0.994	Nitrite
4	6.04	24.325	0.884	Bromide
5	6.87	158.379	0.969	Nitrate
6	9.45	94.277	1.879	Sulfate
6	12.00	661.224	7.755	

OK
 ↓
 OUT LOW
 OK
 ↓

[Handwritten signature]
 6/1/08

USE NO Bromide.

This report has been created by IC Net
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Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

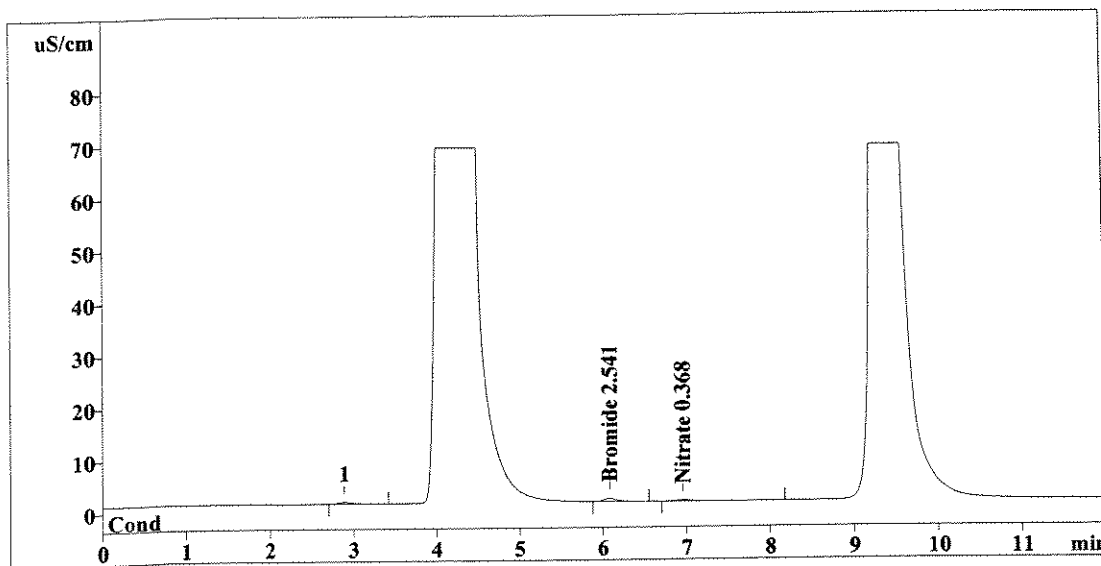
Method 300.0/9056

Report date: 6/28/2008 14:13:58
 Printed by: User
 Ident: M-6AB 1113427
 Analysis from: 6/28/2008 14:02:00
 File: S6281402.CHW

Last save: 6/28/2008 14:13:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37663
 SAMPLE: CBNNS
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.09	6.505	2.541	Bromide
5	6.95	3.395	0.368	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	9.900	2.909	

opt 1/40
OK
6/28/08

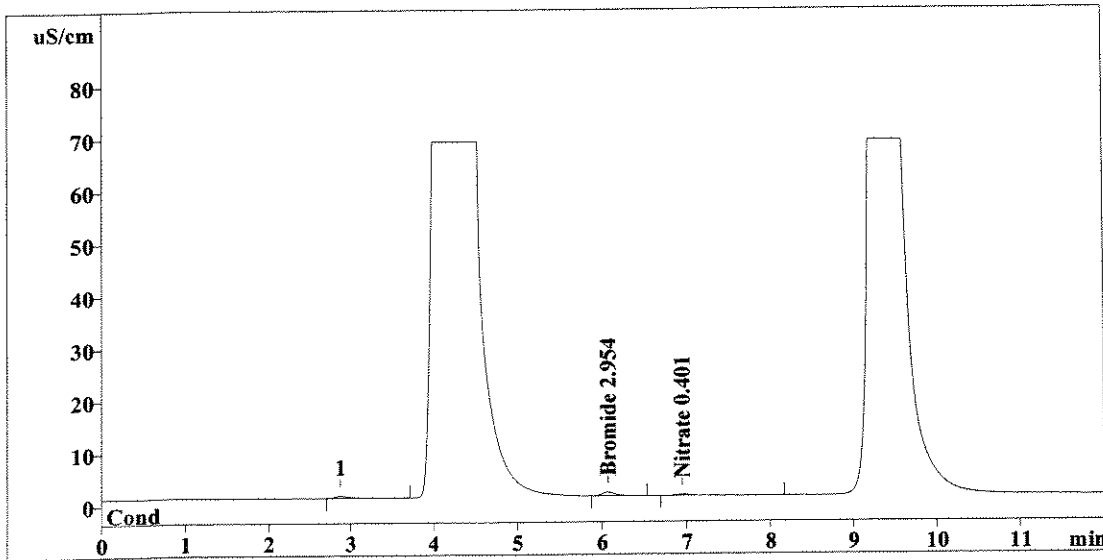
This report has been created by IC Net
 METROHM LTD

Report date: 6/28/2008 14:28:04
 Printed by: User
 Ident: M-6AB DUP 1113427 DUP
 Analysis from: 6/28/2008 14:16:06
 File: S6281416.CHW

Last save: 6/28/2008 14:28:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37664
 SAMPLE: CBNNS
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.08	7.673	2.954	Bromide
5	6.95	3.943	0.401	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	11.616	3.355	

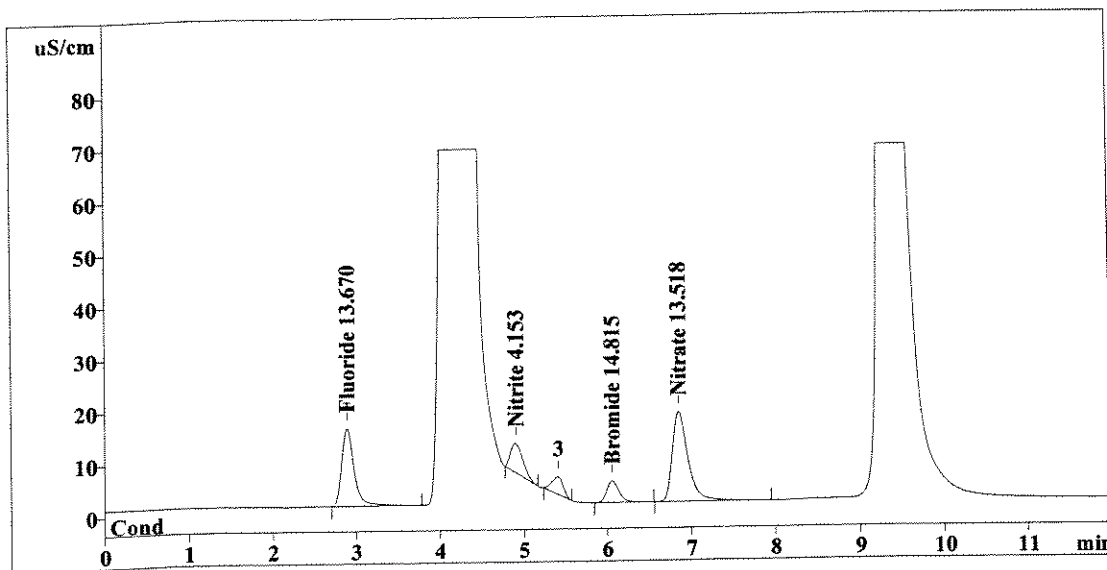
This report has been created by IC Net
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Report date: 6/28/2008 14:42:10
 Printed by: User
 Ident: M-6AB SPK 1113427SPK
 Analysis from: 6/28/2008 14:30:12
 File: S6281430.CHW

Last save: 6/28/2008 14:42:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37665
 SAMPLE: CBNNS
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.88	154.310	13.670	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.90	57.157	4.153	Nitrite
4	6.06	41.207	14.815	Bromide
5	6.85	222.109	13.518	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	474.782	46.157	

OK
 7/1/08

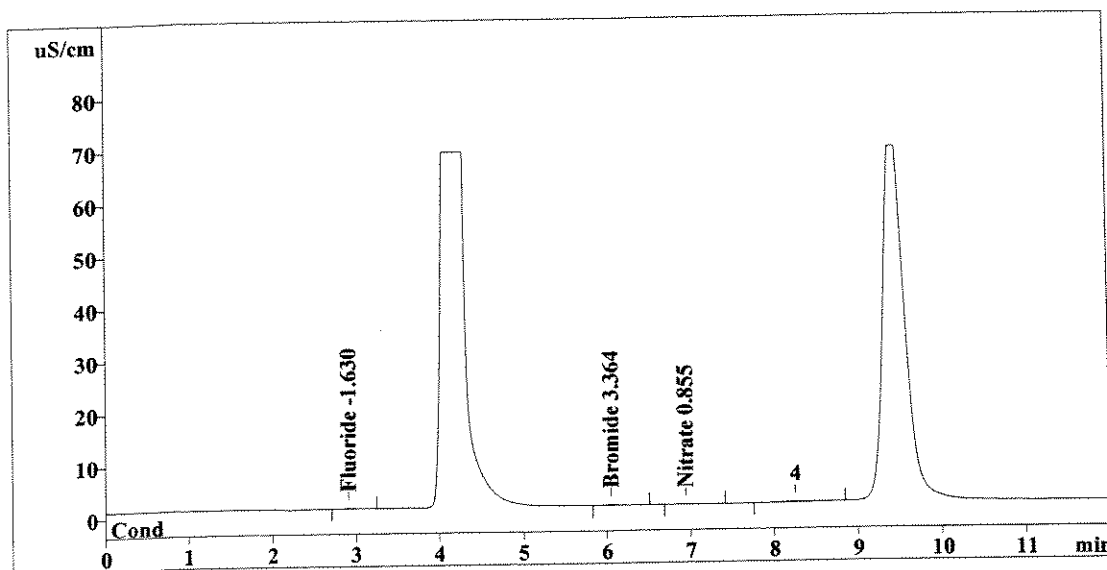
This report has been created by IC Net
 METROHM LTD

Report date: 6/28/2008 14:56:16
 Printed by: User
 Ident: M-6AB 1113427
 Analysis from: 6/28/2008 14:44:17
 File: S6281444.CHW

Last save: 6/28/2008 14:56:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37666
 SAMPLE: CBNS
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	1.029	-1.630	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.05	1.700	3.364	Bromide
5	6.94	0.826	0.855	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	3.554	5.849	

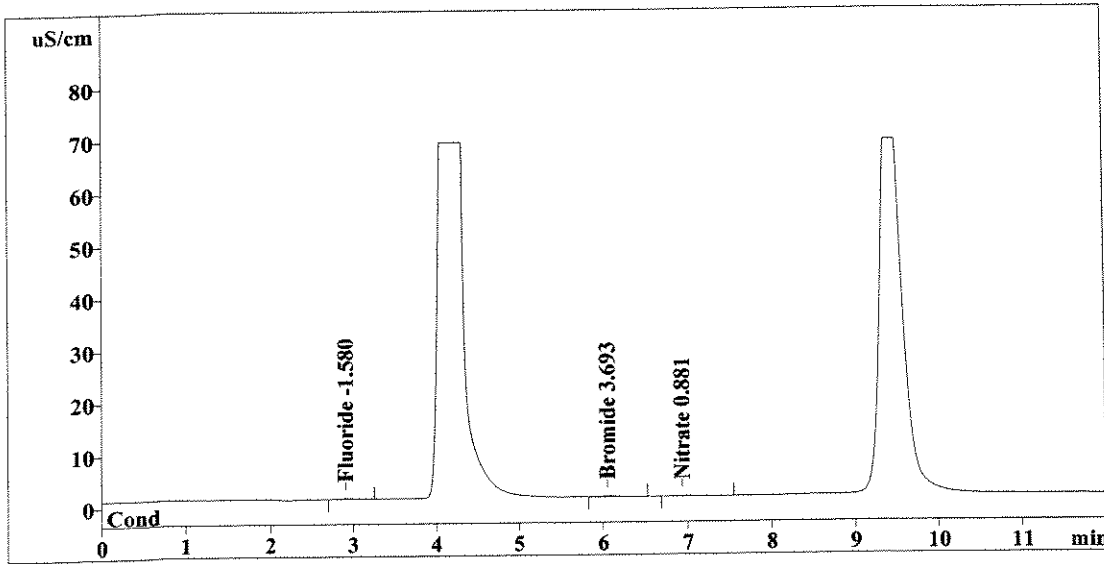
This report has been created by IC Net
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Report date: 6/28/2008 15:10:22
 Printed by: User
 Ident: M-6AB DUP 1113427DUP
 Analysis from: 6/28/2008 14:58:23
 File: S6281458.CHW

Last save: 6/28/2008 15:10:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37667
 SAMPLE: CBNNS
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	1.165	-1.580	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.05	1.932	3.693	Bromide
5	6.93	0.935	0.881	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	4.032	6.154	

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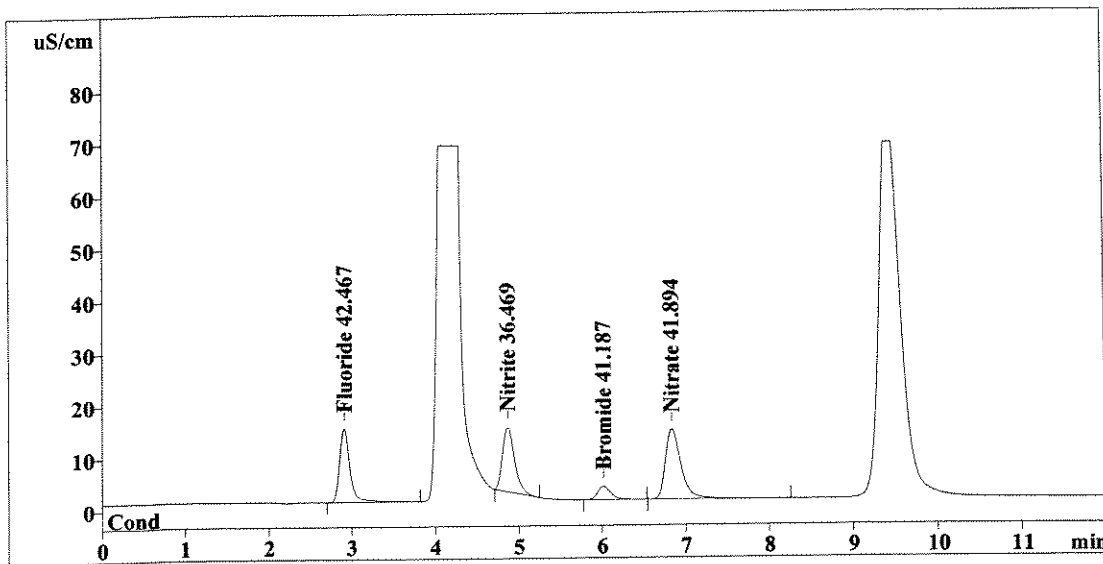
This report has been created by IC Net
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Report date: 6/28/2008 15:24:27
 Printed by: User
 Ident: M-6AB SPK 1113427 SPK
 Analysis from: 6/28/2008 15:12:29
 File: S6281512.CHW

Last save: 6/28/2008 15:24:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37668
 SAMPLE: CBNNS
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	121.065	42.467	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.86	124.600	36.469	Nitrite
4	6.02	28.433	41.187	Bromide
5	6.83	171.471	41.894	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	445.570	162.017	

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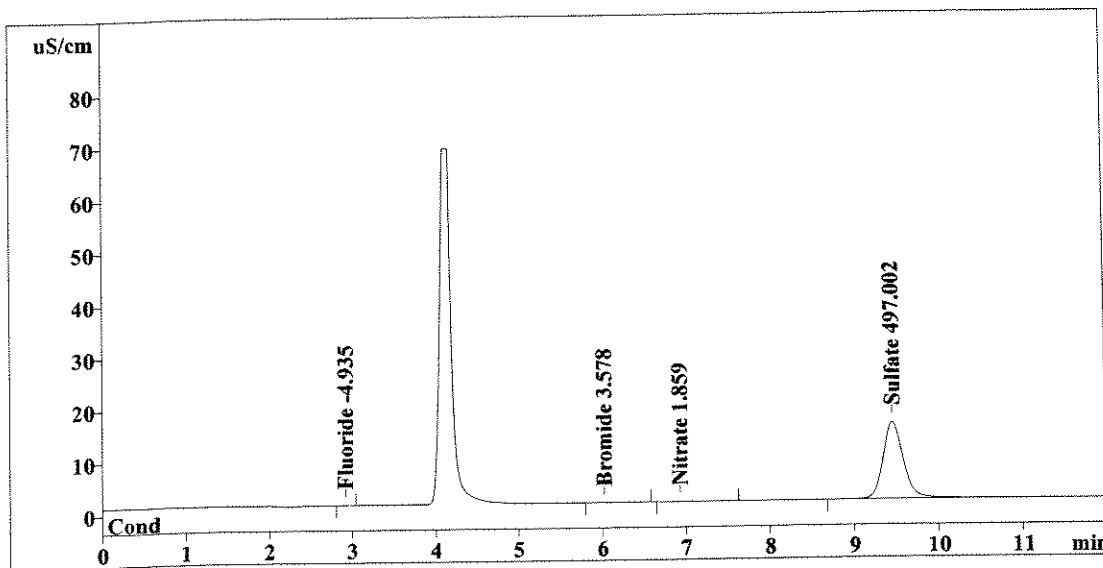
Method 300.0/9056

Report date: 6/28/2008 15:38:33
 Printed by: User
 Ident: M-6AB 1113427
 Analysis from: 6/28/2008 15:26:35
 File: S6281526.CHW

Last save: 6/28/2008 15:38:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37669
 SAMPLE: CBNNS
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.092	-4.935	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.03	0.333	3.578	Bromide
5	6.93	0.363	1.859	Nitrate
6	9.46	247.579	497.002	Sulfate
<hr/>				
6	12.00	248.368	507.374	

Handwritten notes: 'apt 1/400' next to row 2; 'OK' next to row 3; 'OK' next to row 6; '7/1/08' at the bottom right.

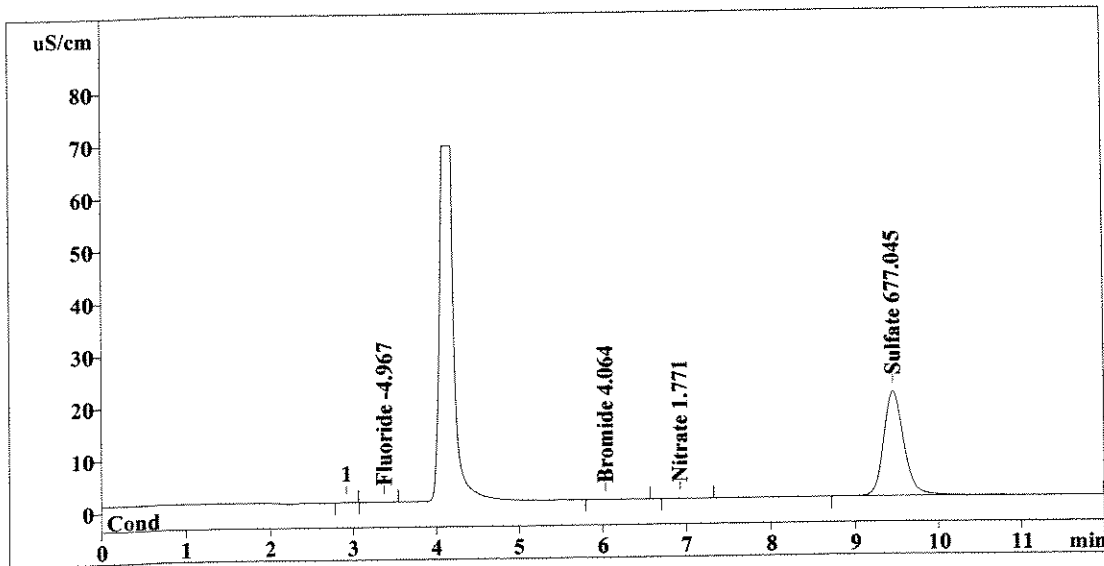
This report has been created by IC Net
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Report date: 6/28/2008 15:52:39
 Printed by: User
 Ident: M-6AB DUP 1113427 DUP
 Analysis from: 6/28/2008 15:40:41
 File: S6281540.CHW

Last save: 6/28/2008 15:52:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37670
 SAMPLE: CBNNS
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.057	-4.967	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.03	0.471	4.064	Bromide
5	6.93	0.217	1.771	Nitrate
6	9.46	336.879	677.045	Sulfate
6	12.00	337.624	687.847	

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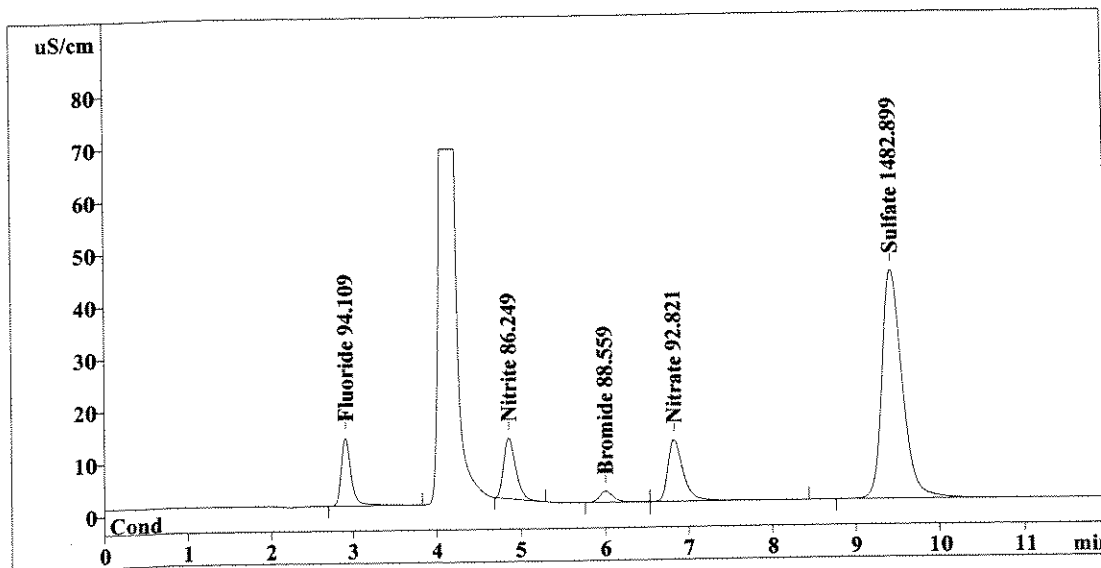
Sample + Dup RPD > 20%

Report date: 6/28/2008 16:06:45
 Printed by: User
 Ident: M-6AB SPK 11134273PK
 Analysis from: 6/28/2008 15:54:47
 File: S6281554.CHW

Last save: 6/28/2008 16:06:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37671
 SAMPLE: CBNNS
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	107.936	94.109	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.86	117.912	86.249	Nitrite
4	6.00	24.359	88.559	Bromide
5	6.83	151.655	92.821	Nitrate
6	9.45	736.578	1482.899	Sulfate
6	12.00	1138.440	1844.638	

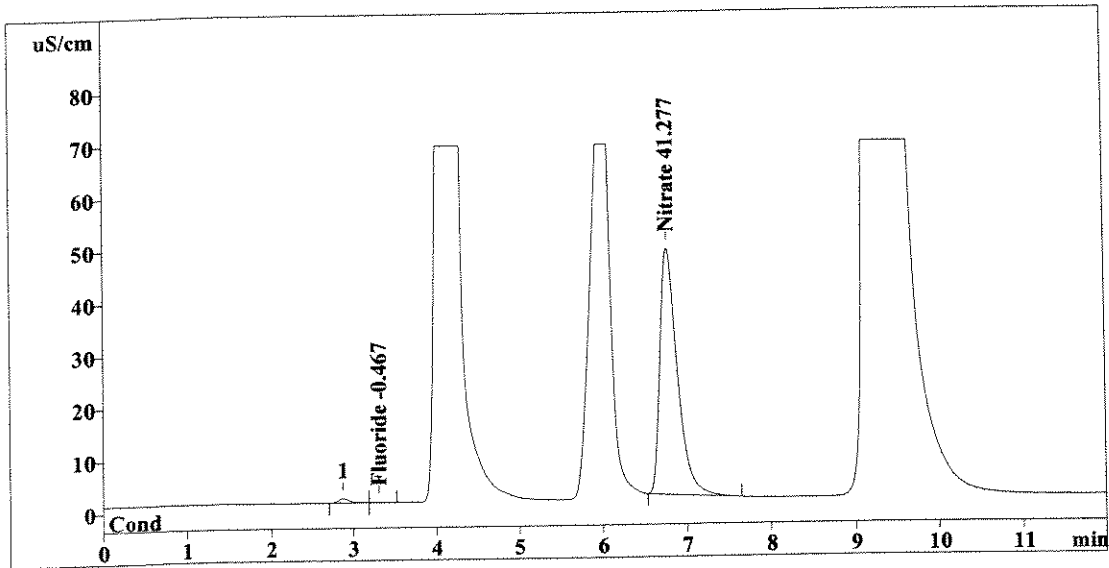
This report has been created by IC Net
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Report date: 6/28/2008 16:20:51
 Printed by: User
 Ident: M-95B 1113429
 Analysis from: 6/28/2008 16:08:53
 File: S6281608.CHW

Last save: 6/28/2008 16:20:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37672
 SAMPLE: CBNNS
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.31	0.382	-0.467	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.76	683.806	41.277	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	684.188	41.744	

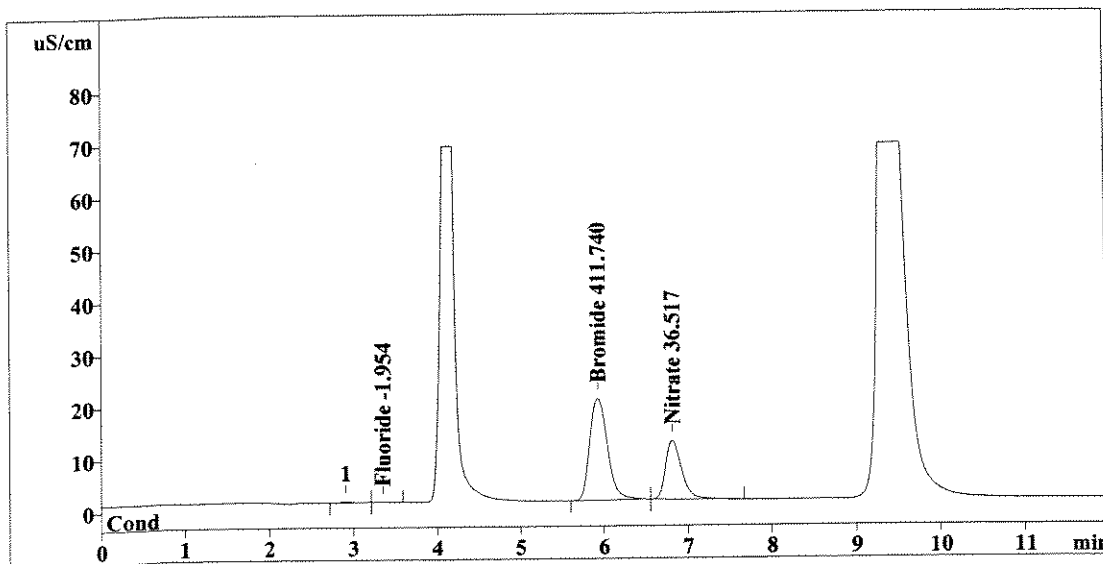
This report has been created by IC Net
 METROHM LTD

Report date: 6/28/2008 16:34:56
 Printed by: User
 Ident: M-95B 1113429
 Analysis from: 6/28/2008 16:22:58
 File: S6281622.CHW

Last save: 6/28/2008 16:34:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37673
 SAMPLE: CBNNS
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.146	-1.954	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.93	290.339	411.740	Bromide
5	6.81	149.113	36.517	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	439.598	450.211	

Handwritten notes: 'OK' next to row 3, and 'OK 7/1/08' next to row 6.

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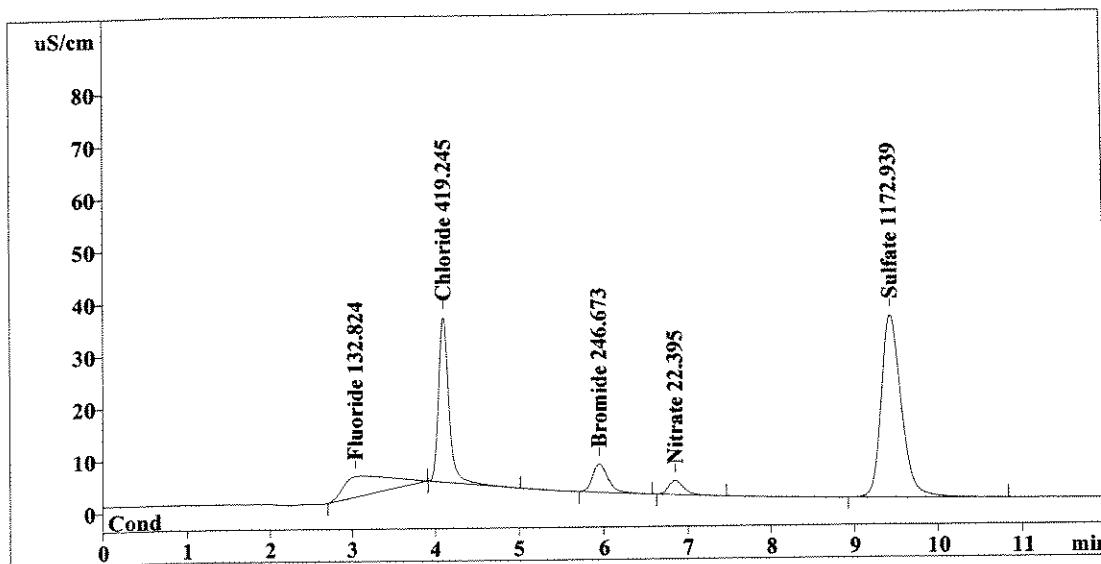
Method 300.0/9056

Report date: 6/28/2008 16:49:02
 Printed by: User
 Ident: M-95B 1113429
 Analysis from: 6/28/2008 16:37:04
 File: S6281637.CHW

Last save: 6/28/2008 16:49:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37674
 SAMPLE: CBNNS
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.03	150.090	132.824	Fluoride
2	4.10	272.705	419.245	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.95	69.061	246.673	Bromide
5	6.85	34.518	22.395	Nitrate
6	9.45	582.840	1172.939	Sulfate
6	12.00	1109.214	1994.075	

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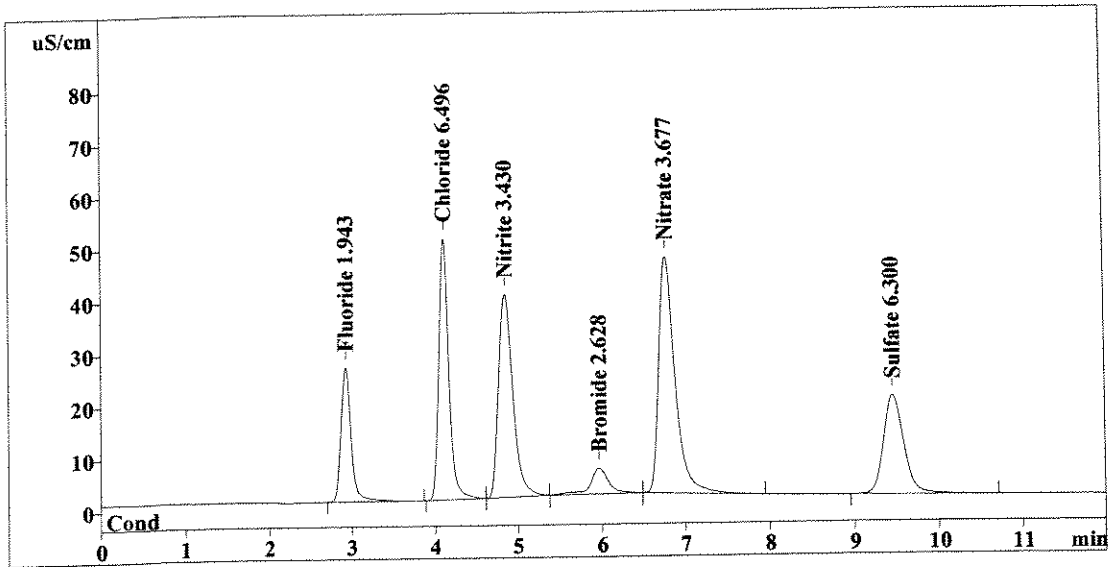
Method 300.0/9056

Report date: 6/28/2008 17:03:08
 Printed by: User
 Ident: CCV
 Analysis from: 6/28/2008 16:51:10
 File: S6281651.CHW

Last save: 6/28/2008 17:03:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37675
 SAMPLE:
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	217.007	1.943	Fluoride
2	4.10	423.361	6.496	Chloride
3	4.84	466.708	3.430	Nitrite
4	5.96	73.616	2.628	Bromide
5	6.77	608.915	3.677	Nitrate
6	9.46	313.536	6.300	Sulfate
<hr/>				
6	12.00	2103.142	24.473	

OK
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 OUT HIGH
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 OK

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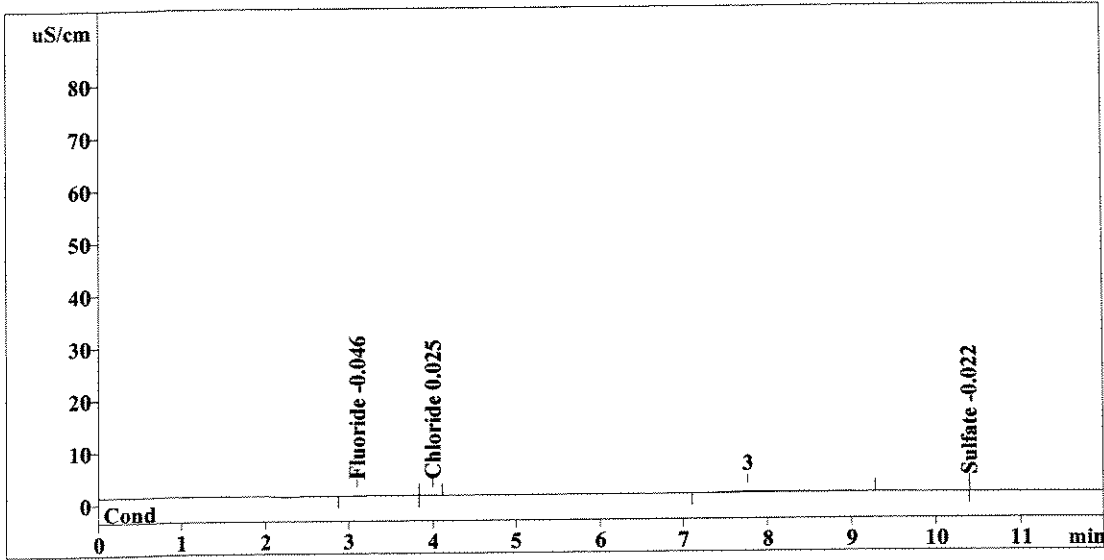
Method 300.0/9056

Report date: 6/28/2008 17:17:14
 Printed by: User
 Ident: CCB
 Analysis from: 6/28/2008 17:05:16
 File: S6281705.CHW

Last save: 6/28/2008 17:17:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37676
 SAMPLE:
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.09	0.422	-0.046	Fluoride
2	3.99	0.094	0.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	10.40	-0.000	-0.022	Sulfate
6	12.00	0.516	0.093	

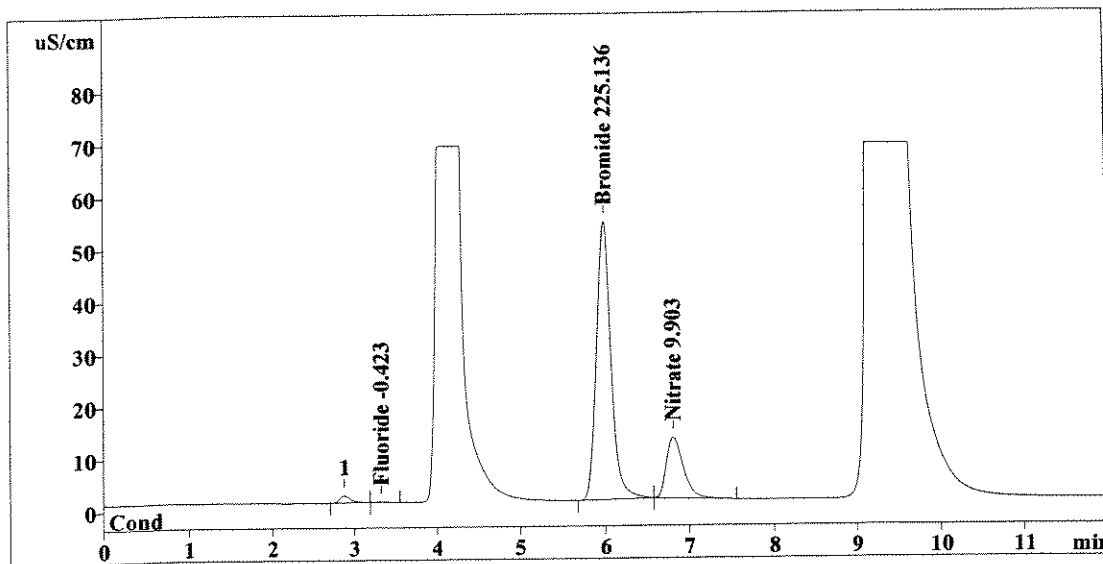
This report has been created by IC Net
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Report date: 6/28/2008 17:31:20
 Printed by: User
 Ident: M-68B 1113430
 Analysis from: 6/28/2008 17:19:22
 File: S6281719.CHW

Last save: 6/28/2008 17:31:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37677
 SAMPLE: CENNS
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.32	0.856	-0.423	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	635.824	225.136	Bromide
5	6.81	161.982	9.903	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	798.662	235.462	

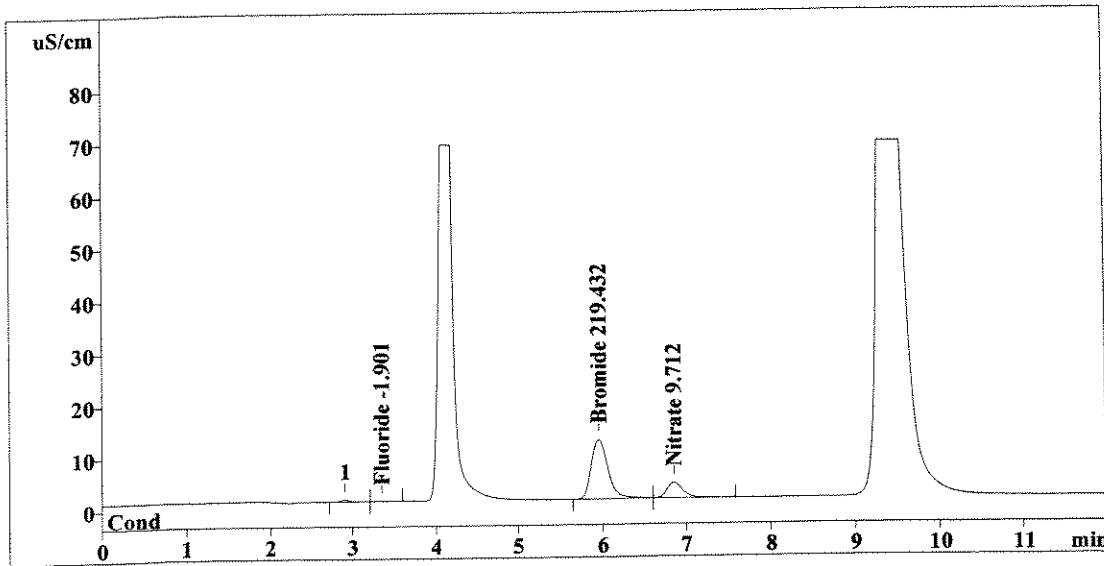
This report has been created by IC Net
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Report date: 6/28/2008 17:45:26
 Printed by: User
 Ident: M-68B 1113430
 Analysis from: 6/28/2008 17:33:28
 File: S6281733.CHW

Last save: 6/28/2008 17:45:24

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37678
 SAMPLE: CBNNS
 Vial number: 20
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.290	-1.901	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.95	154.416	219.432	Bromide
5	6.85	37.653	9.712	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	192.359	231.045	

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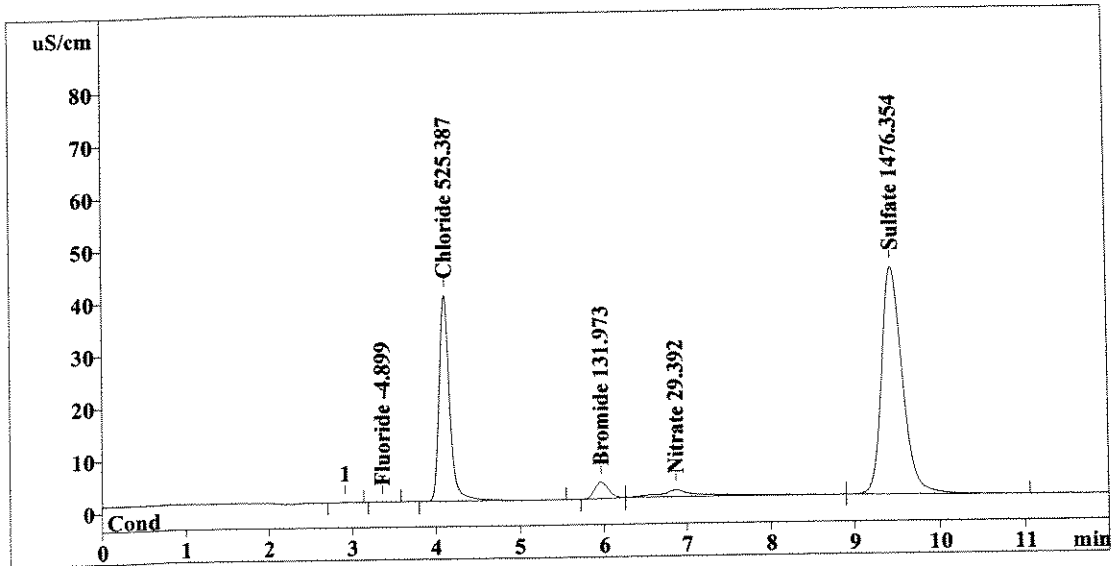
Method 300.0/9056

Report date: 6/28/2008 17:59:32
 Printed by: User
 Ident: M-68B 1113430
 Analysis from: 6/28/2008 17:47:33
 File: S6281747.CHW

Last save: 6/28/2008 17:59:30

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37679
 SAMPLE: CBNNS
 Vial number: 21
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.131	-4.899	Fluoride
2	4.10	342.132	525.387	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	36.633	131.973	Bromide
5	6.87	46.156	29.392	Nitrate
6	9.45	733.332	1476.354	Sulfate
6	12.00	1158.384	2168.004	

OK
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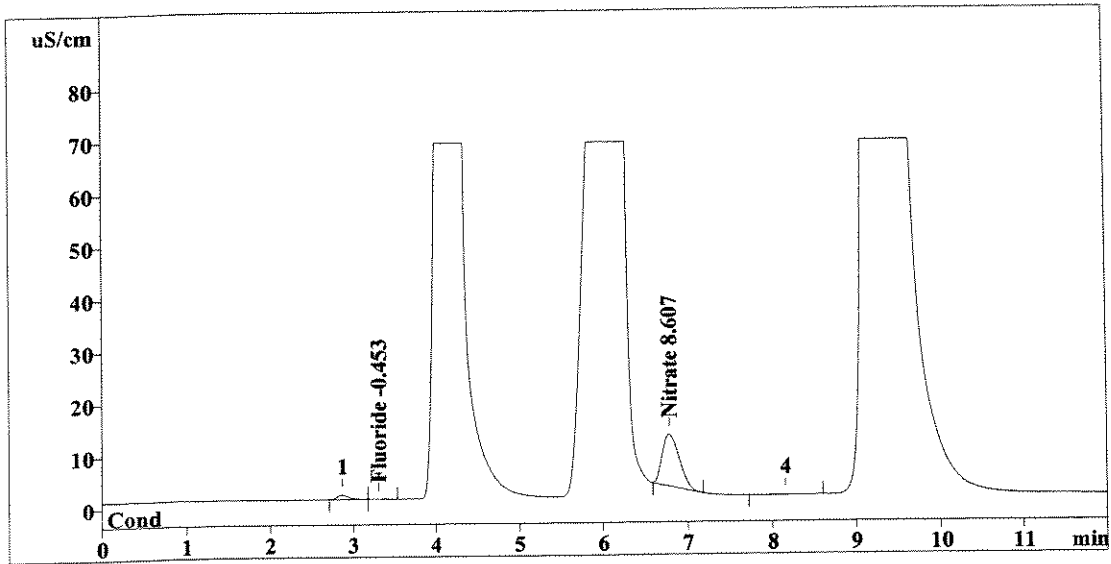
Method 300.0/9056

Report date: 6/28/2008 18:13:37
 Printed by: User
 Ident: M-67B 1113426
 Analysis from: 6/28/2008 18:01:39
 File: S6281801.CHW

Last save: 6/28/2008 18:13:36

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37680
 SAMPLE: CBNNS
 Vial number: 22
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.31	0.538	-0.453	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.78	140.428	8.607	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	140.966	9.060	

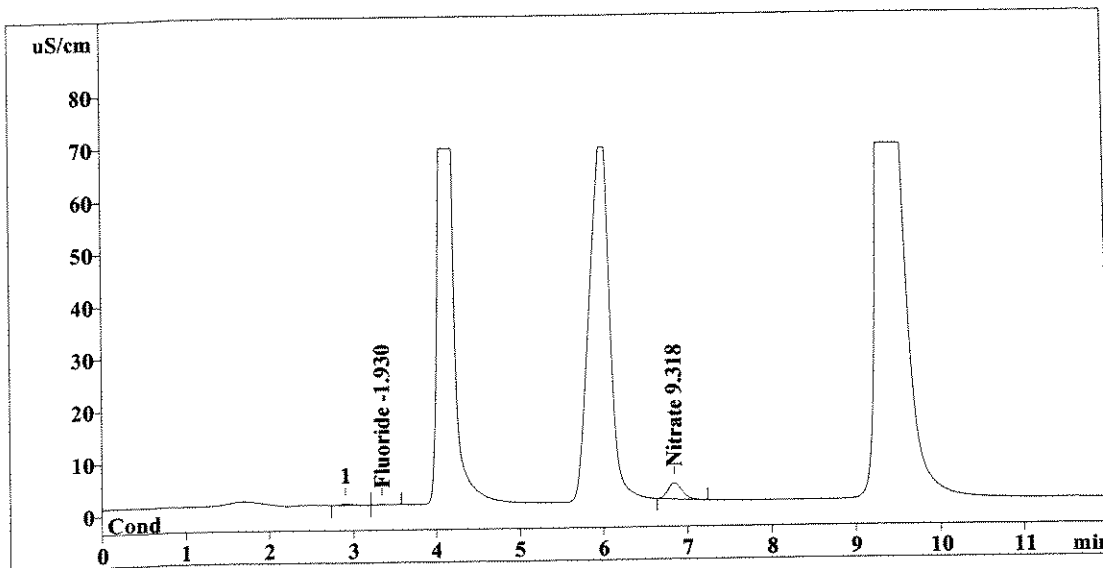
This report has been created by IC Net
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Report date: 6/28/2008 18:27:43
 Printed by: User
 Ident: M-67B 1113426
 Analysis from: 6/28/2008 18:15:45
 File: S6281815.CHW

Last save: 6/28/2008 18:27:42

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37681
 SAMPLE: CBNNS
 Vial number: 23
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.212	-1.930	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.84	36.017	9.318	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	36.229	11.248	

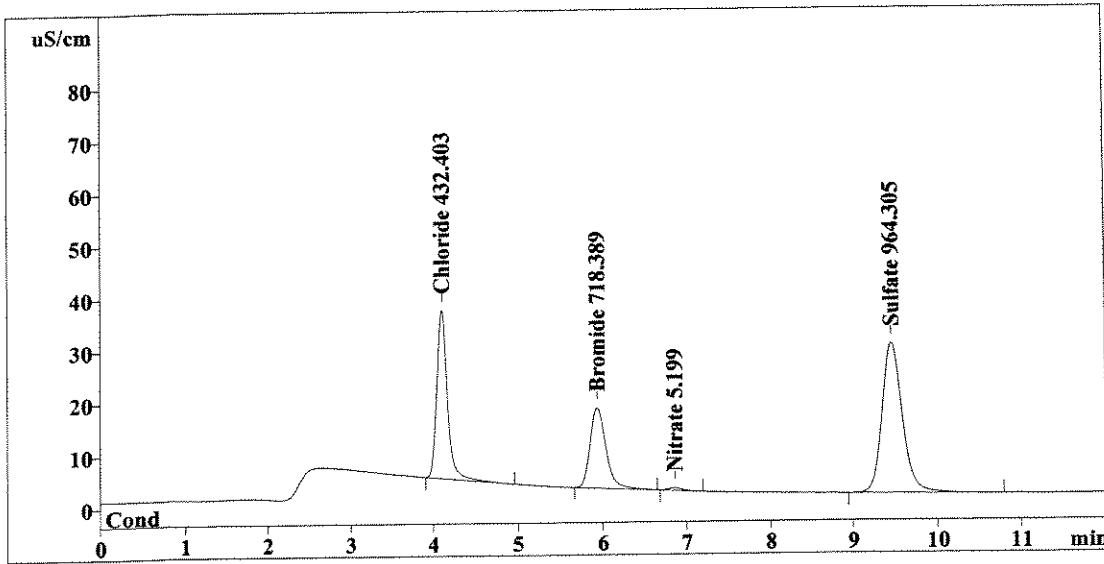
This report has been created by IC Net
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Report date: 6/28/2008 18:41:49
 Printed by: User
 Ident: M-67B 1113426
 Analysis from: 6/28/2008 18:29:51
 File: S6281829.CHW

Last save: 6/28/2008 18:41:48

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37682
 SAMPLE: CBNNS
 Vial number: 24
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.10	281.311 <i>npt 1/100</i>	432.403	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.93	202.424	718.389	Bromide
5	6.86	5.917	5.199	Nitrate
6	9.46	479.359 <i>npt 1/400</i>	964.305	Sulfate
6	12.00	969.012	2120.295	

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Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

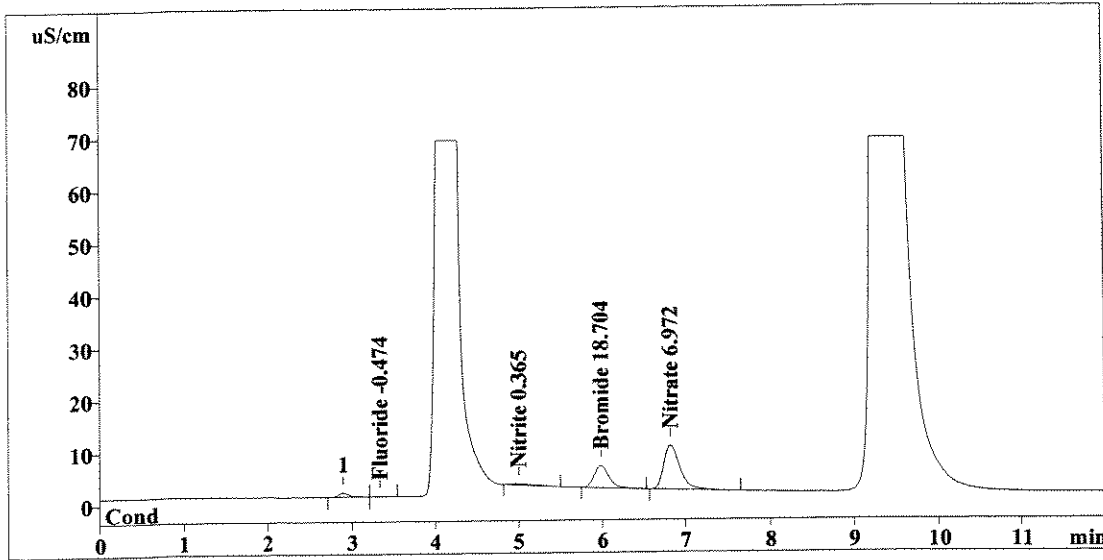
Method 300.0/9056

Report date: 6/28/2008 18:56:01
 Printed by: User
 Ident: M-57AB 1113428
 Analysis from: 6/28/2008 18:43:57
 File: S6281843.CHW

Last save: 6/28/2008 18:55:59

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37683
 SAMPLE: CBNNS
 Vial number: 25
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.33	0.307	-0.474	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.00	5.688	0.365	Nitrite
4	5.98	52.201	18.704	Bromide
5	6.82	113.225	6.972	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	171.421	26.514	

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 Rochester, NY 14609

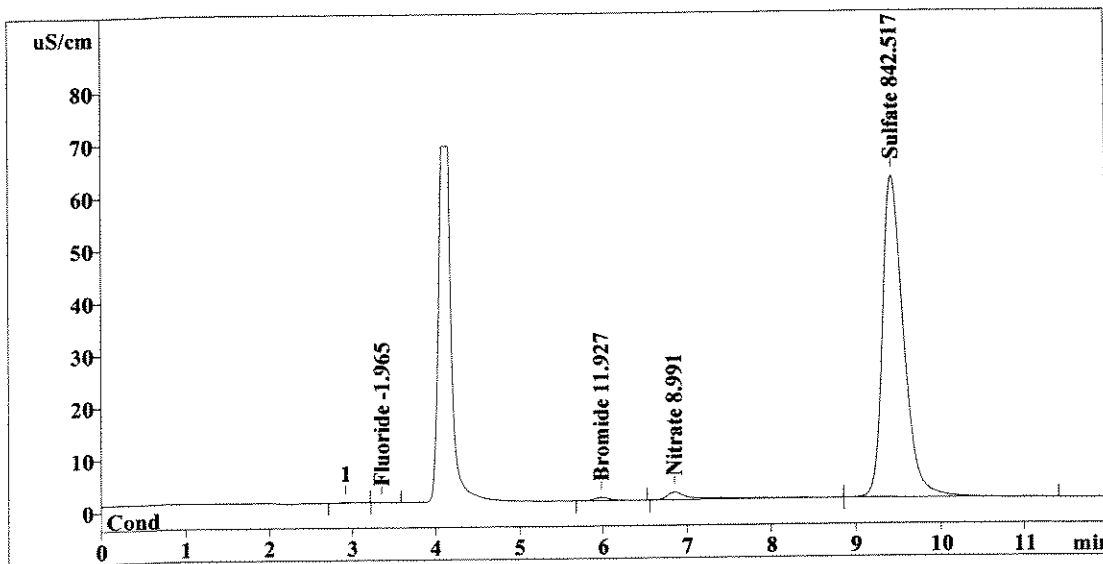
Method 300.0/9056

Report date: 6/28/2008 19:10:15
 Printed by: User
 Ident: M-57AB 1113428
 Analysis from: 6/28/2008 18:58:17
 File: S6281858.CHW

Last save: 6/28/2008 19:10:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37684
 SAMPLE: CBNS
 Vial number: 26
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.115	-1.965	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	7.751	11.927	Bromide
5	6.85	34.654	8.991	Nitrate
6	9.45	1045.777	842.517	Sulfate
6	12.00	1088.298	865.400	

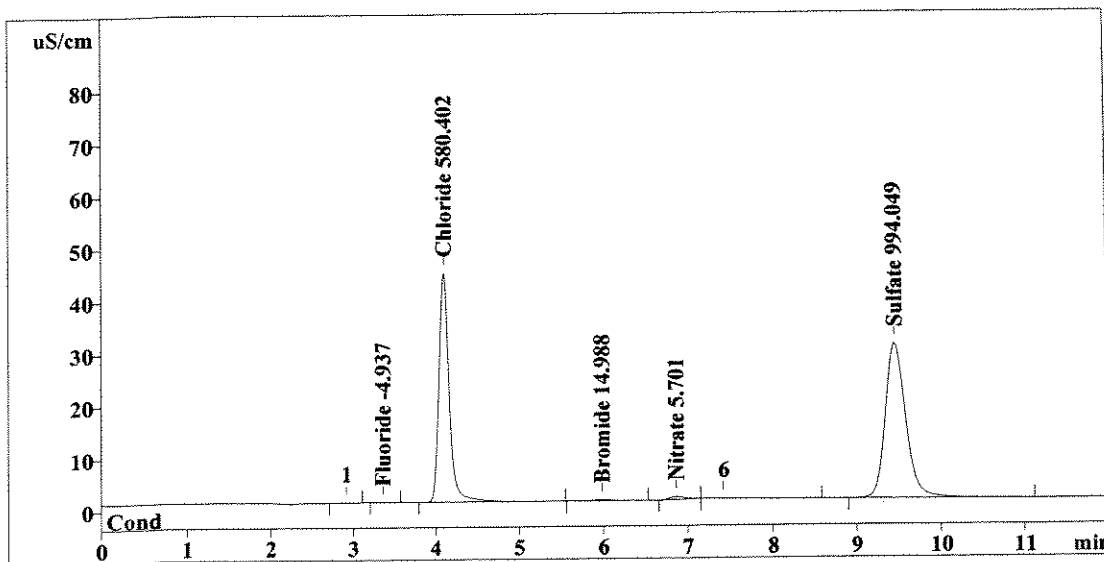
This report has been created by IC Net
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Report date: 6/28/2008 19:24:21
 Printed by: User
 Ident: M-57AB 1113428
 Analysis from: 6/28/2008 19:12:22
 File: S6281912.CHW

Last save: 6/28/2008 19:24:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37685
 SAMPLE: CBNNS
 Vial number: 27
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.090	-4.937	Fluoride
2	4.10	378.117	580.402	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	3.559	14.988	Bromide
5	6.86	6.754	5.701	Nitrate
6	9.47	494.111	994.049	Sulfate
6	12.00	882.632	1600.076	

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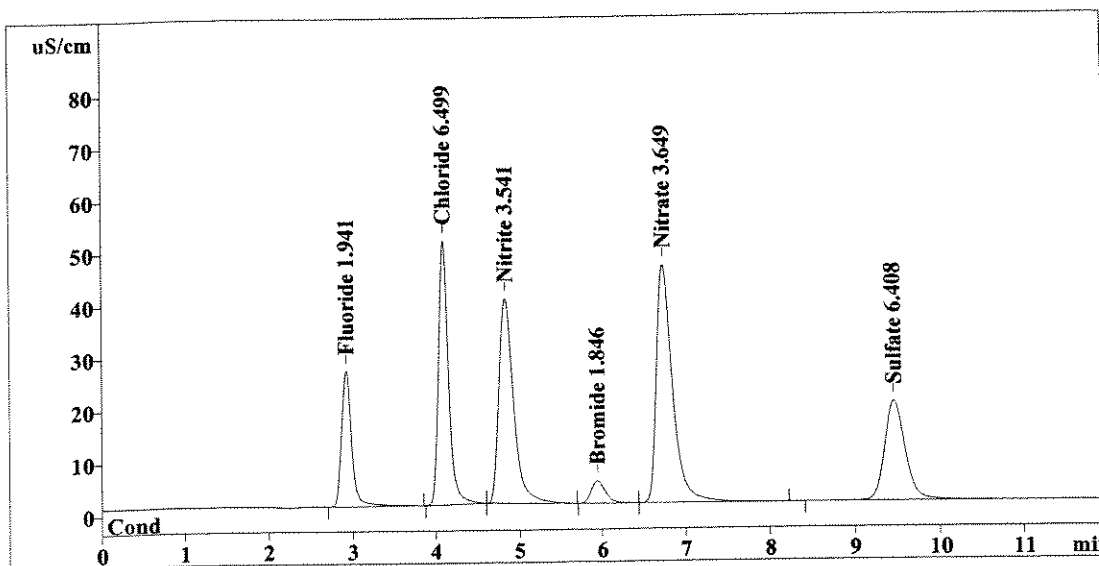
Method 300.0/9056

Report date: 6/28/2008 19:38:27
 Printed by: User
 Ident: CCV
 Analysis from: 6/28/2008 19:26:28
 File: S6281926.CHW

Last save: 6/28/2008 19:38:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37686
 SAMPLE:
 Vial number: 28
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	216.761	1.941	Fluoride
2	4.09	423.604	6.499	Chloride
3	4.83	481.830	3.541	Nitrite
4	5.94	51.516	1.846	Bromide
5	6.74	604.160	3.649	Nitrate
6	9.47	318.919	6.408	Sulfate
6	12.00	2096.789	23.884	

Handwritten notes: 'OK' with an arrow pointing to the 6.499 and 3.541 rows, and a signature 'C. J. 6/28/08' with an arrow pointing to the 12.00 min row.

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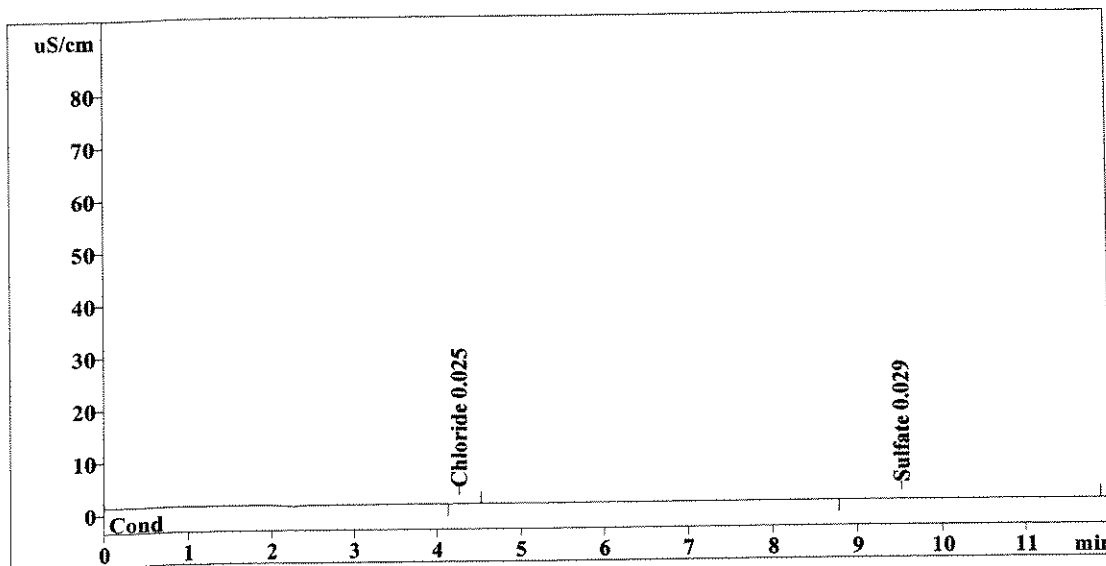
Method 300.0/9056

Report date: 6/28/2008 19:52:32
 Printed by: User
 Ident: CCB
 Analysis from: 6/28/2008 19:40:34
 File: S6281940.CHW

Last save: 6/28/2008 19:52:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37687
 SAMPLE:
 Vial number: 29
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/28/2008 12:05:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.27	0.123	0.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.52	2.523	0.029	Sulfate
6	12.00	2.645	0.054	

Handwritten notes: 'OK' with a checkmark and a downward arrow pointing to the 6th row. A signature and date '7/1/08' are written below the table.

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Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861
 Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 06/10/2008 Loop size: 50 uL Loop

Analyst: C. Woods / T. Christ Analysis Date: 6-28-08

Is copy of LCS attached to run? YES NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A		Working Calibration Stds	06/10/08	WC72050H
LCS/MS Intermediate	06/10/08	WC72050A		Working LCS/MS Standard	06/26/08	WC72093D
ICV Intermediate	05/05/08	WC72134B		Working ICV Standard	DAILY	WC72134H
CCV Intermediate	05/05/08	WC72134B		Working CCV Standard	DAILY	WC72134H

Comments:

CALIBRATION EXPIRES ON 12/10/2008

CHORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mL sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC720930A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720930A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720930B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC720930C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC720930D
NO3		50			1.0	OMW	7/3/08	E	7/6/08	WC720930E
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Run #: 163356
Analyte: CHLORIDE 9056
Printed: 07/09/08 12:13

CHLORIDE BY ION CHROMATOGRAPHY

44666 44621
44650 44803
44768

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLK5		1115709	SOIL/SEDIME	2.25	1.0	20.0			07/03/2008		
ESMP	R2844666	1112365	SOIL/SEDIME	1170	40.0	20.0			07/03/2008		ASPB
ESMP	R2844650	1112871	WATER	727	100.0	0.200			07/03/2008		ASPB
CHK5		1115706	WATER	6.52	1.0	0.200	100.3		07/02/2008		
BLK4		1115707	WATER	0.200	U	1.0	0.200		07/02/2008		
SPKB		1115708	WATER	1.89		1.0	0.200	94.7	07/02/2008		
BLK5		1115710	SOIL/SEDIME	20.0	U	1.0	20.0		07/02/2008		
ESMP	R2844666	1113255	SOIL/SEDIME	244	10.0	20.0			07/02/2008		ASPB
ESMP	R2844666	1113256	SOIL/SEDIME	76.1	2.0	20.0			07/02/2008		ASPB
ESMP	R2844666	1113259	SOIL/SEDIME	719	10.0	20.0			07/02/2008		ASPB

Records printed: 10

Reviewed & Approved

By: S. Jett

Date: 7/10/08

07-02-08

Data Manually Entered

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution	CCV	1	1.0	1.0	1.0	100.0		1	1		
Columbia-no dilution	CCB	2	1.0	1.0	1.0	100.0		1	1		
Columbia-no dilution	LCS	3	1.0	1.0	1.0	100.0		1	1		
Columbia-no dilution	1114419	4	1.0	10.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114420	5	1.0	10.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114421	6	1.0	10.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114421 DUP	7	1.0	10.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114421 SPK	8	1.0	10.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114419	9	1.0	40.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114420	10	1.0	40.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114421	11	1.0	40.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114421 DUP	12	1.0	40.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114421 SPK	13	1.0	40.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114419	14	1.0	100.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114420	15	1.0	100.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114421	16	1.0	100.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114421 DUP	17	1.0	100.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1114421 SPK	18	1.0	100.0	1.0	100.0		1	1	CBNNS	
Columbia-no dilution	1113696	19	1.0	400.0	1.0	100.0		1	1	CS	
Columbia-no dilution	CCV	20	1.0	1.0	1.0	100.0		1	1		
Columbia-no dilution	CCB	21	1.0	1.0	1.0	100.0		1	1		
Columbia-no dilution	1113698	22	1.0	400.0	1.0	100.0		1	1	S	
Columbia-no dilution	1113699	23	1.0	400.0	1.0	100.0		1	1	S	
Columbia-no dilution	METHOD BLANK	24	1.0	1.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	1113250	25	1.0	2.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	1113250 DUP	26	1.0	2.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	1113250 SPK	27	1.0	2.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	1113254	28	1.0	10.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	1113256	29	1.0	10.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	1113255	30	1.0	2.0	1.0	100.0		1	1	EXTRACTED - C	
Columbia-no dilution	1113256	31	1.0	10.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	1113257	32	1.0	4.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	1113258	33	1.0	400.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	1113259	34	1.0	10.0	1.0	100.0		1	1	EXTRACTED - CS	
Columbia-no dilution	CCV	35	1.0	1.0	1.0	100.0		1	1		
Columbia-no dilution	CCB	36	1.0	1.0	1.0	100.0		1	1		
Columbia-no dilution	LCS	37	1.0	1.0	1.0	100.0		1	1		
Columbia-no dilution	1113262	38	1.0	10.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	METHOD BLANK	39	1.0	1.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	1113263	40	1.0	100.0	1.0	100.0		1	1	EXTRACTED - S	
Columbia-no dilution	1112565	41	1.0	40.0	1.0	100.0		1	1	F	
Columbia-no dilution	1111897	42	1.0	1.0	1.0	100.0		1	1	CS	
Columbia-no dilution	1111897	43	1.0	20.0	1.0	100.0		1	1	CS	
Columbia-no dilution	1111898	44	1.0	20.0	1.0	100.0		1	1	CS	
Columbia-no dilution	1111899	45	1.0	20.0	1.0	100.0		1	1	CS	
Columbia-no dilution	1111893	46	1.0	10.0	1.0	100.0		1	1	CS	
Columbia-no dilution	1111983 DUP	47	1.0	10.0	1.0	100.0		1	1	CS	
Columbia-no dilution	1111983 SPK	48	1.0	10.0	1.0	100.0		1	1	CS	
Columbia-no dilution	1111984	49	1.0	10.0	1.0	100.0		1	1	CS	
Columbia-no dilution	1111985	50	1.0	10.0	1.0	100.0		1	1	CS	
Columbia-no dilution	CCV	51	1.0	1.0	1.0	100.0		1	1		
Columbia-no dilution	CCB	52	1.0	1.0	1.0	100.0		1	1		
Columbia-no dilution	1112871	53	1.0	100.0	1.0	100.0		1	1	CS	
Columbia-no dilution	1112872	54	1.0	100.0	1.0	100.0		1	1	CS	

Analyst: C. Woods
 Pipets: Pine
 Every

02251

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution	1112874	55	1.0	100.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1112874 DUP	56	1.0	100.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1112874 SPK	57	1.0	100.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	CCY	58	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	59	1.0	1.0	1.0	100.0	0	1	1		

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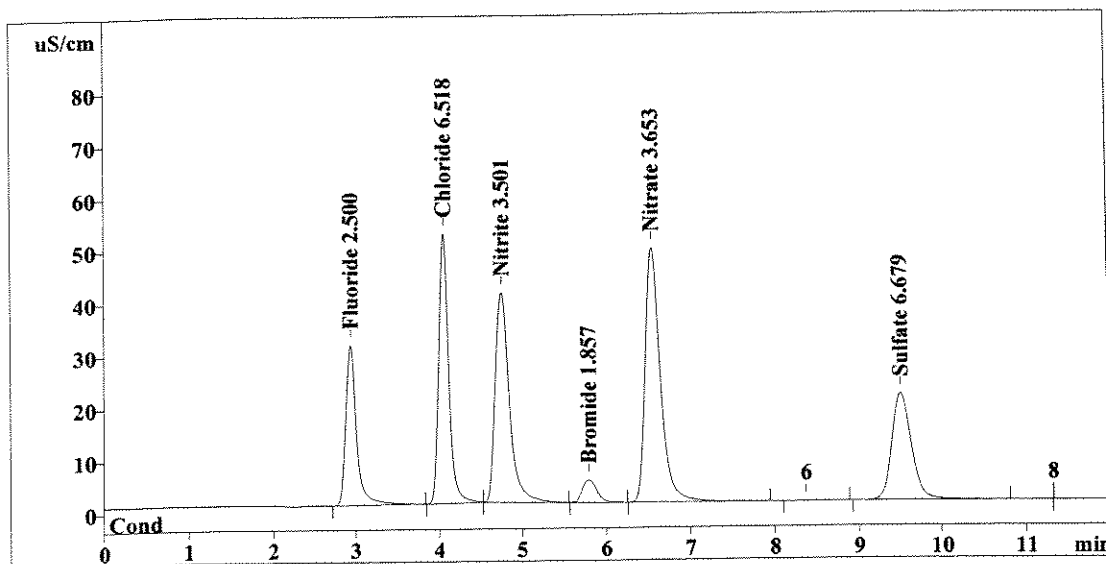
Method 300.0/9056

Report date: 7/2/2008 15:47:53
 Printed by: User
 Ident: CCV
 Analysis from: 7/2/2008 15:35:55
 File: S7021535.CHW

Last save: 7/2/2008 15:47:53

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37760
 SAMPLE:
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	277.728	2.500	Fluoride
2	4.05	424.802	6.518	Chloride
3	4.75	476.387	3.501	Nitrite
4	5.79	51.831	1.857	Bromide
5	6.55	604.861	3.653	Nitrate
6	9.52	332.320	6.679	Sulfate
6	12.00	2167.928	24.708	

NOT HIGH
 α
 ↓

CCV
 7/3/08

USE NO F.
 CCV
 7/3/08

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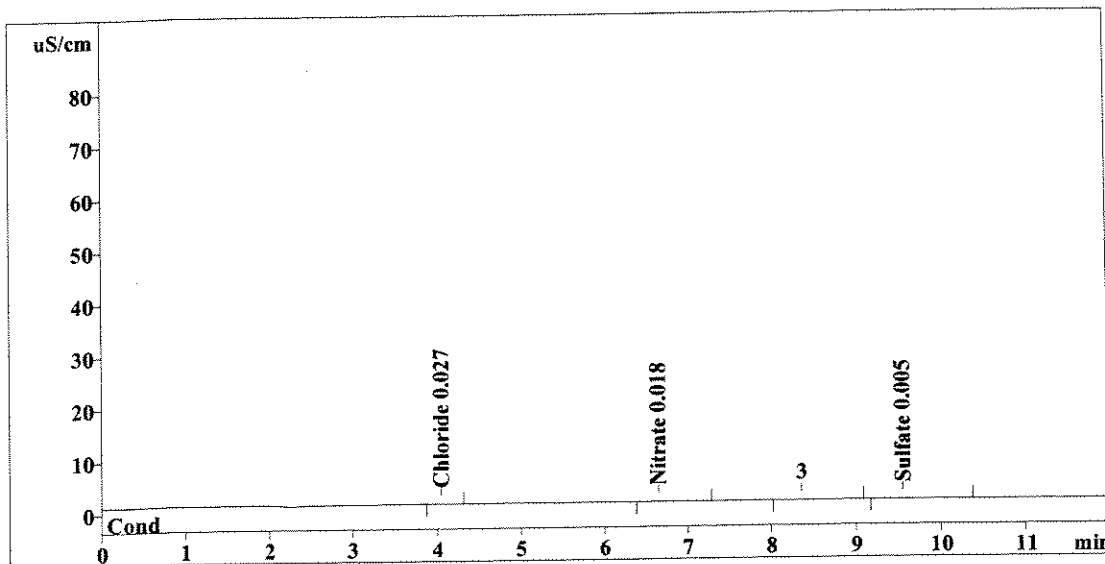
Method 300.0/9056

Report date: 7/2/2008 16:01:59
 Printed by: User
 Ident: CCB
 Analysis from: 7/2/2008 15:50:01
 File: S7021550.CHW

Last save: 7/2/2008 16:01:59

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37761
 SAMPLE:
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.05	0.268	0.027	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.65	0.216	0.018	Nitrate
6	9.55	1.321	0.005	Sulfate
<hr/>				
6	12.00	1.804	0.050	

OK
 ↓
 7/2/08

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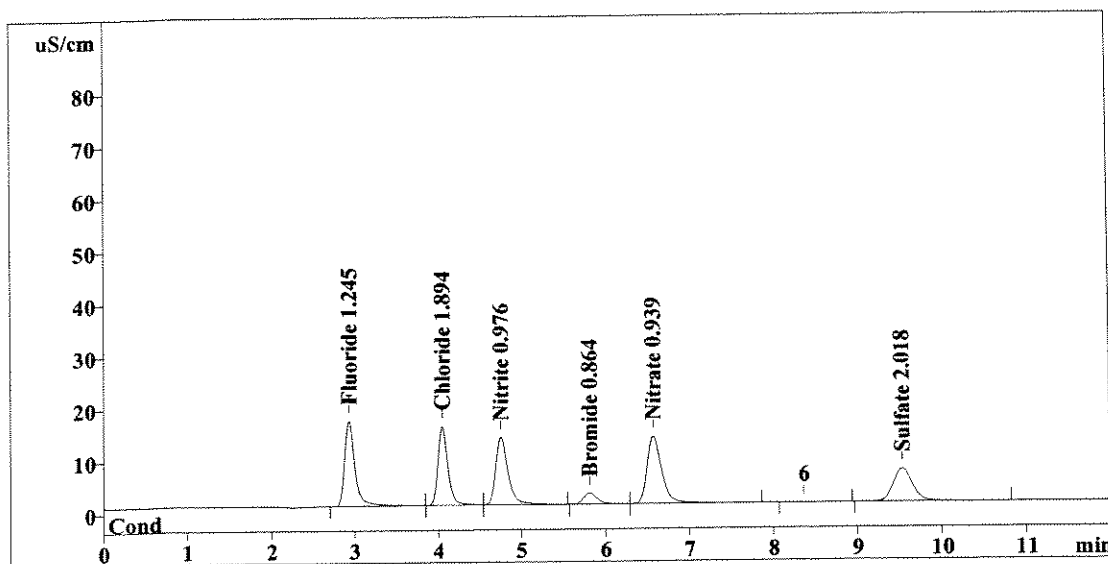
Method 300.0/9056

Report date: 7/2/2008 16:16:26
 Printed by: User
 Ident: LCS
 Analysis from: 7/2/2008 16:04:28
 File: S7021604.CHW

Last save: 7/2/2008 16:16:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37762
 SAMPLE:
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	141.031	1.245	Fluoride
2	4.05	122.381	1.894	Chloride
3	4.75	133.392	0.976	Nitrite
4	5.81	23.749	0.864	Bromide
5	6.57	153.525	0.939	Nitrate
6	9.53	101.168	2.018	Sulfate
<hr/>				
6	12.00	675.247	7.937	

Handwritten notes:
 OUTHIGH
 OK
 ↓
 OUT LOW
 OK
 ↓
 7/3/08

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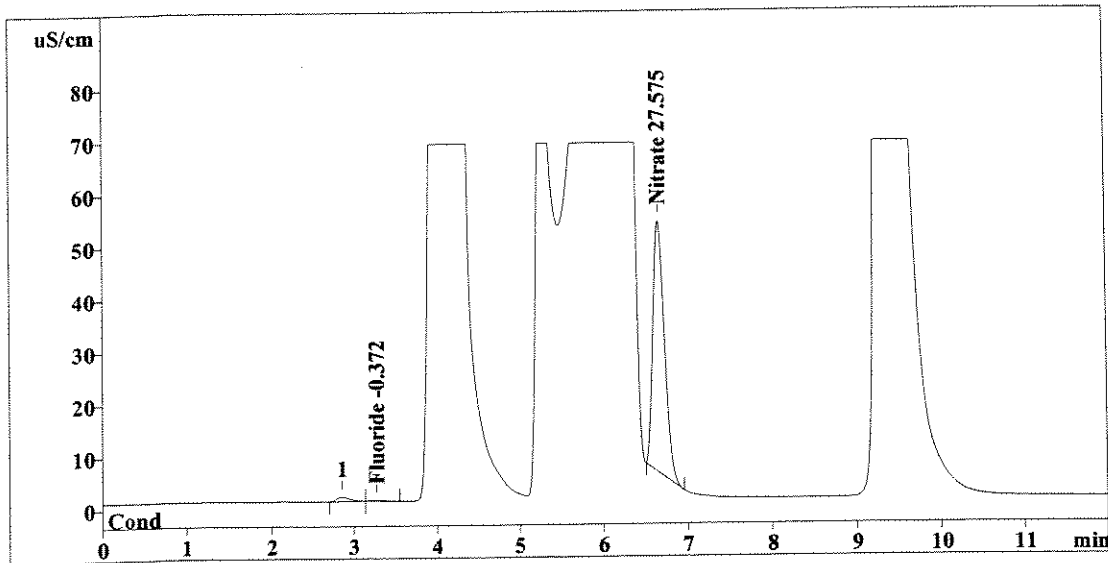
Method 300.0/9056

Report date: 7/2/2008 16:30:32
 Printed by: User
 Ident: 1114419
 Analysis from: 7/2/2008 16:18:34
 File: S7021618.CHW

Last save: 7/2/2008 16:30:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37763
 SAMPLE: CBNNS
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.28	1.411	-0.372	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.65	455.914	27.575	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	457.325	27.948	

Sample 1140
7/2/08

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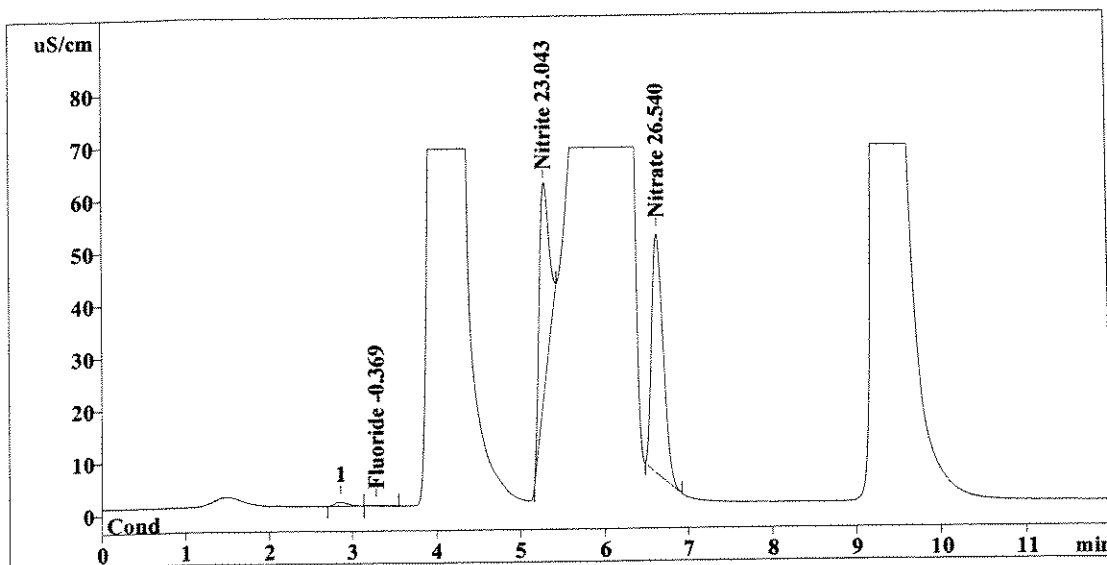
Method 300.0/9056

Report date: 7/2/2008 16:44:38
 Printed by: User
 Ident: 1114420
 Analysis from: 7/2/2008 16:32:40
 File: S7021632.CHW

Last save: 7/2/2008 16:44:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37764
 SAMPLE: CBNNS
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.28	1.448	-0.369	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.27	313.814	23.043	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.63	438.693	26.540	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	753.955	49.952	

Handwritten notes:
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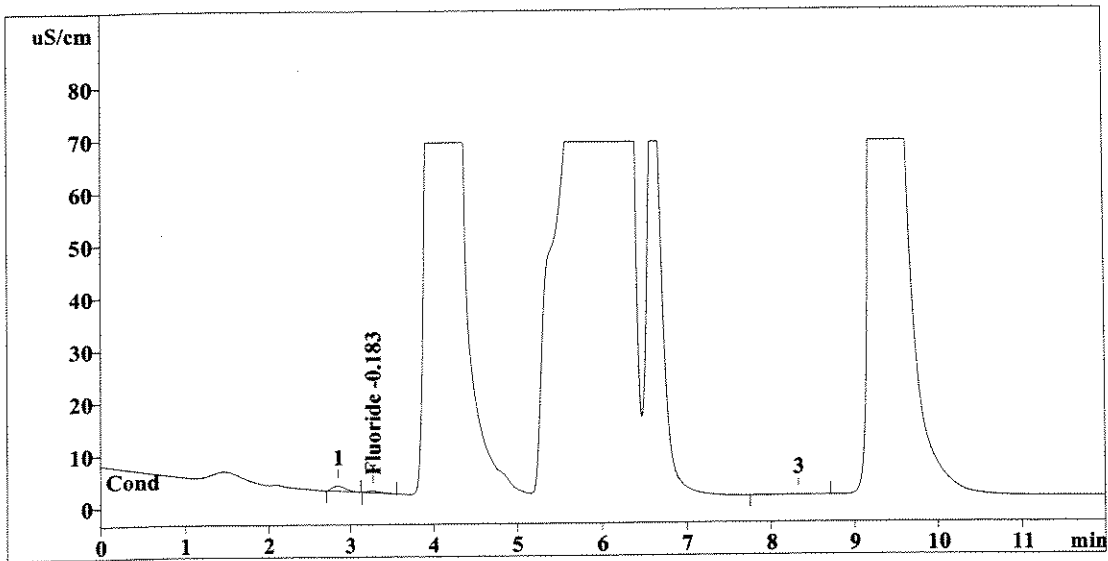
Method 300.0/9056

Report date: 7/2/2008 16:58:44
 Printed by: User
 Ident: 1114421
 Analysis from: 7/2/2008 16:46:46
 File: S7021646.CHW

Last save: 7/2/2008 16:58:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37765
 SAMPLE: CBNNS
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.27	3.474	-0.183	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	3.474	0.183	

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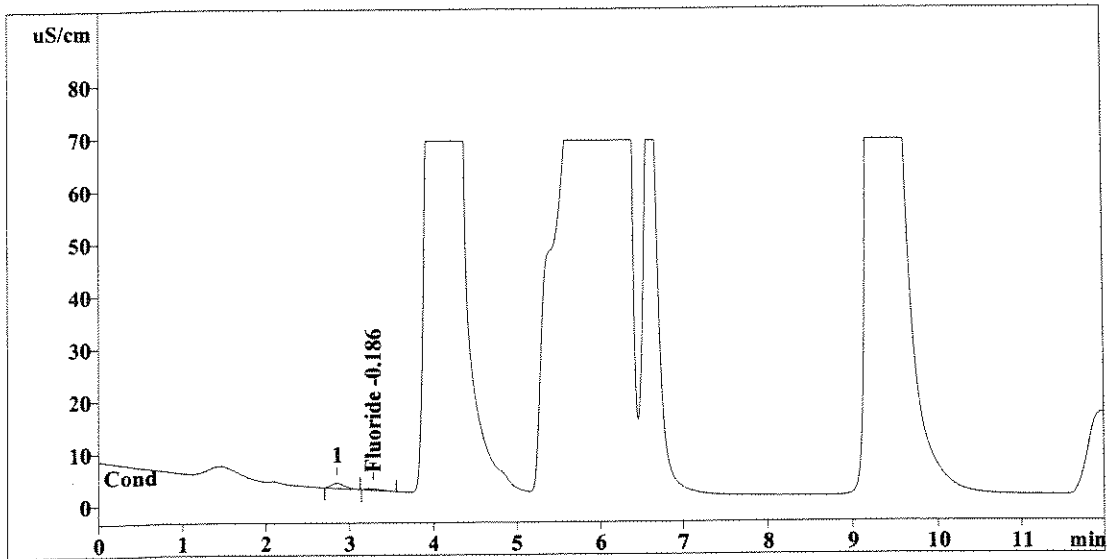
Method 300.0/9056

Report date: 7/2/2008 17:12:50
 Printed by: User
 Ident: 1114421 DUP
 Analysis from: 7/2/2008 17:00:52
 File: S7021700.CHW

Last save: 7/2/2008 17:12:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37766
 SAMPLE: CBNNS
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.27	3.444	-0.186	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	3.444	0.186	

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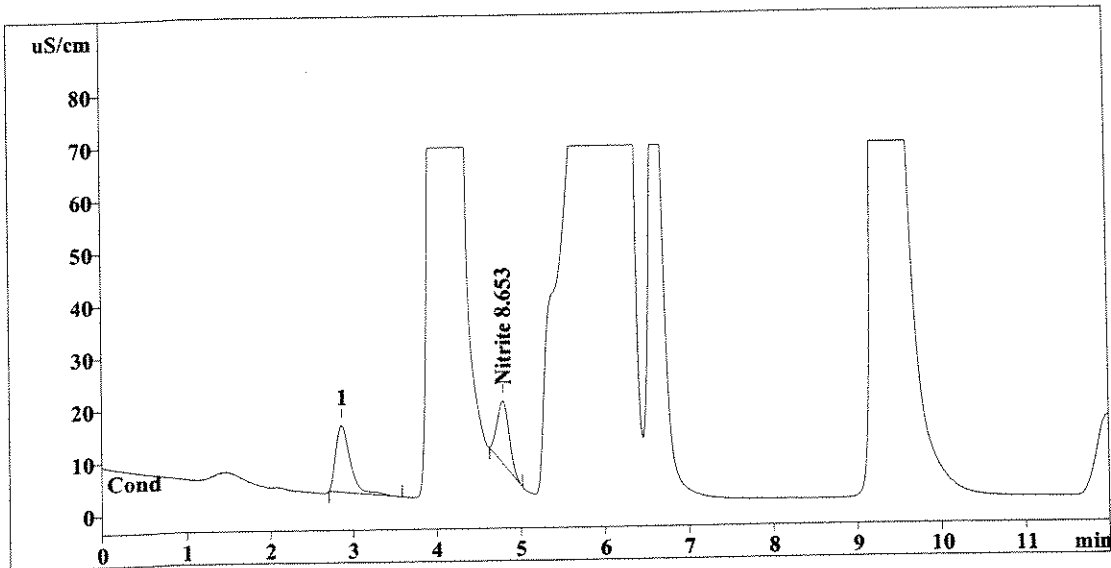
Method 300.0/9056

Report date: 7/2/2008 17:26:55
 Printed by: User
 Ident: 1114421 SPK
 Analysis from: 7/2/2008 17:14:58
 File: S7021714.CHW

Last save: 7/2/2008 17:26:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37767
 SAMPLE: CBNNS
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.79	118.299	8.653	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	118.299	8.653	

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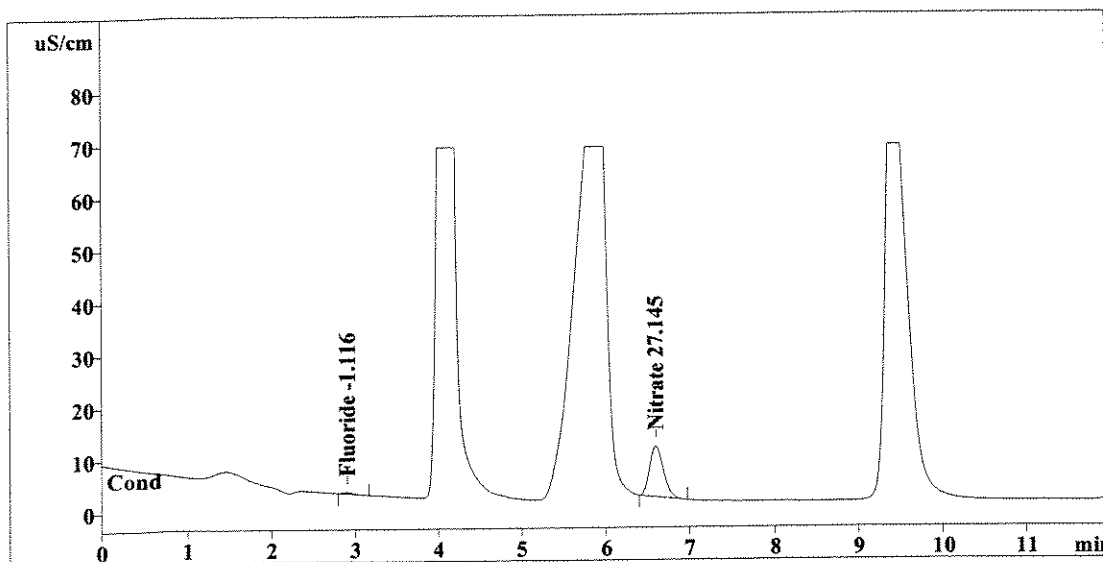
Method 300.0/9056

Report date: 7/2/2008 17:41:02
 Printed by: User
 Ident: 1114419
 Analysis from: 7/2/2008 17:29:04
 File: S7021729.CHW

Last save: 7/2/2008 17:41:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37768
 SAMPLE: CBNNS
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	2.429	-1.116	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.60	110.143	27.145	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	112.571	28.261	

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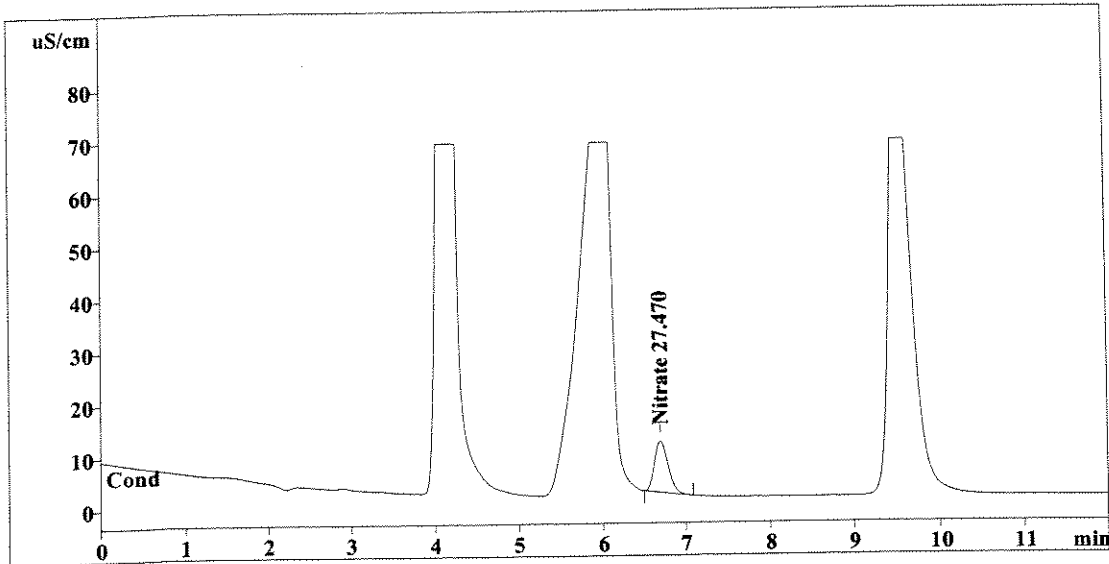
Method 300.0/9056

Report date: 7/2/2008 17:55:07
 Printed by: User
 Ident: 1114420
 Analysis from: 7/2/2008 17:43:09
 File: S7021743.CHW

Last save: 7/2/2008 17:55:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37769
 SAMPLE: CBNNS
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.70	111.492	27.470	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	111.492	27.470	

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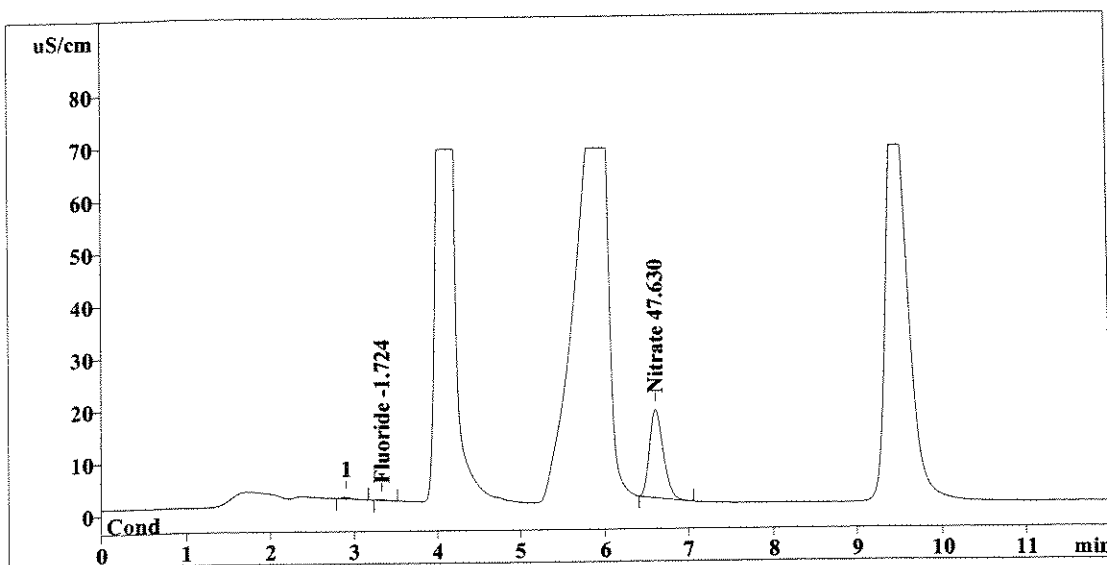
Method 300.0/9056

Report date: 7/2/2008 18:09:14
 Printed by: User
 Ident: 1114421
 Analysis from: 7/2/2008 17:57:16
 File: S7021757.CHW

Last save: 7/2/2008 18:09:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37770
 SAMPLE: CBNNS
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.32	0.774	-1.724	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.61	195.322	47.630	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	196.096	49.354	

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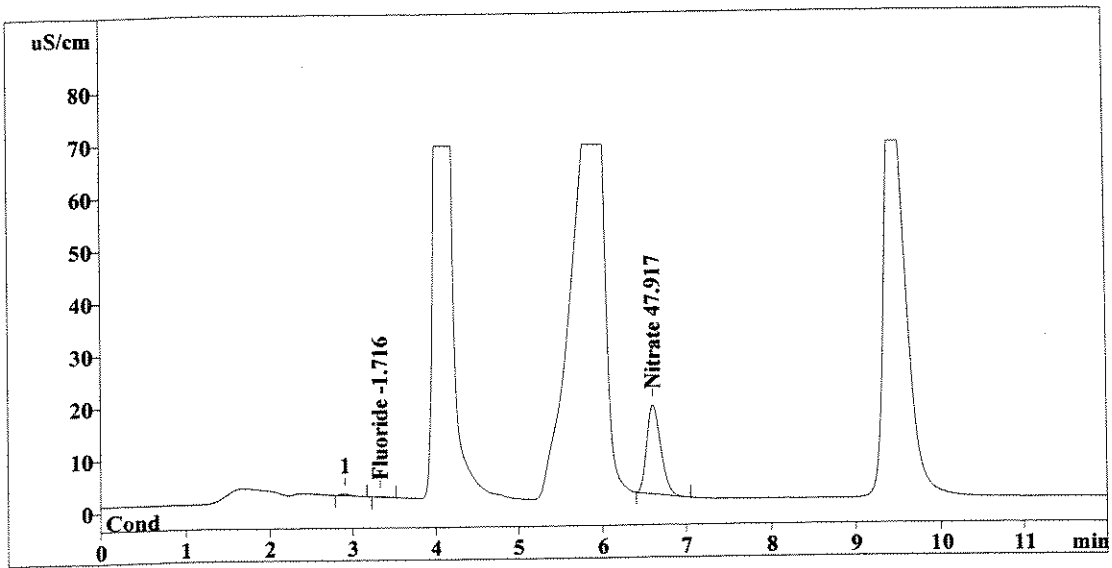
Method 300.0/9056

Report date: 7/2/2008 18:23:20
 Printed by: User
 Ident: 1114421 DUP
 Analysis from: 7/2/2008 18:11:22
 File: S7021811.CHW

Last save: 7/2/2008 18:23:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37771
 SAMPLE: CBNNS
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.32	0.794	-1.716	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.61	196.514	47.917	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	197.308	49.633	

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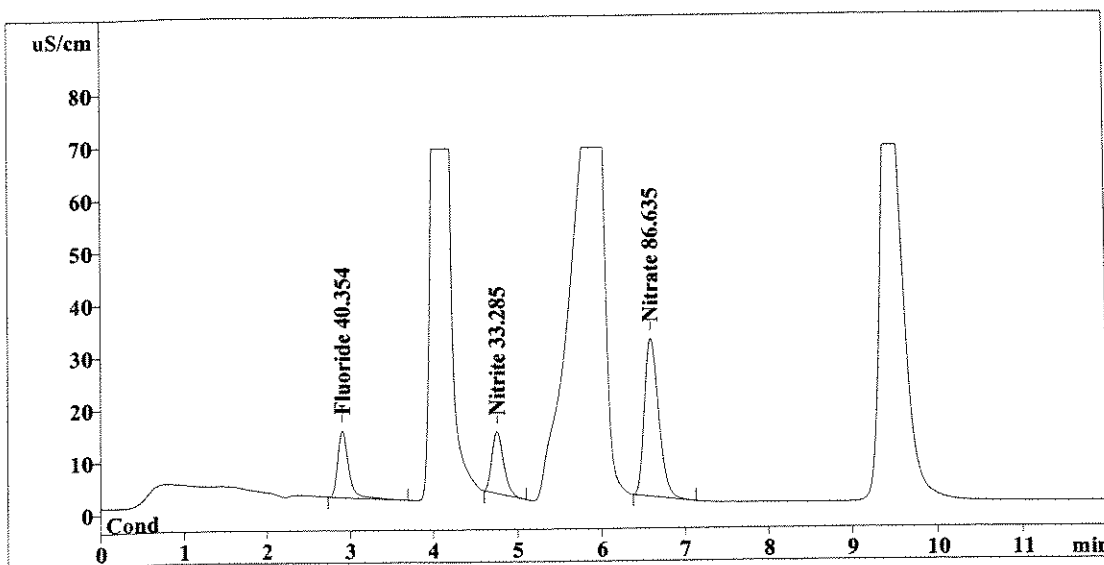
Method 300.0/9056

Report date: 7/2/2008 18:37:26
 Printed by: User
 Ident: 1114421 SPK
 Analysis from: 7/2/2008 18:25:28
 File: S7021825.CHW

Last save: 7/2/2008 18:37:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37772
 SAMPLE: CBNNS
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	115.314	40.354	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.75	113.787	33.285	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.59	357.508	86.635	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	586.608	160.274	

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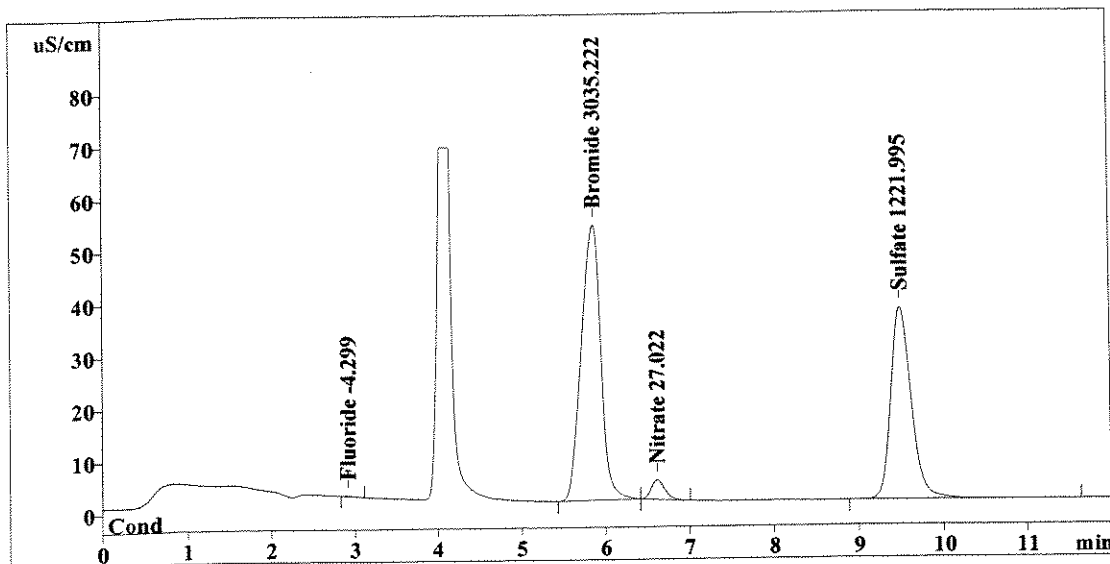
Method 300.0/9056

Report date: 7/2/2008 18:51:32
 Printed by: User
 Ident: 1114419
 Analysis from: 7/2/2008 18:39:34
 File: S7021839.CHW

Last save: 7/2/2008 18:51:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37773
 SAMPLE: CBNNNS
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.784	-4.299	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.85	857.439	3035.222	Bromide
5	6.62	42.215	27.022	Nitrate
6	9.50	607.171	1221.995	Sulfate
<hr/>				
6	12.00	1507.609	4288.538	

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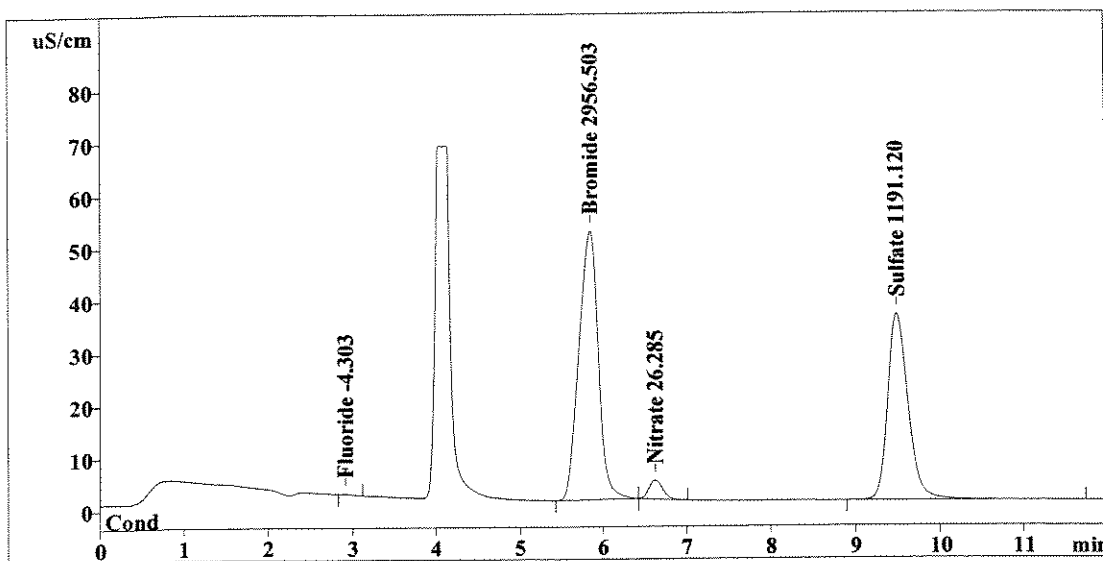
Method 300.0/9056

Report date: 7/2/2008 19:05:38
 Printed by: User
 Ident: 1114420
 Analysis from: 7/2/2008 18:53:40
 File: S7021853.CHW

Last save: 7/2/2008 19:05:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37774
 SAMPLE: CBNNS
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.781	-4.303	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.85	835.183	2956.503	Bromide
5	6.62	40.989	26.285	Nitrate
6	9.50	591.857	1191.120	Sulfate
<hr/>				
6	12.00	1468.810	4178.210	

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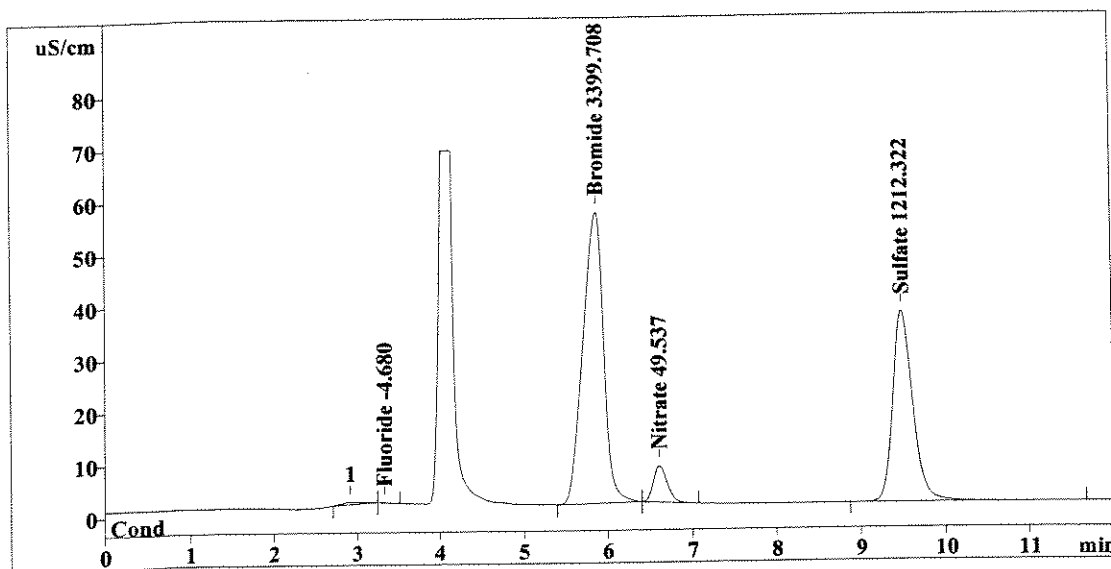
Method 300.0/9056

Report date: 7/2/2008 19:19:43
 Printed by: User
 Ident: 1114421
 Analysis from: 7/2/2008 19:07:45
 File: S7021907.CHW

Last save: 7/2/2008 19:19:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37775
 SAMPLE: CBNNS
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.33	0.370	-4.680	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.86	960.486	3399.708	Bromide
5	6.61	79.663	49.537	Nitrate
6	9.49	602.373	1212.322	Sulfate
6	12.00	1642.892	4666.246	

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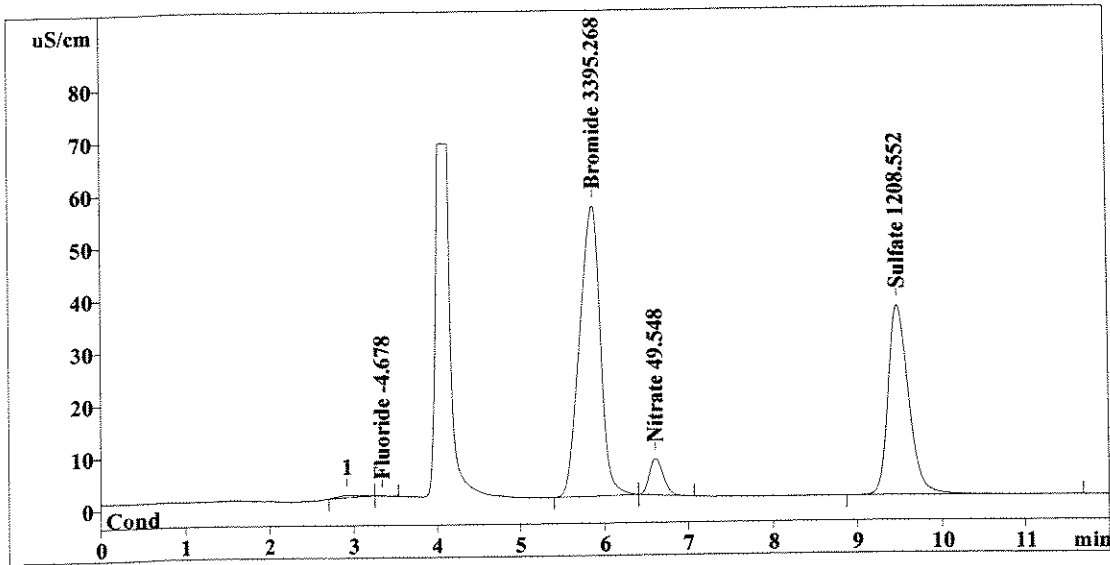
Method 300.0/9056

Report date: 7/2/2008 19:33:49
 Printed by: User
 Ident: 1114421 DUP
 Analysis from: 7/2/2008 19:21:52
 File: S7021921.CHW

Last save: 7/2/2008 19:33:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37776
 SAMPLE: CBNNS
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.33	0.372	-4.678	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.86	959.231	3395.268	Bromide
5	6.61	79.681	49.548	Nitrate
6	9.49	600.503	1208.552	Sulfate
<hr/>				
6	12.00	1639.787	4658.046	

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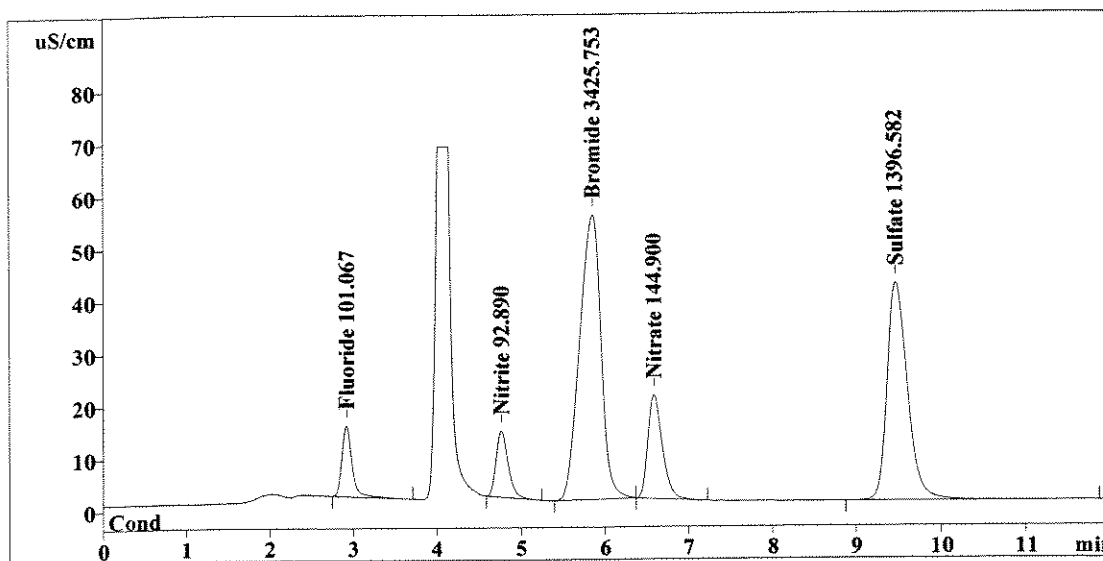
Method 300.0/9056

Report date: 7/2/2008 19:47:56
 Printed by: User
 Ident: 1114421 SPK
 Analysis from: 7/2/2008 19:35:58
 File: S7021935.CHW

Last save: 7/2/2008 19:47:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37777
 SAMPLE: CBNNS
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	115.512	101.067	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.76	126.935	92.890	Nitrite
4	5.86	967.849	3425.753	Bromide
5	6.59	238.274	144.900	Nitrate
6	9.49	693.765	1396.582	Sulfate
<hr/>				
6	12.00	2142.336	5161.192	

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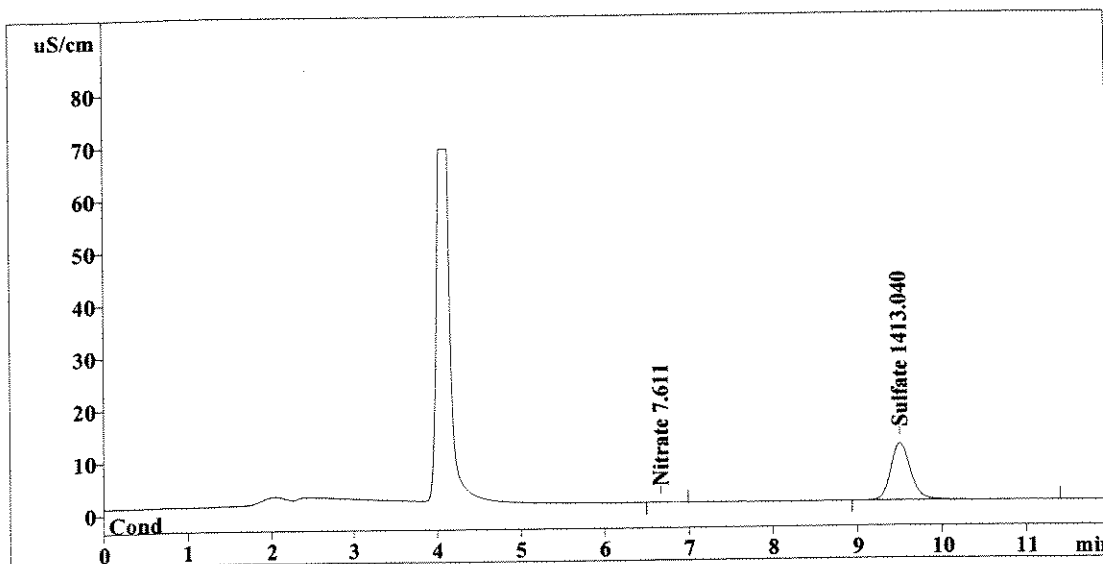
Method 300.0/9056

Report date: 7/2/2008 20:02:01
 Printed by: User
 Ident: 1113696
 Analysis from: 7/2/2008 19:50:03
 File: S7021950.CHW

Last save: 7/2/2008 20:02:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37778
 SAMPLE: CS
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.67	0.435	7.611	Nitrate
6	9.50	176.284	1413.040	Sulfate
6	12.00	176.720	1420.651	

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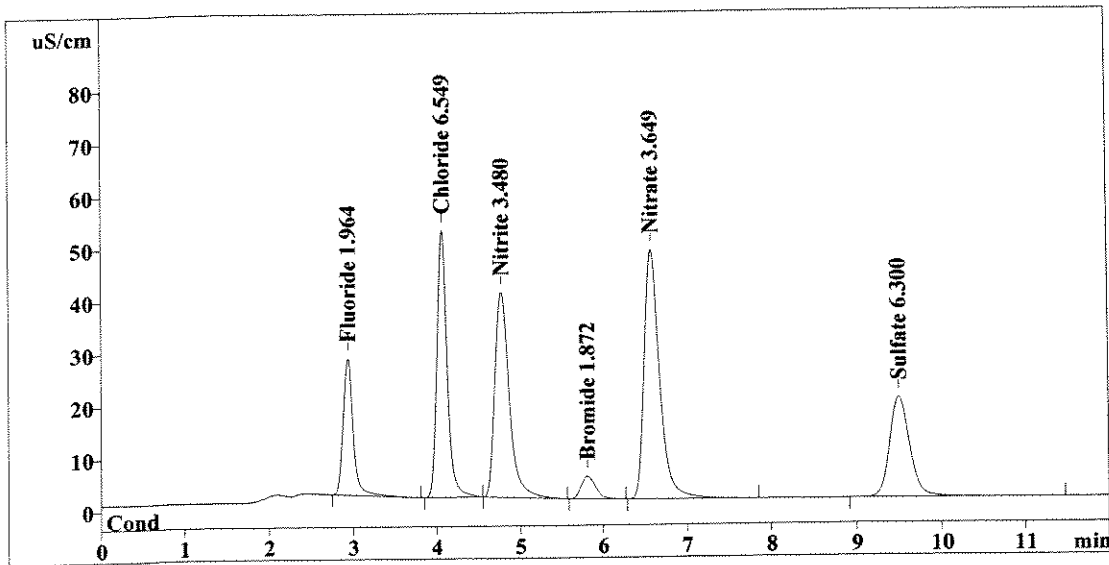
Method 300.0/9056

Report date: 7/2/2008 20:16:08
 Printed by: User
 Ident: CCV
 Analysis from: 7/2/2008 20:04:09
 File: S7022004.CHW

Last save: 7/2/2008 20:16:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37779
 SAMPLE:
 Vial number: 20
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	219.326	1.964	Fluoride
2	4.06	426.847	6.549	Chloride
3	4.76	473.498	3.480	Nitrite
4	5.81	52.238	1.872	Bromide
5	6.57	604.134	3.649	Nitrate
6	9.50	313.547	6.300	Sulfate
<hr/>				
6	12.00	2089.590	23.813	

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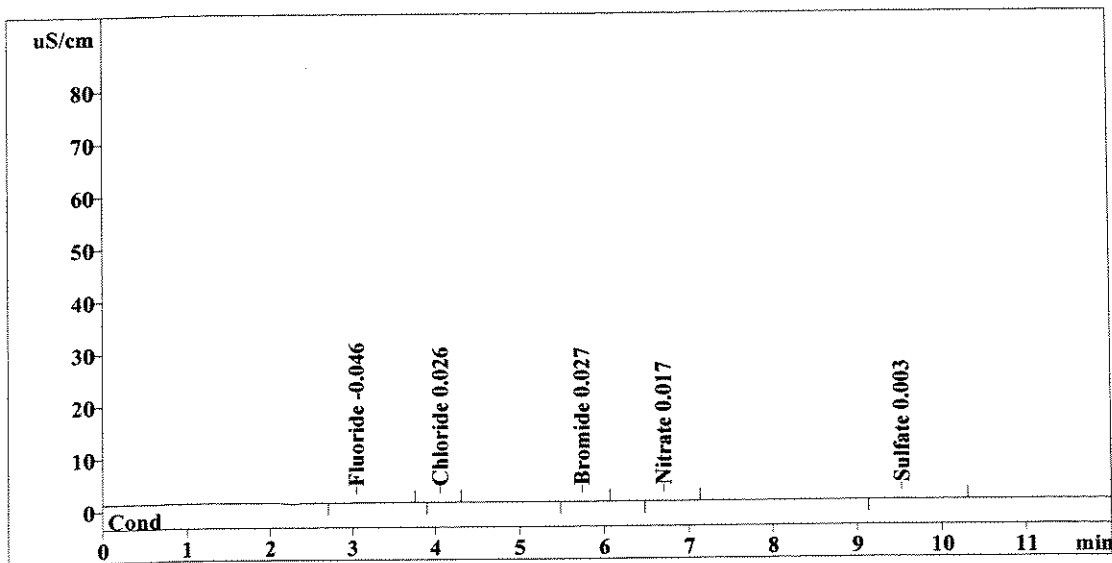
Method 300.0/9056

Report date: 7/2/2008 20:30:13
 Printed by: User
 Ident: CCB
 Analysis from: 7/2/2008 20:18:15
 File: S7022018.CHW

Last save: 7/2/2008 20:30:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37780
 SAMPLE:
 Vial number: 21
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.04	0.444	-0.046	Fluoride
2	4.05	0.194	0.026	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.72	0.083	0.027	Bromide
5	6.70	0.098	0.017	Nitrate
6	9.53	1.201	0.003	Sulfate
6	12.00	2.019	0.119	

Handwritten notes: A checkmark is next to the first row. A vertical arrow points from the first row down to the last row. The date "7/3/08" is written at the bottom right of the table.

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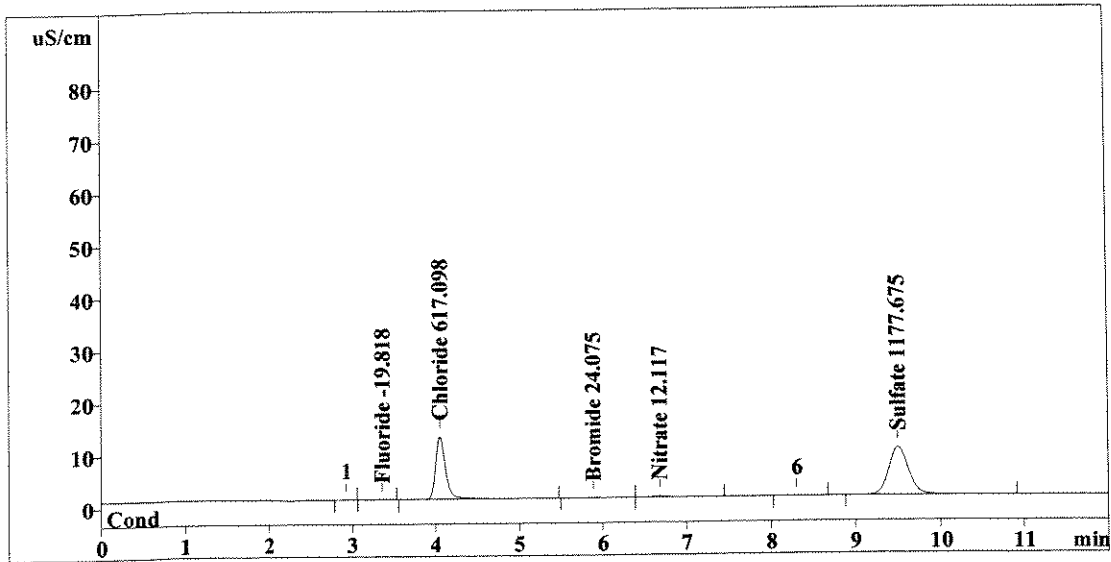
Method 300.0/9056

Report date: 7/2/2008 20:44:19
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 Ident: 1113698
 Analysis from: 7/2/2008 20:32:21
 File: S7022032.CHW

Last save: 7/2/2008 20:44:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37781
 SAMPLE: S
 Vial number: 22
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.071	-19.818	Fluoride
2	4.05	99.389	617.098	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	1.023	24.075	Bromide
5	6.68	2.309	12.117	Nitrate
6	9.50	147.099	1177.675	Sulfate
<hr/>				
6	12.00	249.892	1850.783	

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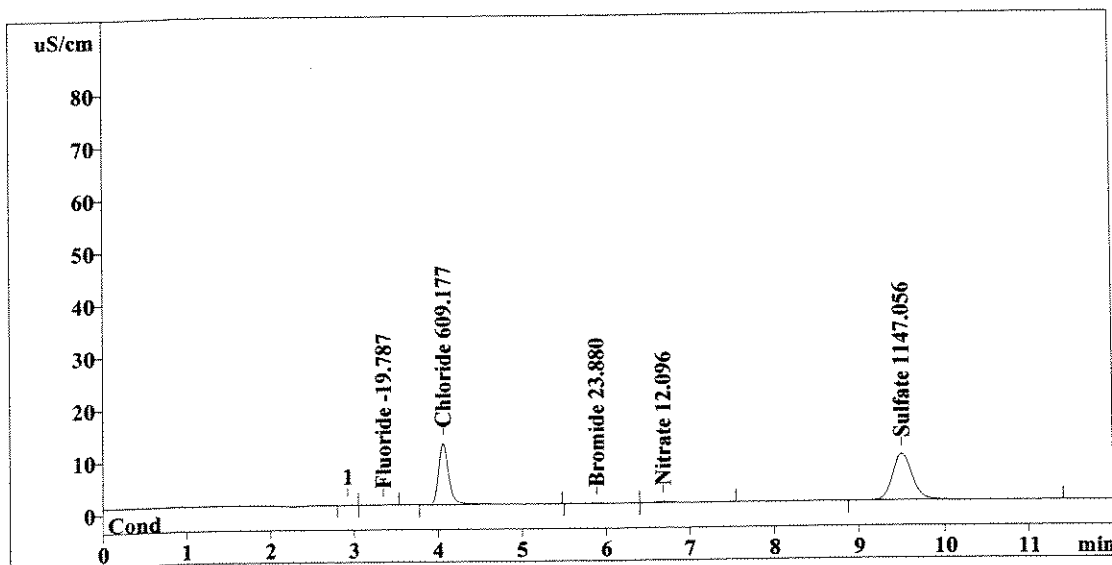
Method 300.0/9056

Report date: 7/2/2008 20:58:25
 Printed by: User
 Ident: 1113699
 Analysis from: 7/2/2008 20:46:27
 File: S7022046.CHW

Last save: 7/2/2008 20:58:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37782
 SAMPLE: S
 Vial number: 23
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.079	-19.787	Fluoride
2	4.06	98.094	609.177	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	1.010	23.880	Bromide
5	6.69	2.301	12.096	Nitrate
6	9.50	143.303	1147.056	Sulfate
6	12.00	244.786	1811.997	

OK
 7/3/08

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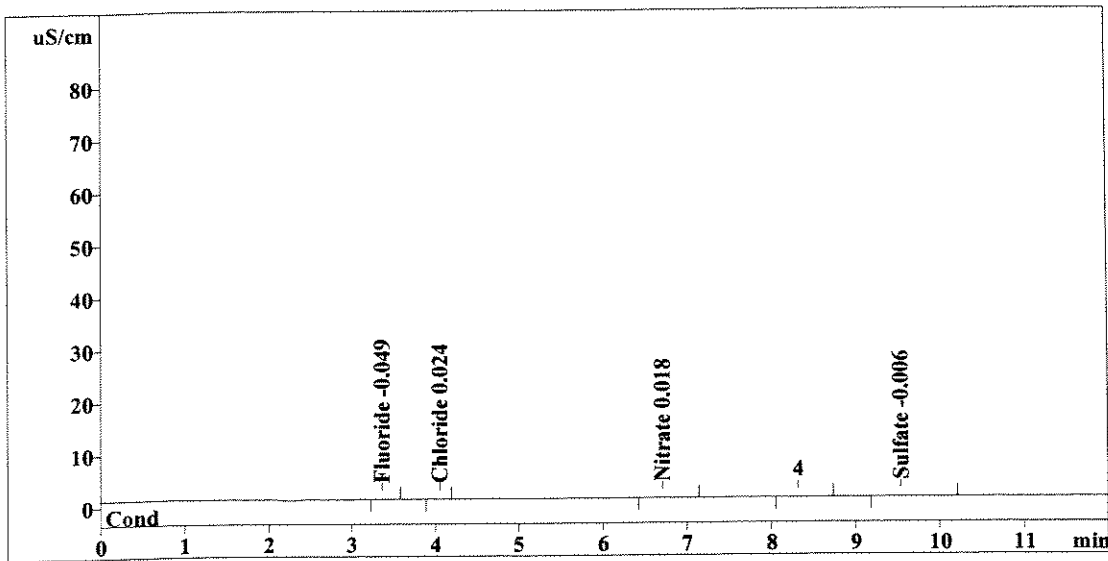
Method 300.0/9056

Report date: 7/2/2008 21:12:31
 Printed by: User
 Ident: METHOD BLANK
 Analysis from: 7/2/2008 21:00:33
 File: S7022100.CHW

Last save: 7/2/2008 21:12:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37783
 SAMPLE: EXTRACTED - CBNNS
 Vial number: 24
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.115	-0.049	Fluoride
2	4.05	0.059	0.024	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.70	0.300	0.018	Nitrate
6	9.54	0.764	-0.006	Sulfate
<hr/>				
6	12.00	1.238	0.098	

Handwritten notes: 'OK' with a downward arrow pointing to the area column, and a signature 'WJG' with the date '7/2/08' below it.

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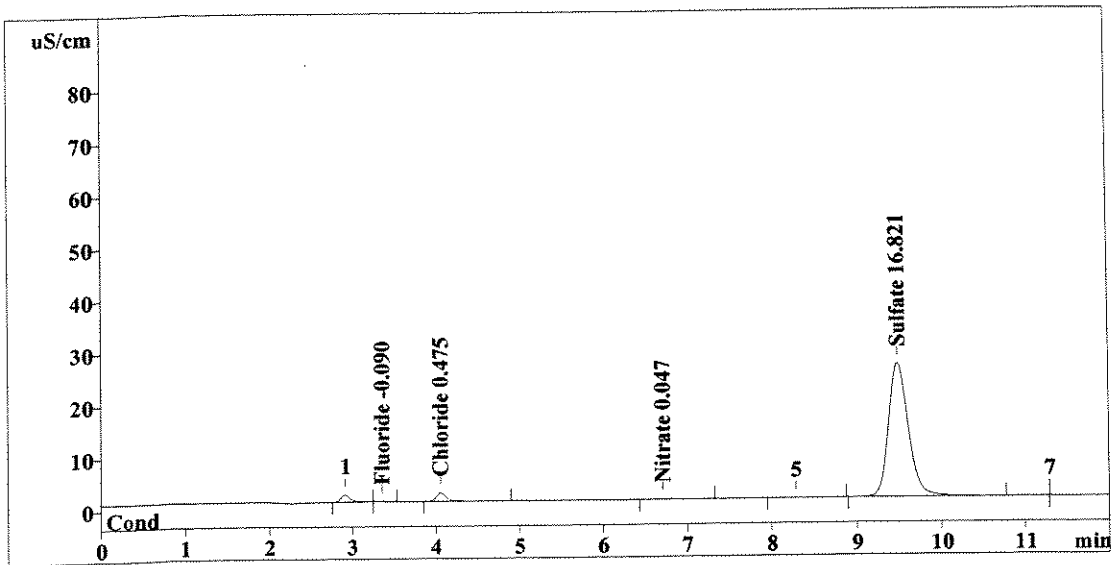
Method 300.0/9056

Report date: 7/2/2008 21:26:37
 Printed by: User
 Ident: 1113250
 Analysis from: 7/2/2008 21:14:39
 File: S7022114.CHW

Last save: 7/2/2008 21:26:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37784
 SAMPLE: EXTRACTED - S
 Vial number: 25
 Volume: 1.0 µL
 Dilution: 2.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.577	-0.090	Fluoride
2	4.05	14.008	0.475	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.71	1.179	0.047	Nitrate
6	9.49	418.224	16.821	Sulfate
6	12.00	433.988	17.433	

OK
 6/23/08

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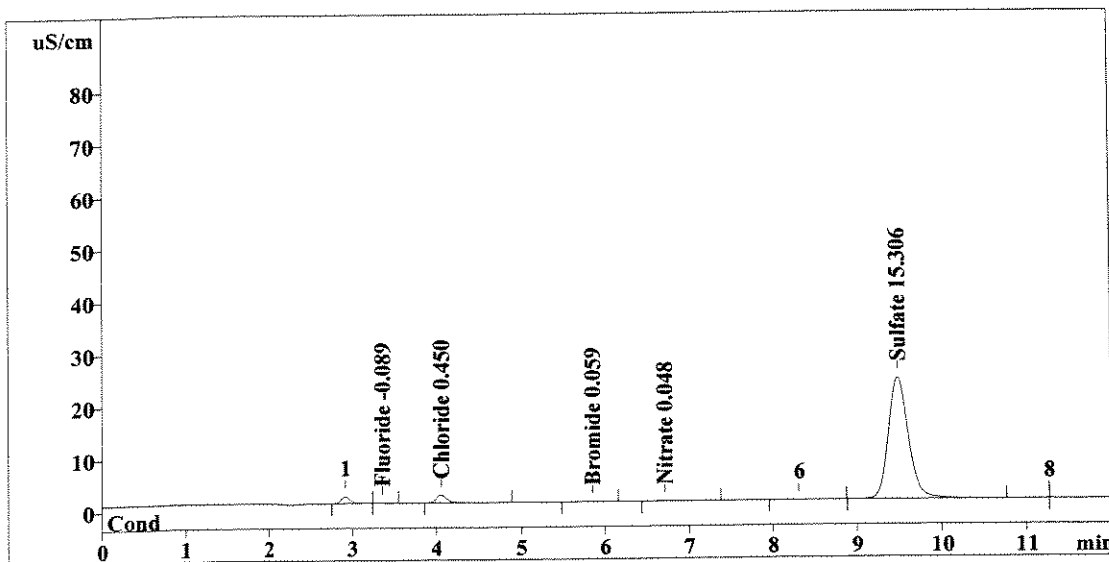
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/2/2008 21:40:43
 Printed by: User
 Ident: 1113250 DUP
 Analysis from: 7/2/2008 21:28:45
 File: S7022128.CHW

Method 300.0/9056

Last save: 7/2/2008 21:40:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37785
 SAMPLE: EXTRACTED - S
 Vial number: 26
 Volume: 1.0 µL
 Dilution: 2.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.614	-0.089	Fluoride
2	4.06	13.199	0.450	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.86	0.149	0.059	Bromide
5	6.71	1.289	0.048	Nitrate
6	9.49	380.660	15.306	Sulfate
6	12.00	395.911	15.952	

OK
7/3/08

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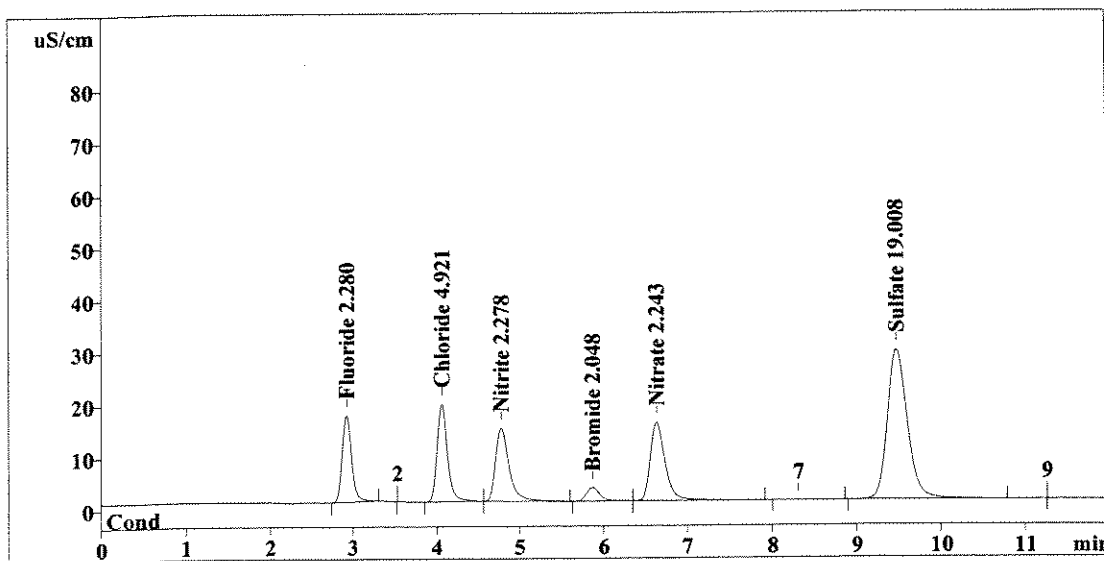
Method 300.0/9056

Report date: 7/2/2008 21:54:49
 Printed by: User
 Ident: 1113250 SPK
 Analysis from: 7/2/2008 21:42:51
 File: S7022142.CHW

Last save: 7/2/2008 21:54:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37786
 SAMPLE: EXTRACTED - S
 Vial number: 27
 Volume: 1.0 µL
 Dilution: 2.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	129.577	2.280	Fluoride
2	4.05	159.424	4.921	Chloride
3	4.77	155.506	2.278	Nitrite
4	5.87	28.277	2.048	Bromide
5	6.63	183.825	2.243	Nitrate
6	9.48	472.451	19.008	Sulfate
6	12.00	1129.059	32.778	

OK
7/3/08

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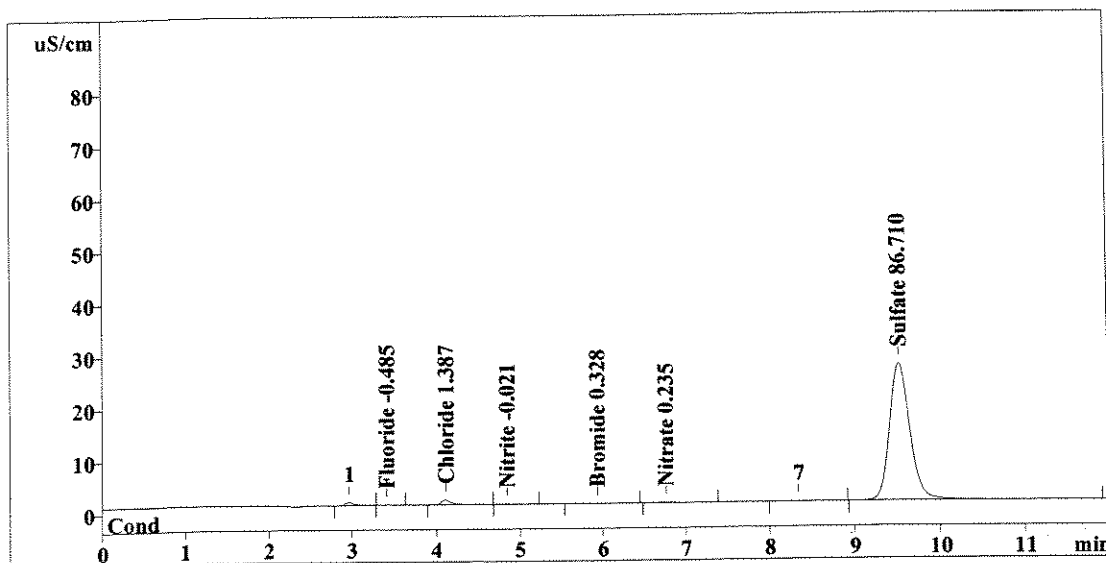
Method 300.0/9056

Report date: 7/2/2008 22:08:55
 Printed by: User
 Ident: 1113254
 Analysis from: 7/2/2008 21:56:57
 File: S7022156.CHW

Last save: 7/2/2008 22:08:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37787
 SAMPLE: EXTRACTED - S
 Vial number: 28
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.41	0.181	-0.485	Fluoride
2	4.11	7.554	1.387	Chloride
3	4.84	0.436	-0.021	Nitrite
4	5.93	0.249	0.328	Bromide
5	6.76	1.176	0.235	Nitrate
6	9.52	431.148	86.710	Sulfate
6	12.00	440.743	89.167	

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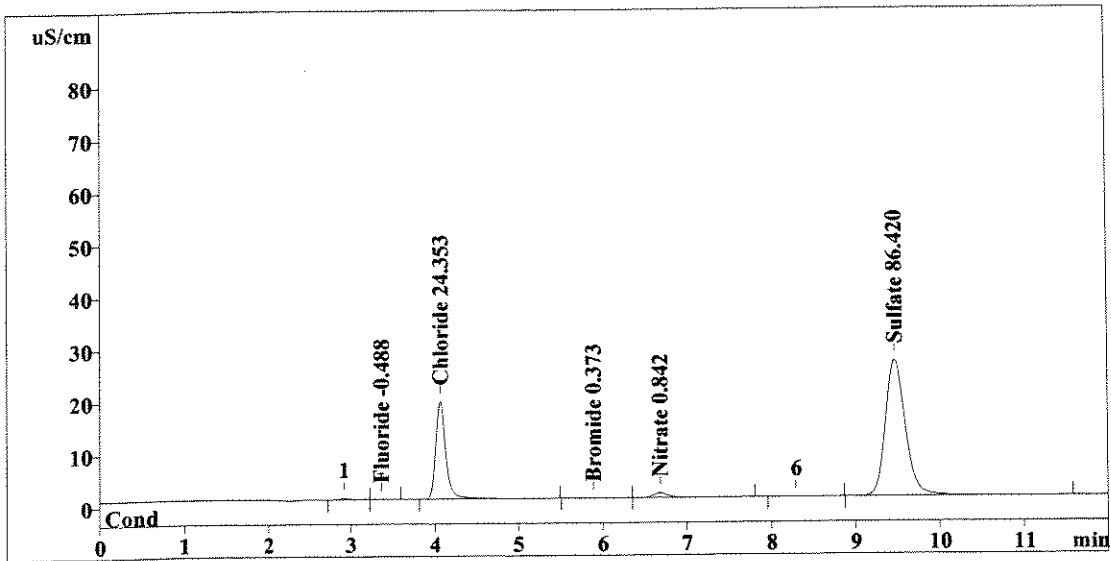
Method 300.0/9056

Report date: 7/2/2008 22:23:01
 Printed by: User
 Ident: 1113255
 Analysis from: 7/2/2008 22:11:02
 File: S7022211.CHW

Last save: 7/2/2008 22:23:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37788
 SAMPLE: EXTRACTED - CS
 Vial number: 29
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.152	-0.488	Fluoride
2	4.06	157.768	24.353	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	0.375	0.373	Bromide
5	6.68	11.276	0.842	Nitrate
6	9.47	429.708	86.420	Sulfate
6	12.00	599.280	112.476	

OK
OK
CM
7/2/08

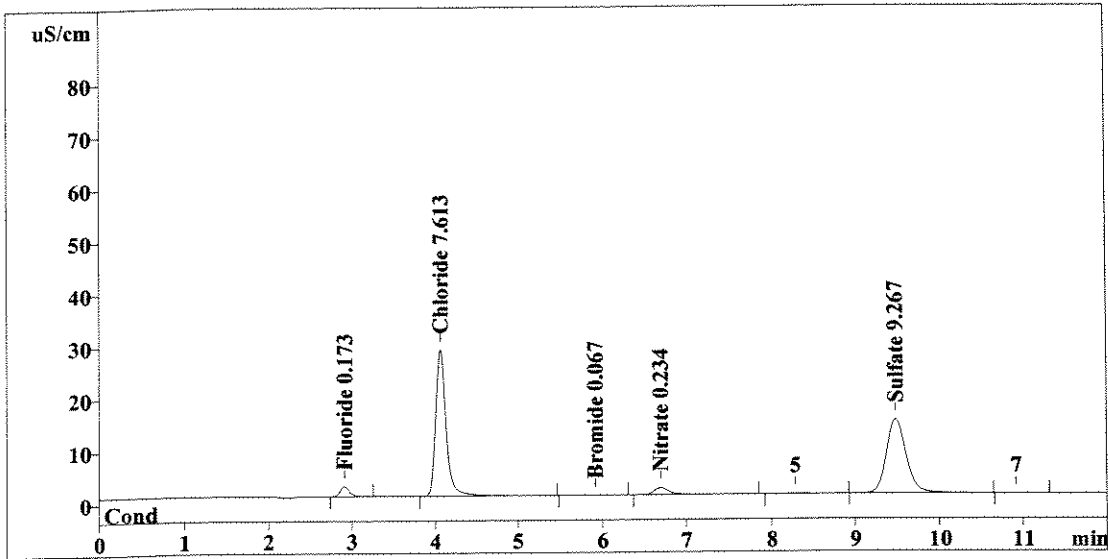
This report has been created by IC Net
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Report date: 7/2/2008 22:37:16
 Printed by: User
 Ident: 1113256
 Analysis from: 7/2/2008 22:25:08
 File: S7022225.CHW

Last save: 7/2/2008 22:37:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37789
 SAMPLE: EXTRACTED - C
 Vial number: 30
 Volume: 1.0 µL
 Dilution: 2.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	14.900	0.173	Fluoride
2	4.06	247.465	7.613	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.271	0.067	Bromide
5	6.70	16.728	0.234	Nitrate
6	9.48	230.884	9.267	Sulfate
6	12.00	510.248	17.354	

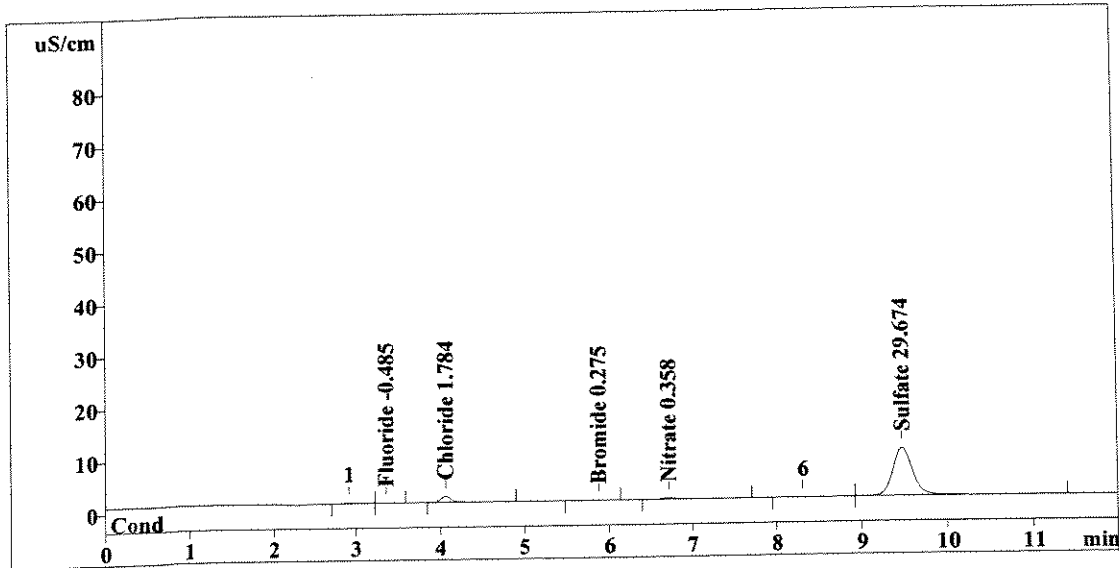
This report has been created by IC Net
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Report date: 7/2/2008 22:51:52
 Printed by: User
 Ident: 1113257
 Analysis from: 7/2/2008 22:39:54
 File: S7022239.CHW

Last save: 7/2/2008 22:51:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37790
 SAMPLE: EXTRACTED - S
 Vial number: 31
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.180	-0.485	Fluoride
2	4.06	10.148	1.784	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	0.100	0.275	Bromide
5	6.71	3.225	0.358	Nitrate
6	9.48	148.249	29.674	Sulfate
6	12.00	161.902	32.576	

OK
7/3/08

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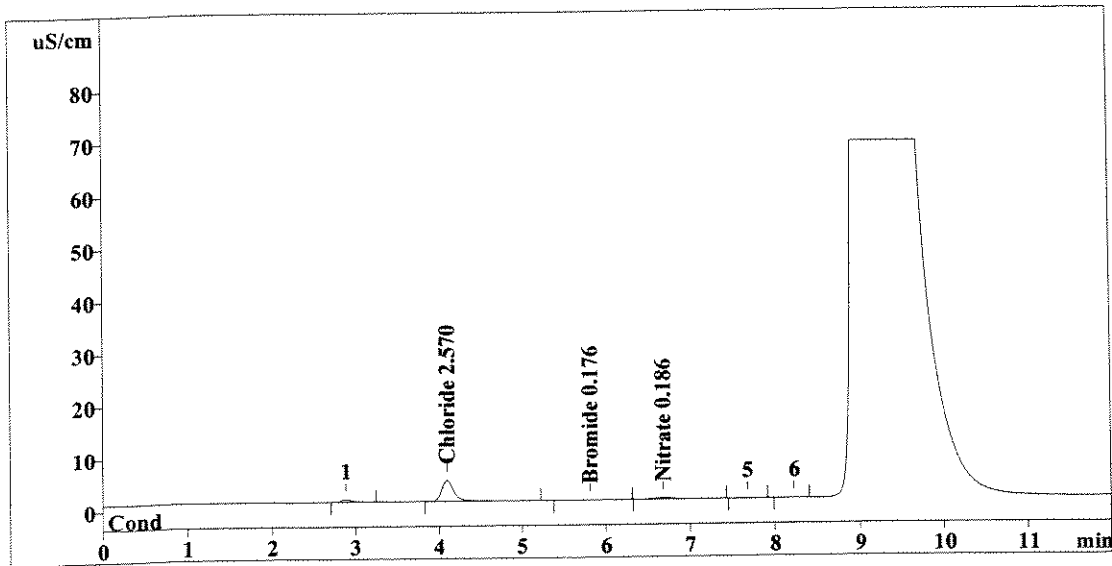
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/2/2008 23:05:58
 Printed by: User
 Ident: 1113258
 Analysis from: 7/2/2008 22:54:00
 File: S7022254.CHW

Method 300.0/9056

Last save: 7/2/2008 23:05:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37791
 SAMPLE: EXTRACTED - NO3 TO CONFIRM PREVIOUS
 Vial number: 32
 Volume: 1.0 µL
 Dilution: 4.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.09	40.496	2.570	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.81	0.566	0.176	Bromide
5	6.68	5.009	0.186	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	46.071	2.932	

OK

6/23/08

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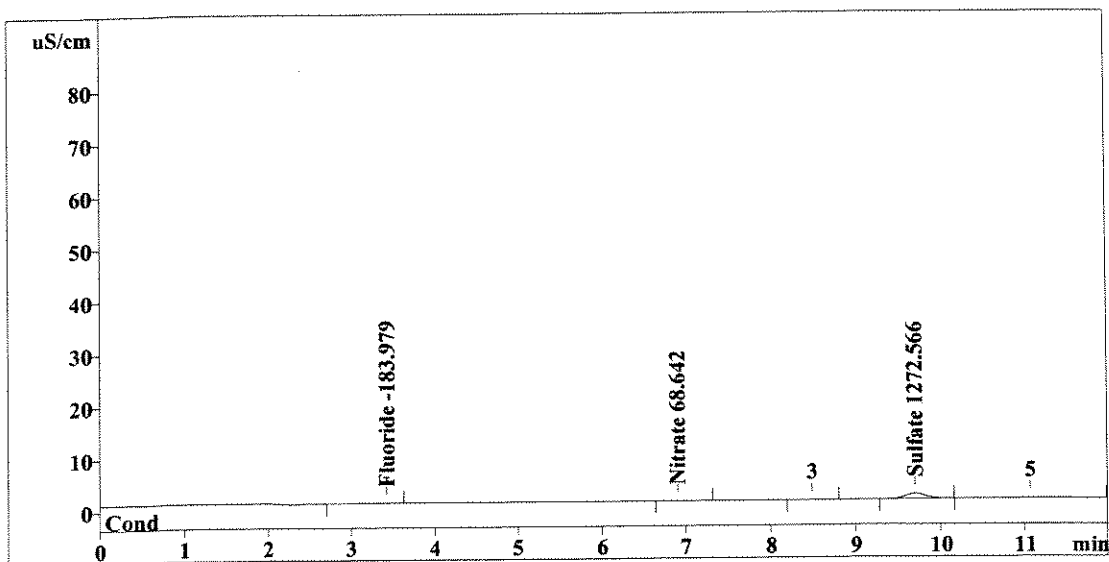
Method 300.0/9056

Report date: 7/2/2008 23:20:04
 Printed by: User
 Ident: 1113258
 Analysis from: 7/2/2008 23:08:06
 File: S7022308.CHW

Last save: 7/2/2008 23:20:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37792
 SAMPLE: EXTRACTED - S
 Vial number: 33
 Volume: 1.0 µL
 Dilution: 4000.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.42	0.458	-183.979	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.90	0.125	68.642	Nitrate
6	9.70	16.849	1272.566	Sulfate
6	12.00	17.432	1525.187	

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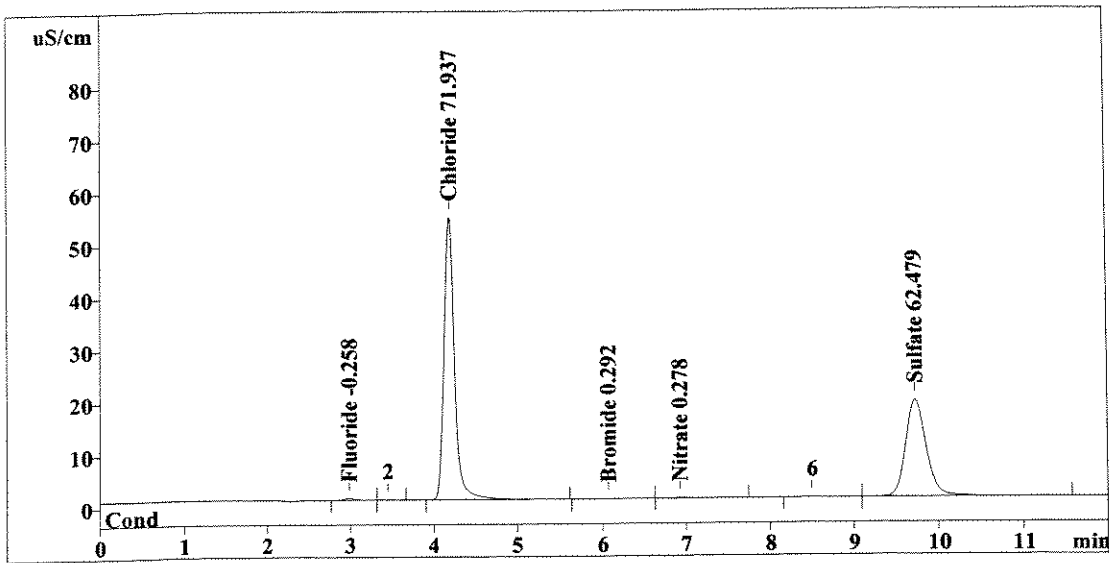
Method 300.0/9056

Report date: 7/2/2008 23:34:10
 Printed by: User
 Ident: 1113259
 Analysis from: 7/2/2008 23:22:11
 File: S7022322.CHW

Last save: 7/2/2008 23:34:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37793
 SAMPLE: EXTRACTED - CS
 Vial number: 34
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.98	2.657	-0.258	Fluoride
2	4.18	469.017	71.937	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.07	0.147	0.292	Bromide
5	6.92	1.892	0.278	Nitrate
6	9.73	310.962	62.479	Sulfate
6	12.00	784.675	135.244	

Handwritten notes: 'OK' next to Chloride, 'OK' next to Sulfate, and a signature 'CWT 7/3/08' over the last row.

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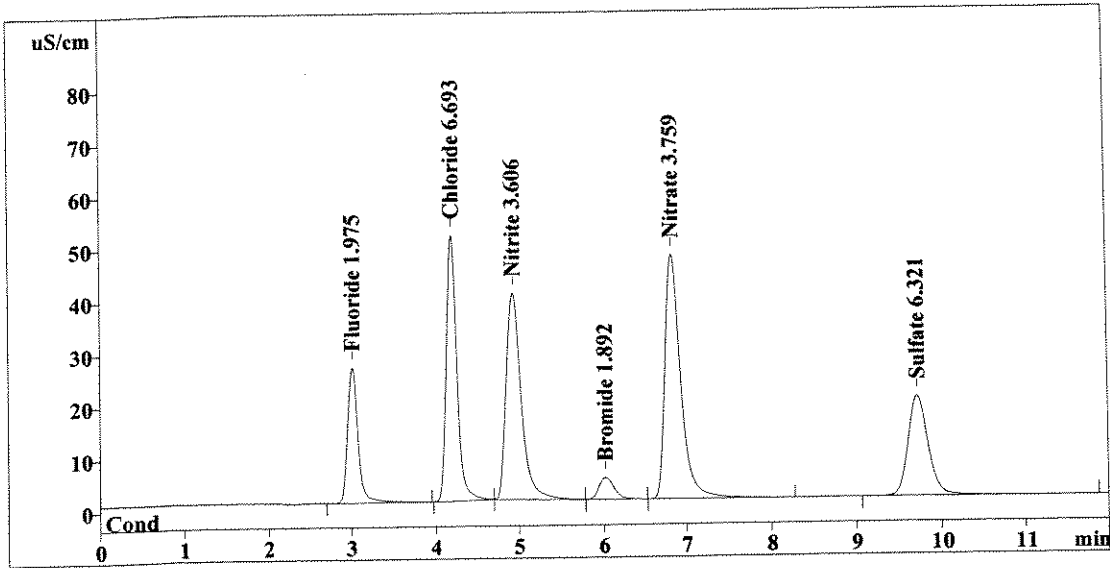
Method 300.0/9056

Report date: 7/2/2008 23:48:15
 Printed by: User
 Ident: CCV
 Analysis from: 7/2/2008 23:36:17
 File: S7022336.CHW

Last save: 7/2/2008 23:48:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37794
 SAMPLE:
 Vial number: 35
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.01	220.488	1.975	Fluoride
2	4.19	436.255	6.693	Chloride
3	4.92	490.697	3.606	Nitrite
4	6.02	52.799	1.892	Bromide
5	6.82	622.490	3.759	Nitrate
6	9.72	314.608	6.321	Sulfate
<hr/>				
6	12.00	2137.337	24.246	

Handwritten notes: "OK" with a checkmark next to the first three rows, and a downward arrow pointing from the first three rows to the last row. A signature and date "7/3/08" are written below the last row.

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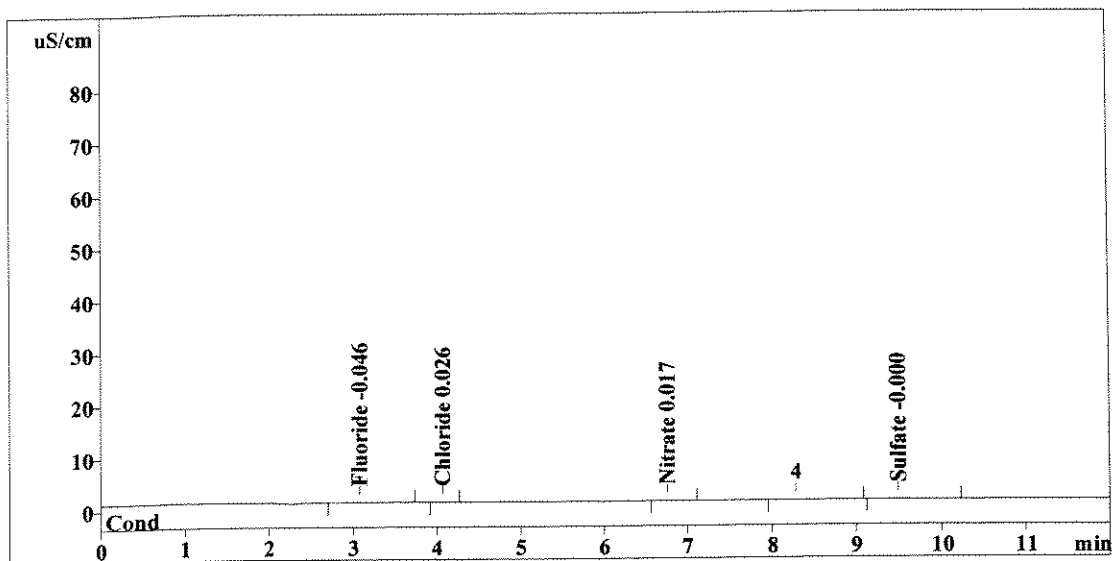
Method 300.0/9056

Report date: 7/3/2008 00:02:21
 Printed by: User
 Ident: CCB
 Analysis from: 7/2/2008 23:50:23
 File: S7022350.CHW

Last save: 7/3/2008 00:02:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37795
 SAMPLE:
 Vial number: 36
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.05	0.432	-0.046	Fluoride
2	4.07	0.168	0.026	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.76	0.055	0.017	Nitrate
6	9.49	1.068	-0.000	Sulfate
<hr/>				
6	12.00	1.724	0.089	

Handwritten notes: A checkmark is next to the first row. A vertical arrow points from the Nitrate row down to the final row. The date '7/3/08' is written at the bottom of the arrow.

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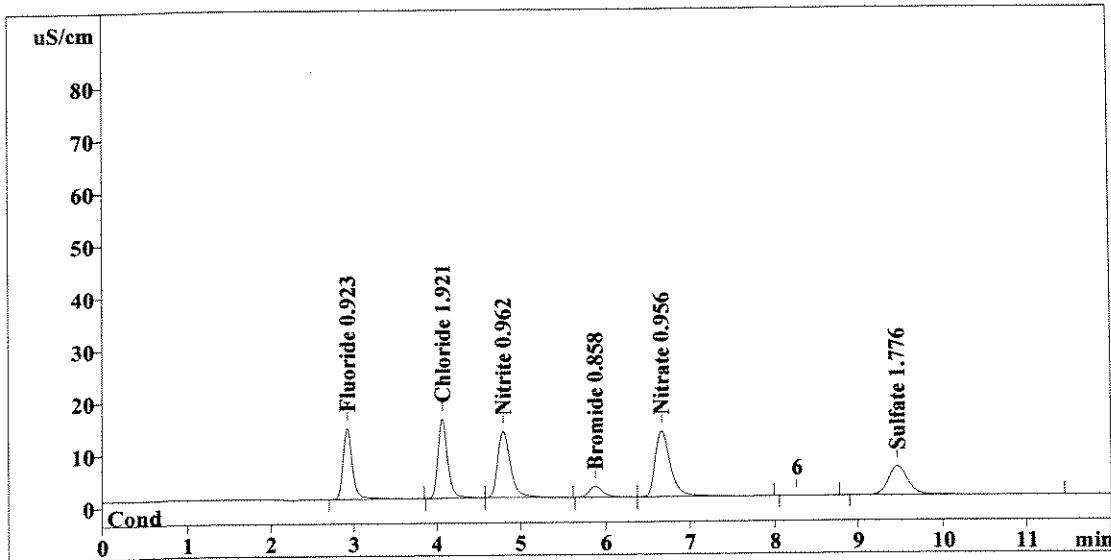
Method 300.0/9056

Report date: 7/3/2008 00:16:27
 Printed by: User
 Ident: LCS
 Analysis from: 7/3/2008 00:04:29
 File: S7030004.CHW

Last save: 7/3/2008 00:16:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37796
 SAMPLE:
 Vial number: 37
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	105.982	0.923	Fluoride
2	4.06	124.127	1.921	Chloride
3	4.79	131.388	0.962	Nitrite
4	5.87	23.586	0.858	Bromide
5	6.67	156.297	0.956	Nitrate
6	9.47	89.144	1.776	Sulfate
6	12.00	630.525	7.396	

OK
 ↓
 OUT LOW
 OK
 OUT LOW
 7/3/08

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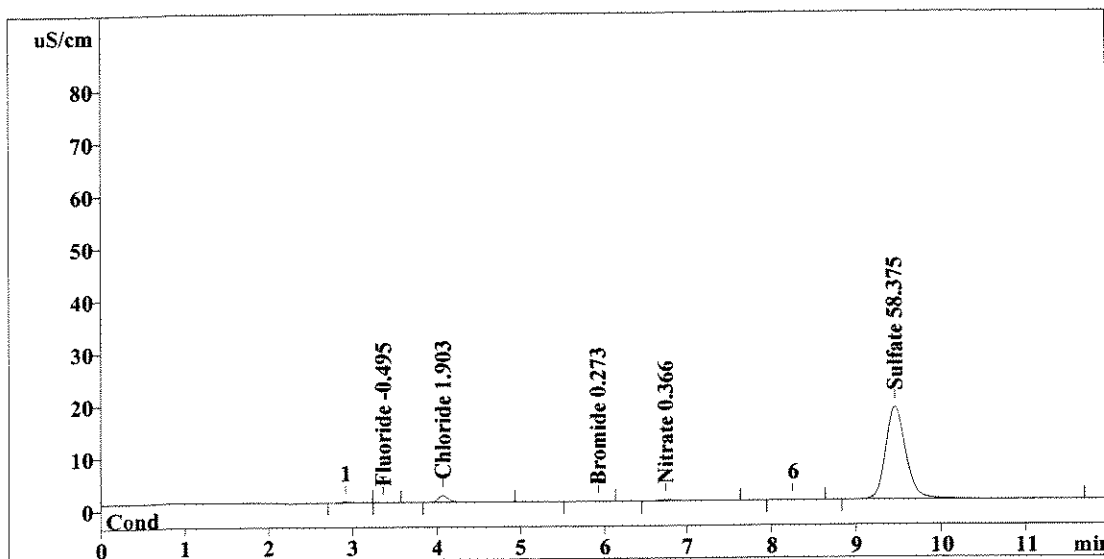
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/3/2008 00:30:33
 Printed by: User
 Ident: 1113262
 Analysis from: 7/3/2008 00:18:35
 File: S7030018.CHW

Method 300.0/9056

Last save: 7/3/2008 00:30:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37797
 SAMPLE: EXTRACTED - S
 Vial number: 38
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.073	-0.495	Fluoride
2	4.07	10.926	1.903	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.095	0.273	Bromide
5	6.74	3.361	0.366	Nitrate
6	9.47	290.607	58.375	Sulfate
6	12.00	305.063	61.413	

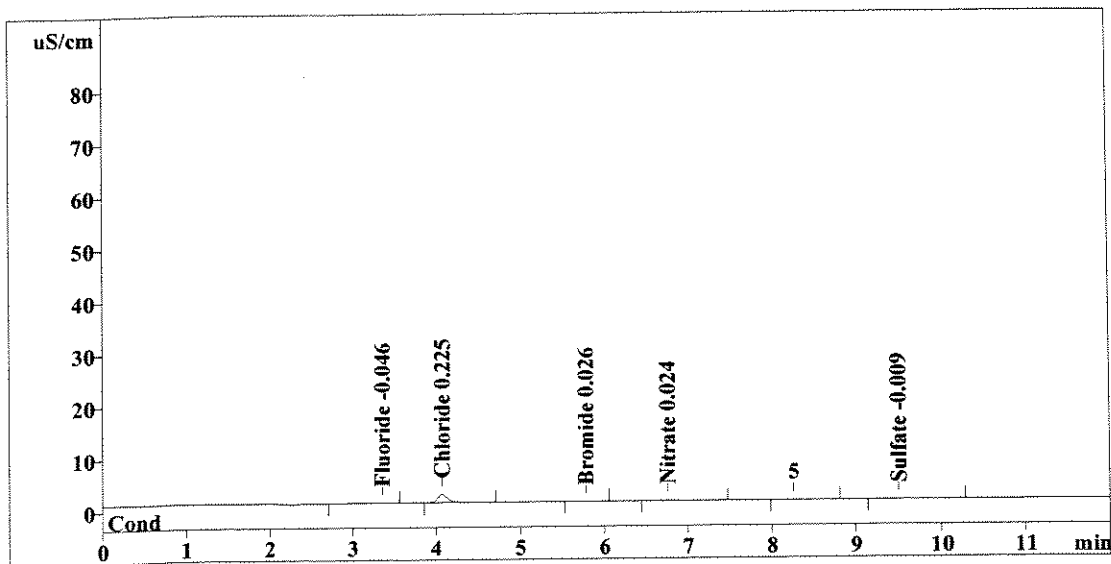
This report has been created by IC Net
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Report date: 7/3/2008 00:44:39
 Printed by: User
 Ident: METHOD BLANK *6/24*
 Analysis from: 7/3/2008 00:32:41
 File: S7030032.CHW

Last save: 7/3/2008 00:44:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37798
 SAMPLE: EXTRACTED - S
 Vial number: 39
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.417	-0.046	Fluoride
2	4.07	13.197	0.225	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.78	0.060	0.026	Bromide
5	6.76	1.339	0.024	Nitrate
6	9.50	0.634	-0.009	Sulfate
6	12.00	15.647	0.331	

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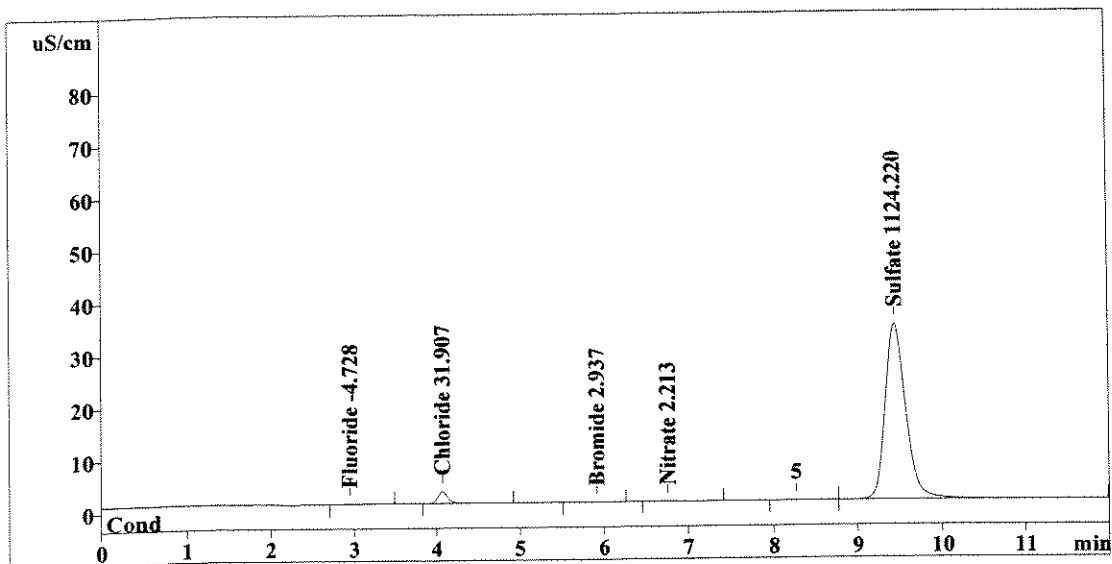
Method 300.0/9056

Report date: 7/3/2008 00:58:45
 Printed by: User
 Ident: 1112363
 Analysis from: 7/3/2008 00:46:46
 File: S7030046.CHW

Last save: 7/3/2008 00:58:45

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37799
 SAMPLE: EXTRACTED - S
 Vial number: 40
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	0.317	-4.728	Fluoride
2	4.07	19.349	31.907	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.152	2.937	Bromide
5	6.76	0.951	2.213	Nitrate
6	9.45	558.676	1124.220	Sulfate
<hr/>				
6	12.00	579.445	1166.005	

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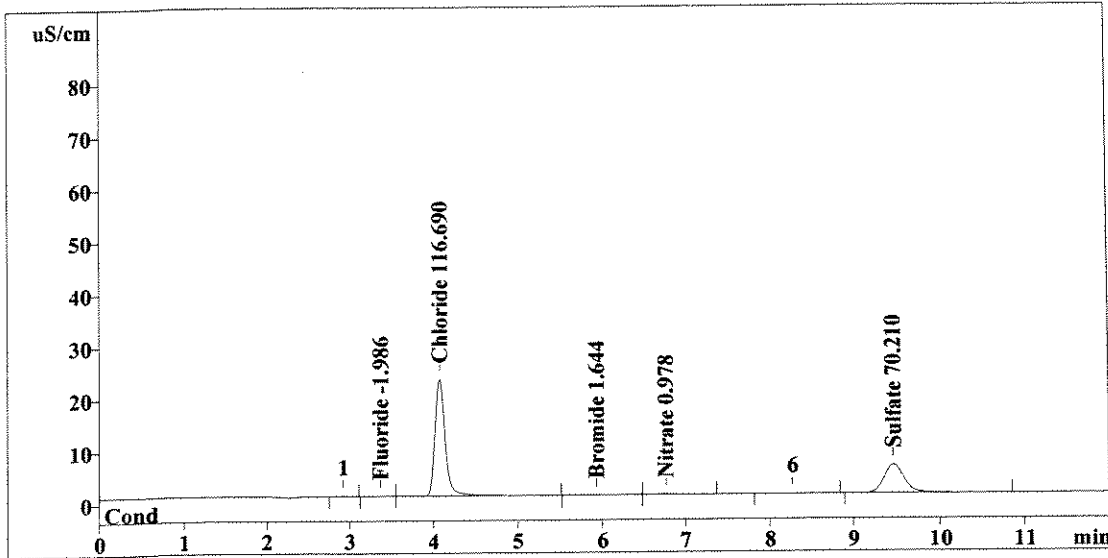
Method 300.0/9056

Report date: 7/3/2008 01:12:50
 Printed by: User
 Ident: 1112365
 Analysis from: 7/3/2008 01:00:52
 File: S7030100.CHW

Last save: 7/3/2008 01:12:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37800
 SAMPLE: EXTRACTED - CS
 Vial number: 41
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.061	-1.986	Fluoride
2	4.07	189.295	116.690	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.93	0.484	1.644	Bromide
5	6.77	1.339	0.978	Nitrate
6	9.47	88.128	70.210	Sulfate
6	12.00	279.307	191.508	

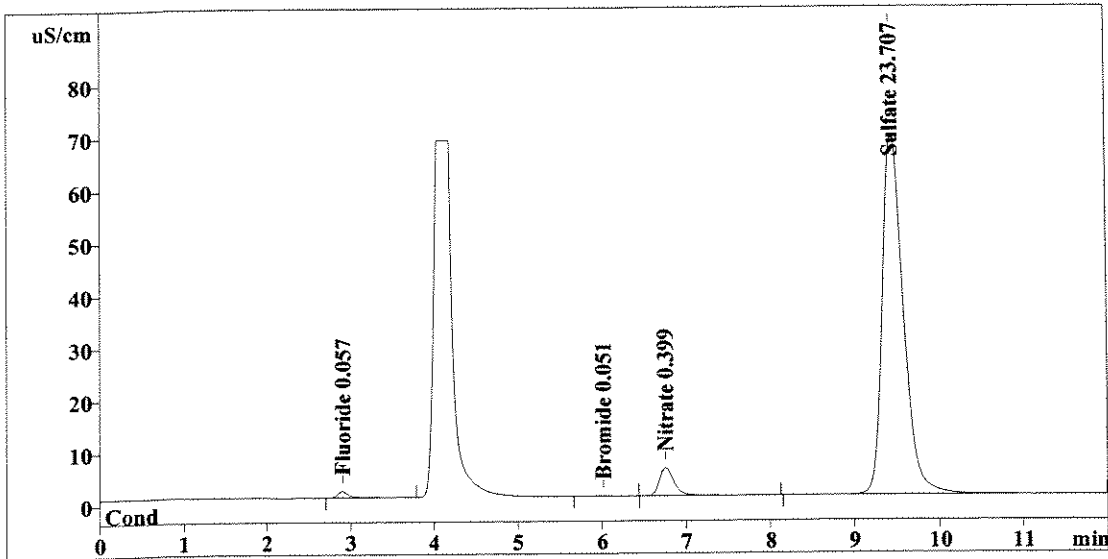
This report has been created by IC Net
 METROHM LTD

Report date: 7/3/2008 01:26:56
 Printed by: User
 Ident: 1111897
 Analysis from: 7/3/2008 01:14:58
 File: S7030114.CHW

Last save: 7/3/2008 01:26:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37801
 SAMPLE: F
 Vial number: 42
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	11.716	0.057	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.01	0.774	0.051	Bromide
5	6.76	63.604	0.399	Nitrate
6	9.45	1176.936	23.707	Sulfate
6	12.00	1253.030	24.215	

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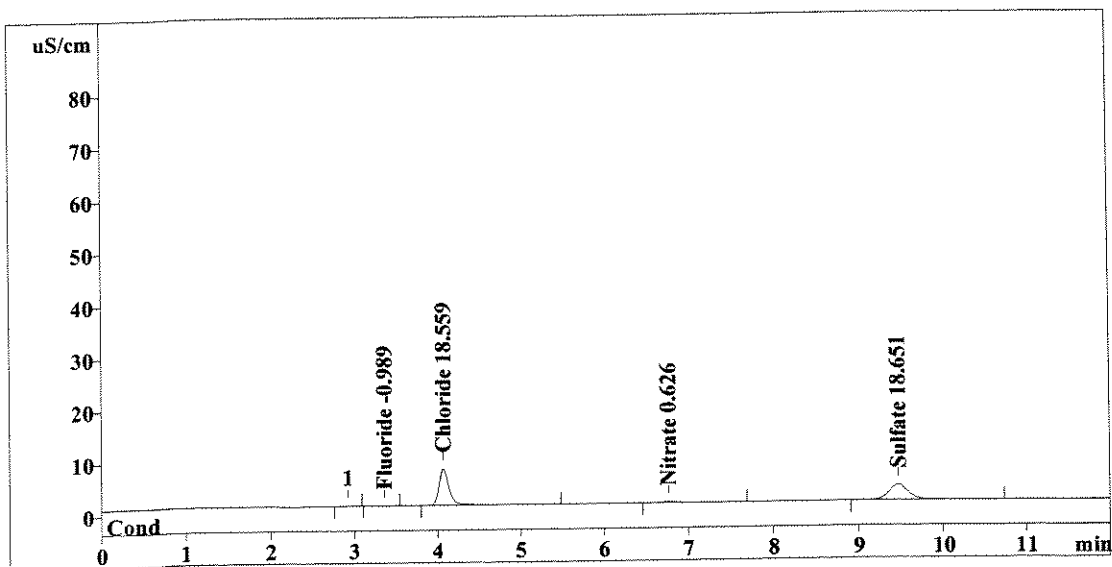
Method 300.0/9056

Report date: 7/3/2008 01:41:02
 Printed by: User
 Ident: 1111897
 Analysis from: 7/3/2008 01:29:03
 File: S7030129.CHW

Last save: 7/3/2008 01:41:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37802
 SAMPLE: CS
 Vial number: 43
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.079	-0.989	Fluoride
2	4.07	59.176	18.559	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.77	2.474	0.626	Nitrate
6	9.47	47.323	18.651	Sulfate
<hr/>				
6	12.00	109.052	38.825	

Handwritten notes:
 1/10 (next to Chloride)
 1/10 (next to Sulfate)
 7/3/08 (signature)

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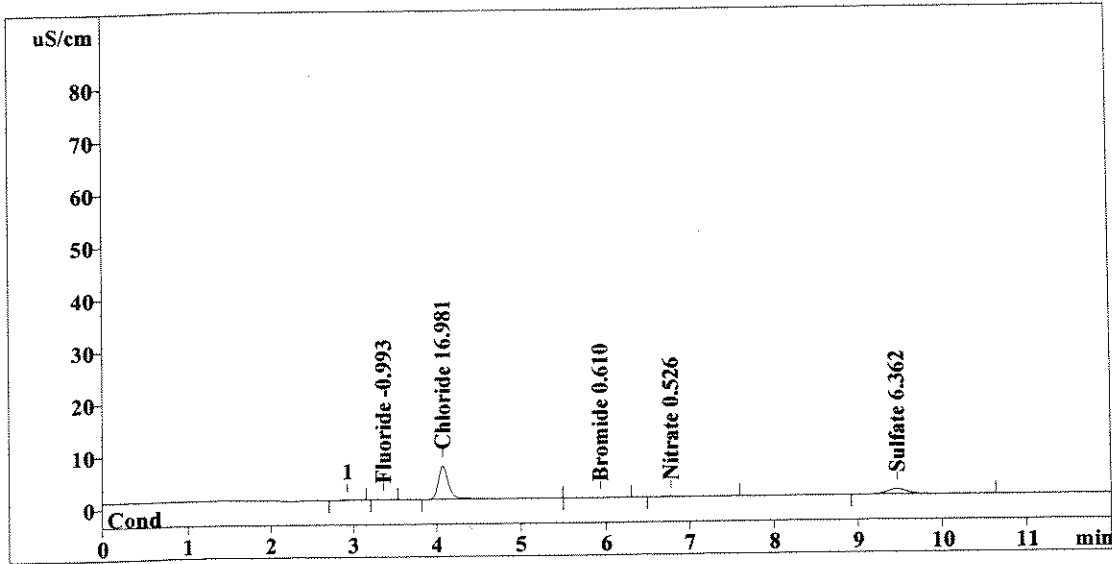
Method 300.0/9056

Report date: 7/3/2008 01:55:07
 Printed by: User
 Ident: 1111898
 Analysis from: 7/3/2008 01:43:09
 File: S7030143.CHW

Last save: 7/3/2008 01:55:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37803
 SAMPLE: CS
 Vial number: 44
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.057	-0.993	Fluoride
2	4.07	54.015	16.981	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.93	0.185	0.610	Bromide
5	6.78	1.647	0.526	Nitrate
6	9.47	16.847	6.362	Sulfate
<hr/>				
6	12.00	72.751	25.473	

Handwritten notes: 1/10 next to Chloride and Sulfate rows; signature and date 7/3/08 below the table.

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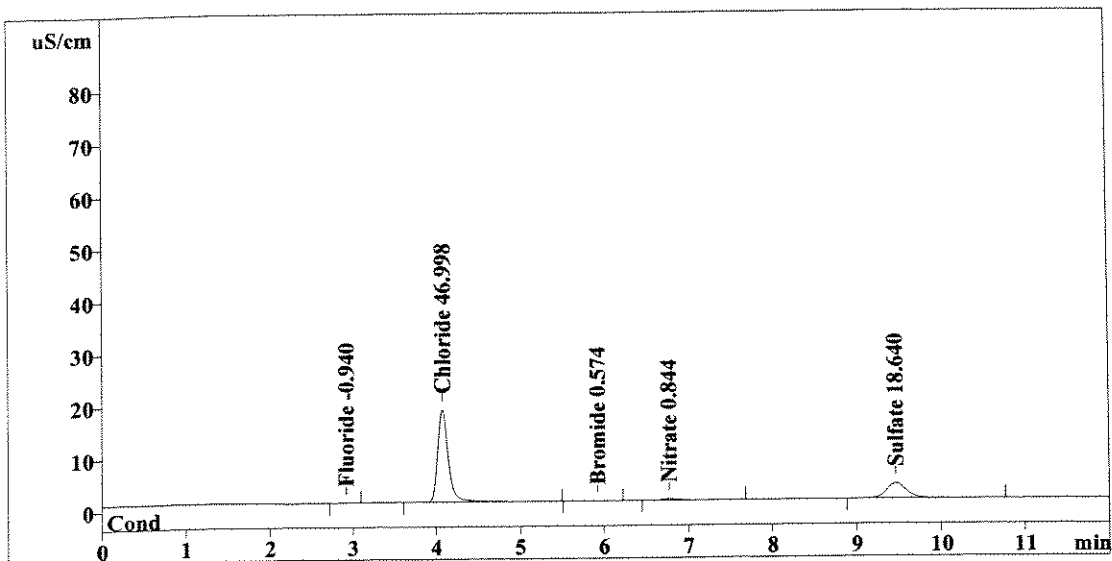
Method 300.0/9056

Report date: 7/3/2008 02:09:13
 Printed by: User
 Ident: 1111899
 Analysis from: 7/3/2008 01:57:15
 File: S7030157.CHW

Last save: 7/3/2008 02:09:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37804
 SAMPLE: CS
 Vial number: 45
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.350	-0.940	Fluoride
2	4.07	152.183	46.998	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.93	0.134	0.574	Bromide
5	6.77	4.288	0.844	Nitrate
6	9.47	47.297	18.640	Sulfate
<hr/>				
6	12.00	204.251	67.996	

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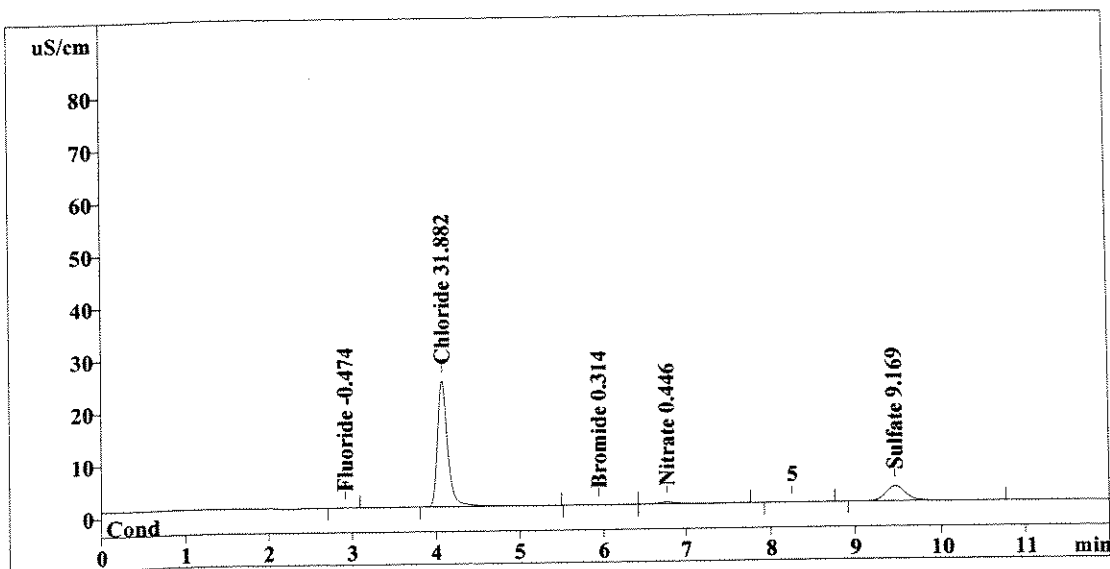
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/3/2008 02:23:19
 Printed by: User
 Ident: 1111983
 Analysis from: 7/3/2008 02:11:21
 File: S7030211.CHW

Method 300.0/9056

Last save: 7/3/2008 02:23:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37805
 SAMPLE: CS
 Vial number: 46
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.310	-0.474	Fluoride
2	4.07	207.015	31.882	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.94	0.211	0.314	Bromide
5	6.77	4.683	0.446	Nitrate
6	9.47	46.548	9.169	Sulfate
6	12.00	258.767	42.284	

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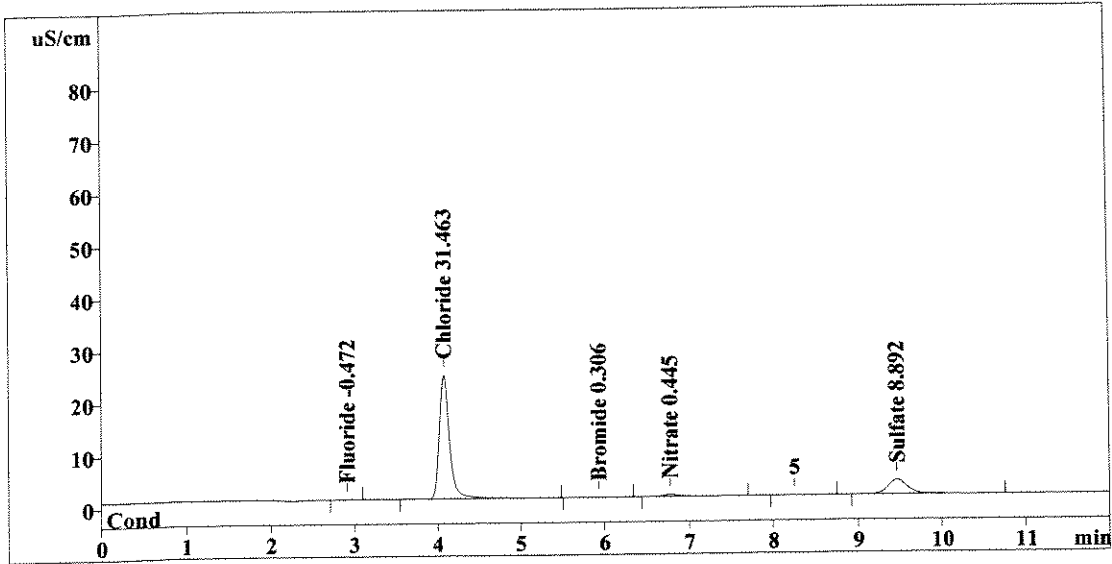
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/3/2008 02:37:25
 Printed by: User
 Ident: 1111983 DUP
 Analysis from: 7/3/2008 02:25:27
 File: S7030225.CHW

Method 300.0/9056

Last save: 7/3/2008 02:37:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37806
 SAMPLE: CS
 Vial number: 47
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.324	-0.472	Fluoride
2	4.07	204.277	31.463	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.94	0.187	0.306	Bromide
5	6.77	4.671	0.445	Nitrate
6	9.47	45.175	8.892	Sulfate
6	12.00	254.636	41.579	

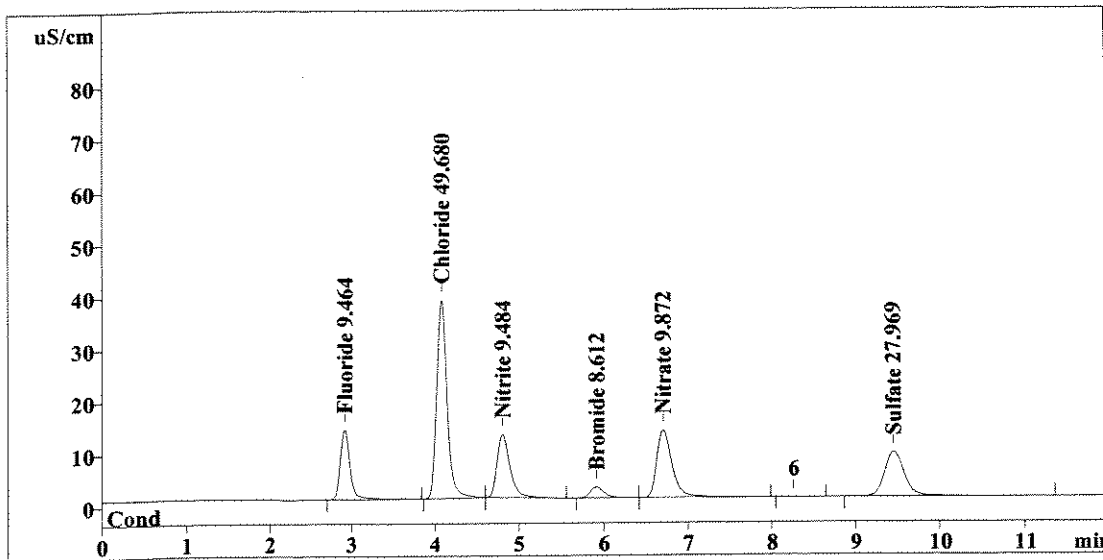
This report has been created by IC Net
 METROHM LTD

Report date: 7/3/2008 02:51:31
 Printed by: User
 Ident: 1111983 SPK
 Analysis from: 7/3/2008 02:39:32
 File: S7030239.CHW

Last save: 7/3/2008 02:51:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37807
 SAMPLE: CS
 Vial number: 48
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	108.510	9.464	Fluoride
2	4.07	323.436	49.680	Chloride
3	4.80	129.586	9.484	Nitrite
4	5.91	23.670	8.612	Bromide
5	6.70	161.463	9.872	Nitrate
6	9.46	139.797	27.969	Sulfate
6	12.00	886.461	115.082	

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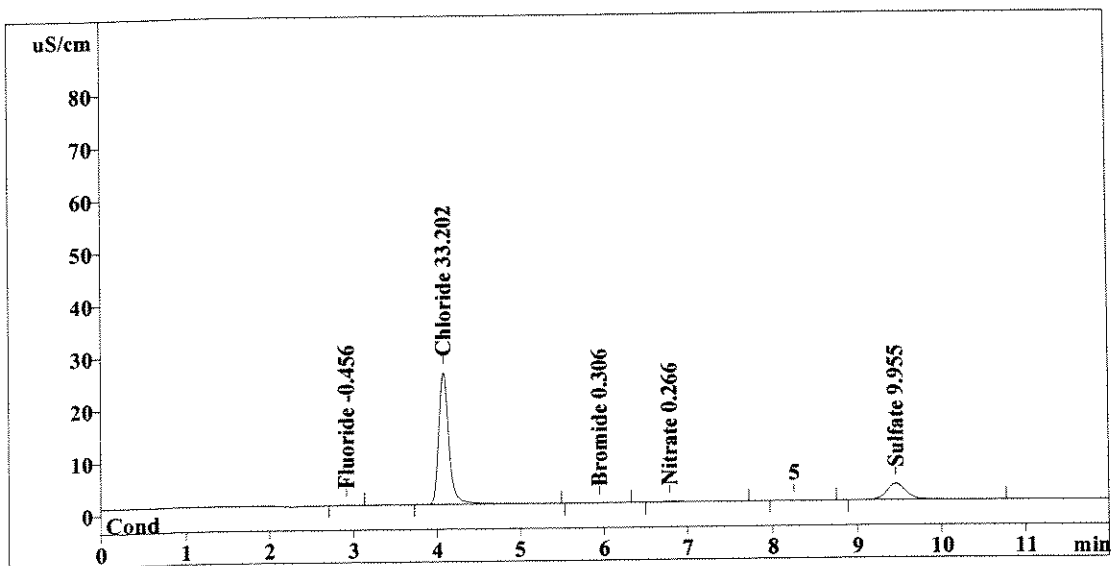
Method 300.0/9056

Report date: 7/3/2008 03:05:36
 Printed by: User
 Ident: 1111984
 Analysis from: 7/3/2008 02:53:38
 File: S7030253.CHW

Last save: 7/3/2008 03:05:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37808
 SAMPLE: CS
 Vial number: 49
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.499	-0.456	Fluoride
2	4.07	215.651	33.202	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.95	0.186	0.306	Bromide
5	6.79	1.691	0.266	Nitrate
6	9.46	50.445	9.955	Sulfate
<hr/>				
6	12.00	268.473	44.185	

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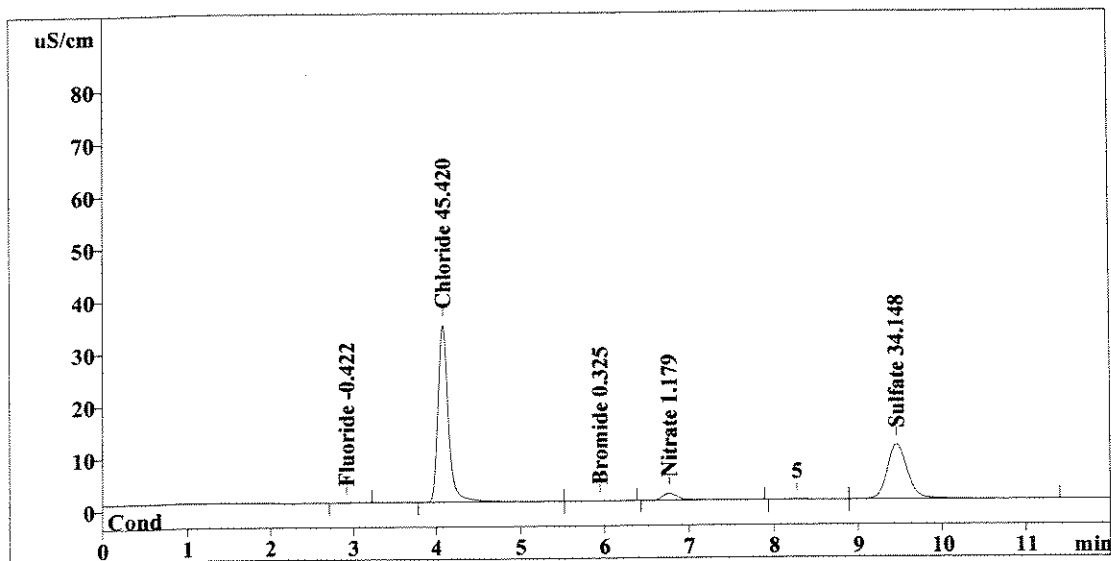
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/3/2008 03:19:42
 Printed by: User
 Ident: 1111985
 Analysis from: 7/3/2008 03:07:44
 File: S7030307.CHW

Method 300.0/9056

Last save: 7/3/2008 03:19:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37809
 SAMPLE: CS
 Vial number: 50
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.870	-0.422	Fluoride
2	4.07	295.571	45.420	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.95	0.239	0.325	Bromide
5	6.77	16.877	1.179	Nitrate
6	9.46	170.443	34.148	Sulfate
6	12.00	484.000	81.494	

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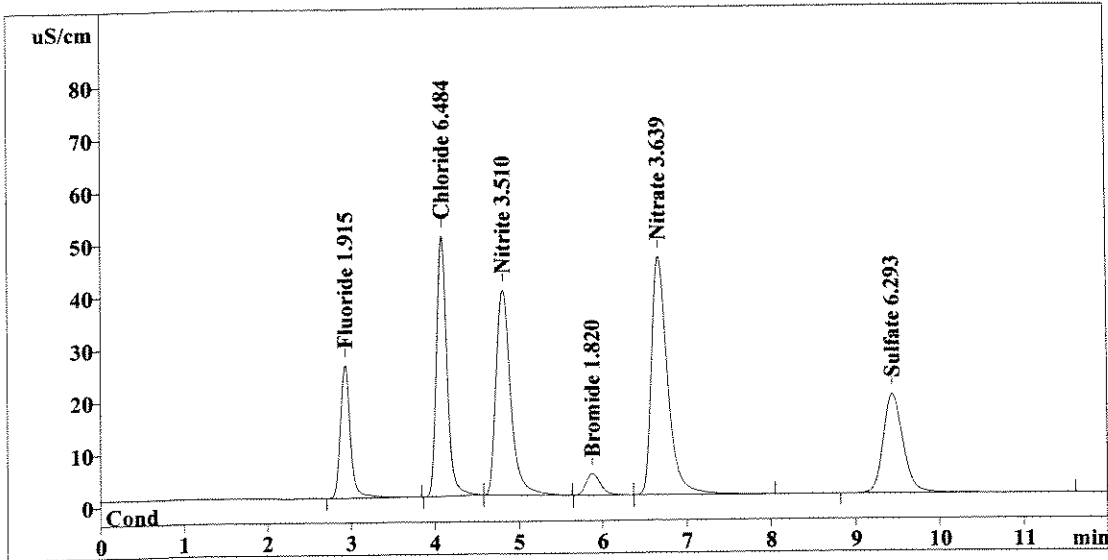
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/3/2008 03:33:48
 Printed by: User
 Ident: CCV
 Analysis from: 7/3/2008 03:21:50
 File: S7030321.CHW

Method 300.0/9056

Last save: 7/3/2008 03:33:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37810
 SAMPLE:
 Vial number: 51
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	213.959	1.915	Fluoride
2	4.07	422.561	6.484	Chloride
3	4.80	477.644	3.510	Nitrite
4	5.88	50.788	1.820	Bromide
5	6.66	602.572	3.639	Nitrate
6	9.44	313.184	6.293	Sulfate
6	12.00	2080.709	23.661	

Handwritten notes: 'OK' with a checkmark next to the first four rows, and '1/3/08' with a signature next to the last row.

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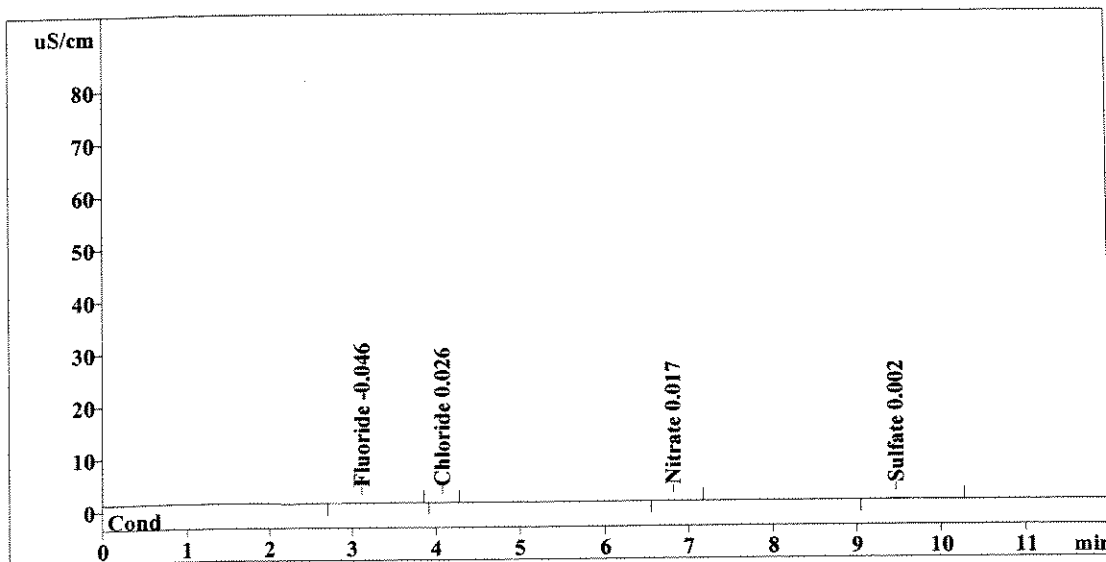
Method 300.0/9056

Report date: 7/3/2008 03:47:54
 Printed by: User
 Ident: CCB
 Analysis from: 7/3/2008 03:35:56
 File: S7030335.CHW

Last save: 7/3/2008 03:47:54

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37811
 SAMPLE:
 Vial number: 52
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.12	0.494	-0.046	Fluoride
2	4.07	0.181	0.026	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.81	0.106	0.017	Nitrate
6	9.47	1.160	0.002	Sulfate
<hr/>				
6	12.00	1.941	0.091	

OK
↓
7/3/08

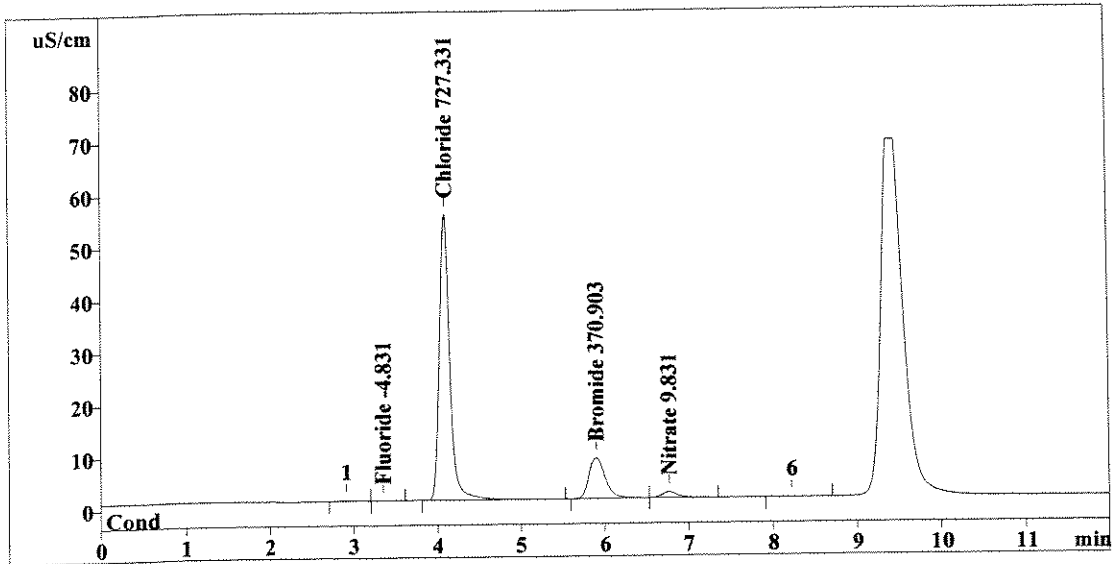
This report has been created by IC Net
 METROHM LTD

Report date: 7/3/2008 04:02:00
 Printed by: User
 IDent: 1112871
 Analysis from: 7/3/2008 03:50:02
 File: S7030350.CHW

Last save: 7/3/2008 04:02:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37812
 SAMPLE: CS
 Vial number: 53
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.205	-4.831	Fluoride
2	4.08	474.223	727.331	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	104.183	370.903	Bromide
5	6.77	13.622	9.831	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	592.233	1112.897	

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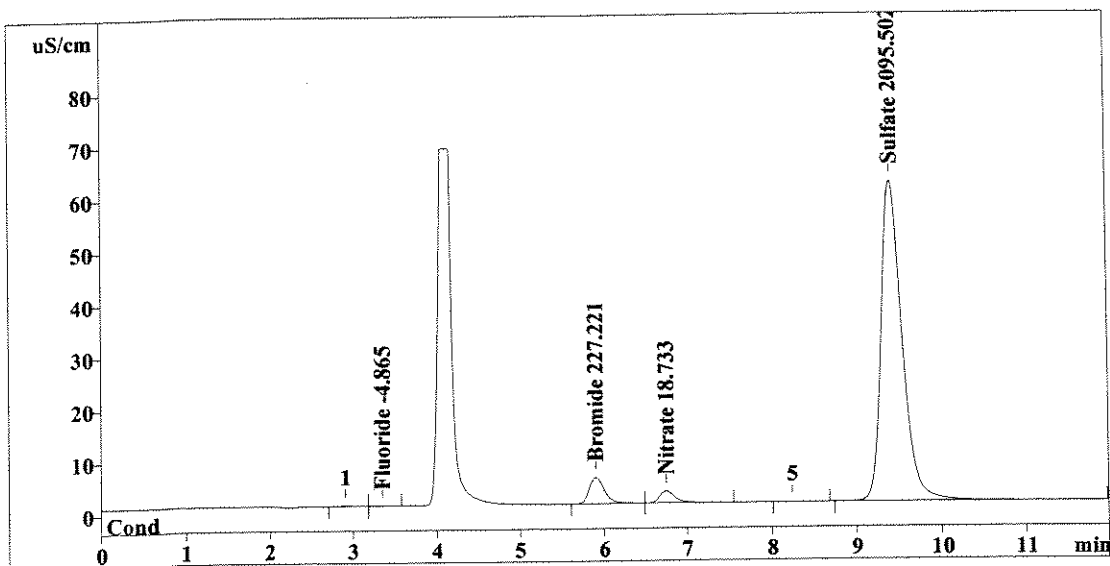
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/3/2008 04:16:06
 Printed by: User
 Ident: 1112872
 Analysis from: 7/3/2008 04:04:08
 File: S7030404.CHW

Method 300.0/9056

Last save: 7/3/2008 04:16:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37813
 SAMPLE: CS
 Vial number: 54
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.169	-4.865	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	63.561	227.221	Bromide
5	6.75	28.429	18.733	Nitrate
6	9.42	1040.425	2095.502	Sulfate
6	12.00	1132.584	2346.321	

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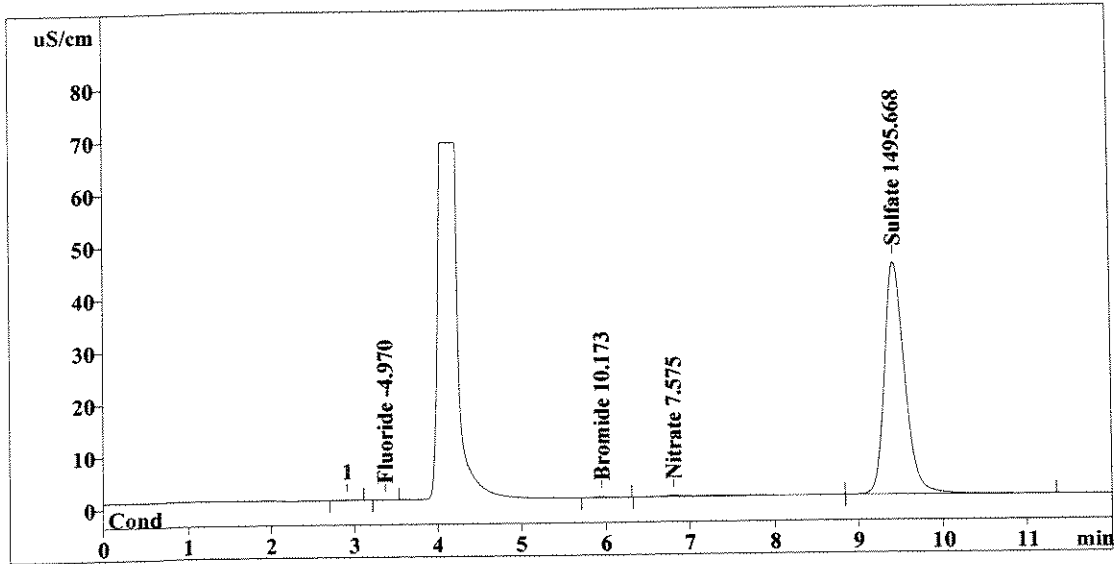
Method 300.0/9056

Report date: 7/3/2008 04:30:11
 Printed by: User
 Ident: 1112874
 Analysis from: 7/3/2008 04:18:13
 File: S7030418.CHW

Last save: 7/3/2008 04:30:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37814
 SAMPLE: CS
 Vial number: 55
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.054	-4.970	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.95	2.198	10.173	Bromide
5	6.81	9.870	7.575	Nitrate
6	9.43	742.911	1495.668	Sulfate
6	12.00	755.034	1518.386	

Handwritten notes: 1/1000 next to peak 2; 1000 next to peak 6; signature and date 7/3/08 below peak 6.

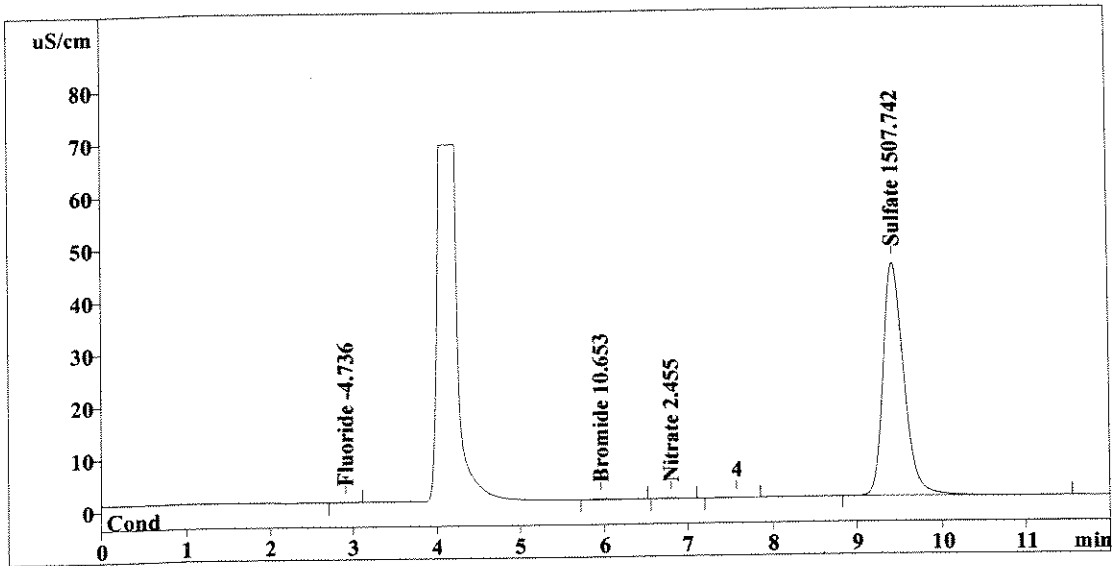
This report has been created by IC Net
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Report date: 7/3/2008 04:44:17
 Printed by: User
 Ident: 1112874 DUP
 Analysis from: 7/3/2008 04:32:19
 File: S7030432.CHW

Last save: 7/3/2008 04:44:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37815
 SAMPLE: CS
 Vial number: 56
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.309	-4.736	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	2.334	10.653	Bromide
5	6.80	1.354	2.455	Nitrate
6	9.44	748.900	1507.742	Sulfate
6	12.00	752.896	1525.586	

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 Columbia Analytical Services
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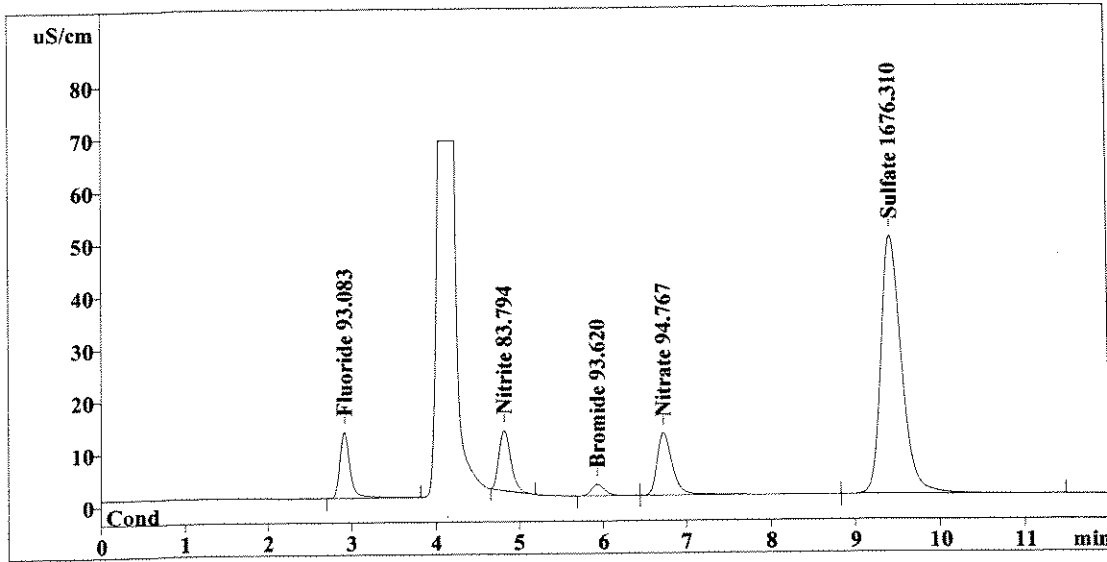
Method 300.0/9056

Report date: 7/3/2008 04:58:23
 Printed by: User
 Ident: 1112874 SPK
 Analysis from: 7/3/2008 04:46:25
 File: S7030446.CHW

Last save: 7/3/2008 04:58:24

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37816
 SAMPLE: CS
 Vial number: 57
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	106.818	93.083	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.82	114.576	83.794	Nitrite
4	5.93	25.790	93.620	Bromide
5	6.73	154.890	94.767	Nitrate
6	9.43	832.509	1676.310	Sulfate
6	12.00	1234.583	2041.574	

This report has been created by IC Net
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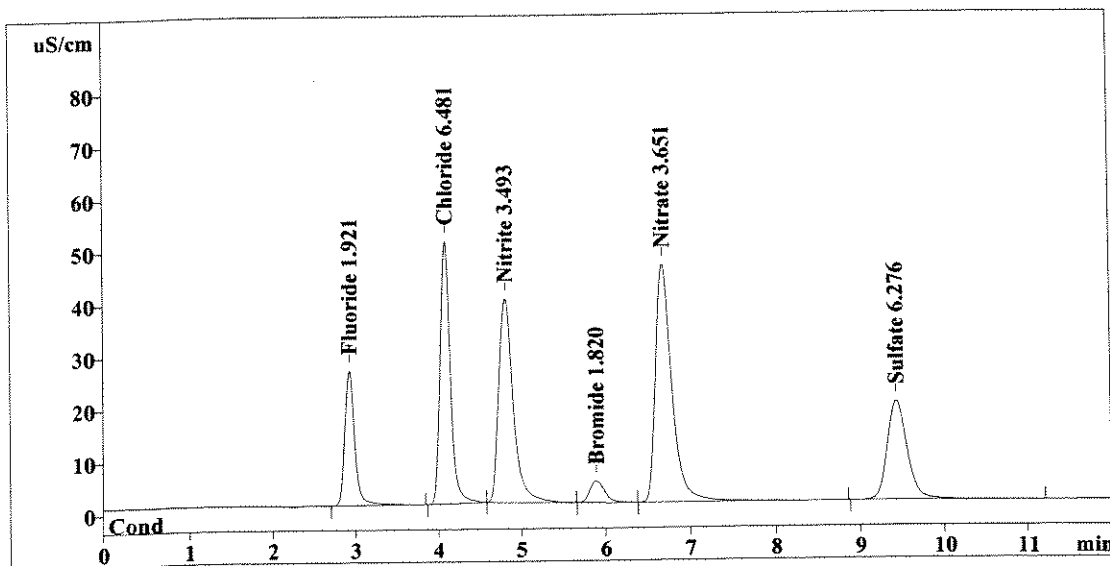
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/3/2008 05:12:29
 Printed by: User
 Ident: CCV
 Analysis from: 7/3/2008 05:00:31
 File: S7030500.CHW

Method 300.0/9056

Last save: 7/3/2008 05:12:30

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37817
 SAMPLE:
 Vial number: 58
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	214.630	1.921	Fluoride
2	4.07	422.425	6.481	Chloride
3	4.80	475.386	3.493	Nitrite
4	5.89	50.773	1.820	Bromide
5	6.68	604.465	3.651	Nitrate
6	9.44	312.346	6.276	Sulfate
<hr/>				
6	12.00	2080.024	23.642	

Handwritten notes: A checkmark is next to the first three rows. A vertical arrow points from the Bromide row down to the Sulfate row. A signature and date '7/3/08' are written below the table.

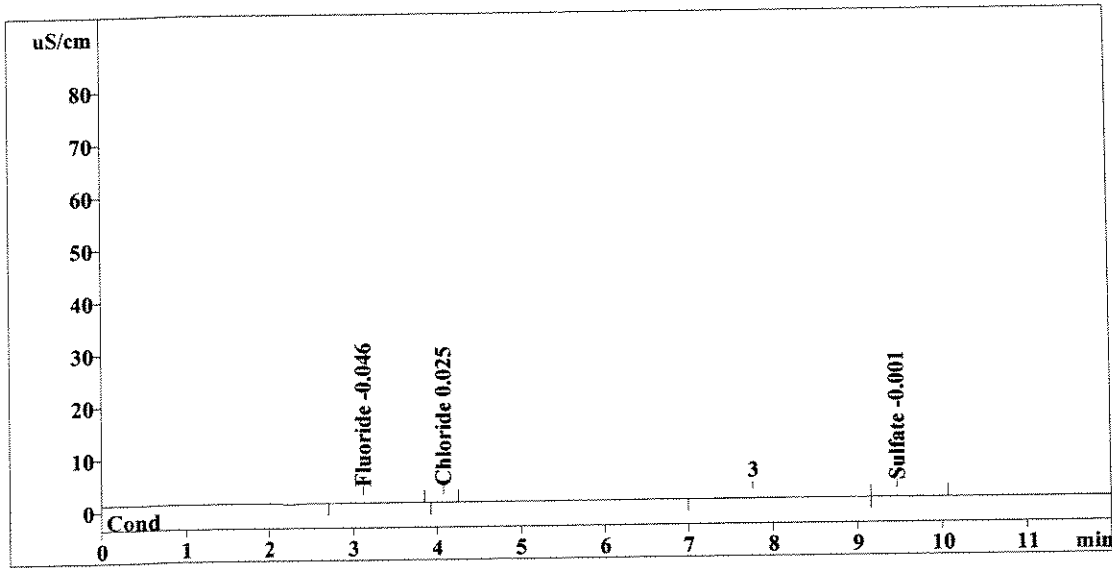
This report has been created by IC Net
 METROHM LTD

Report date: 7/3/2008 05:26:35
 Printed by: User
 Ident: CCB
 Analysis from: 7/3/2008 05:14:37
 File: S7030514.CHW

Last save: 7/3/2008 05:26:35

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37818
 SAMPLE:
 Vial number: 59
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.13	0.475	-0.046	Fluoride
2	4.07	0.113	0.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.47	1.043	-0.001	Sulfate
6	12.00	1.631	0.071	

This report has been created by IC Net
 METROHM LTD

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861
 Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 06/10/2008 Loop size: 50 uL Loop

Analyst: 77 C. Woods Analysis Date: 7-2-08

Is copy of LCS attached to run? 7/10/08 YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A		Working Calibration Stds	06/10/08	WC72050H
LCS / MS Intermediate	06/10/08	WC72050A		Working LCS/MS Standard	06/26/08	WC72093D
ICV Intermediate	05/05/08	WC72134B		Working ICV Standard	DAILY	WC72134H
CCV Intermediate	05/05/08	WC72134B		Working CCV Standard	DAILY	WC72134H

Comments:

CALIBRATION EXPIRES ON 12/10/2008

CHORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

WORKING LCS PREP
 (Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mL sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC720050A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC720093C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC720093D
NO3		50			1.0	CMW	7/3/08	E	7/16/08	WC720093E
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

44601
 44666
 44650
 44797
 44803

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
				RESULT								
BLK5		1116129	SOIL/SEDIME	20.0	U	1.0	20.0			07/03/2008		
ESMP	R2844666	1112363	SOIL/SEDIME	11300		400.0	20.0			07/03/2008		ASPB
ESMP	R2844666	1112365	SOIL/SEDIME	724		40.0	20.0			07/03/2008		ASPB
ESMP	R2844650	1112871	WATER	2430		1000.0	0.200			07/03/2008		ASPB
CHK5		1116130	WATER	6.33		1.0	0.200	98.9		07/03/2008		
BLK4		1116131	WATER	0.200	U	1.0	0.200			07/03/2008		
SPKB		1116132	WATER	1.85		1.0	0.200	92.5		07/03/2008		
ESMP	R2844650	1112872	WATER	1950		1000.0	0.200			07/03/2008		ASPB
ESMP	R2844650	1112874	WATER	1440		1000.0	0.200			07/03/2008	QC	ASPB
LDUP		1116133	WATER	1430		1000.0	0.200		0.50	07/03/2008		
SPK1		1116134	WATER	3320		1000.0	0.200	93.9		07/03/2008		
BLK5		1116148	SOIL/SEDIME	0.140		1.0	20.0			07/03/2008		
ESMP	R2844666	1113258	SOIL/SEDIME	17000		1000.0	20.0			07/03/2008		ASPB
BLK5		1116151	SOIL/SEDIME	0.380		1.0	20.0			07/03/2008		
ESMP	R2844797	1114379	SOIL/SEDIME	91.4		1.0	20.0			07/03/2008		ASPB
ESMP	R2844803	1114419	WATER	1210		1000.0	0.200			07/03/2008		ASPB
LDUP		1116135	WATER	1190		1000.0	0.200		1.59	07/03/2008		
SPK1		1116136	WATER	3080		1000.0	0.200	93.5		07/03/2008		
ESMP	R2844803	1114420	WATER	1160		1000.0	0.200			07/03/2008		ASPB
ESMP	R2844803	1114421	WATER	1170		1000.0	0.200			07/03/2008	QC	ASPB
LDUP		1116137	WATER	1190		1000.0	0.200		1.82	07/03/2008		
SPK1		1116138	WATER	3050		1000.0	0.200	94.1		07/03/2008		
ESMP	R2844803	1114756	WATER	1300		400.0	0.200			07/03/2008		ASPB
ESMP	R2844803	1114758	WATER	0.200	U	1.0	0.200			07/03/2008		ASPB

Records printed: 24

Reviewed & Approved
 By: Stuko
 Date: 7/10/8

Run #: 163509

Analyte: CHLORIDE 9056

CHLORIDE BY ION CHROMATOGRAPHY

Printed: 07/10/08 08:38

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844650	1112872	WATER	1510	1000.0	0.200			07/03/2008		ASPB
CHK5		1116139	WATER	6.51	1.0	0.200	100.1		07/03/2008		
BLK4		1116140	WATER	0.200	1.0	0.200			07/03/2008		
SPKB		1116141	WATER	1.94	1.0	0.200	97.2		07/03/2008		
ESMP	R2844650	1112874	WATER	3890	1000.0	0.200			07/03/2008	QC	ASPB
LDUP		1116142	WATER	3680	1000.0	0.200		5.68	07/03/2008		
SPK1		1116143	WATER	5460	1000.0	0.200	78.4		07/03/2008		
ESMP	R2844797	1114379	SOIL/SEDIME	37.8	1.0	20.0			07/03/2008		ASPB
ESMP	R2844803	1114419	WATER	1810	1000.0	0.200			07/03/2008		ASPB
LDUP		1116144	WATER	1820	1000.0	0.200		0.35	07/03/2008		
SPK1		1116145	WATER	3680	1000.0	0.200	93.4		07/03/2008		
ESMP	R2844803	1114420	WATER	1710	1000.0	0.200			07/03/2008		ASPB
ESMP	R2844803	1114421	WATER	1720	1000.0	0.200			07/03/2008	QC	ASPB
LDUP		1116146	WATER	1740	1000.0	0.200		1.35	07/03/2008		
SPK1		1116147	WATER	3690	1000.0	0.200	98.6		07/03/2008		
ESMP	R2844803	1114756	WATER	2240	400.0	0.200			07/03/2008		ASPB
ESMP	R2844803	1114758	WATER	0.0250	1.0	0.200			07/03/2008		ASPB

Records printed: 17

07-07-08 Data Manually Entered

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution.1	CCV	146	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.1	CCB	147	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.1	LCS	148	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.1	1114419	1	1.0	1000.0	1.0	100.0	0	1	1	CS	Analyst: Calvoss
Columbia-no dilution.1	1114419 DUP	2	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.1	1114419 SPK	3	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.1	1114420	4	1.0	1000.0	1.0	100.0	0	1	1	CS	Pipets: Airie
Columbia-no dilution.1	1114421	5	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.1	1114421 DUP	6	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.1	1114421 SPK	7	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.1	1113696	8	1.0	1000.0	1.0	100.0	0	1	1	C	
Columbia-no dilution.1	1113258	9	1.0	1000.0	1.0	100.0	0	1	1	EXTRACTION - S	
Columbia-no dilution.1	1113262	10	1.0	10.0	1.0	100.0	0	1	1	EXTRACTION - S	
Columbia-no dilution.1	1112363	11	1.0	400.0	1.0	100.0	0	1	1	EXTRACTION - S	
Columbia-no dilution.1	1112365	12	1.0	40.0	1.0	100.0	0	1	1	EXTRACTION - S	
Columbia-no dilution.1	1111897	13	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.1	1111898	14	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.1	CCV	15	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.1	CCB	16	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.1	1111899	17	1.0	10.0	1.0	100.0	0	1	1		
Columbia-no dilution.1	1111983	18	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.1	1111983 DUP	19	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.1	1111983 SPK	20	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.1	1111984	21	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.1	1111985	22	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.1	1112871	23	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.1	1112872	24	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.1	1112874	25	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.1	1112874 DUP	26	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.1	1112874 SPK	27	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.1	1112874	28	1.0	4000.0	1.0	100.0	0	1	1	C	
Columbia-no dilution.1	1112874 DUP	29	1.0	4000.0	1.0	100.0	0	1	1	C	
Columbia-no dilution.1	1112874 SPK	30	1.0	4000.0	1.0	100.0	0	1	1	C	
Columbia-no dilution.1	METHOD BLANK	31	1.0	1.0	1.0	100.0	0	1	1	06/26/2008	
Columbia-no dilution.1	METHOD BLANK	32	1.0	1.0	1.0	100.0	0	1	1	06/30/2008	
Columbia-no dilution.1	CCV	33	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.1	CCB	34	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.1	LCS	35	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.1	METHOD BLANK	36	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.1	1114366	37	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.1	1114376	38	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.1	1114379	39	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.1	1114380	40	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.1	1114380 DUP	41	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.1	1114380 SPK	42	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.1	1114382	43	1.0	1.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.1	EB07020NGW1	44	1.0	1.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.1	M-65B	78	1.0	10.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.1	M-65B	79	1.0	40.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.1	M-65B	80	1.0	100.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.1	M-65B	81	1.0	400.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.1	CCV	82	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.1	CCB	83	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.1	1114737	84	1.0	10.0	1.0	100.0	0	1	1	NW	

WORKLISTS
UP DATED

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution	1114737 DUP	85	1.0	10.0	1.0	100.0	0	1	1	NV	
Columbia-no dilution	1114737 SPK	86	1.0	10.0	1.0	100.0	0	1	1	NV	
Columbia-no dilution	CCY	87	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	88	1.0	1.0	1.0	100.0	0	1	1		

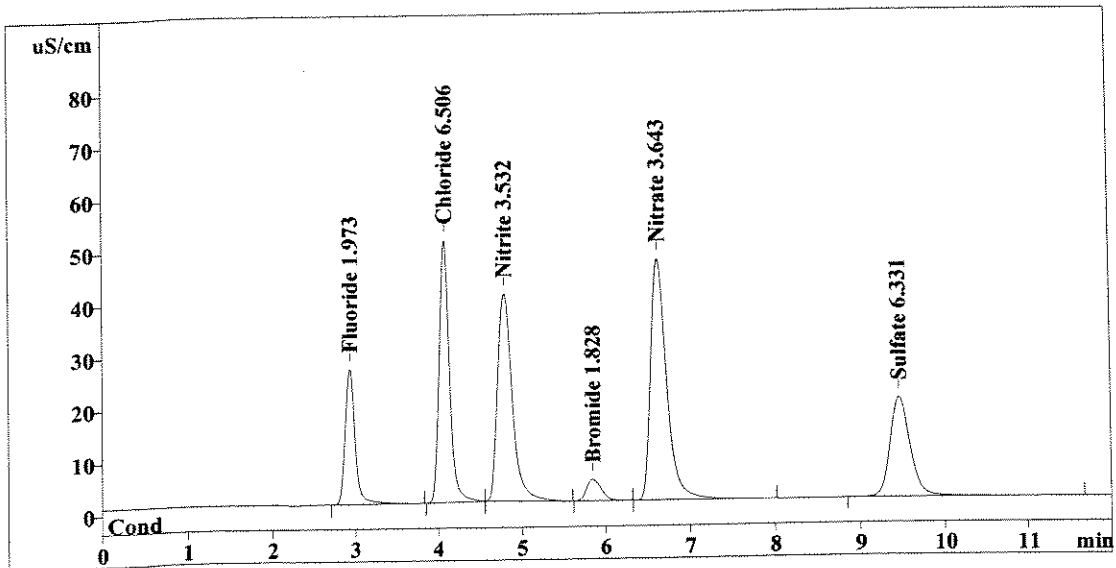
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/7/2008 12:21:10
 Printed by: User
 Ident: CCV
 Analysis from: 7/3/2008 10:10:04
 File: s7031010.chw

Method 300.0/9056

Last save: 7/3/2008 10:22:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37819
 SAMPLE:
 Vial number: 146
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	220.339	1.973	Fluoride
2	4.06	424.061	6.506	Chloride
3	4.78	480.583	3.532	Nitrite
4	5.85	51.000	1.828	Bromide
5	6.62	603.110	3.643	Nitrate
6	9.46	315.082	6.331	Sulfate
<hr/>				
6	12.00	2094.174	23.813	

Handwritten notes: '5x' and a downward arrow pointing to the Bromide row, and a signature 'SM 7/7/08' over the final row.

This report has been created by IC Net
 METROHM LTD

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

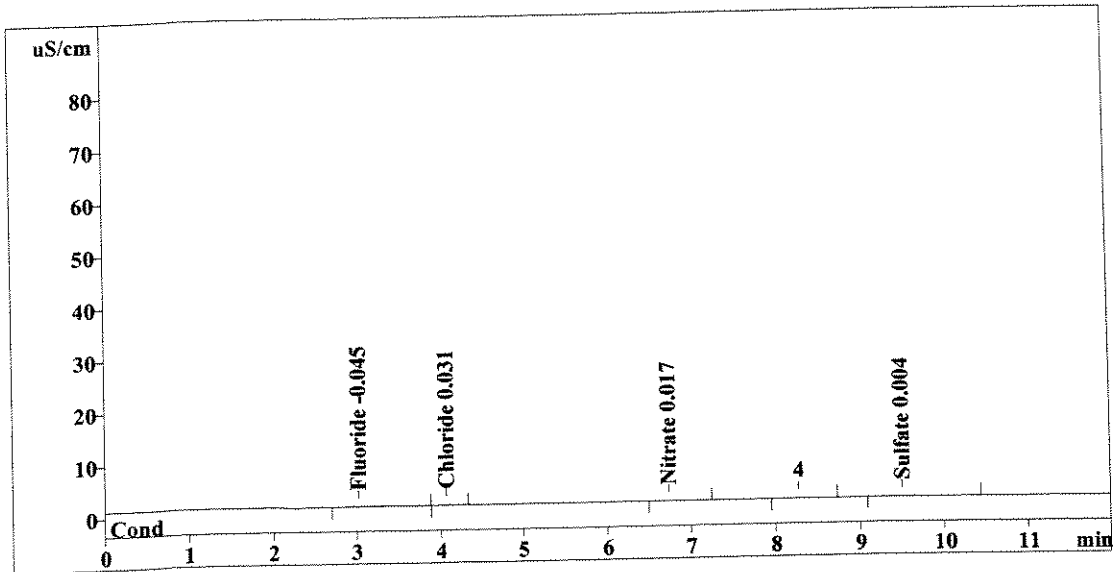
Method 300.0/9056

Report date: 7/7/2008 12:21:23
 Printed by: User
 Ident: CCB
 Analysis from: 7/3/2008 10:24:10
 File: s7031024.chw

Last save: 7/3/2008 10:36:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37820
 SAMPLE:
 Vial number: 147
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.01	0.590	-0.045	Fluoride
2	4.06	0.496	0.031	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.73	0.128	0.017	Nitrate
6	9.50	1.276	0.004	Sulfate
<hr/>				
6	12.00	2.490	0.097	

OK
↓
CCB

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Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

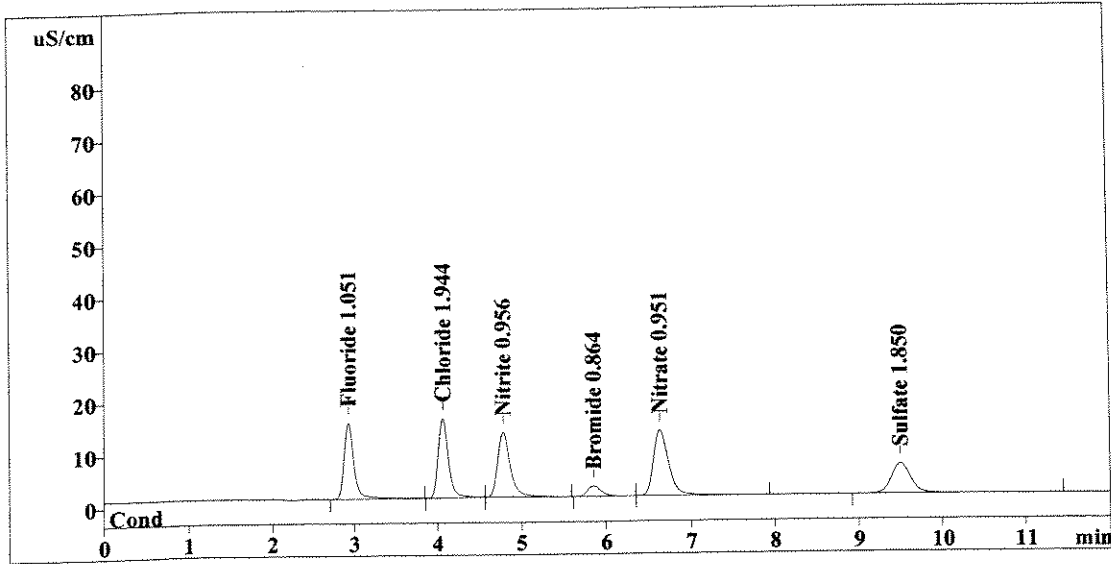
Method 300.0/9056

Report date: 7/7/2008 12:21:45
 Printed by: User
 Ident: LCS
 Analysis from: 7/3/2008 10:38:16
 File: s7031038.chw

Last save: 7/3/2008 10:50:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37821
 SAMPLE:
 Vial number: 148
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	119.910	1.051	Fluoride
2	4.06	125.616	1.944	Chloride
3	4.78	130.622	0.956	Nitrite
4	5.85	23.742	0.864	Bromide
5	6.63	155.370	0.951	Nitrate
6	9.50	92.808	1.850	Sulfate
6	12.00	648.068	7.615	

Handwritten notes:
 OK ↓
 OUT LOW
 OK ↓
 CMT/10/08

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Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

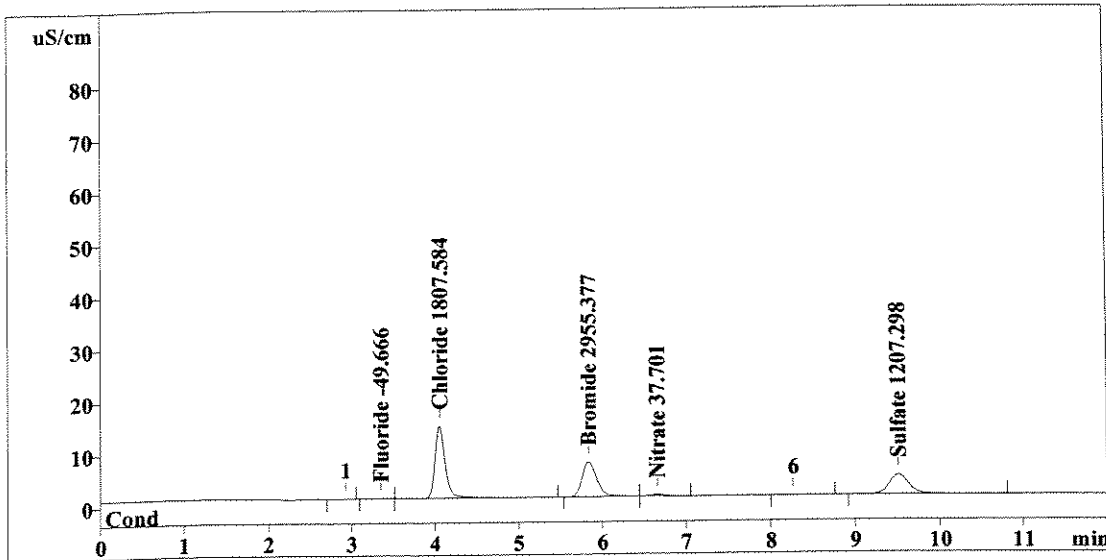
Method 300.0/9056

Report date: 7/7/2008 12:21:49
 Printed by: User
 Ident: 1114419
 Analysis from: 7/3/2008 11:17:40
 File: s7031117.chw

Last save: 7/3/2008 11:29:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37822
 SAMPLE: CS
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.058	-49.666	Fluoride
2	4.05	116.712	1807.584	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.83	82.876	2955.377	Bromide
5	6.65	3.542	37.701	Nitrate
6	9.51	60.951	1207.298	Sulfate
6	12.00	264.138	6057.627	

This report has been created by IC Net
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Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

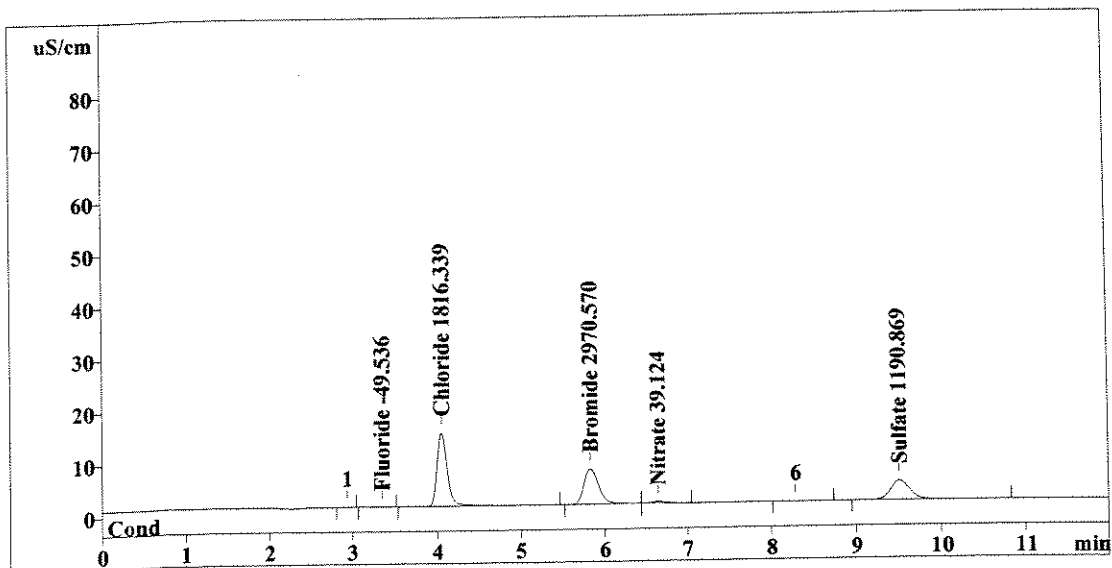
Method 300.0/9056

Report date: 7/7/2008 12:21:41
 Printed by: User
 Ident: 1114419 DUP
 Analysis from: 7/3/2008 11:31:47
 File: s7031131.chw

Last save: 7/3/2008 11:43:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37823
 SAMPLE: CS
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.072	-49.536	Fluoride
2	4.05	117.284	1816.339	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.83	83.306	2970.570	Bromide
5	6.64	3.778	39.124	Nitrate
6	9.52	60.136	1190.869	Sulfate
<hr/>				
6	12.00	264.576	6066.437	

CM
7/7/08

This report has been created by IC Net
 METROHM LTD

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

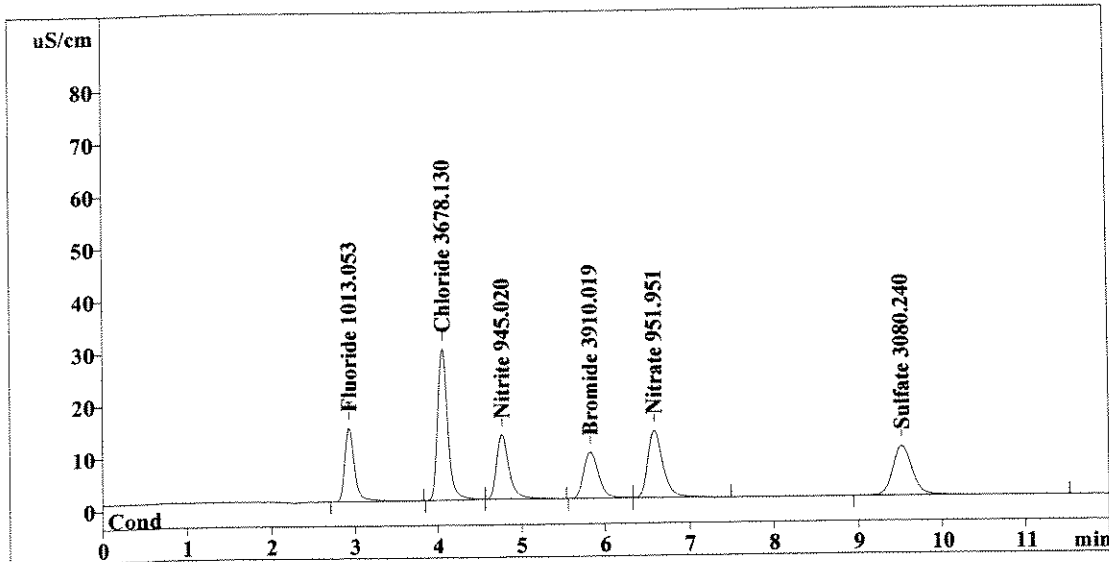
Method 300.0/9056

Report date: 7/7/2008 12:21:52
 Printed by: User
 Ident: 1114419 SPK
 Analysis from: 7/3/2008 11:45:53
 File: s7031145.chw

Last save: 7/3/2008 11:57:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37824
 SAMPLE: CS
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	115.771	1013.053	Fluoride
2	4.05	239.063	3678.130	Chloride
3	4.76	129.125	945.020	Nitrite
4	5.82	109.866	3910.019	Bromide
5	6.58	155.603	951.951	Nitrate
6	9.52	153.848	3080.240	Sulfate
6	12.00	903.276	13578.414	

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 Columbia Analytical Services
 Rochester, NY 14609

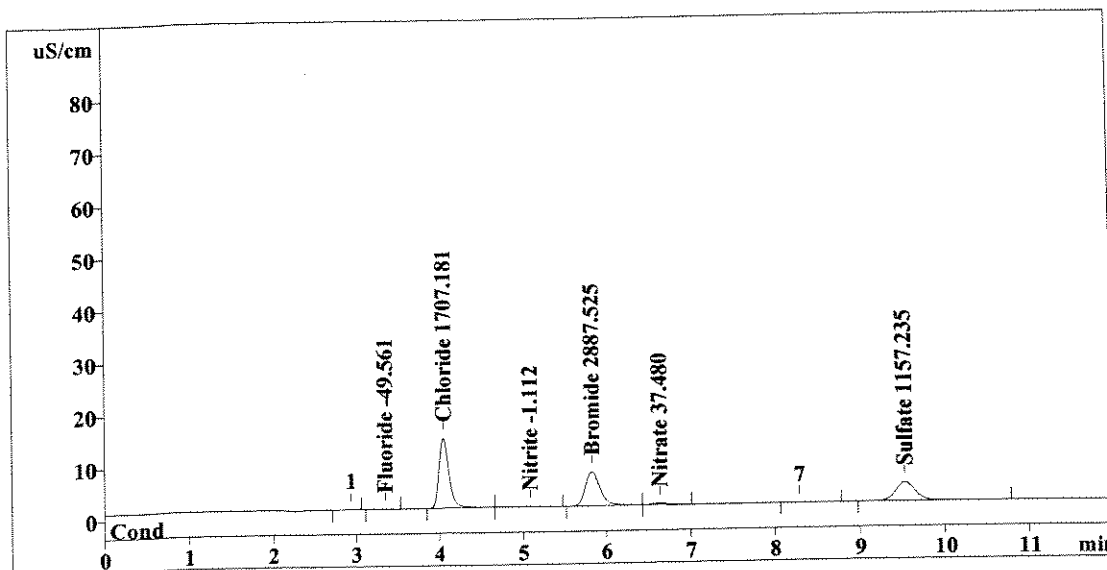
Method 300.0/9056

Report date: 7/7/2008 12:21:55
 Printed by: User
 Ident: 1114420
 Analysis from: 7/3/2008 11:59:59
 File: s7031159.chw

Last save: 7/3/2008 12:11:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37825
 SAMPLE: CS
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.069	-49.561	Fluoride
2	4.05	110.144	1707.181	Chloride
3	5.09	0.574	-1.112	Nitrite
4	5.83	80.958	2887.525	Bromide
5	6.64	3.505	37.480	Nitrate
6	9.53	58.468	1157.235	Sulfate
6	12.00	253.718	5840.094	

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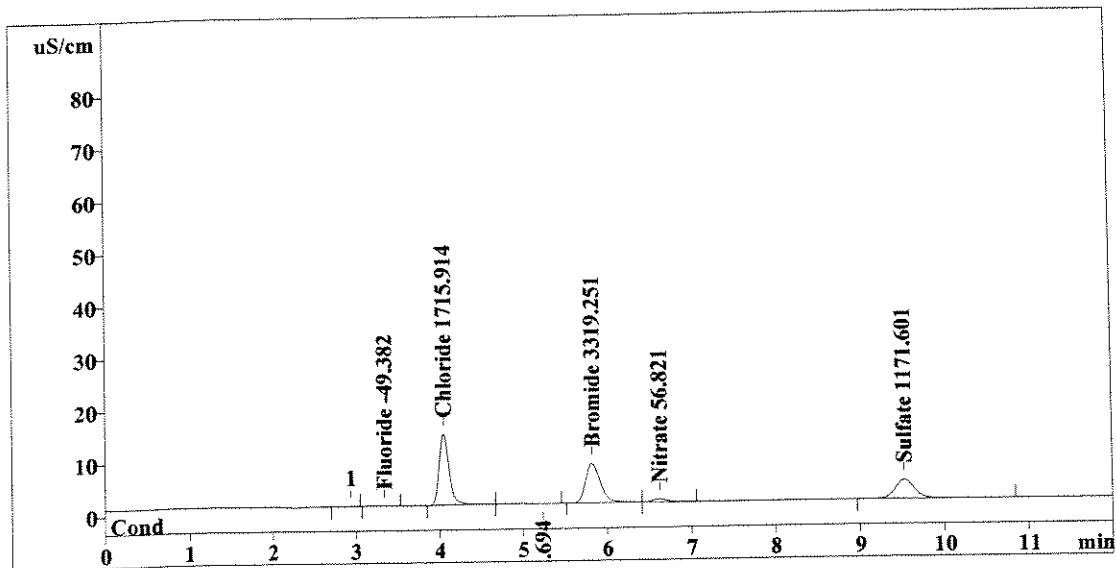
Method 300.0/9056

Report date: 7/7/2008 12:21:58
 Printed by: User
 Ident: 1114421
 Analysis from: 7/3/2008 12:14:05
 File: s7031214.chw

Last save: 7/3/2008 12:26:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37826
 SAMPLE: CS
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.089	-49.382	Fluoride
2	4.04	110.716	1715.914	Chloride
3	5.23	0.359	-2.694	Nitrite
4	5.82	93.164	3319.251	Bromide
5	6.62	6.722	56.821	Nitrate
6	9.53	59.180	1171.601	Sulfate
<hr/>				
6	12.00	270.229	6315.663	

Handwritten signature and date: CMJ 7/7/08

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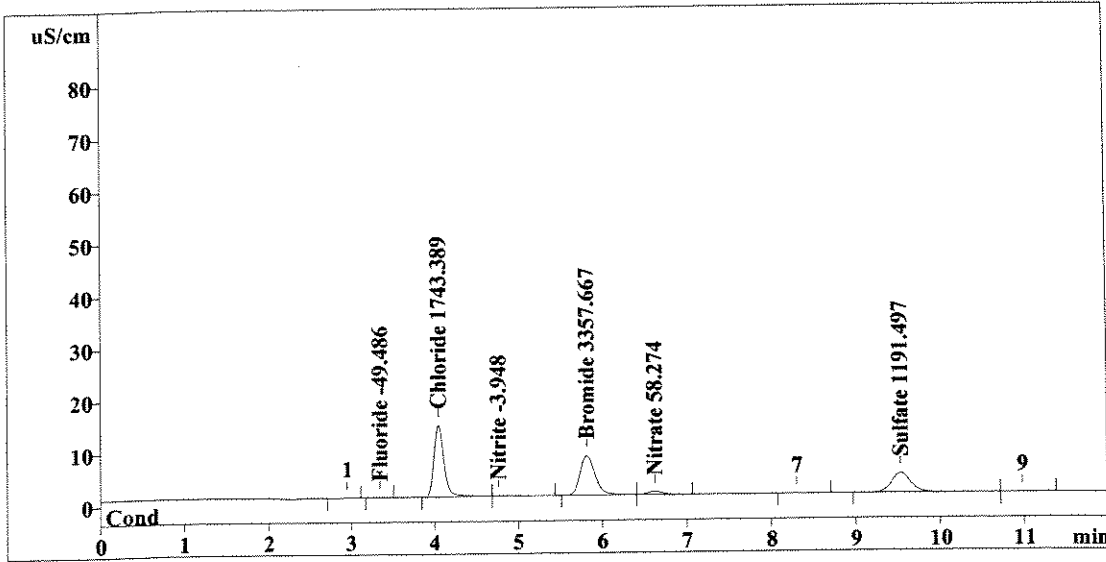
Method 300.0/9056

Report date: 7/7/2008 12:22:01
 Printed by: User
 Ident: 1114421 DUP
 Analysis from: 7/3/2008 12:28:11
 File: s7031228.chw

Last save: 7/3/2008 12:40:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37827
 SAMPLE: CS
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.077	-49.486	Fluoride
2	4.05	112.513	1743.389	Chloride
3	4.76	0.189	-3.948	Nitrite
4	5.82	94.250	3357.667	Bromide
5	6.62	6.963	58.274	Nitrate
6	9.53	60.167	1191.497	Sulfate
6	12.00	274.159	6404.261	

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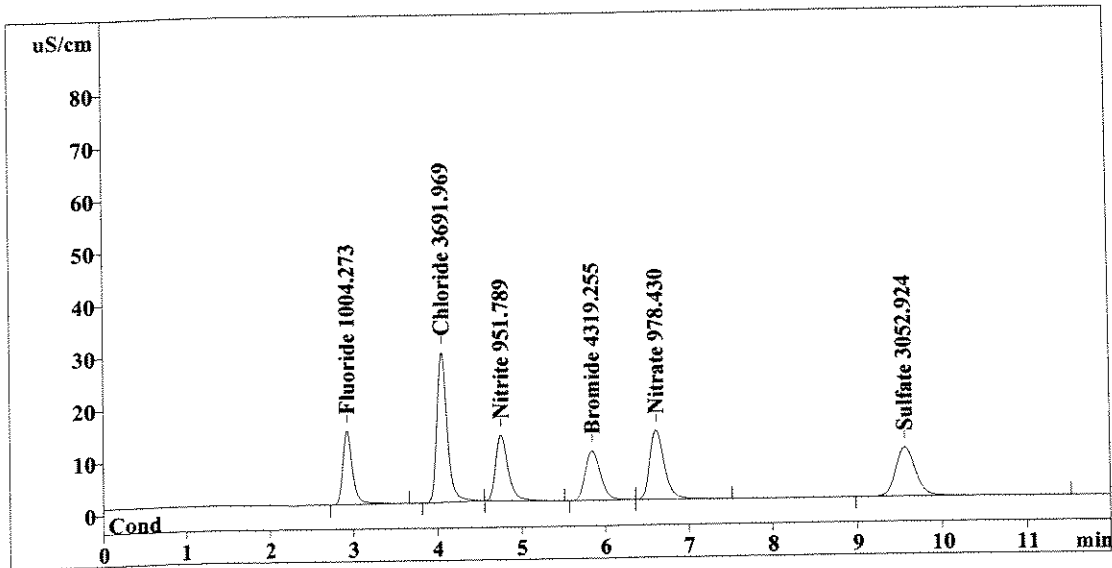
Method 300.0/9056

Report date: 7/7/2008 12:22:05
 Printed by: User
 Ident: 1114421 SPK
 Analysis from: 7/3/2008 12:42:17
 File: s7031242.chw

Last save: 7/3/2008 12:54:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37828
 SAMPLE: CS
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	114.815	1004.273	Fluoride
2	4.05	239.969	3691.969	Chloride
3	4.75	130.045	951.789	Nitrite
4	5.85	121.436	4319.255	Bromide
5	6.61	160.007	978.430	Nitrate
6	9.57	152.493	3052.924	Sulfate
<hr/>				
6	12.00	918.764	13998.641	

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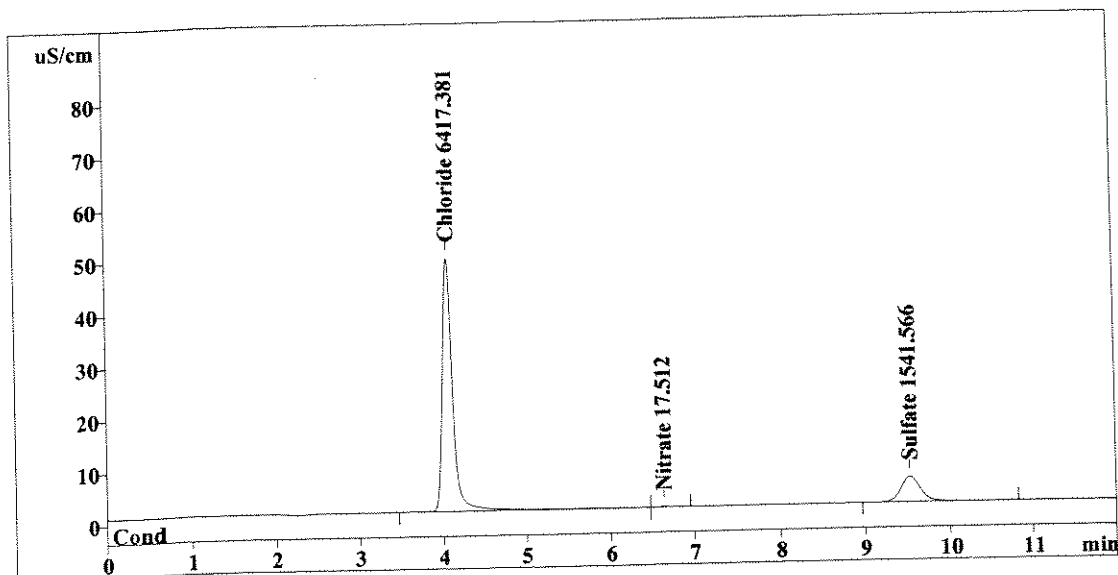
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/7/2008 12:22:09
 Printed by: User
 Ident: 1113696
 Analysis from: 7/3/2008 12:56:23
 File: s7031256.chw

Method 300.0/9056

Last save: 7/3/2008 13:08:19

Last save: 7/3/2008 10:07:11

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37829
 SAMPLE: C
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.05	418.237	6417.381	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.64	0.184	17.512	Nitrate
6	9.53	77.530	1541.566	Sulfate
<hr/>				
6	12.00	495.951	7976.459	

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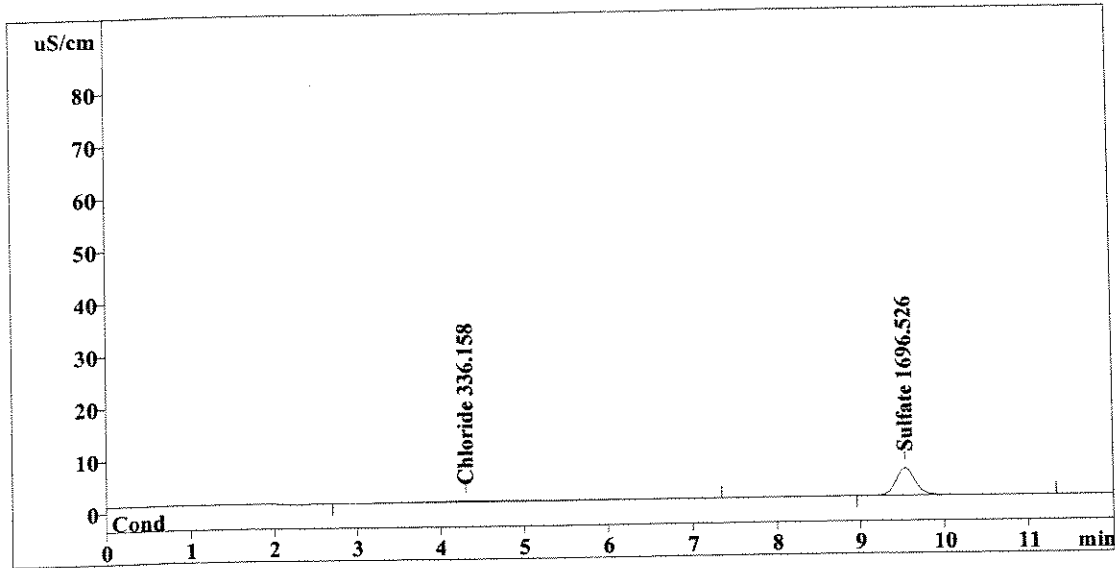
Method 300.0/9056

Report date: 7/7/2008 12:22:12
 Printed by: User
 Ident: 1113258
 Analysis from: 7/3/2008 13:10:29
 File: s7031310.chw

Last save: 7/3/2008 13:22:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37830
 SAMPLE: EXTRACTION - S
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.29	20.466	336.158	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.53	85.216	1696.526	Sulfate
<hr/>				
6	12.00	105.683	2032.684	

25g → done

OK
9/7/08

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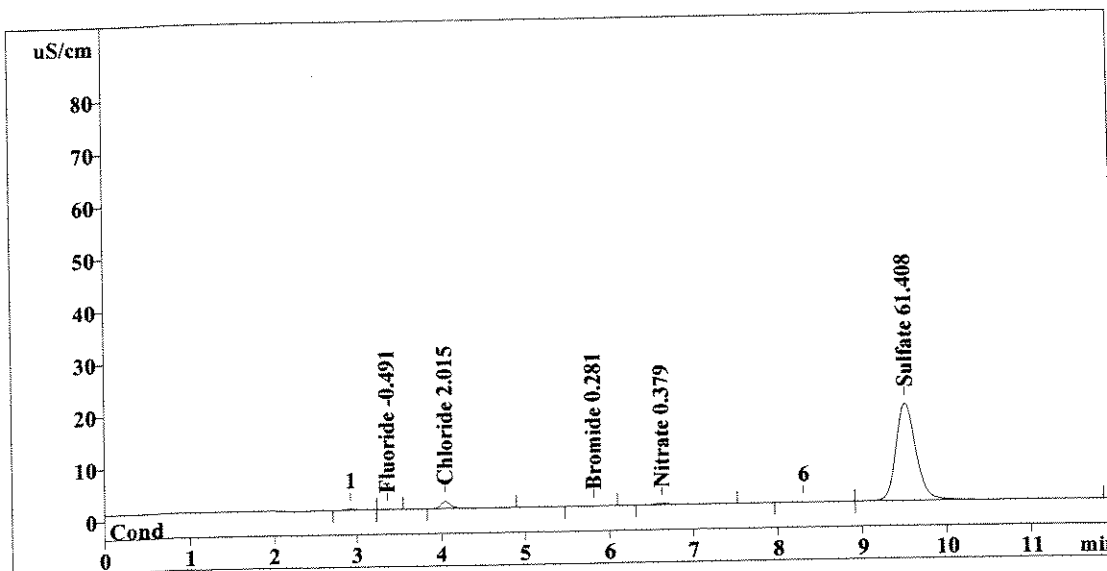
Method 300.0/9056

Report date: 7/7/2008 12:22:15
 Printed by: User
 Ident: 1113262
 Analysis from: 7/3/2008 13:24:35
 File: s7031324.chw

Last save: 7/3/2008 13:36:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37831
 SAMPLE: EXTRACTION - S
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.115	-0.491	Fluoride
2	4.05	11.657	2.015	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.81	0.115	0.281	Bromide
5	6.63	3.579	0.379	Nitrate
6	9.52	305.650	61.408	Sulfate
6	12.00	321.118	64.574	

25g → 250ml

*OK
 7/7/08*

*repeat
 needs extraction
 QC*

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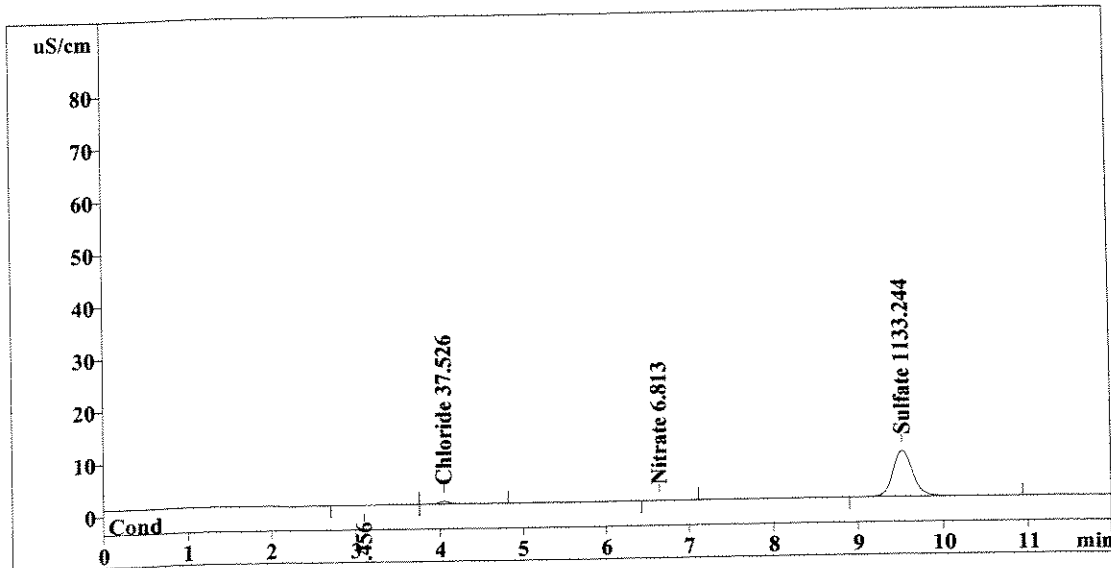
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/7/2008 12:22:18
 Printed by: User
 Ident: 1112363
 Analysis from: 7/3/2008 13:38:41
 File: s7031338.chw

Method 300.0/9056

Last save: 7/3/2008 13:50:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37832
 SAMPLE: EXTRACTION - S
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.12	0.442	-18.456	Fluoride
2	4.05	4.615	37.526	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.64	0.104	6.813	Nitrate
6	9.52	141.590	1133.244	Sulfate
<hr/>				
6	12.00	146.750	1196.039	

25g → 200µL

OK
CM/7/6

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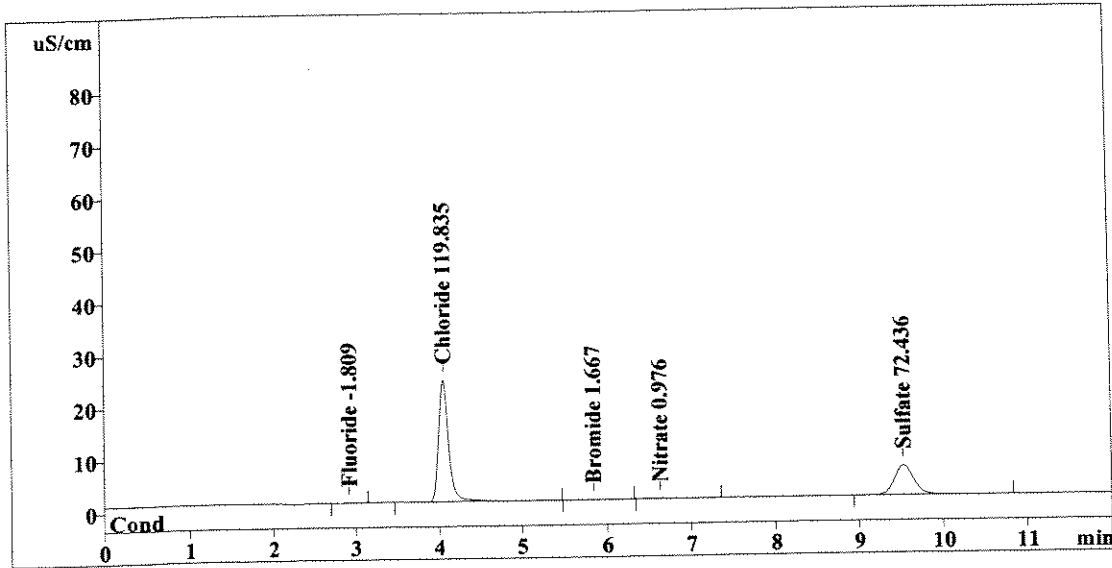
Method 300.0/9056

Report date: 7/7/2008 12:22:21
 Printed by: User
 Ident: 1112365
 Analysis from: 7/3/2008 13:52:47
 File: s7031352.chw

Last save: 7/3/2008 14:04:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37833
 SAMPLE: EXTRACTION - S
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.542	-1.809	Fluoride
2	4.05	194.438	119.835	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	0.500	1.667	Bromide
5	6.63	1.331	0.976	Nitrate
6	9.53	90.889	72.436	Sulfate
6	12.00	287.700	196.723	

25g → 250ml

*OK
7/7/08*

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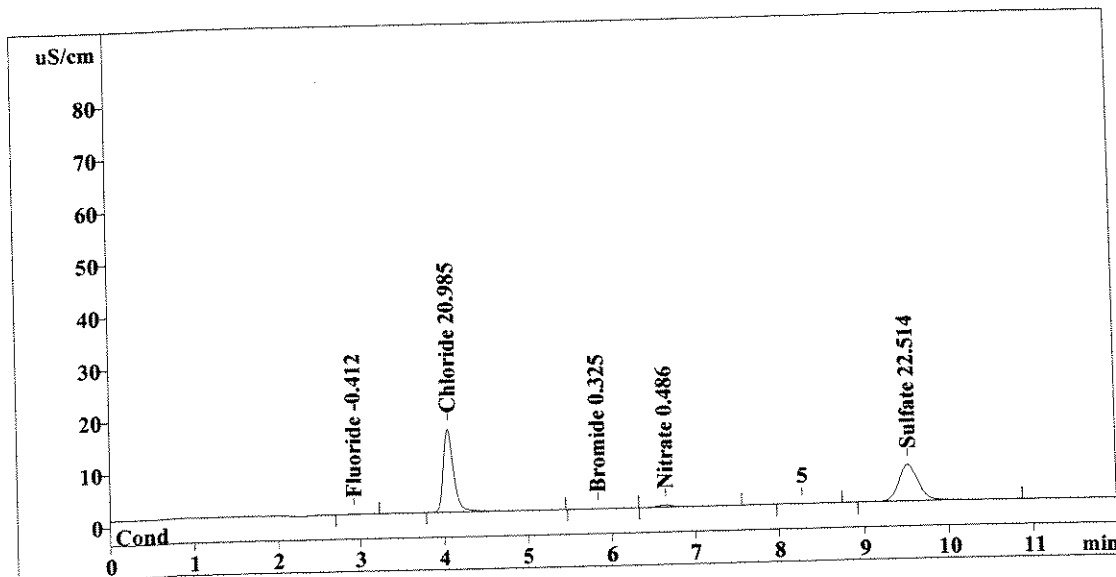
Method 300.0/9056

Report date: 7/7/2008 12:22:25
 Printed by: User
 Ident: 1111897
 Analysis from: 7/3/2008 14:06:52
 File: s7031406.chw

Last save: 7/3/2008 14:18:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37834
 SAMPLE: CS
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.982	-0.412	Fluoride
2	4.05	135.742	20.985	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.85	0.240	0.325	Bromide
5	6.64	5.357	0.486	Nitrate
6	9.52	112.738	22.514	Sulfate
<hr/>				
6	12.00	255.059	44.722	

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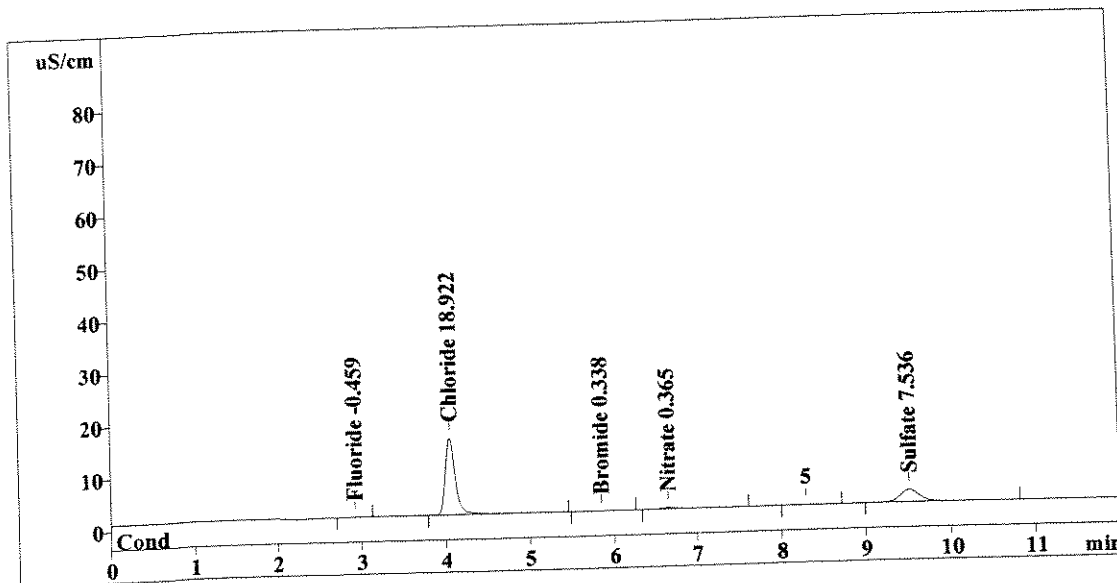
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/7/2008 12:22:29
 Printed by: User
 Ident: 1111898
 Analysis from: 7/3/2008 14:20:58
 File: s7031420.chw

Method 300.0/9056

Last save: 7/3/2008 14:32:54

Last save: 7/3/2008 10:07:11

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37835
 SAMPLE: CS
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.463	-0.459	Fluoride
2	4.05	122.249	18.922	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.85	0.277	0.338	Bromide
5	6.65	3.335	0.365	Nitrate
6	9.52	38.450	7.536	Sulfate
6		12.00	164.773	27.621

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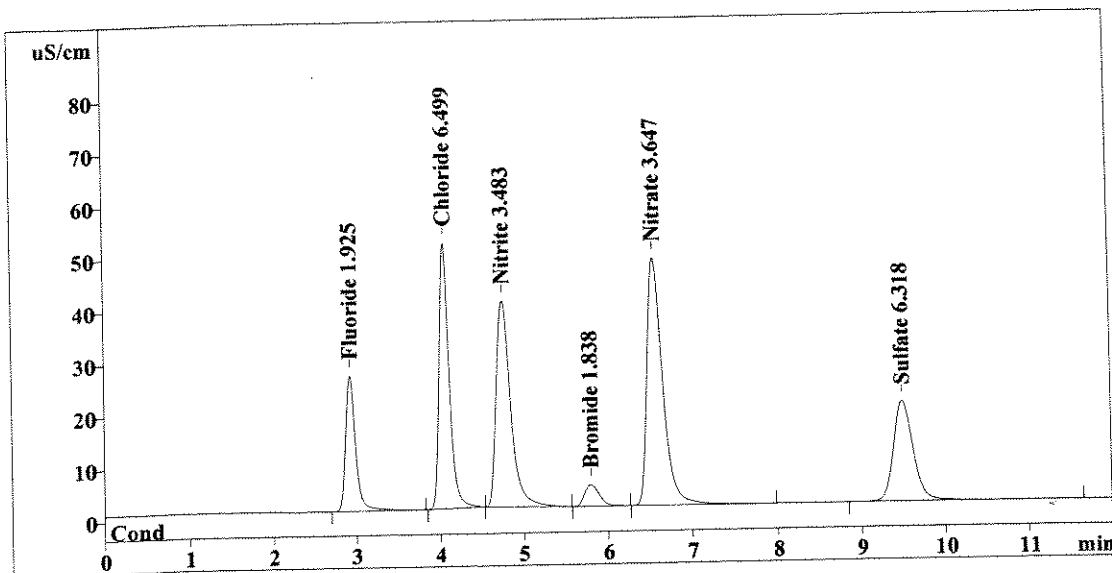
Method 300.0/9056

Report date: 7/7/2008 12:22:40
 Printed by: User
 Ident: CCV
 Analysis from: 7/3/2008 14:35:04
 File: s7031435.chw

Last save: 7/3/2008 14:47:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37836
 SAMPLE:
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	215.111	1.925	Fluoride
2	4.05	423.587	6.499	Chloride
3	4.75	474.006	3.483	Nitrite
4	5.79	51.289	1.838	Bromide
5	6.56	603.861	3.647	Nitrate
6	9.50	314.420	6.318	Sulfate
<hr/>				
6	12.00	2082.273	23.711	

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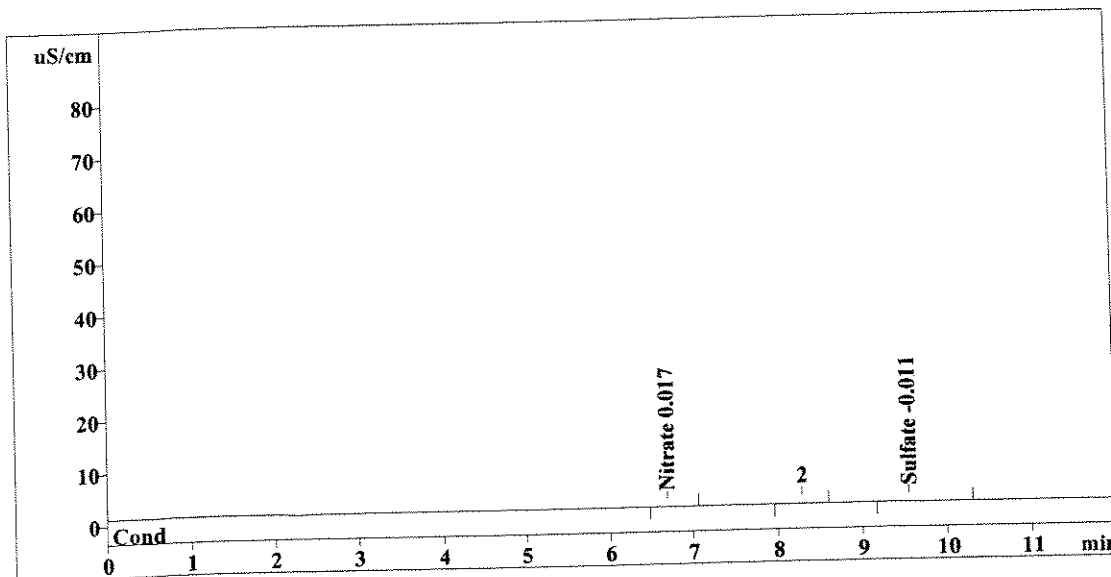
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/7/2008 12:22:44
 Printed by: User
 Ident: CCB
 Analysis from: 7/3/2008 14:49:11
 File: s7031449.chw

Method 300.0/9056

Last save: 7/3/2008 15:01:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37837
 SAMPLE:
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.68	0.066	0.017	Nitrate
6	9.55	0.522	-0.011	Sulfate
<hr/>				
6	12.00	0.588	0.028	

Handwritten notes: 'OK' with a downward arrow pointing to the Nitrate row, and a signature 'WJ/08' below the table.

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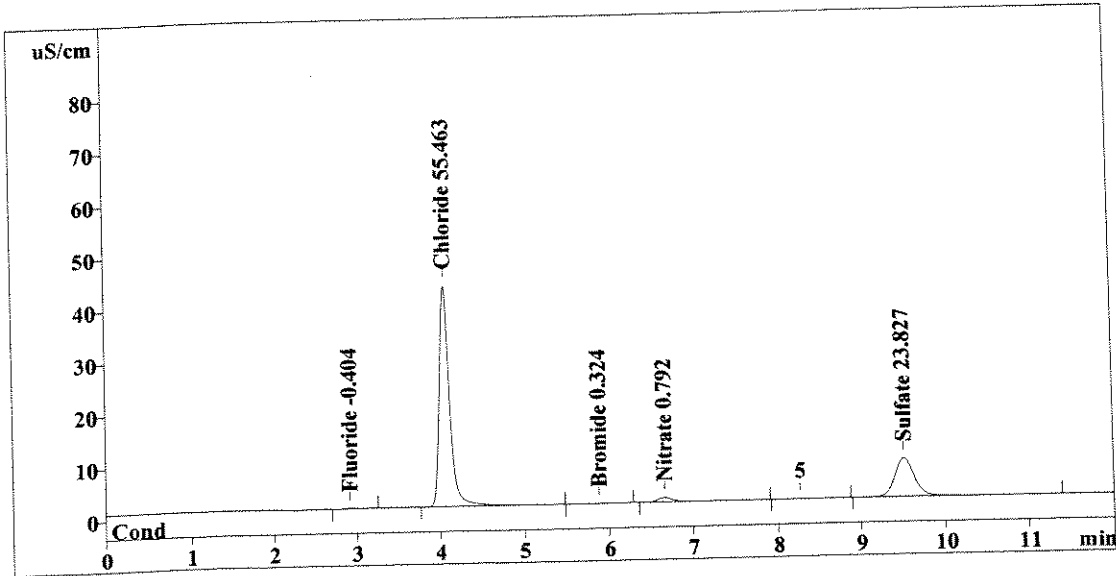
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/7/2008 12:22:47
 Printed by: User
 Ident: 1111899
 Analysis from: 7/3/2008 15:05:56
 File: s7031505.chw

Method 300.0/9056

Last save: 7/3/2008 15:17:52

Last save: 7/3/2008 10:07:11

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37838
 SAMPLE: S
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	1.064	-0.404	Fluoride
2	4.05	361.258	55.463	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	0.238	0.324	Bromide
5	6.66	10.444	0.792	Nitrate
6	9.51	119.251	23.827	Sulfate
<hr/>				
6	12.00	492.255	80.810	

Handwritten notes: A checkmark is next to the 6th row. Below the table, there is a signature and the date "7/7/08".

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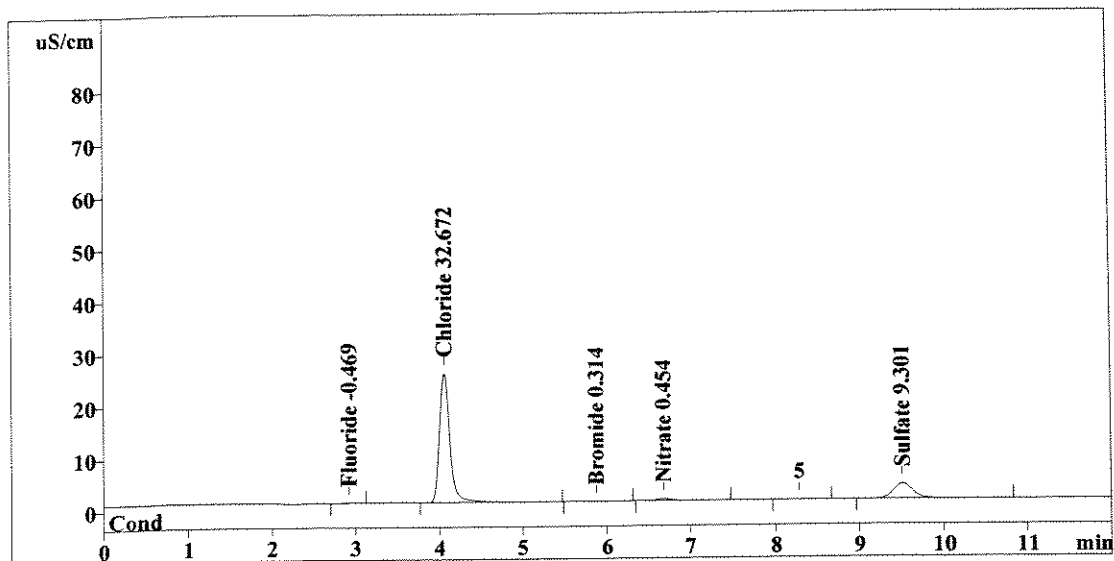
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/7/2008 12:22:50
 Printed by: User
 Ident: 1111983
 Analysis from: 7/3/2008 15:20:02
 File: s7031520.chw

Method 300.0/9056

Last save: 7/3/2008 15:31:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37839
 SAMPLE: S
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.361	-0.469	Fluoride
2	4.05	212.187	32.672	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	0.210	0.314	Bromide
5	6.67	4.820	0.454	Nitrate
6	9.51	47.201	9.301	Sulfate
<hr/>				
6	12.00	264.780	43.210	

OK
CM
7/7/08

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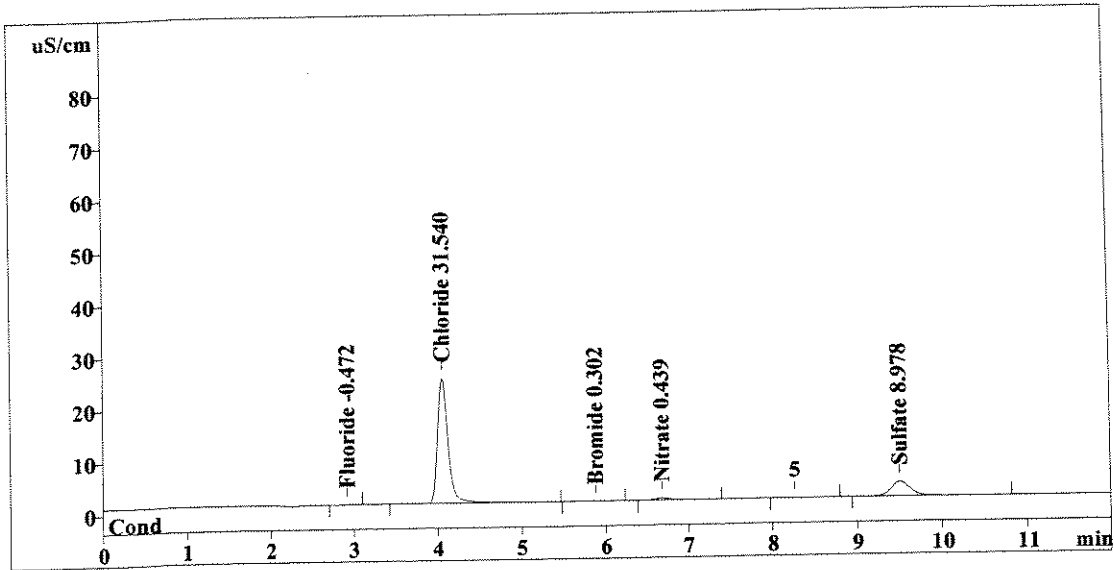
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/7/2008 12:22:55
 Printed by: User
 Ident: 1111983 DUP
 Analysis from: 7/3/2008 15:34:08
 File: s7031534.chw

Method 300.0/9056

Last save: 7/3/2008 15:46:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37840
 SAMPLE: S
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.323	-0.472	Fluoride
2	4.05	204.781	31.540	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	0.177	0.302	Bromide
5	6.68	4.570	0.439	Nitrate
6	9.51	45.602	8.978	Sulfate
<hr/>				
6	12.00	255.454	41.732	

OK
SM
7/7/08

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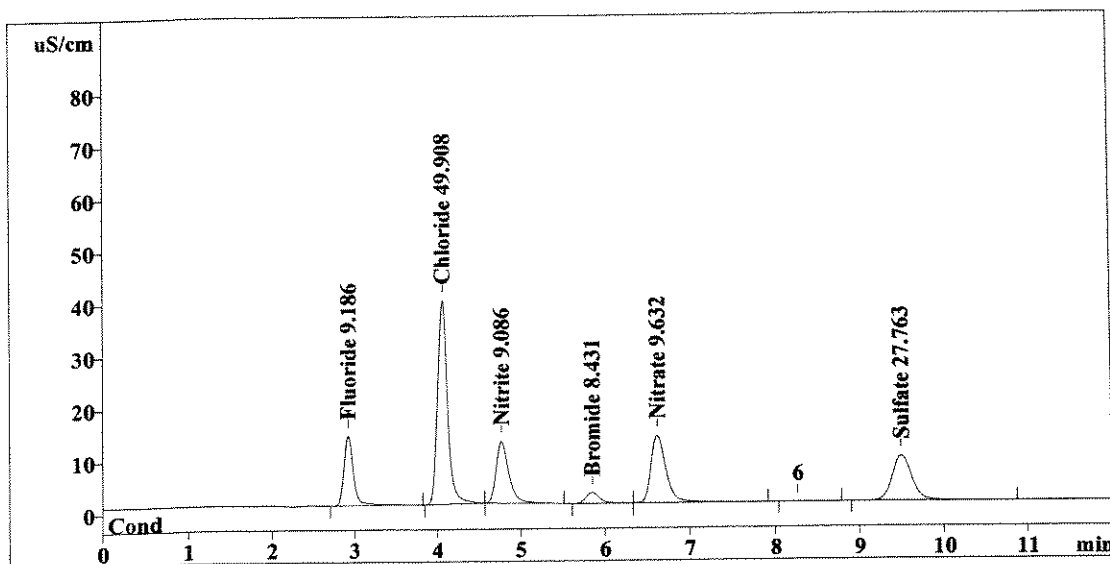
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/7/2008 12:22:58
 Printed by: User
 Ident: 1111983 SPK
 Analysis from: 7/3/2008 15:48:14
 File: s7031548.chw

Method 300.0/9056

Last save: 7/3/2008 16:00:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37841
 SAMPLE: S
 Vial number: 20
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	105.492	9.186	Fluoride
2	4.05	324.924	49.908	Chloride
3	4.77	124.174	9.086	Nitrite
4	5.85	23.157	8.431	Bromide
5	6.62	157.476	9.632	Nitrate
6	9.50	138.774	27.763	Sulfate
<hr/>				
6	12.00	873.997	114.006	

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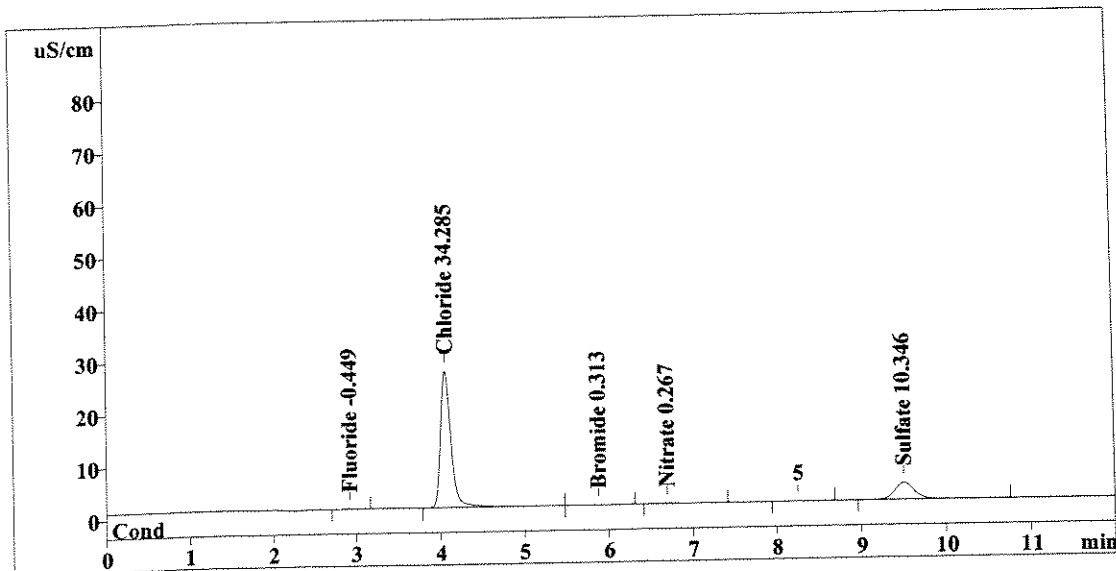
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/7/2008 12:23:01
 Printed by: User
 Ident: 1111984
 Analysis from: 7/3/2008 16:02:20
 File: s7031602.chw

Method 300.0/9056

Last save: 7/3/2008 16:14:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37842
 SAMPLE: S
 Vial number: 21
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.578	-0.449	Fluoride
2	4.06	222.734	34.285	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.88	0.206	0.313	Bromide
5	6.69	1.705	0.267	Nitrate
6	9.51	52.384	10.346	Sulfate
<hr/>				
6	12.00	277.608	45.659	

OK
CMT
7/7/08

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 Columbia Analytical Services
 Rochester, NY 14609

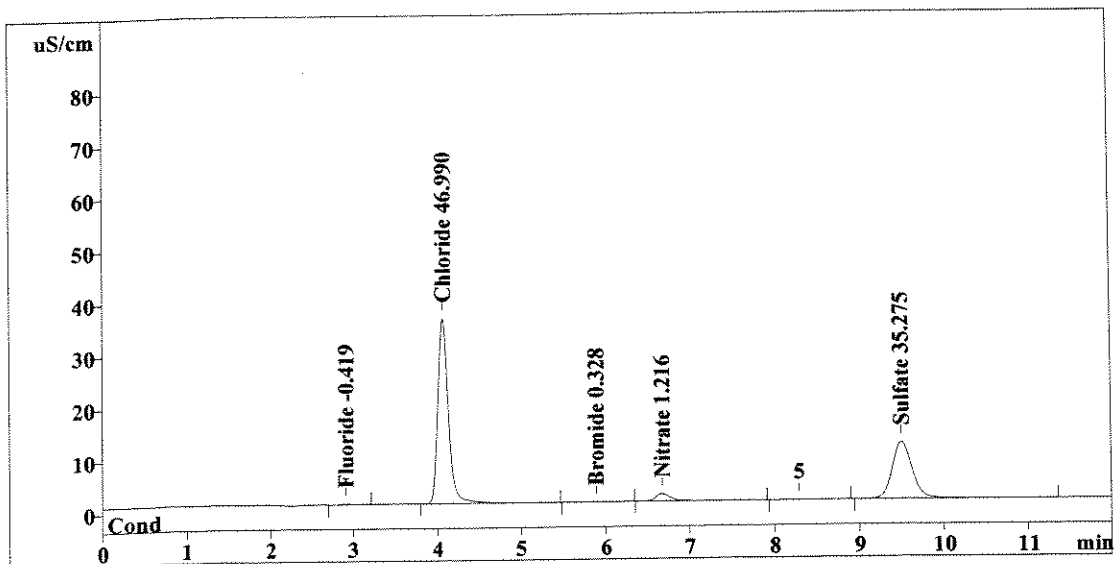
Method 300.0/9056

Report date: 7/7/2008 12:23:04
 Printed by: User
 Ident: 1111985
 Analysis from: 7/3/2008 16:16:26
 File: s7031616.chw

Last save: 7/3/2008 16:28:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37843
 SAMPLE: S
 Vial number: 22
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.905	-0.419	Fluoride
2	4.06	305.838	46.990	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	0.250	0.328	Bromide
5	6.67	17.501	1.216	Nitrate
6	9.50	176.031	35.275	Sulfate
<hr/>				
6	12.00	500.526	84.229	

OK
7/7/08

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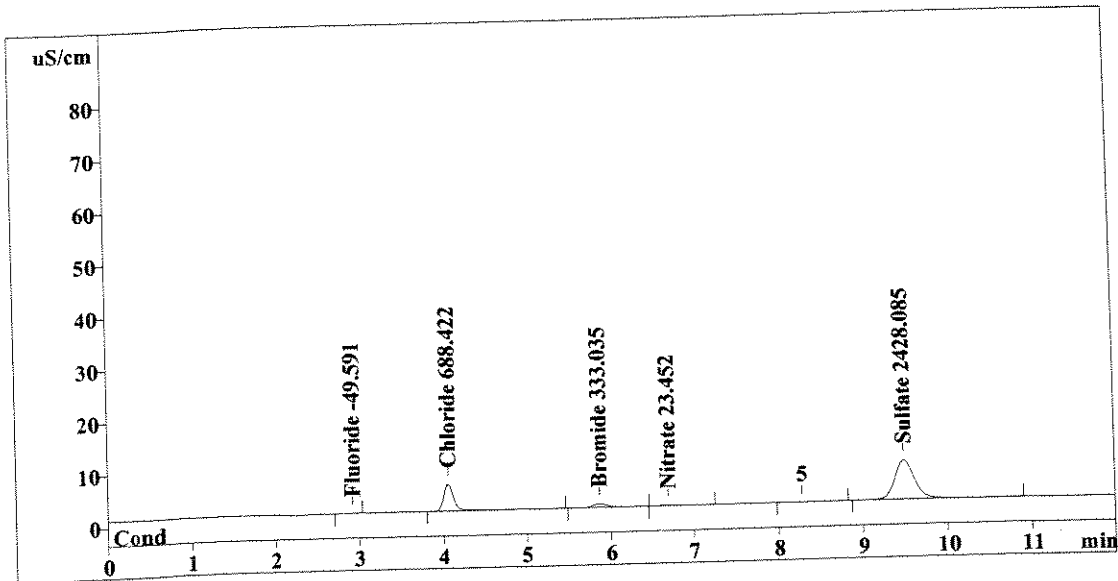
Ion Chromatography Analytical Report
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 Report date: 7/7/2008 12:23:08
 Printed by: User
 Ident: 1112871
 Analysis from: 7/3/2008 16:30:33
 File: s7031630.chw

Method 300.0/9056

Last save: 7/3/2008 16:42:29

Last save: 7/3/2008 10:07:11

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37844
 SAMPLE: S
 Vial number: 23
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.066	-49.591	Fluoride
2	4.05	43.508	688.422	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	8.737	333.035	Bromide
5	6.69	1.172	23.452	Nitrate
6	9.50	121.501	2428.085	Sulfate
6	12.00	174.984	3522.586	

Handwritten notes: 'OK' next to row 6, and 'SMY 7/7/08' next to row 6.

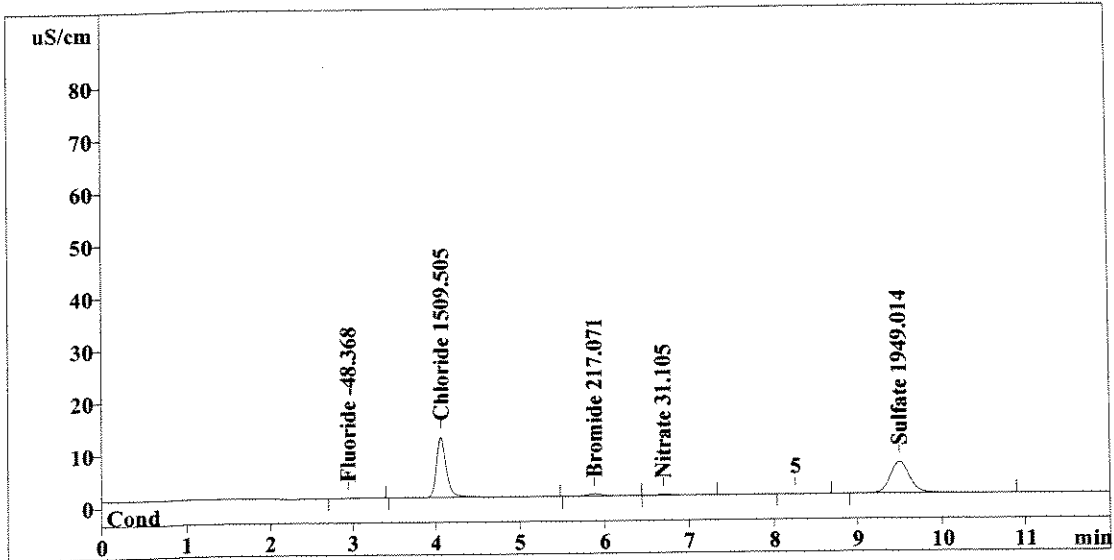
This report has been created by IC Net
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Report date: 7/7/2008 12:23:11
 Printed by: User
 Ident: 1112872
 Analysis from: 7/3/2008 16:44:45
 File: s7031644.chw

Last save: 7/3/2008 16:56:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37845
 SAMPLE: CS
 Vial number: 24
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	0.199	-48.368	Fluoride
2	4.06	97.215	1509.505	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.88	5.459	217.071	Bromide
5	6.69	2.444	31.105	Nitrate
6	9.50	97.739	1949.014	Sulfate
<hr/>				
6	12.00	203.056	3755.063	

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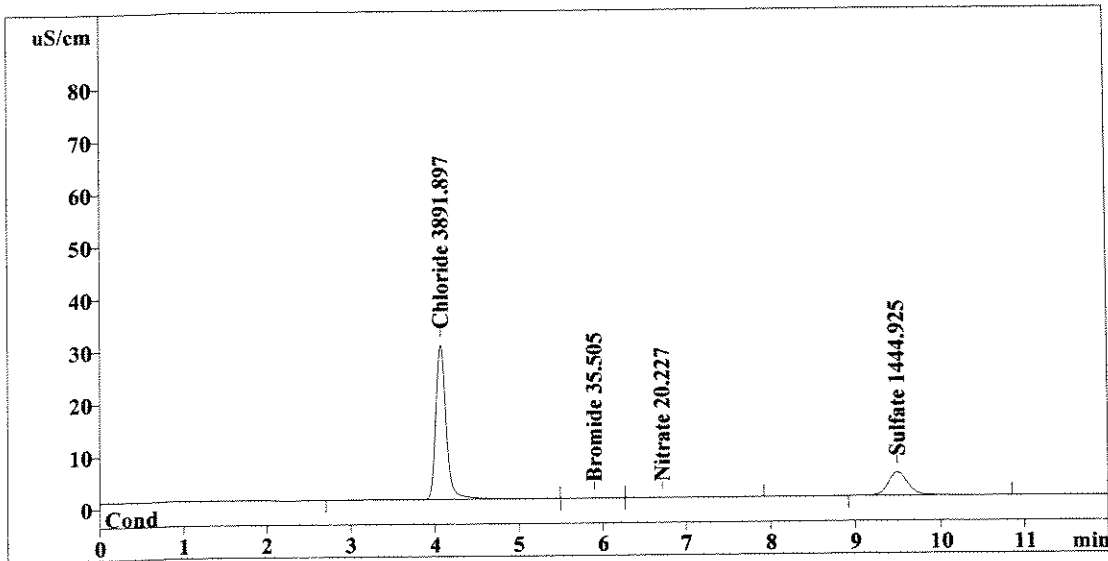
Method 300.0/9056

Report date: 7/7/2008 16:34:06
 Printed by: User
 Ident: 1112874
 Analysis from: 7/3/2008 16:58:51
 File: s7031658.CHW

Last save: 7/7/2008 16:34:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37846
 SAMPLE: S<
 Vial number: 25
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.06	253.046	3891.897	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	0.326	35.505	Bromide
5	6.72	0.635	20.227	Nitrate
6	9.50	72.737	1444.925	Sulfate
6	12.00	326.743	5392.554	

CM
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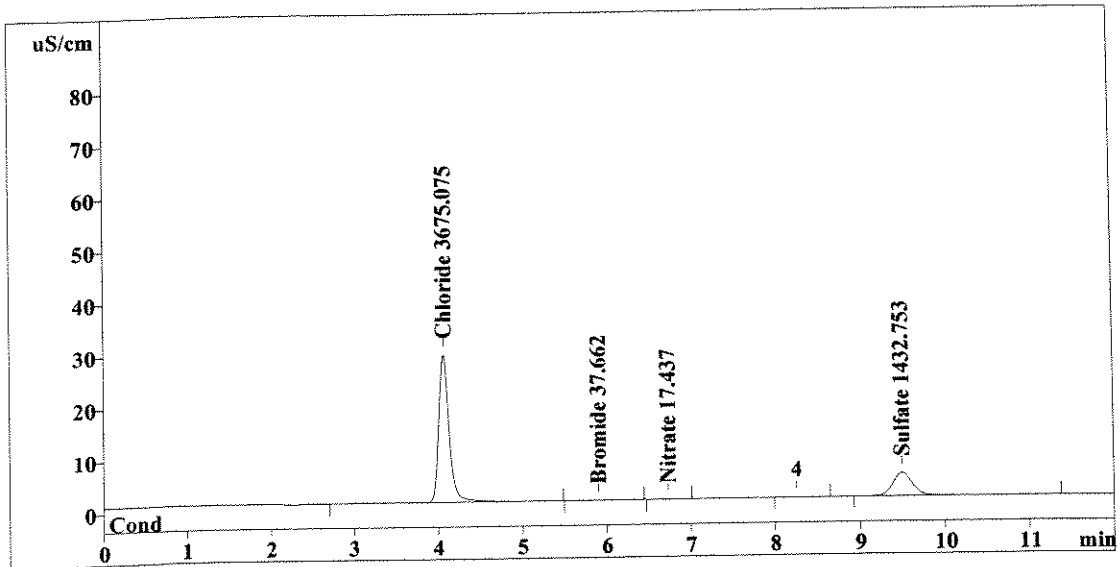
Method 300.0/9056

Report date: 7/7/2008 16:34:07
 Printed by: User
 Ident: 1112874 DUP
 Analysis from: 7/3/2008 17:12:57
 File: s7031712.CHW

Last save: 7/7/2008 16:34:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37847
 SAMPLE: SC
 Vial number: 26
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.06	238.864	3675.075	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	0.387	37.662	Bromide
5	6.73	0.171	17.437	Nitrate
6	9.49	72.133	1432.753	Sulfate
6	12.00	311.554	5162.927	

Handwritten notes: 'OK' next to Chloride, 'OK' next to Sulfate, and a signature 'CMM 7/7/08' over the final row.

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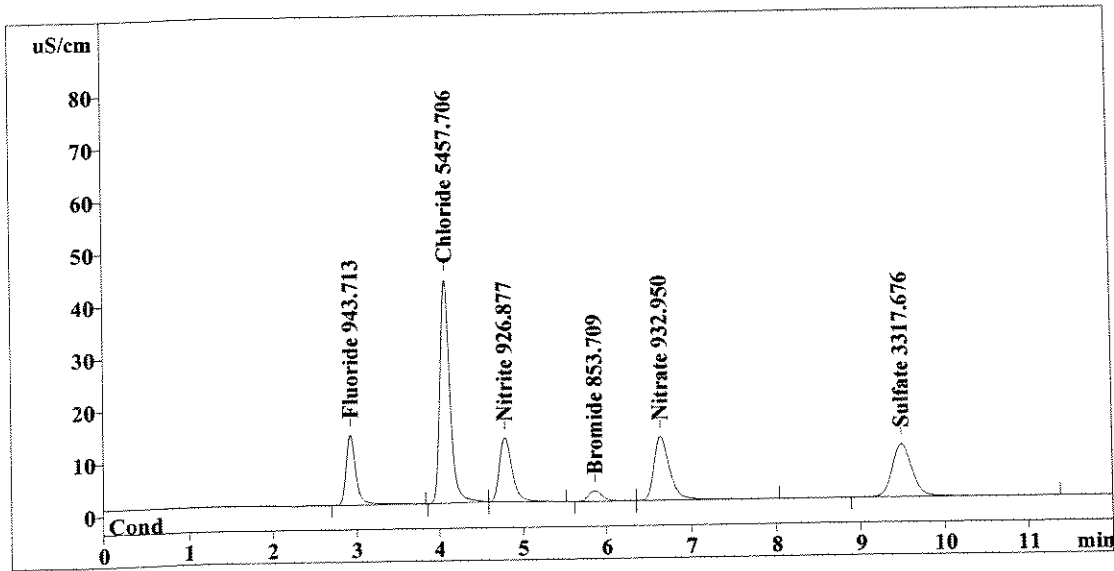
Method 300.0/9056

Report date: 7/7/2008 16:34:08
 Printed by: User
 Ident: 1112874 SPK
 Analysis from: 7/3/2008 17:27:03
 File: s7031727.CHW

Last save: 7/7/2008 16:34:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37848
 SAMPLE: S
 Vial number: 27
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	108.221	943.713	Fluoride
2	4.06	355.465	5457.706	Chloride
3	4.78	126.660	926.877	Nitrite
4	5.86	23.458	853.709	Bromide
5	6.65	152.443	932.950	Nitrate
6	9.49	165.624	3317.676	Sulfate
6		12.00	931.871	12432.631

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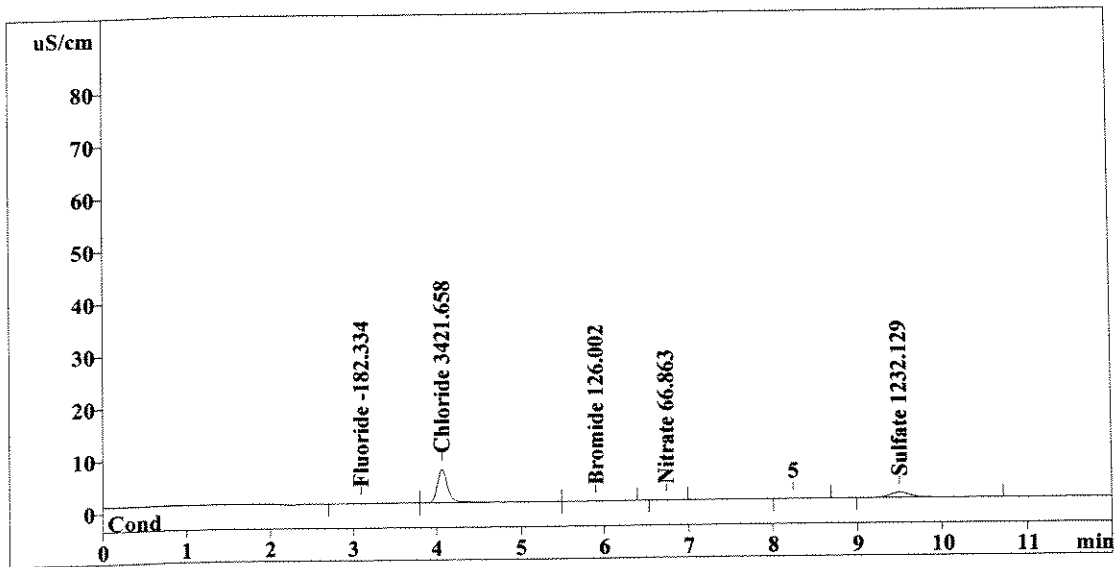
Method 300.0/9056

Report date: 7/7/2008 16:34:09
 Printed by: User
 Ident: 1112874
 Analysis from: 7/3/2008 17:41:09
 File: s7031741.CHW

Last save: 7/7/2008 16:34:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37849
 SAMPLE: C
 Vial number: 28
 Volume: 1.0 µL
 Dilution: 4000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.09	0.502	-182.334	Fluoride
2	4.06	54.431	3421.658	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	0.212	126.002	Bromide
5	6.73	0.051	66.863	Nitrate
6	9.50	16.348	1232.129	Sulfate
6	12.00	71.544	5028.987	

mp + 1/1000

7/7/08

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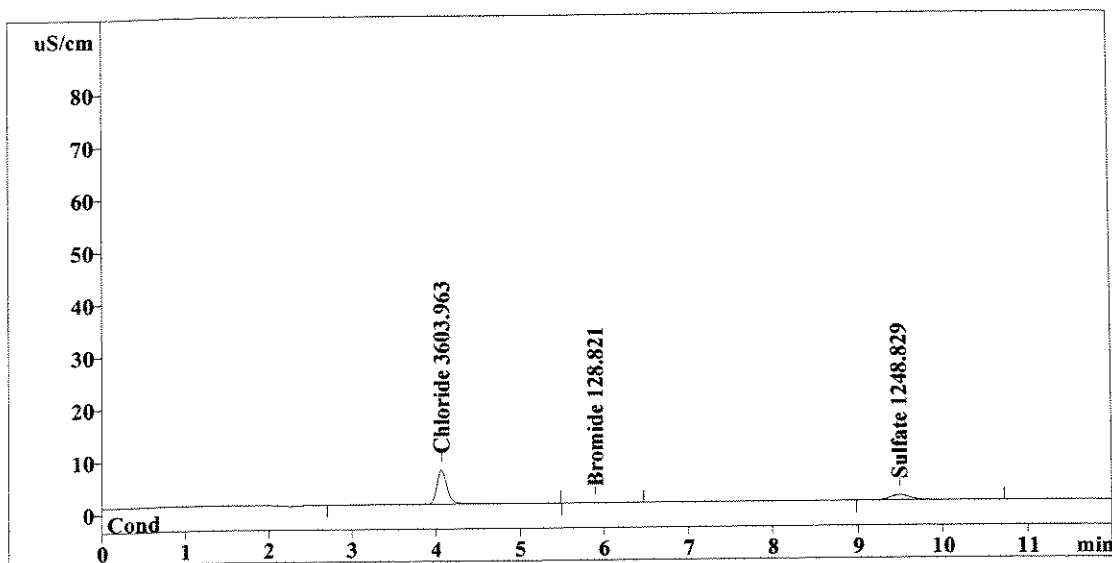
Method 300.0/9056

Report date: 7/7/2008 16:34:10
 Printed by: User
 Ident: 1112874 DUP
 Analysis from: 7/3/2008 17:58:26
 File: s7031758.CHW

Last save: 7/7/2008 16:34:11

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37850
 SAMPLE: C
 Vial number: 29
 Volume: 1.0 µL
 Dilution: 4000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.06	57.412	3603.963	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.232	128.821	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.49	16.555	1248.829	Sulfate
6	12.00	74.199	4981.613	

Handwritten signature/initials

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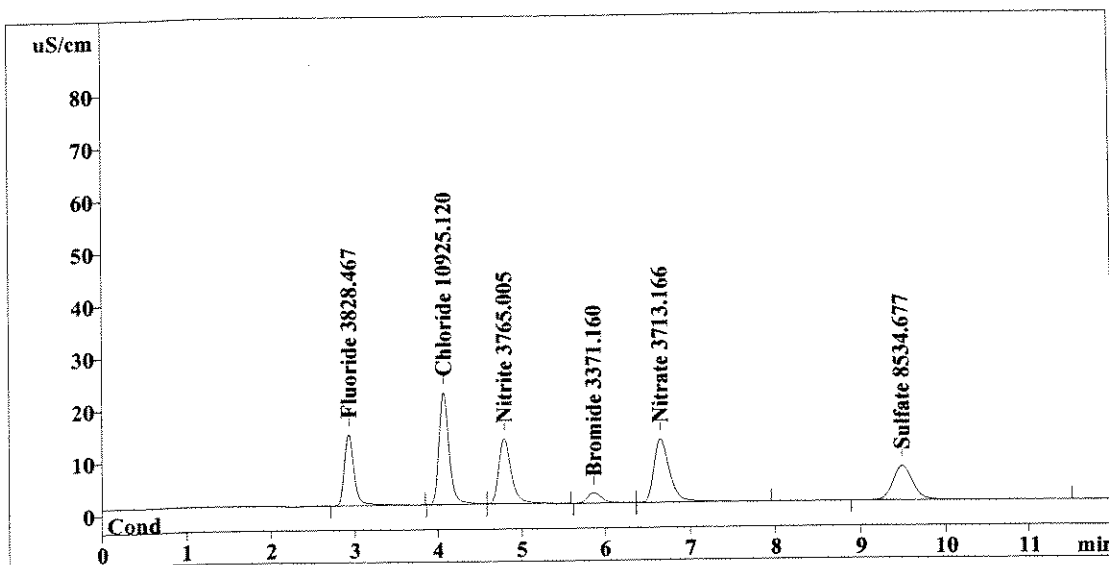
Method 300.0/9056

Report date: 7/7/2008 16:34:11
 Printed by: User
 Ident: 1112874 SPK
 Analysis from: 7/3/2008 18:12:32
 File: s7031812.CHW

Last save: 7/7/2008 16:34:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37851
 SAMPLE: C
 Vial number: 30
 Volume: 1.0 µL
 Dilution: 4000.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	109.681	3828.467	Fluoride
2	4.06	177.130	10925.120	Chloride
3	4.79	128.613	3765.005	Nitrite
4	5.87	23.149	3371.160	Bromide
5	6.66	151.668	3713.166	Nitrate
6	9.49	106.898	8534.677	Sulfate
6	12.00	697.139	34137.594	

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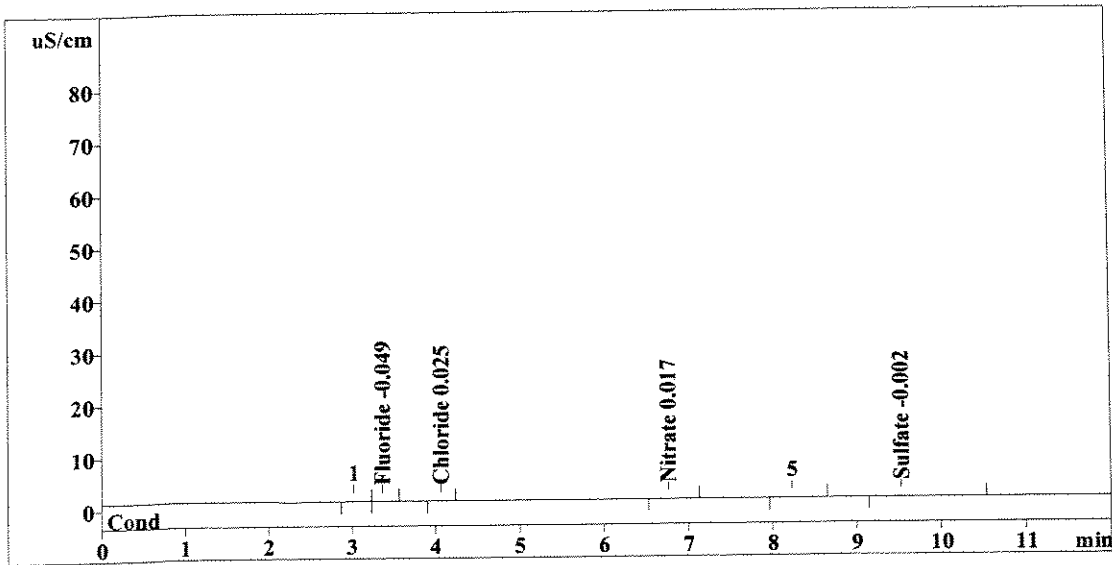
Method 300.0/9056

Report date: 7/7/2008 16:34:12
 Printed by: User
 Ident: METHOD BLANK
 Analysis from: 7/3/2008 18:26:38
 File: s7031826.CHW

Last save: 7/7/2008 16:34:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37852
 SAMPLE: 06/26/2008
 Vial number: 31
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.126	-0.049	Fluoride
2	4.06	0.132	0.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.76	0.148	0.017	Nitrate
6	9.53	0.983	-0.002	Sulfate
6	12.00	1.388	0.093	

25g → 250ml

OK
↓

CMJ
7/7/08

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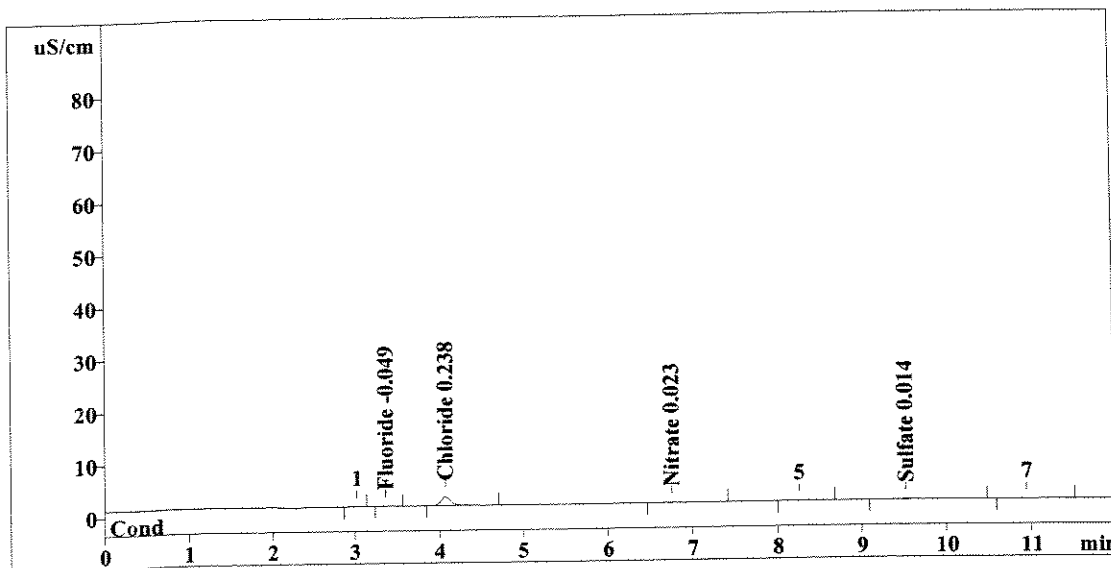
Method 300.0/9056

Report date: 7/7/2008 16:34:13
 Printed by: User
 Ident: METHOD BLANK
 Analysis from: 7/3/2008 18:40:43
 File: s7031840.CHW

Last save: 7/7/2008 16:34:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37853
 SAMPLE: 06/30/2008
 Vial number: 32
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.100	-0.049	Fluoride
2	4.07	14.065	0.238	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.75	1.144	0.023	Nitrate
6	9.52	1.740	0.014	Sulfate
6	12.00	17.049	0.324	

255 7/7/08

OK 7/7/08

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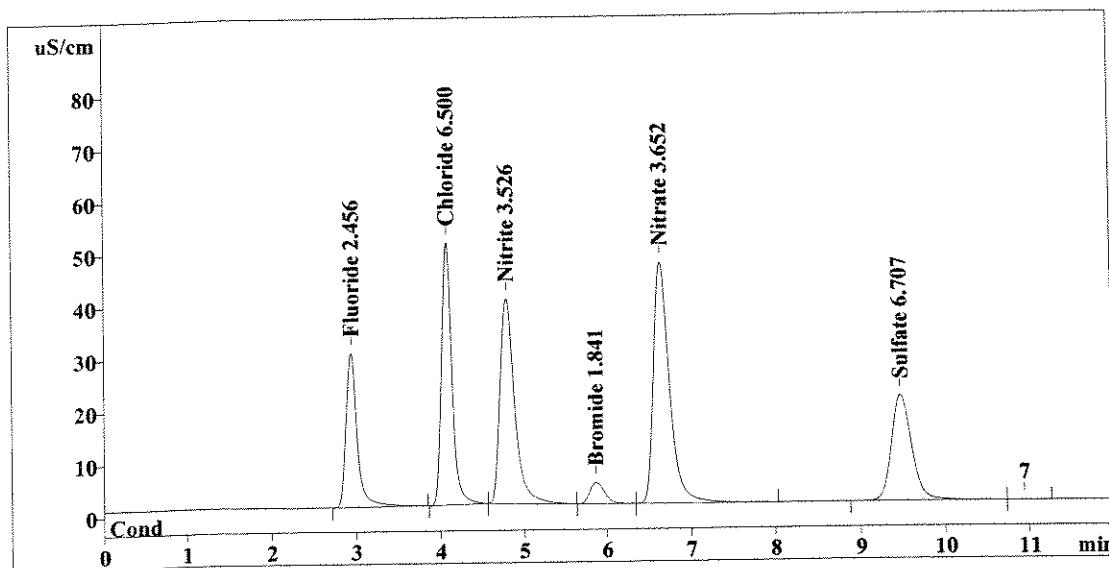
Method 300.0/9056

Report date: 7/7/2008 16:34:14
 Printed by: User
 Ident: CCV
 Analysis from: 7/3/2008 18:54:49
 File: s7031854.CHW

Last save: 7/7/2008 16:34:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37854
 SAMPLE:
 Vial number: 33
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	272.895	2.456	Fluoride
2	4.07	423.633	6.500	Chloride
3	4.78	479.867	3.526	Nitrite
4	5.86	51.362	1.841	Bromide
5	6.64	604.652	3.652	Nitrate
6	9.48	333.718	6.707	Sulfate
<hr/>				
6	12.00	2166.126	24.682	

OUT HIGH
OK
↓
any 7/7/08

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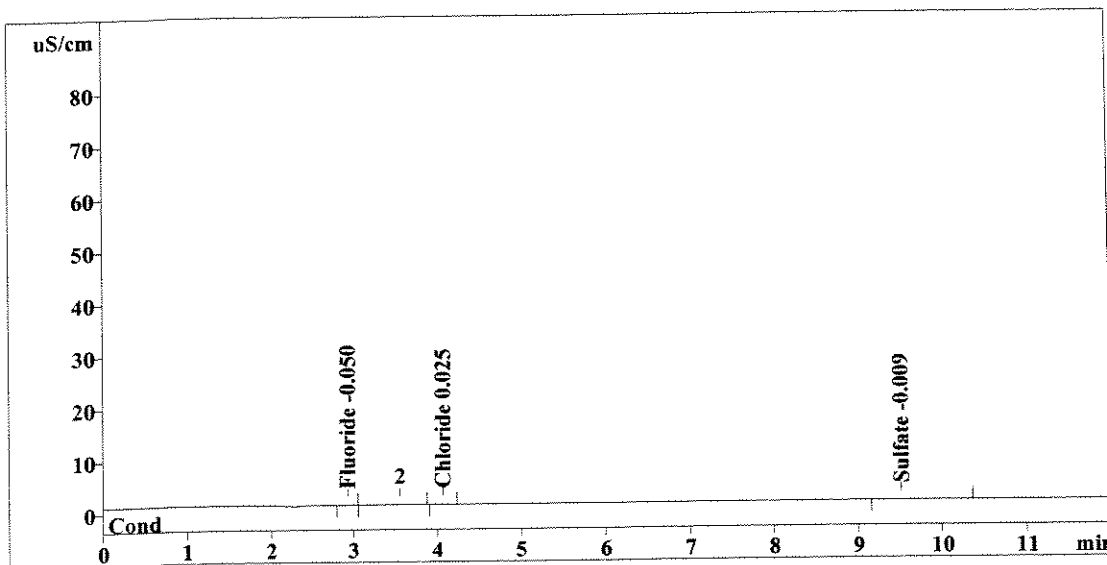
Method 300.0/9056

Report date: 7/7/2008 16:34:15
 Printed by: User
 Ident: CCB
 Analysis from: 7/3/2008 19:08:55
 File: s7031908.CHW

Last save: 7/7/2008 16:34:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37855
 SAMPLE:
 Vial number: 34
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.069	-0.050	Fluoride
2	4.06	0.119	0.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.52	0.621	-0.009	Sulfate
6	12.00	0.809	0.084	

Handwritten notes: An arrow points from the 'Area' column to the 'Conc.' column. A signature and date '7/7/08' are written below the table.

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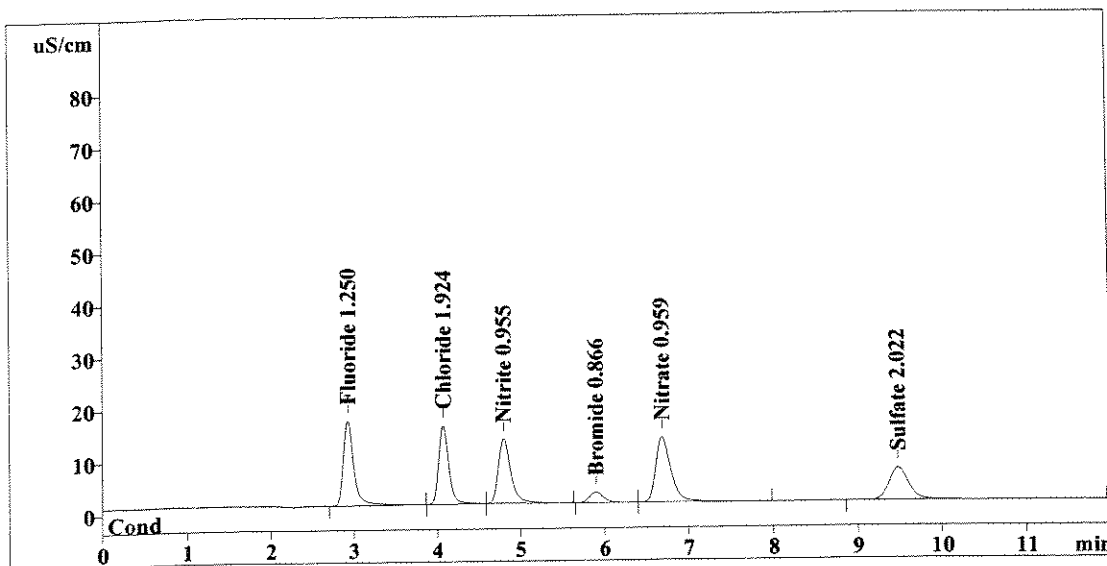
Method 300.0/9056

Report date: 7/7/2008 16:34:16
 Printed by: User
 Ident: LCS
 Analysis from: 7/3/2008 19:23:01
 File: s7031923.CHW

Last save: 7/7/2008 16:34:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37856
 SAMPLE:
 Vial number: 35
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	141.562	1.250	Fluoride
2	4.07	124.346	1.924	Chloride
3	4.79	130.522	0.955	Nitrite
4	5.89	23.815	0.866	Bromide
5	6.68	156.725	0.959	Nitrate
6	9.49	101.368	2.022	Sulfate
6	12.00	678.339	7.977	

Handwritten notes:
 OUT HIGH (next to peak 1)
 OK (next to peak 2)
 OUT LOW (next to peak 4)
 OK (next to peak 5)
 WJG 7/7/08 (signature and date)

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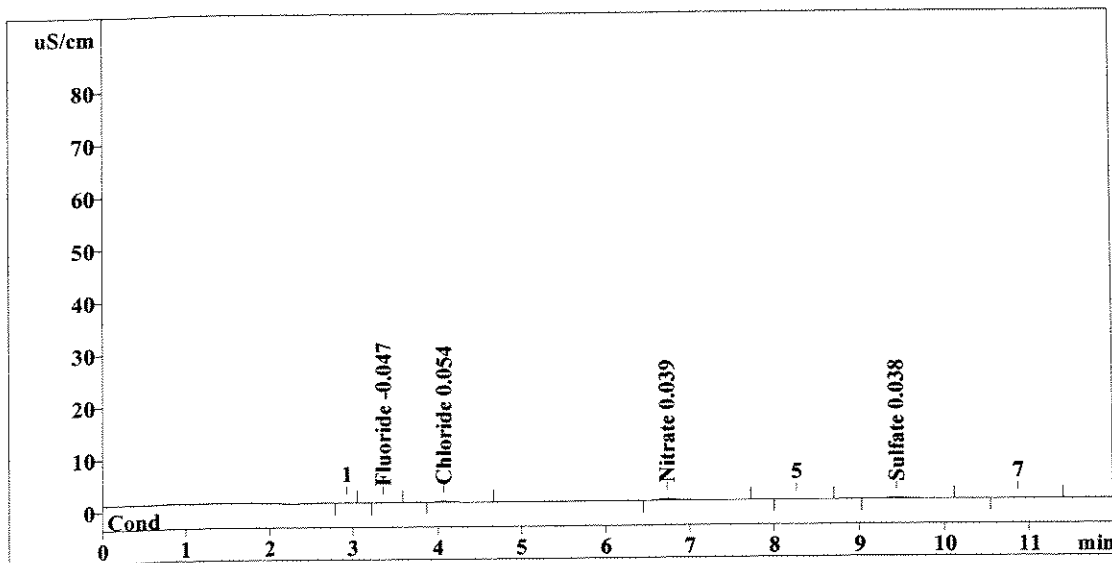
Method 300.0/9056

Report date: 7/7/2008 16:34:17
 Printed by: User
 Ident: METHOD BLANK
 Analysis from: 7/3/2008 19:37:07
 File: s7031937.CHW

Last save: 7/7/2008 16:34:17

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37857
 SAMPLE: EXTRACTION - CNNS
 Vial number: 36
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.329	-0.047	Fluoride
2	4.06	2.013	0.054	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.73	3.792	0.039	Nitrate
6	9.44	2.949	0.038	Sulfate
6	12.00	9.083	0.178	

25g done

OK
 ↓
7/7/08

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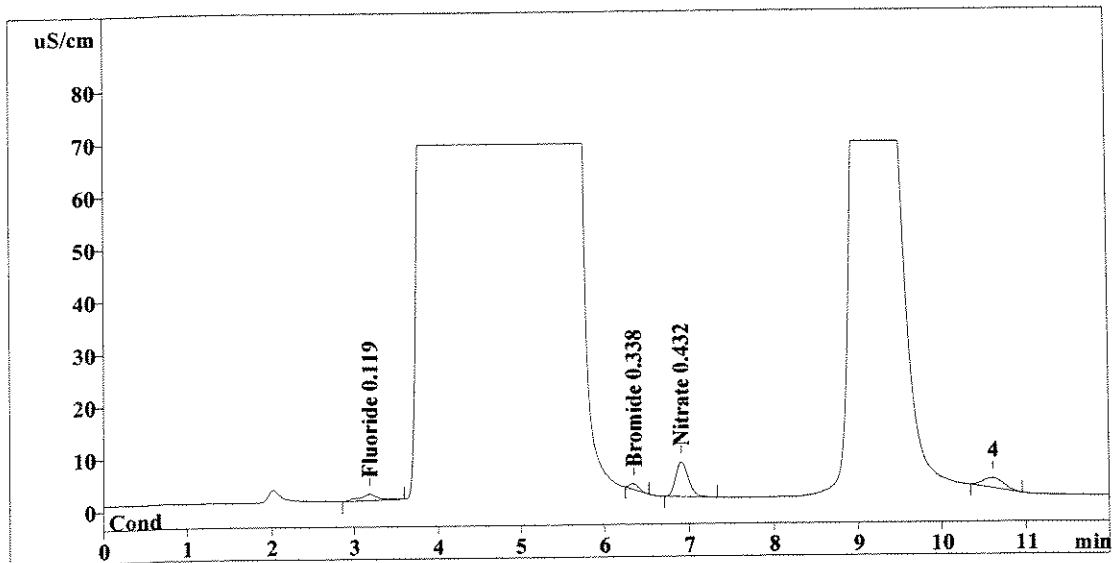
Method 300.0/9056

Report date: 7/7/2008 16:34:18
 Printed by: User
 Ident: 1114366
 Analysis from: 7/3/2008 19:51:13
 File: s7031951.CHW

Last save: 7/7/2008 16:34:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37858
 SAMPLE: EXTRACTION - CNNS
 Vial number: 37
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.18	18.406	0.119	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.35	8.875	0.338	Bromide
5	6.90	69.172	0.432	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	96.452	0.889	

25g → 250ml

*OK
 7/7/08*

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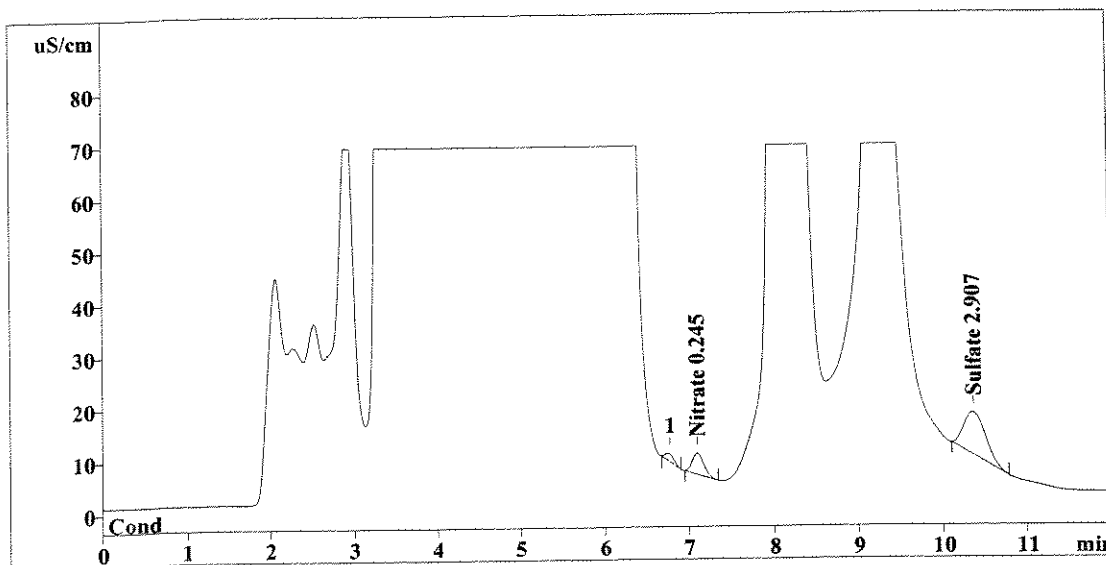
Method 300.0/9056

Report date: 7/7/2008 16:34:19
 Printed by: User
 Ident: 1114376
 Analysis from: 7/3/2008 20:05:19
 File: s7032005.CHW

Last save: 7/7/2008 16:34:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37859
 SAMPLE: EXTRACTION - CNNS
 Vial number: 38
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.10	38.095	0.245	Nitrate
6	10.38	145.240	2.907	Sulfate
<hr/>				
6	12.00	183.335	3.152	

25g → 200ml

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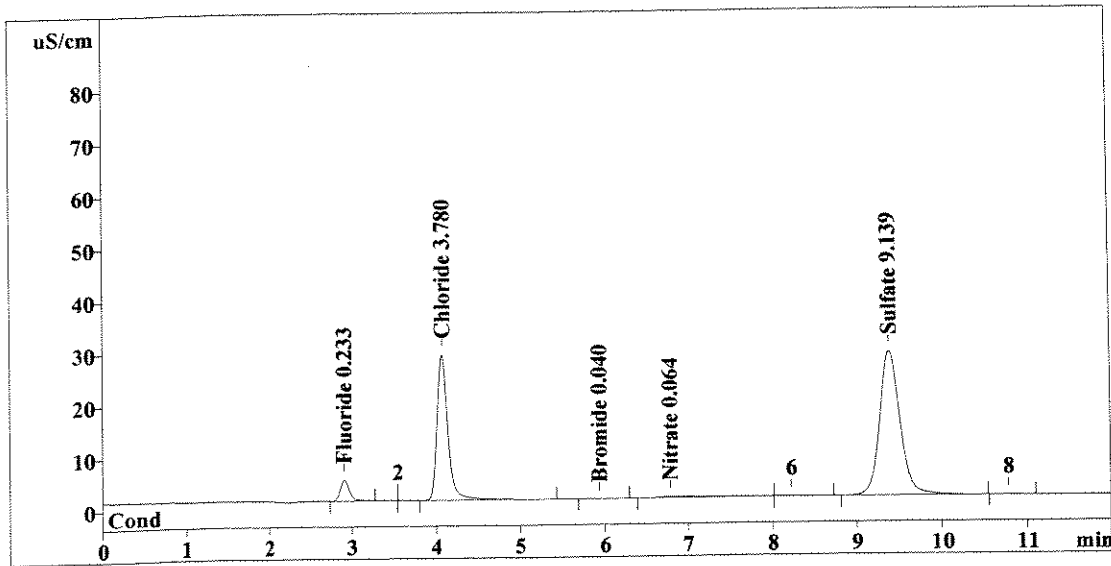
Method 300.0/9056

Report date: 7/7/2008 16:34:20
 Printed by: User
 Ident: 1114379
 Analysis from: 7/3/2008 20:19:24
 File: s7032019.CHW

Last save: 7/7/2008 16:34:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37860
 SAMPLE: EXTRACTION - CNNS
 Vial number: 39
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	30.841	0.233	Fluoride
2	4.06	245.706	3.780	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.93	0.454	0.040	Bromide
5	6.79	7.933	0.064	Nitrate
6	9.40	454.350	9.139	Sulfate
6	12.00	739.283	13.256	

259 → 2008

7/7/08

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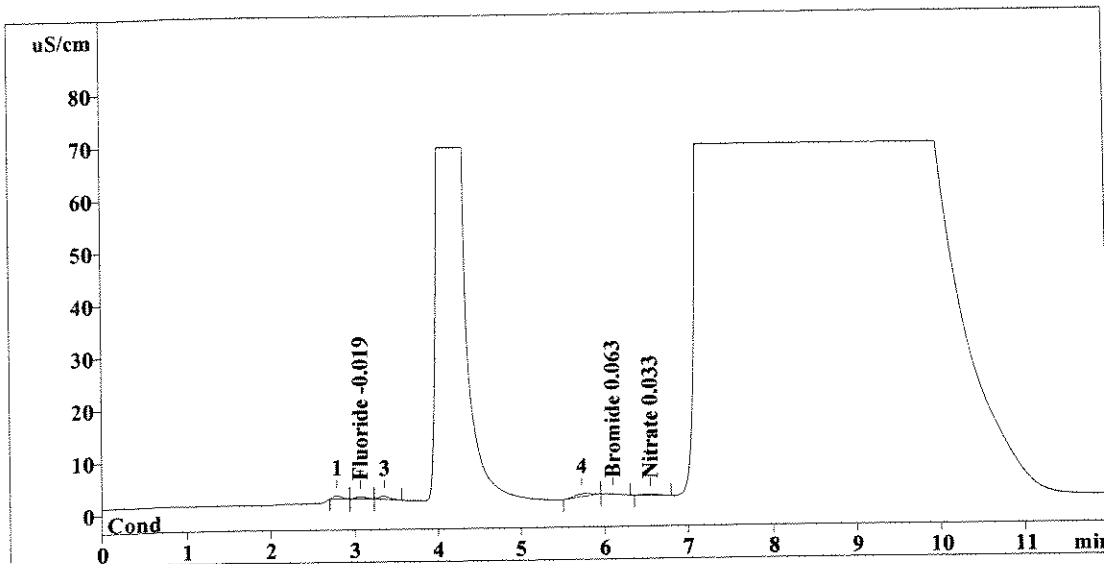
Method 300.0/9056

Report date: 7/7/2008 16:34:21
 Printed by: User
 Ident: 1114380
 Analysis from: 7/3/2008 20:33:30
 File: s7032033.CHW

Last save: 7/7/2008 16:34:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37861
 SAMPLE: EXTRACTION - CNNS
 Vial number: 40
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.06	3.438	-0.019	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.10	1.094	0.063	Bromide
5	6.55	2.780	0.033	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	7.313	0.114	

25g → 200mg

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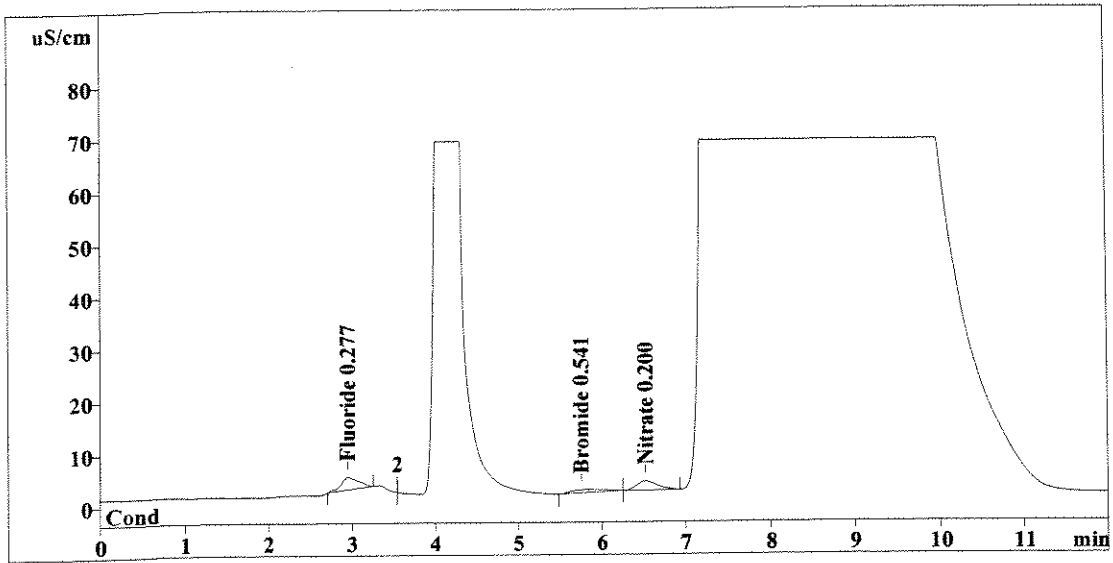
Method 300.0/9056

Report date: 7/7/2008 16:34:21
 Printed by: User
 Ident: 1114380 DUP
 Analysis from: 7/3/2008 20:47:36
 File: s7032047.CHW

Last save: 7/7/2008 16:34:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37862
 SAMPLE: EXTRACTION - CNNS
 Vial number: 41
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	35.591	0.277	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.75	14.613	0.541	Bromide
5	6.52	30.481	0.200	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	80.685	1.017	

255 → 200 ml

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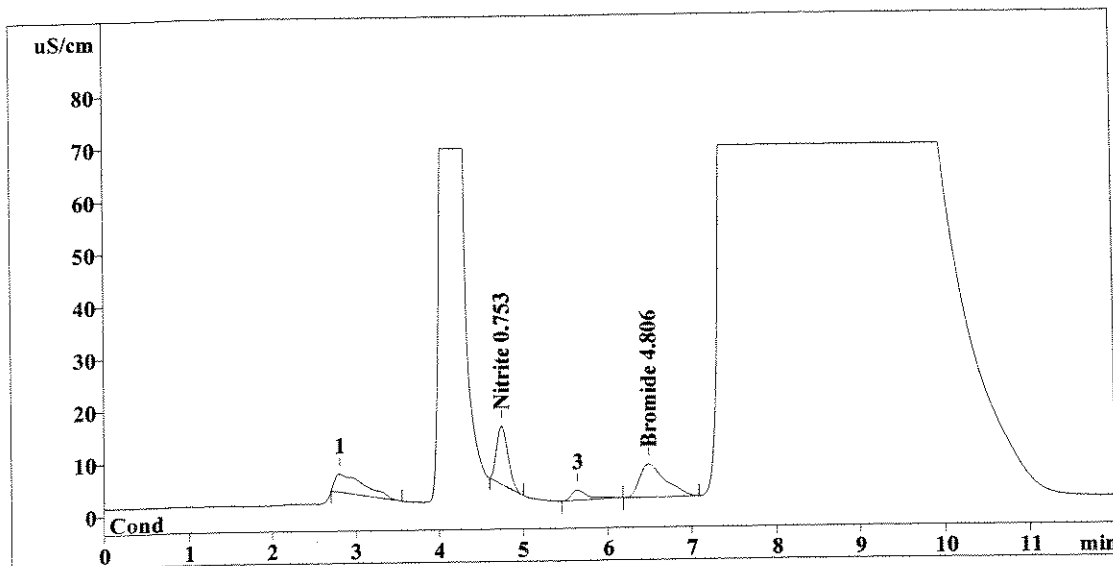
Method 300.0/9056

Report date: 7/7/2008 16:34:22
 Printed by: User
 Ident: 1114380 SPK
 Analysis from: 7/3/2008 21:01:42
 File: s7032101.CHW

Last save: 7/7/2008 16:34:23

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37863
 SAMPLE: EXTRACTION - CNNS
 Vial number: 42
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.75	103.064	0.753	Nitrite
4	6.49	135.209	4.806	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	238.273	5.560	

25g → 222ml

Handwritten signature and date: 7/7/08

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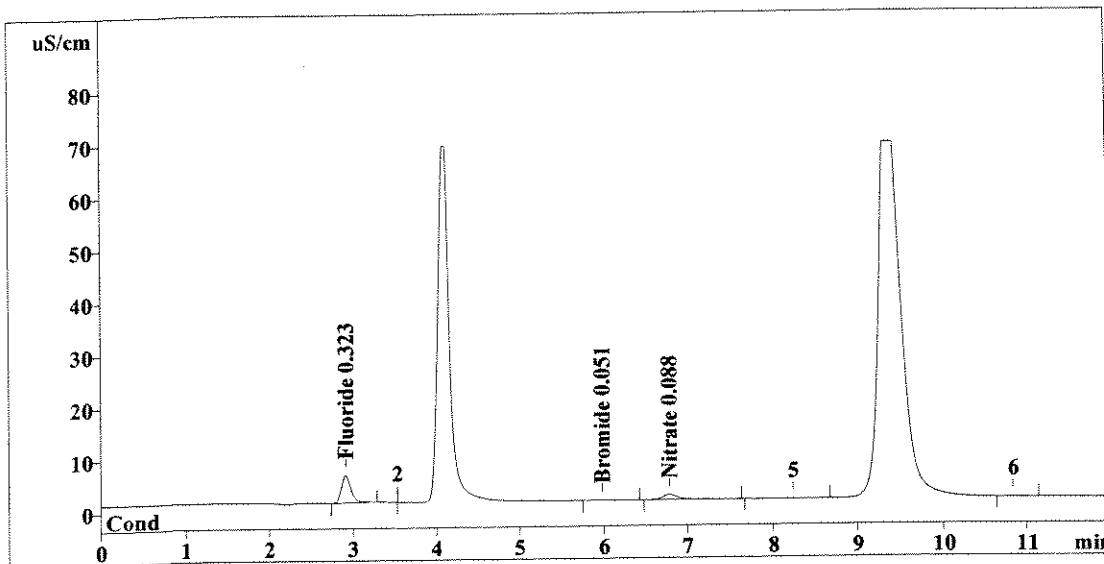
Method 300.0/9056

Report date: 7/7/2008 16:34:23
 Printed by: User
 Ident: 1114382
 Analysis from: 7/3/2008 21:15:48
 File: s7032115.CHW

Last save: 7/7/2008 16:34:24

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37864
 SAMPLE: EXTRACTION - CNNS
 Vial number: 43
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	40.633	0.323	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.768	0.051	Bromide
5	6.79	11.828	0.088	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	53.228	0.462	

25g → 250ml

CV 7/7/08

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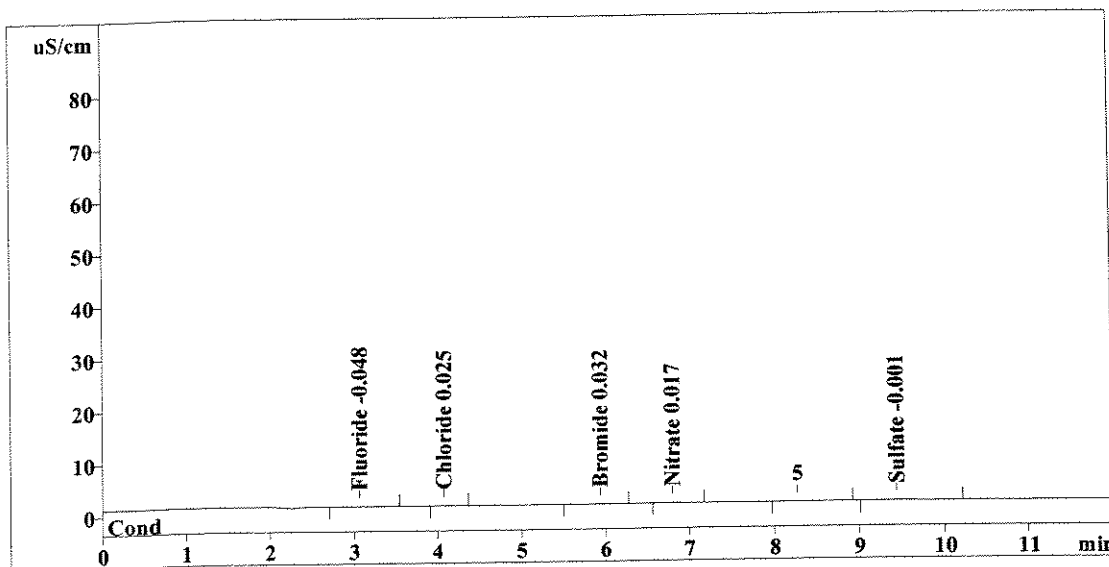
Method 300.0/9056

Report date: 7/7/2008 16:34:24
 Printed by: User
 Ident: EB070208GWI 1114758
 Analysis from: 7/3/2008 21:29:54
 File: s7032129.CHW

Last save: 7/7/2008 16:34:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37865
 SAMPLE: CNNS
 Vial number: 44
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.07	0.276	-0.048	Fluoride
2	4.07	0.146	0.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.94	0.232	0.032	Bromide
5	6.80	0.175	0.017	Nitrate
6	9.44	0.996	-0.001	Sulfate
6	12.00	1.824	0.124	

Handwritten signature and date: CM 7/7/08

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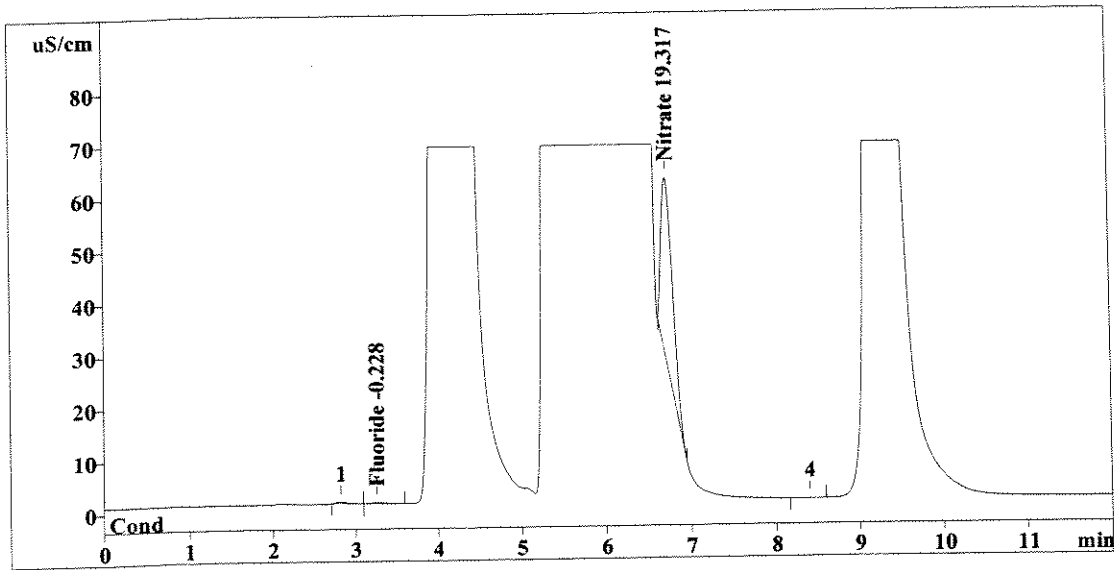
Method 300.0/9056

Report date: 7/7/2008 16:34:25
 Printed by: User
 Ident: M-65B 1114756
 Analysis from: 7/3/2008 21:43:59
 File: s7032143.CHW

Last save: 7/7/2008 16:34:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37866
 SAMPLE: CNNS
 Vial number: 78
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.25	2.985	-0.228	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.72	318.553	19.317	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	321.538	19.544	

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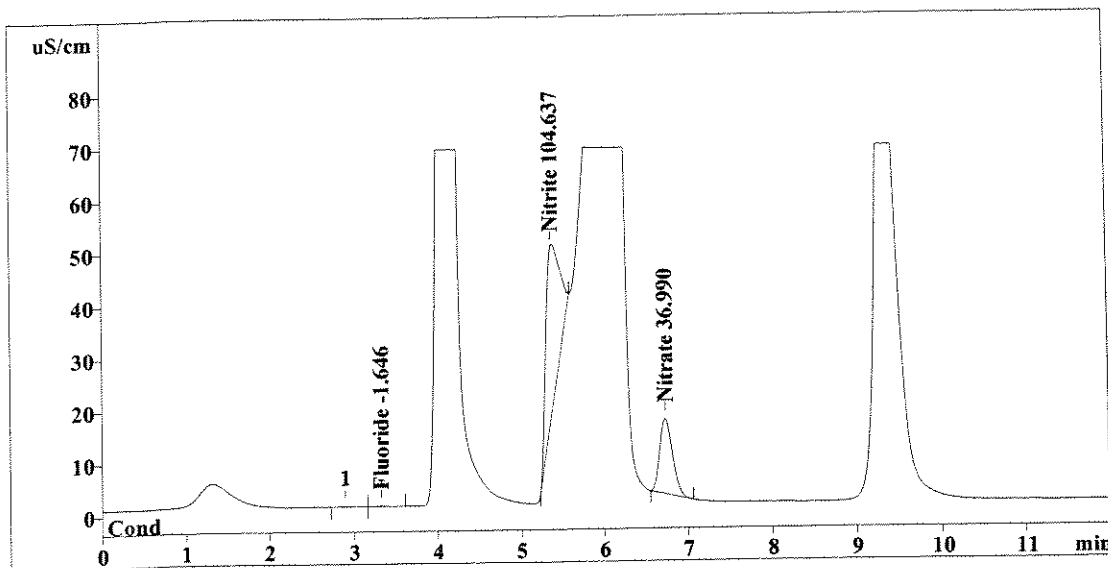
Method 300.0/9056

Report date: 7/7/2008 16:34:26
 Printed by: User
 Ident: M-65B 1114756
 Analysis from: 7/3/2008 21:58:05
 File: s7032158.CHW

Last save: 7/7/2008 16:34:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37867
 SAMPLE: CNNS
 Vial number: 79
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.32	0.985	-1.646	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.35	356.152	104.637	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.73	151.079	36.990	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	508.215	143.273	

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Method 300.0/9056

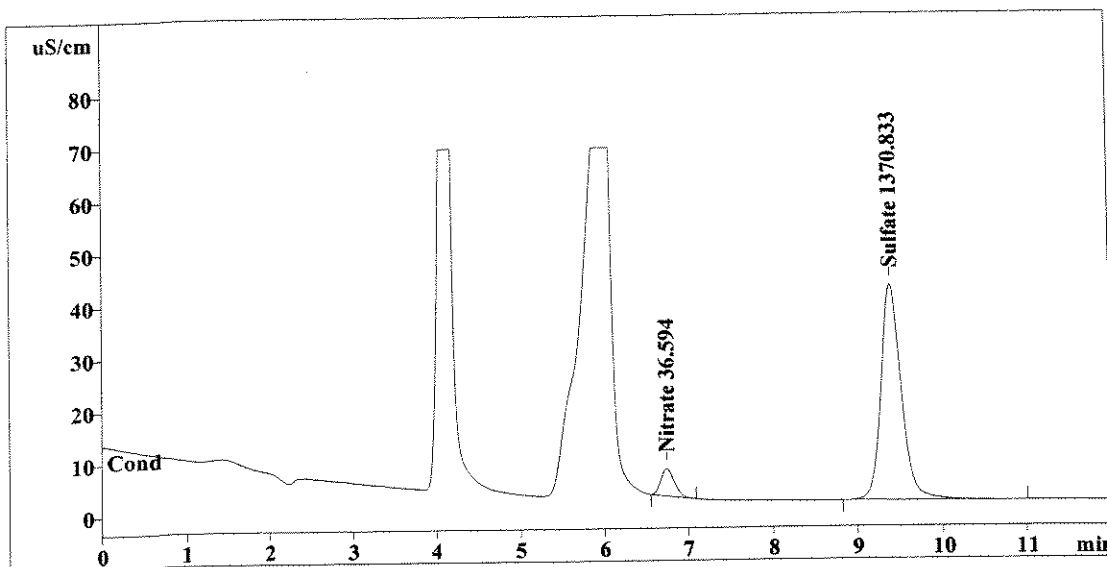
Report date: 7/7/2008 16:34:27
 Printed by: User
 Ident: M-65B
 Analysis from: 7/3/2008 22:12:11
 File: s7032212.CHW

1114756

Last save: 7/7/2008 16:34:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37868
 SAMPLE: CNNS
 Vial number: 80
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.74	58.135	36.594	Nitrate
6	9.40	680.994	1370.833	Sulfate
<hr/>				
6	12.00	739.129	1407.426	

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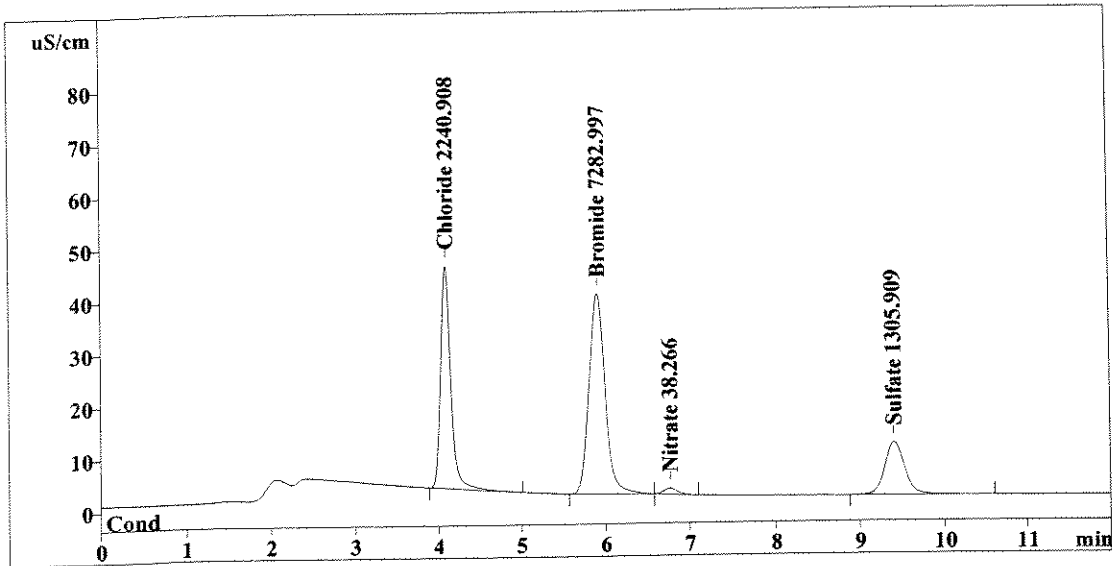
Method 300.0/9056

Report date: 7/7/2008 16:34:28
 Printed by: User
 Ident: M-65B 1114756
 Analysis from: 7/3/2008 22:26:17
 File: s7032226.CHW

Last save: 7/7/2008 16:34:29

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37869
 SAMPLE: CNNS
 Vial number: 81
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.08	364.921	2240.908	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	514.083	7282.997	Bromide
5	6.77	13.182	38.266	Nitrate
6	9.41	163.000	1305.909	Sulfate
<hr/>				
6	12.00	1055.186	10868.079	

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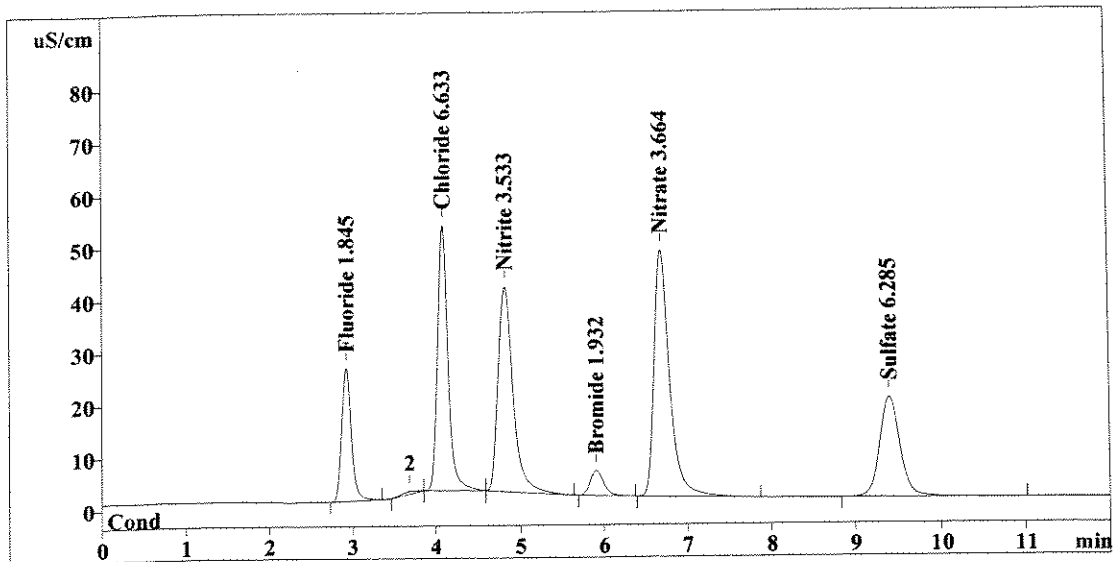
Method 300.0/9056

Report date: 7/7/2008 16:34:29
 Printed by: User
 Ident: CCV
 Analysis from: 7/3/2008 22:40:23
 File: s7032240.CHW

Last save: 7/7/2008 16:34:30

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37870
 SAMPLE:
 Vial number: 82
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	206.320	1.845	Fluoride
2	4.08	432.348	6.633	Chloride
3	4.81	480.803	3.533	Nitrite
4	5.91	53.951	1.932	Bromide
5	6.68	606.703	3.664	Nitrate
6	9.40	312.801	6.285	Sulfate
<hr/>				
6	12.00	2092.926	23.893	

OK
 ↓

CM
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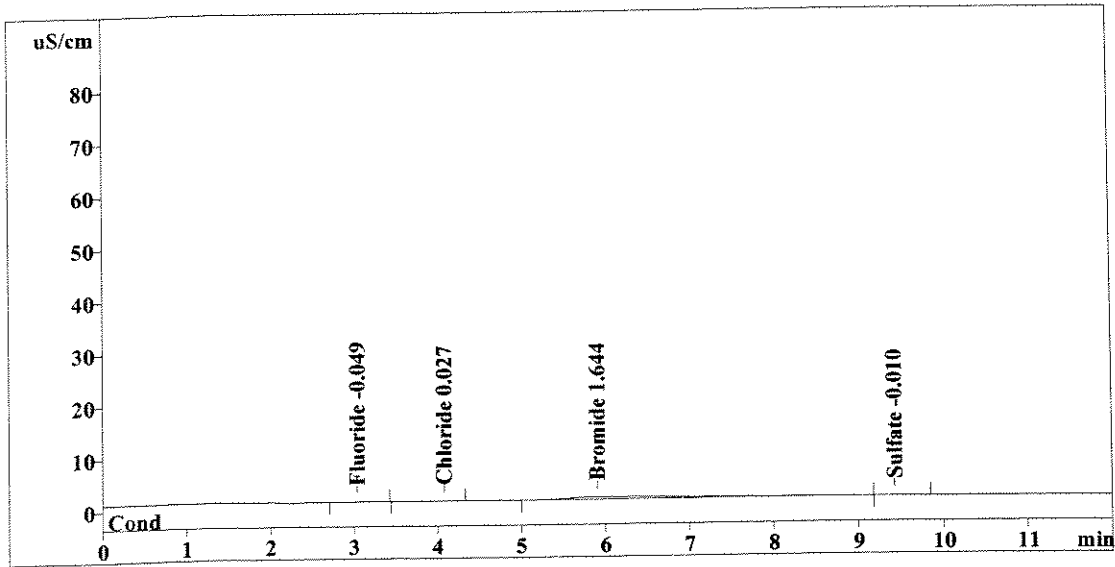
Method 300.0/9056

Report date: 7/7/2008 16:34:30
 Printed by: User
 Ident: CCB
 Analysis from: 7/3/2008 22:54:29
 File: s7032254.CHW

Last save: 7/7/2008 16:34:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37871
 SAMPLE:
 Vial number: 83
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.03	0.178	-0.049	Fluoride
2	4.08	0.214	0.027	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	45.798	1.644	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.43	0.570	-0.010	Sulfate
6	12.00	46.761	1.729	

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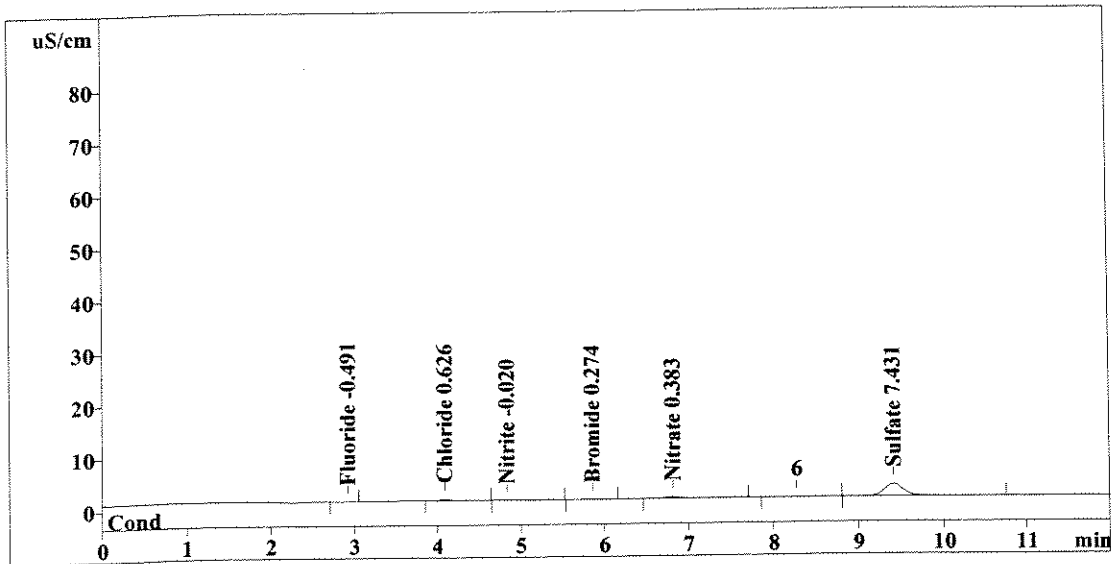
Method 300.0/9056

Report date: 7/7/2008 16:34:31
 Printed by: User
 Ident: 1114737
 Analysis from: 7/3/2008 23:08:34
 File: s7032308.CHW

Last save: 7/7/2008 16:34:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37872
 SAMPLE: NN
 Vial number: 84
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.118	-0.491	Fluoride
2	4.08	2.571	0.626	Chloride
3	4.83	0.456	-0.020	Nitrite
4	5.84	0.095	0.274	Bromide
5	6.81	3.636	0.383	Nitrate
6	9.42	37.928	7.431	Sulfate
6	12.00	44.803	9.224	

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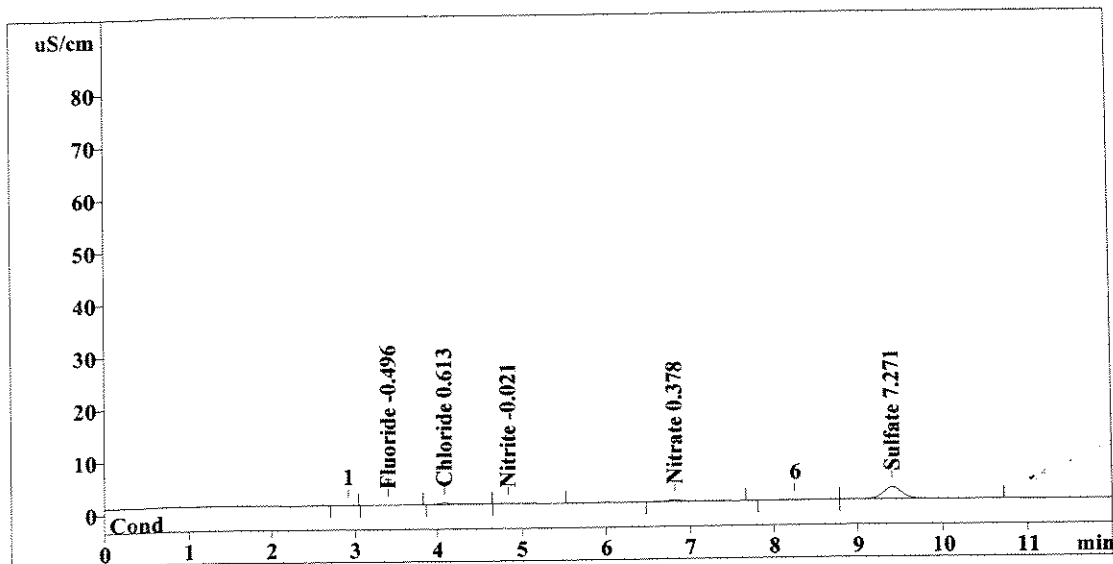
Method 300.0/9056

Report date: 7/7/2008 16:34:32
 Printed by: User
 Ident: 1114737 DUP
 Analysis from: 7/3/2008 23:22:40
 File: s7032322.CHW

Last save: 7/7/2008 16:34:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37873
 SAMPLE: NN
 Vial number: 85
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.40	0.070	-0.496	Fluoride
2	4.08	2.490	0.613	Chloride
3	4.83	0.436	-0.021	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.82	3.561	0.378	Nitrate
6	9.41	37.131	7.271	Sulfate
6	12.00	43.689	8.779	

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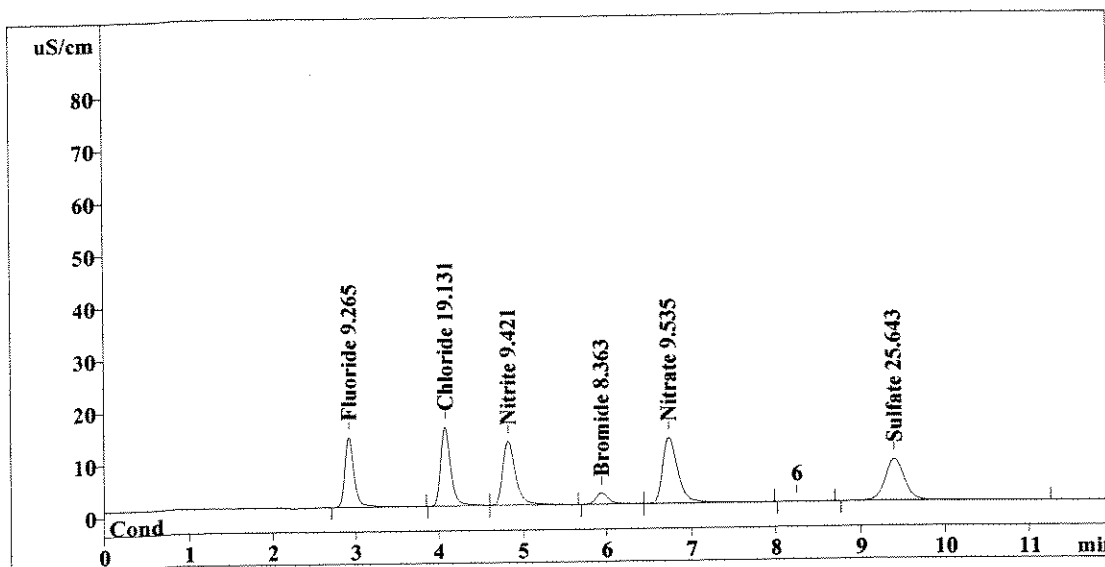
Method 300.0/9056

Report date: 7/7/2008 16:34:33
 Printed by: User
 Ident: 1114737 SPK
 Analysis from: 7/3/2008 23:36:46
 File: s7032336.CHW

Last save: 7/7/2008 16:34:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37874
 SAMPLE: NN
 Vial number: 86
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	106.346	9.265	Fluoride
2	4.08	123.616	19.131	Chloride
3	4.82	128.734	9.421	Nitrite
4	5.94	22.964	8.363	Bromide
5	6.74	155.864	9.535	Nitrate
6	9.40	128.258	25.643	Sulfate
6	12.00	665.782	81.358	

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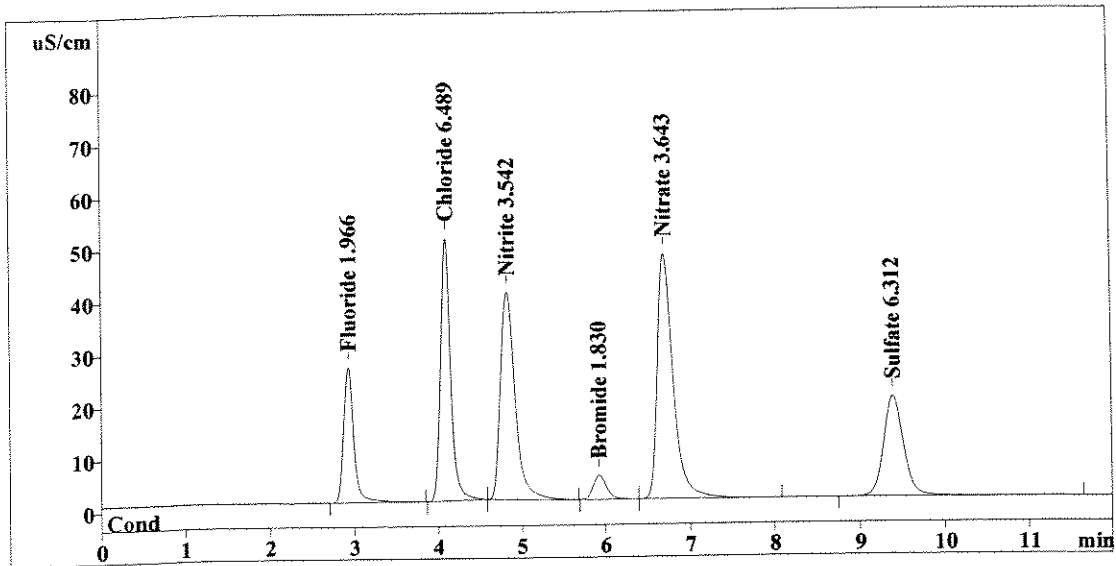
Method 300.0/9056

Report date: 7/7/2008 16:34:34
 Printed by: User
 Ident: CCV
 Analysis from: 7/3/2008 23:50:51
 File: s7032350.CHW

Last save: 7/7/2008 16:34:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37875
 SAMPLE:
 Vial number: 87
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	219.517	1.966	Fluoride
2	4.08	422.891	6.489	Chloride
3	4.81	482.009	3.542	Nitrite
4	5.92	51.066	1.830	Bromide
5	6.70	603.207	3.643	Nitrate
6	9.39	314.143	6.312	Sulfate
6		12.00	2092.833	23.782

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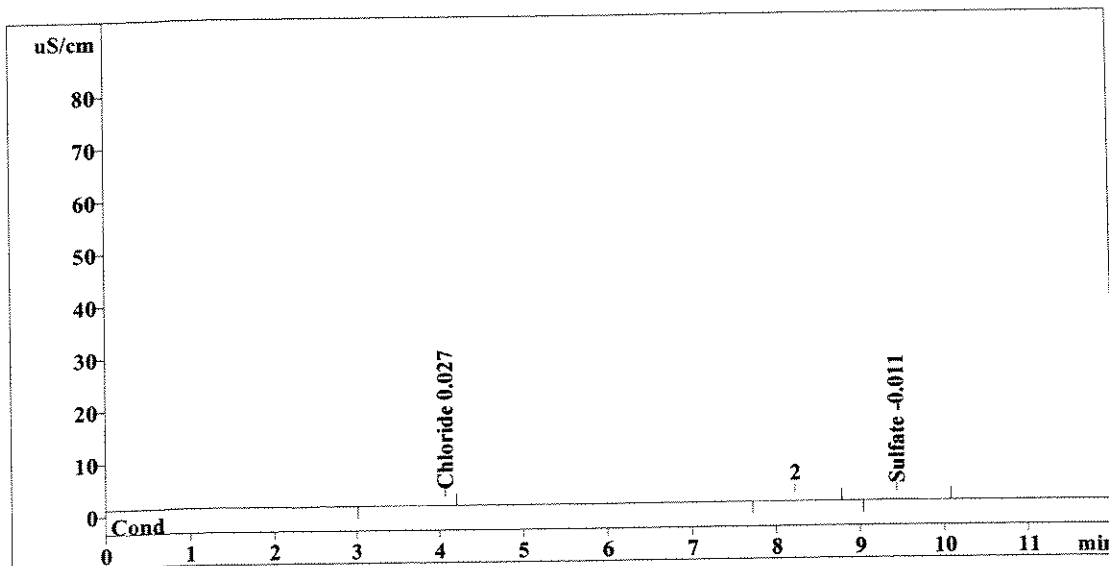
Method 300.0/9056

Report date: 7/7/2008 16:34:35
 Printed by: User
 Ident: CCB
 Analysis from: 7/4/2008 00:04:56
 File: s7040004.CHW

Last save: 7/7/2008 16:34:35

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37876
 SAMPLE:
 Vial number: 88
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.07	0.233	0.027	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.43	0.527	-0.011	Sulfate
<hr/>				
6	12.00	0.760	0.038	

Handwritten notes: An arrow points from the 'Chloride' row to the 'Sulfate' row. The number '6' is written next to the final row.

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Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861
 Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 06/10/2008 Loop size: 50 uL Loop

Analyst: C. Woods Analysis Date: 7-7-08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A	Working Calibration Stds	06/10/08	WC72050H
LCS / MS Intermediate	06/10/08	WC72050A	Working LCS/MS Standard	07/03/08	WC72093E
ICV Intermediate	05/05/08	WC72134B	Working ICV Standard	DAILY	WC72134H
CCV Intermediate	05/05/08	WC72134B	Working CCV Standard	DAILY	WC72134H

Comments:

CALIBRATION EXPIRES ON 12/10/2008

CHORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mL sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC720050A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC720093C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC720093D
NO3		50			1.0	OMW	7/3/08	E	7/10/08	WC720093E
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Run #: 163658
 Analyte: SULFATE 9056 SULFATE BY ION CHROMATOGRAPHY
 Printed: 07/09/08 22:04

44538 44621
 44650
 44797

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	✓ 1111266	WATER	2220	400.0	0.200			07/08/08	RUN	ASPB
CHKS		✓ 1116080	WATER	6.46	1.0	0.200	100.9		07/08/08		
BLK4		✓ 1116081	WATER	0.200	1.0	0.200			07/08/08		
SPKB		✓ 1116082	WATER	1.85	1.0	0.200	92.4		07/08/08		
ESMP	R2844538	✓ 1111763	WATER	2410	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844538	✓ 1111764	WATER	2360	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844538	✓ 1111765	WATER	1800	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112065	WATER	2330	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112066	WATER	2400	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112067	WATER	2.00	10.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112486	WATER	1540	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112487	WATER	1500	400.0	0.200			07/08/08	RUN	ASPB
LDUP		✓ 1116084	WATER	1550	400.0	0.200		3.49	07/08/08		
SPK1		✓ 1116085	WATER	2270	400.0	0.200	96.7		07/08/08		
ESMP	R2844650	✓ 1112488	WATER	1120	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112489	WATER	1550	400.0	0.200			07/09/08	RUN	ASPB
ESMP	R2844650	✓ 1112809	WATER	1600	400.0	0.200			07/09/08		ASPB
ESMP	R2844650	✓ 1113426	WATER	2110	400.0	0.200			07/09/08		ASPB
ESMP	R2844650	✓ 1113429	WATER	1030	400.0	0.200			07/09/08		ASPB
LDUP		✓ 1116086	WATER	1050	400.0	0.200		2.30	07/09/08		
SPK1		✓ 1116087	WATER	1790	400.0	0.200	94.7		07/09/08		
ESMP	R2844650	✓ 1113430	WATER	2340	400.0	0.200			07/09/08		ASPB
LDUP		✓ 1116088	WATER	2350	400.0	0.200		0.27	07/09/08		
SPK1		✓ 1116089	WATER	3070	400.0	0.200	91.5		07/09/08		
BLK5		✓ 1116083	SOIL/SEDIME	20.0	1.0	20.0			07/08/08		
ESMP	R2844797	✓ 1114376	SOIL/SEDIME	225 2150	100.0	20.0			07/08/08		ASPB
ESMP	R2844797	✓ 1114382	SOIL/SEDIME	252 252	10.0	20.0			07/08/08		ASPB

SD 7/10/08
 2150
 SD 7/10/08
 252

Records printed: 27

Reviewed & Approved
 By: Sdeto
 Date: 7/10/08

Run #: 163656

Analyte: CHLORIDE 9056

CHLORIDE BY ION CHROMATOGRAPHY

Printed: 07/09/08 22:08

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	- 1111266	WATER	2220	400.0	0.200			07/08/08	RUN	ASPB
CHK5		- 1116074	WATER	6.62	1.0	0.200	101.8		07/08/08		
BLK4		- 1116075	WATER	0.200	1.0	0.200			07/08/08		
SPKB		- 1116076	WATER	1.93	1.0	0.200	96.3		07/08/08		
ESMP	R2844538	- 1111763	WATER	1300	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844538	- 1111764	WATER	1620	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650.	- 1112065	WATER	1420	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650.	- 1112066	WATER	3150	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	- 1112067	WATER	2.00	10.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	- 1112488	WATER	845	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	- 1113426	WATER	903	400.0	0.200			07/09/08		ASPB
ESMP	R2844650	- 1113427	WATER	2660	400.0	0.200			07/09/08		ASPB
ESMP	R2844650.	- 1113429	WATER	603	400.0	0.200			07/09/08		ASPB
LDUP		- 1116077	WATER	616	400.0	0.200		2.09	07/09/08		
SPK1		- 1116078	WATER	1350	400.0	0.200	93.0		07/09/08		
BLK5		- 1116079	SOIL/SEDIME	20.0	1.0	20.0			07/08/08		ASPB
ESMP	R2844797	- 1114366	SOIL/SEDIME	24300	1000.0	20.0			07/08/08		ASPB
ESMP	R2844797	- 1114382	SOIL/SEDIME	95.1	10.0	20.0			07/08/08		ASPB

Records printed: 18

ANALYTE:G:\STARLIMS\ASBAR.RP1

Page 1

02379

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

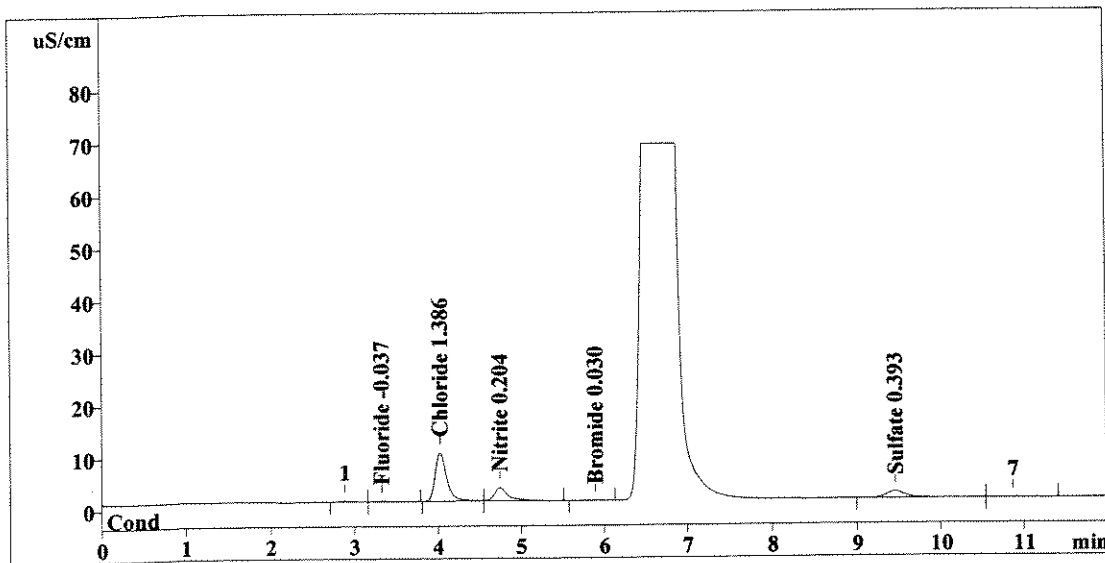
Method 300.0/9056

Report date: 7/8/2008 11:56:01
 Printed by: User
 Ident: LHAL0701
 Analysis from: 7/8/2008 11:44:03
 File: S7081144.CHW

Last save: 7/8/2008 11:56:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37881
 SAMPLE: TH:CL
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.32	1.423	-0.037	Fluoride
2	4.02	89.112	1.386	Chloride
3	4.74	28.416	0.204	Nitrite
4	5.89	0.158	0.030	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.46	20.583	0.393	Sulfate
6	12.00	139.692	2.050	

α
cut 7/9/08

$\times \frac{200}{1.00} = 277.2$

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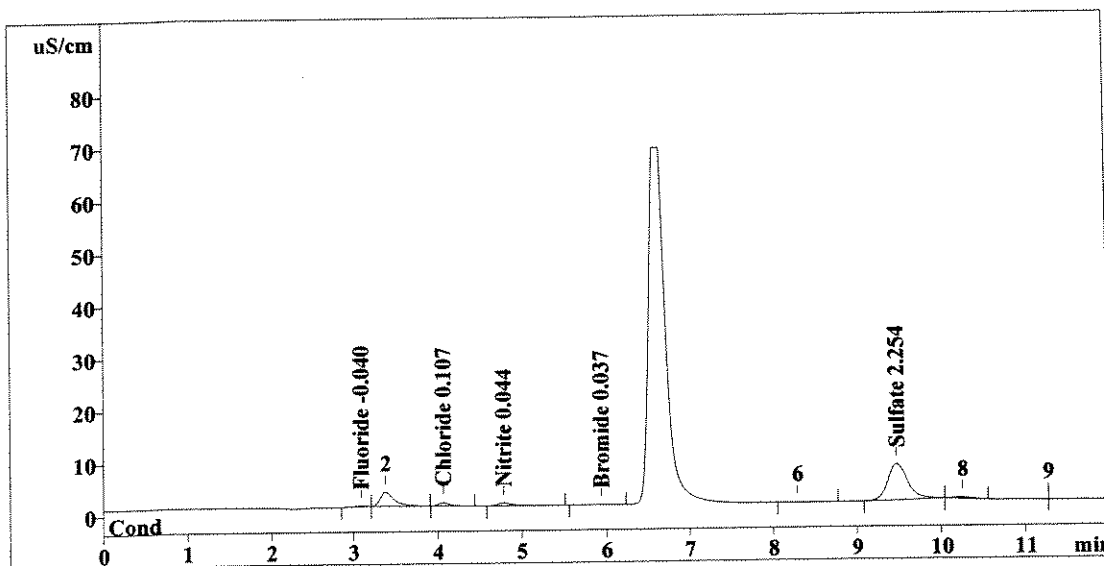
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 12:10:07
 Printed by: User
 Ident: 1111084A
 Analysis from: 7/8/2008 11:58:09
 File: S7081158.CHW

Method 300.0/9056

Last save: 7/8/2008 12:10:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37882
 SAMPLE: BTU, TH:CL
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.08	1.132	-0.040	Fluoride
2	4.06	5.461	0.107	Chloride
3	4.78	6.691	0.044	Nitrite
4	5.94	0.379	0.037	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	112.877	2.254	Sulfate
6	12.00	126.540	2.482	

OK
OK
cm
7/9/08

x 193
0.7430 = 27.794

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 Columbia Analytical Services
 Rochester, NY 14609

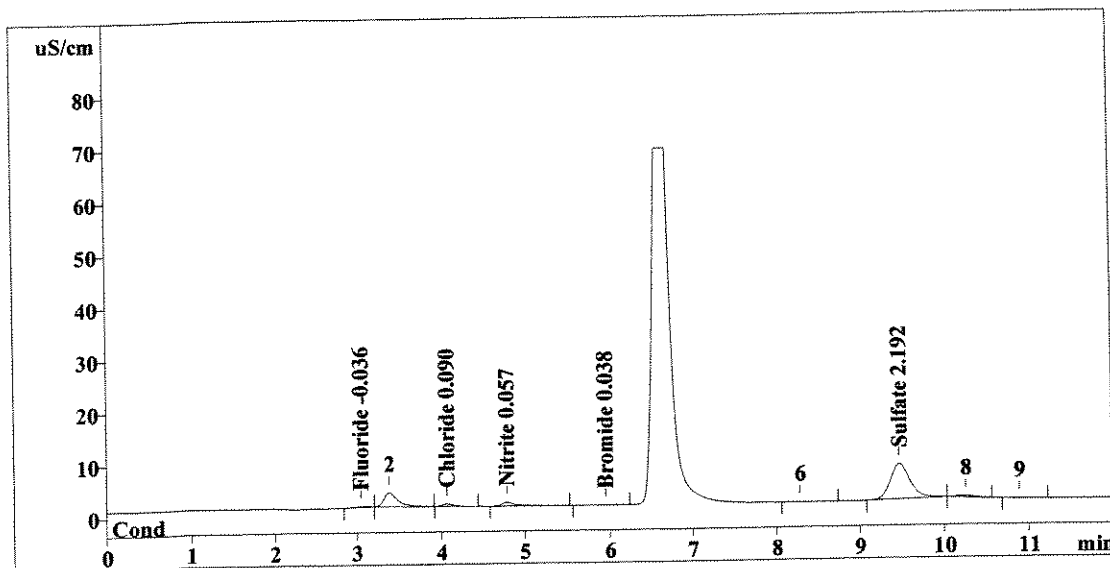
Method 300.0/9056

Report date: 7/8/2008 12:24:14
 Printed by: User
 Ident: 1111084B
 Analysis from: 7/8/2008 12:12:16
 File: S7081212.CHW

Last save: 7/8/2008 12:24:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37883
 SAMPLE: BTU, TH:CL
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.03	1.565	-0.036	Fluoride
2	4.06	4.353	0.090	Chloride
3	4.78	8.475	0.057	Nitrite
4	5.95	0.399	0.038	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	109.776	2.192	Sulfate
6	12.00	124.568	2.412	

OK
OK
cm 7/9/08

$2.192 \times \frac{190}{0.7922} = 21.585$

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 Rochester, NY 14609

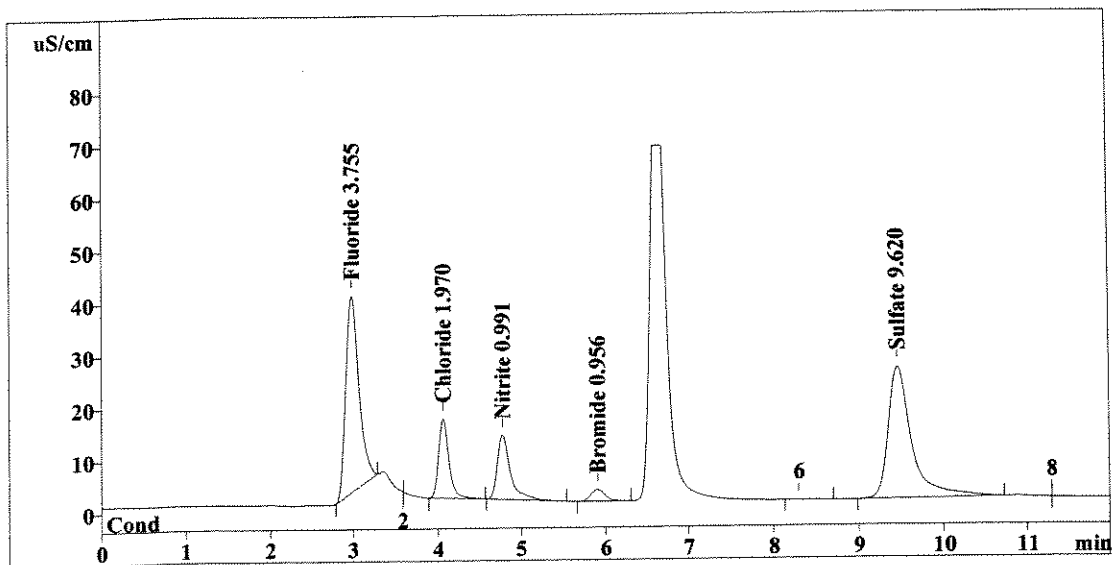
Method 300.0/9056

Report date: 7/8/2008 12:38:20
 Printed by: User
 Ident: 1111084A SPK
 Analysis from: 7/8/2008 12:26:22
 File: S7081226.CHW

Last save: 7/8/2008 12:38:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37884
 SAMPLE: BTU, TH:CL
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.97	414.289	3.755	Fluoride
2	4.06	127.328	1.970	Chloride
3	4.77	135.385	0.991	Nitrite
4	5.91	26.341	0.956	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.47	478.210	9.620	Sulfate
6	12.00	1181.552	17.291	

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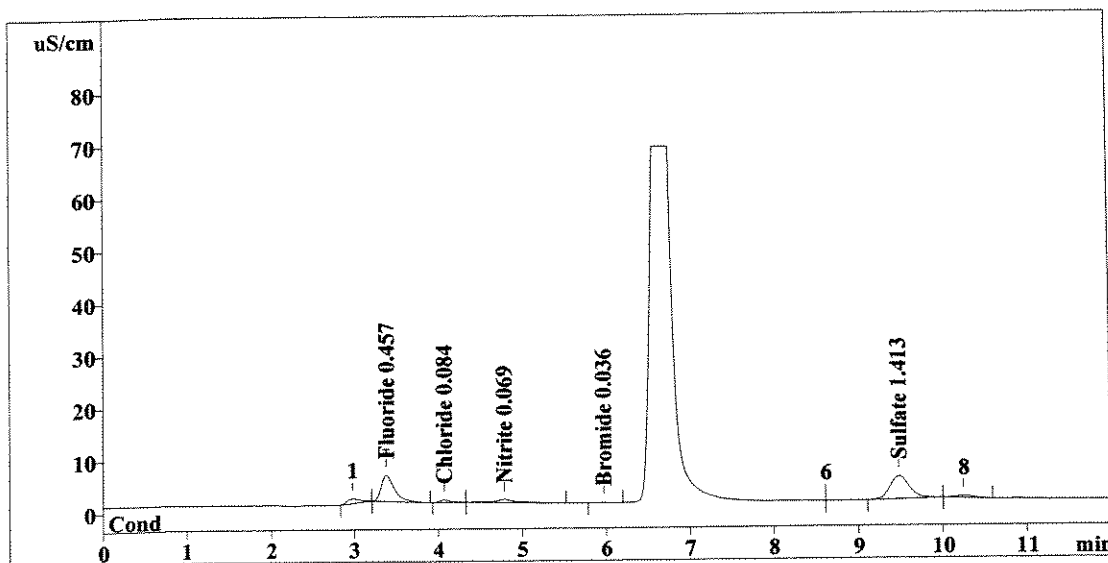
Method 300.0/9056

Report date: 7/8/2008 12:52:26
 Printed by: User
 Ident: 1111085A
 Analysis from: 7/8/2008 12:40:27
 File: S7081240.CHW

Last save: 7/8/2008 12:52:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37885
 SAMPLE: BTU, TH:CL
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	55.176	0.457	Fluoride
2	4.07	3.965	0.084	Chloride
3	4.78	10.075	0.069	Nitrite
4	5.97	0.325	0.036	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	71.133	1.413	Sulfate
6	12.00	140.675	2.057	

OK
OK
7/9/08

x 193
0.9018 = 17.977

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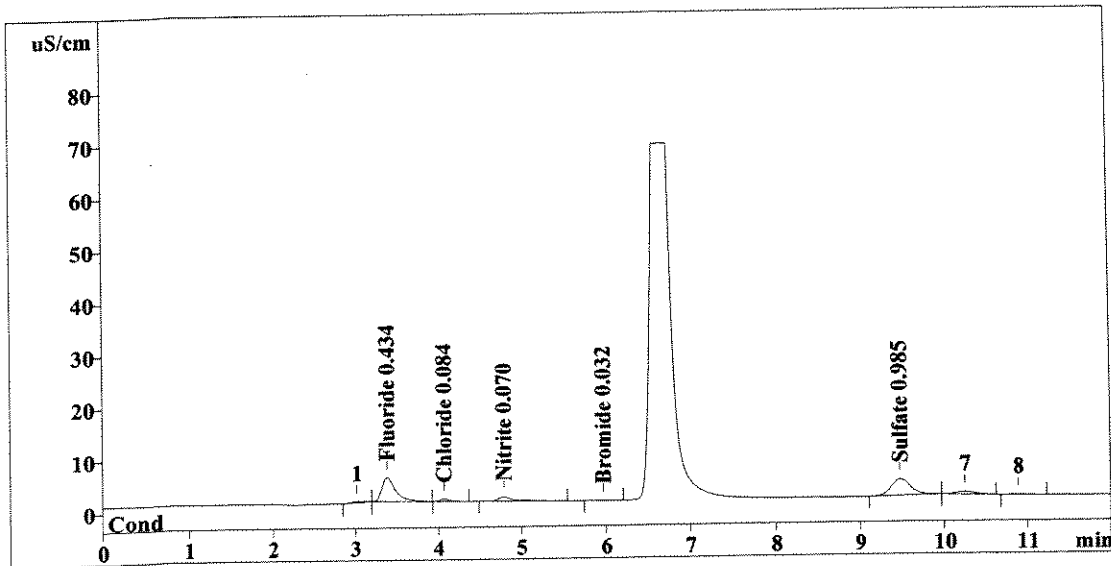
Method 300.0/9056

Report date: 7/8/2008 13:06:32
 Printed by: User
 Ident: 1111086A
 Analysis from: 7/8/2008 12:54:33
 File: S7081254.CHW

Last save: 7/8/2008 13:06:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37886
 SAMPLE: BTU, TH:CL
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	52.755	0.434	Fluoride
2	4.07	3.979	0.084	Chloride
3	4.79	10.251	0.070	Nitrite
4	5.97	0.214	0.032	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	49.907	0.985	Sulfate
6	12.00	117.106	1.605	

OK
 OK
 cm
 7/9/08

$\times \frac{190}{0.9557} = 16.700$

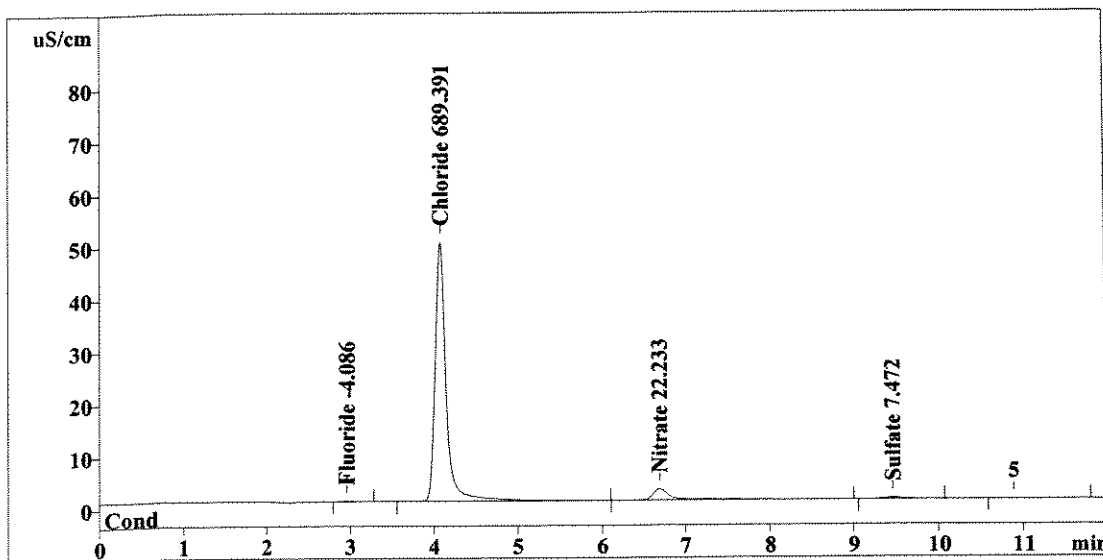
This report has been created by IC Net
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Report date: 7/8/2008 13:20:37
 Printed by: User
 Ident: LCL0701
 Analysis from: 7/8/2008 13:08:39
 File: S7081308.CHW

Last save: 7/8/2008 13:20:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37887
 SAMPLE: %CL
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	1.017	-4.086	Fluoride
2	4.06	449.406	689.391	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.69	34.250	22.233	Nitrate
6	9.46	4.776	7.472	Sulfate
6	12.00	489.449	723.182	

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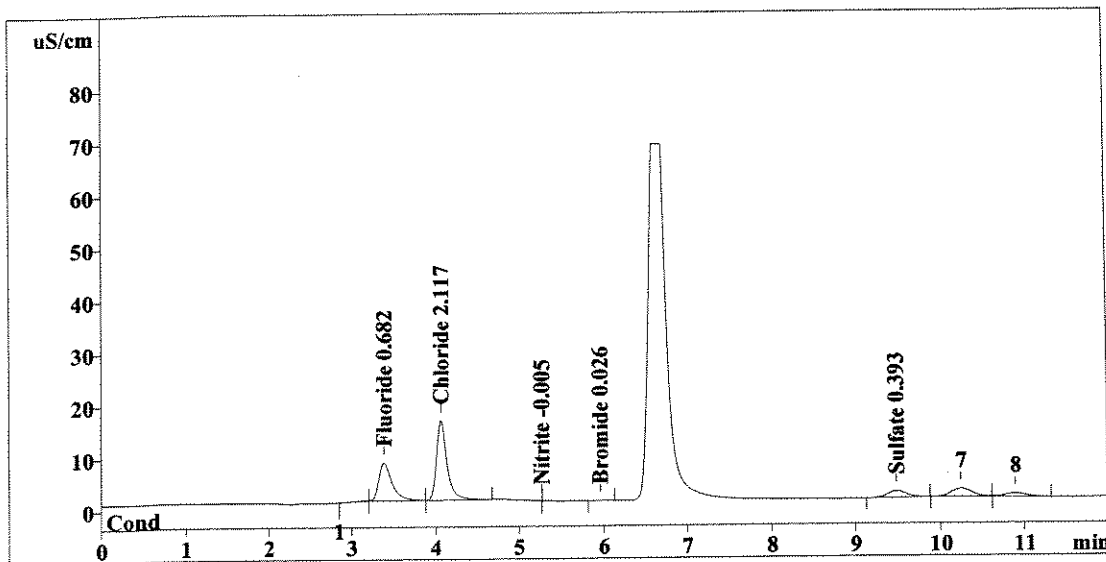
Method 300.0/9056

Report date: 7/8/2008 13:34:43
 Printed by: User
 Ident: 1102750A
 Analysis from: 7/8/2008 13:22:45
 File: S7081322.CHW

Last save: 7/8/2008 13:34:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37888
 SAMPLE: %CL, BTU
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	79.680	0.682	Fluoride
2	4.06	136.937	2.117	Chloride
3	5.27	-0.000	-0.005	Nitrite
4	5.96	0.070	0.026	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.49	20.557	0.393	Sulfate
<hr/>				
6	12.00	237.244	3.223	

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Handwritten notes:
 OK
 OK
 Do not report % Cl.
 CUY 7/9/08

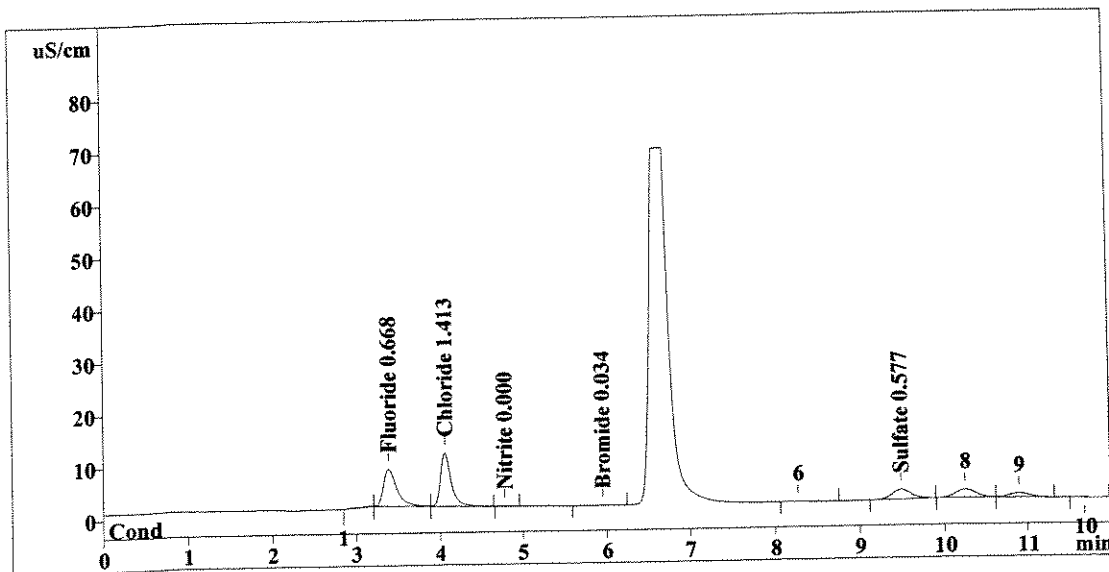
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 13:48:49
 Printed by: User
 Ident: 1102750B
 Analysis from: 7/8/2008 13:36:51
 File: S7081336.CHW

Method 300.0/9056

Last save: 7/8/2008 13:48:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37889
 SAMPLE: %CL, BTU
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	78.219	0.668	Fluoride
2	4.06	90.876	1.413	Chloride
3	4.78	0.777	0.000	Nitrite
4	5.95	0.284	0.034	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.49	29.688	0.577	Sulfate
6	12.00	199.844	2.692	

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Do not report % Cl.
CM 7/9/08

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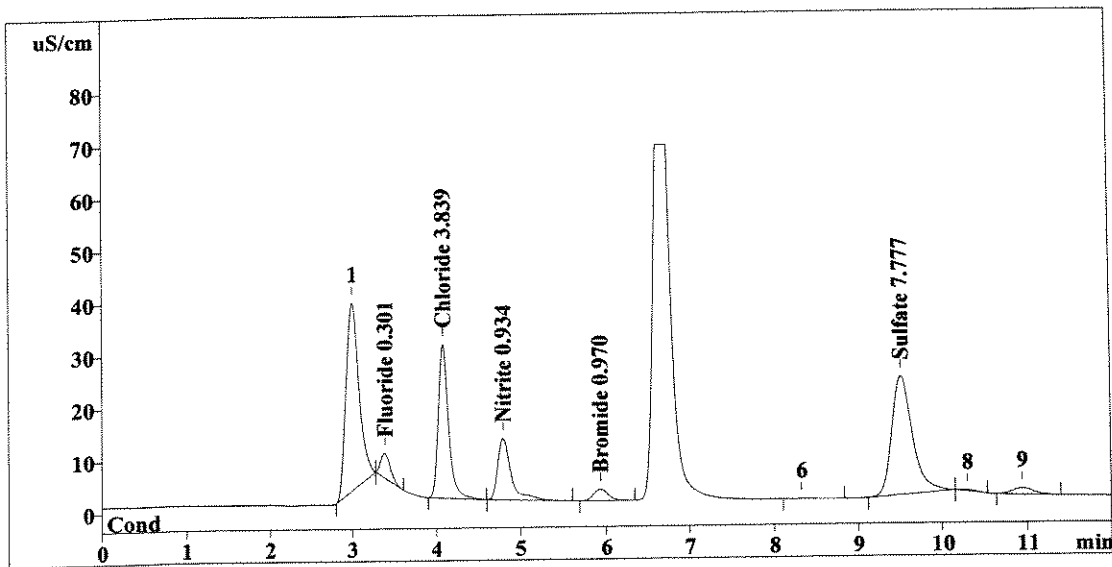
Method 300.0/9056

Report date: 7/8/2008 14:03:00
 Printed by: User
 Ident: 1102750A SPK
 Analysis from: 7/8/2008 13:50:57
 File: S7081350.CHW

Last save: 7/8/2008 14:03:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37890
 SAMPLE: %CL, BTU
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	38.221	0.301	Fluoride
2	4.08	249.583	3.839	Chloride
3	4.79	127.681	0.934	Nitrite
4	5.94	26.735	0.970	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.52	386.789	7.777	Sulfate
<hr/>				
6	12.00	829.009	13.821	

Handwritten signature and date: 7/9/08

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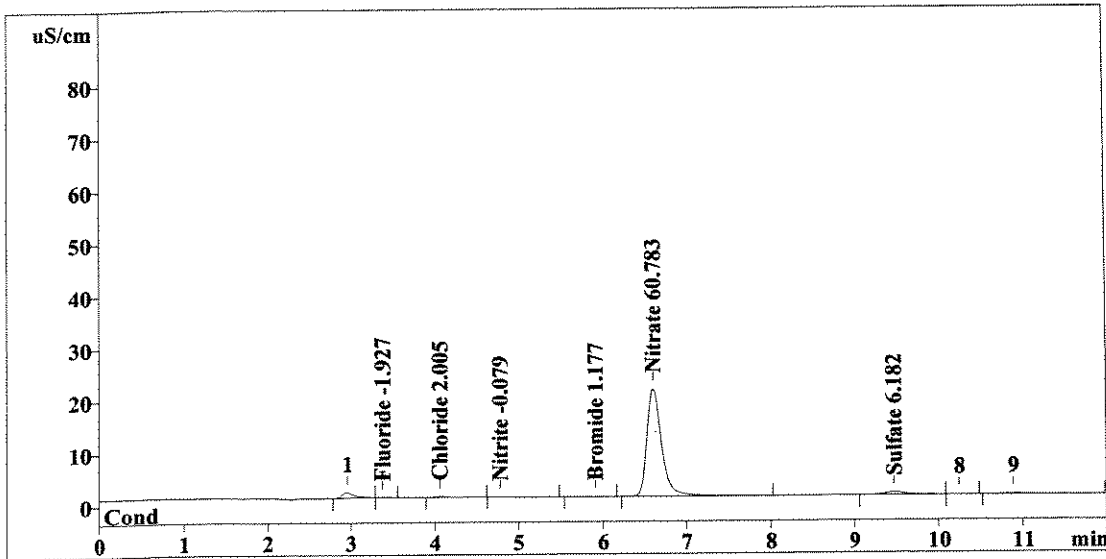
Method 300.0/9056

Report date: 7/8/2008 14:17:15
 Printed by: User
 Ident: 1111733A
 Analysis from: 7/8/2008 14:05:17
 File: S7081405.CHW

Last save: 7/8/2008 14:17:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37891
 SAMPLE: BTU
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.220	-1.927	Fluoride
2	4.06	1.757	2.005	Chloride
3	4.77	0.457	-0.079	Nitrite
4	5.90	0.154	1.177	Bromide
5	6.60	250.012	60.783	Nitrate
6	9.47	8.736	6.182	Sulfate
6	12.00	261.337	72.153	

OK
cm
7/9/08

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 Columbia Analytical Services
 Rochester, NY 14609

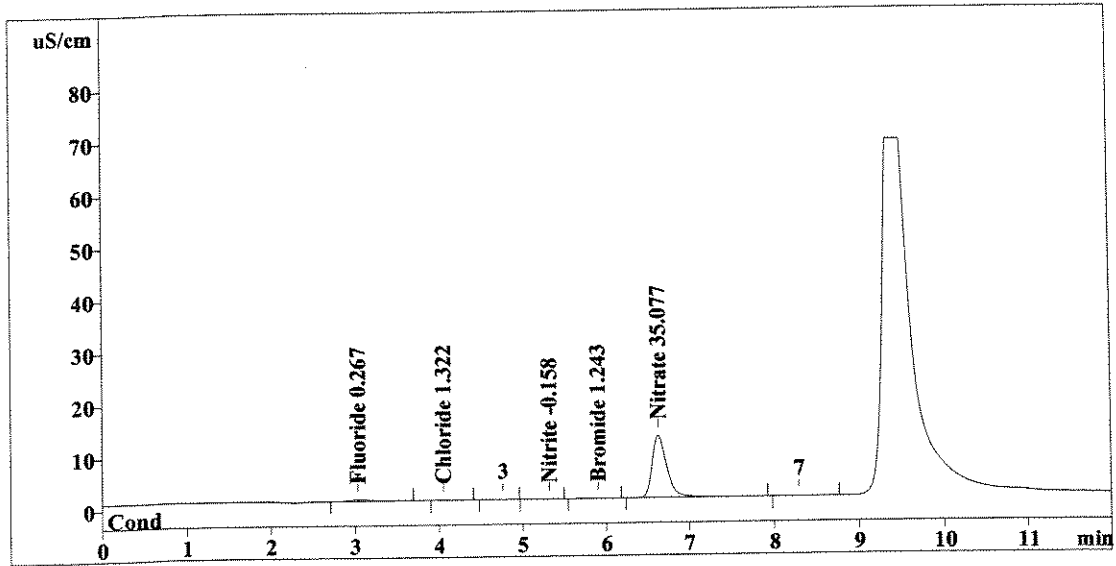
Method 300.0/9056

Report date: 7/8/2008 14:31:21
 Printed by: User
 Ident: 1113050A
 Analysis from: 7/8/2008 14:19:23
 File: S7081419.CHW

Last save: 7/8/2008 14:31:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37892
 SAMPLE: BTU
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.03	6.192	0.267	Fluoride
2	4.05	0.640	1.322	Chloride
3	5.30	0.190	-0.158	Nitrite
4	5.90	0.200	1.243	Bromide
5	6.63	143.126	35.077	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	150.348	38.066	

Handwritten notes: rpt 7/200, CW 7/9/08

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 Columbia Analytical Services
 Rochester, NY 14609

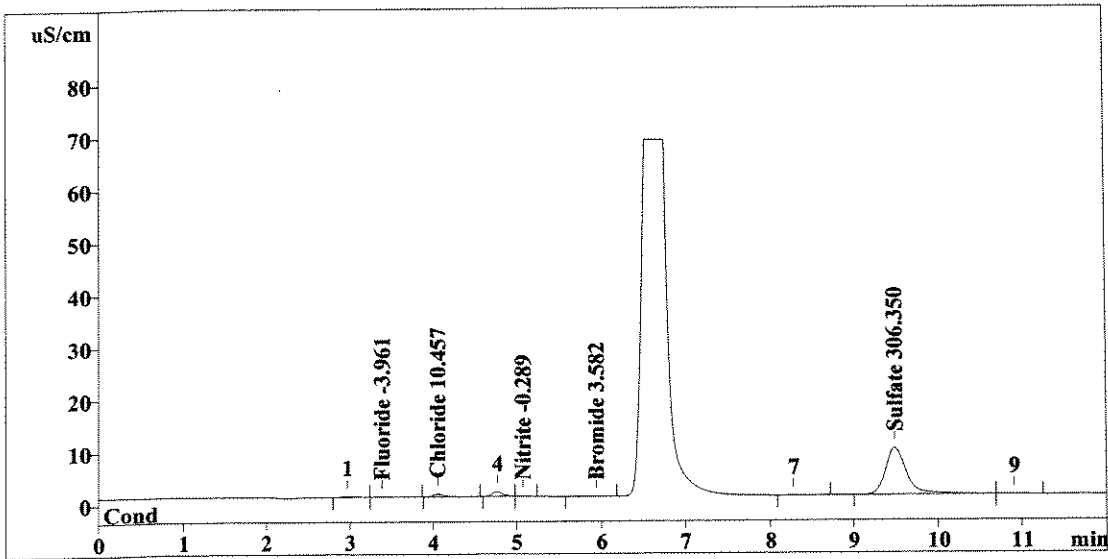
Method 300.0/9056

Report date: 7/8/2008 14:45:27
 Printed by: User
 Ident: BLK0702
 Analysis from: 7/8/2008 14:33:29
 File: S7081433.CHW

Last save: 7/8/2008 14:45:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37893
 SAMPLE: %CL
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	1.153	-3.961	Fluoride
2	4.05	5.319	10.457	Chloride
3	5.08	0.333	-0.289	Nitrite
4	5.94	0.334	3.582	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.49	153.017	306.350	Sulfate
6	12.00	160.156	324.638	

This report has been created by IC Net
 METROHM LTD

*Reprocess
 Dilution.
 7/9/08*

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 Columbia Analytical Services
 Rochester, NY 14609

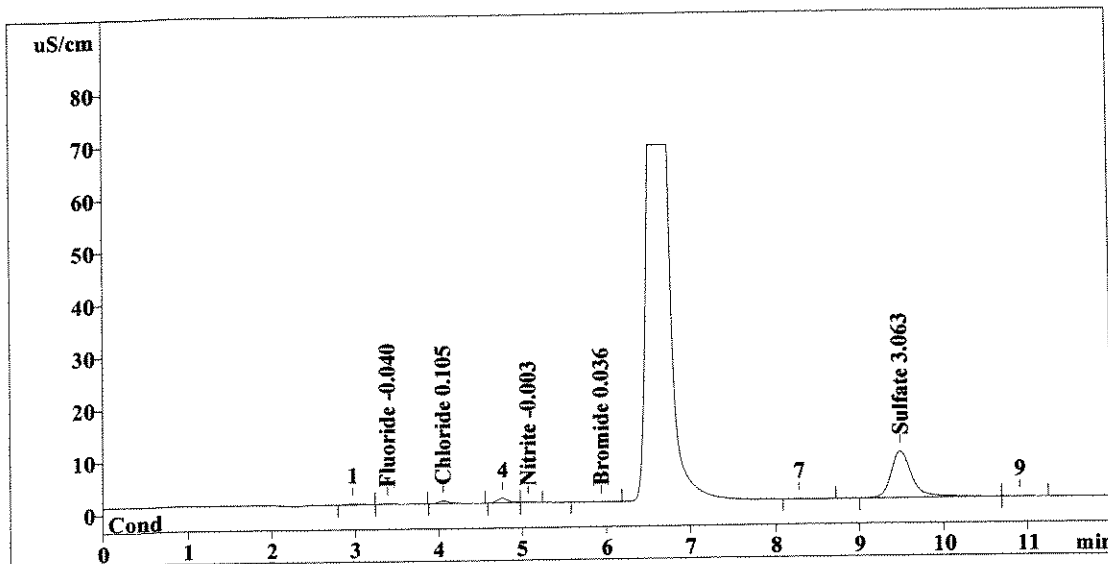
Method 300.0/9056

Report date: 7/9/2008 09:38:03
 Printed by: User
 Ident: BLK0702
 Analysis from: 7/8/2008 14:33:29
 File: s7081433.chw

Last save: 7/9/2008 09:37:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37893
 SAMPLE: %CL
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	1.153	-0.040	Fluoride
2	4.05	5.319	0.105	Chloride
3	5.08	0.333	-0.003	Nitrite
4	5.94	0.334	0.036	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.49	153.017	3.063	Sulfate
<hr/>				
6	12.00	160.156	3.246	

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Handwritten notes:
 Dilution Reprocessed. 7/9/08
 7/10/08

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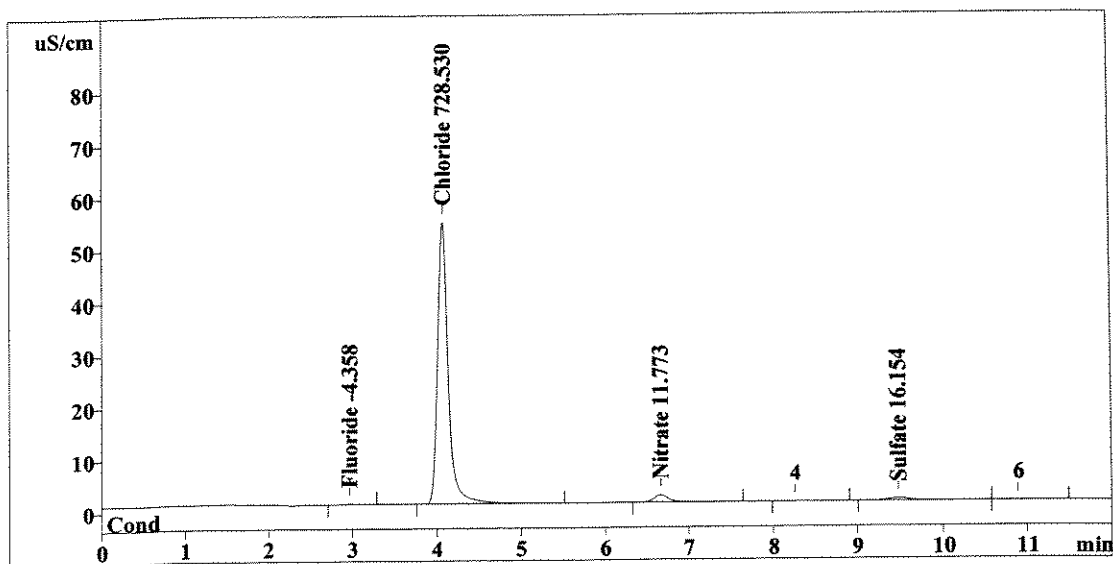
Method 300.0/9056

Report date: 7/8/2008 14:59:33
 Printed by: User
 Ident: LCL0702
 Analysis from: 7/8/2008 14:47:35
 File: S7081447.CHW

Last save: 7/8/2008 14:59:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37894
 SAMPLE: %CL
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	0.721	-4.358	Fluoride
2	4.06	475.007	728.530	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.66	16.853	11.773	Nitrate
6	9.48	9.082	16.154	Sulfate
<hr/>				
6	12.00	501.662	760.815	

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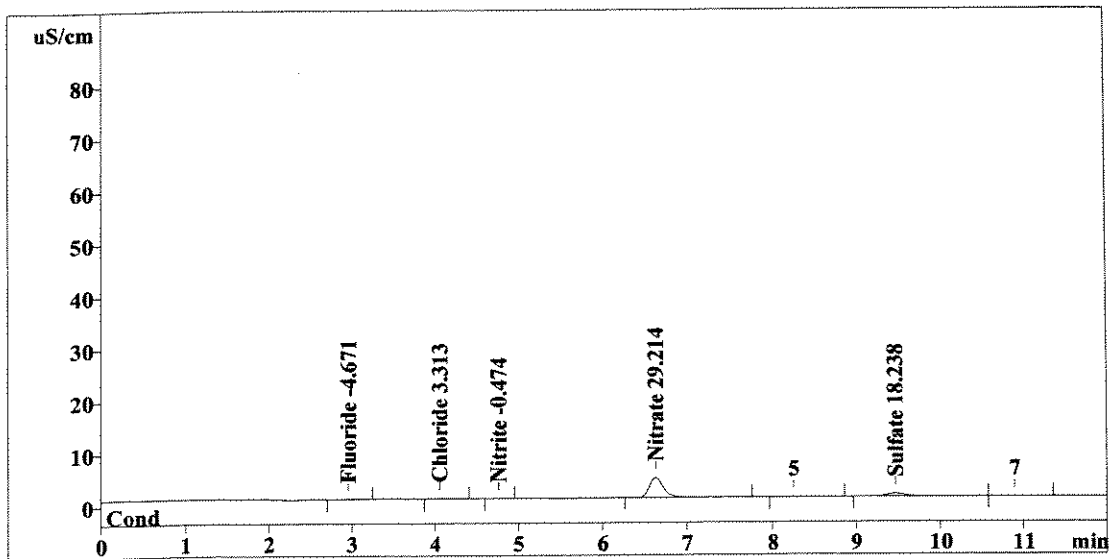
Handwritten notes:
 7/9/08
 Reprocess
 Dilution
 7/9/08

Report date: 7/8/2008 15:13:39
 Printed by: User
 Ident: 1110606A
 Analysis from: 7/8/2008 15:01:41
 File: S7081501.CHW

Last save: 7/8/2008 15:13:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37895
 SAMPLE: %CL
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	0.379	-4.671	Fluoride
2	4.05	0.645	3.313	Chloride
3	4.76	0.081	-0.474	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.63	45.860	29.214	Nitrate
6	9.47	10.116	18.238	Sulfate
6	12.00	57.081	55.910	

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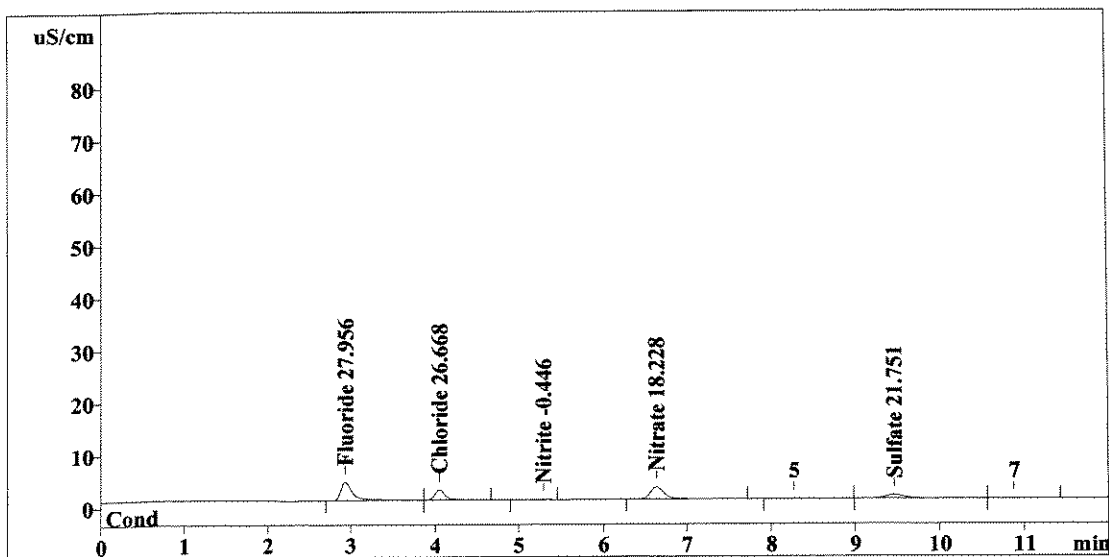
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 15:27:45
 Printed by: User
 Ident: 1110610A
 Analysis from: 7/8/2008 15:15:47
 File: S7081515.CHW

Method 300.0/9056

Last save: 7/8/2008 15:27:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37896
 SAMPLE: %CL
 Vial number: 20
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	35.906	27.956	Fluoride
2	4.05	15.922	26.668	Chloride
3	5.29	0.119	-0.446	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.64	27.588	18.228	Nitrate
6	9.47	11.858	21.751	Sulfate
6	12.00	91.394	95.049	

not 1/10
7/9/08

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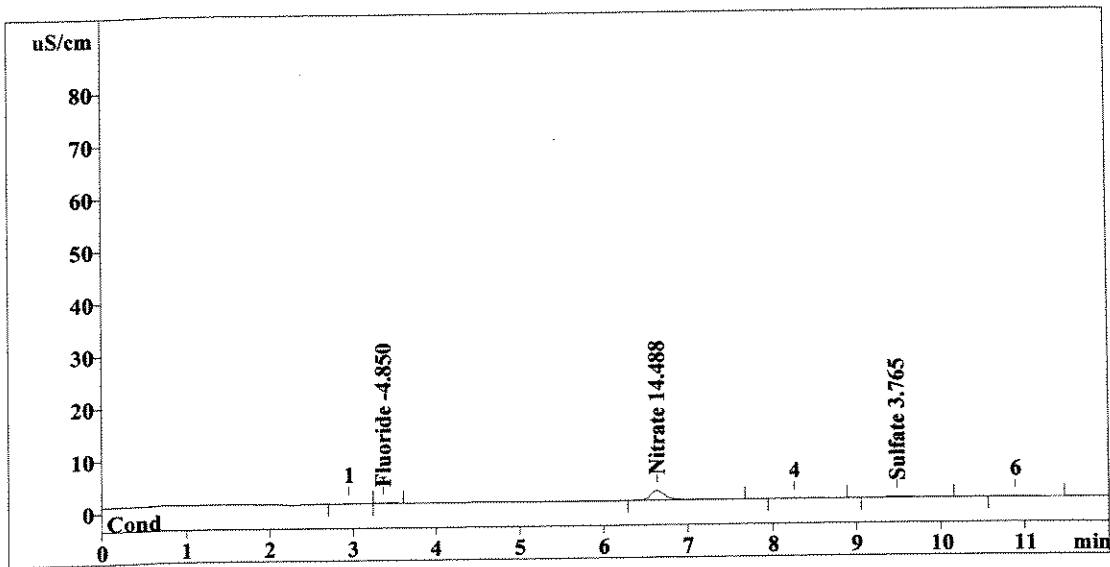
Method 300.0/9056

Report date: 7/8/2008 15:41:51
 Printed by: User
 Ident: 1110614A
 Analysis from: 7/8/2008 15:29:53
 File: S7081529.CHW

Last save: 7/8/2008 15:41:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37897
 SAMPLE: %CL
 Vial number: 21
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.185	-4.850	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.64	21.369	14.488	Nitrate
6	9.48	2.937	3.765	Sulfate
<hr/>				
6	12.00	24.491	23.103	

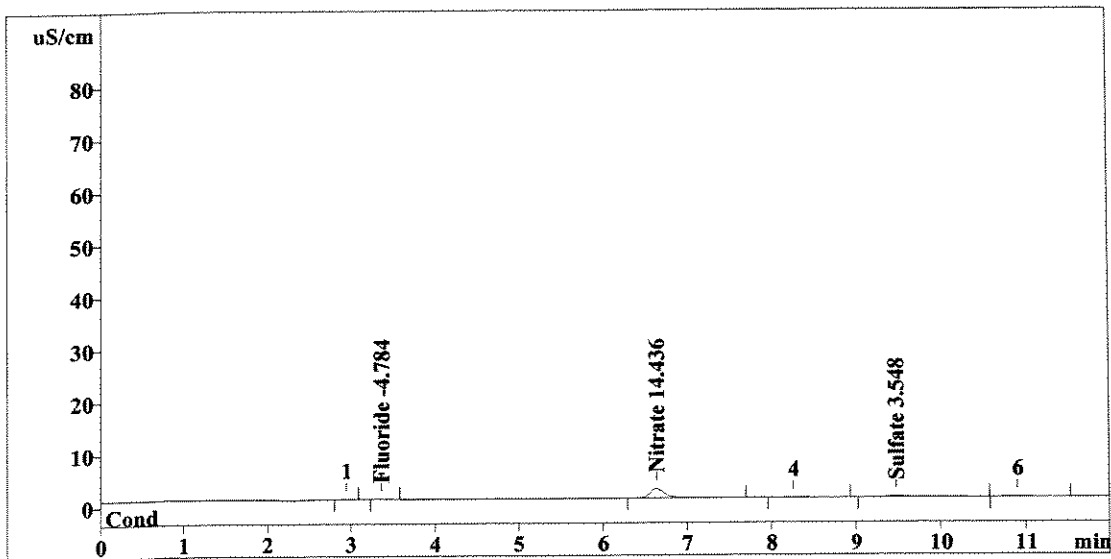
This report has been created by IC Net
 METROHM LTD

Report date: 7/8/2008 15:55:57
 Printed by: User
 Ident: 1110614B
 Analysis from: 7/8/2008 15:43:59
 File: S7081543.CHW

Last save: 7/8/2008 15:55:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37898
 SAMPLE: %CL
 Vial number: 22
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.256	-4.784	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.63	21.281	14.436	Nitrate
6	9.48	2.829	3.548	Sulfate
<hr/>				
6	12.00	24.366	22.768	

mpt str.

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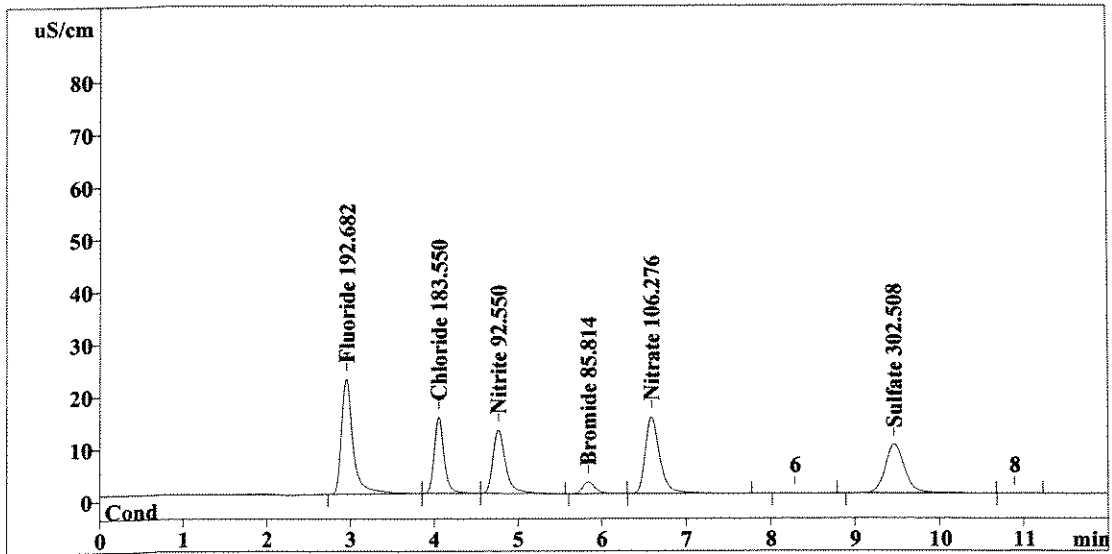
Method 300.0/9056

Report date: 7/8/2008 16:10:03
 Printed by: User
 Ident: 1110614A SPK
 Analysis from: 7/8/2008 15:58:05
 File: S7081558.CHW

Last save: 7/8/2008 16:10:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37899
 SAMPLE: %CL
 Vial number: 23
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	215.267	192.682	Fluoride
2	4.05	118.538	183.550	Chloride
3	4.76	126.473	92.550	Nitrite
4	5.84	23.583	85.814	Bromide
5	6.59	174.033	106.276	Nitrate
6	9.46	151.112	302.508	Sulfate
<hr/>				
6	12.00	809.006	963.380	

Handwritten signature and date: 7/9/08

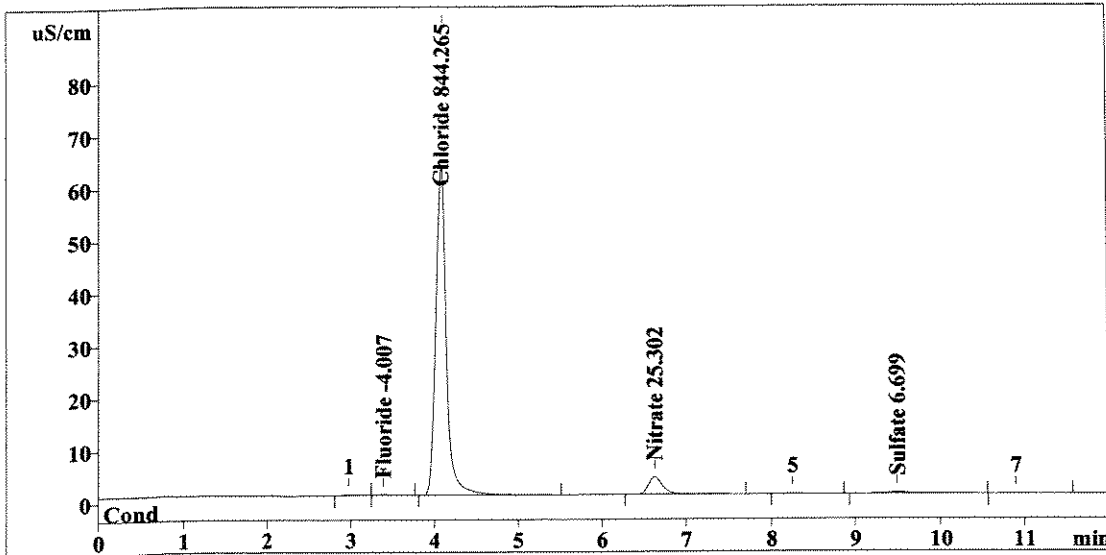
This report has been created by IC Net
 METROHM LTD

Report date: 7/8/2008 16:24:09
 Printed by: User
 Ident: 1110602A
 Analysis from: 7/8/2008 16:12:11
 File: S7081612.CHW

Last save: 7/8/2008 16:24:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37900
 SAMPLE: %CL
 Vial number: 24
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	1.102	-4.007	Fluoride
2	4.06	550.709	844.265	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.63	39.355	25.302	Nitrate
6	9.50	4.392	6.699	Sulfate
6	12.00	595.558	880.274	

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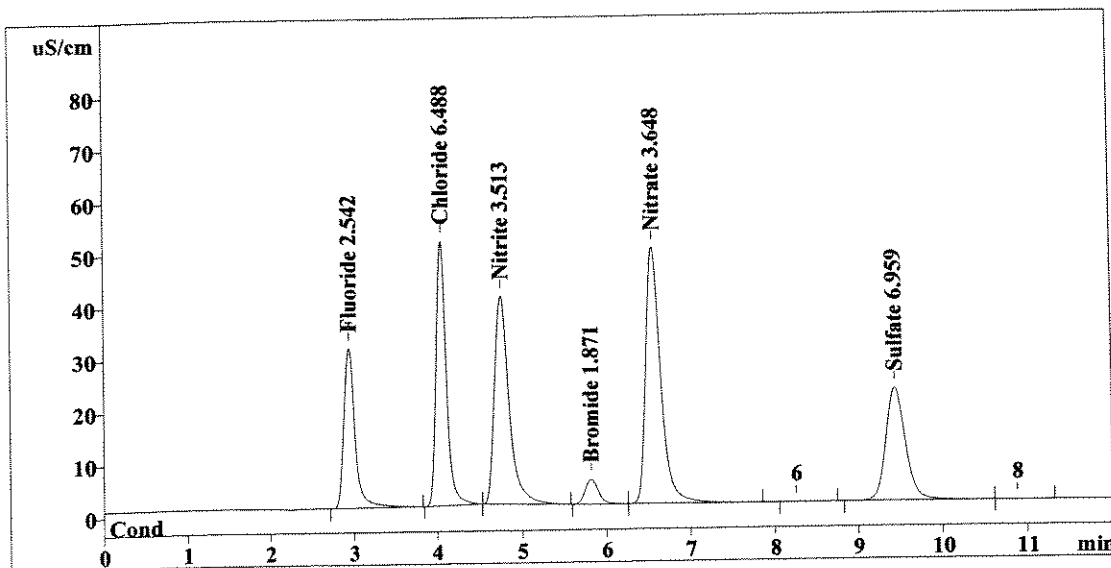
Method 300.0/9056

Report date: 7/8/2008 16:38:14
 Printed by: User
 Ident: CCV
 Analysis from: 7/8/2008 16:26:16
 File: S7081626.CHW

Last save: 7/8/2008 16:38:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37901
 SAMPLE:
 Vial number: 25
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	282.242	2.542	Fluoride
2	4.05	422.875	6.488	Chloride
3	4.75	478.004	3.513	Nitrite
4	5.81	52.210	1.871	Bromide
5	6.55	604.028	3.648	Nitrate
6	9.45	346.240	6.959	Sulfate
<hr/>				
6	12.00	2185.598	25.021	

OUT HIGH
OK
↓
7/9/08

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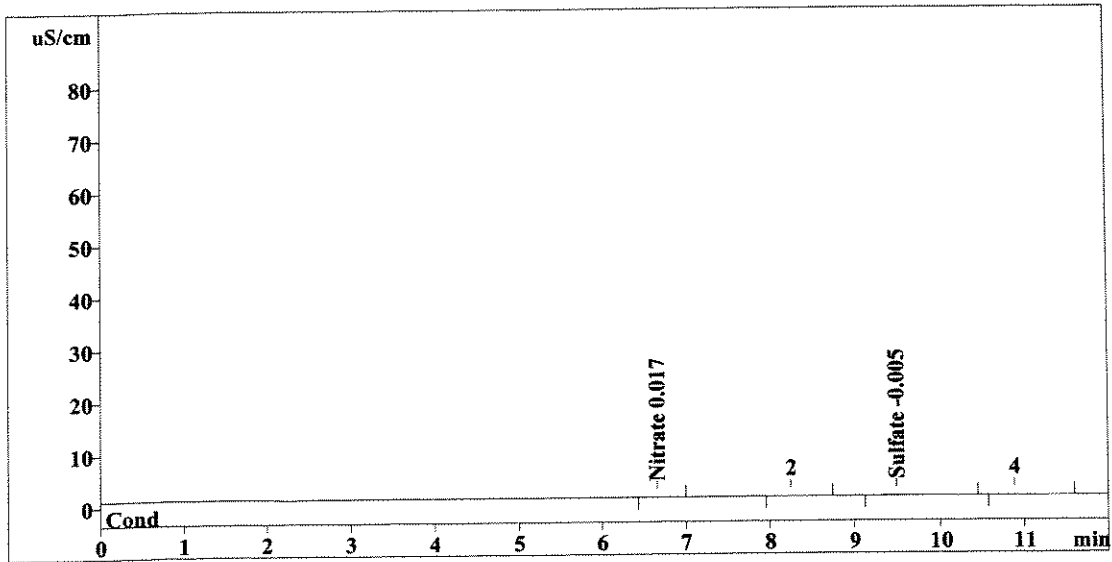
Method 300.0/9056

Report date: 7/8/2008 16:52:20
 Printed by: User
 Ident: CCB
 Analysis from: 7/8/2008 16:40:22
 File: S7081640.CHW

Last save: 7/8/2008 16:52:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37902
 SAMPLE:
 Vial number: 26
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.66	0.082	0.017	Nitrate
6	9.49	0.804	-0.005	Sulfate
<hr/>				
6	12.00	0.886	0.022	

Handwritten notes: 'OK' with a downward arrow pointing to the Nitrate row, and 'CMB 7/9/08' written below the table.

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 Rochester, NY 14609

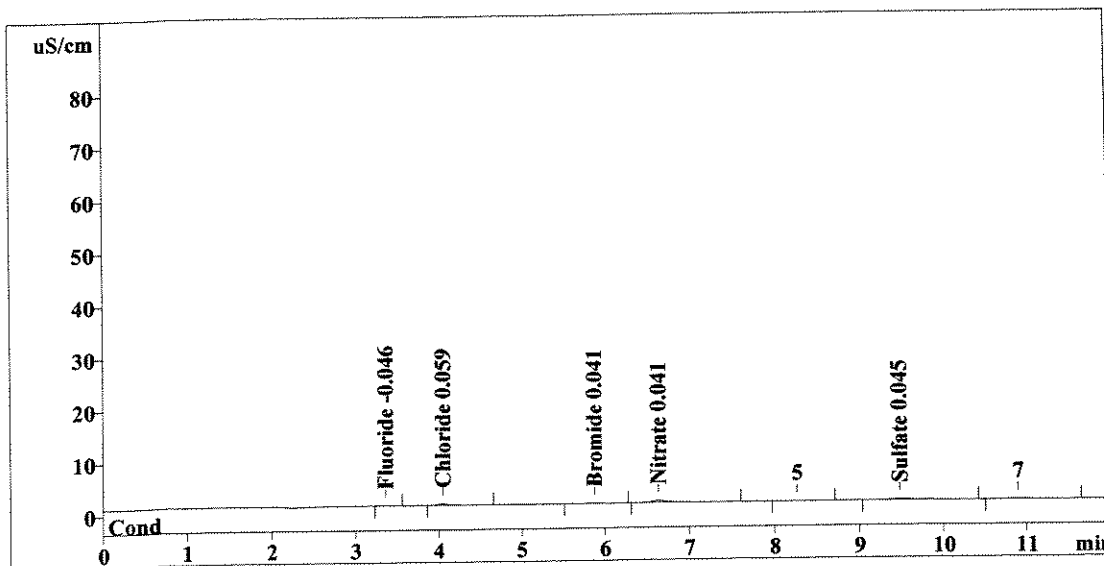
Method 300.0/9056

Report date: 7/8/2008 17:06:26
 Printed by: User
 Ident: METHOD BLANK 7/2
 Analysis from: 7/8/2008 16:54:28
 File: S7081654.CHW

Last save: 7/8/2008 17:06:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37903
 SAMPLE: CNNS
 Vial number: 27
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.453	-0.046	Fluoride
2	4.05	2.332	0.059	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	0.469	0.041	Bromide
5	6.64	4.063	0.041	Nitrate
6	9.48	3.303	0.045	Sulfate
6	12.00	10.620	0.231	

25g → 250ml

7/9/08

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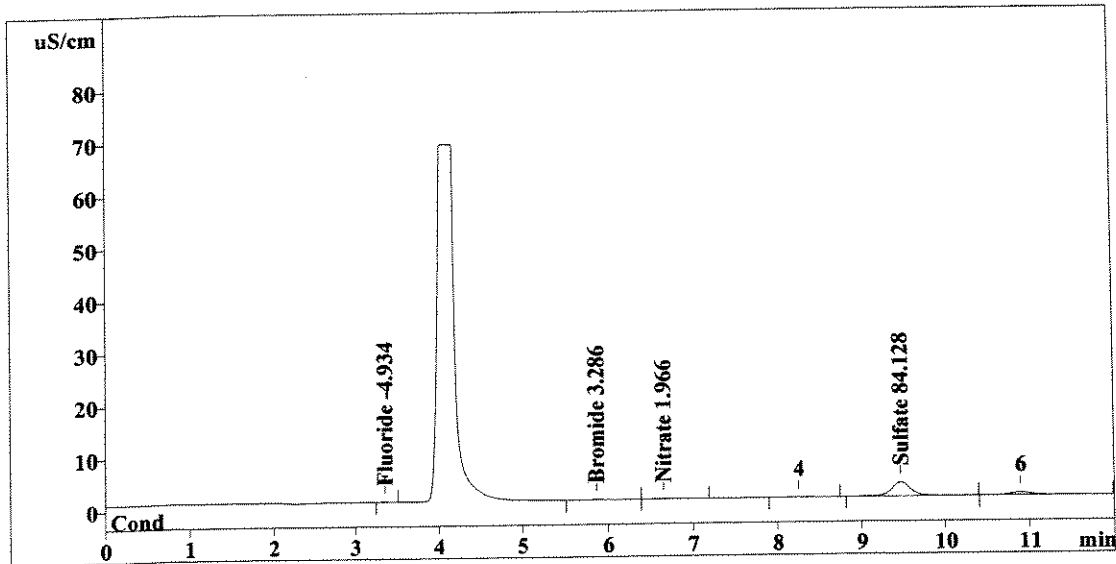
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 17:20:33
 Printed by: User
 Ident: 1114366
 Analysis from: 7/8/2008 17:08:35
 File: S7081708.CHW

Method 300.0/9056

Last save: 7/8/2008 17:20:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37904
 SAMPLE: NO2
 Vial number: 28
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.093	-4.934	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	0.251	3.286	Bromide
5	6.65	0.541	1.966	Nitrate
6	9.47	42.796	84.128	Sulfate
6	12.00	43.681	94.314	

25g → 250ml

7/9/08

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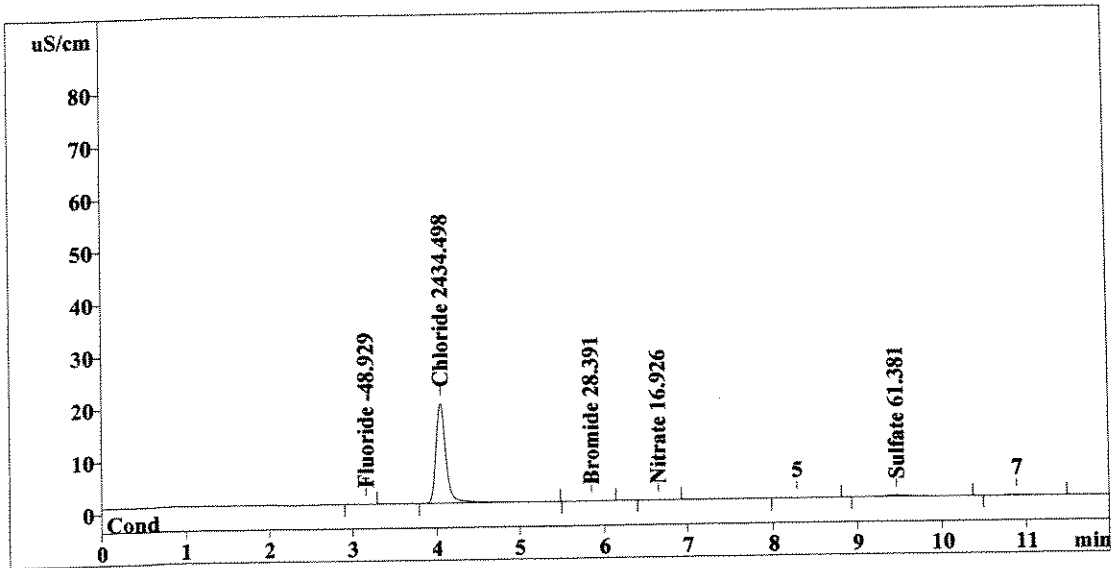
Method 300.0/9056

Report date: 7/8/2008 17:34:39
 Printed by: User
 Ident: 1114366
 Analysis from: 7/8/2008 17:22:41
 File: S7081722.CHW

Last save: 7/8/2008 17:34:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37905
 SAMPLE: S
 Vial number: 29
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.16	0.138	-48.929	Fluoride
2	4.04	157.718	2434.498	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.82	0.124	28.391	Bromide
5	6.65	0.086	16.926	Nitrate
6	9.47	4.114	61.381	Sulfate
6	12.00	162.181	2590.125	

25g → 250ml

OK

apt 1/20

cr 7/9/08

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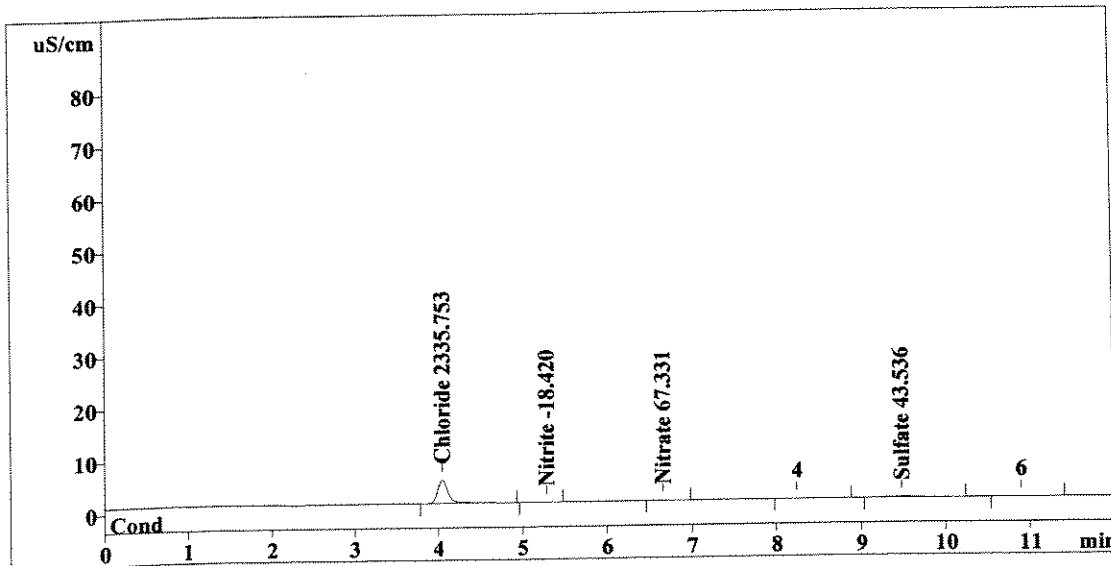
Method 300.0/9056

Report date: 7/8/2008 17:48:45
 Printed by: User
 Ident: 1114366
 Analysis from: 7/8/2008 17:36:47
 File: S7081736.CHW

Last save: 7/8/2008 17:48:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37906
 SAMPLE: C
 Vial number: 30
 Volume: 1.0 µL
 Dilution: 4000.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.04	36.674	2335.753	Chloride
3	5.28	0.099	-18.420	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.66	0.071	67.331	Nitrate
6	9.48	1.610	43.536	Sulfate
6	12.00	38.453	2465.039	

Handwritten notes:
 25g → 250µl
 report 1/1000
 report 1/1000
 7/9/08

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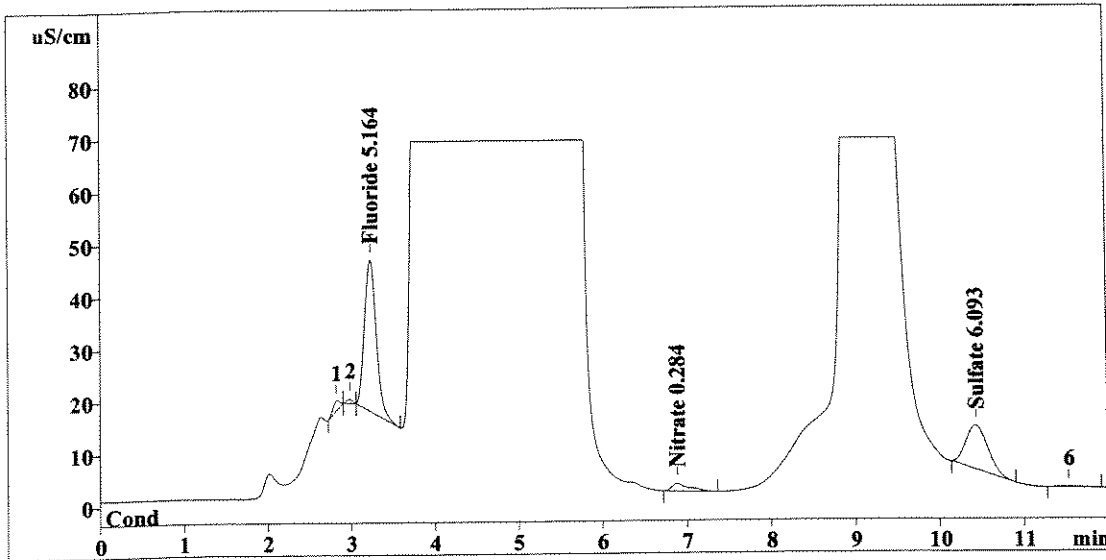
Method 300.0/9056

Report date: 7/8/2008 18:02:51
 Printed by: User
 Ident: 1114376
 Analysis from: 7/8/2008 17:50:53
 File: S7081750.CHW

Last save: 7/8/2008 18:02:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37907
 SAMPLE: NO3
 Vial number: 31
 Volume: 1.0 µL
 Dilution: 2.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.21	286.624	5.164	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.88	20.921	0.284	Nitrate
6	10.44	152.183	6.093	Sulfate
6	12.00	459.728	11.542	

25g ⇒ 250mg

*apt @ 1/20
 7/9/08*

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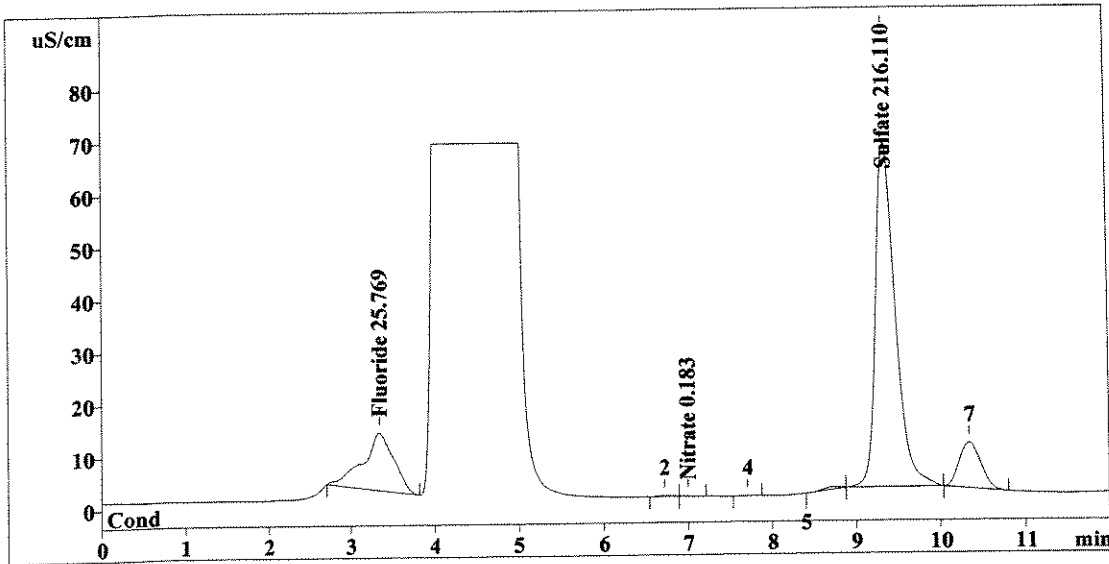
Method 300.0/9056

Report date: 7/8/2008 18:16:57
 Printed by: User
 Ident: 1114376
 Analysis from: 7/8/2008 18:04:59
 File: S7081804.CHW

Last save: 7/8/2008 18:16:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37908
 SAMPLE: S
 Vial number: 32
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	286.046	25.769	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.00	0.321	0.183	Nitrate
6	9.36	1072.962	216.110	Sulfate
6	12.00	1359.329	242.062	

25g → 250ml

mp 1/100 - 7/9/08

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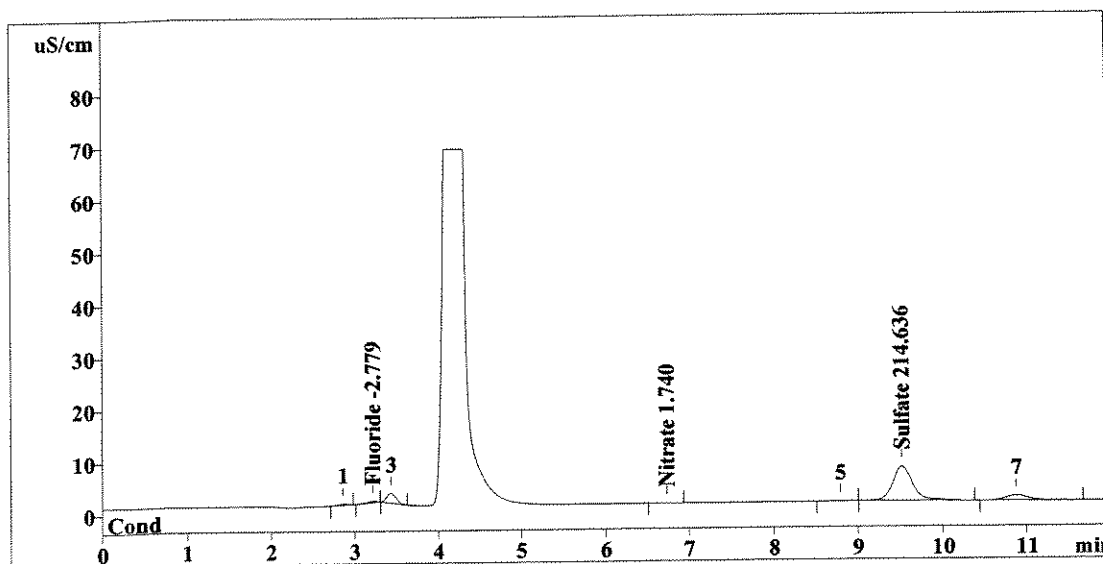
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 18:31:03
 Printed by: User
 Ident: 1114376
 Analysis from: 7/8/2008 18:19:05
 File: S7081819.CHW

Method 300.0/9056

Last save: 7/8/2008 18:31:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37909
 SAMPLE: NO2
 Vial number: 33
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.21	2.440	-2.779	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.74	0.165	1.740	Nitrate
6	9.53	107.528	214.636	Sulfate
6	12.00	110.133	219.155	

255 → 250 ml

7/9/08

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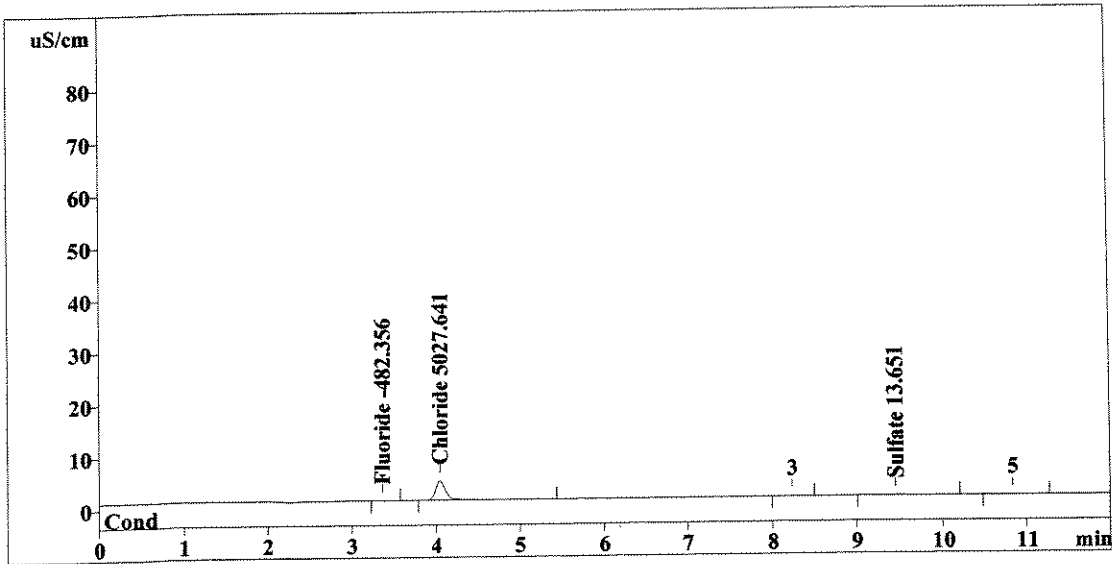
Method 300.0/9056

Report date: 7/8/2008 18:45:08
 Printed by: User
 Ident: 1114376
 Analysis from: 7/8/2008 18:33:10
 File: S7081833.CHW

Last save: 7/8/2008 18:45:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37910
 SAMPLE: C
 Vial number: 34
 Volume: 1.0 µL
 Dilution: 10000.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.214	-482.356	Fluoride
2	4.04	31.364	5027.641	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.46	1.137	13.651	Sulfate
6	12.00	32.715	5523.648	

255 → 250 ml

7/9/08

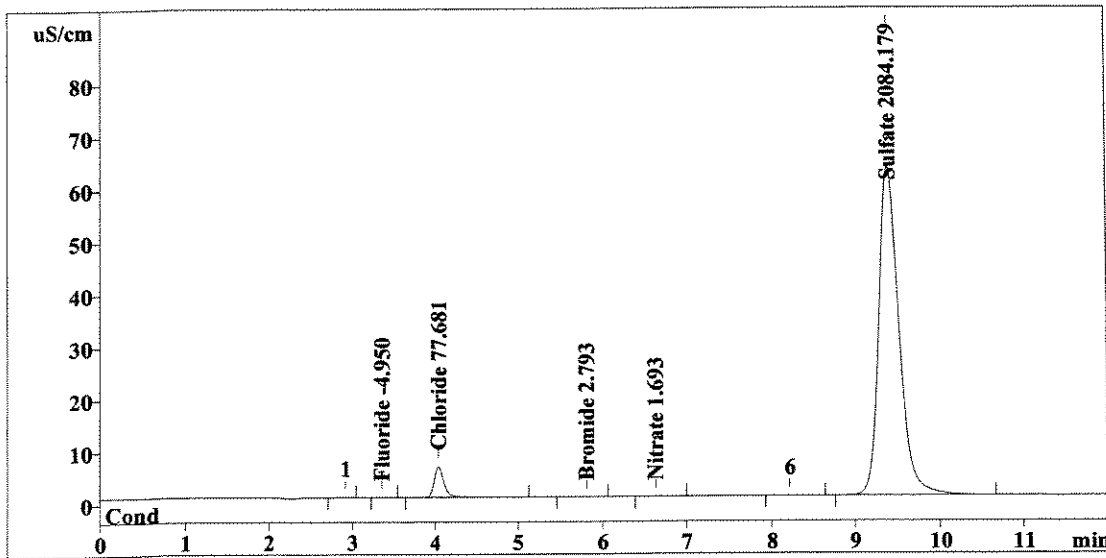
This report has been created by IC Net
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Report date: 7/8/2008 18:59:14
 Printed by: User
 Ident: 1114380
 Analysis from: 7/8/2008 18:47:16
 File: S7081847.CHW

Last save: 7/8/2008 18:59:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37911
 SAMPLE: CNNS
 Vial number: 35
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.075	-4.950	Fluoride
2	4.04	49.289	77.681	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.80	0.111	2.793	Bromide
5	6.64	0.086	1.693	Nitrate
6	9.40	1034.809	2084.179	Sulfate
6	12.00	1084.371	2171.297	

255 → 250.0

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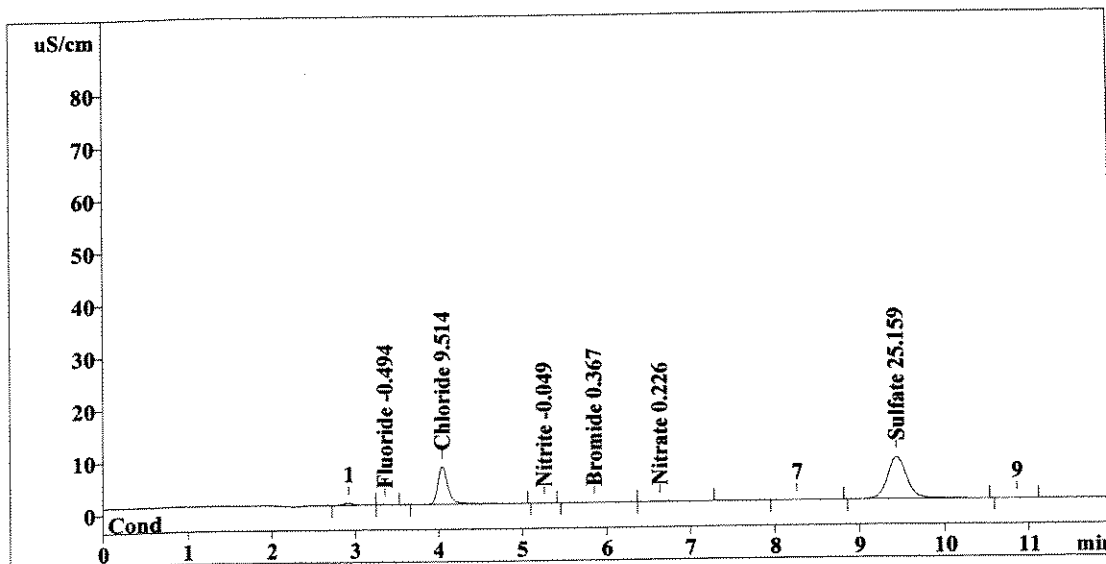
Method 300.0/9056

Report date: 7/8/2008 19:13:20
 Printed by: User
 Ident: 1114382
 Analysis from: 7/8/2008 19:01:22
 File: S7081901.CHW

Last save: 7/8/2008 19:13:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37912
 SAMPLE: CS
 Vial number: 36
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.087	-0.494	Fluoride
2	4.04	60.711	9.514	Chloride
3	5.26	0.063	-0.049	Nitrite
4	5.85	0.360	0.367	Bromide
5	6.64	1.026	0.226	Nitrate
6	9.44	125.859	25.159	Sulfate
6		12.00	188.107	35.810

25g → 250ml

*OK
7/9/08*

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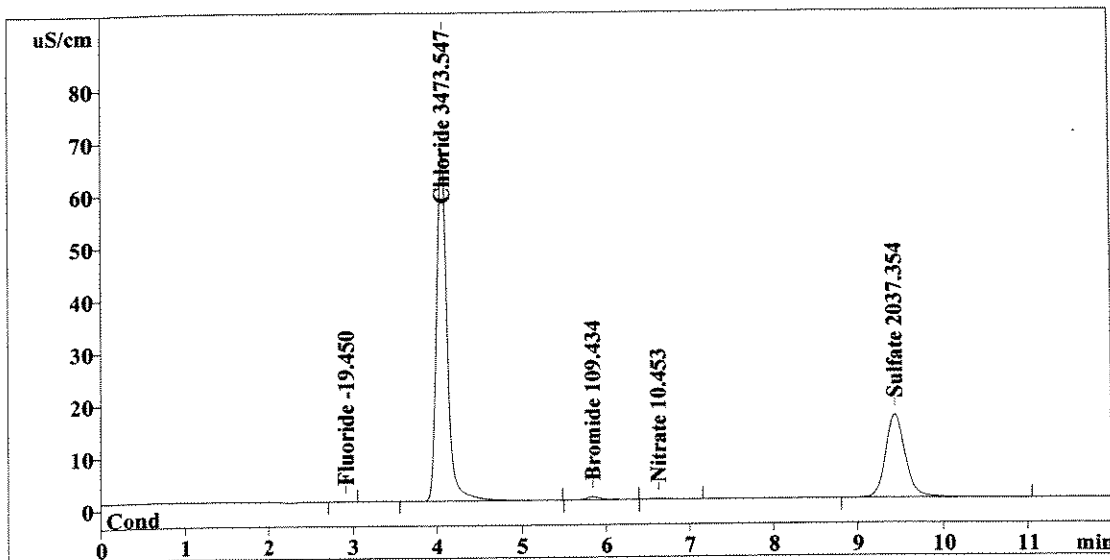
Method 300.0/9056

Report date: 7/8/2008 19:27:27
 Printed by: User
 Ident: 1111265
 Analysis from: 7/8/2008 19:15:29
 File: S7081915.CHW

Last save: 7/8/2008 19:27:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37913
 SAMPLE: CS
 Vial number: 37
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.171	-19.450	Fluoride
2	4.05	566.486	3473.547	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	7.057	109.434	Bromide
5	6.63	1.617	10.453	Nitrate
6	9.44	253.698	2037.354	Sulfate
<hr/>				
6	12.00	829.030	5650.238	

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502-
Not needed.
7/9/08

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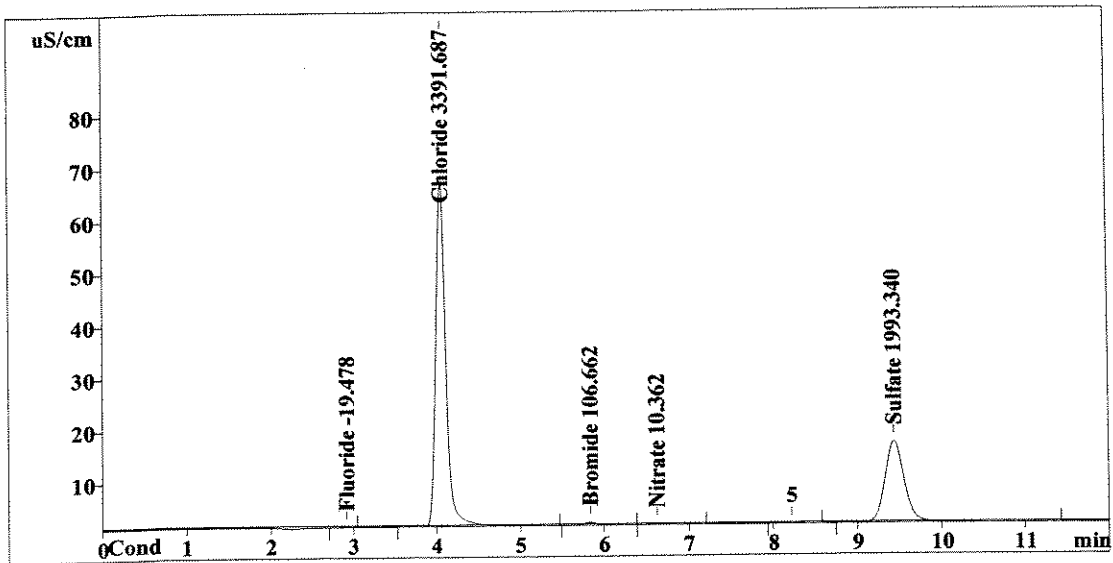
Method 300.0/9056

Report date: 7/8/2008 19:41:33
 Printed by: User
 Ident: 1111265 DUP
 Analysis from: 7/8/2008 19:29:35
 File: S7081929.CHW

Last save: 7/8/2008 19:41:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37914
 SAMPLE: CS
 Vial number: 38
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.164	-19.478	Fluoride
2	4.05	553.100	3391.687	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	6.861	106.662	Bromide
5	6.62	1.580	10.362	Nitrate
6	9.44	248.241	1993.340	Sulfate
<hr/>				
6	12.00	809.945	5521.529	

Handwritten signature and date: 7/9/08

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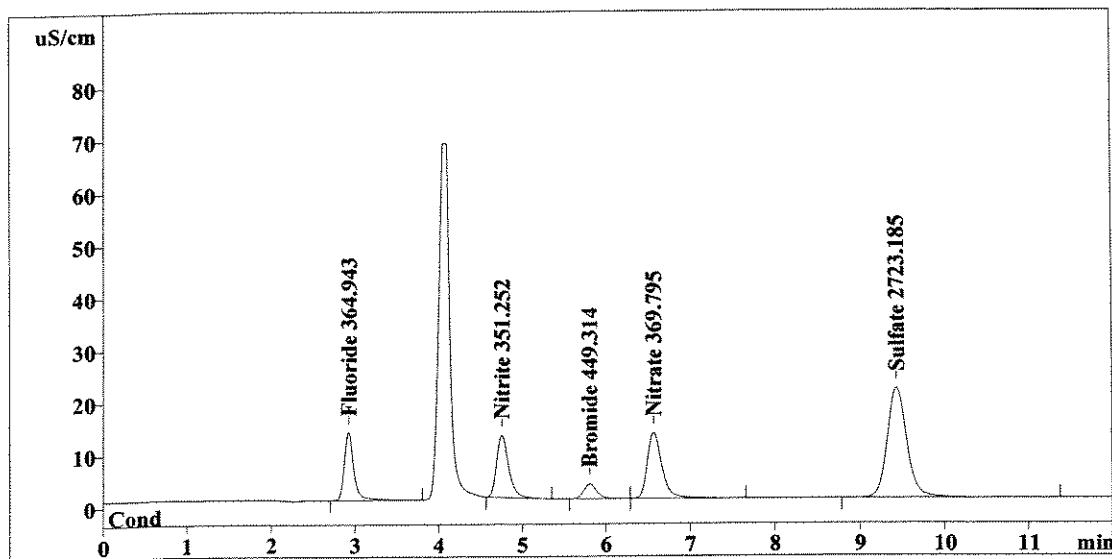
Method 300.0/9056

Report date: 7/8/2008 19:55:39
 Printed by: User
 Ident: 1111265 SPK
 Analysis from: 7/8/2008 19:43:40
 File: S7081943.CHW

Last save: 7/8/2008 19:55:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37915
 SAMPLE: CS
 Vial number: 39
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	104.807	364.943	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.75	120.037	351.252	Nitrite
4	5.81	31.079	449.314	Bromide
5	6.56	151.035	369.795	Nitrate
6	9.43	338.740	2723.185	Sulfate
6	12.00	745.699	4258.489	

OK
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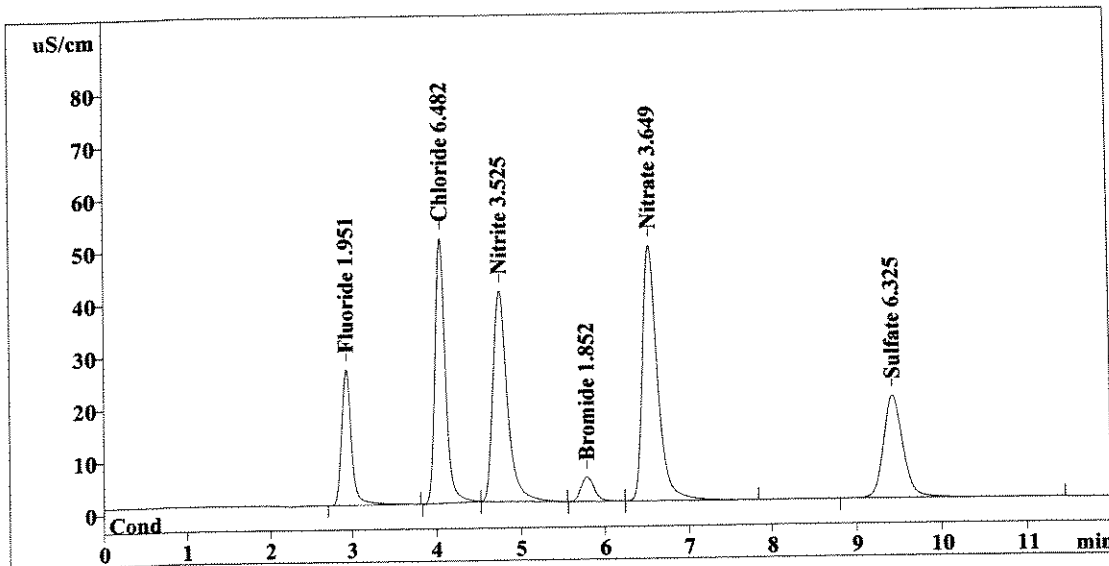
Method 300.0/9056

Report date: 7/8/2008 20:09:44
 Printed by: User
 Ident: CCV
 Analysis from: 7/8/2008 19:57:46
 File: S7081957.CHW

Last save: 7/8/2008 20:09:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37916
 SAMPLE:
 Vial number: 40
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	217.870	1.951	Fluoride
2	4.04	422.452	6.482	Chloride
3	4.74	479.629	3.525	Nitrite
4	5.79	51.675	1.852	Bromide
5	6.53	604.161	3.649	Nitrate
6	9.43	314.787	6.325	Sulfate
<hr/>				
6	12.00	2090.574	23.783	

OK
 ↓
 CM
 7/9/08

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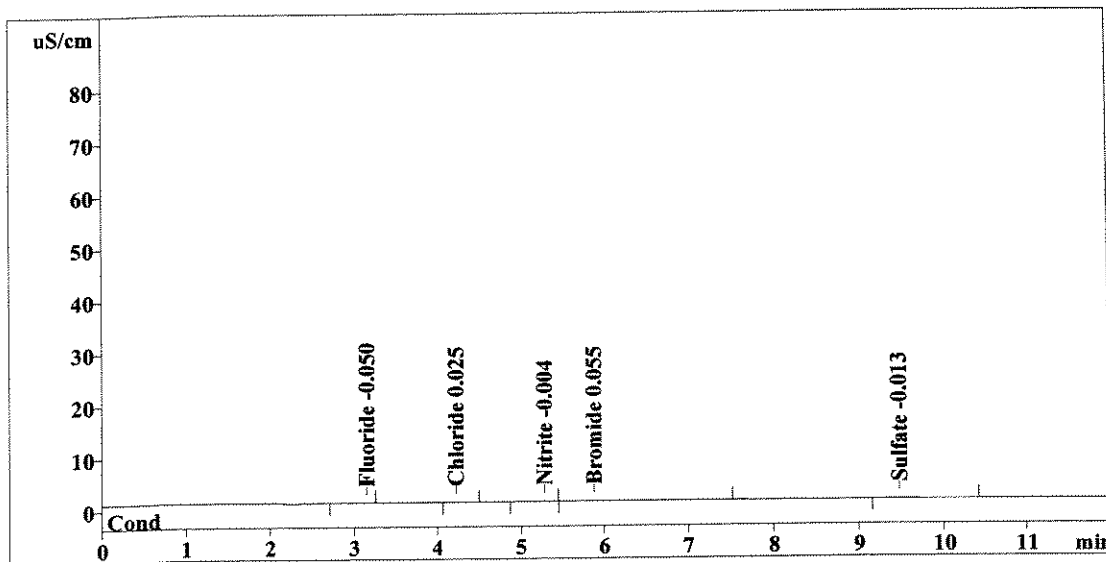
Ion Chromatography Analytical Report
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 Report date: 7/8/2008 20:23:50
 Printed by: User
 Ident: CCB
 Analysis from: 7/8/2008 20:11:52
 File: S7082011.CHW

Method 300.0/9056

Last save: 7/8/2008 20:23:51

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37917
 SAMPLE:
 Vial number: 41
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.14	0.076	-0.050	Fluoride
2	4.22	0.086	0.025	Chloride
3	5.27	0.125	-0.004	Nitrite
4	5.87	0.884	0.055	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	0.448	-0.013	Sulfate
<hr/>				
6	12.00	1.619	0.146	

OK
 ↓
 CCB
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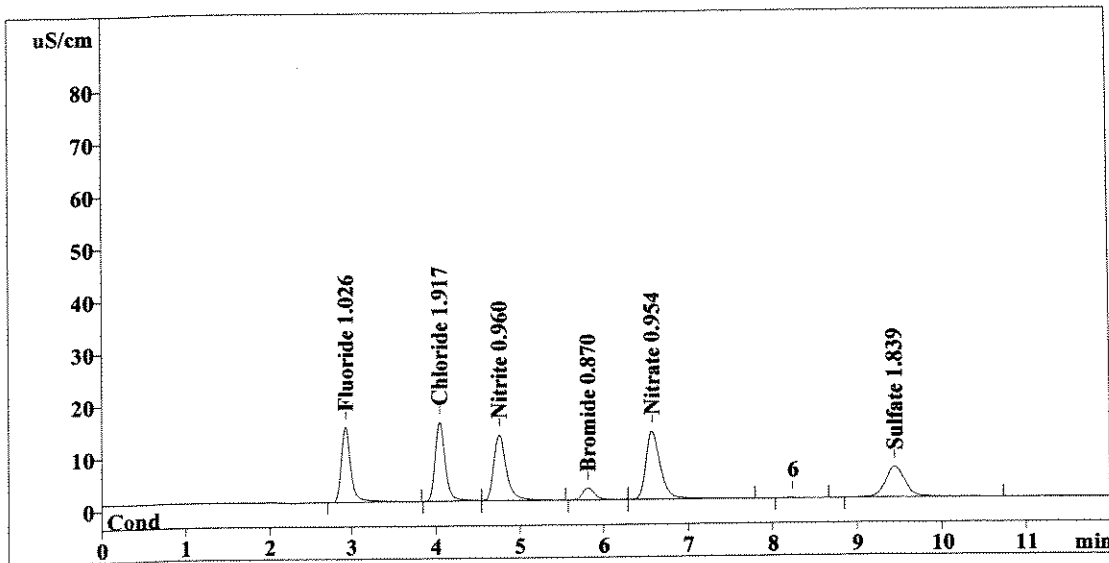
Method 300.0/9056

Report date: 7/8/2008 20:37:56
 Printed by: User
 Ident: LCS
 Analysis from: 7/8/2008 20:25:58
 File: S7082025.CHW

Last save: 7/8/2008 20:37:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37918
 SAMPLE:
 Vial number: 42
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	117.141	1.026	Fluoride
2	4.04	123.892	1.917	Chloride
3	4.75	131.146	0.960	Nitrite
4	5.82	23.920	0.870	Bromide
5	6.57	155.919	0.954	Nitrate
6	9.44	92.292	1.839	Sulfate
6	12.00	644.311	7.566	

Handwritten notes:
 Next to peak 1: OK
 Next to peak 2: ↓
 Next to peak 3: OK
 Next to peak 4: OUT Low
 Next to peak 5: OK
 Next to peak 6: ↓
 At bottom: CMM 7/9/08

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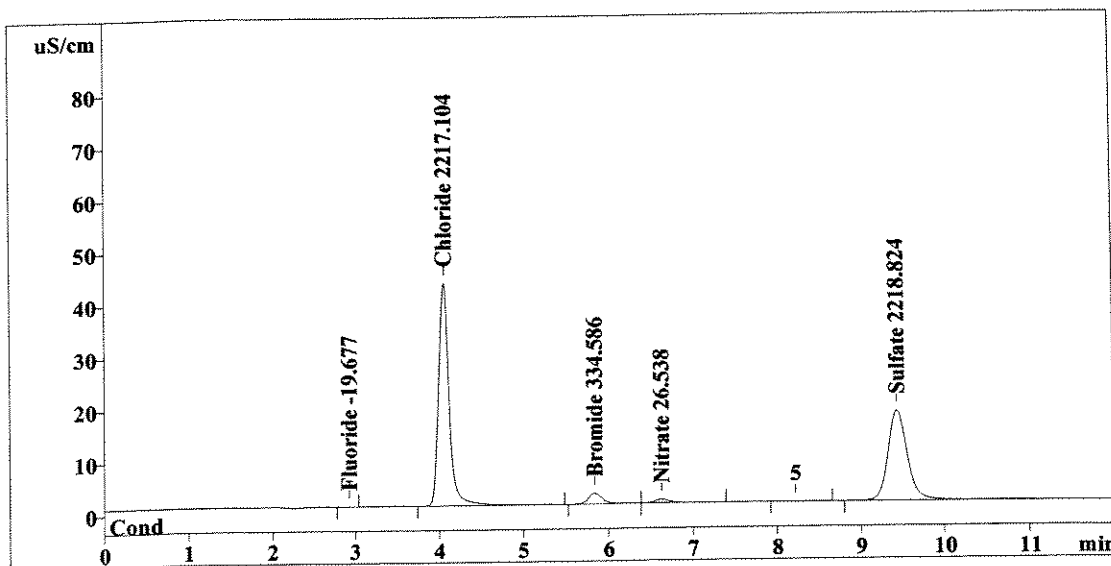
Method 300.0/9056

Report date: 7/8/2008 20:52:02
 Printed by: User
 Ident: 1111266
 Analysis from: 7/8/2008 20:40:04
 File: S7082040.CHW

Last save: 7/8/2008 20:52:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37919
 SAMPLE: CS
 Vial number: 43
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.109	-19.677	Fluoride
2	4.05	361.028	2217.104	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	22.970	334.586	Bromide
5	6.62	8.306	26.538	Nitrate
6	9.44	276.200	2218.824	Sulfate
6	12.00	668.613	4816.729	

OK (handwritten next to Chloride)
OK (handwritten next to Sulfate)
SM
7/9/08 (handwritten signature and date)

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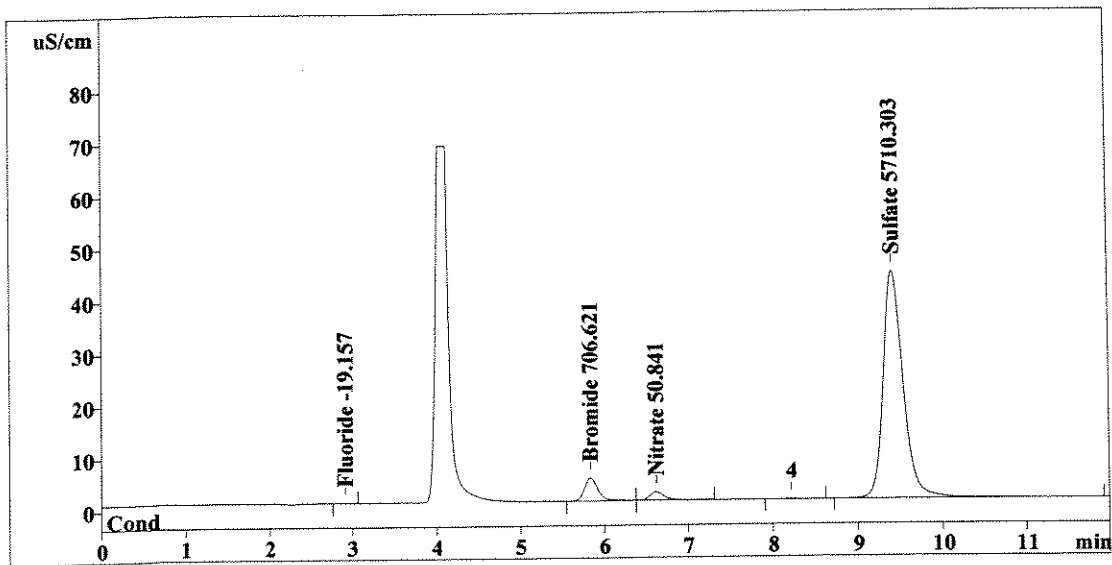
Method 300.0/9056

Report date: 7/8/2008 21:06:08
 Printed by: User
 Ident: 1111267
 Analysis from: 7/8/2008 20:54:10
 File: S7082054.CHW

Last save: 7/8/2008 21:06:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37920
 SAMPLE: CS
 Vial number: 44
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.251	-19.157	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.83	49.266	706.621	Bromide
5	6.61	18.411	50.841	Nitrate
6	9.42	709.138	5710.303	Sulfate
<hr/>				
6	12.00	777.065	6486.922	

Handwritten signature and date: 7/9/08

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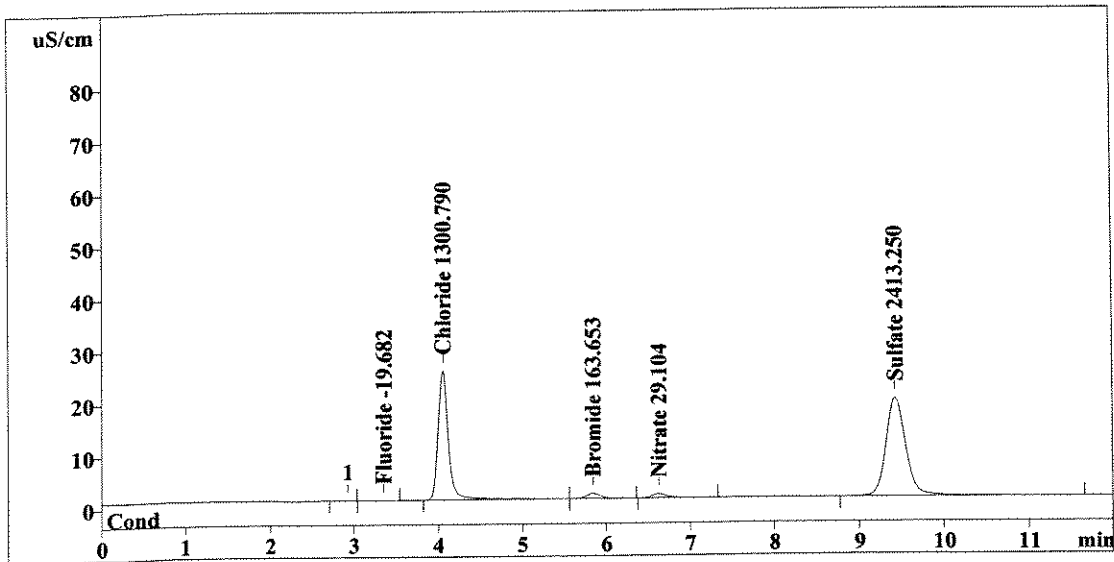
Method 300.0/9056

Report date: 7/8/2008 21:20:14
 Printed by: User
 Ident: 1111763
 Analysis from: 7/8/2008 21:08:16
 File: S7082108.CHW

Last save: 7/8/2008 21:20:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37921
 SAMPLE: CS
 Vial number: 45
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.108	-19.682	Fluoride
2	4.04	211.189	1300.790	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	10.889	163.653	Bromide
5	6.62	9.373	29.104	Nitrate
6	9.43	300.309	2413.250	Sulfate
<hr/>				
6	12.00	531.867	3926.480	

OK
OK
cm
7/9/08

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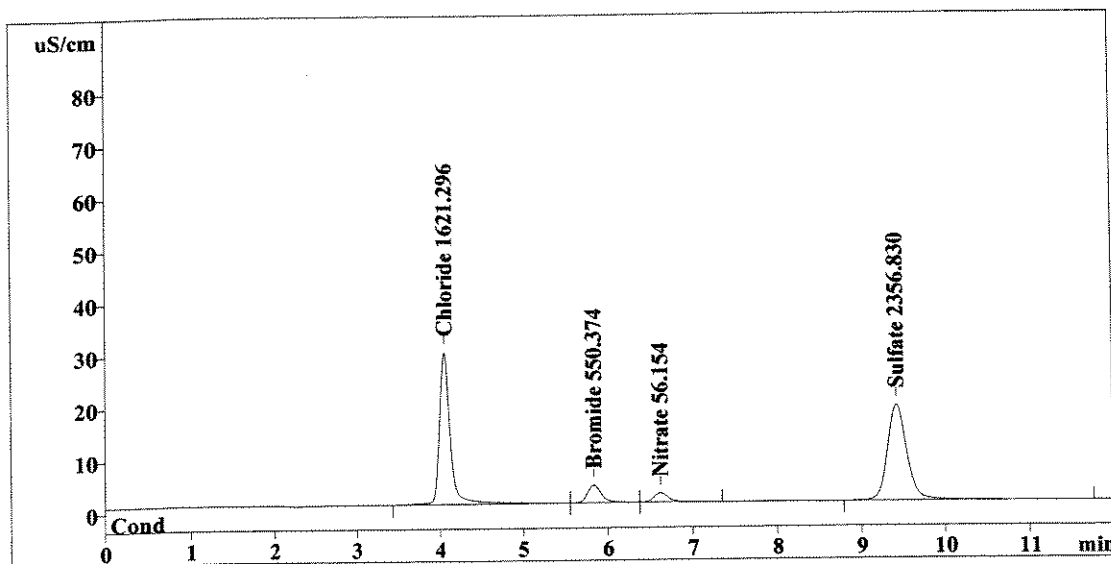
Ion Chromatography Analytical Report
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 Report date: 7/8/2008 21:34:20
 Printed by: User
 Ident: 1111764
 Analysis from: 7/8/2008 21:22:22
 File: S7082122.CHW

Method 300.0/9056

Last save: 7/8/2008 21:34:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37922
 SAMPLE: CS
 Vial number: 46
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.05	263.599	1621.296	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.83	38.222	550.374	Bromide
5	6.62	20.620	56.154	Nitrate
6	9.43	293.313	2356.830	Sulfate
<hr/>				
6	12.00	615.754	4584.653	

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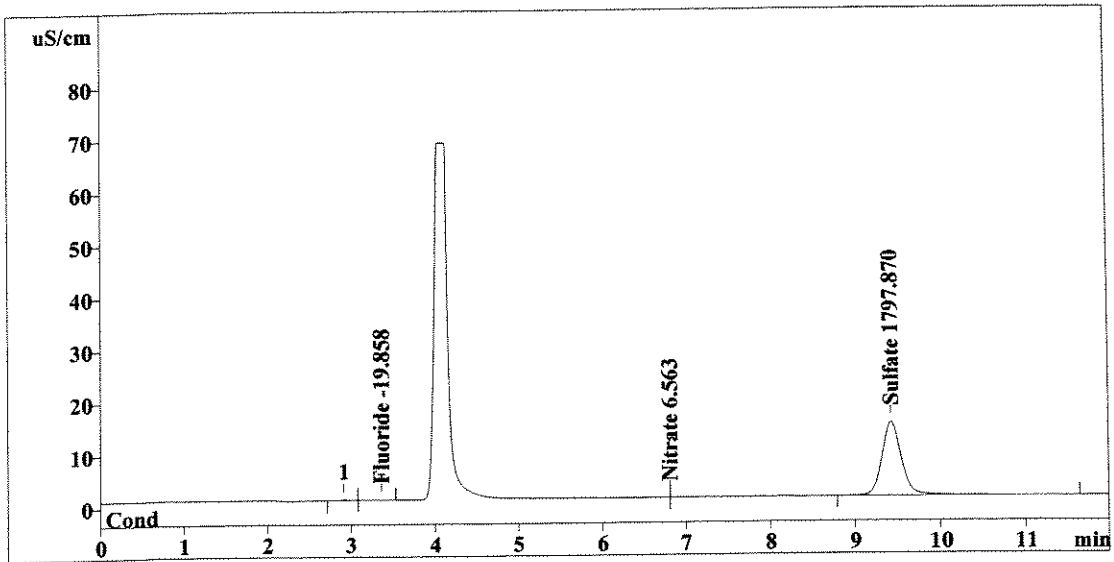
Method 300.0/9056

Report date: 7/8/2008 21:48:26
 Printed by: User
 Ident: 1111765
 Analysis from: 7/8/2008 21:36:28
 File: S7082136.CHW

Last save: 7/8/2008 21:48:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37923
 SAMPLE: CS
 Vial number: 47
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.060	-19.858	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.81	-0.000	6.563	Nitrate
6	9.43	224.003	1797.870	Sulfate
<hr/>				
6	12.00	224.063	1824.291	

Handwritten notes: 1/1000 next to row 2; OK next to row 6; 7/9/08 next to row 6.

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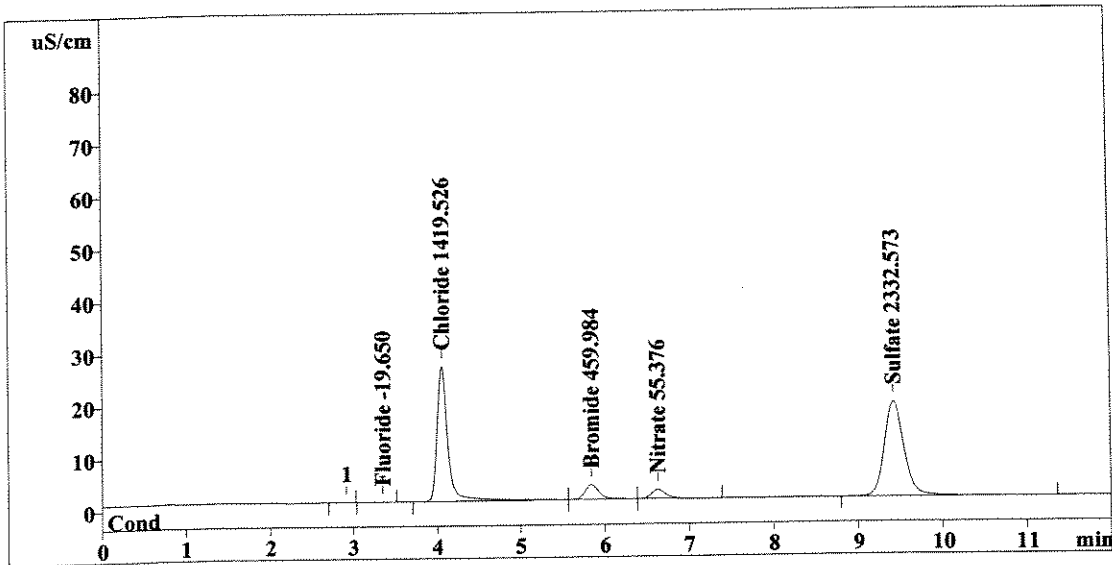
Method 300.0/9056

Report date: 7/8/2008 22:02:31
 Printed by: User
 Ident: 1112065
 Analysis from: 7/8/2008 21:50:33
 File: S7082150.CHW

Last save: 7/8/2008 22:02:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37924
 SAMPLE: CS
 Vial number: 48
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.117	-19.650	Fluoride
2	4.05	230.605	1419.526	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	31.833	459.984	Bromide
5	6.63	20.297	55.376	Nitrate
6	9.42	290.305	2332.573	Sulfate
<hr/>				
6	12.00	573.156	4287.109	

Handwritten signature and date: 7/9/08

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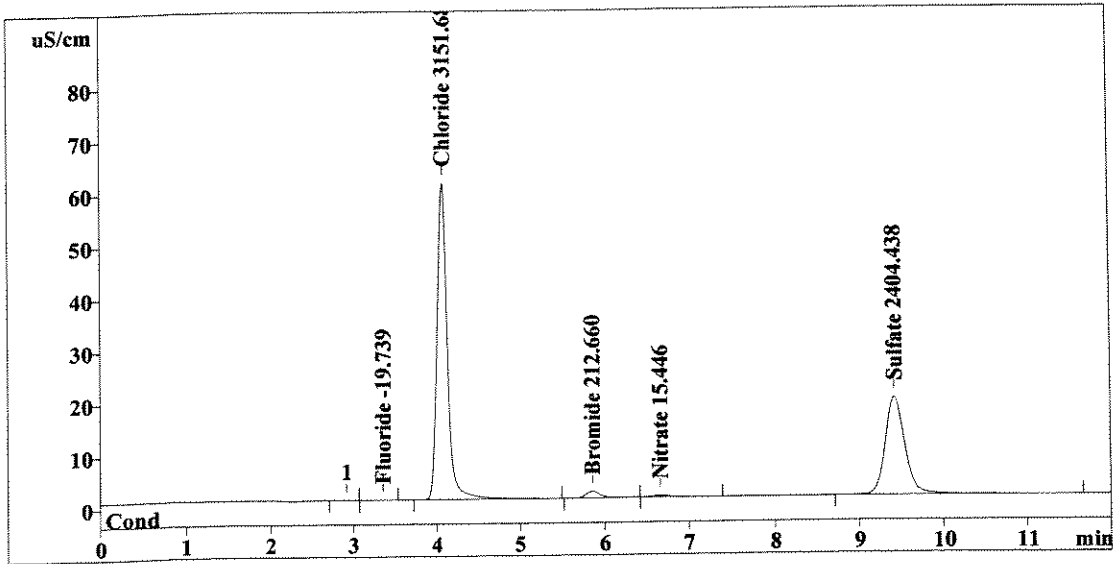
Method 300.0/9056

Report date: 7/8/2008 22:16:39
 Printed by: User
 Ident: 1112066
 Analysis from: 7/8/2008 22:04:39
 File: S7082204.CHW

Last save: 7/8/2008 22:16:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37925
 SAMPLE: CS
 Vial number: 49
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.093	-19.739	Fluoride
2	4.06	513.854	3151.683	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.85	14.353	212.660	Bromide
5	6.66	3.693	15.446	Nitrate
6	9.42	299.216	2404.438	Sulfate
<hr/>				
6	12.00	831.208	5803.965	

Handwritten signature and date: 7/9/08

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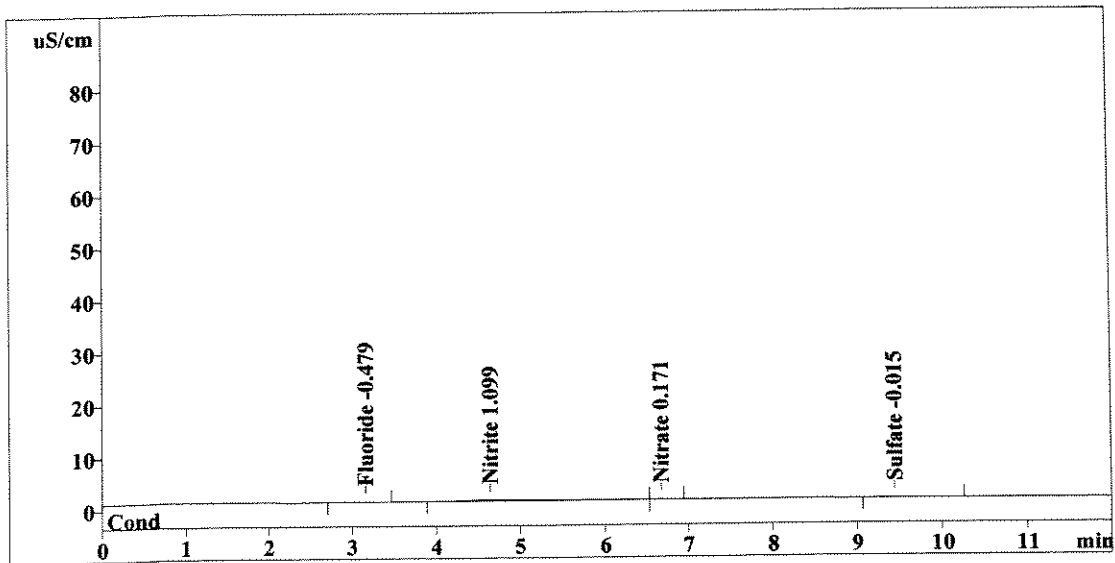
Method 300.0/9056

Report date: 7/8/2008 22:30:45
 Printed by: User
 Ident: 1112067
 Analysis from: 7/8/2008 22:18:47
 File: S7082218.CHW

Last save: 7/8/2008 22:30:45

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37926
 SAMPLE: CS
 Vial number: 50
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.16	0.251	-0.479	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.64	15.657	1.099	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.68	0.122	0.171	Nitrate
6	9.44	0.997	-0.015	Sulfate
<hr/>				
6	12.00	17.027	1.764	

OK
OK
CS
7/9/08

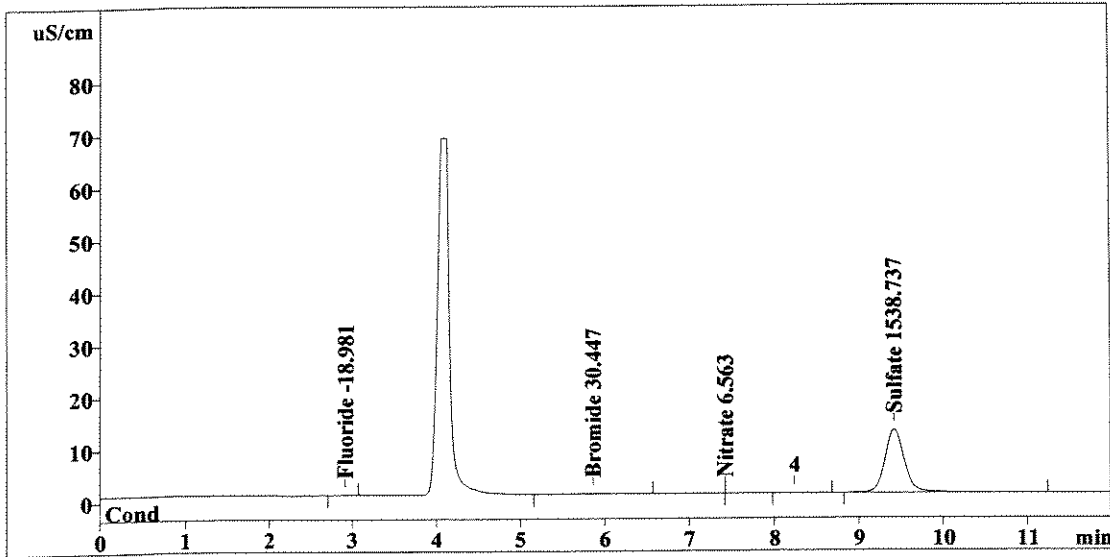
This report has been created by IC Net
 METROHM LTD

Report date: 7/8/2008 22:44:51
 Printed by: User
 Ident: 1112486
 Analysis from: 7/8/2008 22:32:53
 File: S7082232.CHW

Last save: 7/8/2008 22:44:51

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37927
 SAMPLE: CS
 Vial number: 51
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.299	-18.981	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.85	1.474	30.447	Bromide
5	7.42	-0.000	6.563	Nitrate
6	9.42	191.871	1538.737	Sulfate
6	12.00	193.643	1594.728	

Handwritten notes: 1/1000 next to row 2; OK next to row 6; 7/9/08 next to row 6.

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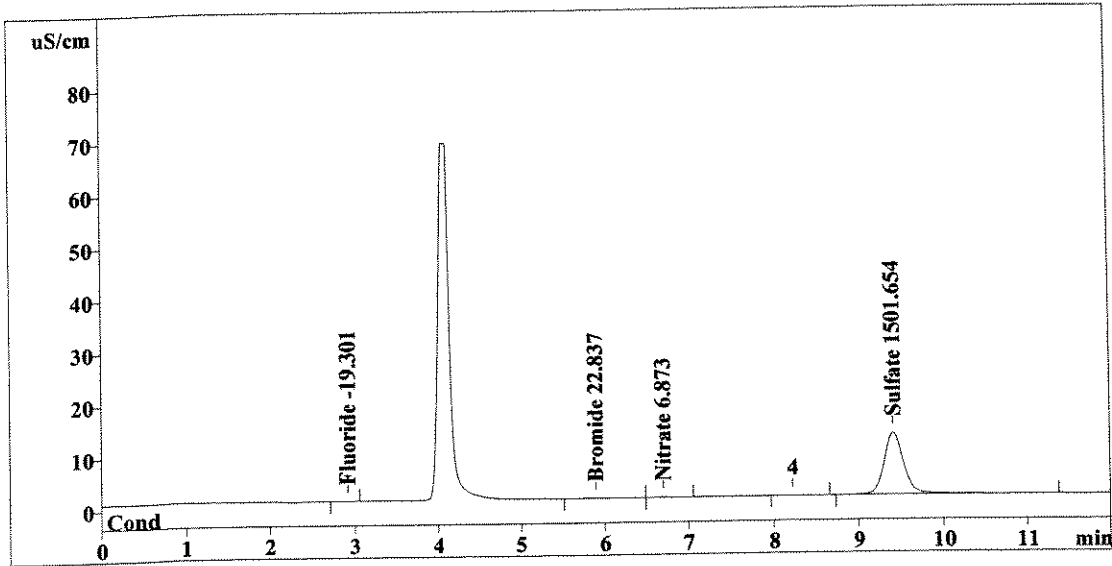
Method 300.0/9056

Report date: 7/8/2008 22:58:57
 Printed by: User
 Ident: 1112487
 Analysis from: 7/8/2008 22:46:59
 File: S7082246.CHW

Last save: 7/8/2008 22:58:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37928
 SAMPLE: CS
 Vial number: 52
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.212	-19.301	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	0.936	22.837	Bromide
5	6.70	0.129	6.873	Nitrate
6	9.42	187.272	1501.654	Sulfate
6	12.00	188.549	1550.666	

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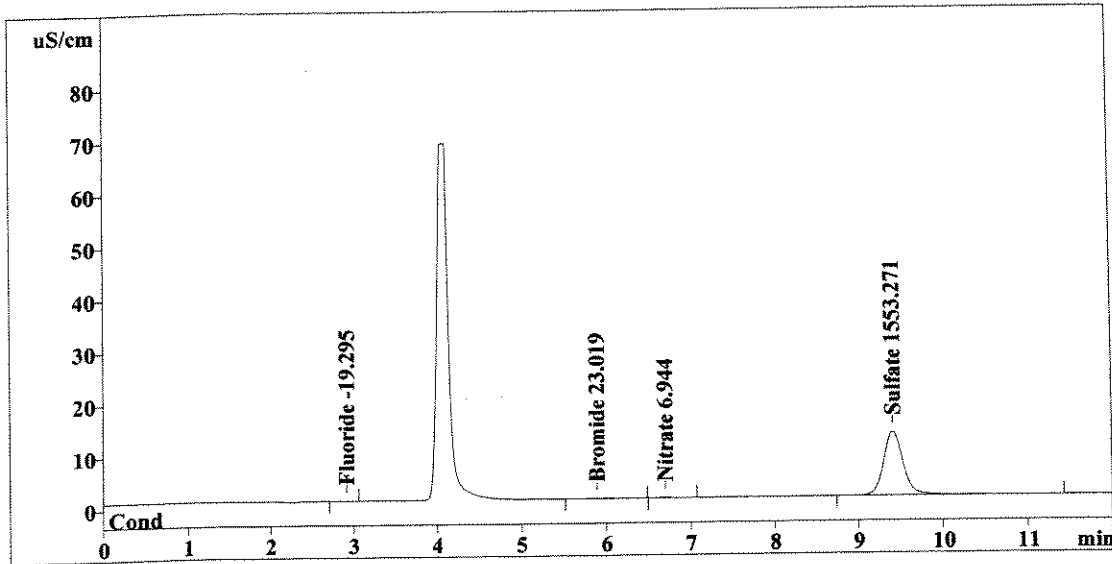
Method 300.0/9056

Report date: 7/8/2008 23:13:03
 Printed by: User
 Ident: 1112487 DUP
 Analysis from: 7/8/2008 23:01:05
 File: S7082301.CHW

Last save: 7/8/2008 23:13:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37929
 SAMPLE: CS
 Vial number: 53
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.213	-19.295	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	0.949	23.019	Bromide
5	6.70	0.158	6.944	Nitrate
6	9.41	193.673	1553.271	Sulfate
<hr/>				
6	12.00	194.993	1602.529	

OK

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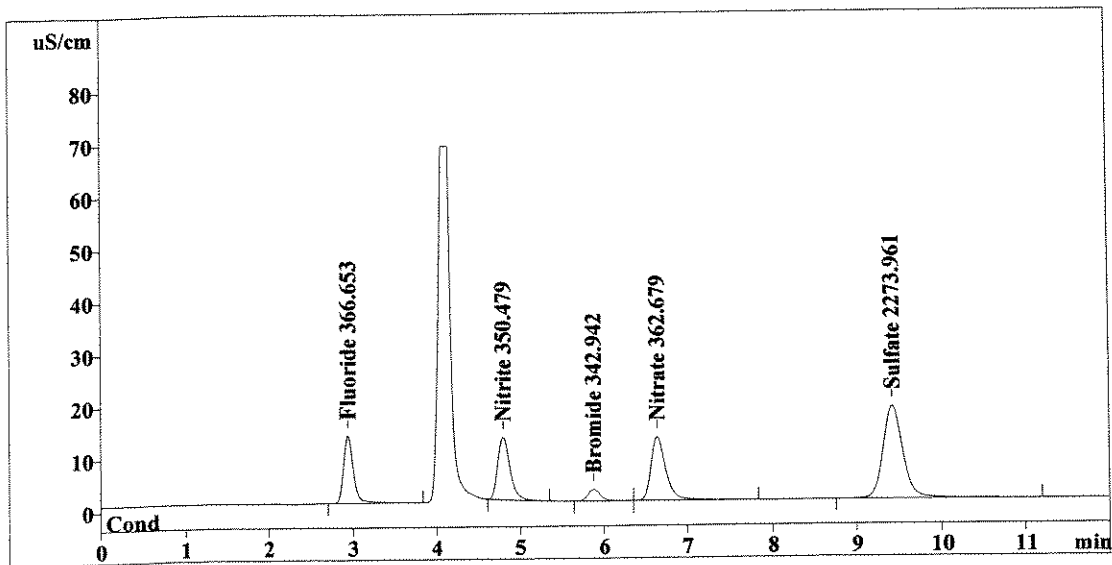
Method 300.0/9056

Report date: 7/8/2008 23:27:08
 Printed by: User
 Ident: 1112487 SPK
 Analysis from: 7/8/2008 23:15:10
 File: S7082315.CHW

Last save: 7/8/2008 23:27:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37930
 SAMPLE: CS
 Vial number: 54
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	105.273	366.653	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.79	119.774	350.479	Nitrite
4	5.87	23.561	342.942	Bromide
5	6.64	148.076	362.679	Nitrate
6	9.43	283.037	2273.961	Sulfate
<hr/>				
6	12.00	679.721	3696.715	

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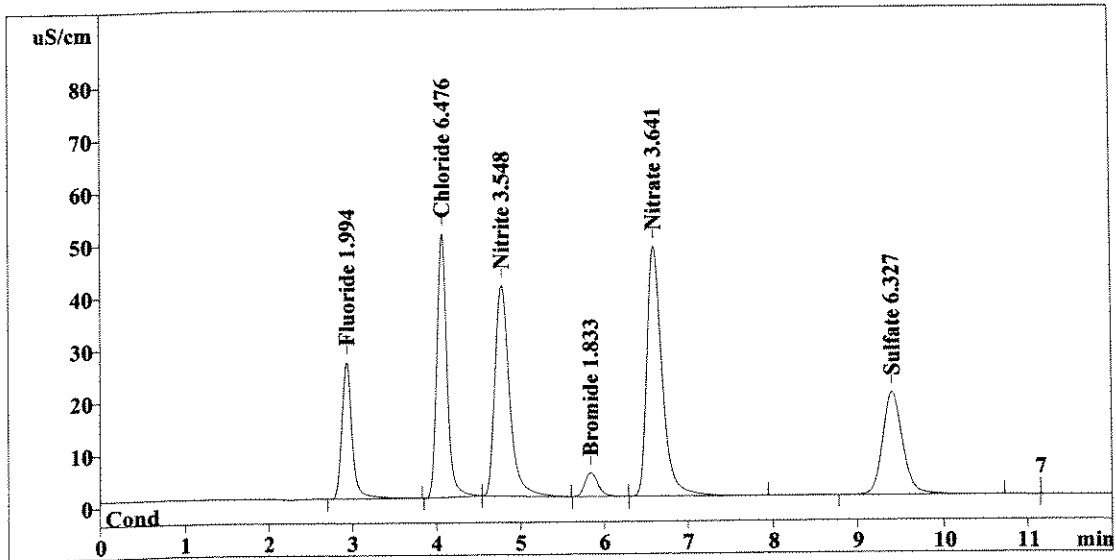
Method 300.0/9056

Report date: 7/8/2008 23:41:14
 Printed by: User
 Ident: CCV
 Analysis from: 7/8/2008 23:29:16
 File: S7082329.CHW

Last save: 7/8/2008 23:41:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37931
 SAMPLE:
 Vial number: 55
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	222.625	1.994	Fluoride
2	4.05	422.072	6.476	Chloride
3	4.77	482.824	3.548	Nitrite
4	5.84	51.155	1.833	Bromide
5	6.59	602.934	3.641	Nitrate
6	9.40	314.905	6.327	Sulfate
<hr/>				
6	12.00	2096.515	23.821	

OK
 ↓
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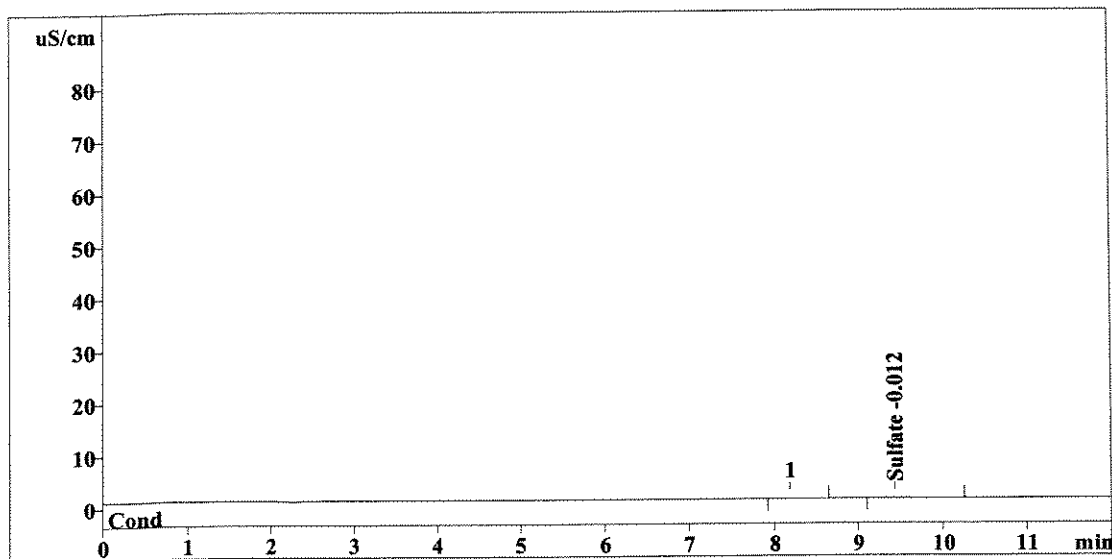
Method 300.0/9056

Report date: 7/8/2008 23:55:20
 Printed by: User
 Ident: CCB
 Analysis from: 7/8/2008 23:43:22
 File: S7082343.CHW

Last save: 7/8/2008 23:55:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37932
 SAMPLE:
 Vial number: 56
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.44	0.470	-0.012	Sulfate
6	12.00	0.470	0.012	

OK
 ↓
CM
 7/9/08

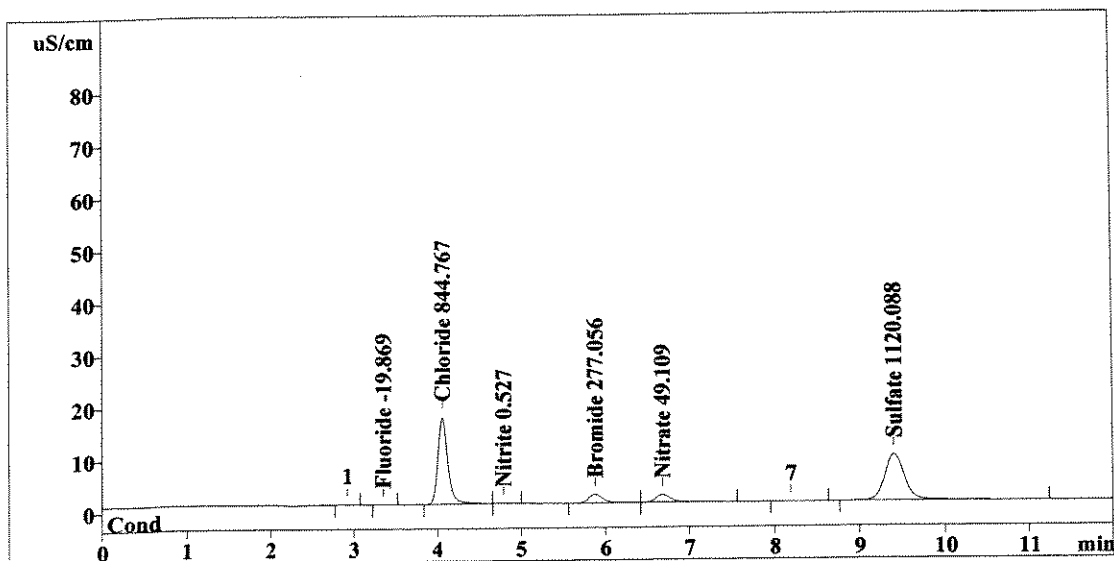
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Report date: 7/9/2008 00:09:26
 Printed by: User
 Ident: 1112488
 Analysis from: 7/8/2008 23:57:28
 File: S7082357.CHW

Last save: 7/9/2008 00:09:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37933
 SAMPLE: CS
 Vial number: 57
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.057	-19.869	Fluoride
2	4.06	136.618	844.767	Chloride
3	4.79	0.904	0.527	Nitrite
4	5.88	18.904	277.056	Bromide
5	6.68	17.691	49.109	Nitrate
6	9.41	139.959	1120.088	Sulfate
<hr/>				
6	12.00	314.133	2311.417	

Handwritten signature and date: 7/9/08

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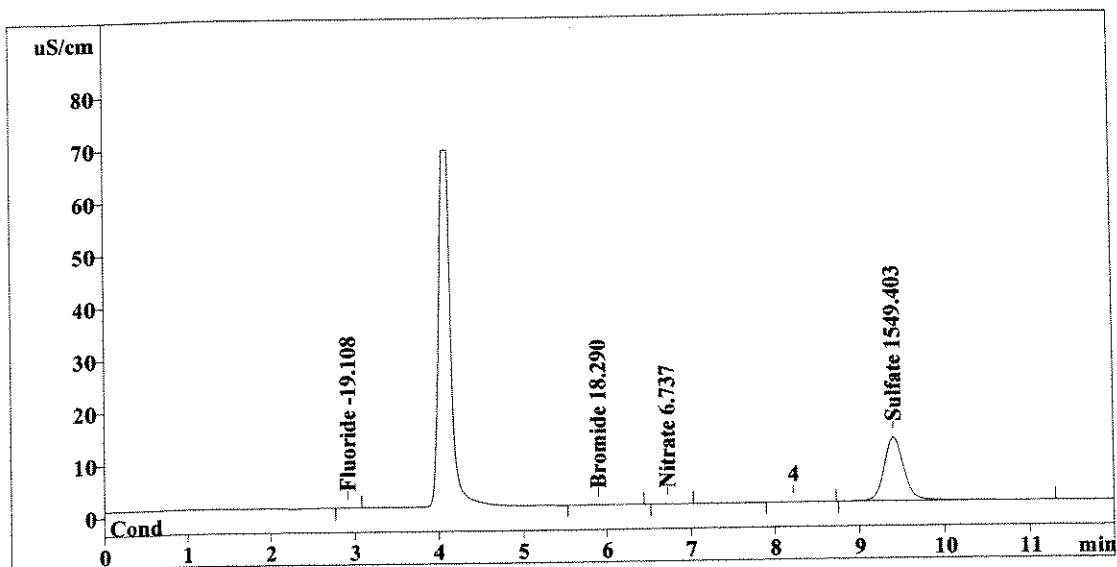
Method 300.0/9056

Report date: 7/9/2008 00:23:32
 Printed by: User
 Ident: 1112489
 Analysis from: 7/9/2008 00:11:34
 File: S7090011.CHW

Last save: 7/9/2008 00:23:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37934
 SAMPLE: CS
 Vial number: 58
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.264	-19.108	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	0.614	18.290	Bromide
5	6.72	0.072	6.737	Nitrate
6	9.40	193.193	1549.403	Sulfate
<hr/>				
6	12.00	194.144	1593.538	

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 OK
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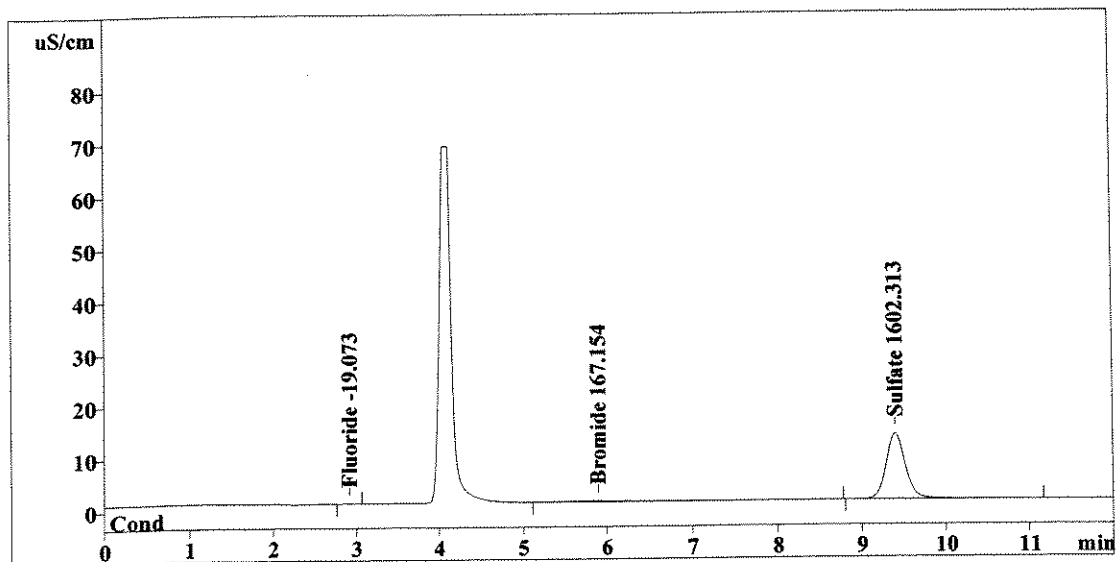
Method 300.0/9056

Report date: 7/9/2008 00:37:38
 Printed by: User
 Ident: 1112809
 Analysis from: 7/9/2008 00:25:40
 File: S7090025.CHW

Last save: 7/9/2008 00:37:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37935
 SAMPLE: CS
 Vial number: 59
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.274	-19.073	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	11.136	167.154	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.40	199.754	1602.313	Sulfate
<hr/>				
6	12.00	211.164	1788.540	

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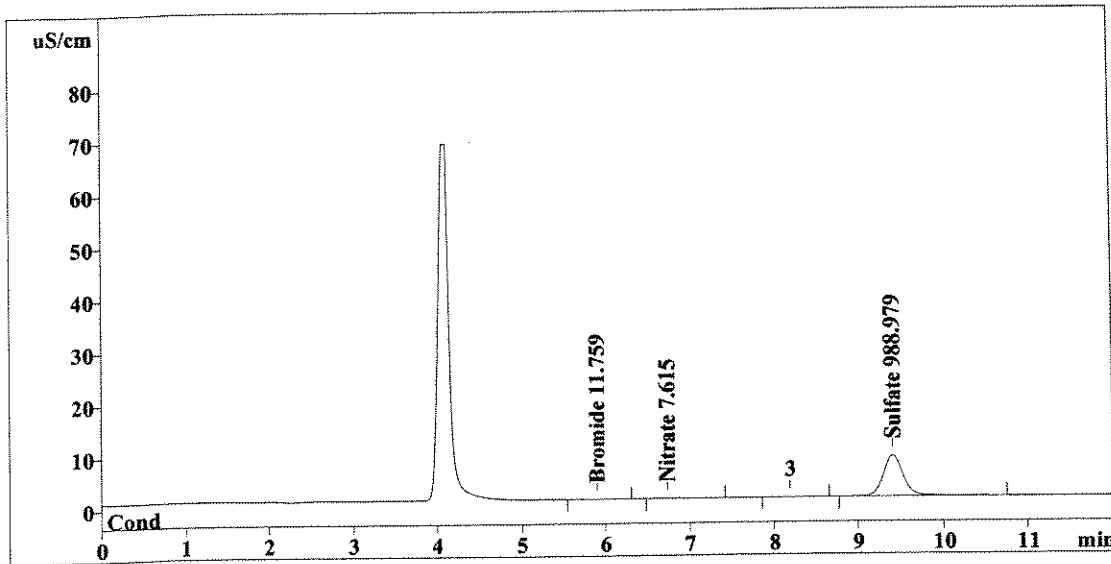
Method 300.0/9056

Report date: 7/9/2008 00:51:44
 Printed by: User
 Ident: 1112810
 Analysis from: 7/9/2008 00:39:46
 File: S7090039.CHW

Last save: 7/9/2008 00:51:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37936
 SAMPLE: CS
 Vial number: 60
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	0.153	11.759	Bromide
5	6.73	0.437	7.615	Nitrate
6	9.40	123.701	988.979	Sulfate
<hr/>				
6	12.00	124.292	1008.354	

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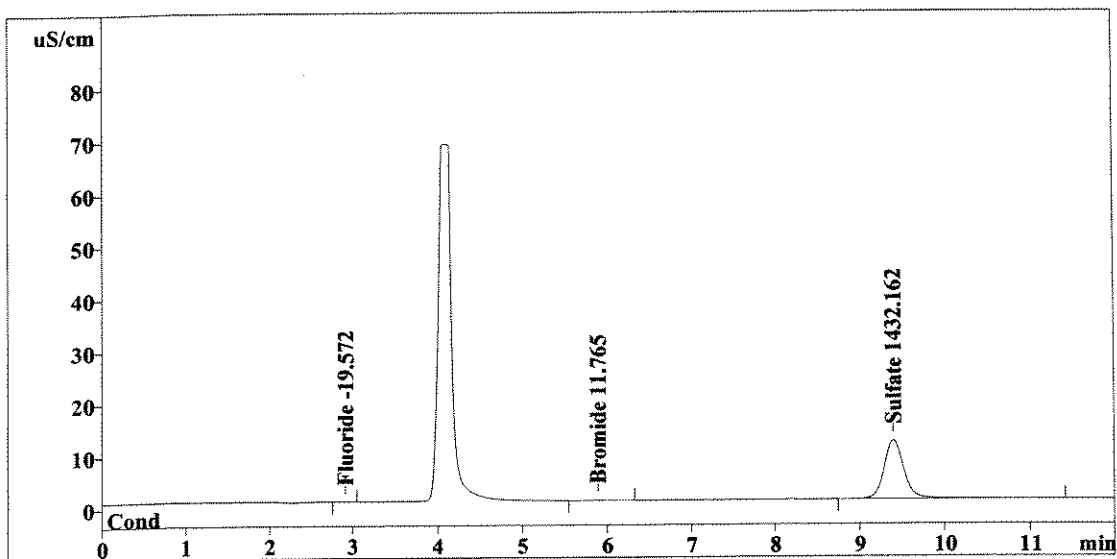
SO4 not needed.
CMY 7/9/08

Report date: 7/9/2008 01:05:50
 Printed by: User
 Ident: 1112811
 Analysis from: 7/9/2008 00:53:51
 File: S7090053.CHW

Last save: 7/9/2008 01:05:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37937
 SAMPLE: CS
 Vial number: 61
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.138	-19.572	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	0.153	11.765	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.40	178.655	1432.162	Sulfate
<hr/>				
6	12.00	178.947	1463.499	

1/1000
OK
7/9/08

SO4 not needed.
7/9/08

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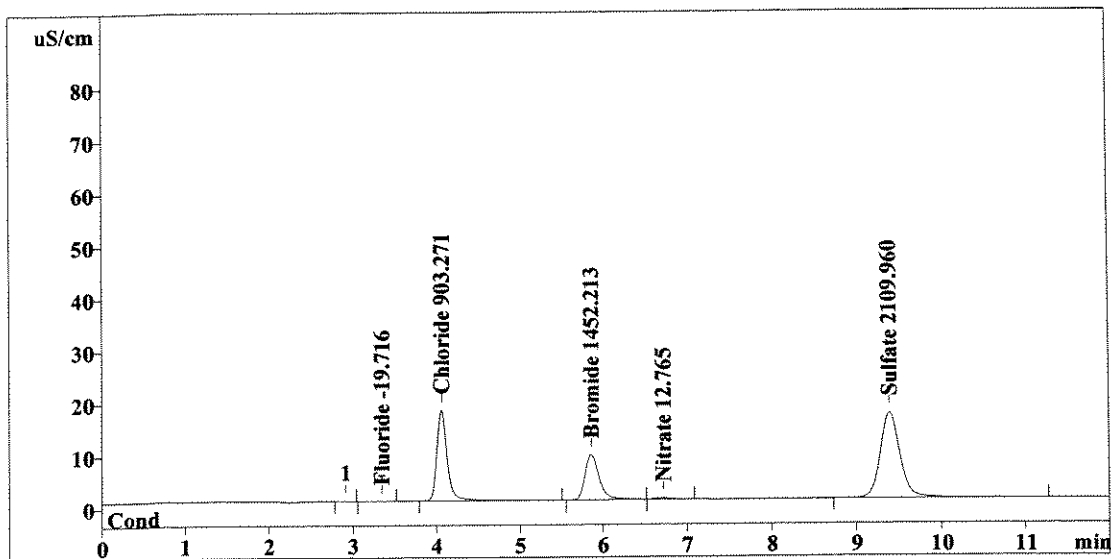
Method 300.0/9056

Report date: 7/9/2008 01:19:55
 Printed by: User
 Ident: 1113426
 Analysis from: 7/9/2008 01:07:57
 File: S7090107.CHW

Last save: 7/9/2008 01:19:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37938
 SAMPLE: CS
 Vial number: 62
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.099	-19.716	Fluoride
2	4.06	146.185	903.271	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.86	101.964	1452.213	Bromide
5	6.72	2.579	12.765	Nitrate
6	9.39	262.701	2109.960	Sulfate
<hr/>				
6	12.00	513.527	4497.925	

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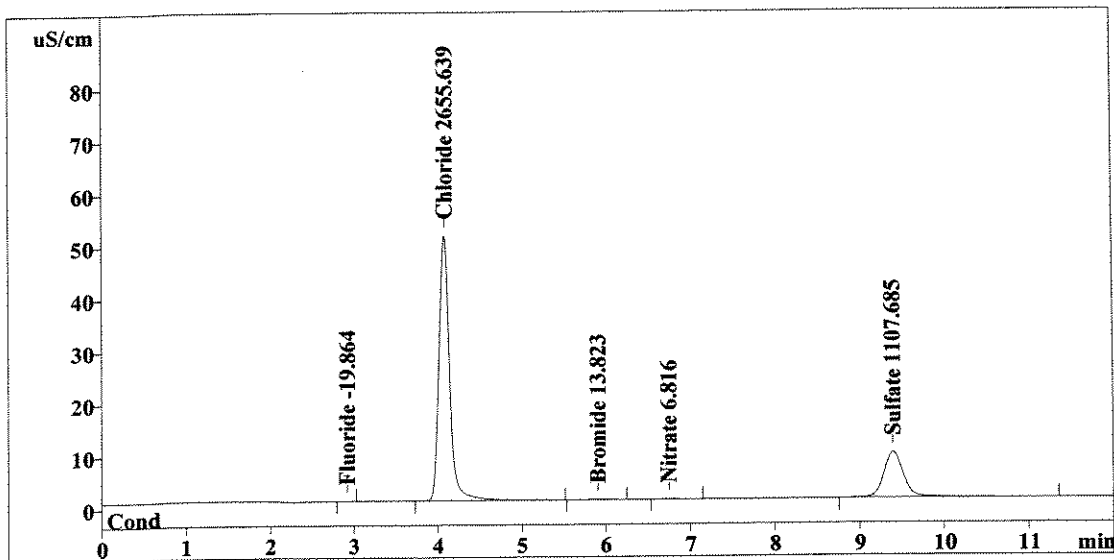
Method 300.0/9056

Report date: 7/9/2008 01:34:01
 Printed by: User
 Ident: 1113427
 Analysis from: 7/9/2008 01:22:03
 File: S7090122.CHW

Last save: 7/9/2008 01:34:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37939
 SAMPLE: CS
 Vial number: 63
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.058	-19.864	Fluoride
2	4.07	432.739	2655.639	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.299	13.823	Bromide
5	6.74	0.105	6.816	Nitrate
6	9.40	138.421	1107.685	Sulfate
<hr/>				
6	12.00	571.622	3803.827	

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OK
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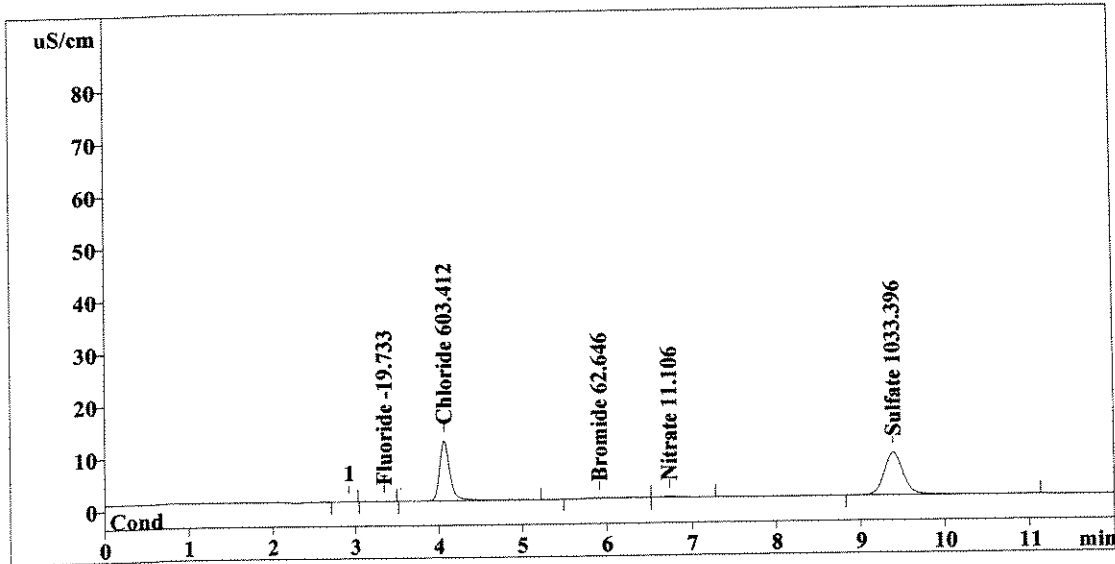
Method 300.0/9056

Report date: 7/9/2008 01:48:07
 Printed by: User
 Ident: 1113429
 Analysis from: 7/9/2008 01:36:09
 File: S7090136.CHW

Last save: 7/9/2008 01:48:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37940
 SAMPLE: CS
 Vial number: 64
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.094	-19.733	Fluoride
2	4.06	97.151	603.412	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	3.750	62.646	Bromide
5	6.73	1.889	11.106	Nitrate
6	9.39	129.209	1033.396	Sulfate
6	12.00	232.092	1730.295	

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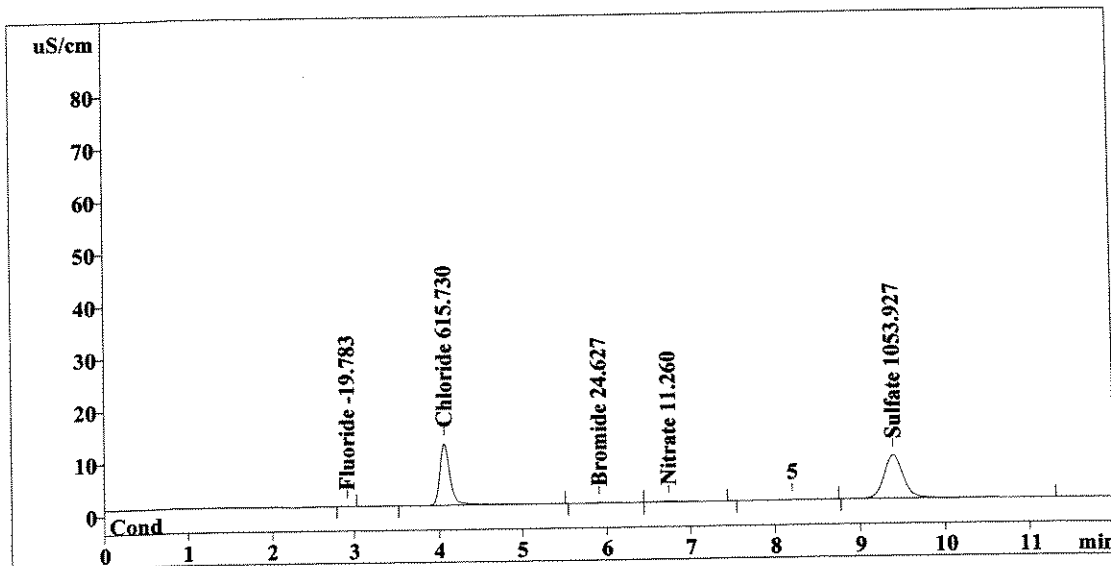
Method 300.0/9056

Report date: 7/9/2008 02:02:13
 Printed by: User
 Ident: 1113429 DUP
 Analysis from: 7/9/2008 01:50:15
 File: S7090150.CHW

Last save: 7/9/2008 02:02:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37941
 SAMPLE: CS
 Vial number: 65
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.080	-19.783	Fluoride
2	4.06	99.165	615.730	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	1.062	24.627	Bromide
5	6.74	1.953	11.260	Nitrate
6	9.39	131.755	1053.927	Sulfate
6	12.00	234.015	1725.327	

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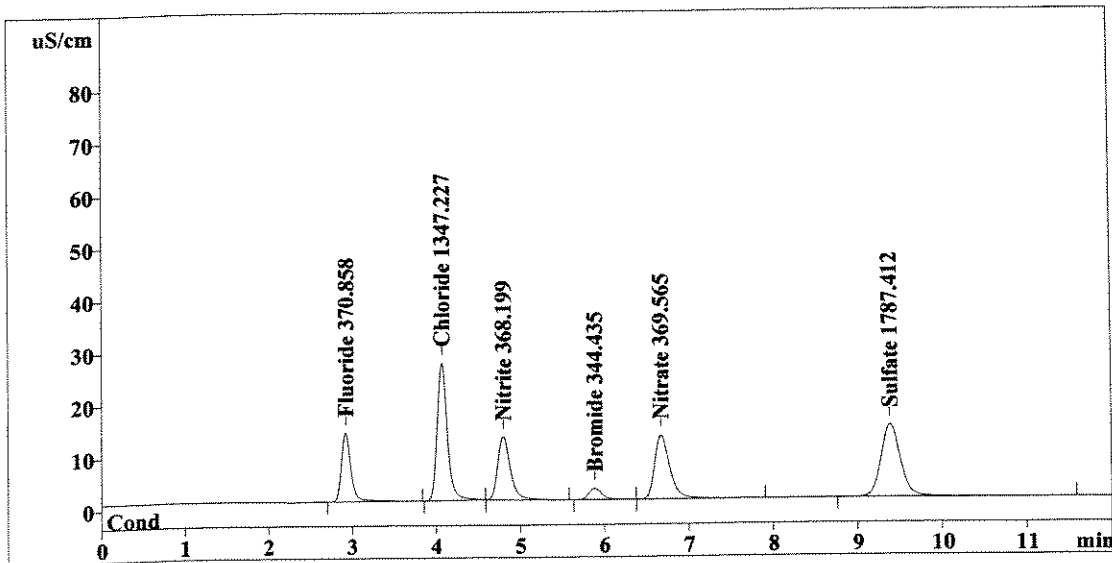
Method 300.0/9056

Report date: 7/9/2008 02:16:19
 Printed by: User
 Ident: 1113429 SPK
 Analysis from: 7/9/2008 02:04:21
 File: S7090204.CHW

Last save: 7/9/2008 02:16:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37942
 SAMPLE: CS
 Vial number: 66
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	106.417	370.858	Fluoride
2	4.06	218.782	1347.227	Chloride
3	4.79	125.793	368.199	Nitrite
4	5.88	23.666	344.435	Bromide
5	6.67	150.940	369.565	Nitrate
6	9.39	222.706	1787.412	Sulfate
<hr/>				
6	12.00	848.305	4587.697	

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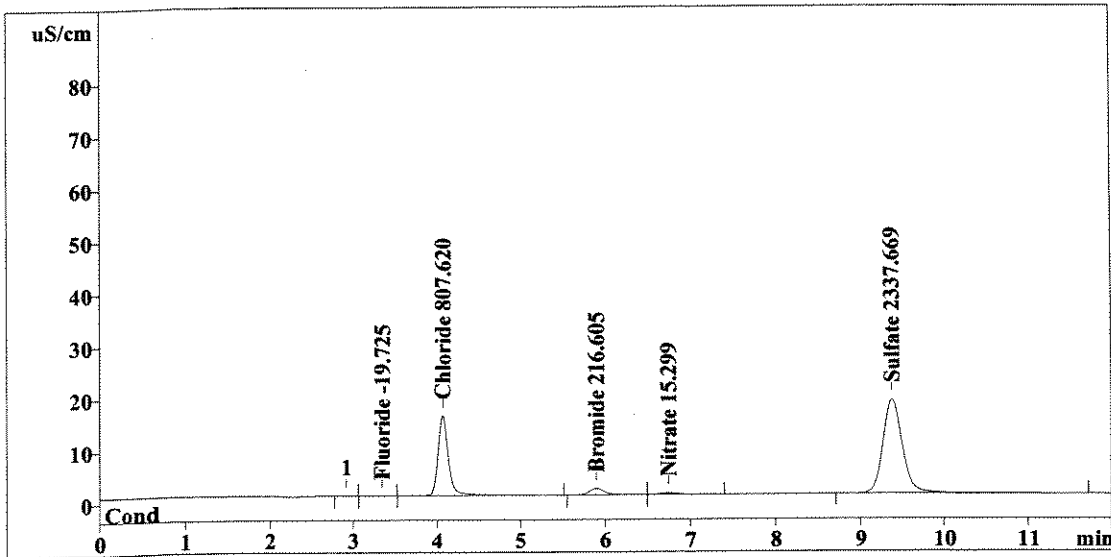
Method 300.0/9056

Report date: 7/9/2008 02:30:25
 Printed by: User
 Ident: 1113430
 Analysis from: 7/9/2008 02:18:27
 File: S7090218.CHW

Last save: 7/9/2008 02:30:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37943
 SAMPLE: CS
 Vial number: 67
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.096	-19.725	Fluoride
2	4.06	130.544	807.620	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	14.631	216.605	Bromide
5	6.74	3.632	15.299	Nitrate
6	9.38	290.937	2337.669	Sulfate
6	12.00	439.840	3396.918	

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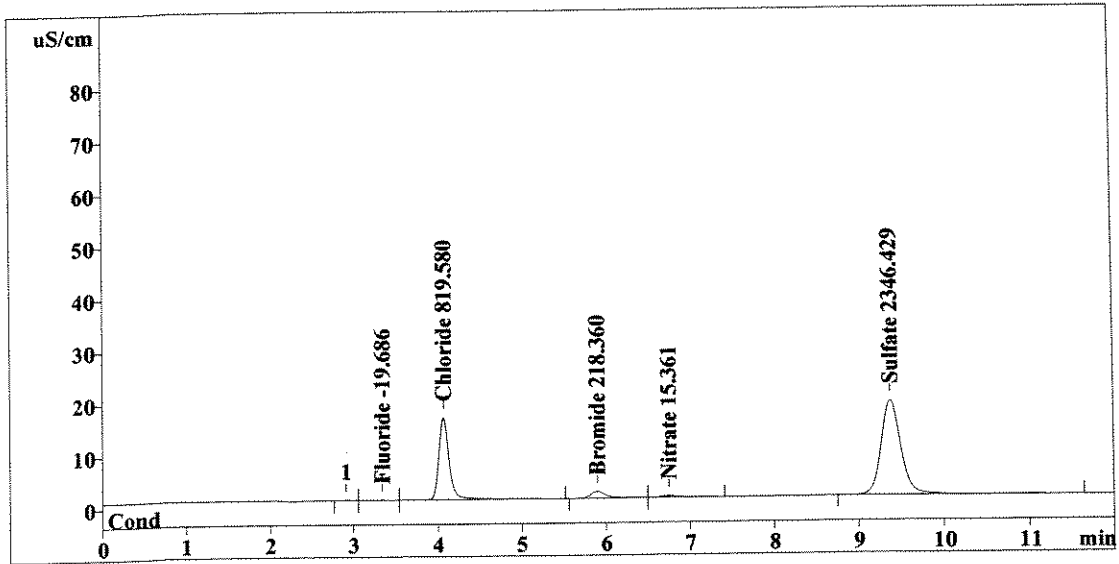
Method 300.0/9056

Report date: 7/9/2008 02:44:30
 Printed by: User
 Ident: 1113430 DUP
 Analysis from: 7/9/2008 02:32:32
 File: S7090232.CHW

Last save: 7/9/2008 02:44:30

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37944
 SAMPLE: CS
 Vial number: 68
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.107	-19.686	Fluoride
2	4.06	132.499 <i>OK</i>	819.580	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	14.755	218.360	Bromide
5	6.74	3.658	15.361	Nitrate
6	9.38	292.023 <i>OK</i>	2346.429	Sulfate
<hr/>				
6	12.00	443.043	3419.416	

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 Columbia Analytical Services
 Rochester, NY 14609

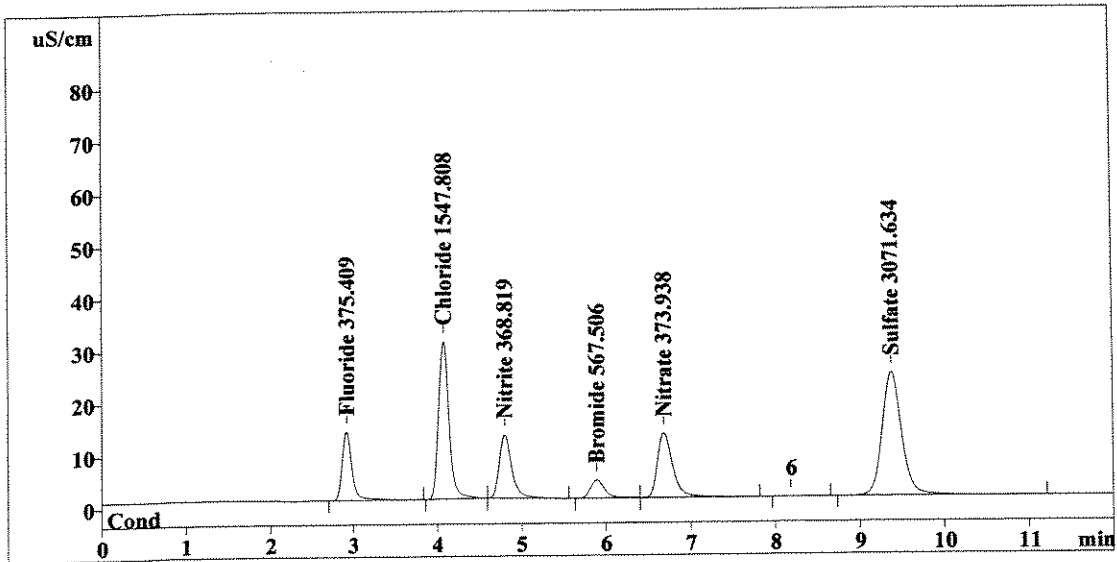
Method 300.0/9056

Report date: 7/9/2008 02:58:37
 Printed by: User
 Ident: 1113430 SPK
 Analysis from: 7/9/2008 02:46:38
 File: S7090246.CHW

Last save: 7/9/2008 02:58:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37945
 SAMPLE: CS
 Vial number: 69
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	107.656	375.409	Fluoride
2	4.06	251.582	1547.808	Chloride
3	4.79	126.004	368.819	Nitrite
4	5.89	39.433	567.506	Bromide
5	6.68	152.758	373.938	Nitrate
6	9.38	381.947	3071.634	Sulfate
<hr/>				
6	12.00	1059.380	6305.114	

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 METROHM LTD

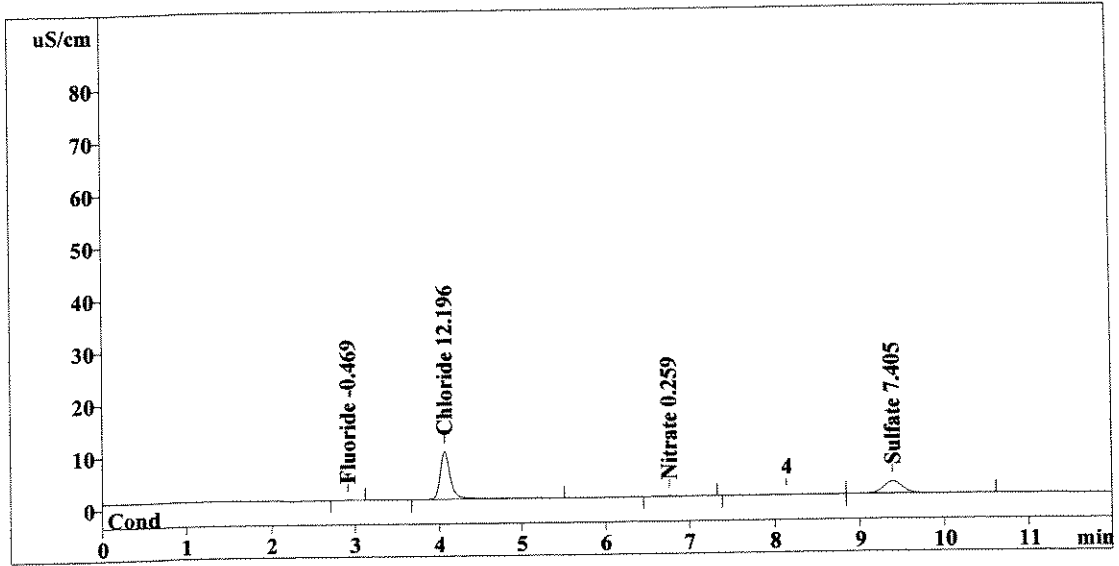
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/9/2008 03:12:43
 Printed by: User
 Ident: 1112968
 Analysis from: 7/9/2008 03:00:44
 File: S7090300.CHW

Method 300.0/9056

Last save: 7/9/2008 03:12:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37946
 SAMPLE: CS
 Vial number: 70
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.358	-0.469	Fluoride
2	4.06	78.254	12.196	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.76	1.580	0.259	Nitrate
6	9.39	37.798	7.405	Sulfate
<hr/>				
6	12.00	117.989	20.329	

OK
OK
7/9/08

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Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

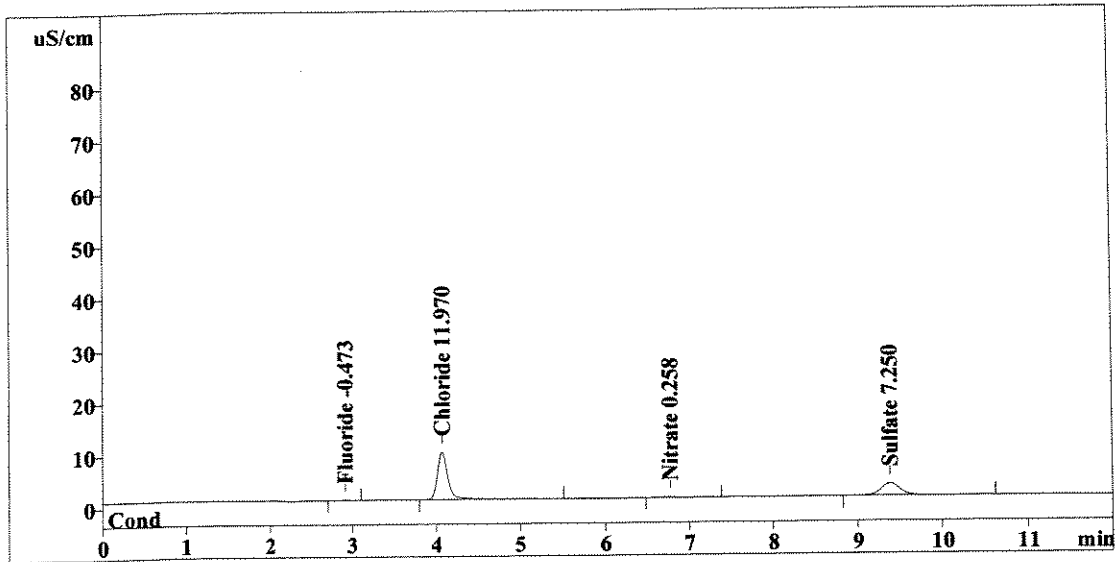
Method 300.0/9056

Report date: 7/9/2008 03:26:49
 Printed by: User
 Ident: 1112968 DUP
 Analysis from: 7/9/2008 03:14:50
 File: S7090314.CHW

Last save: 7/9/2008 03:26:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37947
 SAMPLE: CS
 Vial number: 71
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.316	-0.473	Fluoride
2	4.06	76.771	11.970	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.77	1.570	0.258	Nitrate
6	9.39	37.030	7.250	Sulfate
<hr/>				
6	12.00	115.687	19.951	

OK
OK
07/9/08

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Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

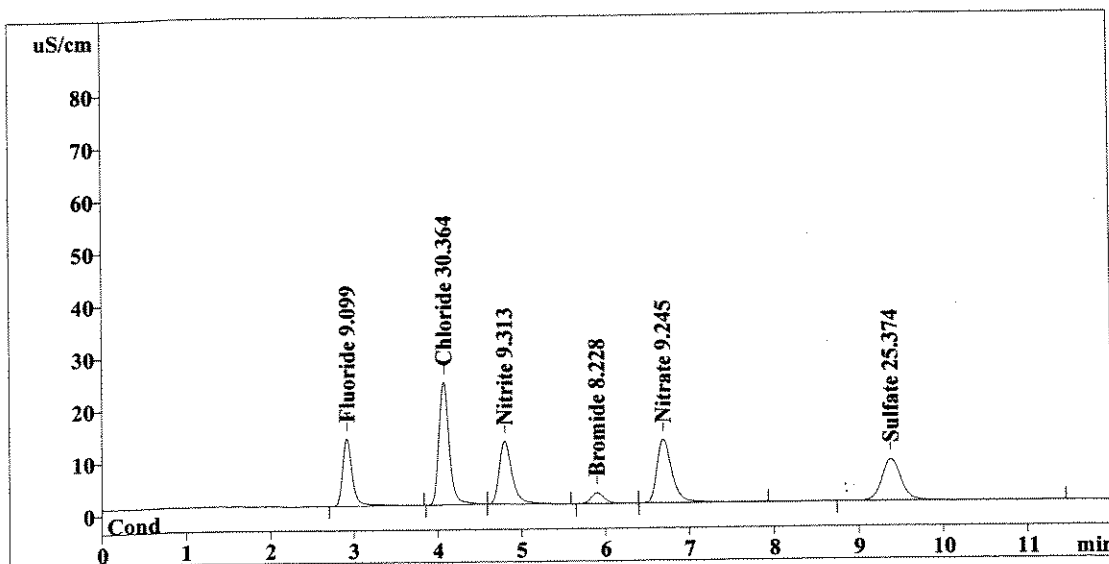
Method 300.0/9056

Report date: 7/9/2008 03:40:55
 Printed by: User
 Ident: 1112968 SPK
 Analysis from: 7/9/2008 03:28:56
 File: S7090328.CHW

Last save: 7/9/2008 03:40:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37948
 SAMPLE: CS
 Vial number: 72
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	104.535	9.099	Fluoride
2	4.06	197.087	30.364	Chloride
3	4.80	127.262	9.313	Nitrite
4	5.90	22.585	8.228	Bromide
5	6.69	151.034	9.245	Nitrate
6	9.38	126.921	25.374	Sulfate
<hr/>				
6	12.00	729.424	91.622	

CS 7/9/08

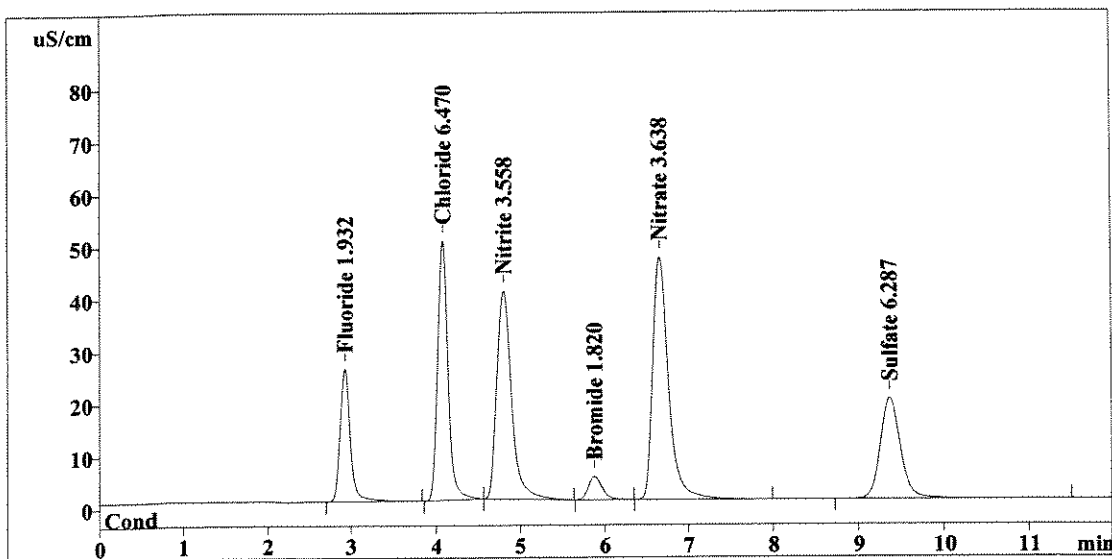
This report has been created by IC Net
 METROHM LTD

Report date: 7/9/2008 03:55:00
 Printed by: User
 Ident: CCV
 Analysis from: 7/9/2008 03:43:02
 File: S7090343.CHW

Last save: 7/9/2008 03:55:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37949
 SAMPLE:
 Vial number: 73
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	215.823	1.932	Fluoride
2	4.07	421.696	6.470	Chloride
3	4.79	484.174	3.558	Nitrite
4	5.88	50.769	1.820	Bromide
5	6.65	602.403	3.638	Nitrate
6	9.37	312.909	6.287	Sulfate
<hr/>				
6	12.00	2087.773	23.706	

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 5/7/08

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 METROHM LTD

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

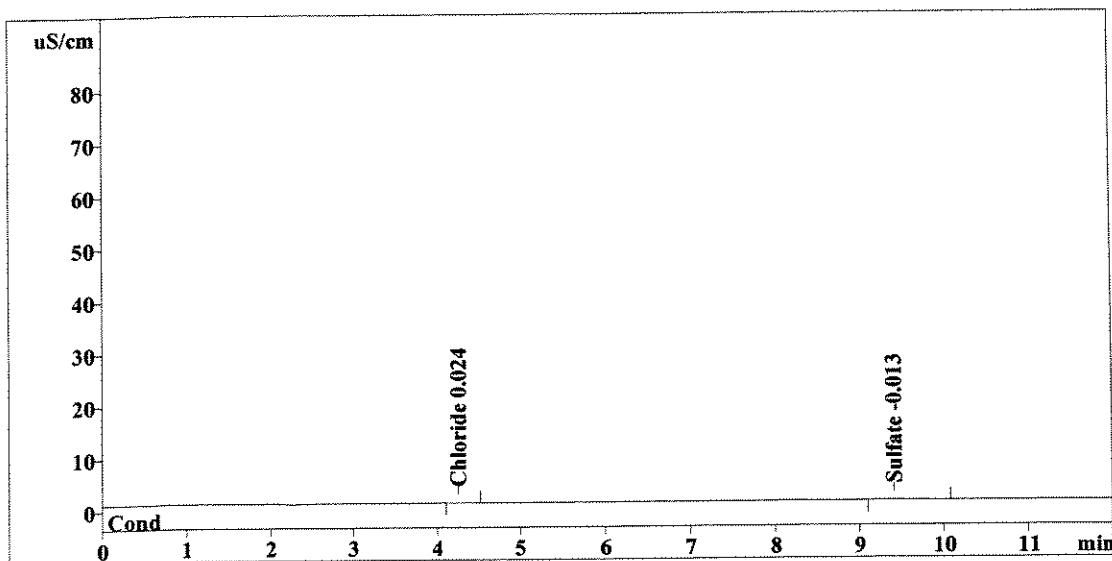
Method 300.0/9056

Report date: 7/9/2008 04:09:06
 Printed by: User
 Ident: CCB
 Analysis from: 7/9/2008 03:57:08
 File: S7090357.CHW

Last save: 7/9/2008 04:09:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37950
 SAMPLE:
 Vial number: 74
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.25	0.064	0.024	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.41	0.420	-0.013	Sulfate
<hr/>				
6	12.00	0.484	0.037	

Handwritten notes: A checkmark is next to the first row. A downward arrow points from the second row to the sixth row. The date '7/9/08' is written at the bottom right of the table.

This report has been created by IC Net
 METROHM LTD

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861
 Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 06/10/2008 Loop size: 50 uL Loop

Analyst: C. Woods Analysis Date: 7-8-08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A	Working Calibration Stds	06/10/08	WC72050H
LCS / MS Intermediate	06/10/08	WC72050A	Working LCS/MS Standard	07/03/08	WC72093E
ICV Intermediate	05/05/08	WC72134B	Working ICV Standard	DAILY	WC72134H
CCV Intermediate	05/05/08	WC72134B	Working CCV Standard	DAILY	WC72134H

Comments:

CALIBRATION EXPIRES ON 12/10/2008

CHORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC120030A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC120093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC120093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC120093C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC120093D
NO3		50			1.0	OMW	7/3/08	E	7/6/08	WC120093E
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Run #: 163746
 Analyte: CHLORIDE 9056
 Printed: 07/14/08 12:47

CHLORIDE BY ION CHROMATOGRAPHY

44538 44799
 44650 44770
 44797 44853
 44746 44866

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	1111265	WATER	3090	1000.0	0.200			07/10/08	RUN	ASPB
CHK5		1116612	WATER	6.49	1.0	0.200	99.8		07/09/08		
BLK4		1116613	WATER	0.200	1.0	0.200			07/09/08		
SPKB		1116614	WATER	1.91	1.0	0.200	95.6		07/09/08		
ESMP	R2844538	1111267	WATER	1700	1000.0	0.200			07/10/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	5260	1000.0	0.200			07/10/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	4450	1000.0	0.200			07/10/08	RUN	ASPB
LDUP		1116615	WATER	4380	1000.0	0.200		1.46	07/10/08		
SPK1		1116616	WATER	6180	1000.0	0.200	86.7		07/10/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	4050	1000.0	0.200			07/10/08		
LDUP		1116617	WATER	4060	1000.0	0.200		0.34	07/10/08		
SPK1		1116618	WATER	5830	1000.0	0.200	88.8		07/10/08		
ESMP	R2844650	1112489	WATER	4050	1000.0	0.200			07/10/08	RUN	ASPB
ESMP	R2844650	1112809	WATER	4130	1000.0	0.200			07/10/08		ASPB
ESMP	R2844650	1112810	WATER	3870	1000.0	0.200			07/10/08		ASPB
ESMP	R2844650	1112811	WATER	5140	1000.0	0.200			07/10/08		ASPB
BLK5		1116619	SOIL/SEDIME	0.540	1.0	20.0			07/10/08		
ESMP	R2844797	1114380	SOIL/SEDIME	870	20.0	20.0			07/10/08	QC	ASPB
LDUP		1116620	SOIL/SEDIME	888	20.0	20.0		2.08	07/10/08		
SPK1		1116621	SOIL/SEDIME	1080	20.0	20.0	517.1		07/10/08		
ESMP	R2844797	1114376	SOIL/SEDIME	49600	1000.0	20.0			07/10/2008		ASPB

Records printed: 21

Reviewed & Approved

By: S. Seto

Date: 7/14/08

07-09-08

Data Manually Entered

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution	LCS	1	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1113050A	2	1.0	200.0	1.0	100.0	0	1	1	1 BTU	
Columbia-no dilution	1115927	3	1.0	10.0	1.0	100.0	0	1	1	1 CNS	Analyst: C. Weiss
Columbia-no dilution	1115928	4	1.0	10.0	1.0	100.0	0	1	1	1 CNS	Pipets: Name
Columbia-no dilution	1115929	5	1.0	10.0	1.0	100.0	0	1	1	1 CNS	WOLLETS
Columbia-no dilution	1115930	6	1.0	10.0	1.0	100.0	0	1	1	1 CNS	Lucy
Columbia-no dilution	1115931	7	1.0	10.0	1.0	100.0	0	1	1	1 CNS	UPDATED
Columbia-no dilution	1115932	8	1.0	10.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115782	9	1.0	10.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115782	10	1.0	40.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115782	11	1.0	100.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	CCV	12	1.0	1.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	CCB	13	1.0	1.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115782	14	1.0	400.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115783	15	1.0	10.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115783	16	1.0	40.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115783	17	1.0	100.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115783	18	1.0	400.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115784	19	1.0	10.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115784	20	1.0	40.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115784	21	1.0	100.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115785	22	1.0	400.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	CCV	23	1.0	10.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	CCB	24	1.0	1.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	CCB	25	1.0	1.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	LCS	26	1.0	1.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115785	27	1.0	40.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115785	28	1.0	100.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1115785	29	1.0	400.0	1.0	100.0	0	1	1	1 CNS	
Columbia-no dilution	1114371	30	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	1114372	31	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	1114373	32	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	1114691	33	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	1114692	34	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	1114693	35	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	1114694	36	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	CCV	37	1.0	1.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	CCB	38	1.0	1.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	CCB	39	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	1114696	40	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	1114696 DUP	41	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	1114696 SPK	42	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	1114698	43	1.0	10.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	1114380	44	1.0	1.0	1.0	100.0	0	1	1	1 MN	
Columbia-no dilution	1114380	45	1.0	1.0	1.0	100.0	0	1	1	1 MN	
Columbia-no dilution	1114380 DUP	46	1.0	1.0	1.0	100.0	0	1	1	1 MN	
Columbia-no dilution	1114380 SPK	47	1.0	20.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1114380	48	1.0	20.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1114380 DUP	49	1.0	20.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1114380 SPK	50	1.0	1000.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1114380	51	1.0	1000.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1114380 DUP	52	1.0	1000.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1114380 SPK	53	1.0	1.0	1.0	100.0	0	1	1	1 CS	
Columbia-no dilution	IS/PL METHOD BLA	54	1.0	10.0	1.0	100.0	0	1	1	1 C	

02:40:45

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution	1110349	55	1.0	100.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1105436	56	1.0	400.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1114080	57	1.0	100.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	METHOD BLANK 71	58	1.0	1.0	1.0	100.0	0	1	1	1 CVNS	
Columbia-no dilution	CCV	59	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	CCB	60	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	LCS	61	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	LNAC0701	113	1.0	40.0	1.0	100.0	0	1	1	1 BTU	
Columbia-no dilution	1111733A	114	1.0	40.0	1.0	100.0	0	1	1	1 BTU	
Columbia-no dilution	CCV	115	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	CCB	116	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	1110602A	69	1.0	200.0	1.0	100.0	0	1	1	1 %CL	
Columbia-no dilution	1114366	70	1.0	20.0	1.0	100.0	0	1	1	1 EXTRACTION - S	
Columbia-no dilution	1111267	73	1.0	1000.0	1.0	100.0	0	1	1	1 BTU	
Columbia-no dilution	1111765	74	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112486	75	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112486 DUP	76	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112486 SPK	77	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	CCV	78	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	CCB	79	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	1112487	80	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112487 DUP	81	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112487 SPK	82	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	BLK0710	119	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	1112489	83	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	BLK0710	121	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	1112809	84	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112810	85	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112811	86	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1113136	87	1.0	400.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1113137	88	1.0	100.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1113137	89	1.0	400.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1113137	90	1.0	100.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1113137 DUP	91	1.0	100.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1113137 SPK	92	1.0	100.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1115469	93	1.0	1000.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	CCV	94	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	CCB	95	1.0	1.0	1.0	100.0	0	1	1	0	
Columbia-no dilution	LCS	96	1.0	1.0	1.0	100.0	0	1	1	0	
Columbia-no dilution	1115470	97	1.0	400.0	1.0	100.0	0	1	1	0 S	
Columbia-no dilution	1115471	98	1.0	100.0	1.0	100.0	0	1	1	0 S	
Columbia-no dilution	1115472	99	1.0	1000.0	1.0	100.0	0	1	1	0 S	
Columbia-no dilution	1115473	100	1.0	1000.0	1.0	100.0	0	1	1	0 S	
Columbia-no dilution	1115474	101	1.0	200.0	1.0	100.0	0	1	1	0 S	
Columbia-no dilution	1115475	102	1.0	1000.0	1.0	100.0	0	1	1	0 S	
Columbia-no dilution	1115476	103	1.0	1000.0	1.0	100.0	0	1	1	0 S	
Columbia-no dilution	1115476 DUP	104	1.0	1000.0	1.0	100.0	0	1	1	0 S	
Columbia-no dilution	1115476 SPK	105	1.0	1000.0	1.0	100.0	0	1	1	0 S	
Columbia-no dilution	1115477	106	1.0	1000.0	1.0	100.0	0	1	1	0 S	

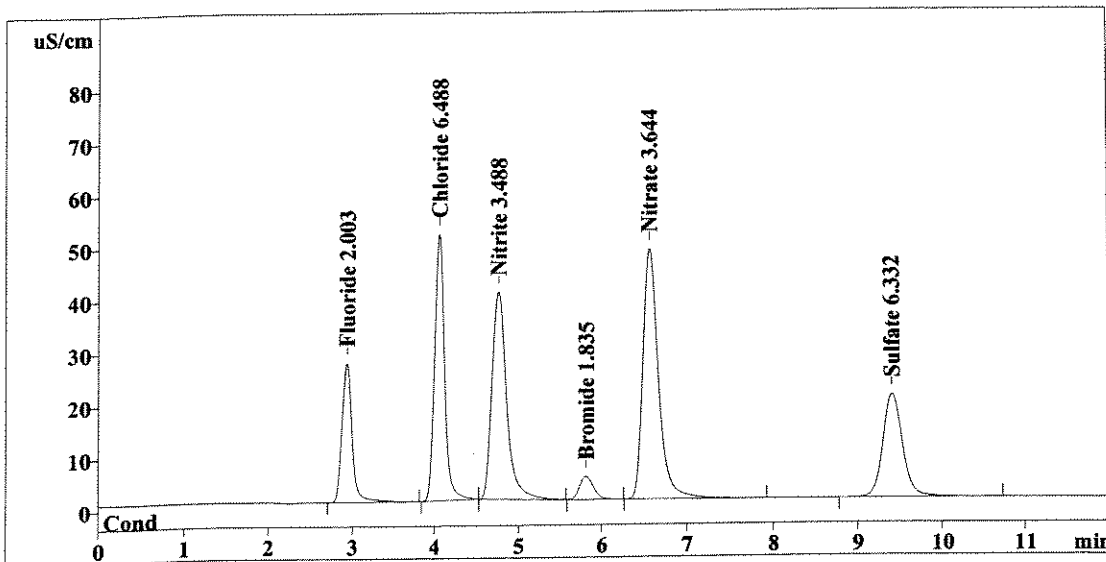
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 14:54:25
 Printed by: User
 Ident: CCV
 Analysis from: 7/9/2008 17:20:56
 File: s7091720.chw

Method 300.0/9056

Last save: 7/9/2008 17:32:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38007
 SAMPLE:
 Vial number: 131
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	223.538	2.003	Fluoride
2	4.05	422.845	6.488	Chloride
3	4.75	474.639	3.488	Nitrite
4	5.81	51.191	1.835	Bromide
5	6.57	603.402	3.644	Nitrate
6	9.41	315.141	6.332	Sulfate
<hr/>				
6	12.00	2090.756	23.790	

Handwritten notes: 'OK' with a downward arrow pointing to the Bromide row, and a signature 'CMT/7/10/08' next to the total row.

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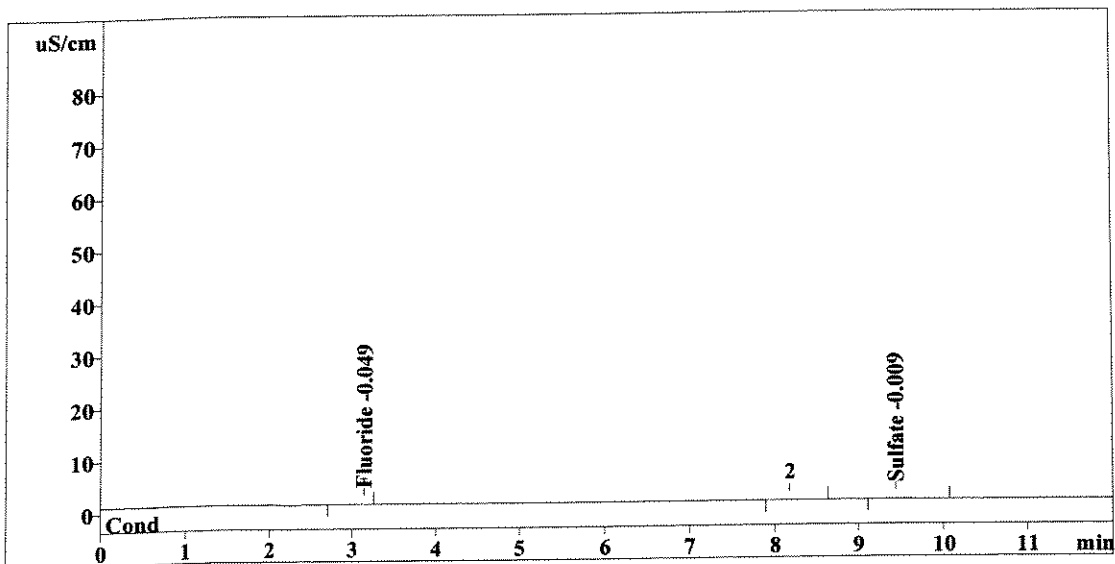
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 14:54:28
 Printed by: User
 Ident: CCB
 Analysis from: 7/9/2008 17:35:02
 File: s7091735.chw

Method 300.0/9056

Last save: 7/9/2008 17:47:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38008
 SAMPLE:
 Vial number: 132
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.13	0.102	-0.049	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.45	0.636	-0.009	Sulfate
<hr/>				
6	12.00	0.738	0.058	

Handwritten notes: An arrow points from the 'Fluoride' row to the 'Sulfate' row. A signature and date '7/10/08' are written below the table.

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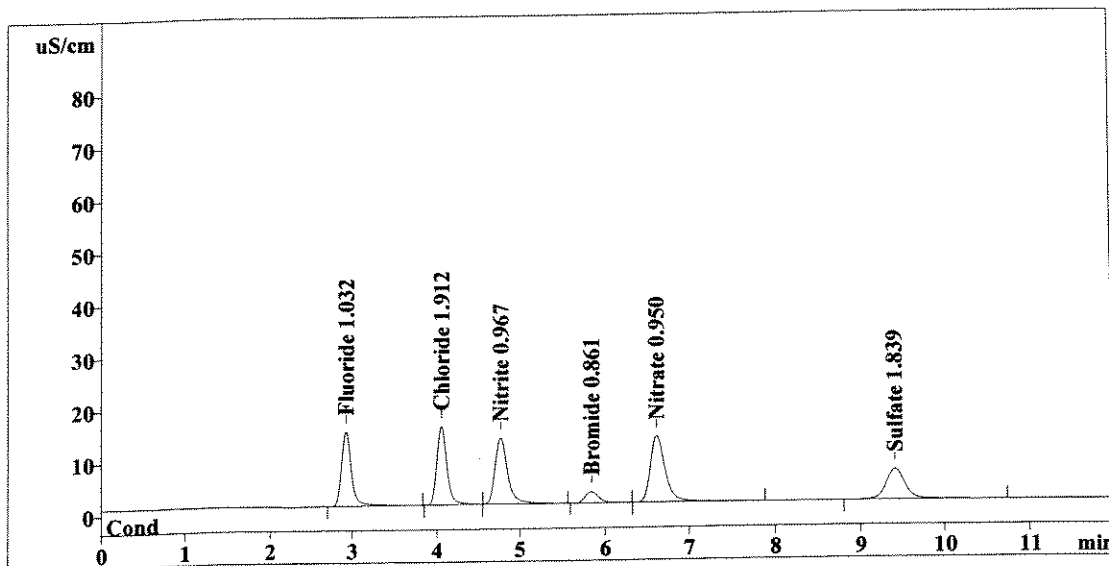
Method 300.0/9056

Report date: 7/10/2008 14:54:32
 Printed by: User
 Ident: LCS
 Analysis from: 7/9/2008 17:49:08
 File: s7091749.chw

Last save: 7/9/2008 18:01:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38009
 SAMPLE:
 Vial number: 133
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	117.835	1.032	Fluoride
2	4.05	123.553	1.912	Chloride
3	4.76	132.146	0.967	Nitrite
4	5.84	23.668	0.861	Bromide
5	6.61	155.196	0.950	Nitrate
6	9.42	92.260	1.839	Sulfate
6	12.00	644.657	7.561	

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Handwritten signature and date: 7/10/08

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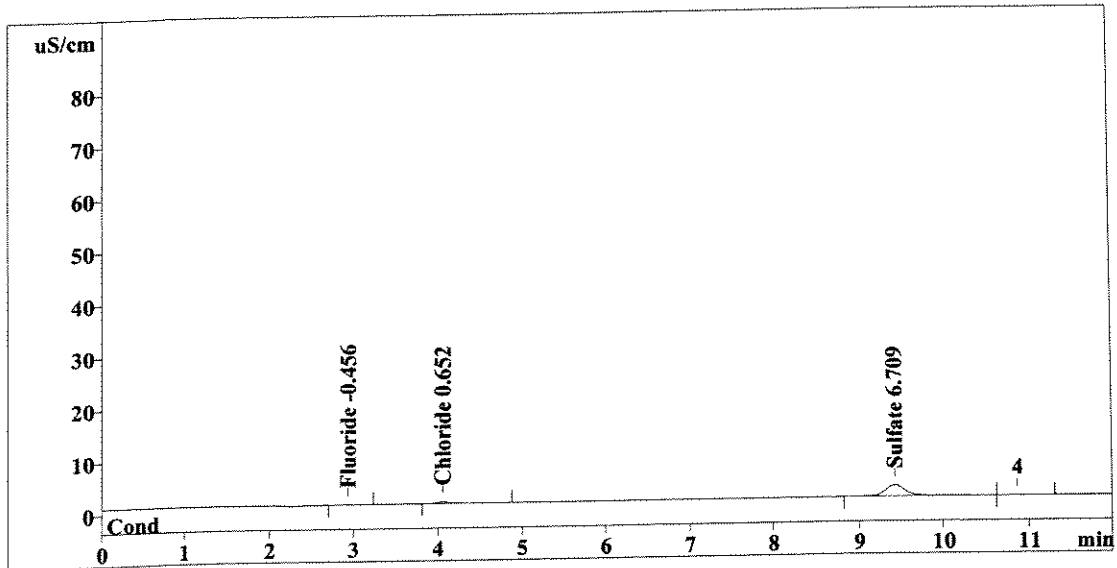
Method 300.0/9056

Report date: 7/9/2008 18:15:12
 Printed by: User
 Ident: 1114368
 Analysis from: 7/9/2008 18:03:14
 File: S7091803.CHW

Last save: 7/9/2008 18:15:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38010
 SAMPLE: CS
 Vial number: 134
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.497	-0.456	Fluoride
2	4.05	2.745	0.652	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.43	34.345	6.709	Sulfate
6	12.00	37.586	7.817	

Handwritten notes: 'OK' next to rows 1 and 2, and a signature 'C. M. 7/10/08' next to row 6.

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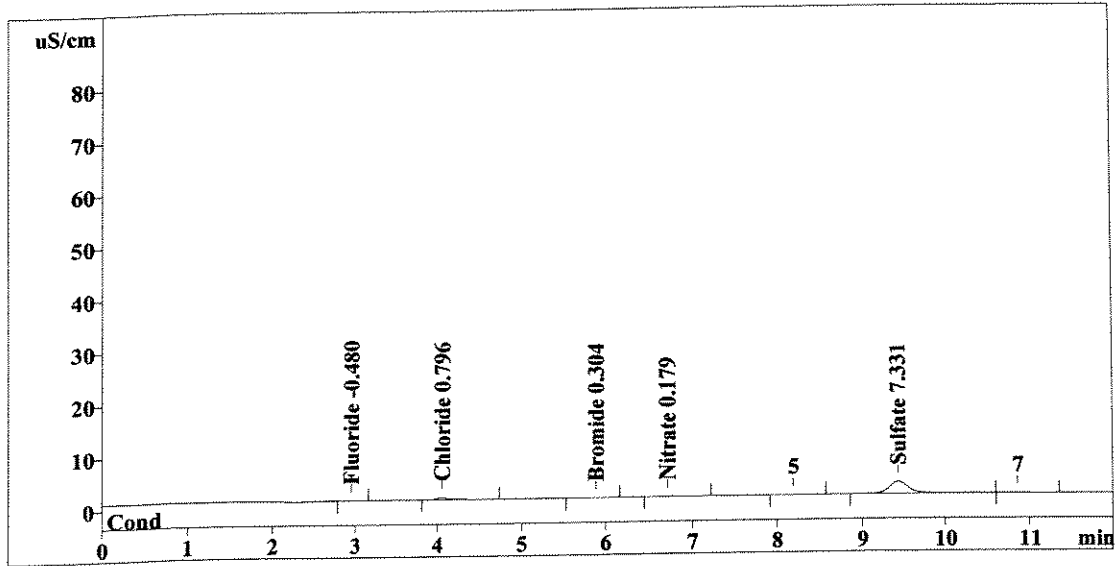
Method 300.0/9056

Report date: 7/9/2008 18:29:18
 Printed by: User
 Ident: 1114369
 Analysis from: 7/9/2008 18:17:20
 File: S7091817.CHW

Last save: 7/9/2008 18:29:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38011
 SAMPLE: CS
 Vial number: 135
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	0.235	-0.480	Fluoride
2	4.06	3.686	0.796	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	0.181	0.304	Bromide
5	6.71	0.252	0.179	Nitrate
6	9.43	37.433	7.331	Sulfate
6	12.00	41.787	9.091	

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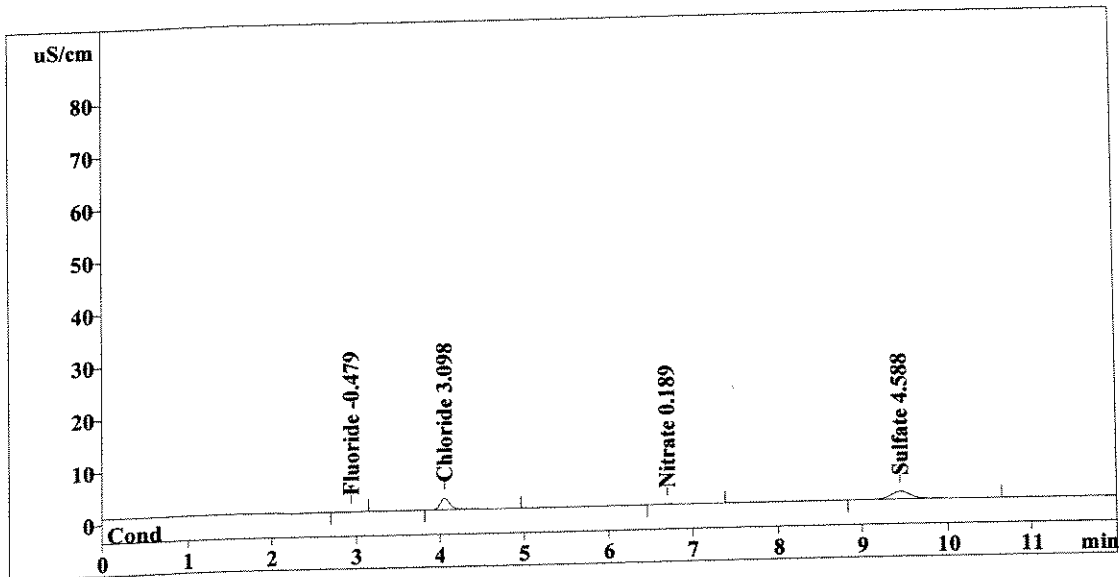
Method 300.0/9056

Report date: 7/9/2008 18:43:25
 Printed by: User
 Ident: 1114370
 Analysis from: 7/9/2008 18:31:27
 File: S7091831.CHW

Last save: 7/9/2008 18:43:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38012
 SAMPLE: CS
 Vial number: 136
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.249	-0.479	Fluoride
2	4.06	18.742	3.098	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.71	0.409	0.189	Nitrate
6	9.45	23.828	4.588	Sulfate
<hr/>				
6	12.00	43.229	8.354	

Handwritten notes: 'OK' next to Chloride and Nitrate rows; 'CJ/10/08' written across the bottom row.

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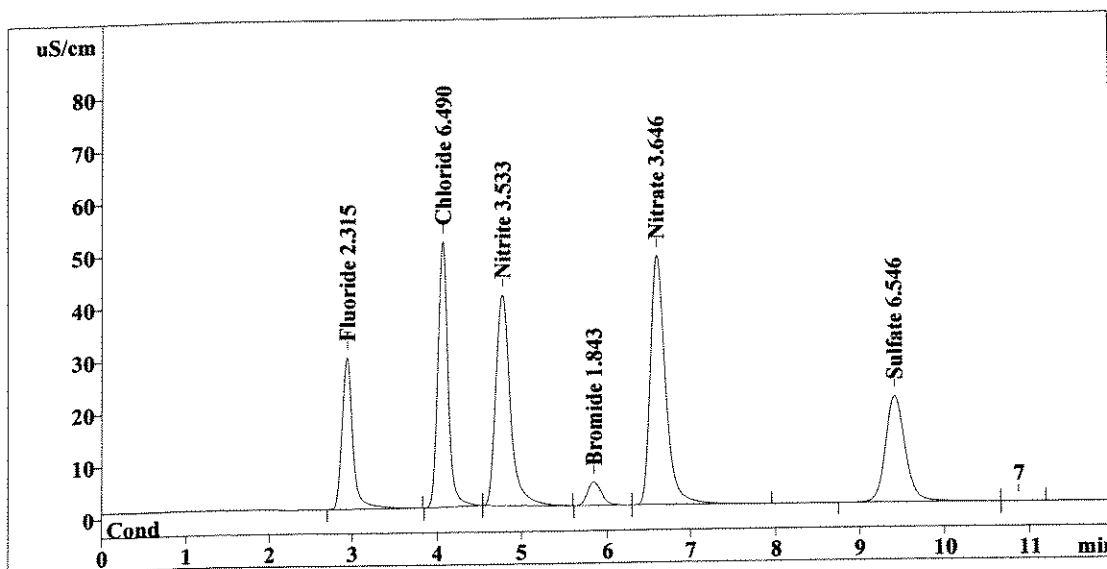
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 11:26:54
 Printed by: User
 Ident: CCV
 Analysis from: 7/9/2008 18:46:19
 File: s7091846.chw

Method 300.0/9056

Last save: 7/9/2008 18:58:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38013
 SAMPLE:
 Vial number: 144
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	257.497	2.315	Fluoride
2	4.05	422.968	6.490	Chloride
3	4.77	480.702	3.533	Nitrite
4	5.84	51.420	1.843	Bromide
5	6.59	603.667	3.646	Nitrate
6	9.43	325.770	6.546	Sulfate
<hr/>				
6	12.00	2142.024	24.372	

OUT HIGH
α
↓
CCV
7/10/08

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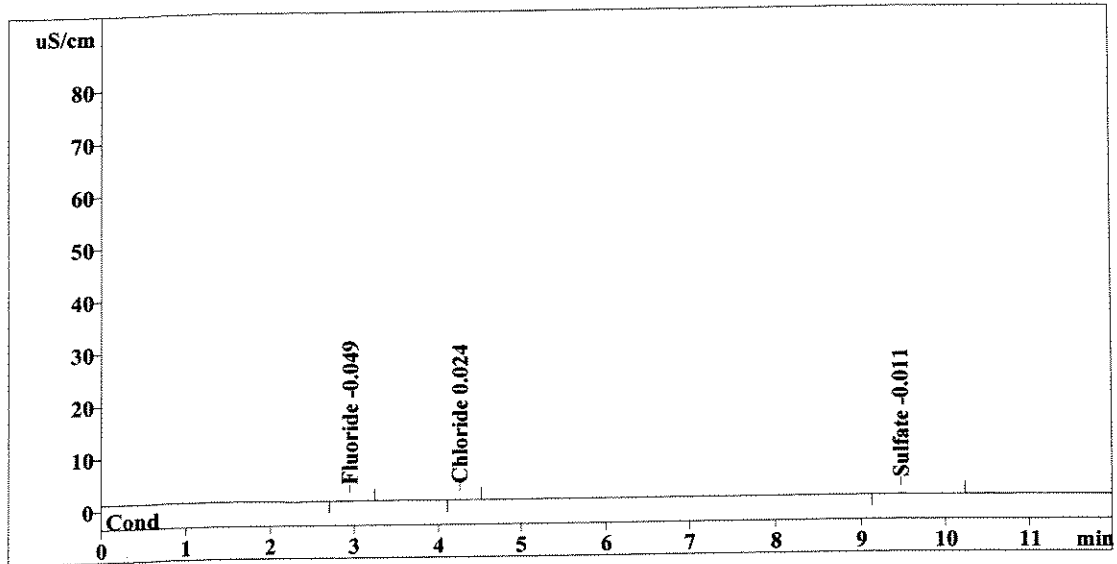
Method 300.0/9056

Report date: 7/9/2008 19:12:23
 Printed by: User
 Ident: CCB
 Analysis from: 7/9/2008 19:00:25
 File: S7091900.CHW

Last save: 7/9/2008 19:12:24

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38014
 SAMPLE:
 Vial number: 145
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	0.115	-0.049	Fluoride
2	4.25	0.057	0.024	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	0.546	-0.011	Sulfate
<hr/>				
6	12.00	0.718	0.084	

Handwritten notes: A vertical arrow points from the 'Area' column to the 'Conc.' column. A signature and date '7/10/08' are written below the table.

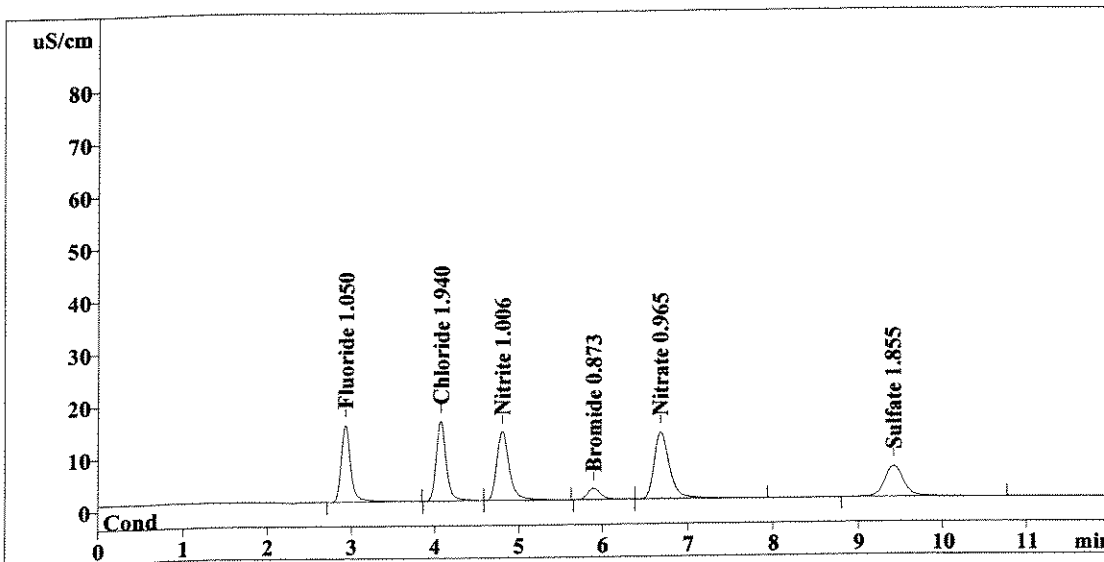
This report has been created by IC Net
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Report date: 7/9/2008 20:00:58
 Printed by: User
 Ident: LCS
 Analysis from: 7/9/2008 19:49:00
 File: S7091949.CHW

Last save: 7/9/2008 20:00:59

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38015
 SAMPLE:
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	119.744	1.050	Fluoride
2	4.07	125.402	1.940	Chloride
3	4.79	137.380	1.006	Nitrite
4	5.90	23.998	0.873	Bromide
5	6.68	157.780	0.965	Nitrate
6	9.42	93.056	1.855	Sulfate
6	12.00	657.359	7.688	

OK
 ↓
OUT LOW
 ↓
OK
 ↓
7/10/08

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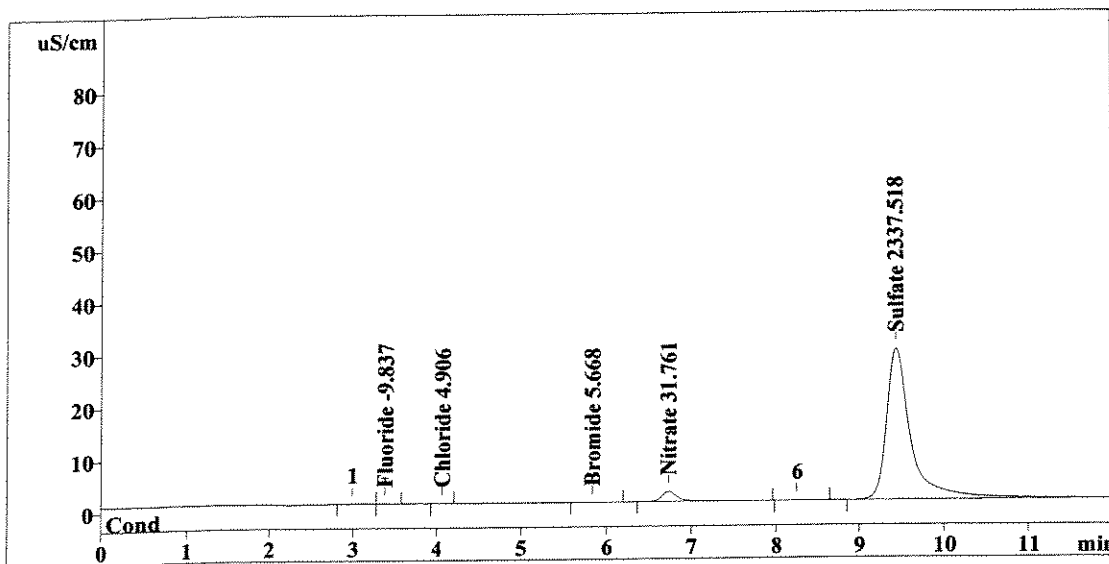
Method 300.0/9056

Report date: 7/9/2008 20:15:04
 Printed by: User
 Ident: 1113050A
 Analysis from: 7/9/2008 20:03:06
 File: S7092003.CHW

Last save: 7/9/2008 20:15:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38016
 SAMPLE: BTU
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 200.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.110	-9.837	Fluoride
2	4.06	0.083	4.906	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.83	0.123	5.668	Bromide
5	6.73	23.684	31.761	Nitrate
6	9.44	580.766	2337.518	Sulfate
6	12.00	604.766	2389.690	

apt 1/400
7/9/08

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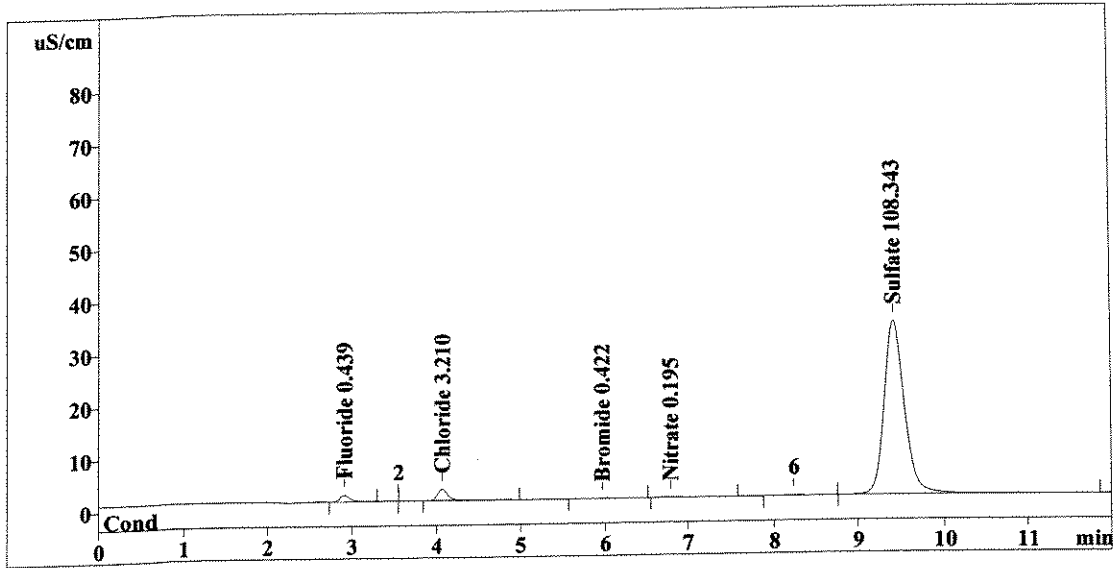
Method 300.0/9056

Report date: 7/9/2008 20:29:10
 Printed by: User
 Ident: 1115927
 Analysis from: 7/9/2008 20:17:12
 File: S7092017.CHW

Last save: 7/9/2008 20:29:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38017
 SAMPLE: CNS
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	10.244	0.439	Fluoride
2	4.06	19.474	3.210	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.515	0.422	Bromide
5	6.80	0.516	0.195	Nitrate
6	9.43	538.443	108.343	Sulfate
<hr/>				
6	12.00	569.190	112.609	

OK
OK
1/20
CM
7/9/08

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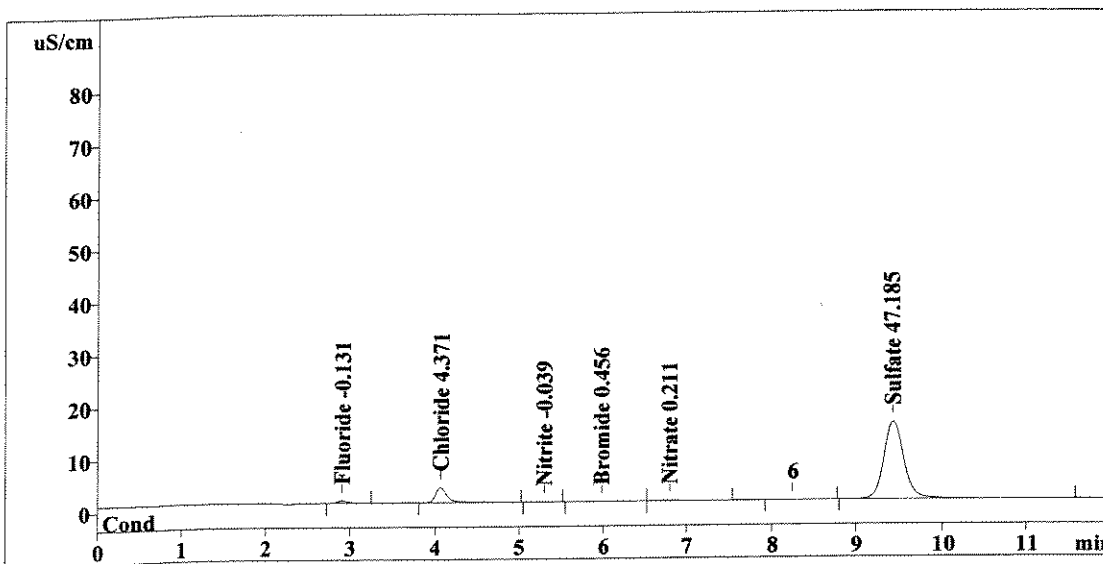
Method 300.0/9056

Report date: 7/9/2008 20:43:16
 Printed by: User
 Ident: 1115928
 Analysis from: 7/9/2008 20:31:18
 File: S7092031.CHW

Last save: 7/9/2008 20:43:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38018
 SAMPLE: CNS
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	4.040	-0.131	Fluoride
2	4.06	27.071	4.371	Chloride
3	5.30	0.200	-0.039	Nitrite
4	5.99	0.611	0.456	Bromide
5	6.80	0.775	0.211	Nitrate
6	9.44	235.105	47.185	Sulfate
6	12.00	267.802	52.393	

W
 7/10/08

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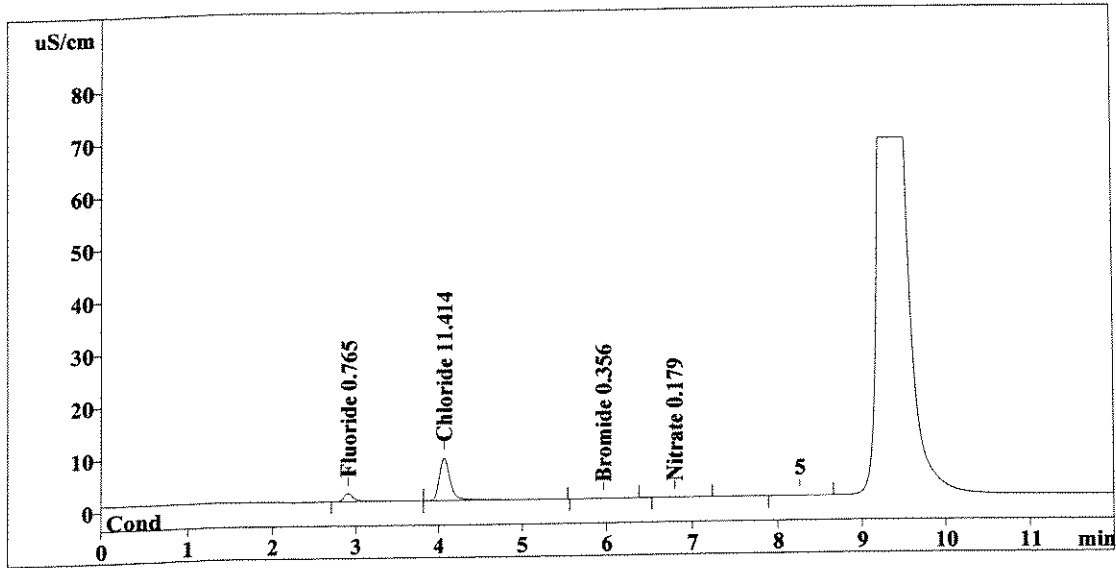
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/9/2008 20:57:22
 Printed by: User
 Ident: 1115929
 Analysis from: 7/9/2008 20:45:24
 File: S7092045.CHW

Method 300.0/9056

Last save: 7/9/2008 20:57:23

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38019
 SAMPLE: CNS
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	13.798	0.765	Fluoride
2	4.06	73.135	11.414	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	0.327	0.356	Bromide
5	6.80	0.250	0.179	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	87.509	12.714	

OK
OK
1/400
7/10/08

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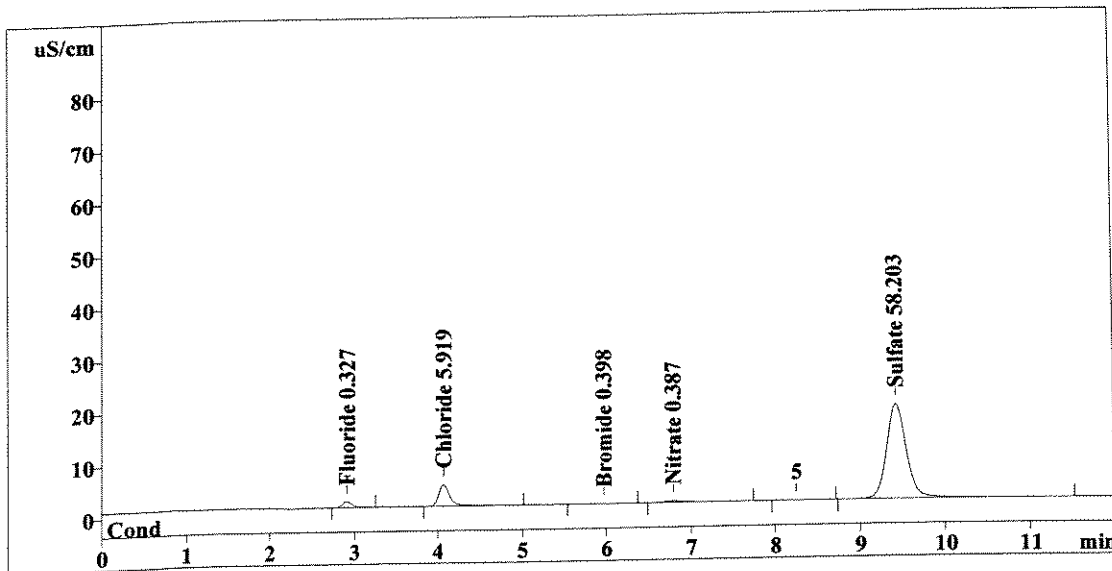
Method 300.0/9056

Report date: 7/9/2008 21:11:28
 Printed by: User
 Ident: 1115930
 Analysis from: 7/9/2008 20:59:29
 File: S7092059.CHW

Last save: 7/9/2008 21:11:29

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38020
 SAMPLE: CNS
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	9.026	0.327	Fluoride
2	4.07	37.197	5.919	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.448	0.398	Bromide
5	6.79	3.714	0.387	Nitrate
6	9.43	289.750	58.203	Sulfate
6	12.00	340.135	65.235	

Handwritten signature and date: 7/10/08

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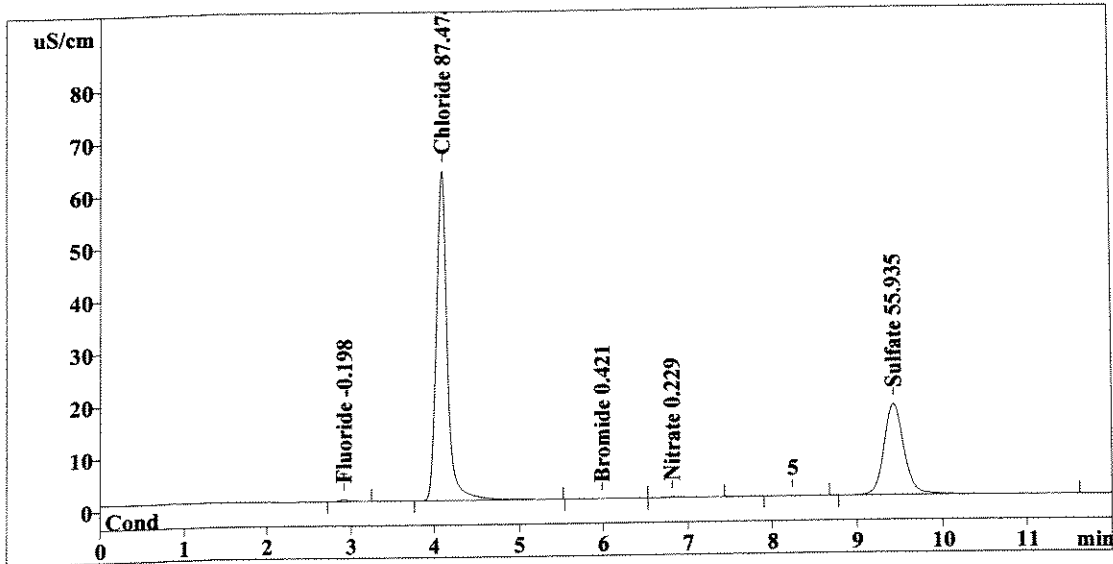
Method 300.0/9056

Report date: 7/9/2008 21:25:33
 Printed by: User
 Ident: 1115931
 Analysis from: 7/9/2008 21:13:35
 File: S7092113.CHW

Last save: 7/9/2008 21:25:35

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38021
 SAMPLE: CNS
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	3.307	-0.198	Fluoride
2	4.07	570.645	87.474	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.513	0.421	Bromide
5	6.81	1.084	0.229	Nitrate
6	9.43	278.506	55.935	Sulfate
6	12.00	854.055	144.259	

WJ
7/10/08

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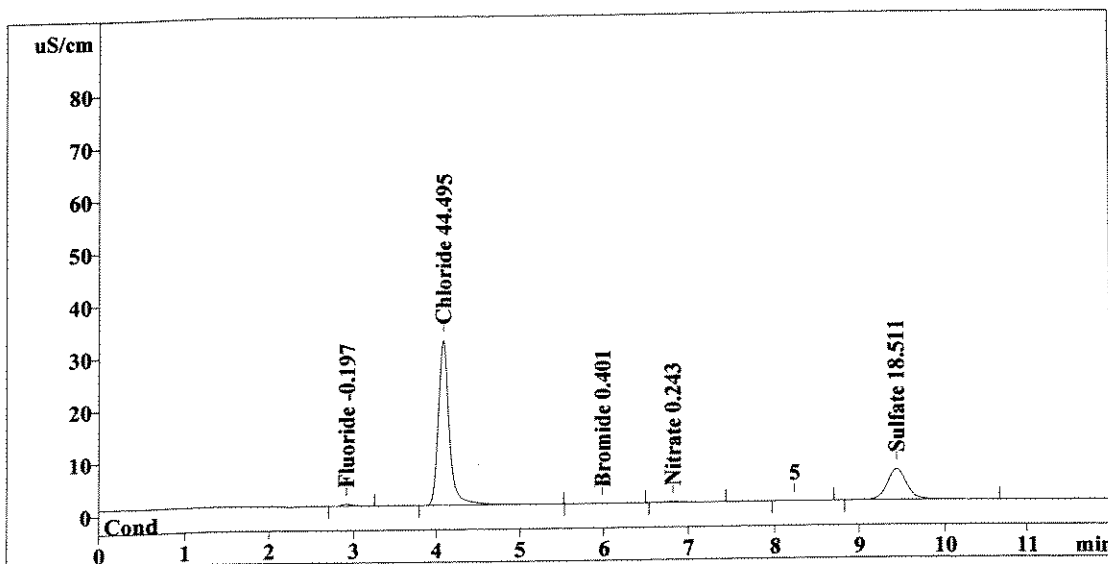
Method 300.0/9056

Report date: 7/9/2008 21:39:39
 Printed by: User
 Ident: 1115932
 Analysis from: 7/9/2008 21:27:41
 File: S7092127.CHW

Last save: 7/9/2008 21:39:41

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38022
 SAMPLE: CNS
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	3.317	-0.197	Fluoride
2	4.07	289.518	44.495	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	0.455	0.401	Bromide
5	6.82	1.310	0.243	Nitrate
6	9.44	92.885	18.511	Sulfate
6	12.00	387.485	63.847	

Handwritten signature and date: 7/10/08

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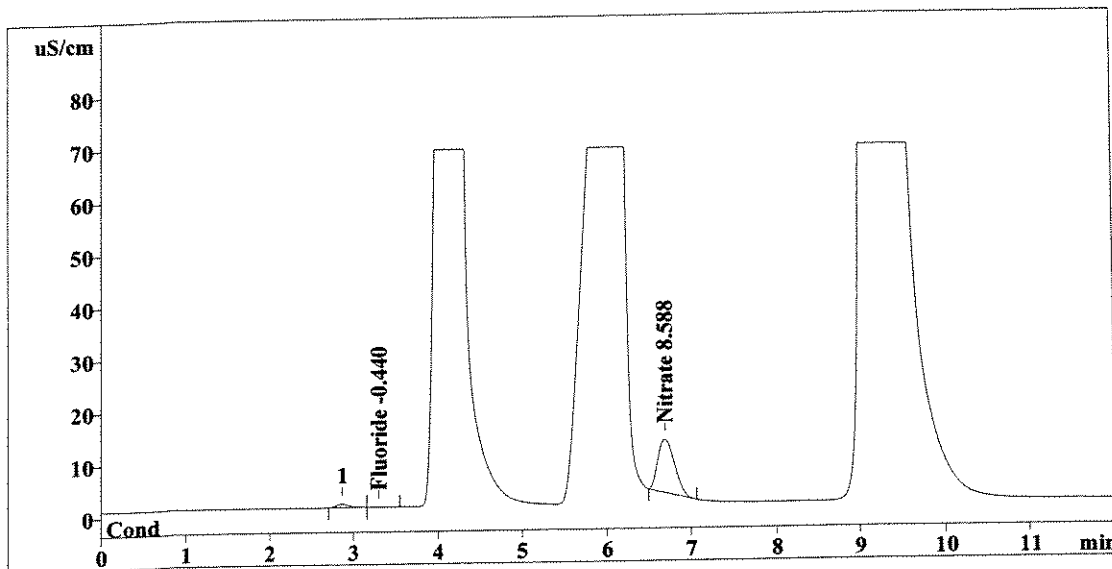
Method 300.0/9056

Report date: 7/9/2008 21:53:45
 Printed by: User
 Ident: 1115782
 Analysis from: 7/9/2008 21:41:47
 File: S7092141.CHW

Last save: 7/9/2008 21:53:47

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38023
 SAMPLE: CNNS
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.30	0.679	-0.440	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.69	140.111	8.588	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	140.790	9.028	

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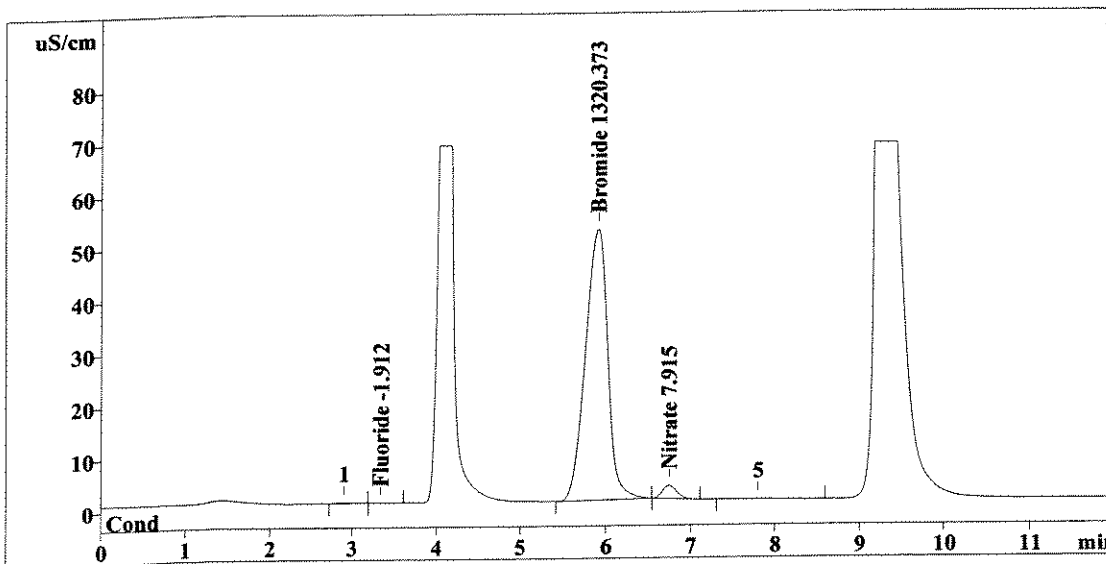
Method 300.0/9056

Report date: 7/9/2008 22:07:51
 Printed by: User
 Ident: 1115782
 Analysis from: 7/9/2008 21:55:53
 File: S7092155.CHW

Last save: 7/9/2008 22:07:53

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38024
 SAMPLE: CNNS
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.33	0.260	-1.912	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.92	932.560	1320.373	Bromide
5	6.75	30.181	7.915	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	963.001	1330.200	

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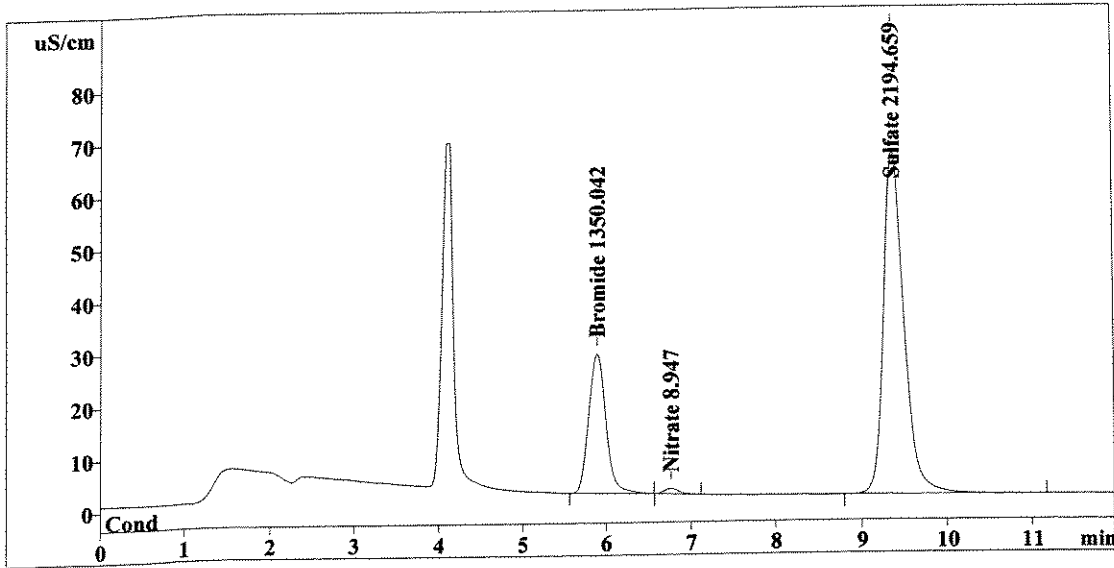
Method 300.0/9056

Report date: 7/9/2008 22:21:57
 Printed by: User
 Ident: 1115782
 Analysis from: 7/9/2008 22:09:58
 File: S7092209.CHW

Last save: 7/9/2008 22:21:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38025
 SAMPLE: CNNS
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	381.005	1350.042	Bromide
5	6.76	12.151	8.947	Nitrate
6	9.38	1089.606	2194.659	Sulfate
<hr/>				
6	12.00	1482.762	3553.647	

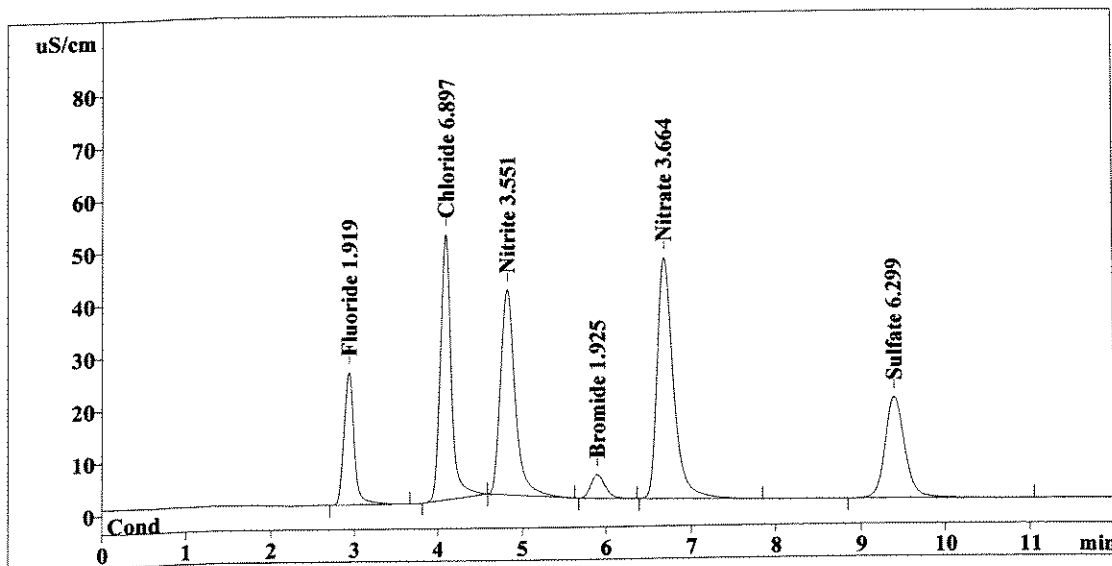
This report has been created by IC Net
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Report date: 7/9/2008 22:36:02
 Printed by: User
 Ident: CCV
 Analysis from: 7/9/2008 22:24:04
 File: S7092224.CHW

Last save: 7/9/2008 22:36:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38026
 SAMPLE:
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	214.453	1.919	Fluoride
2	4.08	449.630	6.897	Chloride
3	4.81	483.133	3.551	Nitrite
4	5.90	53.740	1.925	Bromide
5	6.68	606.668	3.664	Nitrate
6	9.40	313.506	6.299	Sulfate
<hr/>				
6	12.00	2121.131	24.255	

OK
↓

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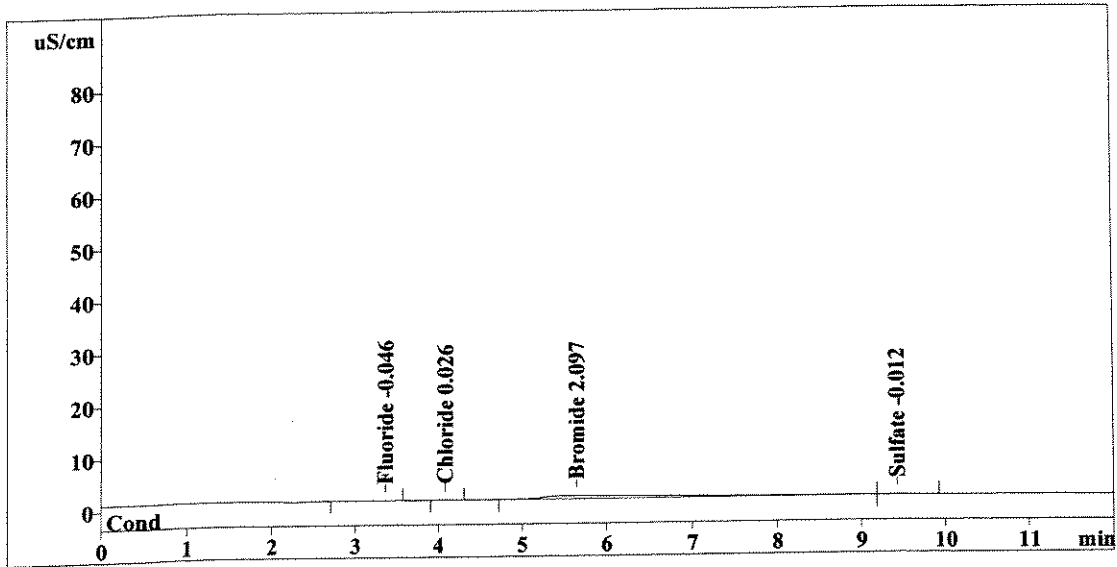
Method 300.0/9056

Report date: 7/9/2008 22:50:08
 Printed by: User
 Ident: CCB
 Analysis from: 7/9/2008 22:38:10
 File: S7092238.CHW

Last save: 7/9/2008 22:50:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38027
 SAMPLE:
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.476	-0.046	Fluoride
2	4.08	0.208	0.026	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.65	58.606	2.097	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.43	0.470	-0.012	Sulfate
6	12.00	59.759	2.181	

Handwritten notes: 'OK' with a downward arrow next to the Bromide peak; 'OUT HIGH' with a downward arrow next to the Nitrate peak; a signature and date '7/9/08' at the bottom right of the table.

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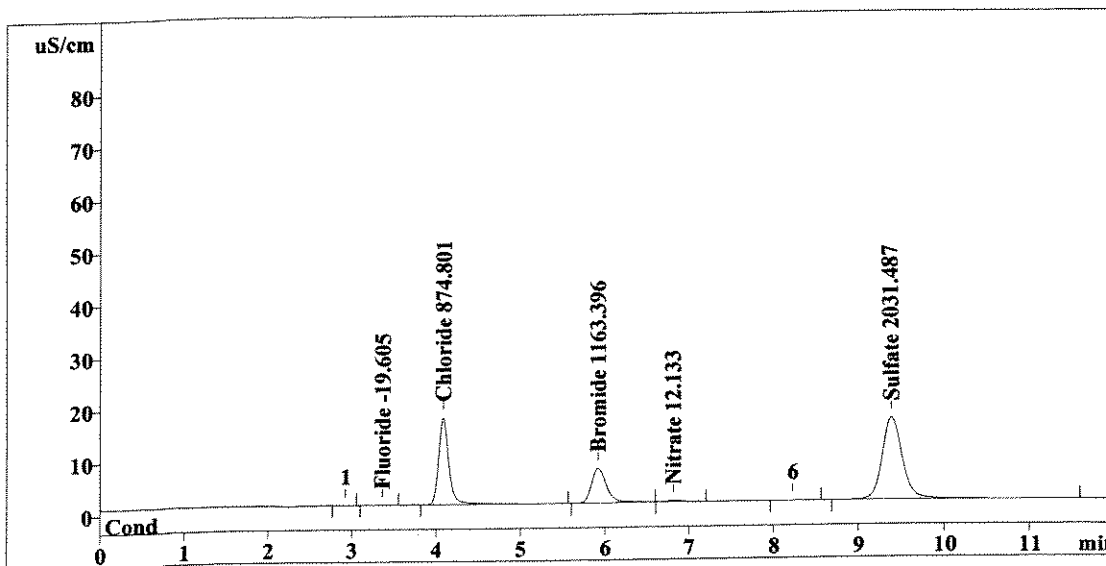
Method 300.0/9056

Report date: 7/9/2008 23:04:14
 Printed by: User
 Ident: 1115782
 Analysis from: 7/9/2008 22:52:16
 File: S7092252.CHW

Last save: 7/9/2008 23:04:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38028
 SAMPLE: CNNS
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.129	-19.605	Fluoride
2	4.08	141.529	874.801	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.92	81.550	1163.396	Bromide
5	6.82	2.316	12.133	Nitrate
6	9.40	252.971	2031.487	Sulfate
6	12.00	478.495	4101.421	

Handwritten signature and date: 7/10/08

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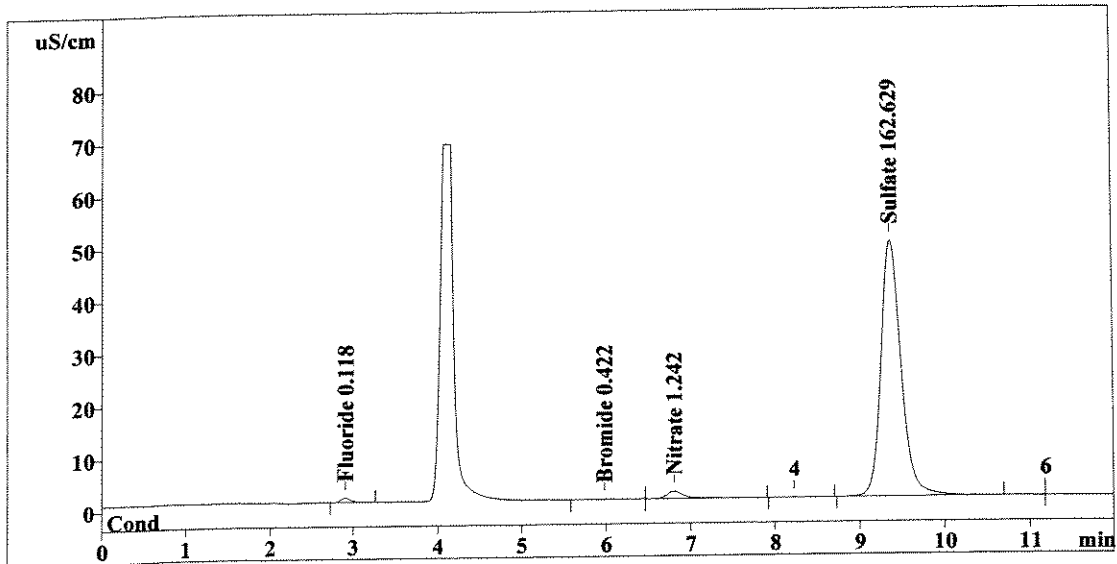
Method 300.0/9056

Report date: 7/9/2008 23:18:20
 Printed by: User
 Ident: 1115783
 Analysis from: 7/9/2008 23:06:22
 File: S7092306.CHW

Last save: 7/9/2008 23:18:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38029
 SAMPLE: CNNS
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	6.752	0.118	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.516	0.422	Bromide
5	6.80	17.933	1.242	Nitrate
6	9.37	807.698	162.629	Sulfate
<hr/>				
6	12.00	832.899	164.412	

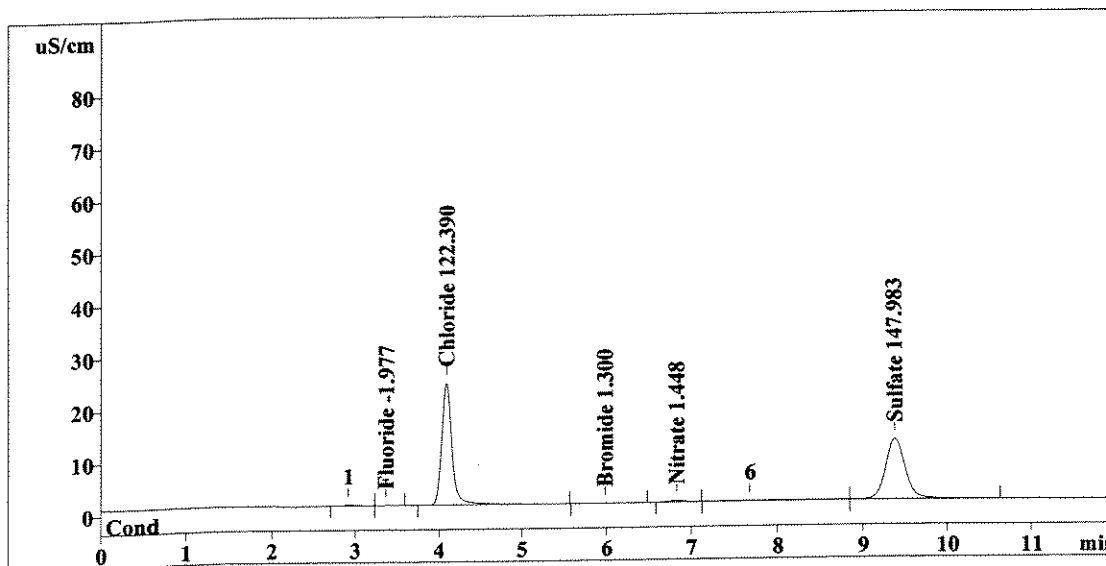
This report has been created by IC Net
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Report date: 7/9/2008 23:32:26
 Printed by: User
 Ident: 1115783
 Analysis from: 7/9/2008 23:20:28
 File: S7092320.CHW

Last save: 7/9/2008 23:32:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38030
 SAMPLE: CNNS
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.085	-1.977	Fluoride
2	4.08	198.615	122.390	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.241	1.300	Bromide
5	6.83	3.292	1.448	Nitrate
6	9.39	184.566	147.983	Sulfate
6	12.00	386.798	275.097	

OK
OK
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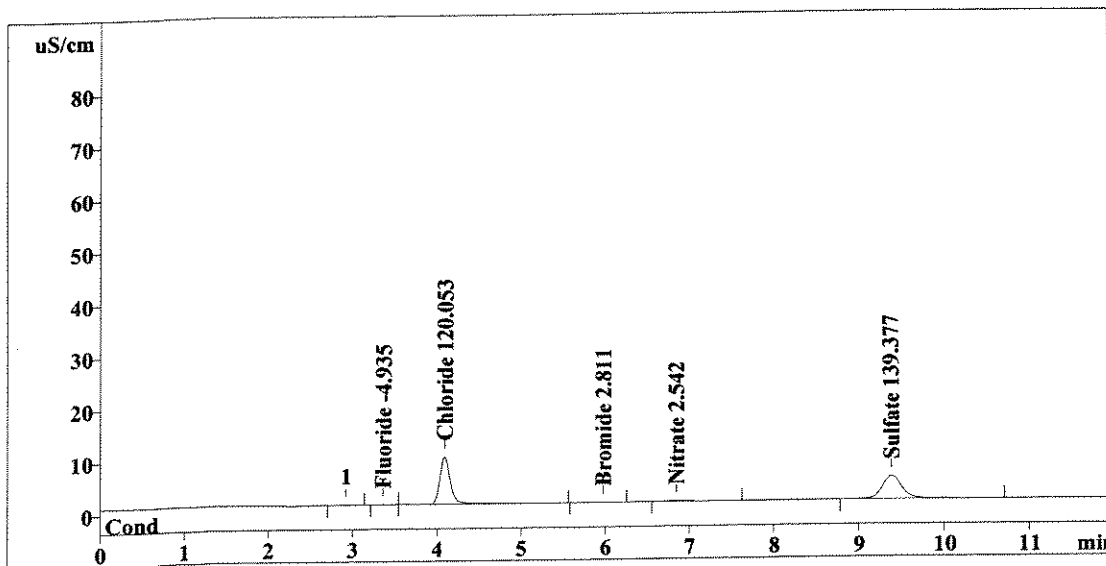
Method 300.0/9056

Report date: 7/9/2008 23:46:32
 Printed by: User
 Ident: 1115783
 Analysis from: 7/9/2008 23:34:34
 File: S7092334.CHW

Last save: 7/9/2008 23:46:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38031
 SAMPLE: CNNS
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.092	-4.935	Fluoride
2	4.08	77.004	120.053	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.116	2.811	Bromide
5	6.85	1.498	2.542	Nitrate
6	9.39	70.200	139.377	Sulfate
6	12.00	148.911	269.717	

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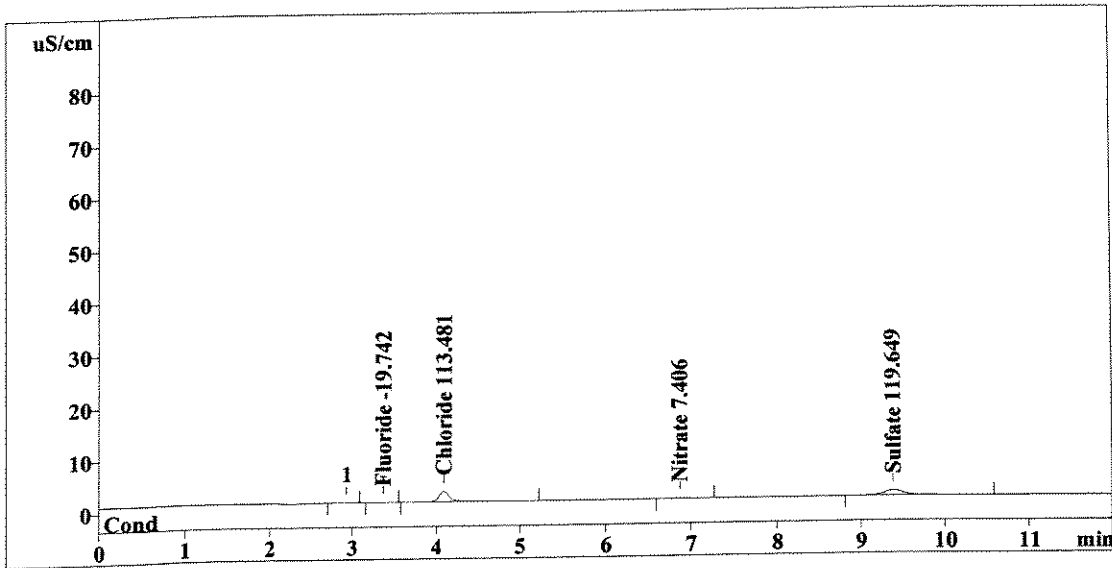
Method 300.0/9056

Report date: 7/10/2008 00:00:38
 Printed by: User
 Ident: 1115783
 Analysis from: 7/9/2008 23:48:39
 File: S7092348.CHW

Last save: 7/10/2008 00:00:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38032
 SAMPLE: CNNS
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.092	-19.742	Fluoride
2	4.09	17.035	113.481	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.87	0.350	7.406	Nitrate
6	9.39	15.906	119.649	Sulfate
<hr/>				
6	12.00	33.383	260.277	

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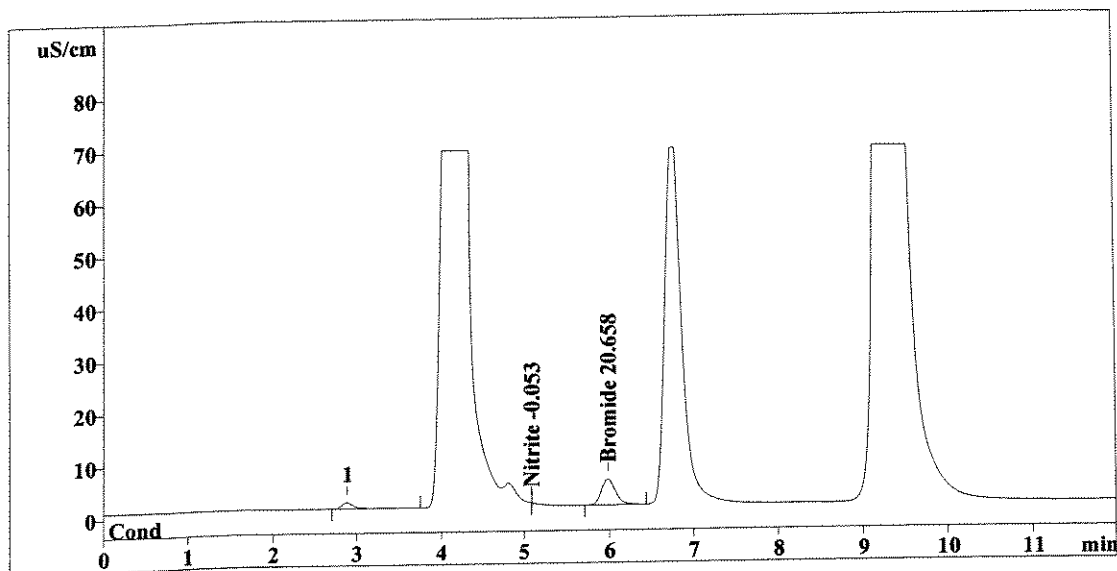
Method 300.0/9056

Report date: 7/10/2008 00:14:43
 Printed by: User
 Ident: 1115784
 Analysis from: 7/10/2008 00:02:45
 File: S7100002.CHW

Last save: 7/10/2008 00:14:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38033
 SAMPLE: CNNS
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.09	-0.000	-0.053	Nitrite
4	5.98	57.725	20.658	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	57.725	20.711	

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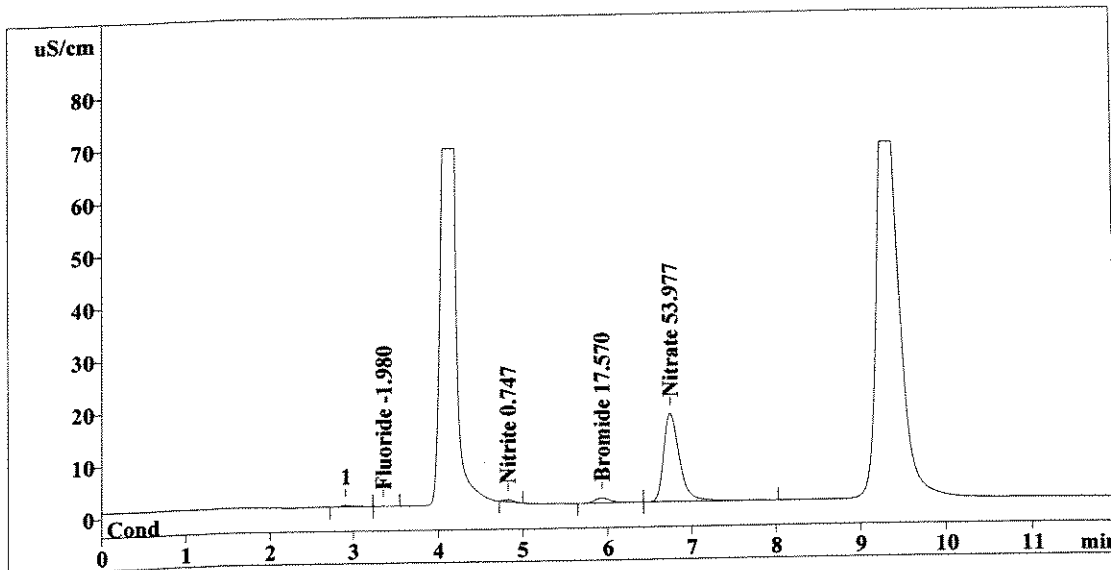
Method 300.0/9056

Report date: 7/10/2008 00:28:49
 Printed by: User
 Ident: 1115784
 Analysis from: 7/10/2008 00:16:51
 File: S7100016.CHW

Last save: 7/10/2008 00:28:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38034
 SAMPLE: CNNS
 Vial number: 20
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.077	-1.980	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.83	3.262	0.747	Nitrite
4	5.93	11.740	17.570	Bromide
5	6.74	221.714	53.977	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	236.793	74.273	

Handwritten notes: 'OK' next to rows 3 and 4, and a signature 'am' with date '7/10/08' next to the final row.

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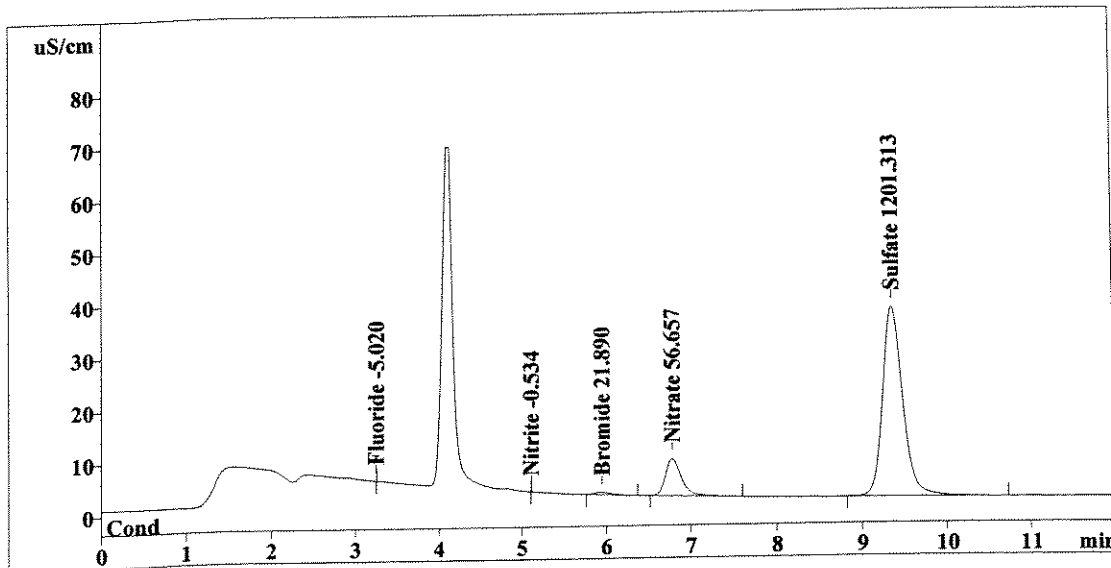
Method 300.0/9056

Report date: 7/10/2008 00:42:55
 Printed by: User
 Ident: 1115784
 Analysis from: 7/10/2008 00:30:57
 File: S7100030.CHW

Last save: 7/10/2008 00:42:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38035
 SAMPLE: CNNS
 Vial number: 21
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.24	-0.000	-5.020	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.11	-0.000	-0.534	Nitrite
4	5.95	5.511	21.890	Bromide
5	6.78	91.505	56.657	Nitrate
6	9.37	596.913	1201.313	Sulfate
<hr/>				
6	12.00	693.929	1285.414	

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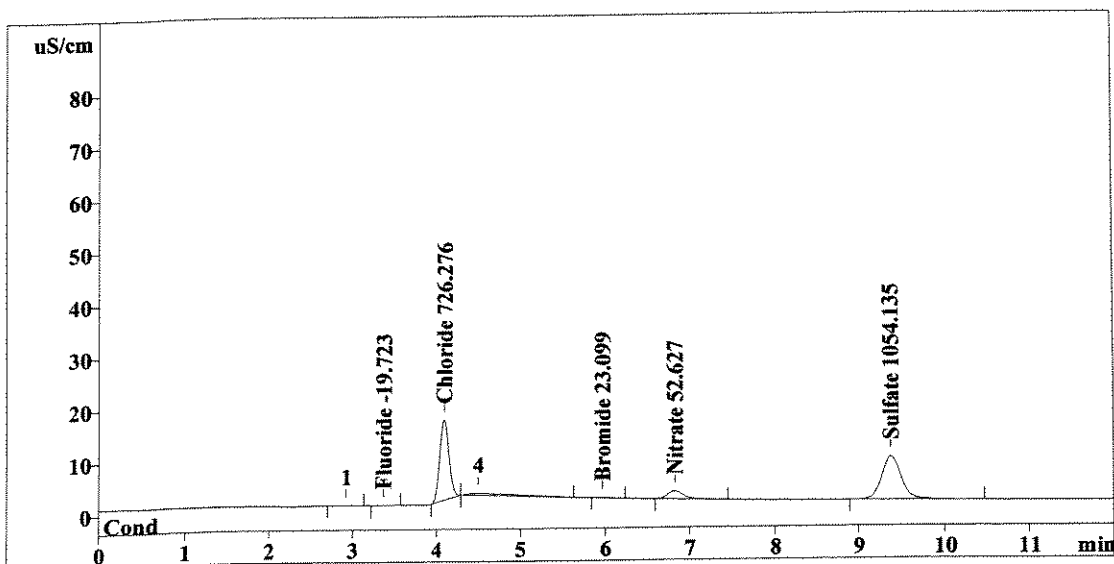
Method 300.0/9056

Report date: 7/10/2008 00:57:01
 Printed by: User
 Ident: 1115784
 Analysis from: 7/10/2008 00:45:03
 File: S7100045.CHW

Last save: 7/10/2008 00:57:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38036
 SAMPLE: CNNS
 Vial number: 22
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.097	-19.723	Fluoride
2	4.09	117.242	726.276	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.954	23.099	Bromide
5	6.82	19.154	52.627	Nitrate
6	9.38	131.781	1054.135	Sulfate
<hr/>				
6	12.00	269.227	1875.860	

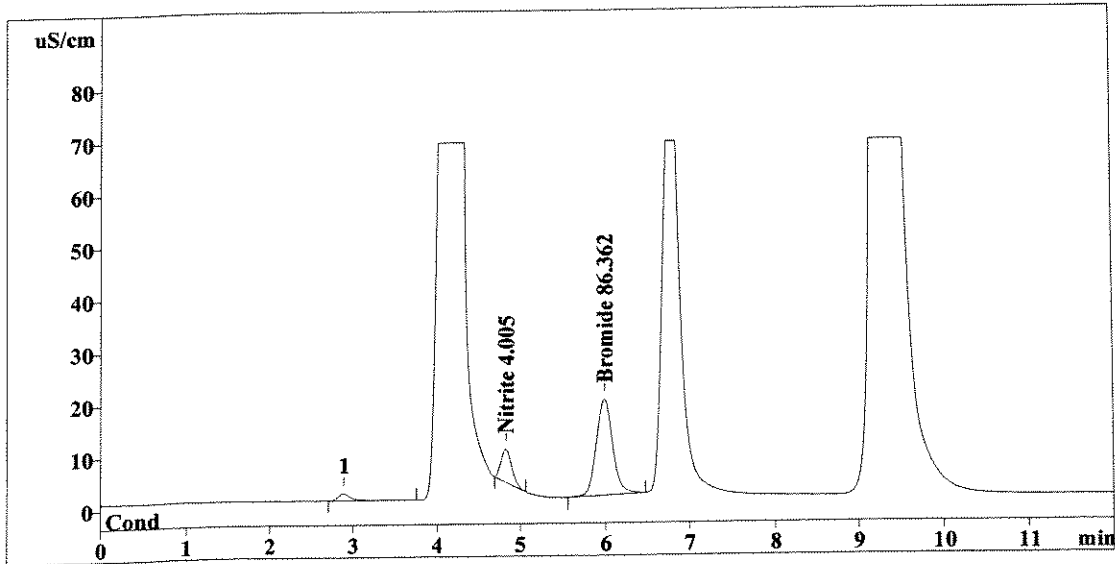
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Report date: 7/10/2008 01:11:07
 Printed by: User
 Ident: 1115785
 Analysis from: 7/10/2008 00:59:09
 File: S7100059.CHW

Last save: 7/10/2008 01:11:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38037
 SAMPLE: CNNS
 Vial number: 23
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.83	55.145	4.005	Nitrite
4	5.98	243.483	86.362	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	298.628	90.367	

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 [Signature]
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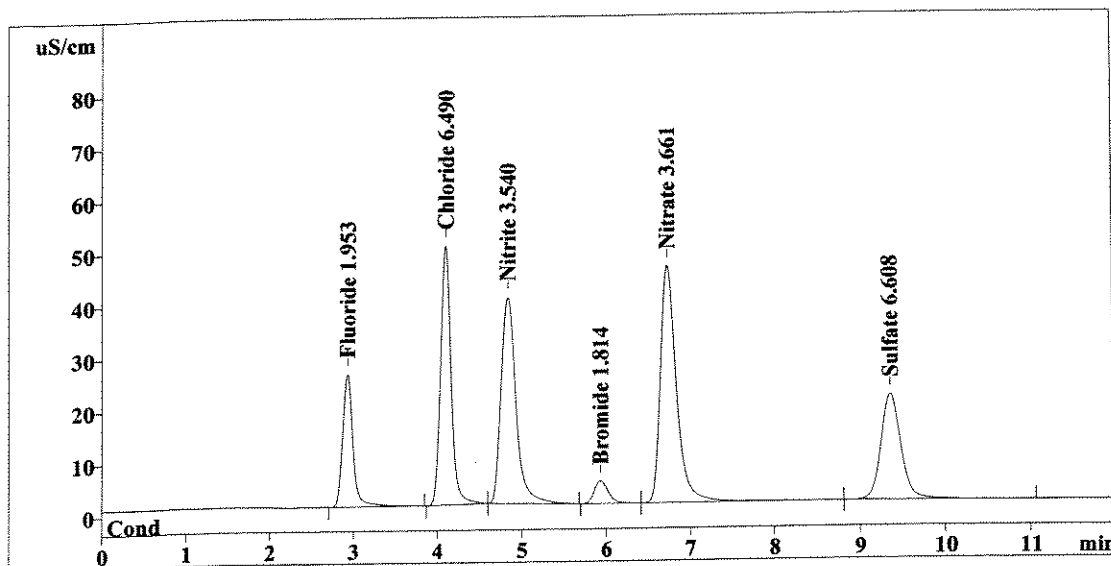
Method 300.0/9056

Report date: 7/10/2008 01:25:13
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 01:13:15
 File: S7100113.CHW

Last save: 7/10/2008 01:25:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38038
 SAMPLE:
 Vial number: 24
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	218.162	1.953	Fluoride
2	4.09	423.002	6.490	Chloride
3	4.82	481.665	3.540	Nitrite
4	5.93	50.603	1.814	Bromide
5	6.72	606.125	3.661	Nitrate
6	9.36	328.816	6.608	Sulfate
<hr/>				
6	12.00	2108.373	24.066	

OK
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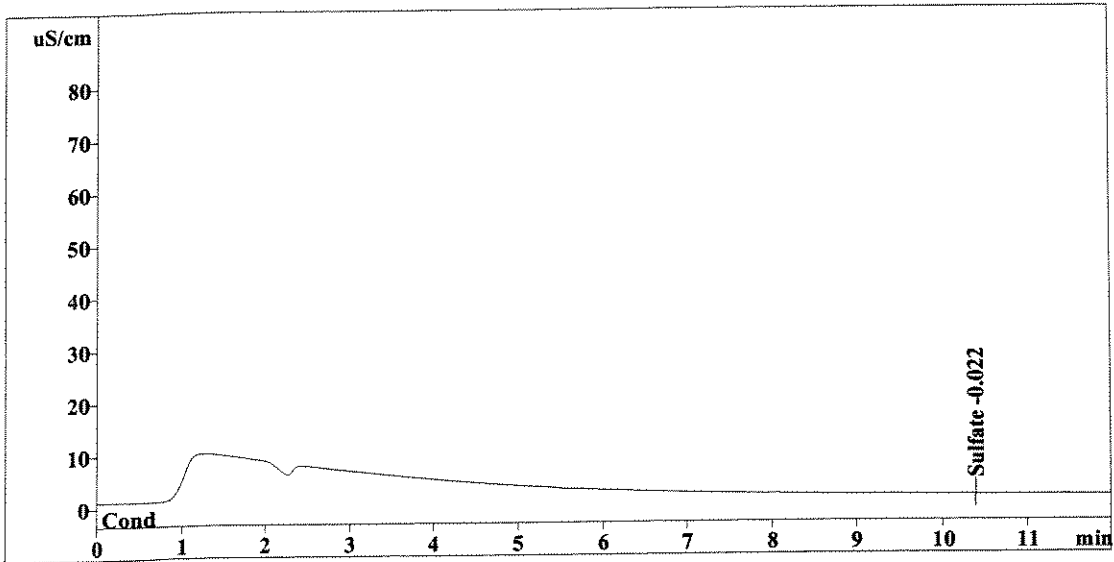
Method 300.0/9056

Report date: 7/10/2008 01:39:21
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 01:27:21
 File: S7100127.CHW

Last save: 7/10/2008 01:39:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38039
 SAMPLE:
 Vial number: 25
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	10.39	-0.000	-0.022	Sulfate
6	12.00	0.000	0.022	

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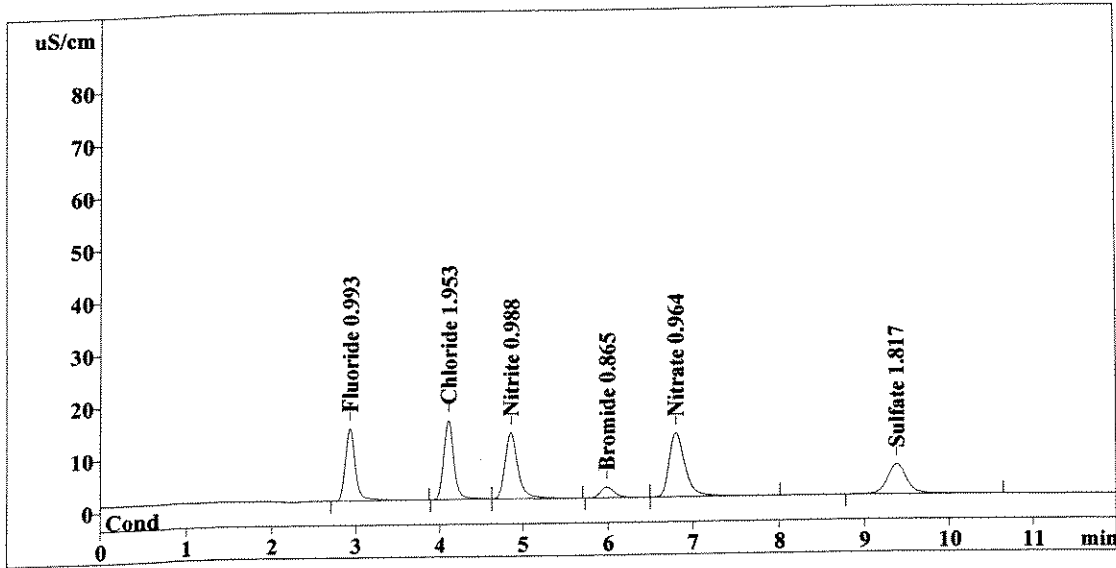
Method 300.0/9056

Report date: 7/10/2008 01:53:27
 Printed by: User
 Ident: LCS
 Analysis from: 7/10/2008 01:41:29
 File: S7100141.CHW

Last save: 7/10/2008 01:53:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38040
 SAMPLE:
 Vial number: 26
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	113.551	0.993	Fluoride
2	4.09	126.208	1.953	Chloride
3	4.84	134.908	0.988	Nitrite
4	5.98	23.784	0.865	Bromide
5	6.80	157.670	0.964	Nitrate
6	9.38	91.179	1.817	Sulfate
<hr/>				
6	12.00	647.300	7.579	

Handwritten notes: 'OUT LOW' with arrows pointing to rows 4 and 5. A signature and date '7/10/08' are written below the table.

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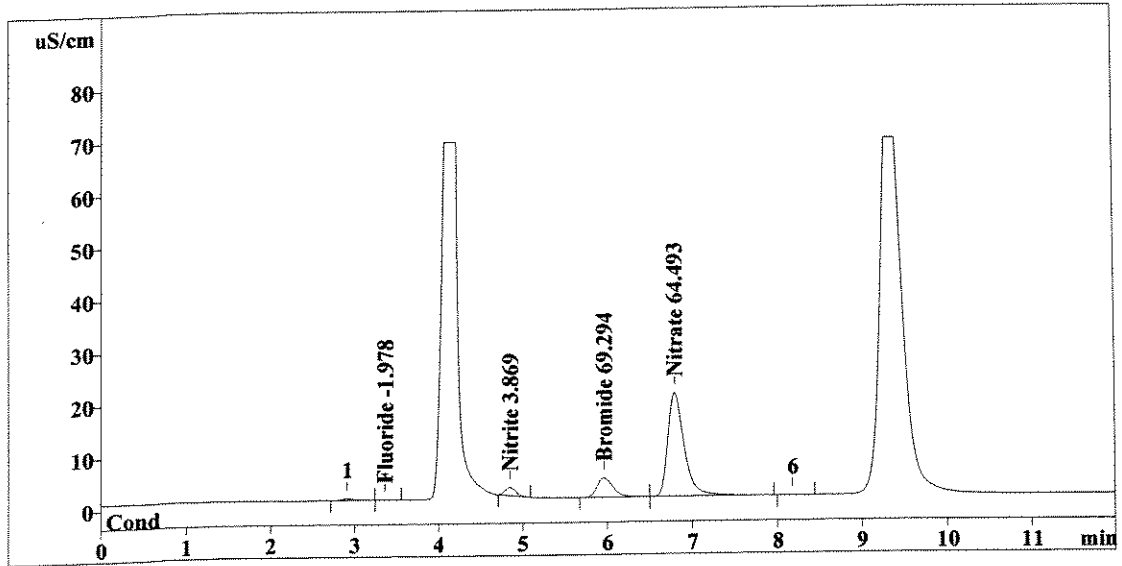
Method 300.0/9056

Report date: 7/10/2008 02:07:33
 Printed by: User
 Ident: 1115785
 Analysis from: 7/10/2008 01:55:35
 File: S7100155.CHW

Last save: 7/10/2008 02:07:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38041
 SAMPLE: CNNS
 Vial number: 27
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.082	-1.978	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.84	13.867	3.869	Nitrite
4	5.96	48.298	69.294	Bromide
5	6.79	265.437	64.493	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	327.685	139.633	

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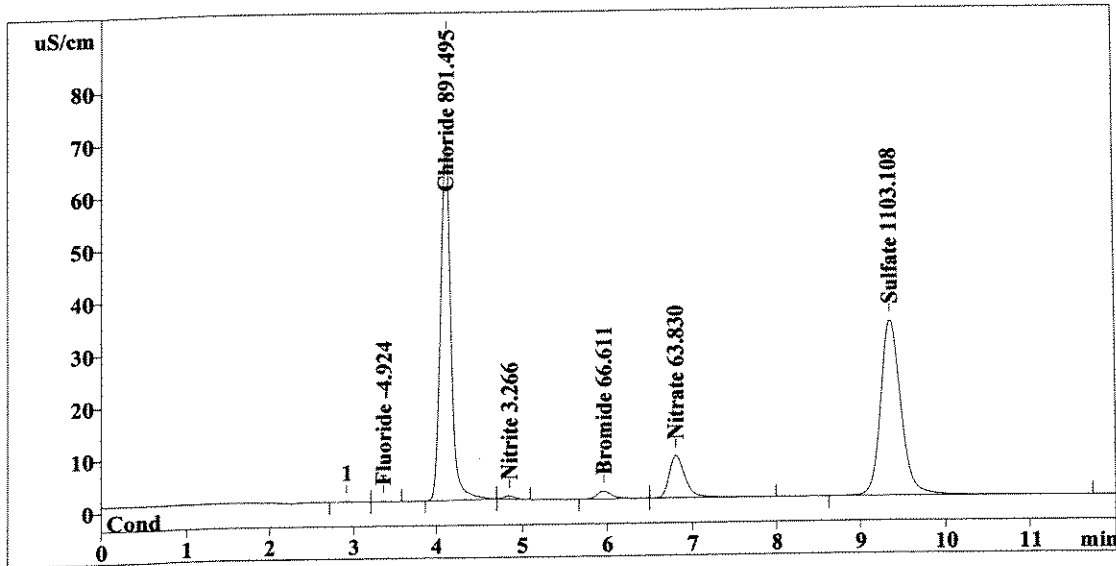
Method 300.0/9056

Report date: 7/10/2008 02:21:39
 Printed by: User
 Ident: 1115785
 Analysis from: 7/10/2008 02:09:41
 File: S7100209.CHW

Last save: 7/10/2008 02:21:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38042
 SAMPLE: CNNS
 Vial number: 28
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.104	-4.924	Fluoride
2	4.09	581.602	891.495	Chloride
3	4.85	5.163	3.266	Nitrite
4	5.96	18.154	66.611	Bromide
5	6.80	103.435	63.830	Nitrate
6	9.36	548.204	1103.108	Sulfate
6	12.00	1256.661	2133.234	

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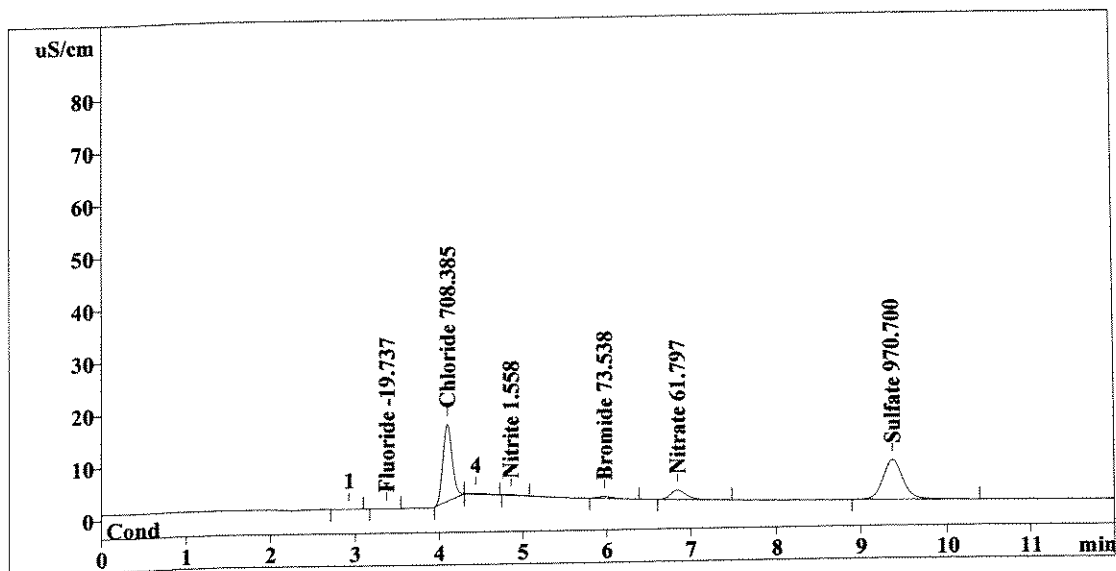
Method 300.0/9056

Report date: 7/10/2008 02:35:45
 Printed by: User
 Ident: 1115785
 Analysis from: 7/10/2008 02:23:47
 File: S7100223.CHW

Last save: 7/10/2008 02:35:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38043
 SAMPLE: CNNS
 Vial number: 29
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.093	-19.737	Fluoride
2	4.09	114.316	708.385	Chloride
3	4.86	1.254	1.558	Nitrite
4	5.97	4.519	73.538	Bromide
5	6.85	22.966	61.797	Nitrate
6	9.37	121.435	970.700	Sulfate
<hr/>				
6	12.00	264.584	1835.714	

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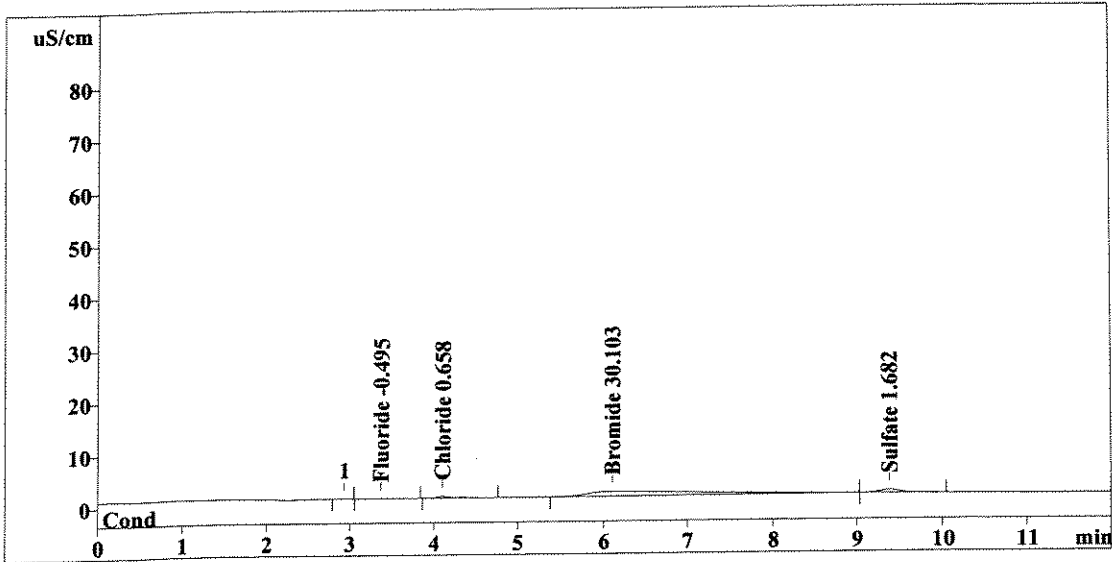
Method 300.0/9056

Report date: 7/10/2008 02:49:51
 Printed by: User
 Ident: 1114371
 Analysis from: 7/10/2008 02:37:53
 File: S7100237.CHW

Last save: 7/10/2008 02:49:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38044
 SAMPLE: CS
 Vial number: 30
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.074	-0.495	Fluoride
2	4.10	2.783	0.658	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.10	84.427	30.103	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.38	9.411	1.682	Sulfate
<hr/>				
6	12.00	96.696	32.938	

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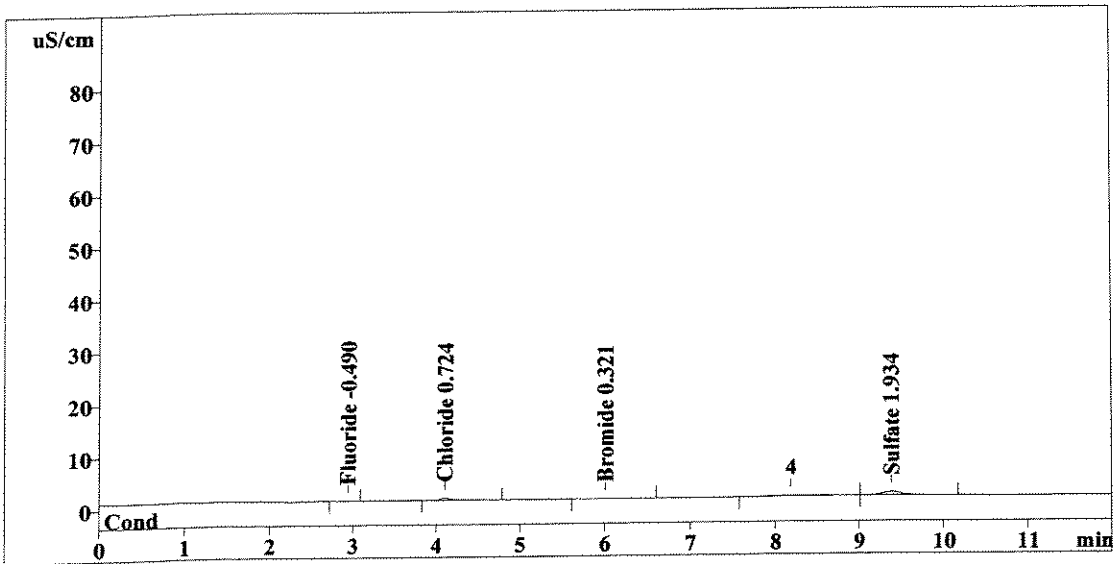
This report has been created by IC Net
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Report date: 7/10/2008 03:03:58
 Printed by: User
 Ident: 1114372
 Analysis from: 7/10/2008 02:51:59
 File: S7100251.CHW

Last save: 7/10/2008 03:03:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38045
 SAMPLE: CS
 Vial number: 31
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.130	-0.490	Fluoride
2	4.10	3.213	0.724	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.01	0.229	0.321	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.39	10.663	1.934	Sulfate
6	12.00	14.236	3.469	

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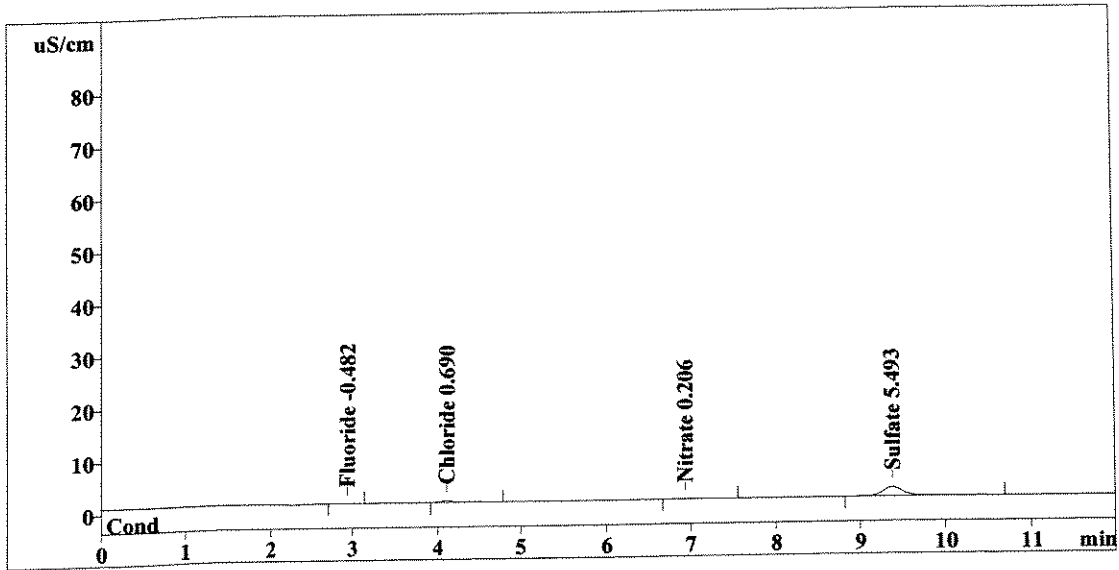
Method 300.0/9056

Report date: 7/10/2008 03:18:04
 Printed by: User
 Ident: 1114373
 Analysis from: 7/10/2008 03:06:05
 File: S7100306.CHW

Last save: 7/10/2008 03:18:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38046
 SAMPLE: CS
 Vial number: 32
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	0.220	-0.482	Fluoride
2	4.10	2.994	0.690	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.93	0.690	0.206	Nitrate
6	9.39	28.313	5.493	Sulfate
<hr/>				
6	12.00	32.217	6.870	

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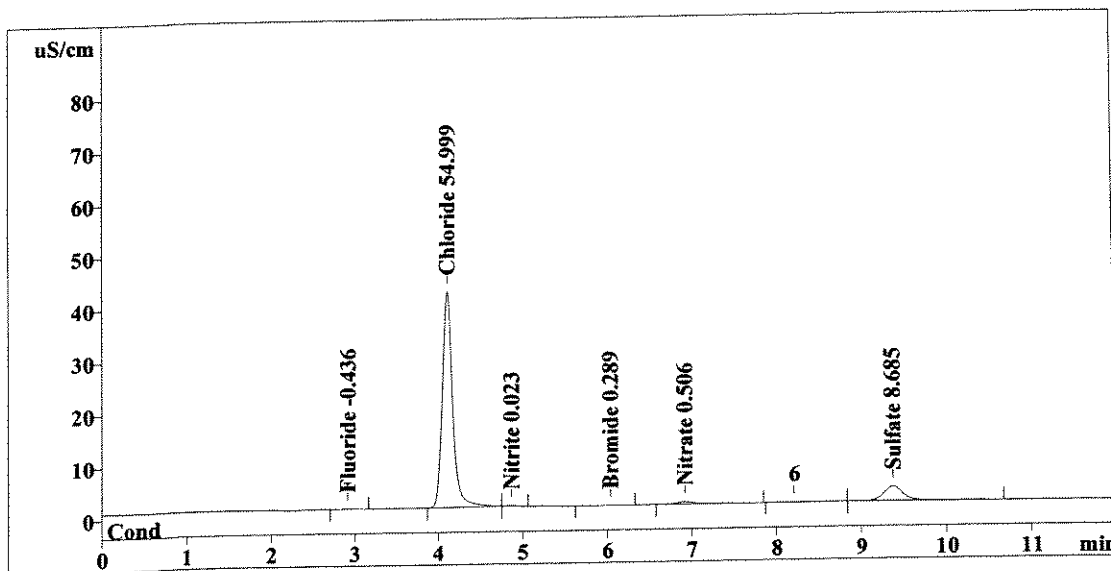
Method 300.0/9056

Report date: 7/10/2008 03:32:10
 Printed by: User
 Ident: 1114691
 Analysis from: 7/10/2008 03:20:11
 File: S7100320.CHW

Last save: 7/10/2008 03:32:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38047
 SAMPLE: CS
 Vial number: 33
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.723	-0.436	Fluoride
2	4.10	358.223	54.999	Chloride
3	4.87	1.035	0.023	Nitrite
4	6.05	0.140	0.289	Bromide
5	6.91	5.691	0.506	Nitrate
6	9.38	44.149	8.685	Sulfate
<hr/>				
6	12.00	409.961	64.938	

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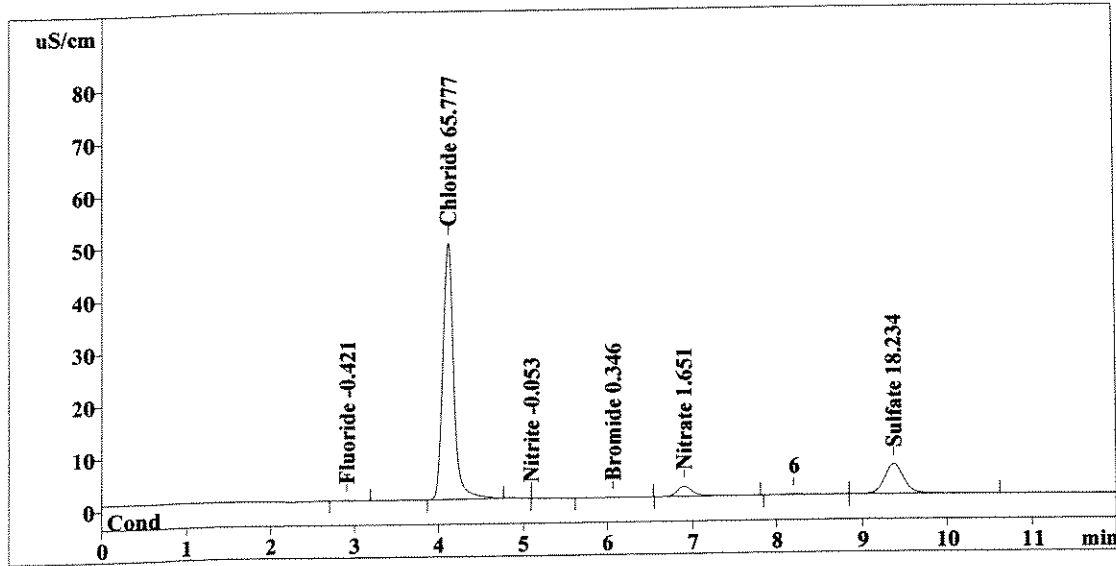
Method 300.0/9056

Report date: 7/10/2008 03:46:16
 Printed by: User
 Ident: 1114692
 Analysis from: 7/10/2008 03:34:17
 File: S7100334.CHW

Last save: 7/10/2008 03:46:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38048
 SAMPLE: CS
 Vial number: 34
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	0.883	-0.421	Fluoride
2	4.10	428.726	65.777	Chloride
3	5.09	-0.000	-0.053	Nitrite
4	6.07	0.300	0.346	Bromide
5	6.89	24.738	1.651	Nitrate
6	9.37	91.507	18.234	Sulfate
<hr/>				
6	12.00	546.154	86.483	

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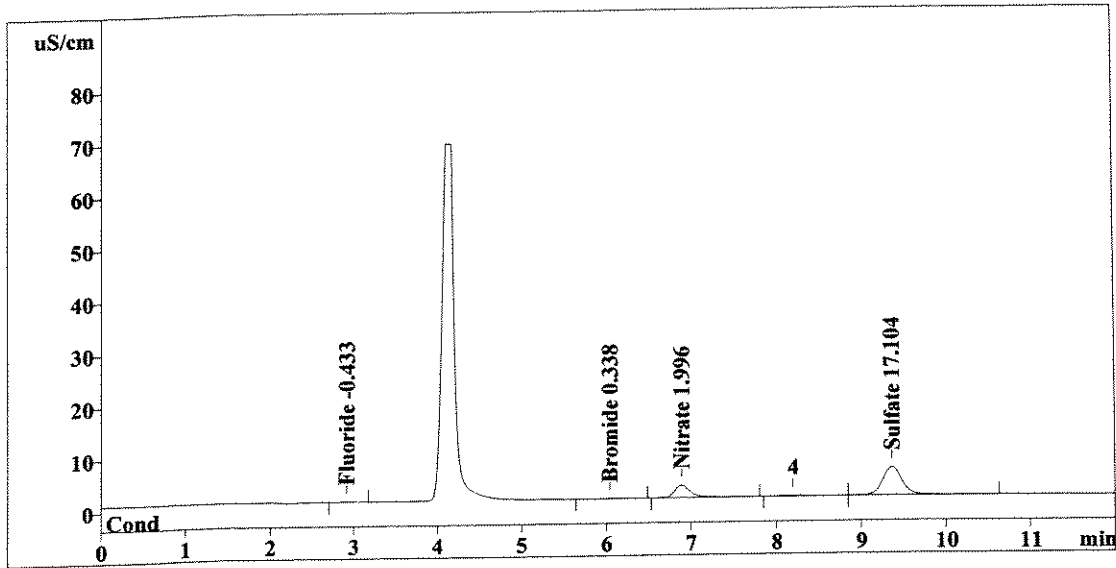
Method 300.0/9056

Report date: 7/10/2008 04:00:22
 Printed by: User
 Ident: 1114693
 Analysis from: 7/10/2008 03:48:24
 File: S7100348.CHW

Last save: 7/10/2008 04:00:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38049
 SAMPLE: CS
 Vial number: 35
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.746	-0.433	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.05	0.276	0.338	Bromide
5	6.89	30.475	1.996	Nitrate
6	9.36	85.902	17.104	Sulfate
6	12.00	117.399	19.871	

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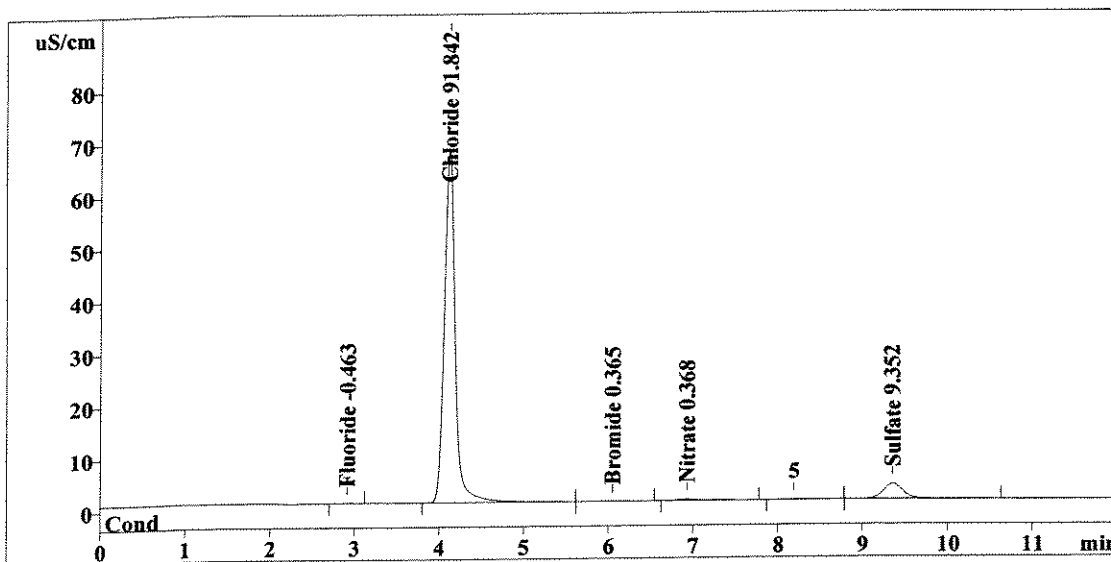
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 Report date: 7/10/2008 04:14:28
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 Ident: 1114694
 Analysis from: 7/10/2008 04:02:29
 File: S7100402.CHW

Method 300.0/9056

Last save: 7/10/2008 04:14:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38050
 SAMPLE: CS
 Vial number: 36
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.423	-0.463	Fluoride
2	4.10	599.213	91.842	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.05	0.353	0.365	Bromide
5	6.93	3.387	0.368	Nitrate
6	9.36	47.455	9.352	Sulfate
6	12.00	650.831	102.389	

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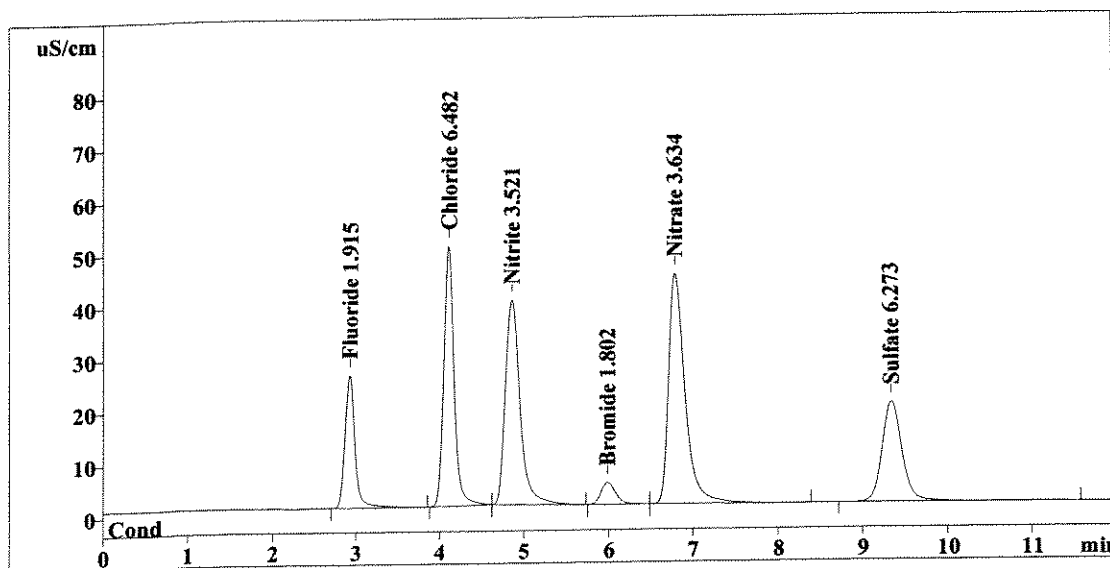
Method 300.0/9056

Report date: 7/10/2008 04:28:34
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 04:16:36
 File: S7100416.CHW

Last save: 7/10/2008 04:28:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38051
 SAMPLE:
 Vial number: 37
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	213.991	1.915	Fluoride
2	4.10	422.453	6.482	Chloride
3	4.85	479.122	3.521	Nitrite
4	5.99	50.271	1.802	Bromide
5	6.79	601.725	3.634	Nitrate
6	9.34	312.224	6.273	Sulfate
6	12.00	2079.786	23.628	

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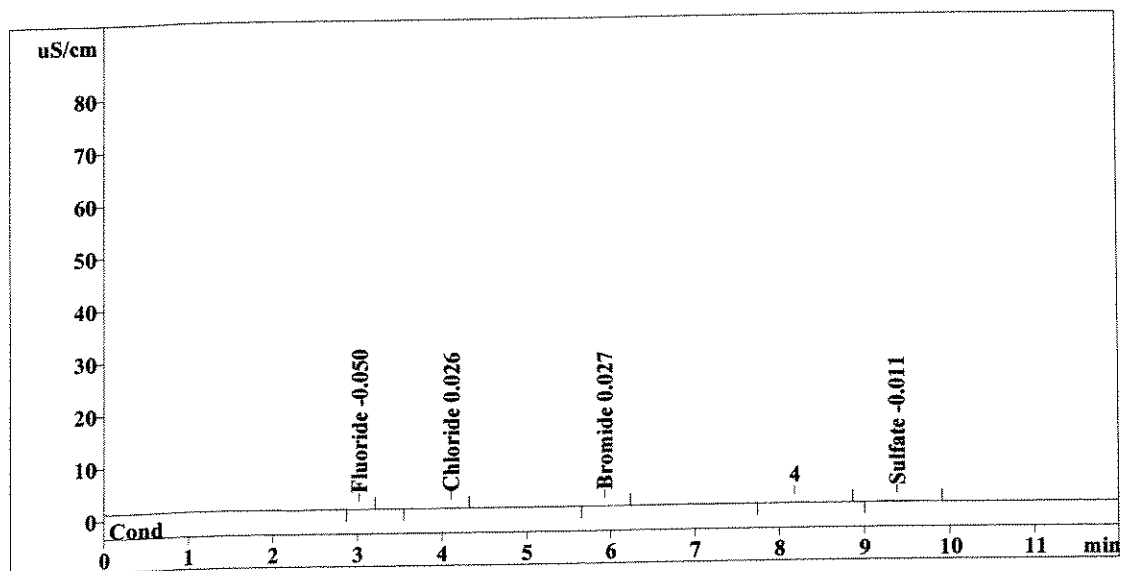
Method 300.0/9056

Report date: 7/10/2008 04:42:40
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 04:30:42
 File: S7100430.CHW

Last save: 7/10/2008 04:42:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38052
 SAMPLE:
 Vial number: 38
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.01	0.072	-0.050	Fluoride
2	4.10	0.197	0.026	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.074	0.027	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.39	0.547	-0.011	Sulfate
<hr/>				
6	12.00	0.890	0.113	

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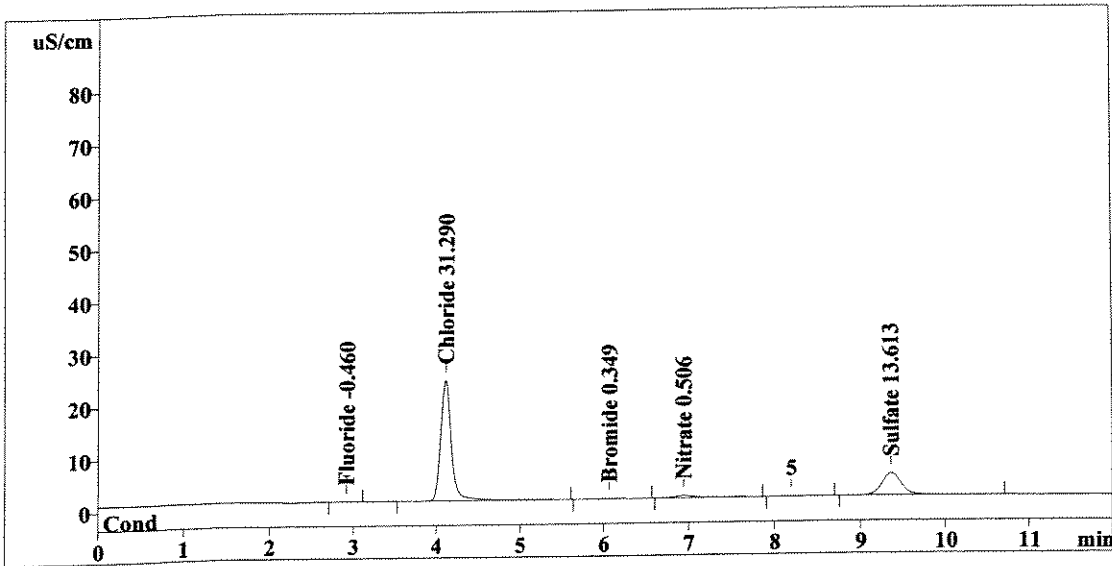
Method 300.0/9056

Report date: 7/10/2008 04:56:46
 Printed by: User
 Ident: 1114696
 Analysis from: 7/10/2008 04:44:48
 File: S7100444.CHW

Last save: 7/10/2008 04:56:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38053
 SAMPLE: CS
 Vial number: 39
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.454	-0.460	Fluoride
2	4.10	203.147	31.290	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.06	0.308	0.349	Bromide
5	6.94	5.680	0.506	Nitrate
6	9.36	68.591	13.613	Sulfate
<hr/>				
6	12.00	278.181	46.218	

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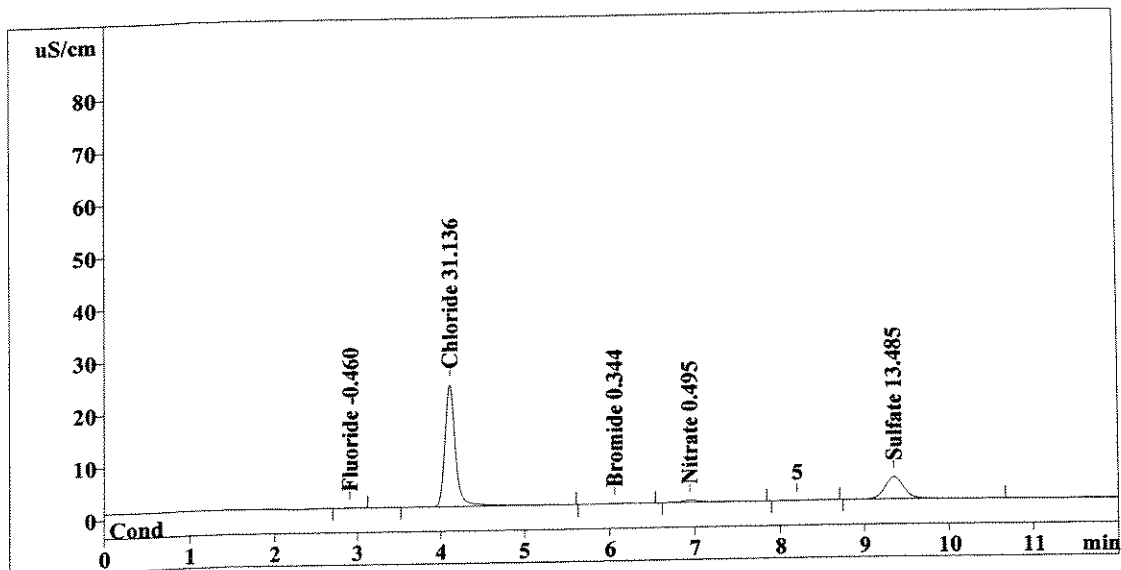
Method 300.0/9056

Report date: 7/10/2008 05:10:52
 Printed by: User
 Ident: 1114696 DUP
 Analysis from: 7/10/2008 04:58:54
 File: S7100458.CHW

Last save: 7/10/2008 05:10:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38054
 SAMPLE: CS
 Vial number: 40
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.455	-0.460	Fluoride
2	4.10	202.139	31.136	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.06	0.294	0.344	Bromide
5	6.94	5.507	0.495	Nitrate
6	9.35	67.957	13.485	Sulfate
6	12.00	276.351	45.921	

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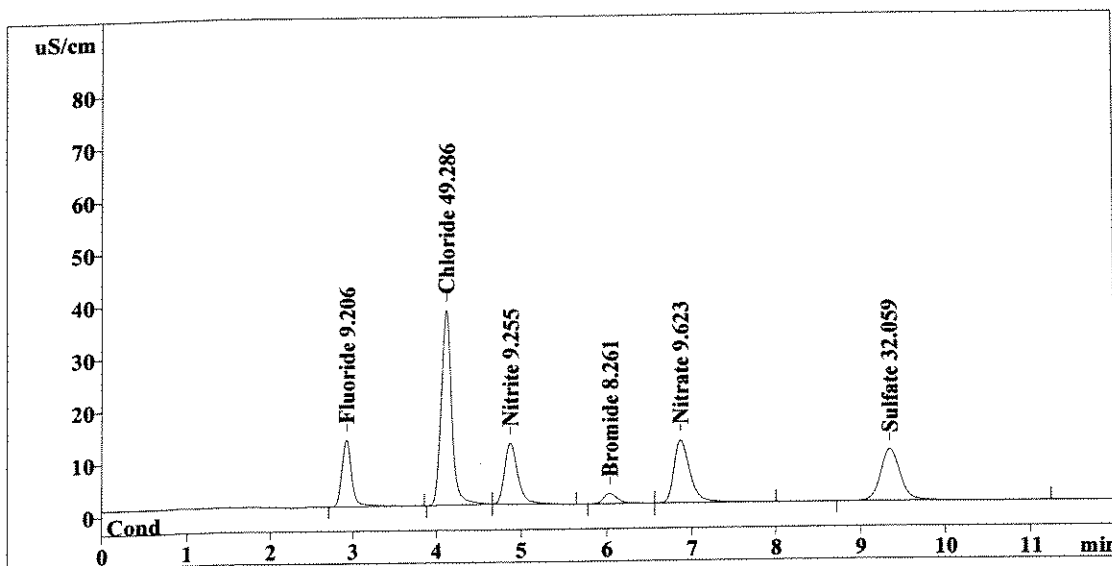
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 Report date: 7/10/2008 05:25:00
 Printed by: User
 Ident: 1114696 SPK
 Analysis from: 7/10/2008 05:13:00
 File: S7100513.CHW

Method 300.0/9056

Last save: 7/10/2008 05:24:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38055
 SAMPLE: CS
 Vial number: 41
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	105.702	9.206	Fluoride
2	4.10	320.853	49.286	Chloride
3	4.87	126.472	9.255	Nitrite
4	6.04	22.678	8.261	Bromide
5	6.86	157.320	9.623	Nitrate
6	9.35	160.081	32.059	Sulfate
6	12.00	893.107	17.690	

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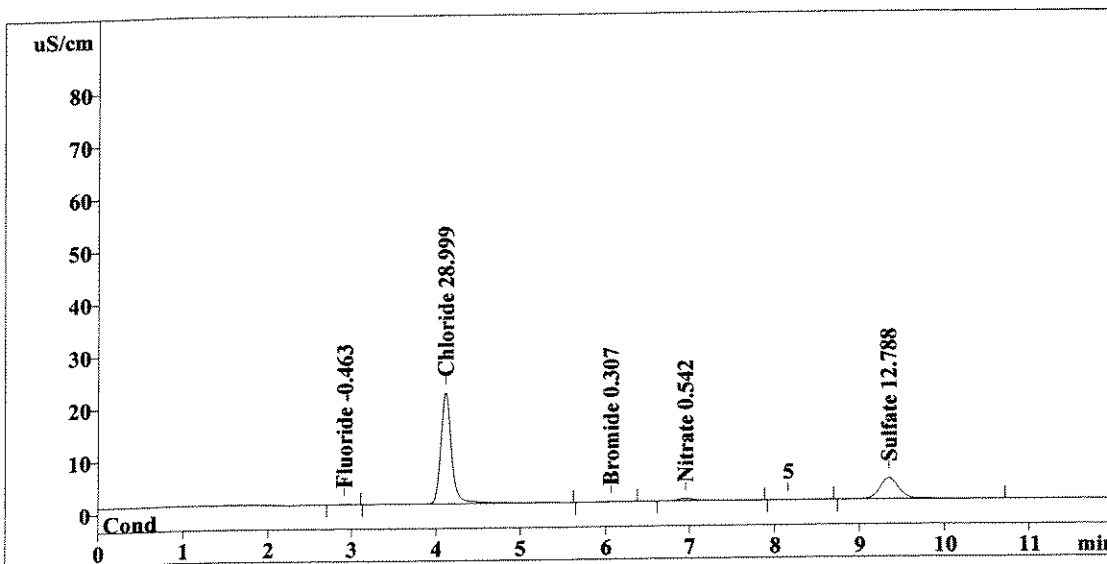
Method 300.0/9056

Report date: 7/10/2008 05:39:12
 Printed by: User
 Ident: 1114697
 Analysis from: 7/10/2008 05:27:14
 File: S7100527.CHW

Last save: 7/10/2008 05:39:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38056
 SAMPLE: CS
 Vial number: 42
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.422	-0.463	Fluoride
2	4.11	188.162	28.999	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.06	0.190	0.307	Bromide
5	6.95	6.286	0.542	Nitrate
6	9.35	64.496	12.788	Sulfate
6	12.00	259.556	43.100	

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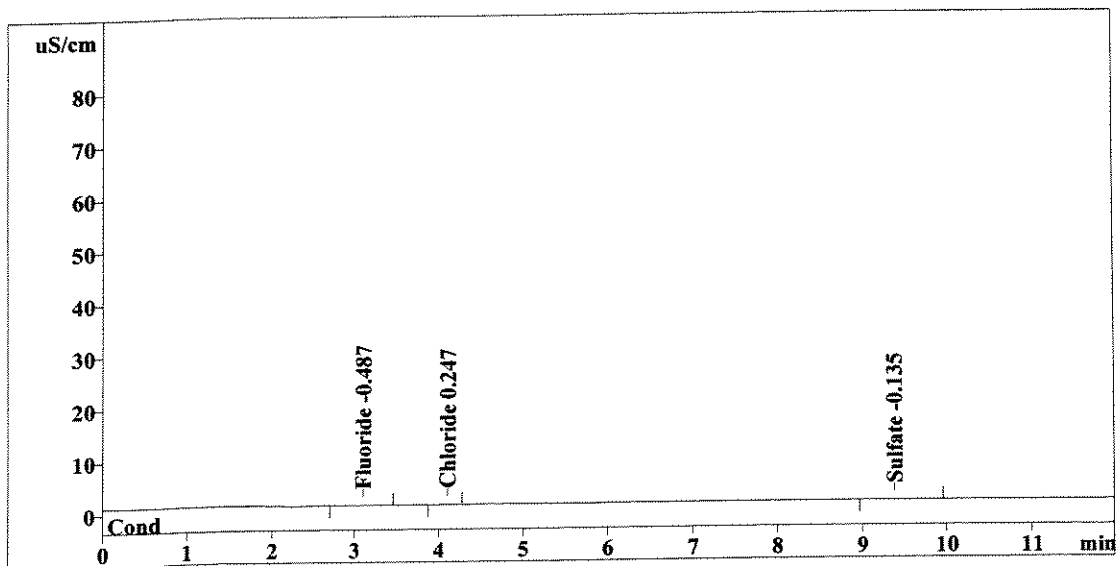
Ion Chromatography Analytical Report
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 Report date: 7/10/2008 05:53:18
 Printed by: User
 Ident: 1114698
 Analysis from: 7/10/2008 05:41:20
 File: S7100541.CHW

Method 300.0/9056

Last save: 7/10/2008 05:53:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38057
 SAMPLE: CS
 Vial number: 43
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.10	0.165	-0.487	Fluoride
2	4.10	0.092	0.247	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.38	0.401	-0.135	Sulfate
6	12.00	0.659	0.868	

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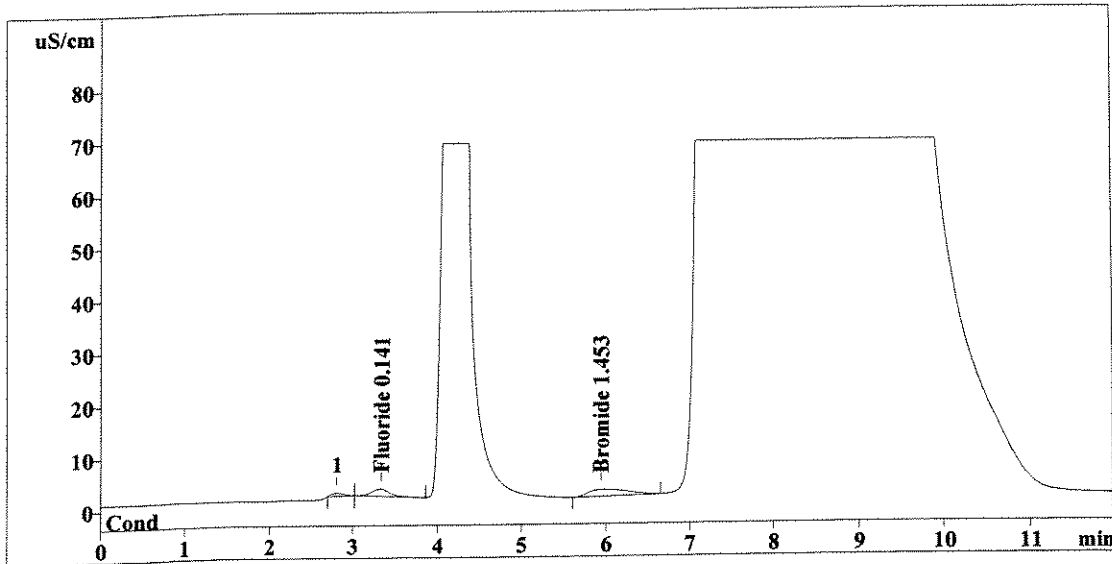
Method 300.0/9056

Report date: 7/10/2008 06:07:24
 Printed by: User
 Ident: 1114380
 Analysis from: 7/10/2008 05:55:26
 File: S7100555.CHW

Last save: 7/10/2008 06:07:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38058
 SAMPLE: NN
 Vial number: 44
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.33	20.844	0.141	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.94	40.387	1.453	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	61.231	1.594	

Handwritten signature and date: 7/10/08

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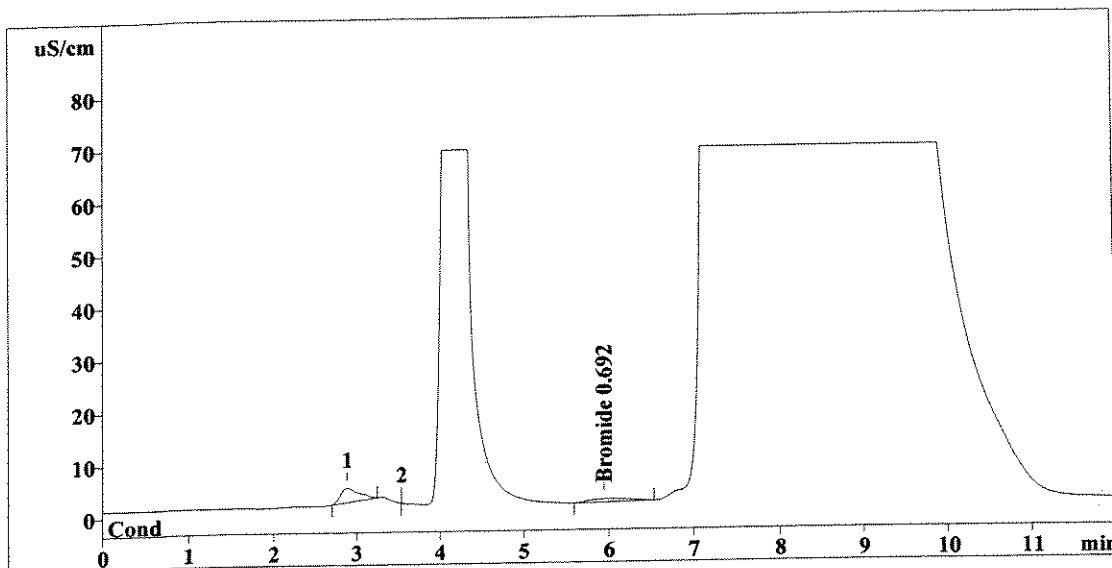
Method 300.0/9056

Report date: 7/10/2008 06:21:30
 Printed by: User
 Ident: 1114380 DUP
 Analysis from: 7/10/2008 06:09:32
 File: S7100609.CHW

Last save: 7/10/2008 06:21:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38059
 SAMPLE: NN
 Vial number: 45
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.94	18.875	0.692	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	18.875	0.692	

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 Columbia Analytical Services
 Rochester, NY 14609

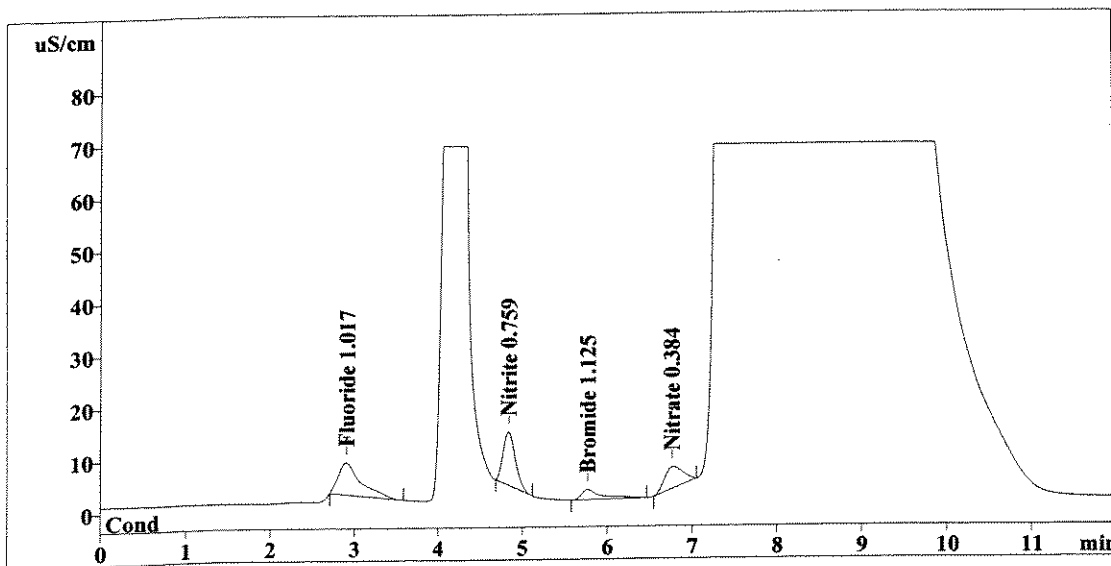
Method 300.0/9056

Report date: 7/10/2008 06:35:36
 Printed by: User
 Ident: 1114380 SPK
 Analysis from: 7/10/2008 06:23:38
 File: S7100623.CHW

Last save: 7/10/2008 06:35:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38060
 SAMPLE: NN
 Vial number: 46
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	116.251	1.017	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.83	103.790	0.759	Nitrite
4	5.77	31.130	1.125	Bromide
5	6.77	61.093	0.384	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	312.264	3.285	

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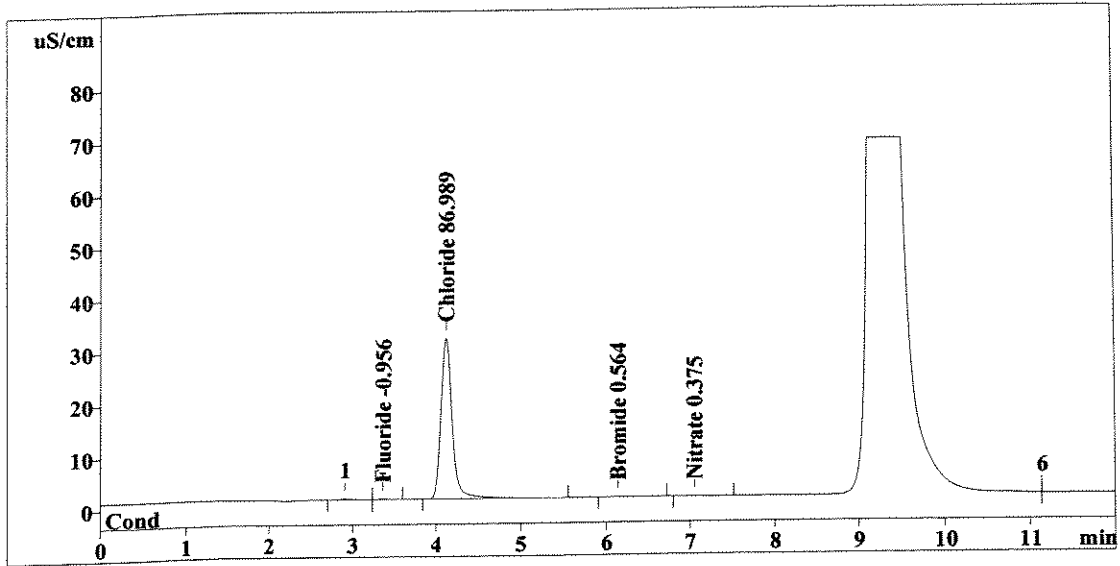
Report date: 7/10/2008 06:49:43
 Printed by: User
 Ident: 1114380
 Analysis from: 7/10/2008 06:37:45
 File: S7100637.CHW

extraction

Last save: 7/10/2008 06:49:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38061
 SAMPLE: C
 Vial number: 47
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.263	-0.956	Fluoride
2	4.11	282.974	86.989	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.13	0.119	0.564	Bromide
5	7.05	0.388	0.375	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	283.744	88.883	

7/10/08

259 → 250 ml

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Method 300.0/9056

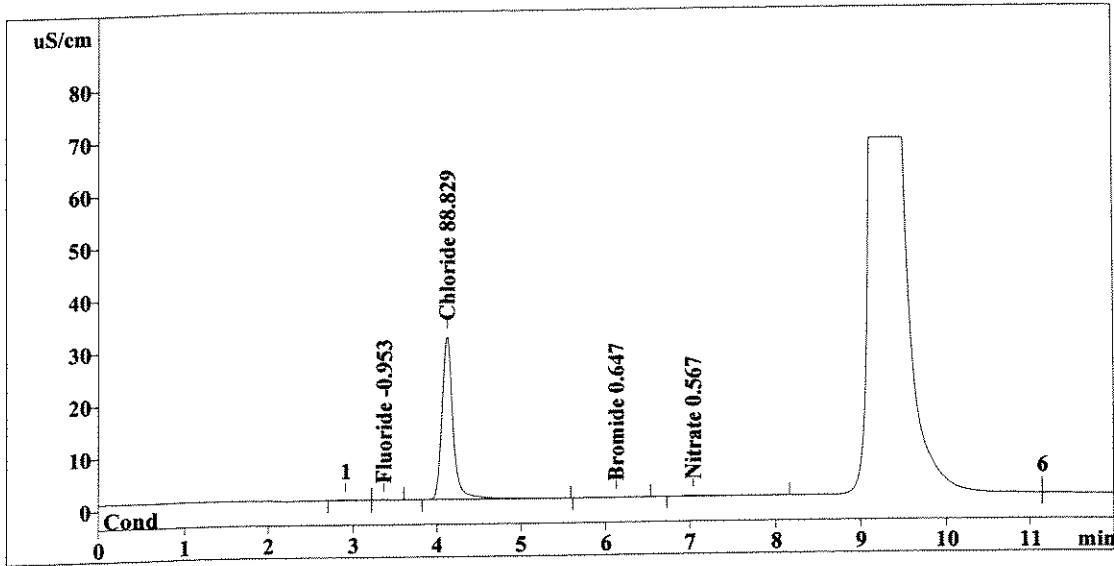
Report date: 7/10/2008 07:03:50
 Printed by: User
 Ident: 1114380 DUP
 Analysis from: 7/10/2008 06:51:51
 File: S7100651.CHW

Last save: 7/10/2008 07:03:45

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38062
 SAMPLE: C
 Vial number: 48
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51

Subtraction



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.275	-0.953	Fluoride
2	4.11	288.993	88.829	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.13	0.237	0.647	Bromide
5	7.04	1.982	0.567	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	291.487	90.997	

CV 7/10/08

259 → 250ml

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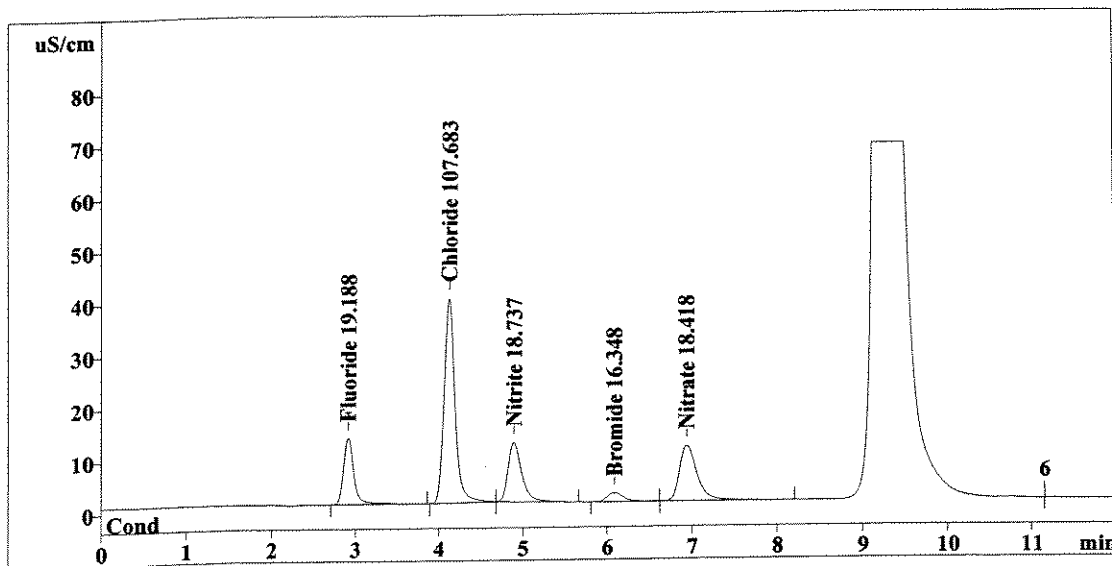
Report date: 7/10/2008 07:17:56
 Printed by: User
 Ident: 1114380 SPK
 Analysis from: 7/10/2008 07:05:57
 File: S7100705.CHW

Last save: 7/10/2008 07:17:51

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38063
 SAMPLE: C
 Vial number: 49
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51

Extraction



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	109.929	19.188	Fluoride
2	4.11	350.653	107.683	Chloride
3	4.88	128.018	18.737	Nitrite
4	6.09	22.432	16.348	Bromide
5	6.94	150.442	18.418	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	761.474	180.375	

OK
OK
OK
7/10/08

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259 → 250 mL

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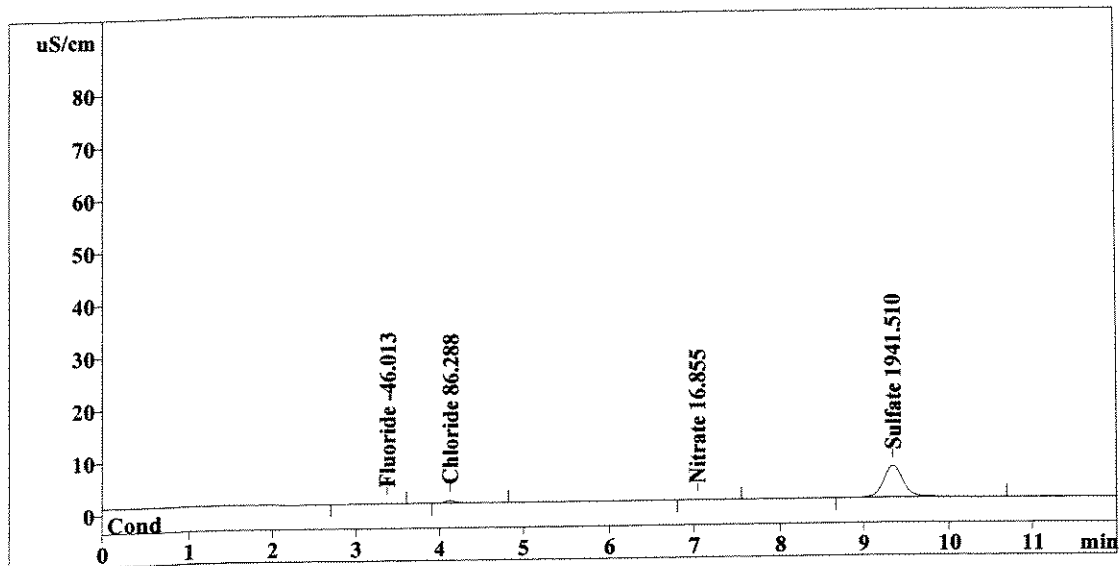
Method 300.0/9056

Report date: 7/10/2008 07:32:02
 Printed by: User
 Ident: 1114380
 Analysis from: 7/10/2008 07:20:03
 File: S7100720.CHW

Last save: 7/10/2008 07:31:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38064
 SAMPLE: S
 Vial number: 50
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.456	-46.013	Fluoride
2	4.12	4.123	86.288	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.04	0.074	16.855	Nitrate
6	9.35	97.367	1941.510	Sulfate
<hr/>				
6	12.00	102.020	2090.666	

OK
7/10/08

259 → 250ml
Extraction

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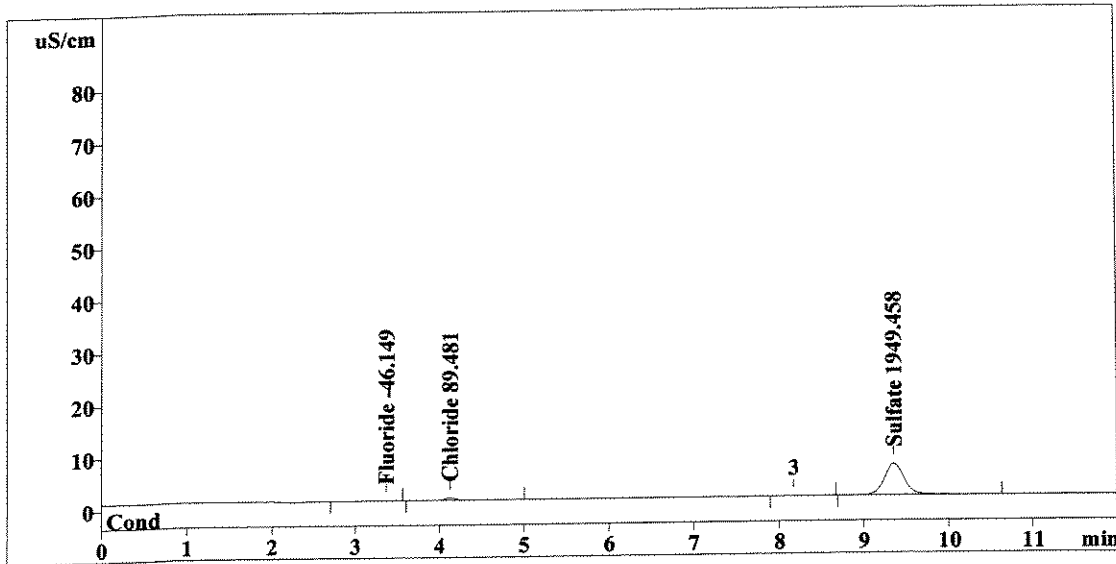
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 07:46:08
 Printed by: User
 Ident: 1114380 DUP
 Analysis from: 7/10/2008 07:34:10
 File: S7100734.CHW

Method 300.0/9056

Last save: 7/10/2008 07:46:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38065
 SAMPLE: S
 Vial number: 51
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.441	-46.149	Fluoride
2	4.12	4.331	89.481	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.36	97.762	1949.458	Sulfate
<hr/>				
6	12.00	102.534	2085.088	

OK
any 7/10/08
259 → 250 mL Extraction

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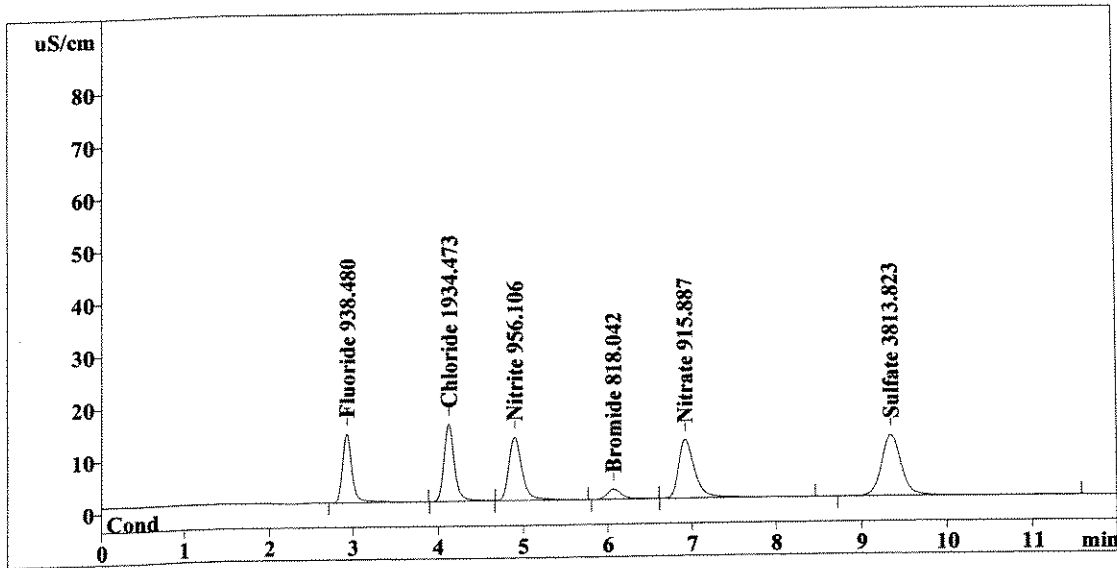
Method 300.0/9056

Report date: 7/10/2008 08:00:14
 Printed by: User
 Ident: 1114380 SPK
 Analysis from: 7/10/2008 07:48:16
 File: S7100748.CHW

Last save: 7/10/2008 08:00:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38066
 SAMPLE: S
 Vial number: 52
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	107.651	938.480	Fluoride
2	4.12	125.012	1934.473	Chloride
3	4.89	130.631	956.106	Nitrite
4	6.07	22.449	818.042	Bromide
5	6.91	149.605	915.887	Nitrate
6	9.35	190.233	3813.823	Sulfate
<hr/>				
6	12.00	725.581	9376.810	

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*25g → 250ml
 extraction*

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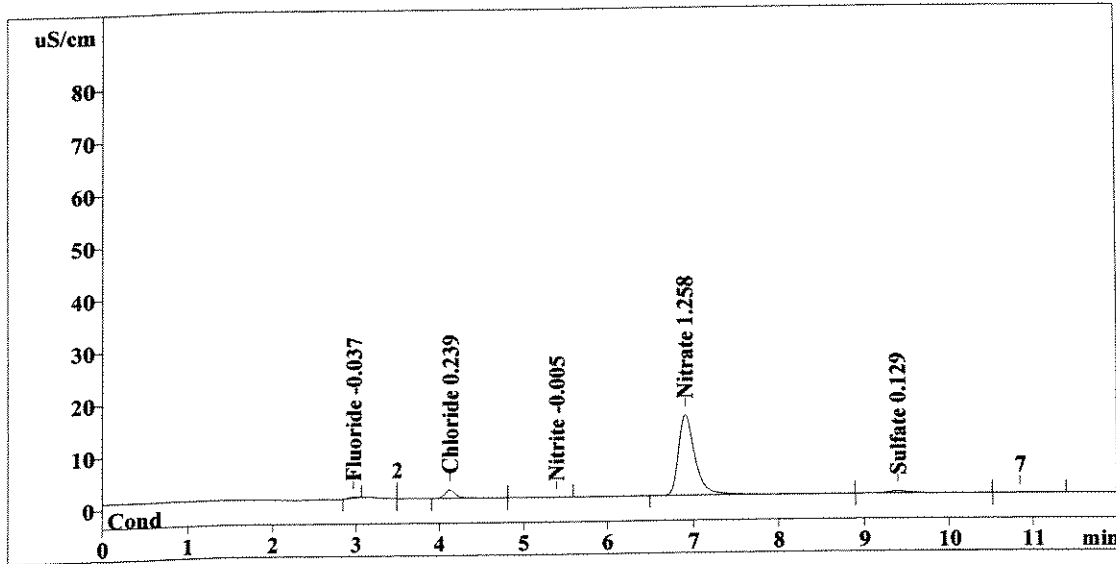
Method 300.0/9056

Report date: 7/10/2008 08:14:20
 Printed by: User
 Ident: SPLP METHOD BLANK
 Analysis from: 7/10/2008 08:02:22
 File: S7100802.CHW

Last save: 7/10/2008 08:14:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38067
 SAMPLE: CS
 Vial number: 53
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	1.444	-0.037	Fluoride
2	4.12	14.143	0.239	Chloride
3	5.40	0.103	-0.005	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.90	206.444	1.258	Nitrate
6	9.40	7.472	0.129	Sulfate
6	12.00	229.605	1.668	

HIGH (next to row 2)
OK (next to row 6)
CV 7/10/08 (handwritten signature)

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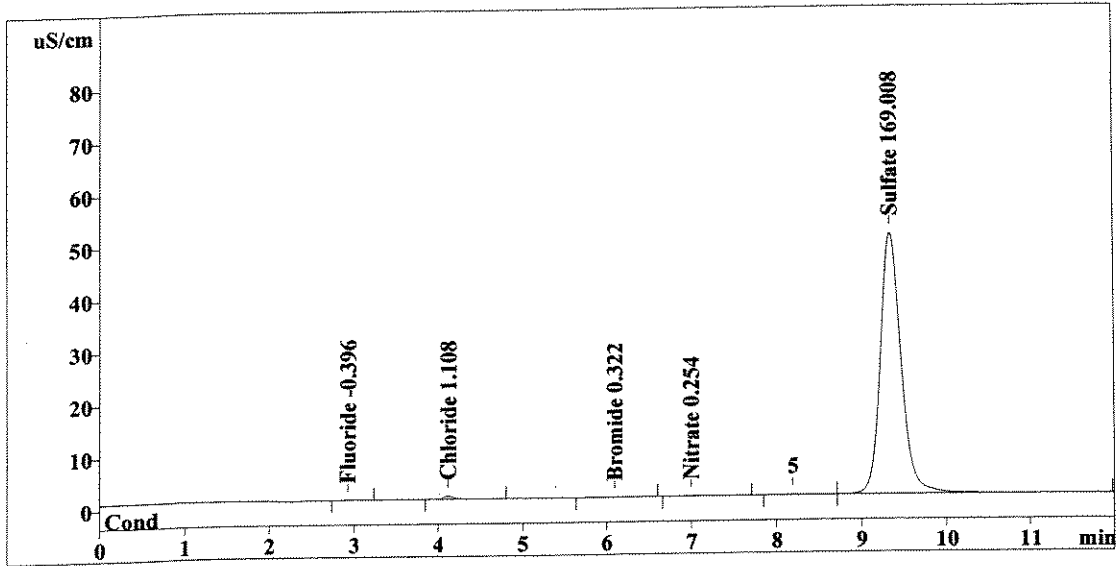
Method 300.0/9056

Report date: 7/10/2008 08:28:27
 Printed by: User
 Ident: 1110349
 Analysis from: 7/10/2008 08:16:28
 File: S7100816.CHW

Last save: 7/10/2008 08:28:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38068
 SAMPLE: C
 Vial number: 54
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	1.159	-0.396	Fluoride
2	4.11	5.723	1.108	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.09	0.231	0.322	Bromide
5	7.00	1.492	0.254	Nitrate
6	9.34	839.336	169.008	Sulfate
6	12.00	847.941	171.086	

Handwritten notes: 'mpts in' next to the 2nd-5th rows, and a signature 'G/M 7/10/08' next to the 6th row.

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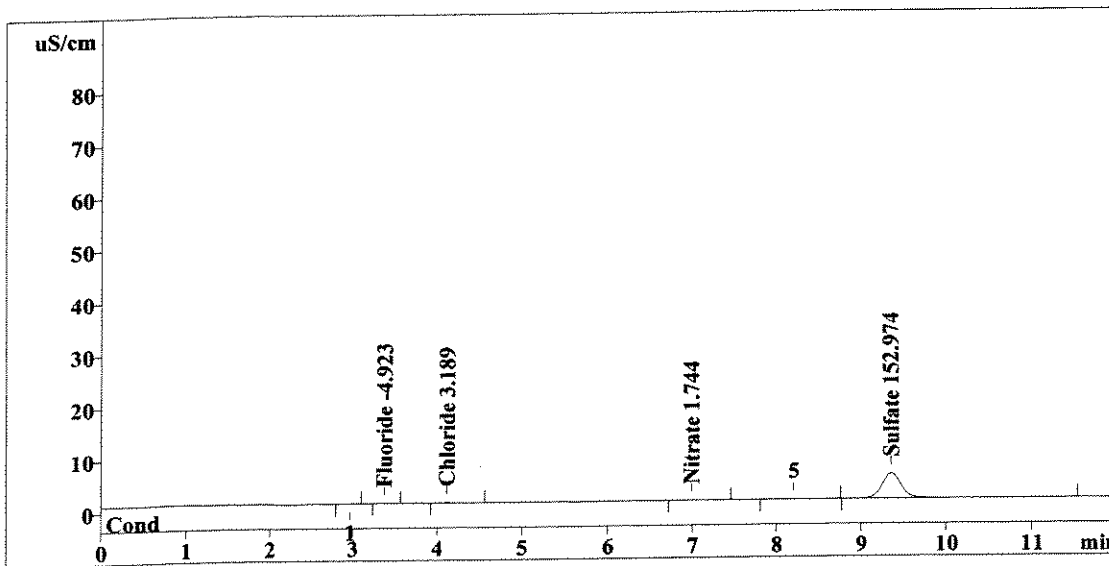
Method 300.0/9056

Report date: 7/10/2008 08:42:32
 Printed by: User
 Ident: 1110349
 Analysis from: 7/10/2008 08:30:34
 File: S7100830.CHW

Last save: 7/10/2008 08:42:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38069
 SAMPLE: S
 Vial number: 55
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.106	-4.923	Fluoride
2	4.11	0.564	3.189	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.99	0.172	1.744	Nitrate
6	9.36	76.944	152.974	Sulfate
6	12.00	77.786	162.830	

OK
7/10/08

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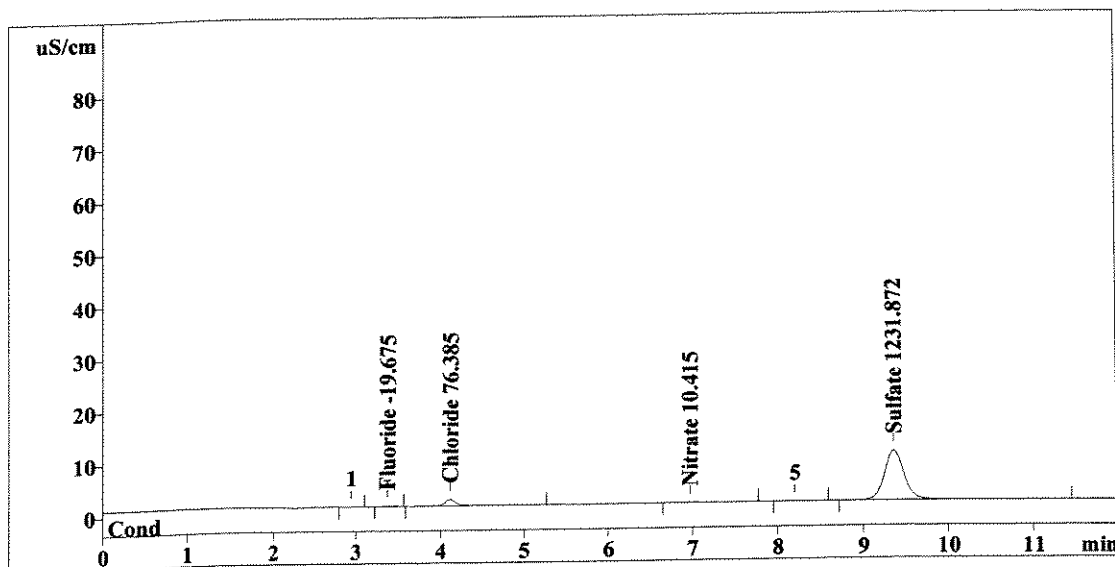
Method 300.0/9056

Report date: 7/10/2008 08:56:39
 Printed by: User
 Ident: 1105436
 Analysis from: 7/10/2008 08:44:40
 File: S7100844.CHW

Last save: 7/10/2008 08:56:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38070
 SAMPLE: S
 Vial number: 56
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.110	-19.675	Fluoride
2	4.11	10.969	76.385	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.97	1.602	10.415	Nitrate
6	9.36	153.820	1231.872	Sulfate
<hr/>				
6	12.00	166.500	1338.347	

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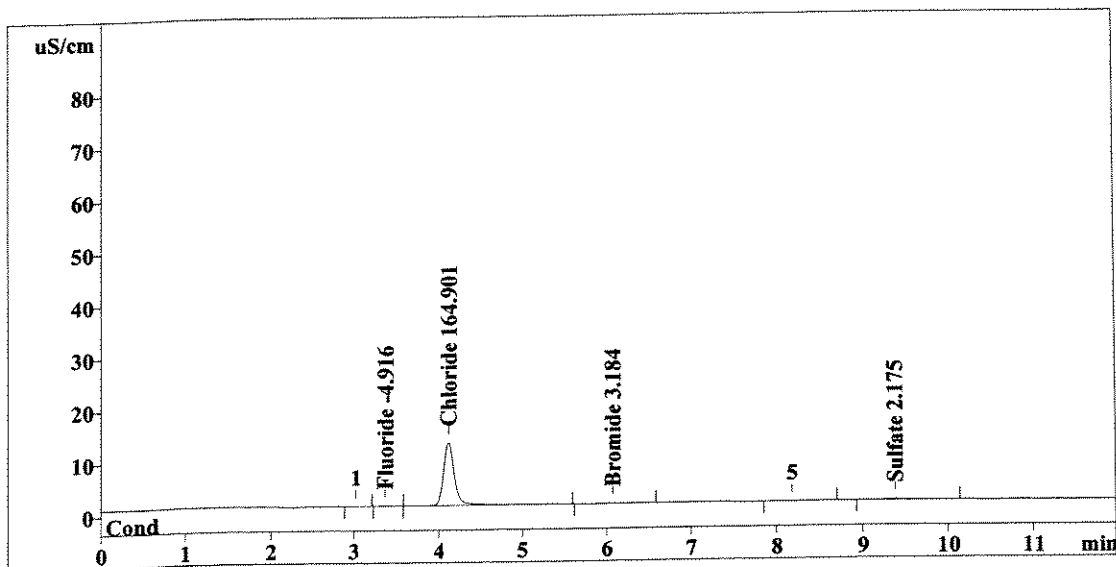
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 09:10:45
 Printed by: User
 Ident: 1114080
 Analysis from: 7/10/2008 08:58:47
 File: S7100858.CHW

Method 300.0/9056

Last save: 7/10/2008 09:10:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38071
 SAMPLE: C
 Vial number: 57
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.113	-4.916	Fluoride
2	4.11	106.339	164.901	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.07	0.222	3.184	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.38	2.149	2.175	Sulfate
6	12.00	108.823	175.176	

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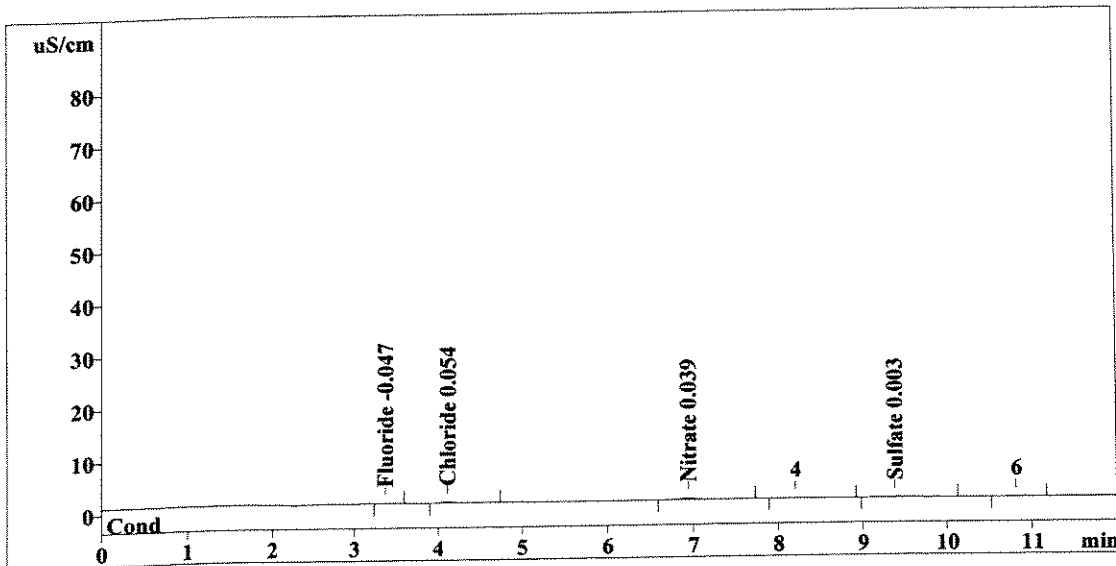
Method 300.0/9056

Report date: 7/10/2008 09:24:51
 Printed by: User
 Ident: METHOD BLANK 7/2
 Analysis from: 7/10/2008 09:12:53
 File: S7100912.CHW

Last save: 7/10/2008 09:24:45

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38072
 SAMPLE: CNNS
 Vial number: 58
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.387	-0.047	Fluoride
2	4.11	1.998	0.054	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.94	3.679	0.039	Nitrate
6	9.39	1.214	0.003	Sulfate
<hr/>				
6	12.00	7.278	0.142	

OK
 ↓
CV 7/10/08

*25g → 250mLs
 Extraction*

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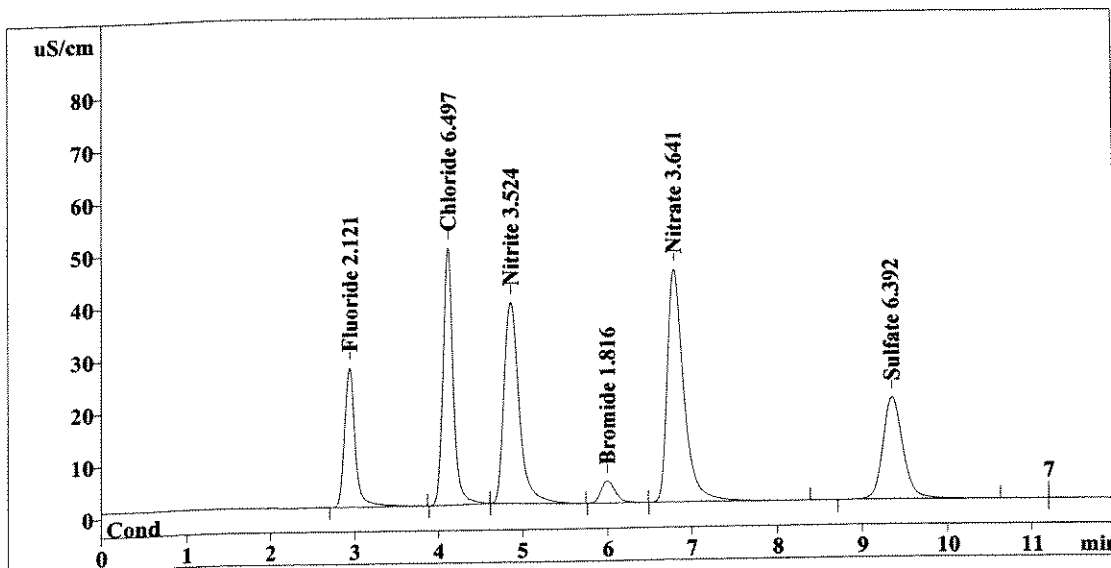
Method 300.0/9056

Report date: 7/10/2008 09:38:57
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 09:26:59
 File: S7100926.CHW

Last save: 7/10/2008 09:38:51

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38073
 SAMPLE:
 Vial number: 59
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	236.374	2.121	Fluoride
2	4.10	423.450	6.497	Chloride
3	4.85	479.597	3.524	Nitrite
4	6.00	50.669	1.816	Bromide
5	6.79	602.783	3.641	Nitrate
6	9.36	318.111	6.392	Sulfate
<hr/>				
6	12.00	2110.985	23.991	

OK
 ↓
 CW
 7/10/08

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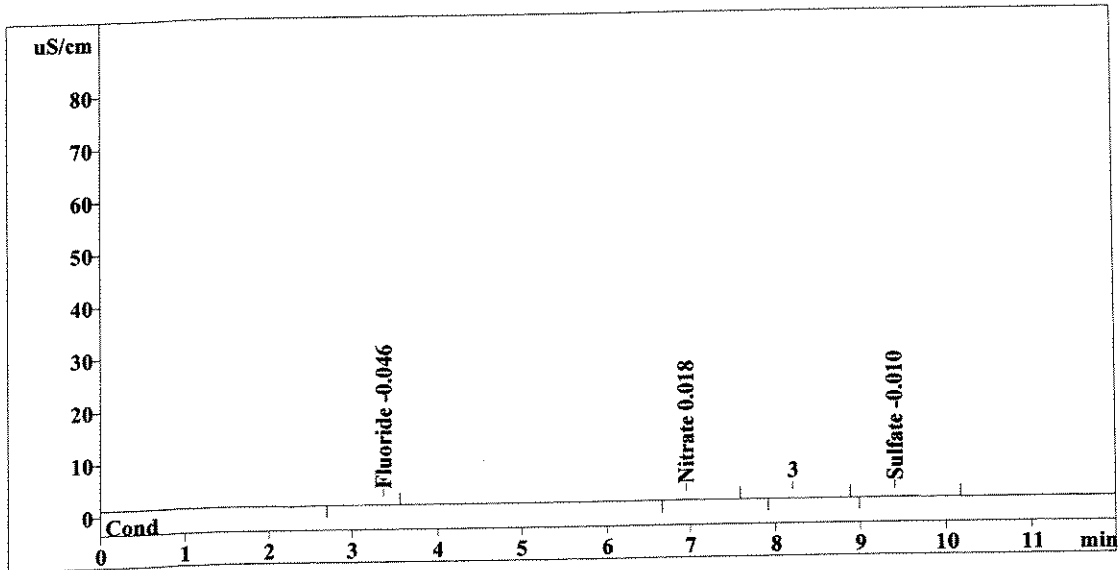
Method 300.0/9056

Report date: 7/10/2008 09:53:03
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 09:41:05
 File: S7100941.CHW

Last save: 7/10/2008 09:52:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38074
 SAMPLE:
 Vial number: 60
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.416	-0.046	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.95	0.195	0.018	Nitrate
6	9.41	0.570	-0.010	Sulfate
<hr/>				
6	12.00	1.180	0.074	

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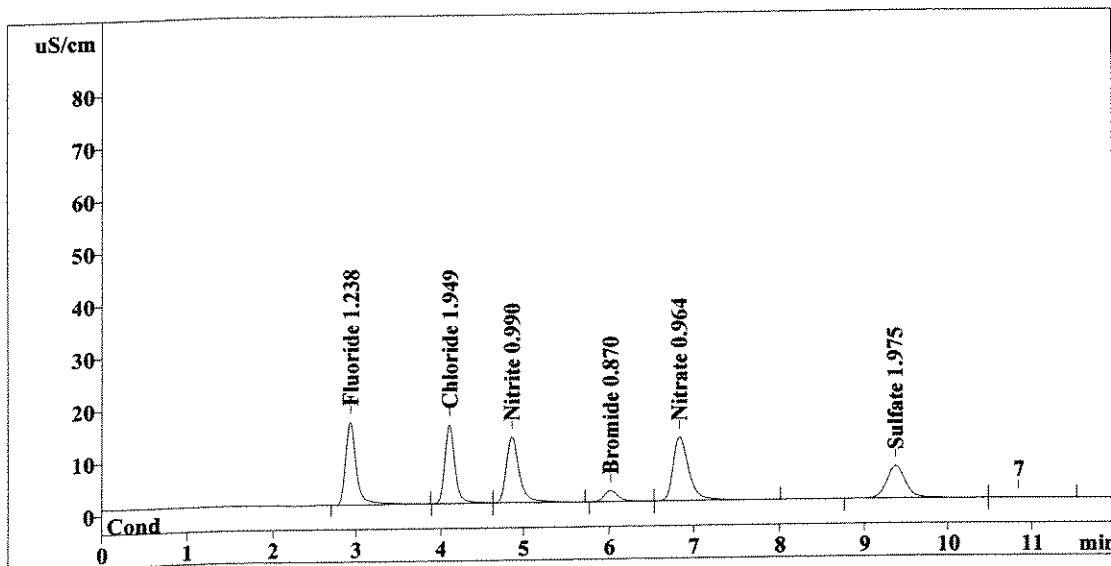
Handwritten signature and date: 7/10/08

Report date: 7/10/2008 10:07:09
 Printed by: User
 Ident: LCS
 Analysis from: 7/10/2008 09:55:11
 File: S7100955.CHW

Last save: 7/10/2008 10:07:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38075
 SAMPLE:
 Vial number: 61
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	140.259	1.238	Fluoride
2	4.10	125.944	1.949	Chloride
3	4.86	135.280	0.990	Nitrite
4	6.02	23.929	0.870	Bromide
5	6.83	157.605	0.964	Nitrate
6	9.38	99.016	1.975	Sulfate
6	12.00	682.032	7.986	

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WJ
 7/10/08

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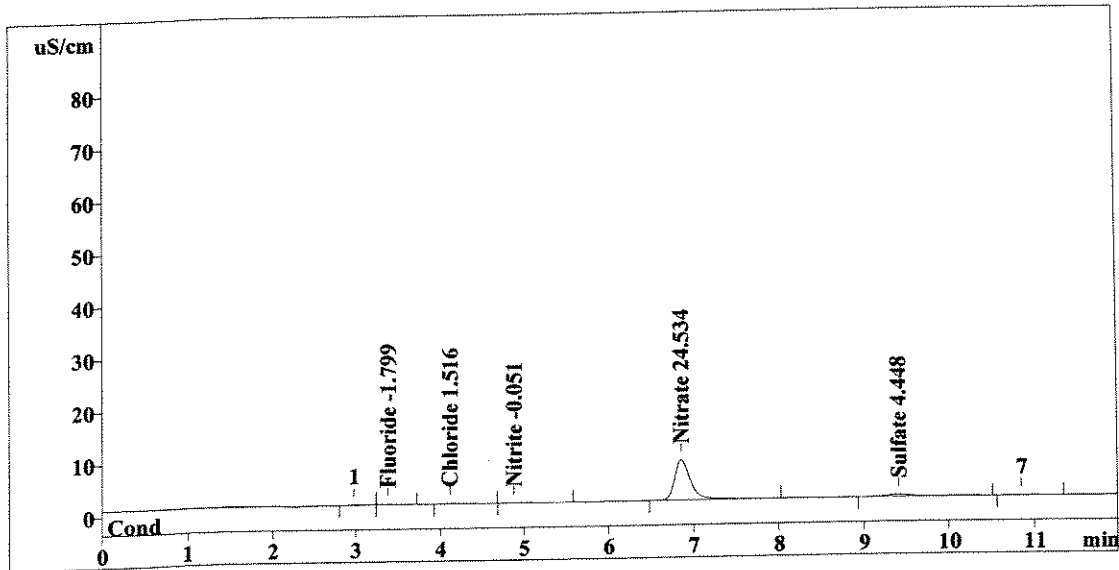
Method 300.0/9056

Report date: 7/10/2008 10:21:15
 Printed by: User
 Ident: LNAQ0701
 Analysis from: 7/10/2008 10:09:17
 File: S7101009.CHW

Last save: 7/10/2008 10:21:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38076
 SAMPLE: BTU
 Vial number: 113
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	0.570	-1.799	Fluoride
2	4.11	0.957	1.516	Chloride
3	4.87	0.551	-0.051	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.85	99.287	24.534	Nitrate
6	9.42	6.585	4.448	Sulfate
<hr/>				
6	12.00	107.950	32.348	

OK
7/10/08

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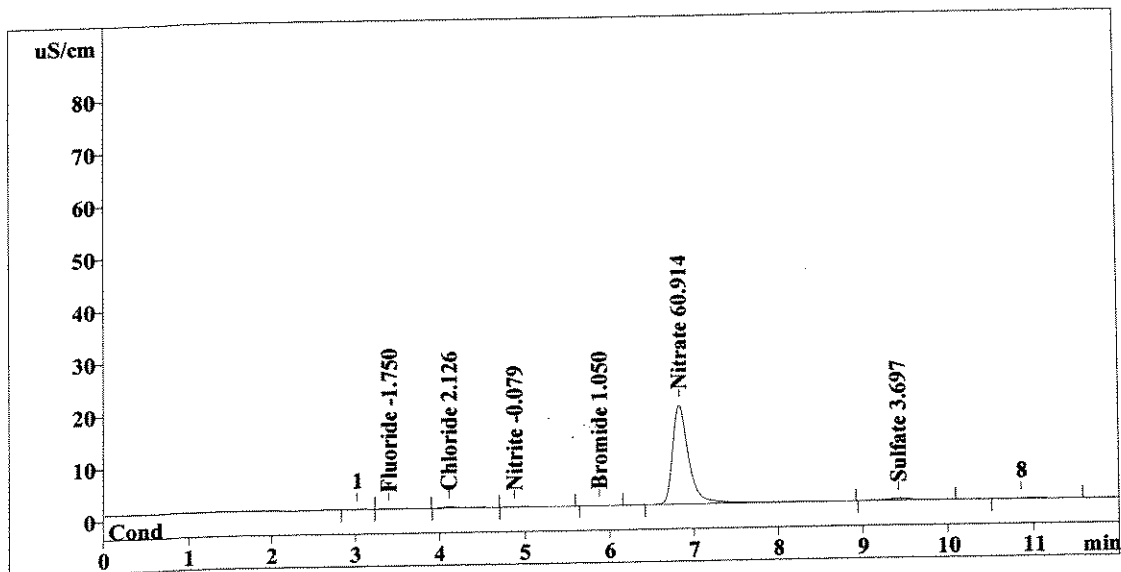
Method 300.0/9056

Report date: 7/10/2008 10:35:21
 Printed by: User
 Ident: 1111733A
 Analysis from: 7/10/2008 10:23:23
 File: S7101023.CHW

Last save: 7/10/2008 10:35:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38077
 SAMPLE: BTU
 Vial number: 114
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	0.702	-1.750	Fluoride
2	4.11	1.956	2.126	Chloride
3	4.87	0.458	-0.079	Nitrite
4	5.88	0.064	1.050	Bromide
5	6.82	250.558	60.914	Nitrate
6	9.42	5.654	3.697	Sulfate
<hr/>				
6	12.00	259.391	69.616	

OK
CM
7/10/08

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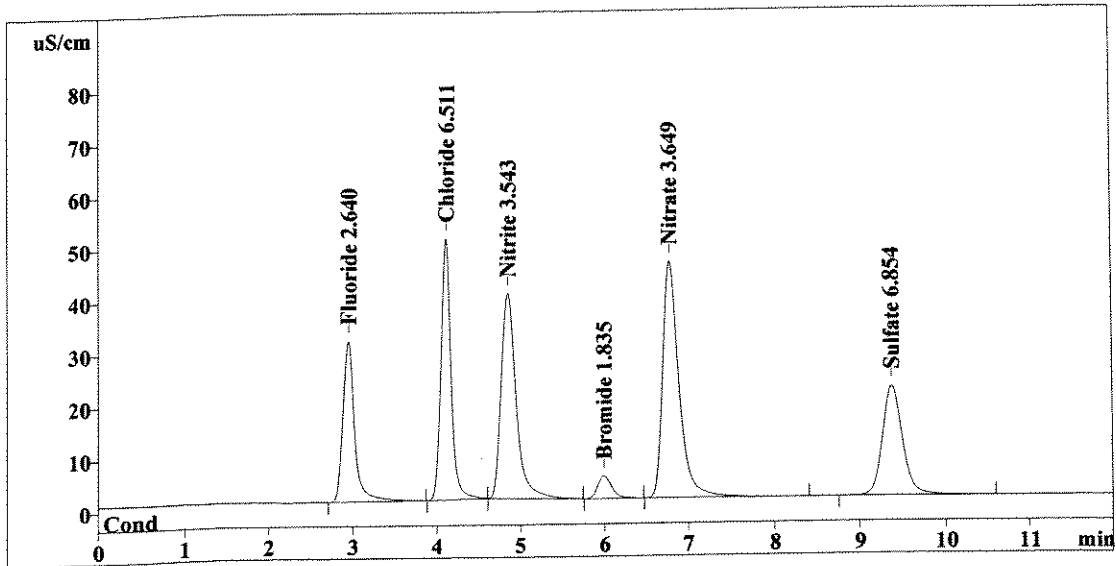
Method 300.0/9056

Report date: 7/10/2008 10:49:27
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 10:37:29
 File: S7101037.CHW

Last save: 7/10/2008 10:49:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38078
 SAMPLE:
 Vial number: 115
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	292.974	2.640	Fluoride
2	4.10	424.340	6.511	Chloride
3	4.84	482.092	3.543	Nitrite
4	5.99	51.214	1.835	Bromide
5	6.78	604.246	3.649	Nitrate
6	9.38	341.038	6.854	Sulfate
<hr/>				
6	12.00	2195.904	25.033	

OUT HIGH
OK
 ↓

CCV
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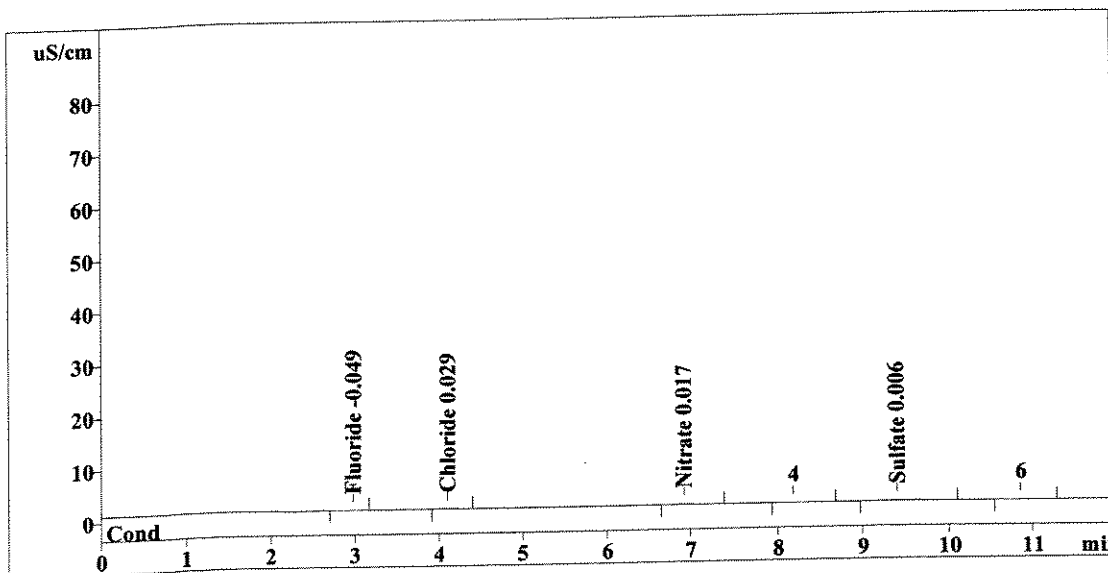
Method 300.0/9056

Report date: 7/10/2008 11:03:33
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 10:51:35
 File: S7101051.CHW

Last save: 7/10/2008 11:03:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38079
 SAMPLE:
 Vial number: 116
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.98	0.174	-0.049	Fluoride
2	4.10	0.403	0.029	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.93	0.170	0.017	Nitrate
6	9.41	1.365	0.006	Sulfate
<hr/>				
6	12.00	2.113	0.101	

Handwritten notes: 'OK' with a checkmark, a downward arrow, and a signature 'C/M 7/10/08'.

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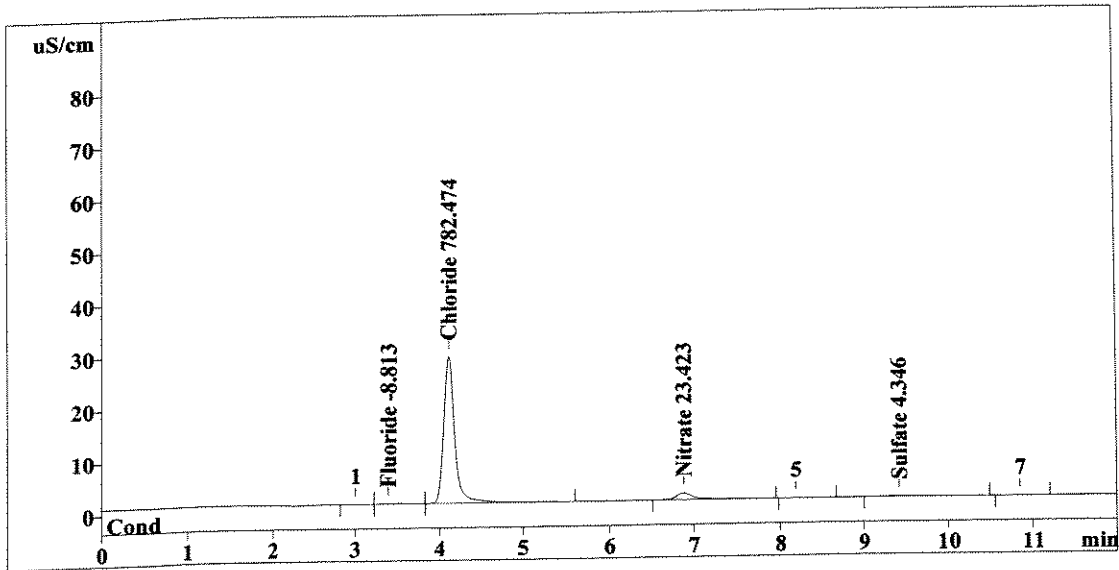
Method 300.0/9056

Report date: 7/10/2008 11:17:40
 Printed by: User
 Ident: 1110602A
 Analysis from: 7/10/2008 11:05:41
 File: S7101105.CHW

Last save: 7/10/2008 11:17:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38080
 SAMPLE: %CL
 Vial number: 69
 Volume: 1.0 µL
 Dilution: 200.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	0.667	-8.813	Fluoride
2	4.10	254.385	782.474	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.88	16.750	23.423	Nitrate
6	9.43	2.147	4.346	Sulfate
<hr/>				
6	12.00	273.950	819.057	

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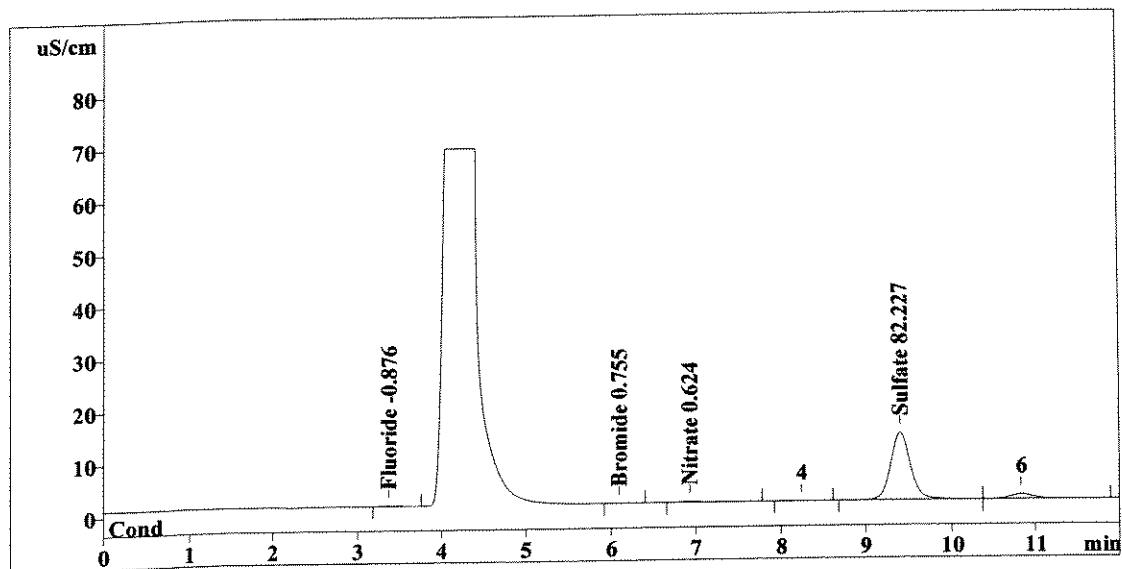
Method 300.0/9056

Report date: 7/10/2008 11:31:45
 Printed by: User
 Ident: 1114366
 Analysis from: 7/10/2008 11:19:47
 File: S7101119.CHW

Last save: 7/10/2008 11:31:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38081
 SAMPLE: EXTRACTION - S
 Vial number: 70
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.695	-0.876	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.10	0.389	0.755	Bromide
5	6.93	2.464	0.624	Nitrate
6	9.40	204.991	82.227	Sulfate
6	12.00	208.538	84.483	

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OK
CM
7/10/08
259 → 250 mL

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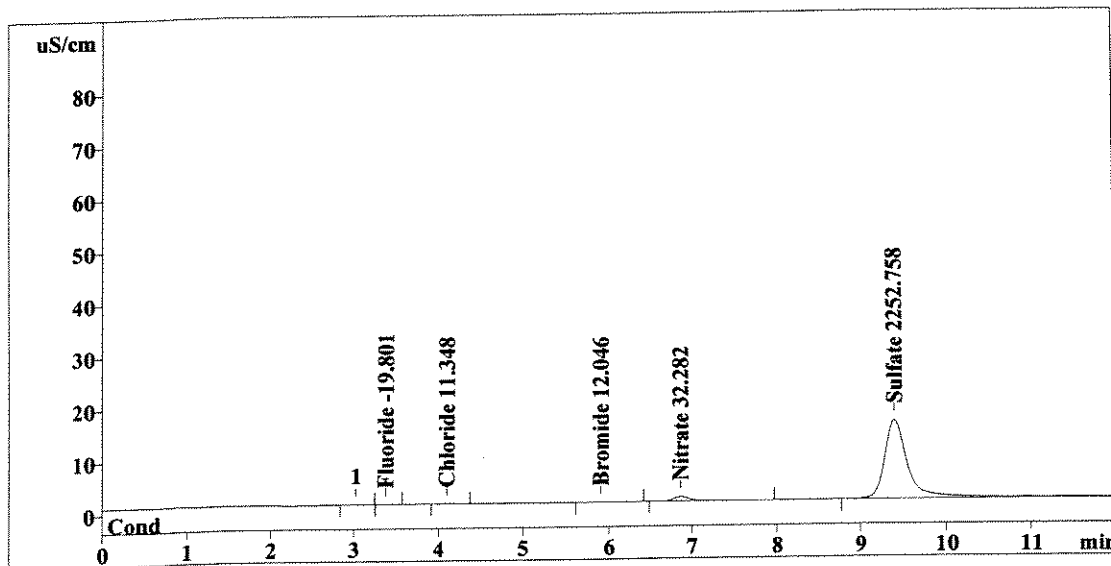
Method 300.0/9056

Report date: 7/10/2008 11:47:18
 Printed by: User
 Ident: 1113050A
 Analysis from: 7/10/2008 11:35:20
 File: S7101135.CHW

Last save: 7/10/2008 11:47:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38082
 SAMPLE: BTU
 Vial number: 137
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.076	-19.801	Fluoride
2	4.10	0.334	11.348	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.173	12.046	Bromide
5	6.87	10.694	32.282	Nitrate
6	9.41	280.408	2252.758	Sulfate
<hr/>				
6	12.00	291.685	2328.234	

OK
CM
7/10/08

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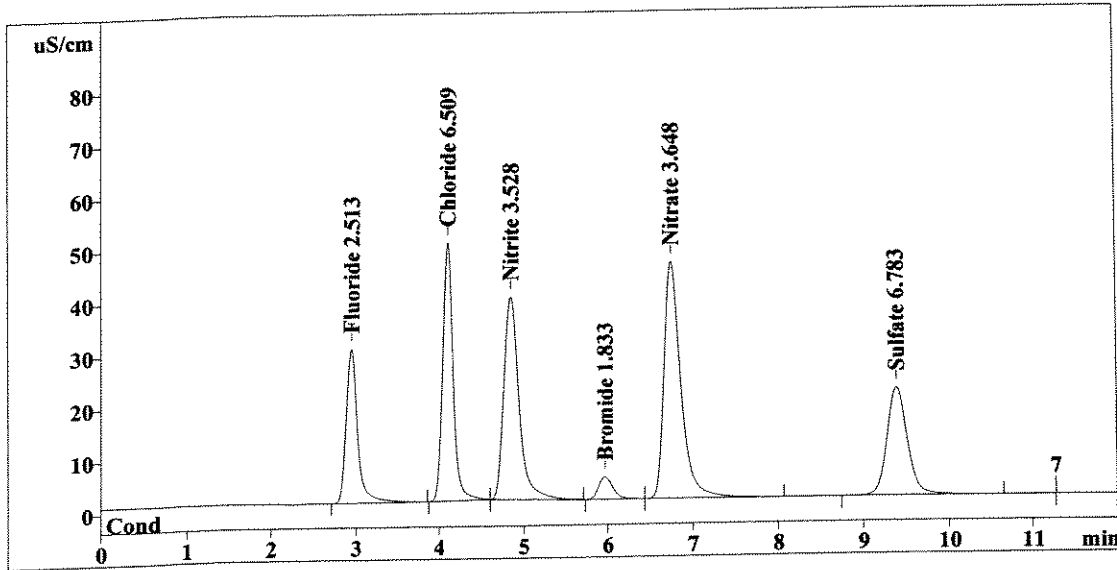
Method 300.0/9056

Report date: 7/10/2008 12:01:24
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 11:49:26
 File: S7101149.CHW

Last save: 7/10/2008 12:01:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38083
 SAMPLE:
 Vial number: 138
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	279.088	2.513	Fluoride
2	4.09	424.242	6.509	Chloride
3	4.83	480.077	3.528	Nitrite
4	5.97	51.149	1.833	Bromide
5	6.75	604.067	3.648	Nitrate
6	9.39	337.510	6.783	Sulfate
6		12.00	2176.132	24.815

Handwritten notes: "OUT H1011" and "OK" are written next to the first two rows. A downward arrow points from the third row to the fourth row. A signature and date "7/10/08" are written at the bottom of the table.

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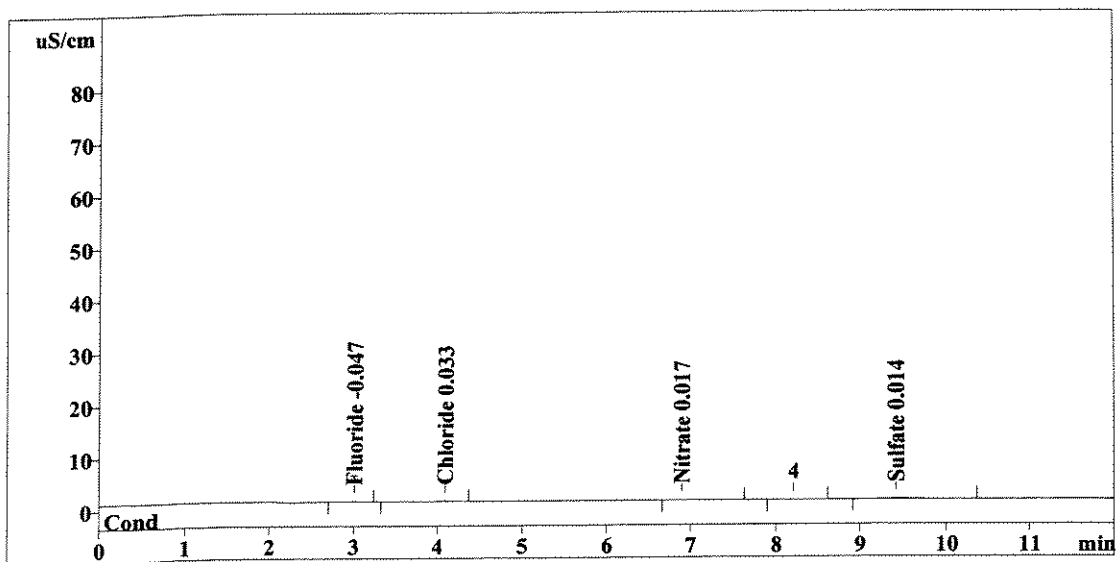
Method 300.0/9056

Report date: 7/10/2008 12:15:30
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 12:03:32
 File: S7101203.CHW

Last save: 7/10/2008 12:15:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38084
 SAMPLE:
 Vial number: 139
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.00	0.380	-0.047	Fluoride
2	4.09	0.658	0.033	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.90	0.107	0.017	Nitrate
6	9.42	1.779	0.014	Sulfate
6	12.00	2.924	0.111	

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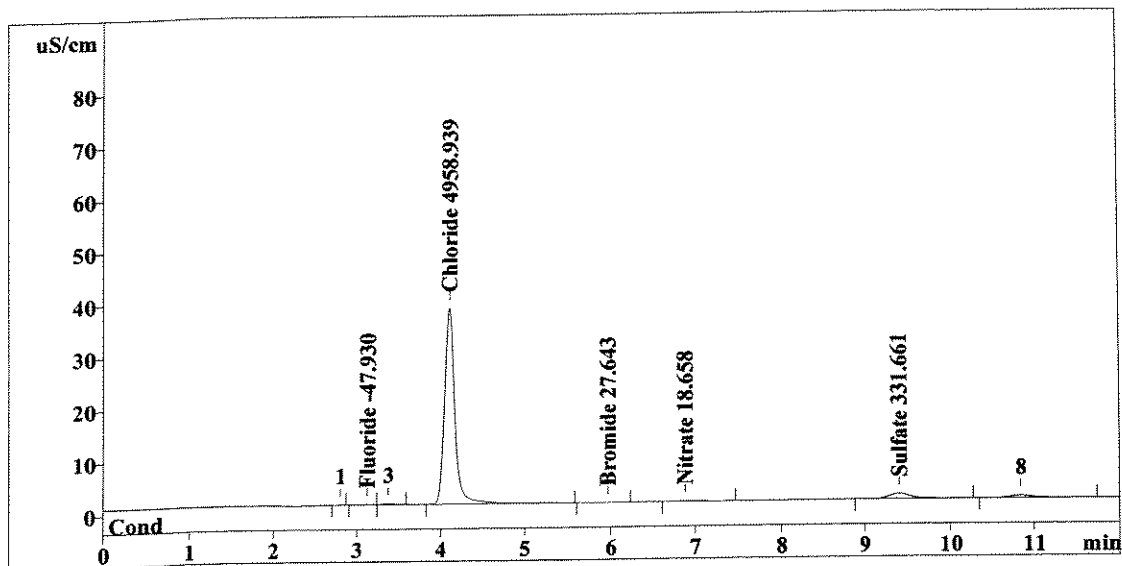
Method 300.0/9056

Report date: 7/10/2008 12:29:36
 Printed by: User
 Ident: 1114376
 Analysis from: 7/10/2008 12:17:38
 File: S7101217.CHW

Last save: 7/10/2008 12:29:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38085
 SAMPLE: C
 Vial number: 71
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.12	0.247	-47.930	Fluoride
2	4.09	322.841	4958.939	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.103	27.643	Bromide
5	6.88	0.374	18.658	Nitrate
6	9.41	17.520	331.661	Sulfate
6	12.00	341.084	5384.830	

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Handwritten: 25g → 250ml

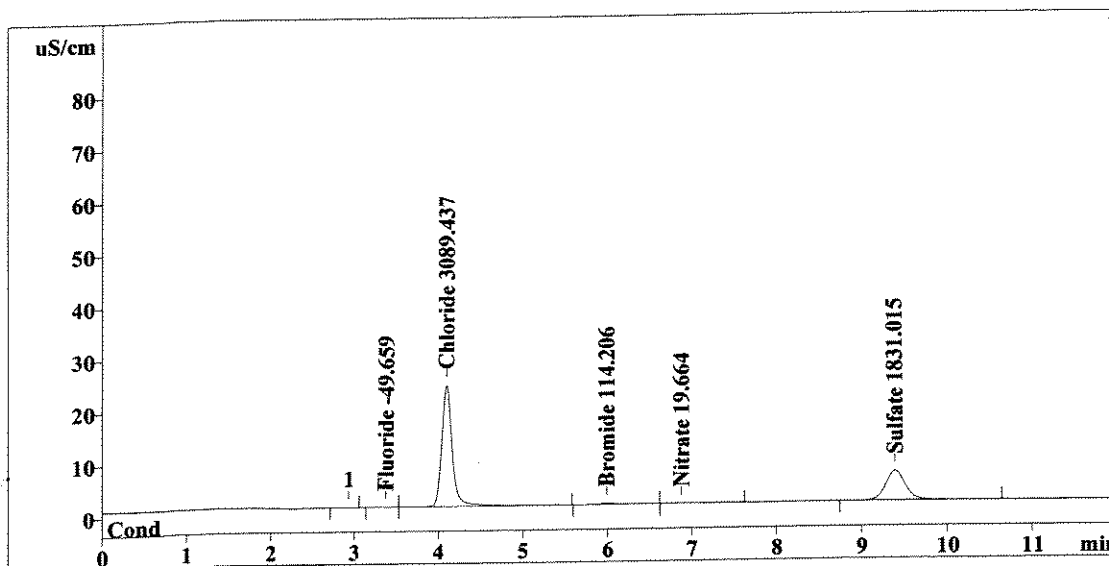
Ion Chromatography Analytical Report
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 Report date: 7/10/2008 12:43:42
 Printed by: User
 Ident: 1111265
 Analysis from: 7/10/2008 12:31:44
 File: S7101231.CHW

Method 300.0/9056

Last save: 7/10/2008 12:43:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38086
 SAMPLE: C
 Vial number: 72
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.059	-49.659	Fluoride
2	4.09	200.557	3089.437	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	2.551	114.206	Bromide
5	6.87	0.541	19.664	Nitrate
6	9.40	91.887	1831.015	Sulfate
<hr/>				
6	12.00	295.594	5103.980	

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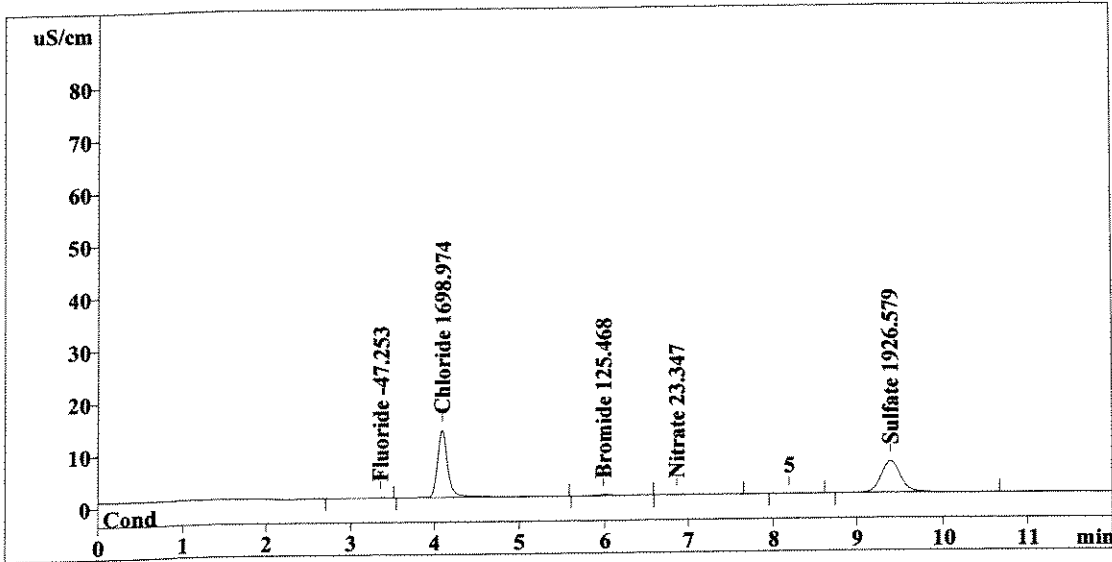
Method 300.0/9056

Report date: 7/10/2008 12:57:49
 Printed by: User
 Ident: 1111267
 Analysis from: 7/10/2008 12:45:50
 File: S7101245.CHW

Last save: 7/10/2008 12:57:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38087
 SAMPLE: C
 Vial number: 73
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.320	-47.253	Fluoride
2	4.09	109.608	1698.974	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	2.869	125.468	Bromide
5	6.86	1.154	23.347	Nitrate
6	9.40	96.627	1926.579	Sulfate
<hr/>				
6	12.00	210.578	3821.621	

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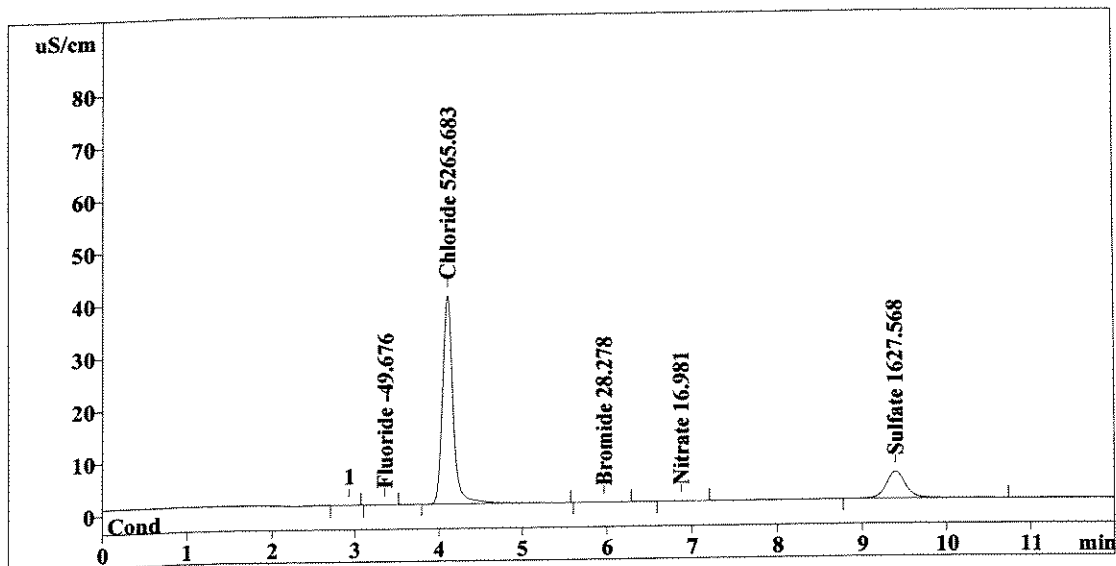
Method 300.0/9056

Report date: 7/10/2008 13:11:55
 Printed by: User
 Ident: 1111765
 Analysis from: 7/10/2008 12:59:56
 File: S7101259.CHW

Last save: 7/10/2008 13:11:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38088
 SAMPLE: C
 Vial number: 74
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.057	-49.676	Fluoride
2	4.09	342.905	5265.683	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	0.121	28.278	Bromide
5	6.87	0.095	16.981	Nitrate
6	9.40	81.796	1627.568	Sulfate
6	12.00	424.974	6988.186	

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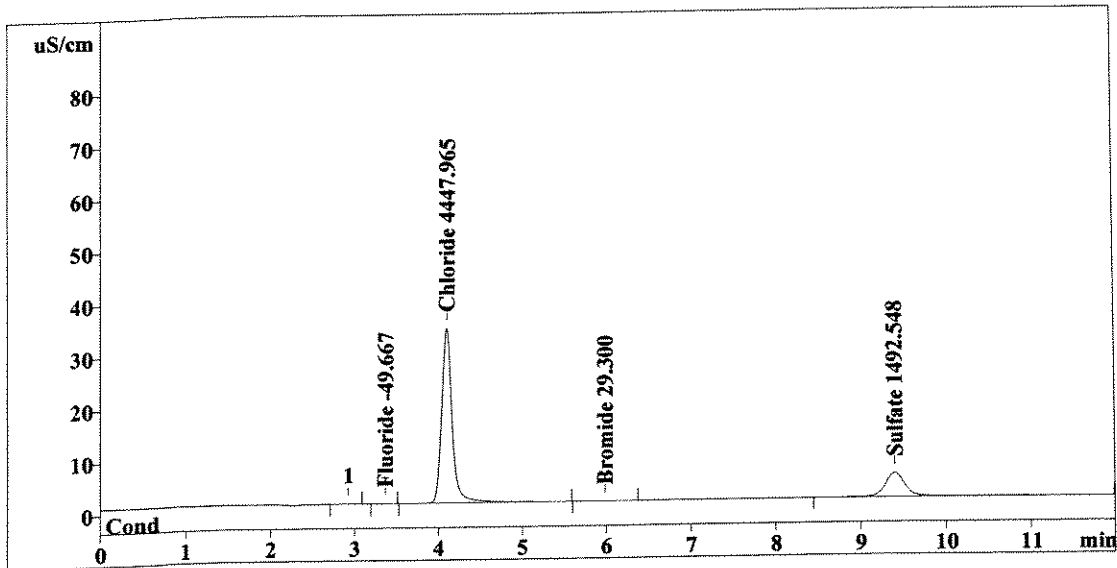
Method 300.0/9056

Report date: 7/10/2008 13:26:01
 Printed by: User
 Ident: 1112486
 Analysis from: 7/10/2008 13:14:02
 File: S7101314.CHW

Last save: 7/10/2008 13:25:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38089
 SAMPLE: C
 Vial number: 75
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.058	-49.667	Fluoride
2	4.09	289.418	4447.965	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.150	29.300	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.40	75.099	1492.548	Sulfate
<hr/>				
6	12.00	364.725	6019.480	

OK
7/10/08

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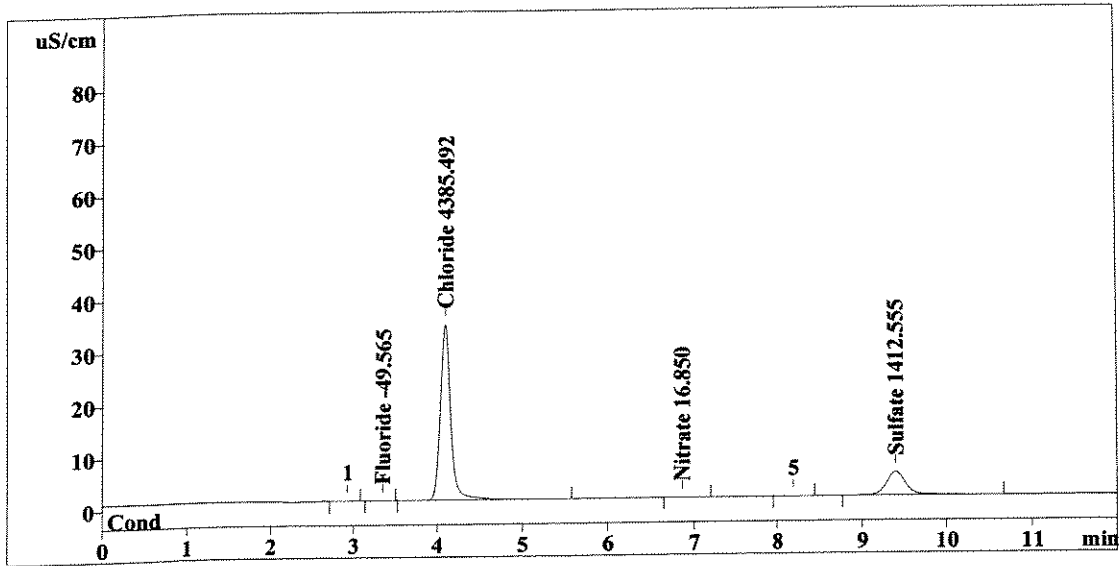
Method 300.0/9056

Report date: 7/10/2008 13:40:07
 Printed by: User
 Ident: 1112486 DUP
 Analysis from: 7/10/2008 13:28:08
 File: S7101328.CHW

Last save: 7/10/2008 13:39:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38090
 SAMPLE: C
 Vial number: 76
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.069	-49.565	Fluoride
2	4.09	285.332	4385.492	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.86	0.073	16.850	Nitrate
6	9.40	71.131	1412.555	Sulfate
<hr/>				
6	12.00	356.605	5864.462	

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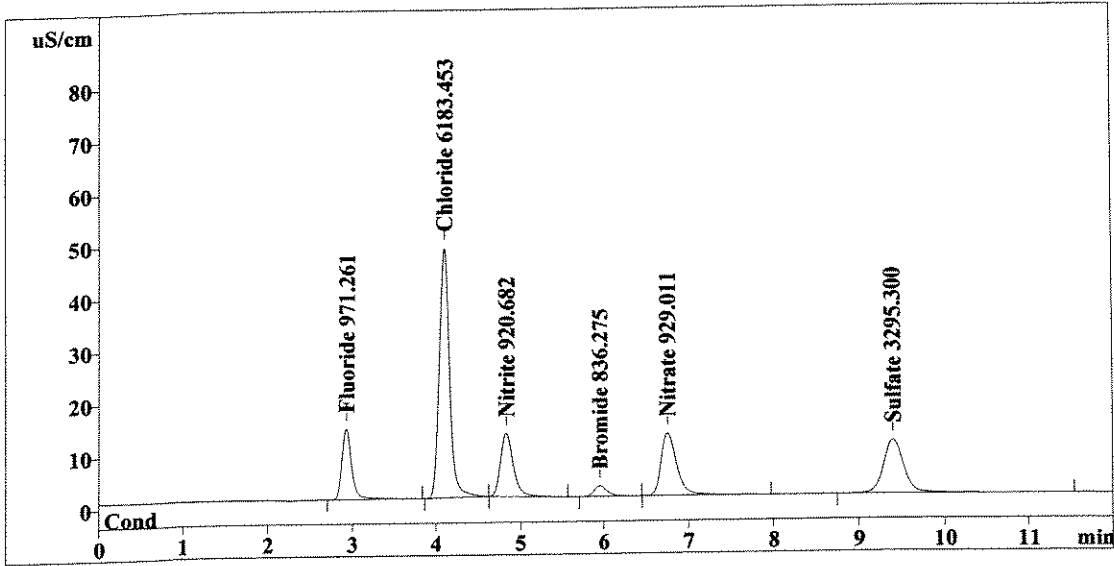
Method 300.0/9056

Report date: 7/10/2008 13:54:13
 Printed by: User
 Ident: 1112486 SPK
 Analysis from: 7/10/2008 13:42:14
 File: S7101342.CHW

Last save: 7/10/2008 13:54:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38091
 SAMPLE: C
 Vial number: 77
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	111.221	971.261	Fluoride
2	4.09	402.935	6183.453	Chloride
3	4.83	125.818	920.682	Nitrite
4	5.95	22.965	836.275	Bromide
5	6.75	151.788	929.011	Nitrate
6	9.40	164.514	3295.300	Sulfate
<hr/>				
6	12.00	979.242	13135.983	

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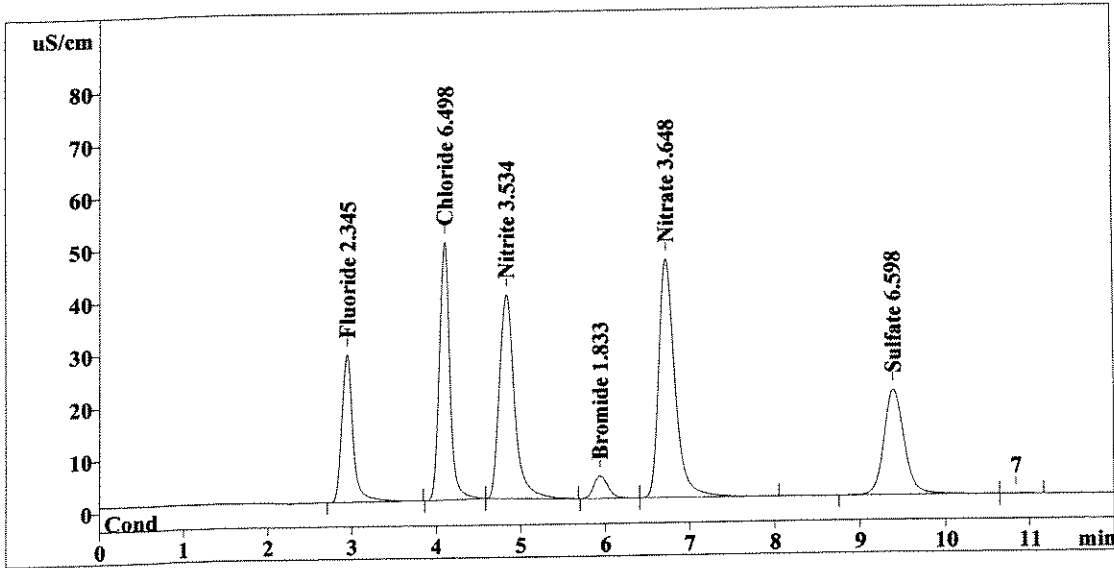
Method 300.0/9056

Report date: 7/10/2008 14:08:19
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 13:56:21
 File: S7101356.CHW

Last save: 7/10/2008 14:08:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38092
 SAMPLE:
 Vial number: 78
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	260.791	2.345	Fluoride
2	4.08	423.536	6.498	Chloride
3	4.82	480.956	3.534	Nitrite
4	5.93	51.140	1.833	Bromide
5	6.71	603.993	3.648	Nitrate
6	9.40	328.344	6.598	Sulfate
<hr/>				
6	12.00	2148.760	24.457	

Handwritten notes: "OUT HIGH" and "OK" with an arrow pointing to the Bromide peak. A signature and date "7/10/08" are written below the table.

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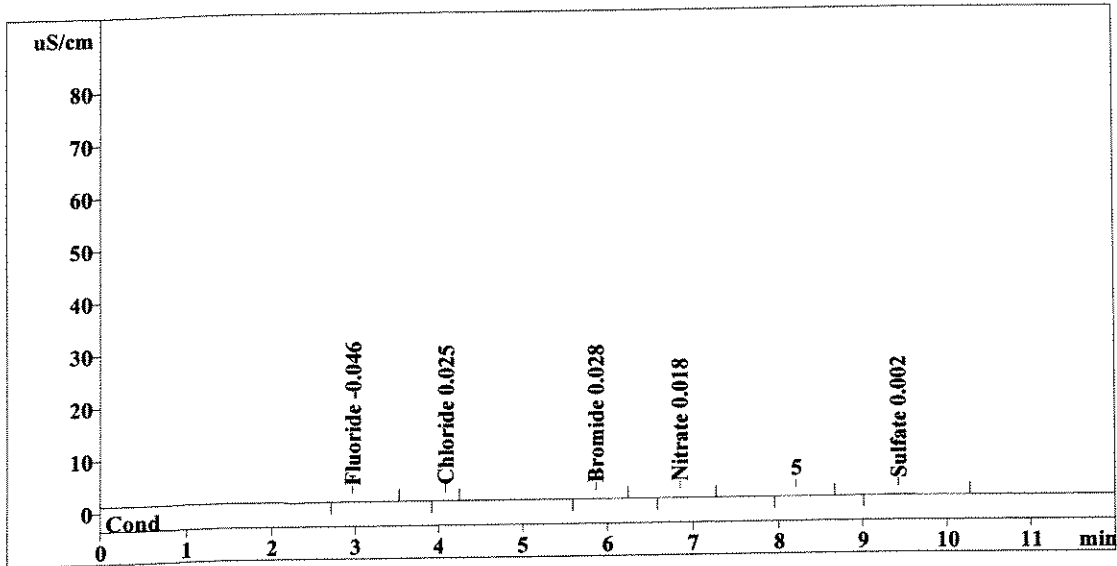
Method 300.0/9056

Report date: 7/10/2008 14:22:25
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 14:10:27
 File: S7101410.CHW

Last save: 7/10/2008 14:22:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38093
 SAMPLE:
 Vial number: 79
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.97	0.422	-0.046	Fluoride
2	4.08	0.111	0.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.86	0.115	0.028	Bromide
5	6.85	0.275	0.018	Nitrate
6	9.43	1.152	0.002	Sulfate
<hr/>				
6	12.00	2.076	0.119	

Handwritten notes: 'OK' next to peak 1, a downward arrow next to peak 5, and a signature 'C 7/10/08' below the table.

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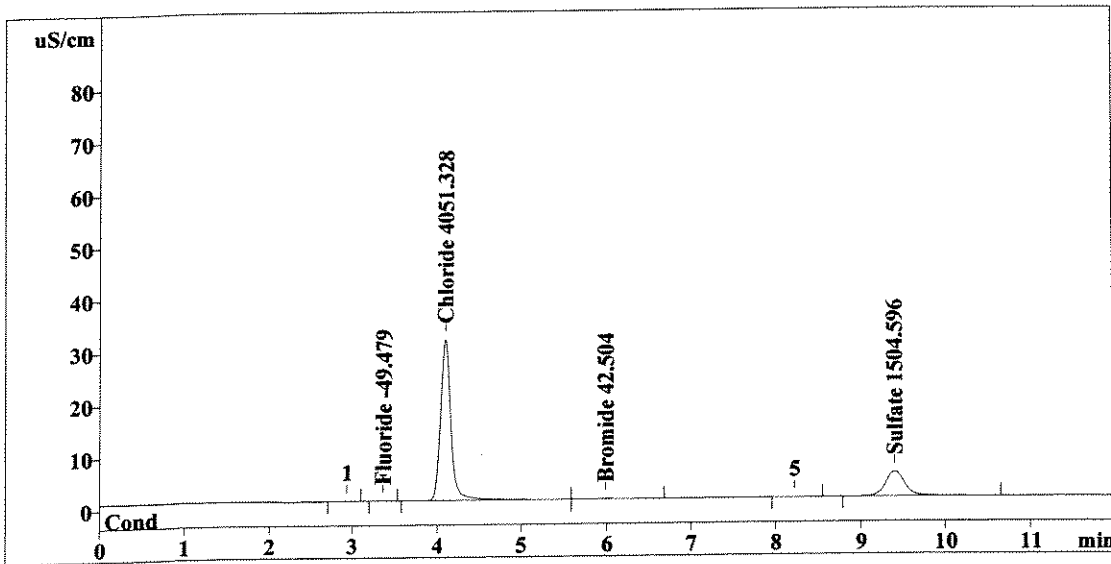
Method 300.0/9056

Report date: 7/10/2008 14:36:31
 Printed by: User
 Ident: 1112487
 Analysis from: 7/10/2008 14:24:33
 File: S7101424.CHW

Last save: 7/10/2008 14:36:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38094
 SAMPLE: C
 Vial number: 80
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.078	-49.479	Fluoride
2	4.09	263.474	4051.328	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.523	42.504	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.41	75.697	1504.596	Sulfate
6	12.00	339.772	5647.906	

CM
 7/10/08

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 Rochester, NY 14609

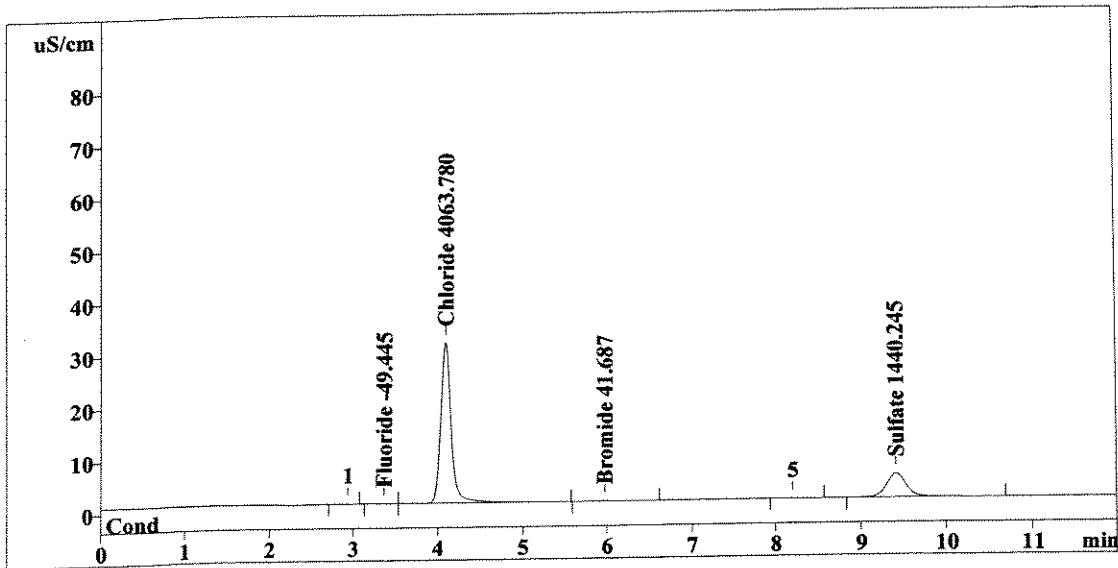
Method 300.0/9056

Report date: 7/10/2008 14:50:37
 Printed by: User
 Ident: 1112487 DUP
 Analysis from: 7/10/2008 14:38:38
 File: S7101438.CHW

Last save: 7/10/2008 14:50:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38095
 SAMPLE: C
 Vial number: 81
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.082	-49.445	Fluoride
2	4.08	264.289	4063.780	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.500	41.687	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.41	72.505	1440.245	Sulfate
6	12.00	337.376	5595.156	

OK

WTP/S

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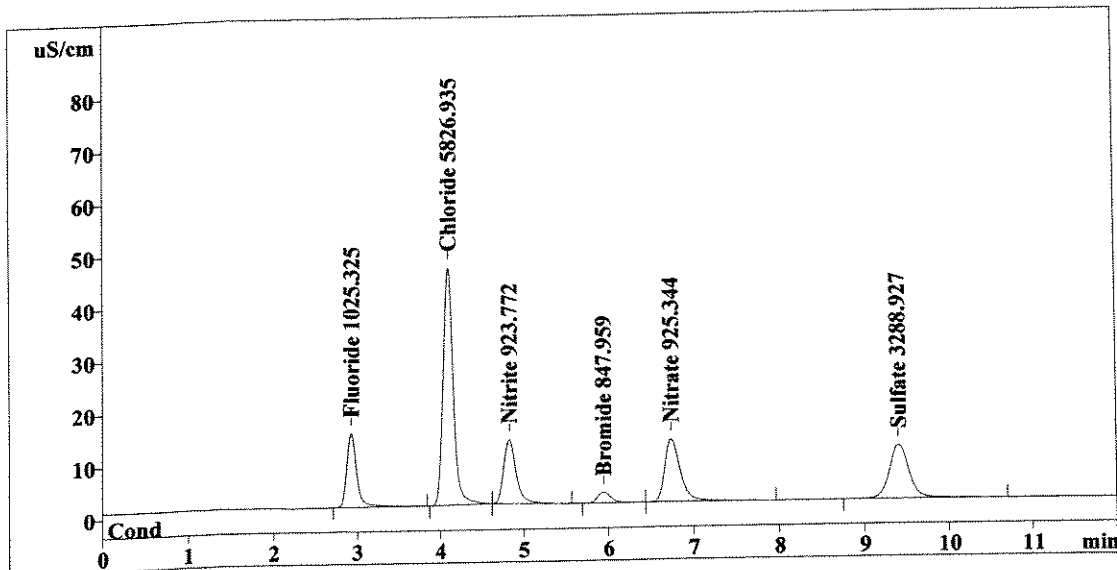
Method 300.0/9056

Report date: 7/10/2008 15:04:43
 Printed by: User
 Ident: 1112487 SPK
 Analysis from: 7/10/2008 14:52:44
 File: S7101452.CHW

Last save: 7/10/2008 15:04:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38096
 SAMPLE: C
 Vial number: 82
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	117.108	1025.325	Fluoride
2	4.08	379.616	5826.935	Chloride
3	4.82	126.238	923.772	Nitrite
4	5.94	23.295	847.959	Bromide
5	6.74	151.178	925.344	Nitrate
6	9.40	164.198	3288.927	Sulfate
6		12.00	961.633	12838.262

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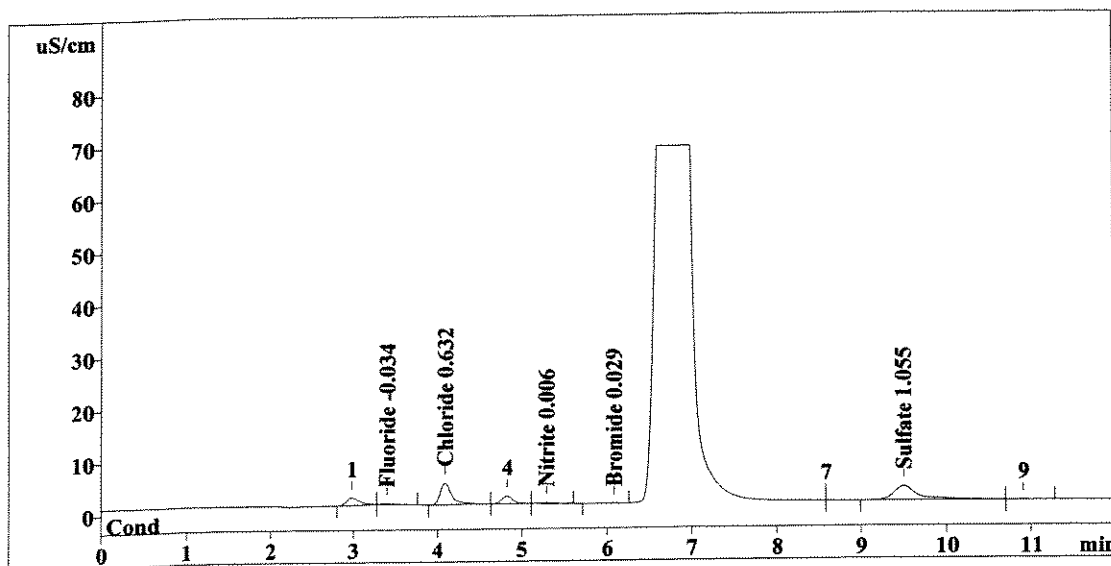
Method 300.0/9056

Report date: 7/10/2008 15:18:49
 Printed by: User
 Ident: BLK0710
 Analysis from: 7/10/2008 15:06:51
 File: S7101506.CHW

Last save: 7/10/2008 15:18:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38097
 SAMPLE:
 Vial number: 119
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.40	1.733	-0.034	Fluoride
2	4.09	39.794	0.632	Chloride
3	5.29	1.577	0.006	Nitrite
4	6.08	0.142	0.029	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.50	53.396	1.055	Sulfate
<hr/>				
6	12.00	96.642	1.756	

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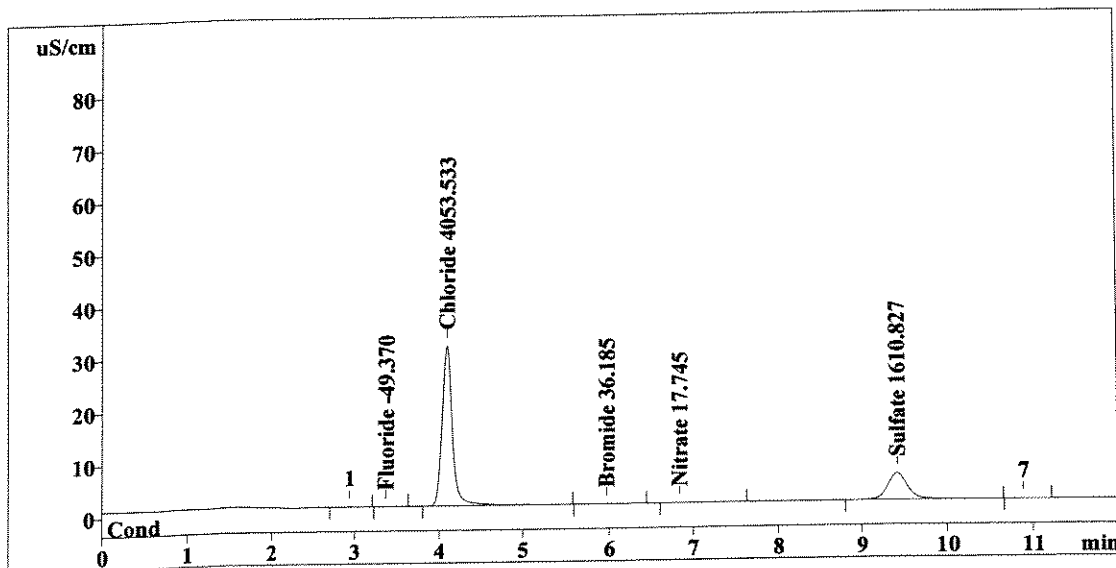
Method 300.0/9056

Report date: 7/10/2008 15:32:54
 Printed by: User
 Ident: 1112489
 Analysis from: 7/10/2008 15:20:56
 File: S7101520.CHW

Last save: 7/10/2008 15:32:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38098
 SAMPLE: C
 Vial number: 83
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.090	-49.370	Fluoride
2	4.08	263.618	4053.533	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.345	36.185	Bromide
5	6.83	0.222	17.745	Nitrate
6	9.42	80.966	1610.827	Sulfate
6	12.00	345.241	5767.661	

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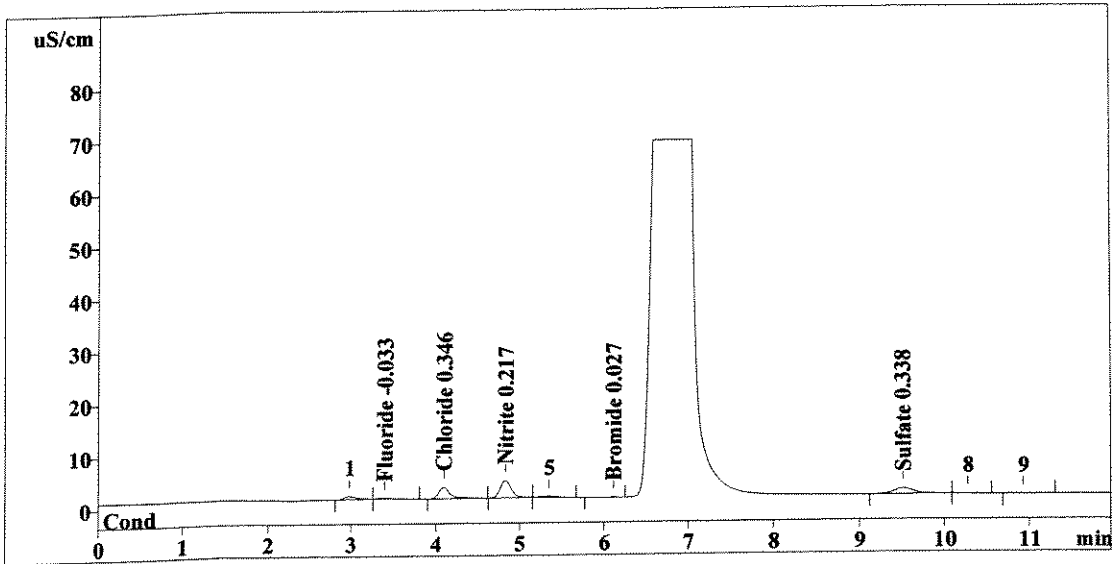
Method 300.0/9056

Report date: 7/10/2008 15:47:00
 Printed by: User
 Ident: BLK0710
 Analysis from: 7/10/2008 15:35:02
 File: S7101535.CHW

Last save: 7/10/2008 15:46:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38099
 SAMPLE:
 Vial number: 121
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	1.849	-0.033	Fluoride
2	4.09	21.093	0.346	Chloride
3	4.82	30.198	0.217	Nitrite
4	6.11	0.083	0.027	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.52	17.830	0.338	Sulfate
6	12.00	71.054	0.961	

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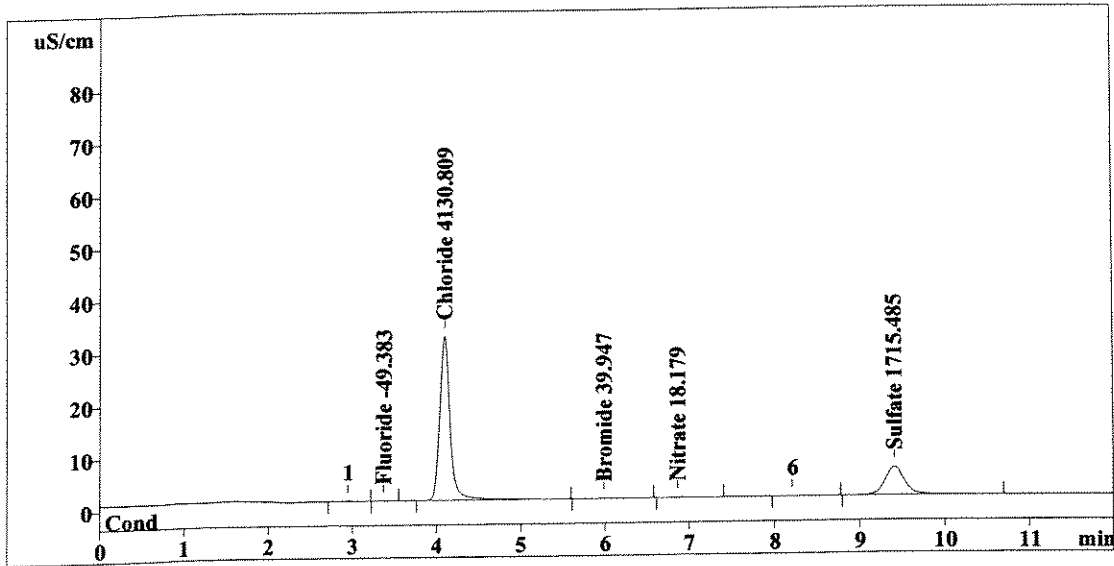
Method 300.0/9056

Report date: 7/10/2008 16:01:06
 Printed by: User
 Ident: 1112809
 Analysis from: 7/10/2008 15:49:08
 File: S7101549.CHW

Last save: 7/10/2008 16:00:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38100
 SAMPLE: C
 Vial number: 84
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.089	-49.383	Fluoride
2	4.09	268.673	4130.809	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	0.451	39.947	Bromide
5	6.86	0.294	18.179	Nitrate
6	9.41	86.157	1715.485	Sulfate
6	12.00	355.664	5953.804	

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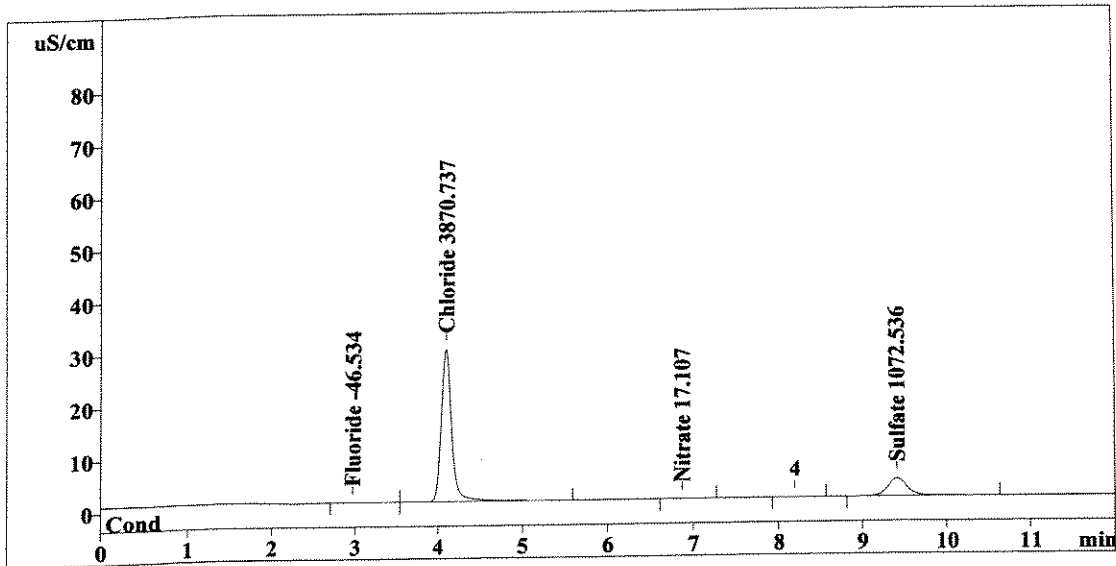
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 16:15:12
 Printed by: User
 Ident: 1112810
 Analysis from: 7/10/2008 16:03:14
 File: S7101603.CHW

Method 300.0/9056

Last save: 7/10/2008 16:15:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38101
 SAMPLE: C
 Vial number: 85
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.97	0.399	-46.534	Fluoride
2	4.09	251.662	3870.737	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.87	0.116	17.107	Nitrate
6	9.41	54.267	1072.536	Sulfate
<hr/>				
6	12.00	306.443	5006.914	

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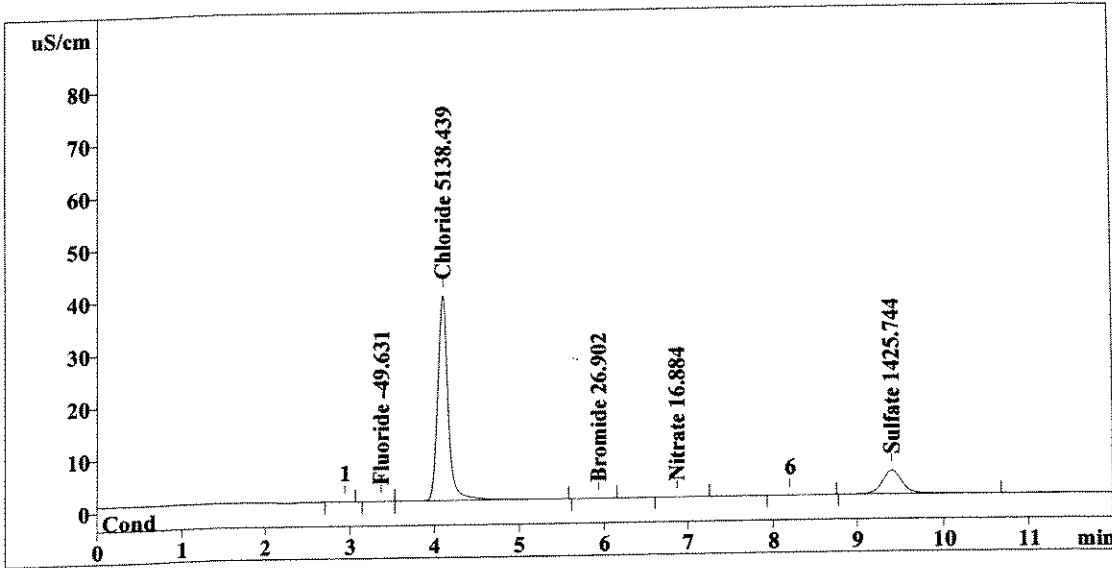
Method 300.0/9056

Report date: 7/10/2008 16:29:18
 Printed by: User
 Ident: 1112811
 Analysis from: 7/10/2008 16:17:19
 File: S7101617.CHW

Last save: 7/10/2008 16:29:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38102
 SAMPLE: C
 Vial number: 86
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.062	-49.631	Fluoride
2	4.09	334.582	5138.439	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.95	0.082	26.902	Bromide
5	6.87	0.079	16.884	Nitrate
6	9.40	71.786	1425.744	Sulfate
6	12.00	406.590	6657.599	

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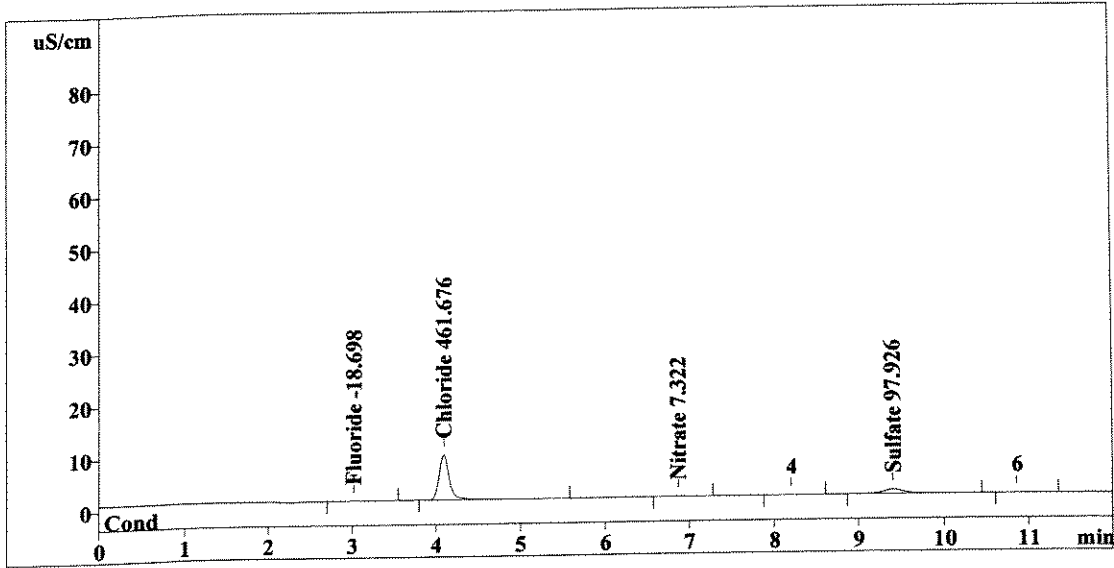
Method 300.0/9056

Report date: 7/10/2008 16:43:23
 Printed by: User
 Ident: 1113136
 Analysis from: 7/10/2008 16:31:25
 File: S7101631.CHW

Last save: 7/10/2008 16:43:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38103
 SAMPLE: C
 Vial number: 87
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.01	0.376	-18.698	Fluoride
2	4.09	73.974	461.676	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.87	0.315	7.322	Nitrate
6	9.41	13.212	97.926	Sulfate
<hr/>				
6	12.00	87.877	585.623	

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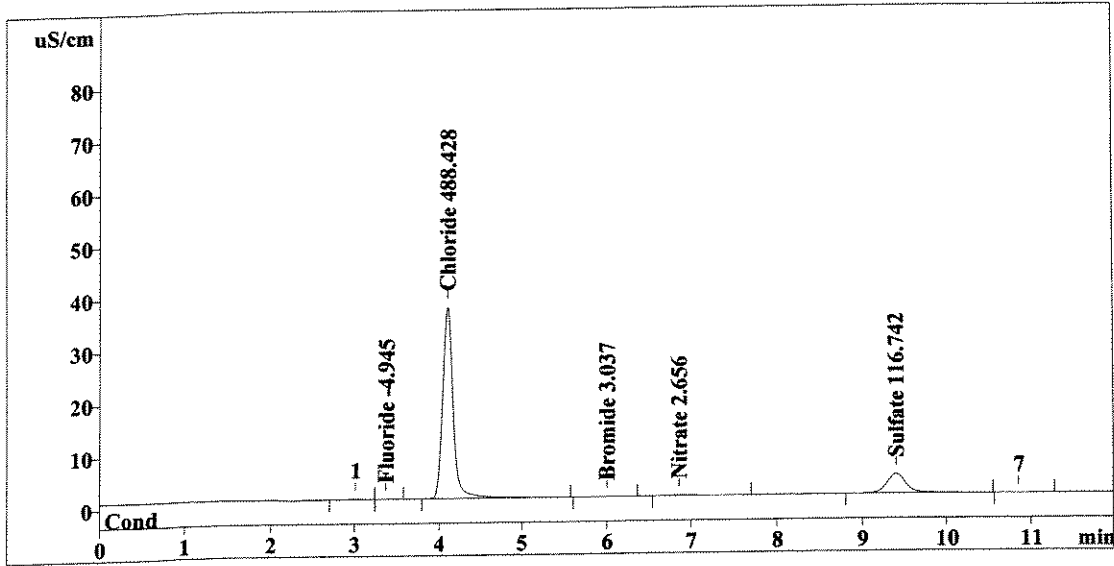
Ion Chromatography Analytical Report
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 Report date: 7/10/2008 16:57:29
 Printed by: User
 Ident: 1113136
 Analysis from: 7/10/2008 16:45:31
 File: S7101645.CHW

Method 300.0/9056

Last save: 7/10/2008 16:57:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38104
 SAMPLE: S
 Vial number: 88
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.081	-4.945	Fluoride
2	4.09	317.957	488.428	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.00	0.180	3.037	Bromide
5	6.86	1.689	2.656	Nitrate
6	9.40	58.973	116.742	Sulfate
<hr/>				
6	12.00	378.880	615.808	

OK
7/10/08

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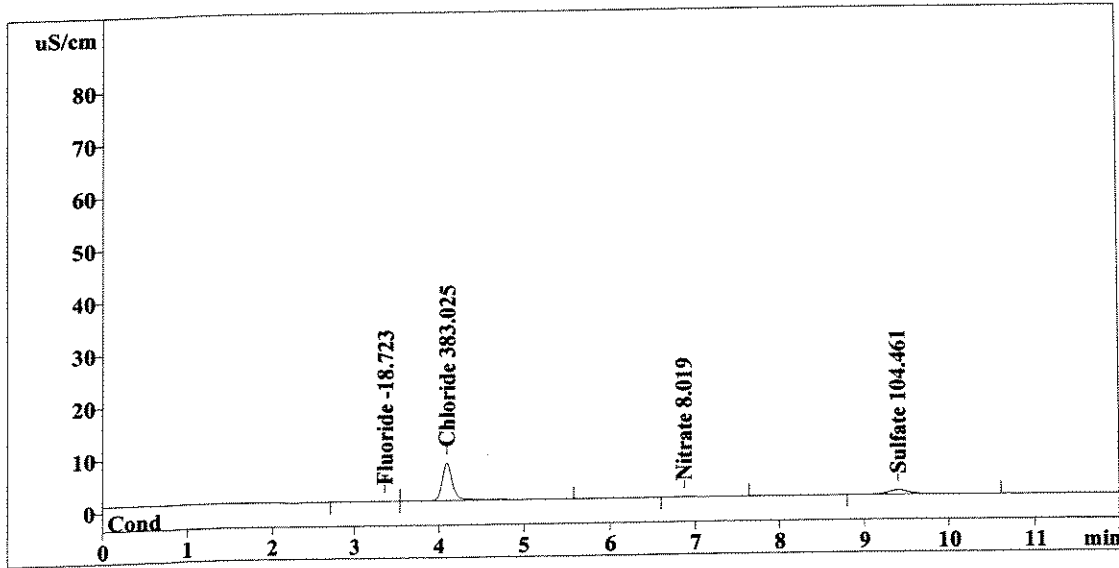
Method 300.0/9056

Report date: 7/10/2008 17:11:35
 Printed by: User
 Ident: 1113137
 Analysis from: 7/10/2008 16:59:37
 File: S7101659.CHW

Last save: 7/10/2008 17:11:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38105
 SAMPLE: C
 Vial number: 89
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.369	-18.723	Fluoride
2	4.09	61.112	383.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.87	0.605	8.019	Nitrate
6	9.40	14.023	104.461	Sulfate
<hr/>				
6	12.00	76.109	514.228	

Handwritten notes: report 1/10/08, 7/10/08

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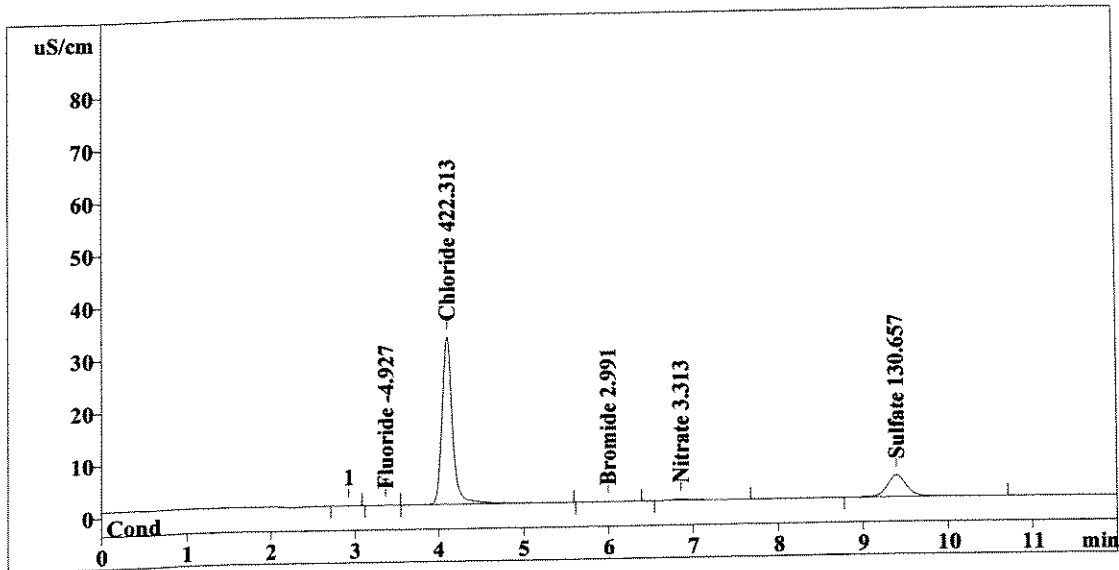
Method 300.0/9056

Report date: 7/10/2008 17:25:41
 Printed by: User
 Ident: 1113137
 Analysis from: 7/10/2008 17:13:42
 File: S7101713.CHW

Last save: 7/10/2008 17:25:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38106
 SAMPLE: S
 Vial number: 90
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.101	-4.927	Fluoride
2	4.09	274.712	422.313	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	0.167	2.991	Bromide
5	6.85	2.780	3.313	Nitrate
6	9.40	65.875	130.657	Sulfate
<hr/>				
6	12.00	343.634	564.201	

Handwritten notes: 'OK' next to Chloride, 'OK' next to Sulfate, and a signature 'C. J. [unclear]' with date '7/10/08' over the total row.

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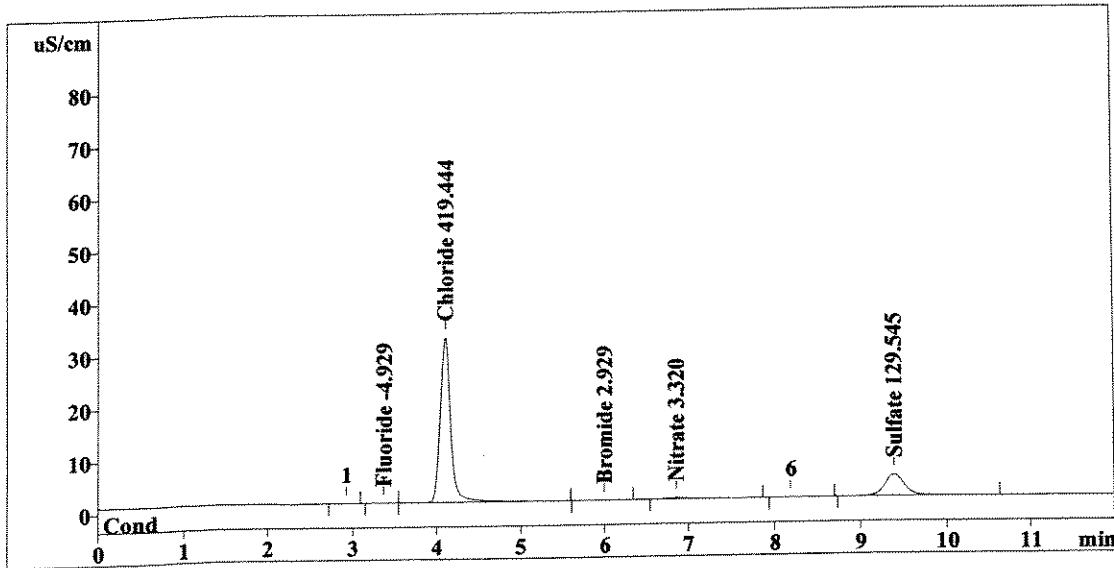
Method 300.0/9056

Report date: 7/10/2008 17:39:46
 Printed by: User
 Ident: 1113137 DUP
 Analysis from: 7/10/2008 17:27:48
 File: S7101727.CHW

Last save: 7/10/2008 17:39:36

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38107
 SAMPLE: S
 Vial number: 91
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.099	-4.929	Fluoride
2	4.09	272.835	419.444	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.00	0.150	2.929	Bromide
5	6.85	2.792	3.320	Nitrate
6	9.39	65.323	129.545	Sulfate
<hr/>				
6	12.00	341.199	560.166	

OK
OK
7/10/08

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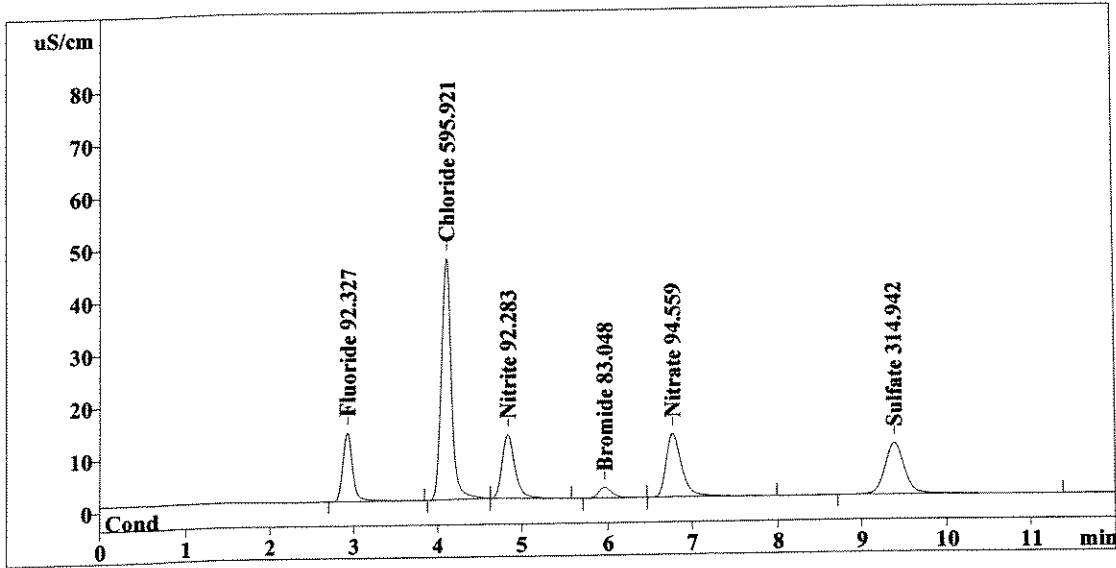
Method 300.0/9056

Report date: 7/10/2008 17:53:52
 Printed by: User
 Ident: 1113137 SPK
 Analysis from: 7/10/2008 17:41:54
 File: S7101741.CHW

Last save: 7/10/2008 17:53:42

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38108
 SAMPLE: S
 Vial number: 92
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	105.995	92.327	Fluoride
2	4.09	388.268	595.921	Chloride
3	4.83	126.111	92.283	Nitrite
4	5.96	22.801	83.048	Bromide
5	6.77	154.545	94.559	Nitrate
6	9.39	157.279	314.942	Sulfate
<hr/>				
6	12.00	954.999	1273.080	

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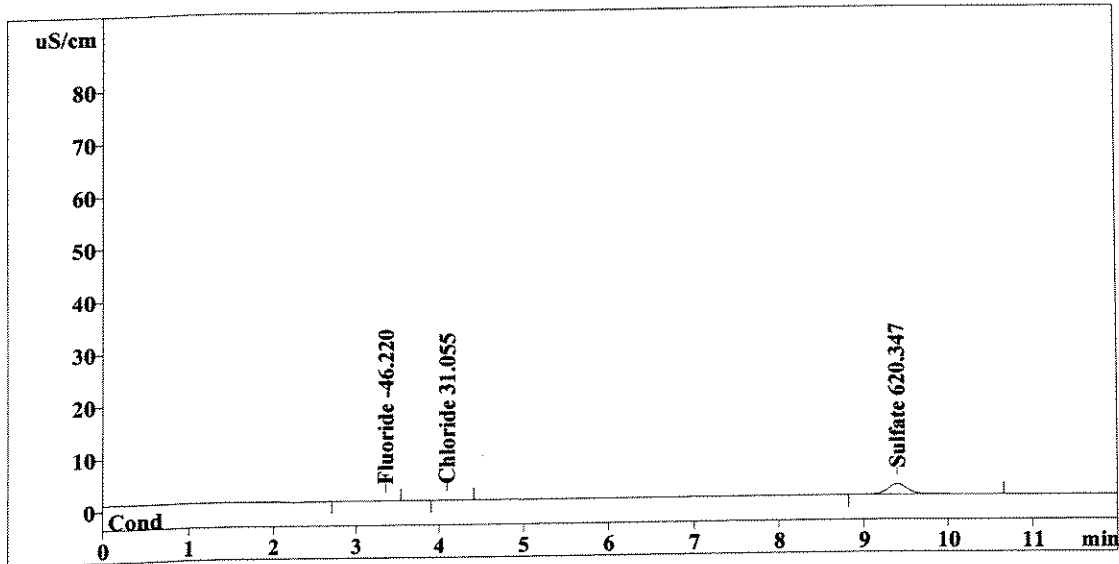
Method 300.0/9056

Report date: 7/10/2008 18:07:58
 Printed by: User
 Ident: 1115469
 Analysis from: 7/10/2008 17:56:00
 File: S7101756.CHW

Last save: 7/10/2008 18:07:48

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38109
 SAMPLE: S
 Vial number: 93
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.433	-46.220	Fluoride
2	4.09	0.510	31.055	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.40	31.838 <i>opt 1/400</i>	620.347	Sulfate
6	12.00	32.781	697.621	

*CMY
7/10/08*

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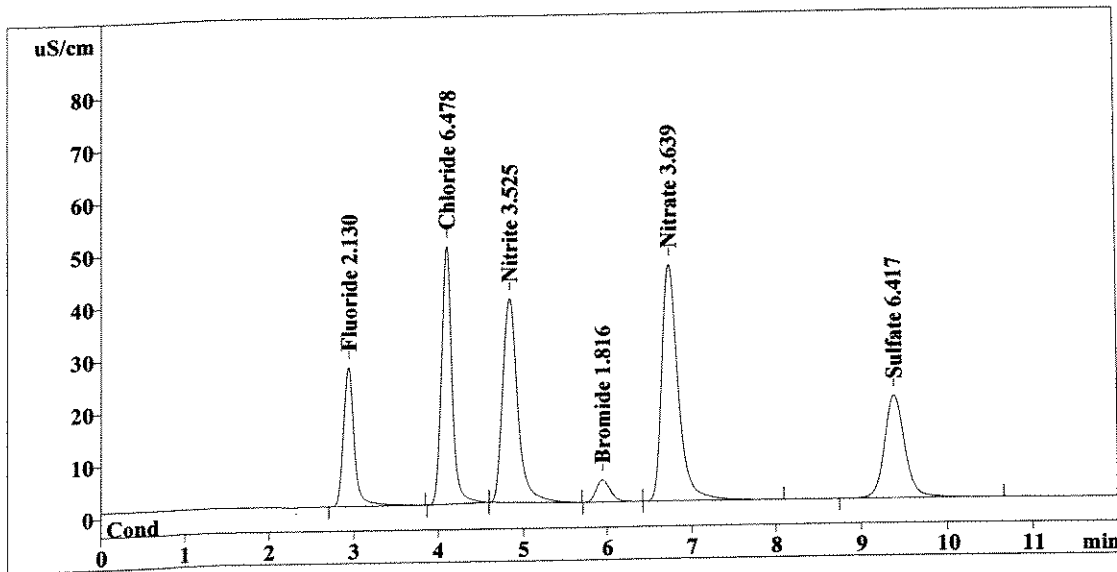
Method 300.0/9056

Report date: 7/10/2008 18:22:04
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 18:10:05
 File: S7101810.CHW

Last save: 7/10/2008 18:21:54

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38110
 SAMPLE:
 Vial number: 94
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	237.411	2.130	Fluoride
2	4.09	422.200	6.478	Chloride
3	4.82	479.734	3.525	Nitrite
4	5.94	50.666	1.816	Bromide
5	6.73	602.465	3.639	Nitrate
6	9.39	319.335	6.417	Sulfate
<hr/>				
6	12.00	2111.811	24.005	

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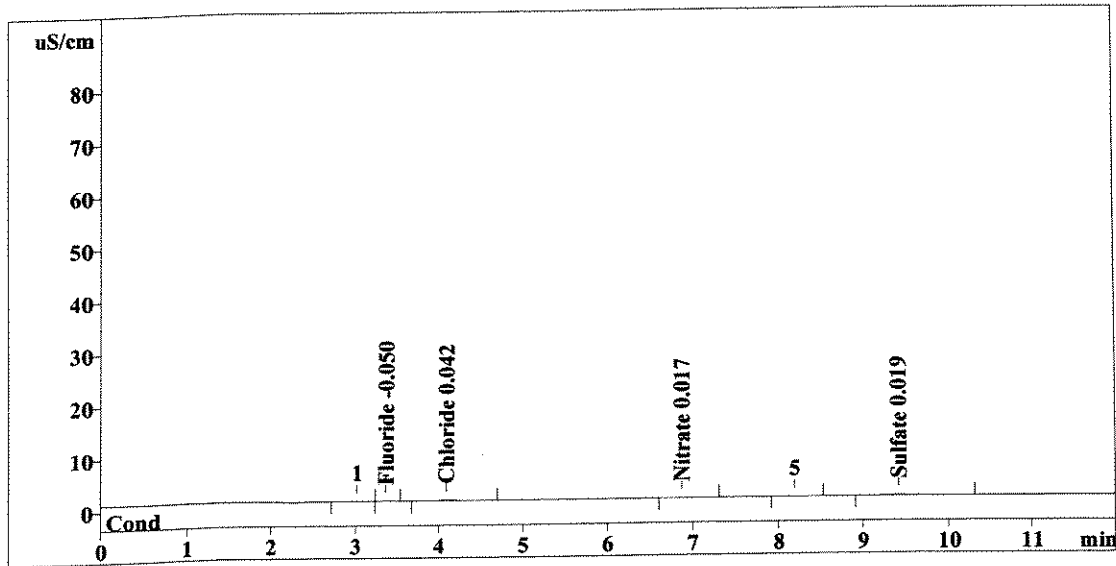
Method 300.0/9056

Report date: 7/10/2008 18:45:03
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 18:33:05
 File: S7101833.CHW

Last save: 7/10/2008 18:44:54

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38111
 SAMPLE:
 Vial number: 95
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.061	-0.050	Fluoride
2	4.09	1.219	0.042	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.87	0.167	0.017	Nitrate
6	9.42	2.008	0.019	Sulfate
<hr/>				
6	12.00	3.454	0.128	

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Handwritten signature and date: CCB 7/11/08

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861
 Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 06/10/2008 Loop size: 50 uL Loop

Analyst: C. Woods Analysis Date: 7-9-08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A		Working Calibration Stds	06/10/08	WC72050H
LCS / MS Intermediate	06/10/08	WC72050A		Working LCS/MS Standard	07/03/08	WC72093E
ICV Intermediate	05/05/08	WC72134B		Working ICV Standard	DAILY	WC72134H
CCV Intermediate	05/05/08	WC72134B		Working CCV Standard	DAILY	WC72134H

Comments:

CALIBRATION EXPIRES ON 12/10/2008

CHORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

WORKING LCS PREP
 (Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC72050A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC720093C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC720093D
NO3		50			1.0	OMW	7/3/08	E	7/6/08	WC720093E
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Method 300.0/9056

Report date: 6/10/2008 15:04:34
Printed by: User
Ident: LCS
Analysis from: 6/10/2008 14:20:35
File: s6101420.chw
Modified!
Method: 06-10-08CAL.mtw
Run operator: User
Analysis number: 36794
SAMPLE:
Vial number: 12
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

Last save: 6/10/2008 14:32:48

Last save: 6/10/2008 13:48:56

COLUMN: METROSEP A SUPP 5 - 100 (6.1006.510)
Size: 4.0 x 100 mm
Number: 7503293
Part.size: 5.0 µm

ELUENT: 3.2 mM Na₂CO₃ / 1.0 mM NaHCO₃

Flow: 0.70 mL/min
Temperature: 20.0°C
Pressure: 5.0 MPa

ACQUISITION PARAMETERS

Channels: 1
Method duration: 12.00min
Run duration: 12.00min
Measurements (method): 7200
Measurements (run): 7200
Freq.divisor: 1
Sampling: 10.00 pts/sec
Start delay: sec
Device: 732 IC Detector
Program before:
Program after:
Spikes filter: No
Median filter: No
slit: 0
Gauss filter: No
slit: 0

INTEGRATION DEFAULTS

Channel: Cond
Delay: 2.70 min
Width: 2.00 sec
Broadening: 2.00
Slope: 1.00
Asymmetry: 1.00
MinArea: 0.05
MinHeight: 0.00
Rider ratio: 0.00
No. min
1 0.00 Enable valley-to-valley

This report has been created by IC Net
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ACQUISITION PARAMETERS

Channels: 1
Method duration: 12.00min
Run duration: 12.00min
Measurements (method): 7200
Measurements (run): 7200
Freq.divisor: 1
Sampling: 10.00 pts/sec
Start delay: sec
Device: 732 IC Detector
Program before:
Program after:
Spikes filter: No
Median filter: No
slit: 0
Gauss filter: No
slit: 0

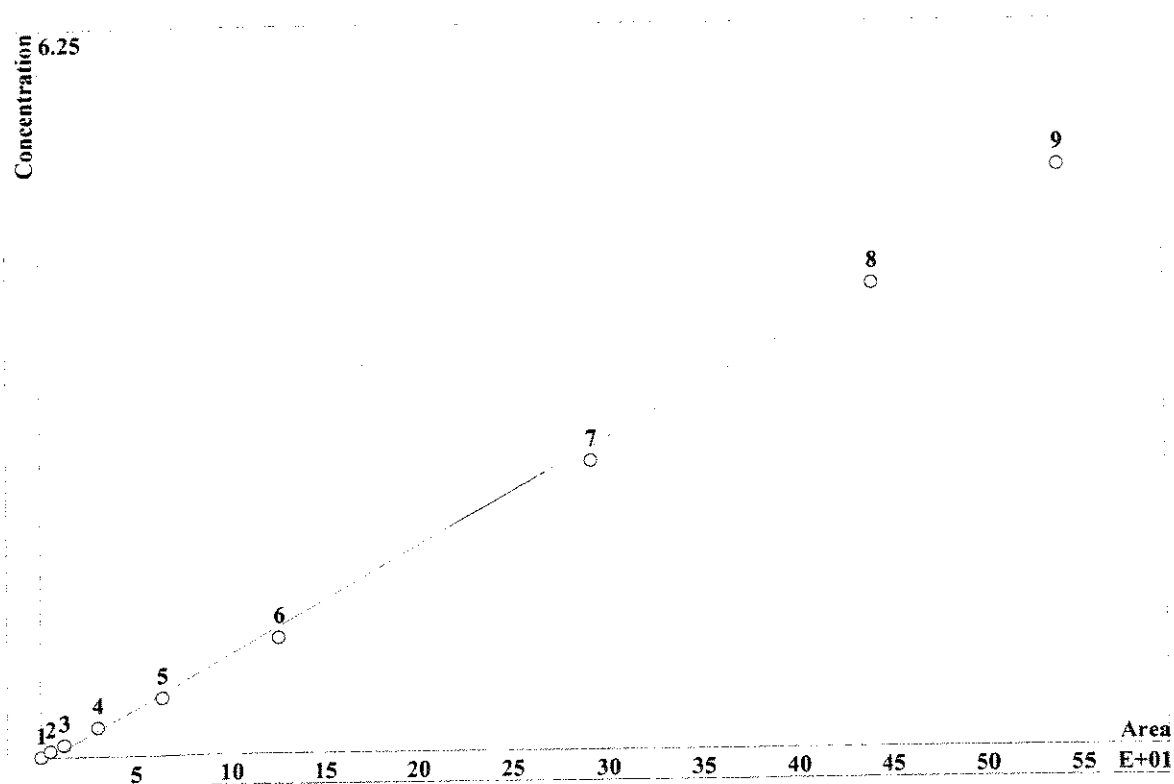
INTEGRATION DEFAULTS

Channel: Cond
Delay: 2.70 min
Width: 2.00 sec
Broadening: 2.00
Slope: 1.00
Asymmetry: 1.00
MinArea: 0.05
MinHeight: 0.00
Rider ratio: 0.00
No. min
1 0.00 Enable valley-to-valley

This report has been created by IC Net
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CALIBRATION OF COMPONENT Fluoride

Method: 06-10-08CAL.mtw
 Equation: $Q = 0.00918405 \cdot A - 0.0501966$
 RSD: 5.110 %
 Correlation coefficient: 0.999292

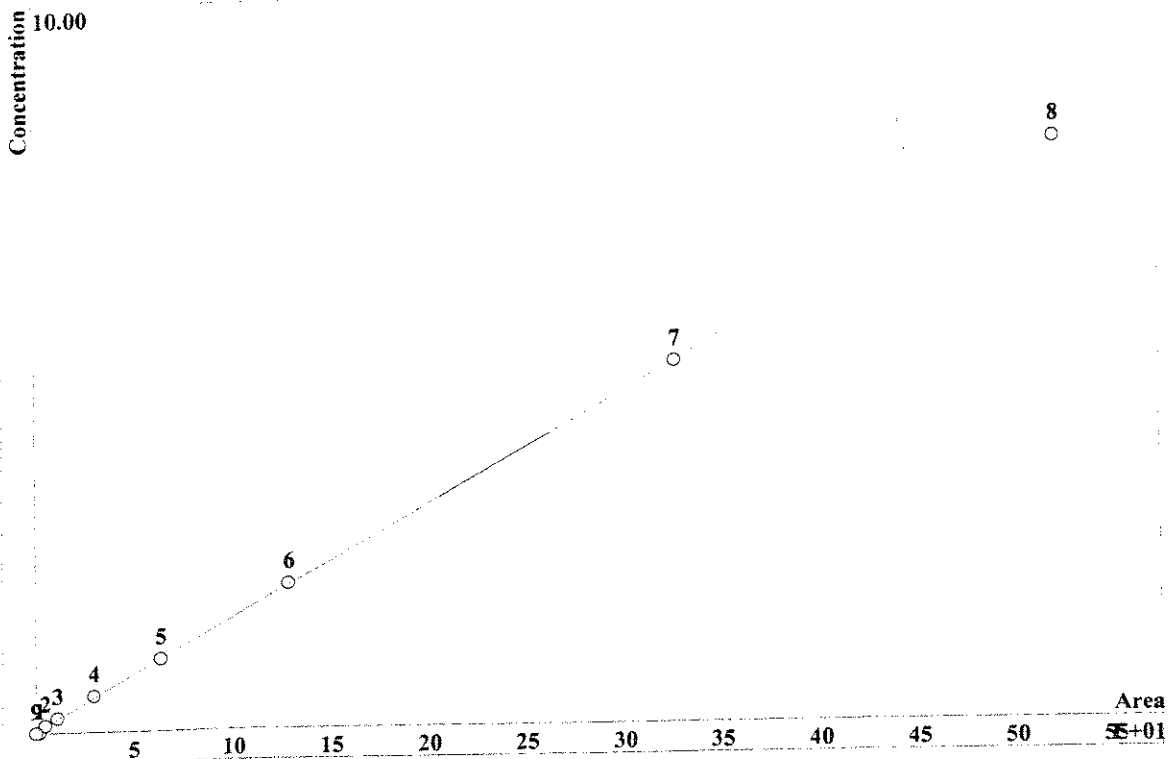


K3 = 0 K2 = 0 K1 = 0.00918405 K0 = -0.0501966
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.01064	0.174	1e-05	1	3.202	Yes	s6101036.chw
2	0.6064	5.055	0.05	1	3.202	Yes	s6101050.chw
3	1.325	12.3	0.1	1	3.202	Yes	s6101104.chw
4	3.552	30.14	0.25	1	3.202	Yes	s6101118.chw
5	7.406	63.57	0.5	1	3.202	Yes	s6101132.chw
6	14.68	124.9	1	1	3.202	Yes	s6101146.chw
7	33.36	291.1	2.5	1	3.202	Yes	s6101201.chw
8	47.69	440.7	4	1	3.202	Yes	s6101215.chw
9	56.19	540.3	5	1	3.202	Yes	s6101229.chw

CALIBRATION OF COMPONENT Chloride

Method: 06-10-08CAL.mtw
 Equation: $Q = 0.0152883 \cdot A + 0.0232615$
 RSD: 1.182 %
 Correlation coefficient: 0.999969

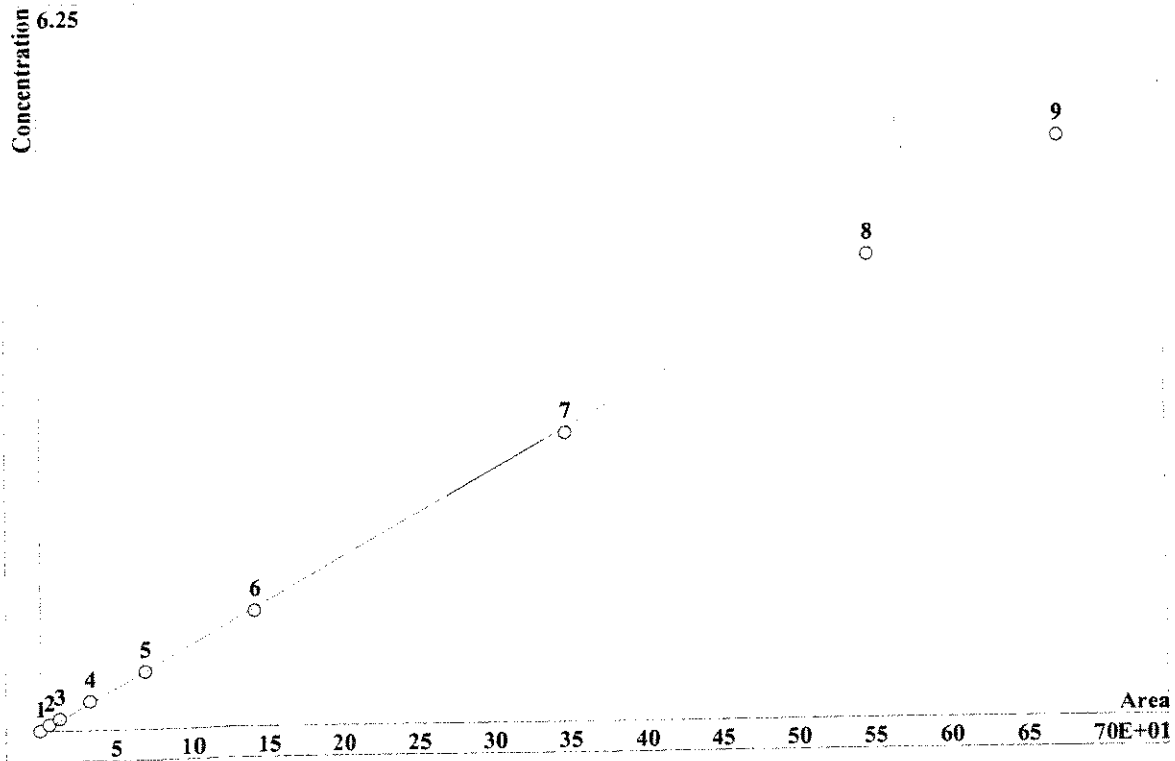


K3 = 0 K2 = 0 K1 = 0.0152883 K0 = 0.0232615
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.06833	1.807	1e-05	1	4.04	Yes	s6101036.chw
2	0.562	4.825	0.1	1	4.04	Yes	s6101050.chw
3	1.283	10.98	0.2	1	4.04	Yes	s6101104.chw
4	3.542	29.63	0.5	1	4.04	Yes	s6101118.chw
5	7.545	63.41	1	1	4.04	Yes	s6101132.chw
6	15.19	128.1	2	1	4.04	Yes	s6101146.chw
7	38.71	326.1	5	1	4.04	Yes	s6101201.chw
8	61.12	521.8	8	1	4.04	Yes	s6101215.chw
9	0	0	10	0	0	No	s6101229.chw

CALIBRATION OF COMPONENT Nitrite

Method: 06-10-08CAL.mtw
 Equation: $Q = 0.00735996 \cdot A - 0.00533613$
 RSD: 1.988 %
 Correlation coefficient: 0.999893

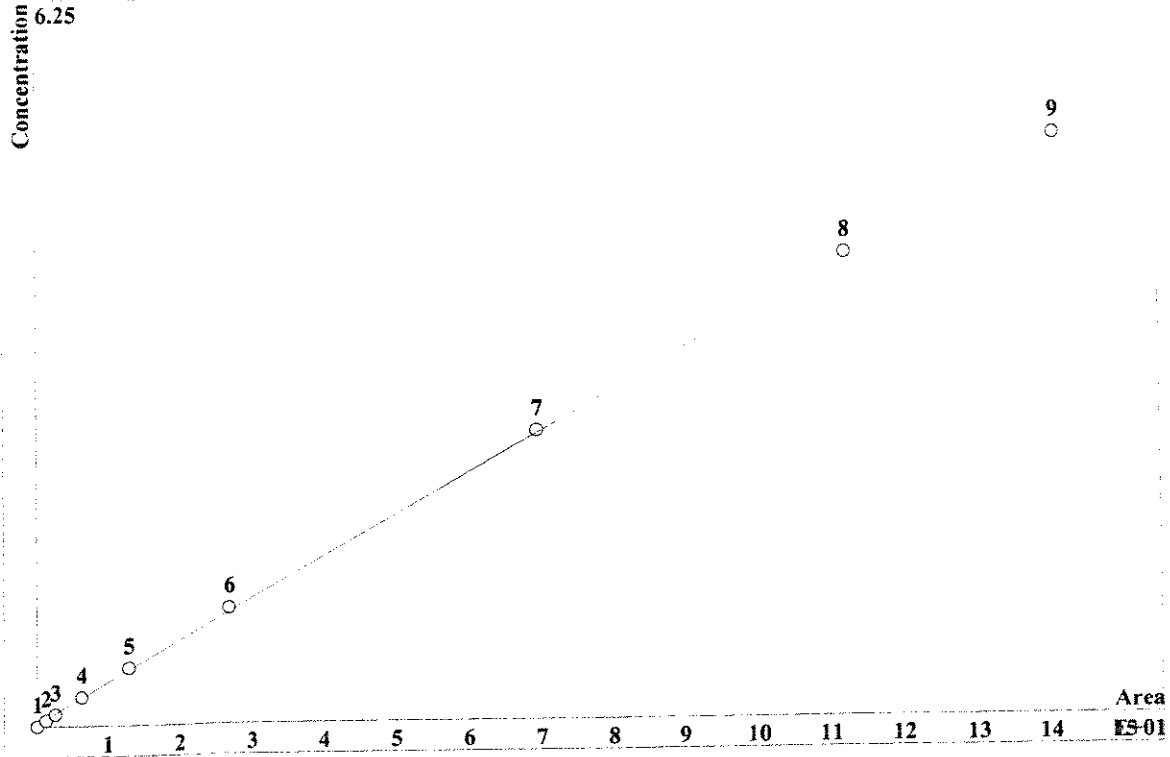


K3 = 0 K2 = 0 K1 = 0.00735996 K0 = -0.00533613
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	-3.034e-05	-0.000164	1e-05	1	4.572	Yes	s6101036.chw
2	0.5537	5.677	0.05	1	4.572	Yes	s6101050.chw
3	1.153	12.43	0.1	1	4.572	Yes	s6101104.chw
4	3.042	32.38	0.25	1	4.572	Yes	s6101118.chw
5	6.338	69.12	0.5	1	4.572	Yes	s6101132.chw
6	12.32	139.8	1	1	4.572	Yes	s6101146.chw
7	28.05	346.7	2.5	1	4.572	Yes	s6101201.chw
8	41.9	547.4	4	1	4.572	Yes	s6101215.chw
9	50	673.7	5	1	4.572	Yes	s6101229.chw

CALIBRATION OF COMPONENT Bromide

Method: 06-10-08CAL.mtw
 Equation: $Q = 0.0353707 \cdot A + 0.0239902$
 RSD: 1.470 %
 Correlation coefficient: 0.999941

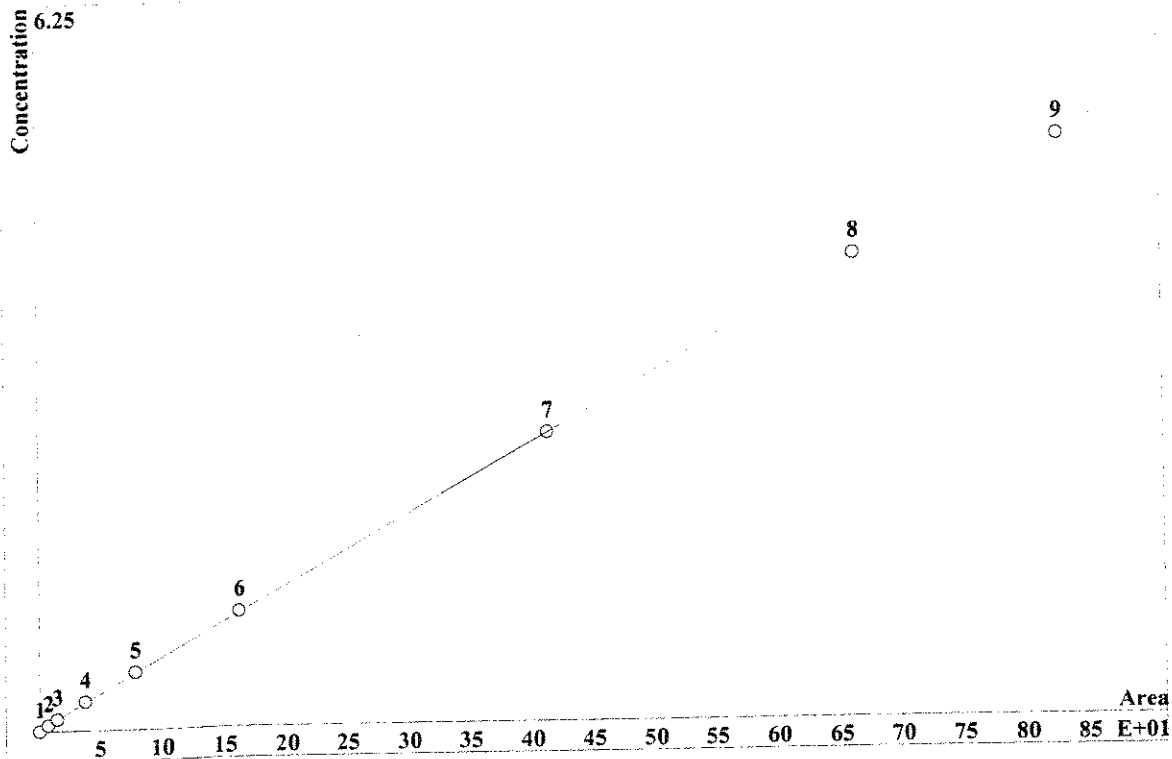


K3 = 0 K2 = 0 K1 = 0.0353707 K0 = 0.0239902
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.0001788	0.000207	1e-05	1	6.08	Yes	s6101036.chw
2	0.109	1.243	0.05	1	6.08	Yes	s6101050.chw
3	0.2246	2.531	0.1	1	6.08	Yes	s6101104.chw
4	0.5797	6.312	0.25	1	6.08	Yes	s6101118.chw
5	1.218	13.03	0.5	1	6.08	Yes	s6101132.chw
6	2.543	26.68	1	1	6.08	Yes	s6101146.chw
7	6.724	69.34	2.5	1	6.08	Yes	s6101201.chw
8	10.77	112.3	4	1	6.08	Yes	s6101215.chw
9	13.38	141.3	5	1	6.08	Yes	s6101229.chw

CALIBRATION OF COMPONENT Nitrate

Method: 06-10-08CAL.mtw
 Equation: $Q = 0.00601237 \cdot A + 0.0164087$
 RSD: 0.705 %
 Correlation coefficient: 0.999987

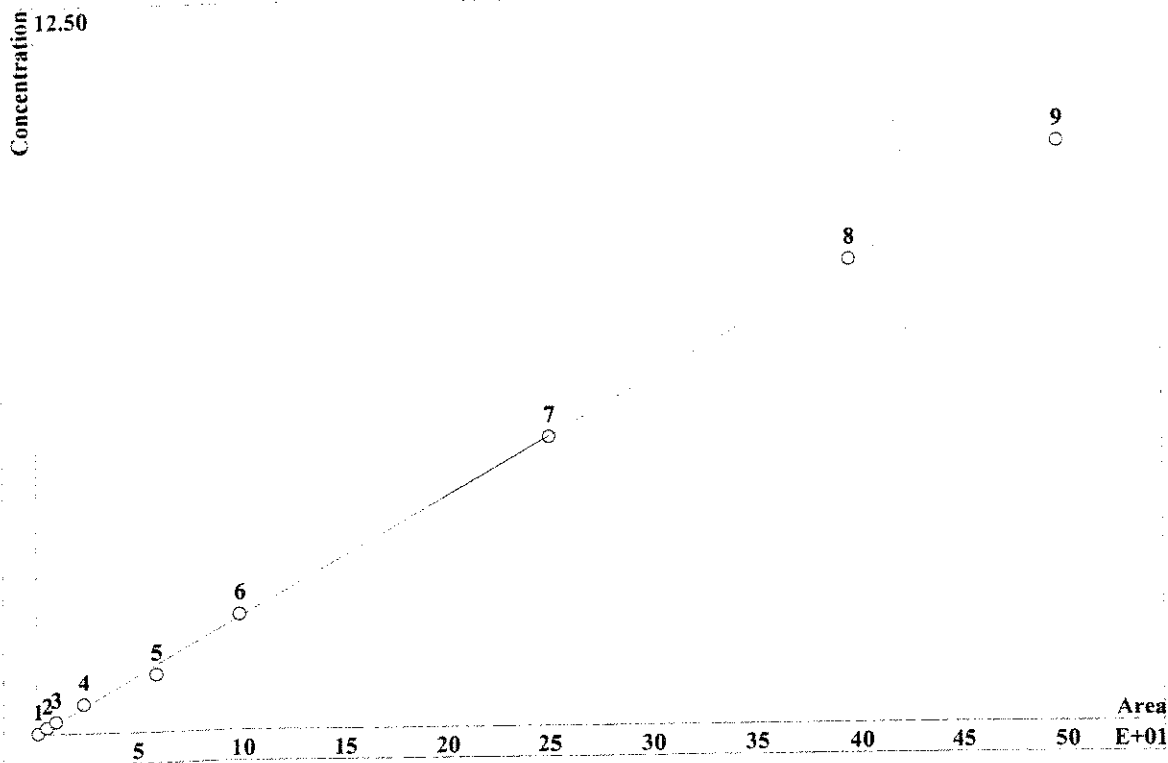


K3 = 0 K2 = 0 K1 = 0.00601237 K0 = 0.0164087
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.006157	0.07577	1e-05	1	6.975	Yes	s6101036.chw
2	0.5468	7.06	0.05	1	6.975	Yes	s6101050.chw
3	1.144	14.47	0.1	1	6.975	Yes	s6101104.chw
4	3.046	37.67	0.25	1	6.975	Yes	s6101118.chw
5	6.383	78.82	0.5	1	6.975	Yes	s6101132.chw
6	12.98	161.2	1	1	6.975	Yes	s6101146.chw
7	33.03	412.5	2.5	1	6.975	Yes	s6101201.chw
8	52.77	662.7	4	1	6.975	Yes	s6101215.chw
9	65.92	829.7	5	1	6.975	Yes	s6101229.chw

CALIBRATION OF COMPONENT Sulfate

Method: 06-10-08CAL.mtw
 Equation: $Q = 0.0201616 \cdot A - 0.0215664$
 RSD: 2.403 %
 Correlation coefficient: 0.999843



K3 = 0 K2 = 0 K1 = 0.0201616 K0 = -0.0215664
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

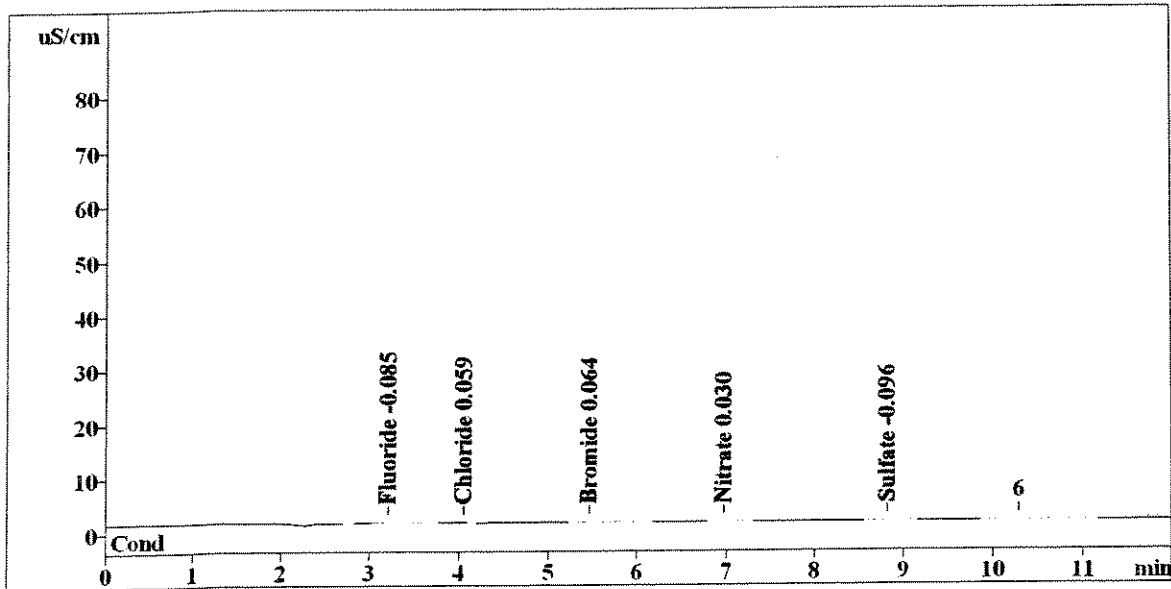
Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.03549	0.6807	1e-05	1	10.29	Yes	s6101036.chw
2	0.2733	4.966	0.1	1	10.29	Yes	s6101050.chw
3	0.5256	9.443	0.2	1	10.29	Yes	s6101104.chw
4	1.314	23.23	0.5	1	10.29	Yes	s6101118.chw
5	3.37	58.92	1	1	10.29	Yes	s6101132.chw
6	5.622	98.22	2	1	10.29	Yes	s6101146.chw
7	14.22	249.6	5	1	10.29	Yes	s6101201.chw
8	22.35	395.8	8	1	10.29	Yes	s6101215.chw
9	27.98	498	10	1	10.29	Yes	s6101229.chw

Report date: 6/10/2008 10:48:12
 Printed by: User
 Ident: STANDARD 1
 Analysis from: 6/10/2008 10:36:15
 File: S6101036.CHW

Last save: 6/10/2008 10:48:17

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36783
 SAMPLE: ANALYST: TC
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 10:14:45



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.20	0.174	-0.085	Fluoride
2	4.04	1.807	0.059	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.45	0.168	0.064	Bromide
5	6.98	0.076	0.030	Nitrate
6	8.82	0.059	-0.096	Sulfate
6	12.00	2.284	0.334	

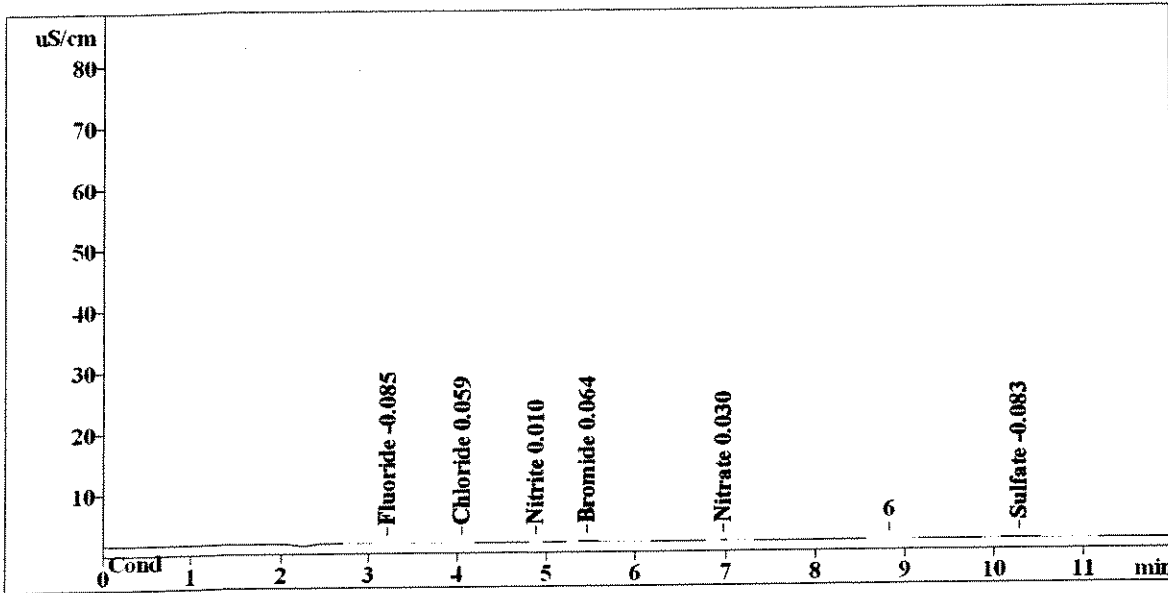
Needs Reprocess
NO NO2 peak detected

This report has been created by IC Net METROHM LTD
Metrohm software needs us to manually assign a peak area in brain for it to be used in curve

R 6/10/08
S 6/10/08

Report date: 6/10/2008 13:16:22
 Printed by: User
 Ident: STANDARD 1
 Analysis from: 6/10/2008 10:36:15
 File: s6101036.chw
 Modified! Manual peaks!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36783
 SAMPLE: ANALYST: TC
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 10:48:17
 Last save: 6/10/2008 10:14:45



Quantitation method: Custom

Reprocessed

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.20	0.174	-0.085	Fluoride
2	4.04	1.807	0.059	Chloride
3	4.88	-0.000	0.010	Nitrite
4	5.45	0.168	0.064	Bromide
5	6.98	0.076	0.030	Nitrate
6	10.29	0.681	-0.083	Sulfate
6	12.00	2.905	0.332	

OK

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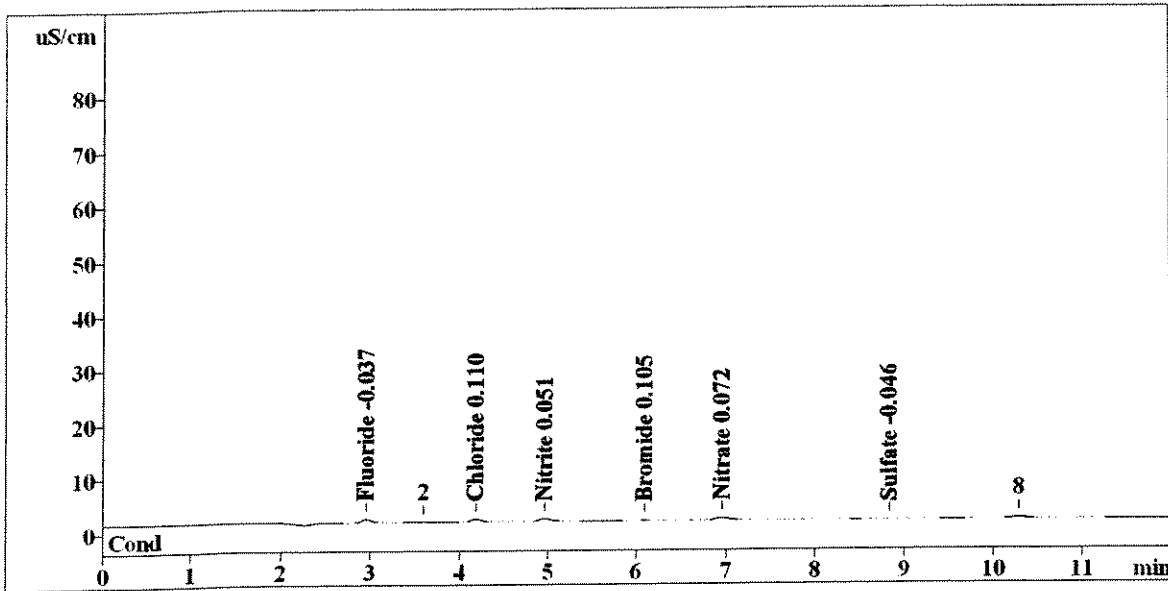
TC 6/10/08
SD 6/12/08

Report date: 6/10/2008 11:02:22
 Printed by: User
 Ident: STANDARD 2
 Analysis from: 6/10/2008 10:50:20
 File: S6101050.CHW

Last save: 6/10/2008 11:02:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36784
 SAMPLE: PIPETTES: LUCY, MINE
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 10:48:17



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	5.055	-0.037	Fluoride
2	4.17	4.825	0.110	Chloride
3	4.95	5.677	0.051	Nitrite
4	6.08	1.243	0.105	Bromide
5	6.95	7.060	0.072	Nitrate
6	8.83	0.074	-0.046	Sulfate
6	12.00	23.935	0.421	

*Reprocess
 SO4
 for
 R.T.*

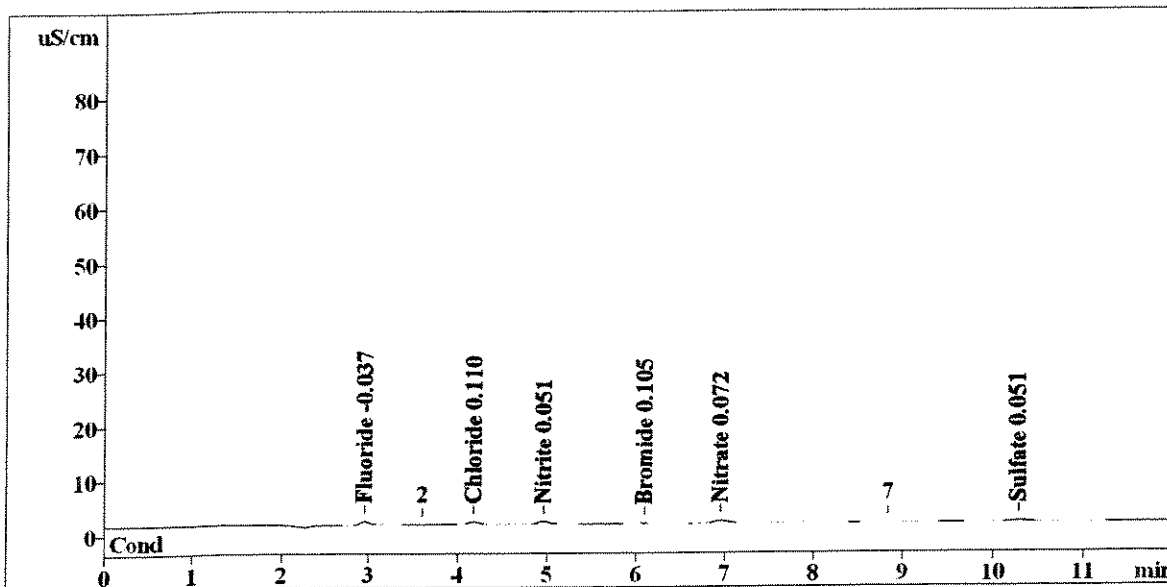
This report has been created by IC Net
 METROHM LTD

TC 6/10/08

Report date: 6/10/2008 13:17:08
 Printed by: User
 Ident: STANDARD 2
 Analysis from: 6/10/2008 10:50:20
 File: s6101050.chw
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36784
 SAMPLE: PIPETTES: LUCY, MINE
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:02:28

Last save: 6/10/2008 10:48:17



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	5.055	-0.037	Fluoride
2	4.17	4.825	0.110	Chloride
3	4.95	5.677	0.051	Nitrite
4	6.08	1.243	0.105	Bromide
5	6.95	7.060	0.072	Nitrate
6	10.28	4.966	0.051	Sulfate
6	12.00	28.826	0.425	

Reprocessed

OK

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TC 6/10/08

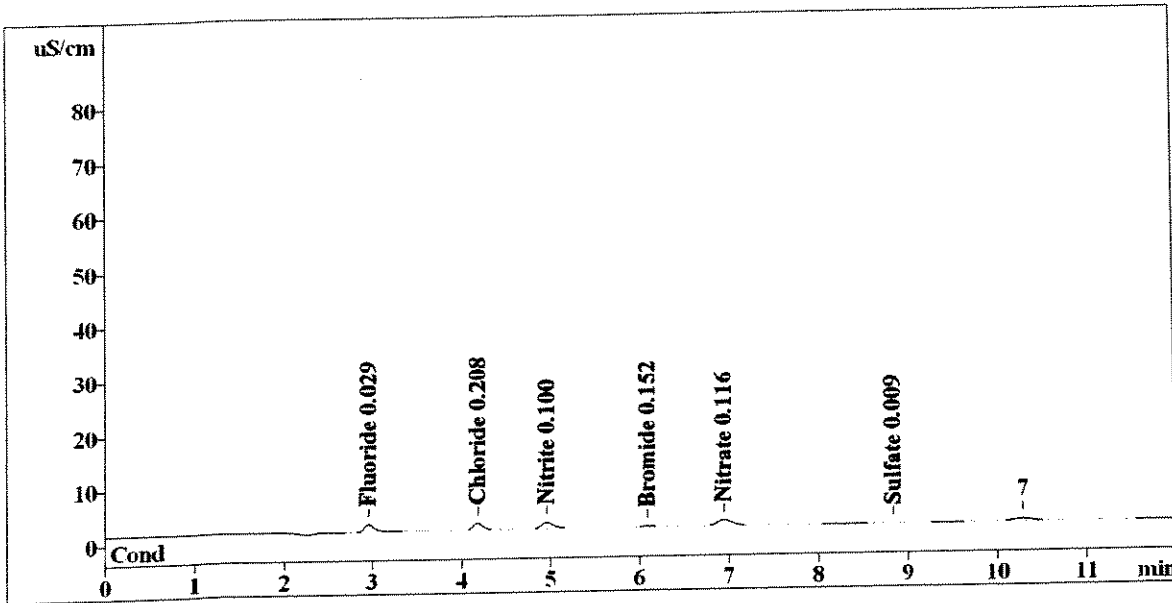
SD 6/10/08

Report date: 6/10/2008 11:16:37
 Printed by: User
 Ident: STANDARD 3
 Analysis from: 6/10/2008 11:04:40
 File: S6101104.CHW

Last save: 6/10/2008 11:16:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36785
 SAMPLE:
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:02:28



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	12.295	0.029	Fluoride
2	4.17	10.975	0.208	Chloride
3	4.95	12.432	0.100	Nitrite
4	6.08	2.531	0.152	Bromide
5	6.94	14.472	0.116	Nitrate
6	8.84	0.073	0.009	Sulfate
6	12.00	52.779	0.613	

Reprocess for SO4 R.T.

This report has been created by IC Net
 METROHM LTD

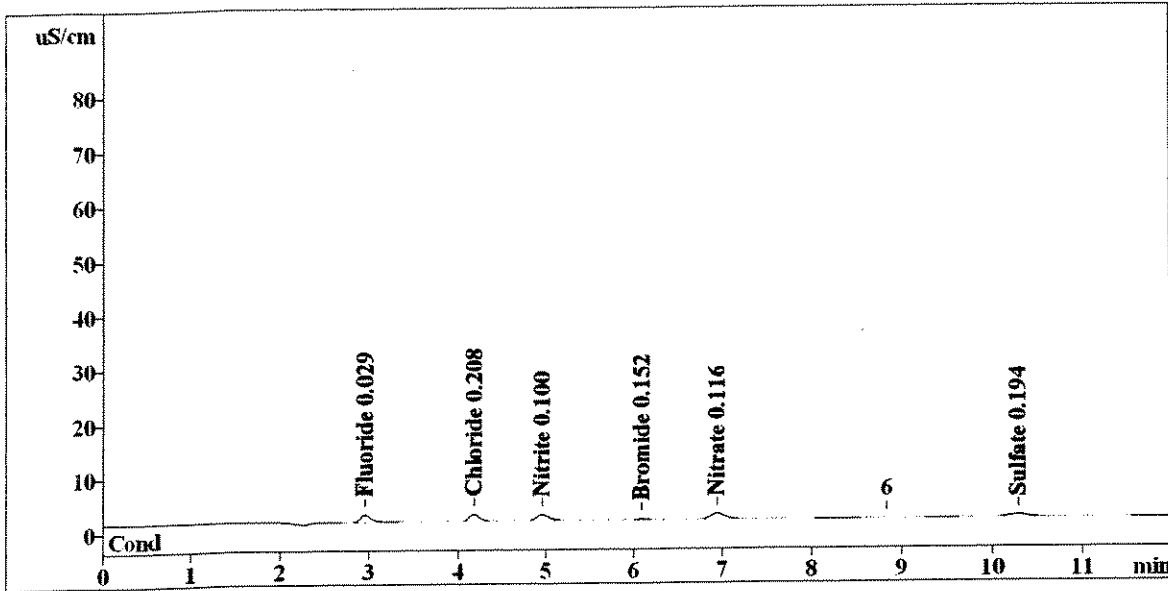
TC 6/10/08

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

Method 300.0/9056

Report date: 6/10/2008 13:17:32
 Printed by: User
 Ident: STANDARD 3
 Analysis from: 6/10/2008 11:04:40
 File: s6101104.chw
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36785
 SAMPLE:
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:16:44
 Last save: 6/10/2008 11:02:28



Quantitation method: Custom

Reprocessed

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	12.295	0.029	Fluoride
2	4.17	10.975	0.208	Chloride
3	4.95	12.432	0.100	Nitrite
4	6.08	2.531	0.152	Bromide
5	6.94	14.472	0.116	Nitrate
6	10.28	9.443	0.194	Sulfate
6	12.00	62.148	0.797	

OK

This report has been created by IC Net
 METROHM LTD

TC 6/10/08

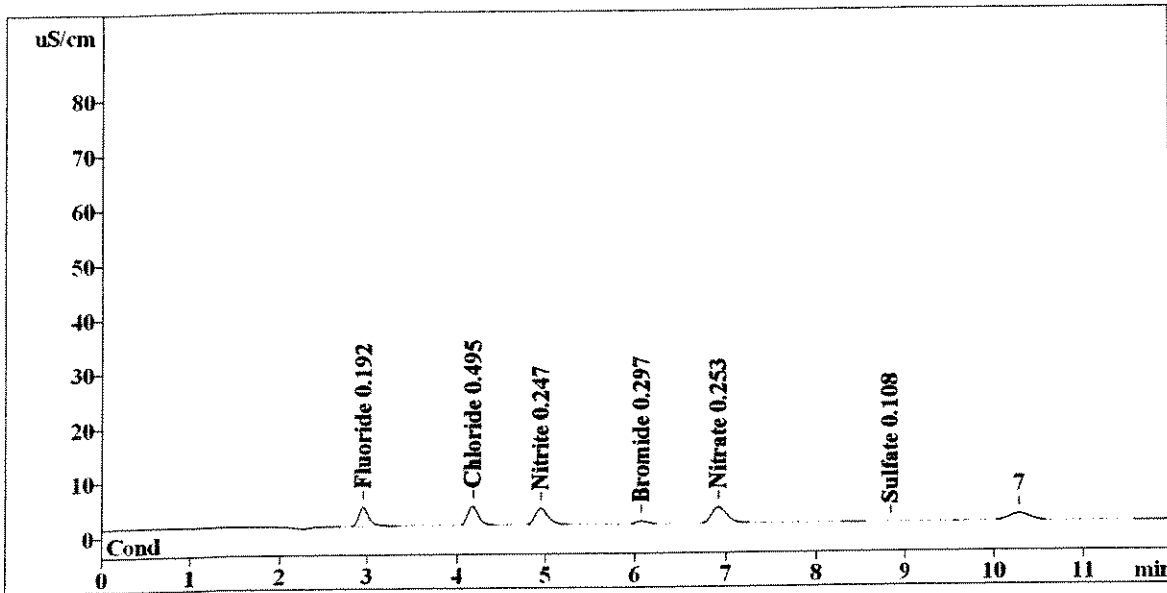
JD 6/12/08

Report date: 6/10/2008 11:30:43
 Printed by: User
 Ident: STANDARD 4
 Analysis from: 6/10/2008 11:18:45
 File: S6101118.CHW

Last save: 6/10/2008 11:30:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36786
 SAMPLE:
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:16:44



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	30.141	0.192	Fluoride
2	4.17	29.633	0.495	Chloride
3	4.95	32.381	0.247	Nitrite
4	6.07	6.312	0.297	Bromide
5	6.92	37.672	0.253	Nitrate
6	8.83	0.083	0.108	Sulfate
6	12.00	136.221	1.593	

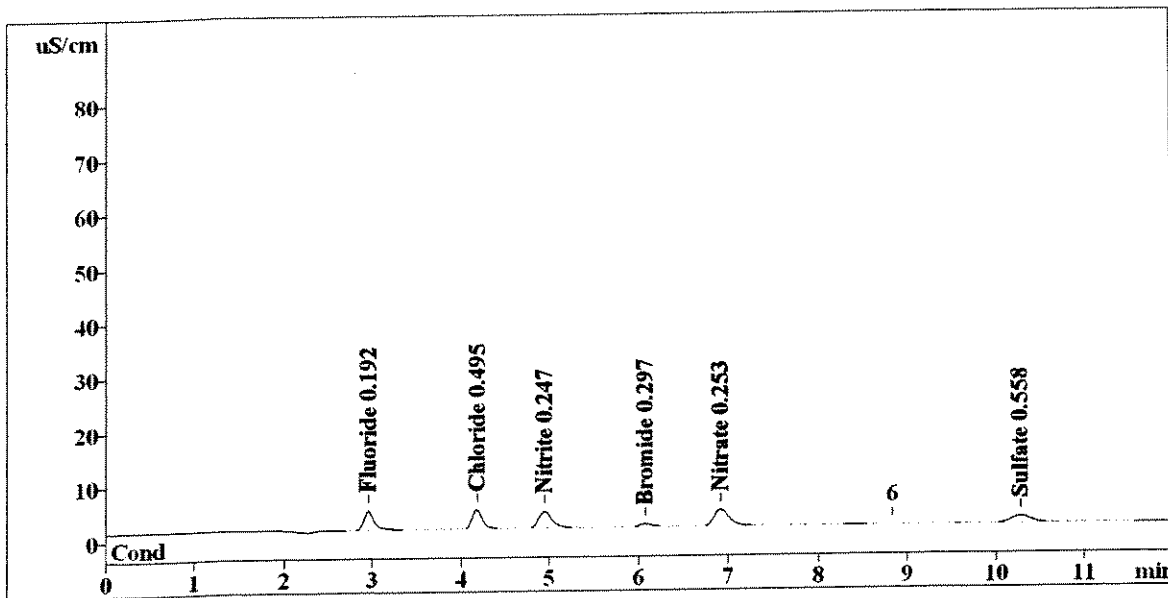
Reprocess Sp4 for R.T.

This report has been created by IC Net
 METROHM LTD

TC 6/10/08

Report date: 6/10/2008 13:17:52
 Printed by: User
 Ident: STANDARD 4
 Analysis from: 6/10/2008 11:18:45
 File: s6101118.chw
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36786
 SAMPLE:
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:30:49
 Last save: 6/10/2008 11:16:44



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	30.141	0.192	Fluoride
2	4.17	29.633	0.495	Chloride
3	4.95	32.381	0.247	Nitrite
4	6.07	6.312	0.297	Bromide
5	6.92	37.672	0.253	Nitrate
6	10.28	23.227	0.558	Sulfate
6	12.00	159.366	2.043	

Reprocessed

OK

This report has been created by IC Net
 METROHM LTD

TC 6/10/08

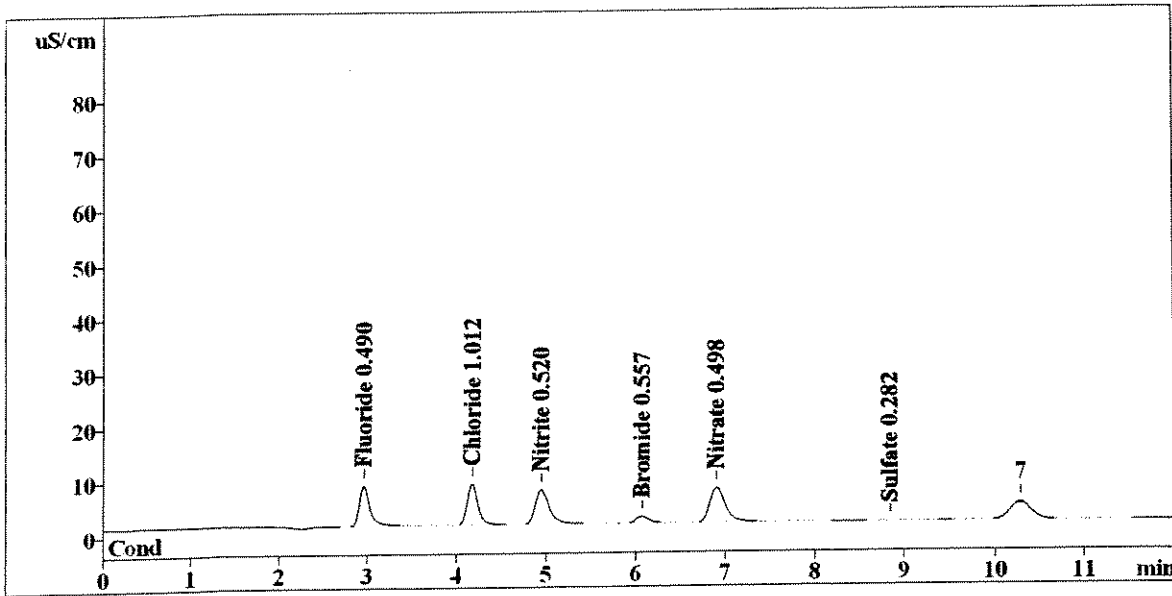
SD 6/10/08

Report date: 6/10/2008 11:44:48
 Printed by: User
 Ident: STANDARD 5
 Analysis from: 6/10/2008 11:32:50
 File: S6101132.CHW

Last save: 6/10/2008 11:44:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36787
 SAMPLE:
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:30:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	63.574	0.490	Fluoride
2	4.17	63.407	1.012	Chloride
3	4.94	69.123	0.520	Nitrite
4	6.07	13.029	0.557	Bromide
5	6.90	78.819	0.498	Nitrate
6	8.84	0.090	0.282	Sulfate
6	12.00	288.041	3.360	

Reprocess SO4 for R.T.

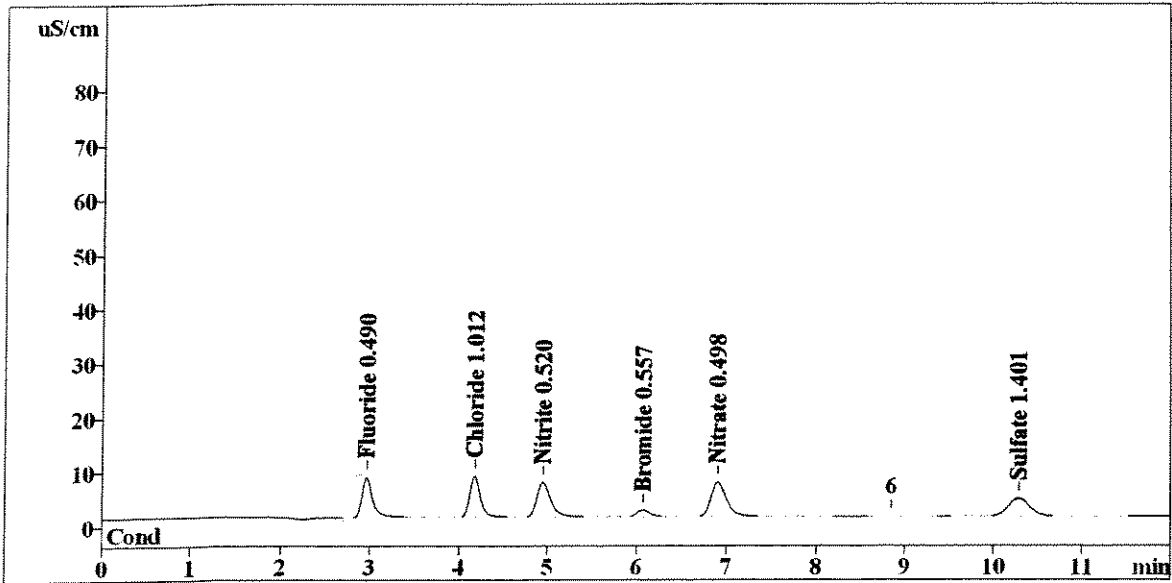
This report has been created by IC Net
 METROHM LTD

TC 6/10/08

Report date: 6/10/2008 13:18:08
 Printed by: User
 Ident: STANDARD 5
 Analysis from: 6/10/2008 11:32:50
 File: s6101132.chw
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36787
 SAMPLE:
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:44:55

Last save: 6/10/2008 11:30:49



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	63.574	0.490	Fluoride
2	4.17	63.407	1.012	Chloride
3	4.94	69.123	0.520	Nitrite
4	6.07	13.029	0.557	Bromide
5	6.90	78.819	0.498	Nitrate
6	10.28	58.915	1.401	Sulfate
6	12.00	346.866	4.479	

Reprocessed
OK

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TE 6/10/08

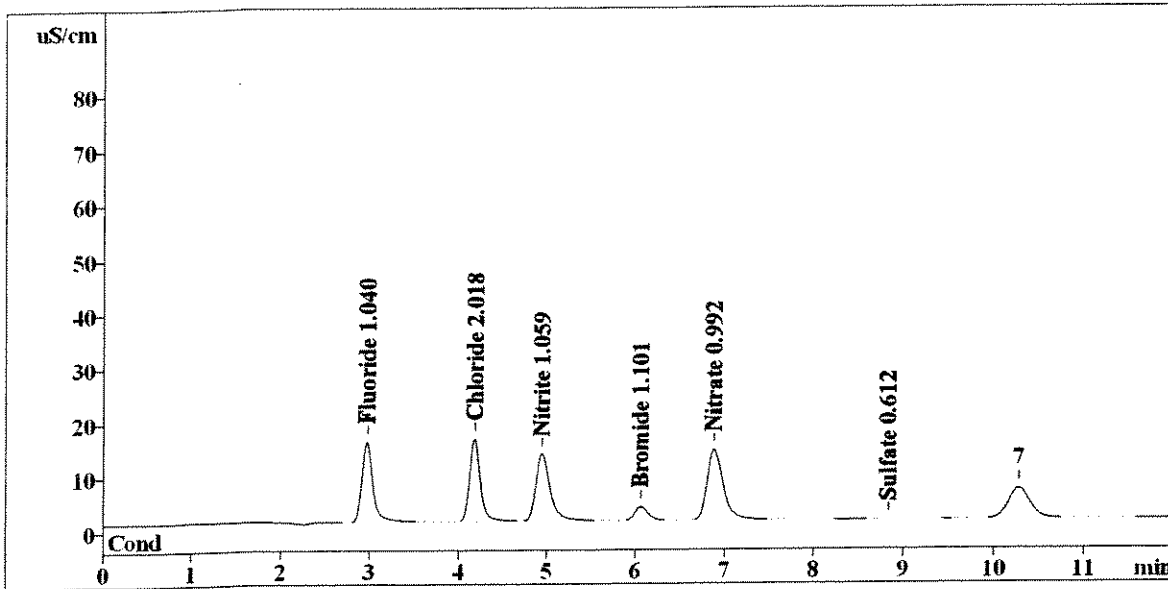
SD 6/10/08

Report date: 6/10/2008 11:58:53
 Printed by: User
 Ident: STANDARD 6
 Analysis from: 6/10/2008 11:46:56
 File: S6101146.CHW

Last save: 6/10/2008 11:59:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36788
 SAMPLE:
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:44:55



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	124.889	1.040	Fluoride
2	4.17	128.121	2.018	Chloride
3	4.94	139.796	1.059	Nitrite
4	6.06	26.684	1.101	Bromide
5	6.88	161.167	0.992	Nitrate
6	8.85	0.092	0.612	Sulfate
6	12.00	580.751	6.821	

Reprocess for SO4 R.T.

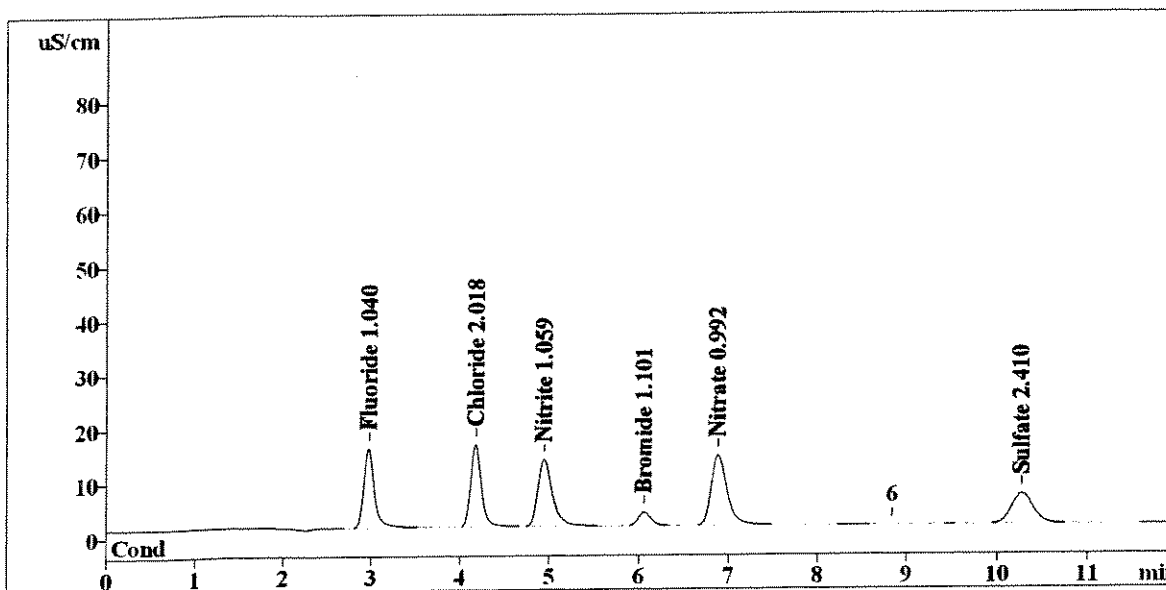
This report has been created by IC Net
 METROHM LTD

TC 6/10/08

Report date: 6/10/2008 13:18:24
 Printed by: User
 Ident: STANDARD 6
 Analysis from: 6/10/2008 11:46:56
 File: s6101146.chw
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36788
 SAMPLE:
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:59:01

Last save: 6/10/2008 11:44:55



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	124.889	1.040	Fluoride
2	4.17	128.121	2.018	Chloride
3	4.94	139.796	1.059	Nitrite
4	6.06	26.684	1.101	Bromide
5	6.88	161.167	0.992	Nitrate
6	10.28	98.215	2.410	Sulfate
6	12.00	678.874	8.619	

Reprocessed
OK

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TC 6/10/08

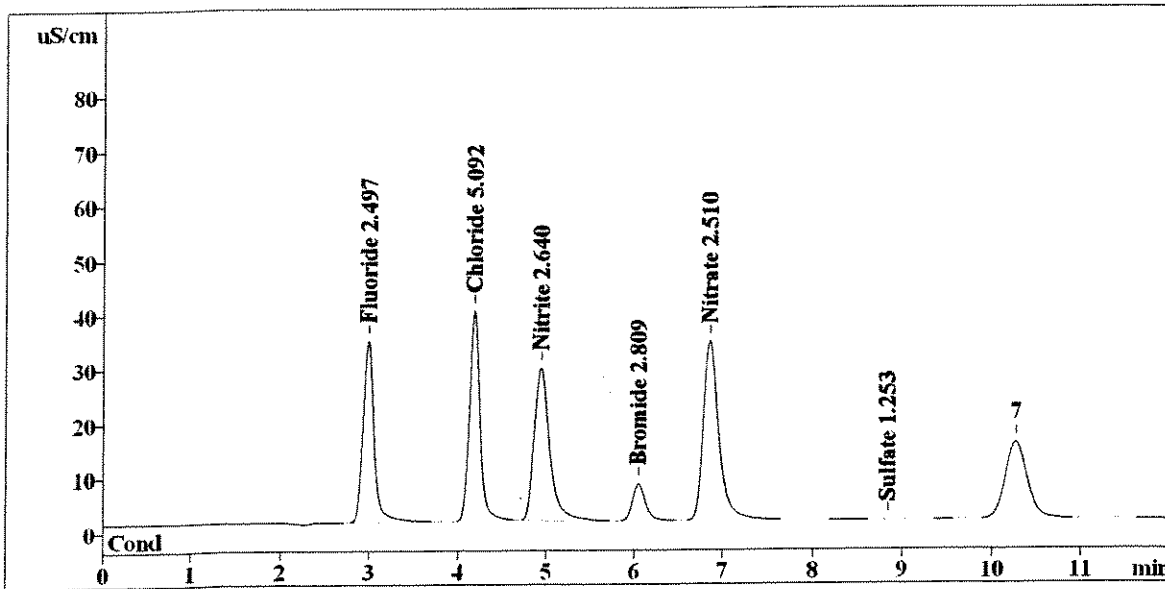
SD 6/12/08

Report date: 6/10/2008 12:12:58
 Printed by: User
 Ident: STANDARD 7
 Analysis from: 6/10/2008 12:01:01
 File: S6101201.CHW

Last save: 6/10/2008 12:13:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36789
 SAMPLE:
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:59:01



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.97	291.066	2.497	Fluoride
2	4.17	326.118	5.092	Chloride
3	4.93	346.689	2.640	Nitrite
4	6.04	69.338	2.809	Bromide
5	6.85	412.452	2.510	Nitrate
6	8.84	0.091	1.253	Sulfate
6	12.00	1445.754	16.800	

Reprocess for SO4 RT.

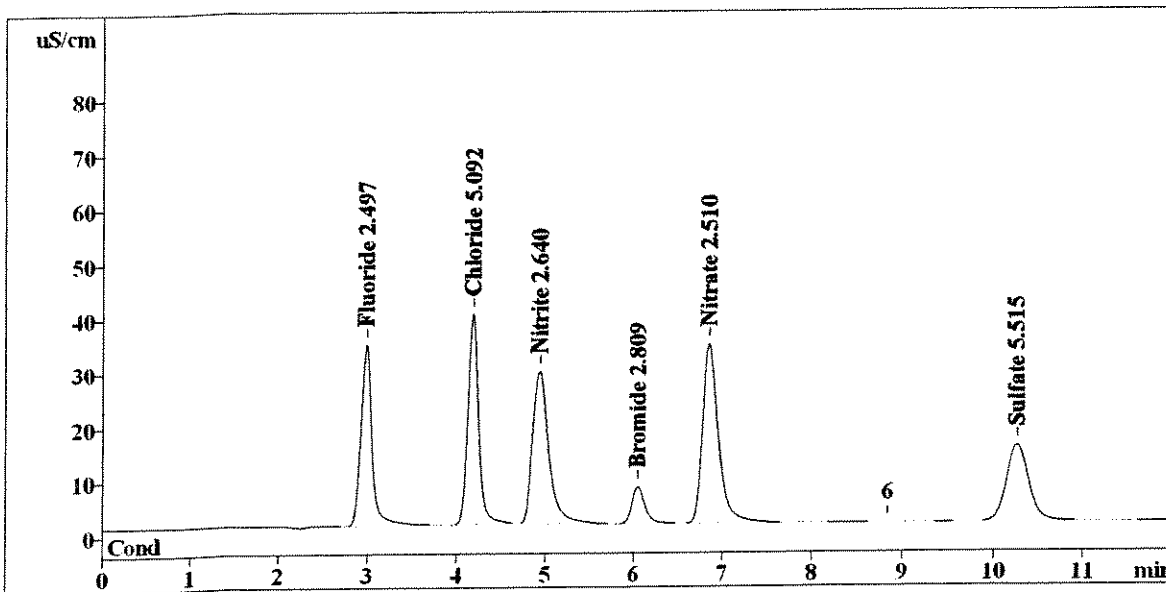
This report has been created by IC Net
 METROHM LTD

TC 6/10/08

Report date: 6/10/2008 13:18:39
 Printed by: User
 Ident: STANDARD 7
 Analysis from: 6/10/2008 12:01:01
 File: s6101201.chw
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36789
 SAMPLE:
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 12:13:07

Last save: 6/10/2008 11:59:01



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.97	291.066	2.497	Fluoride
2	4.17	326.118	5.092	Chloride
3	4.93	346.689	2.640	Nitrite
4	6.04	69.338	2.809	Bromide
5	6.85	412.452	2.510	Nitrate
6	10.27	249.613	5.515	Sulfate
6	12.00	1695.277	21.062	

Reprocessed

OK

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TC 6/10/08

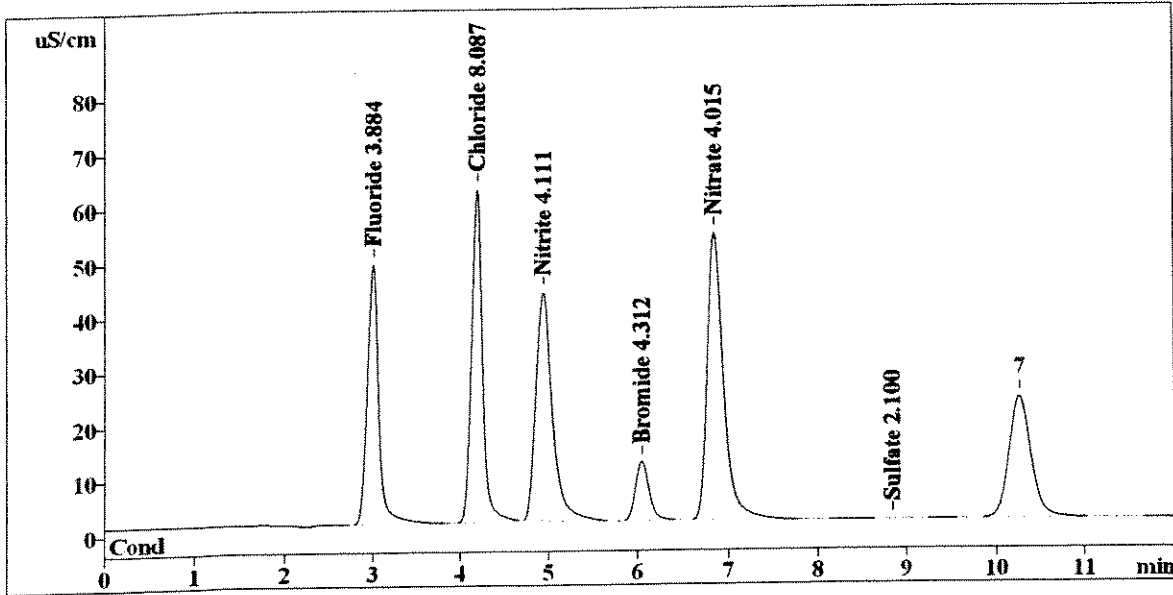
SP 6/10/08

Report date: 6/10/2008 12:27:03
 Printed by: User
 Ident: STANDARD 8
 Analysis from: 6/10/2008 12:15:06
 File: S6101215.CHW

Last save: 6/10/2008 12:27:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36790
 SAMPLE:
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 12:13:07



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.98	440.713	3.884	Fluoride
2	4.17	521.823	8.087	Chloride
3	4.92	547.369	4.111	Nitrite
4	6.04	112.329	4.312	Bromide
5	6.84	662.748	4.015	Nitrate
6	8.84	0.077	2.100	Sulfate
6	12.00	2285.058	26.509	

Reprocess for SO4 R.T.

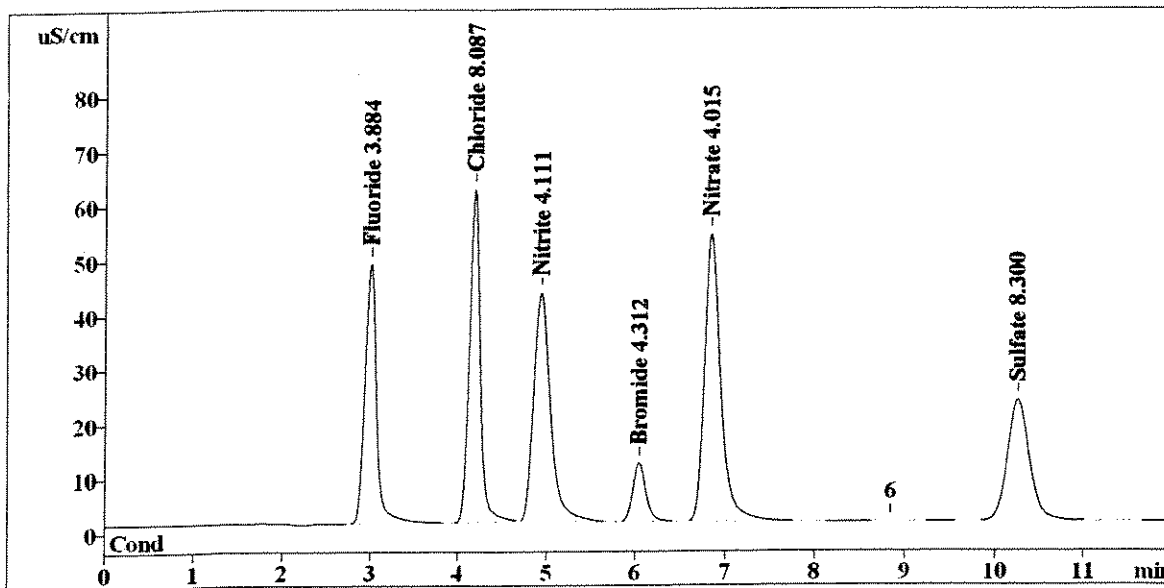
This report has been created by IC Net
 METROHM LTD

TC 6/10/08

Report date: 6/10/2008 13:18:53
 Printed by: User
 Ident: STANDARD 8
 Analysis from: 6/10/2008 12:15:06
 File: s6101215.chw
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36790
 SAMPLE:
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 12:27:13

Last save: 6/10/2008 12:13:07



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.98	440.713	3.884	Fluoride
2	4.17	521.823	8.087	Chloride
3	4.92	547.369	4.111	Nitrite
4	6.04	112.329	4.312	Bromide
5	6.84	662.748	4.015	Nitrate
6	10.26	395.831	8.300	Sulfate
6	12.00	2680.813	32.708	

Reprocessed
OK

This report has been created by IC Net
 METROHM LTD

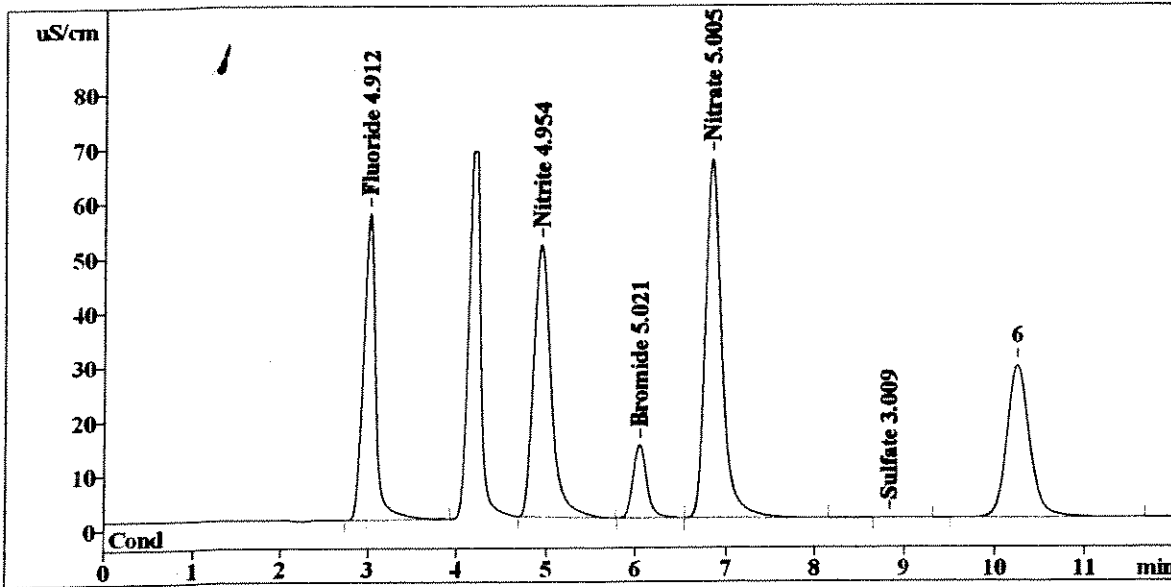
TC 6/10/08
SD 6/10/08

Report date: 6/10/2008 12:41:09
 Printed by: User
 Ident: STANDARD 9
 Analysis from: 6/10/2008 12:29:12
 File: S6101229.CHW

Last save: 6/10/2008 12:41:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36791
 SAMPLE:
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 12:27:13



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.99	540.335	4.912	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.92	673.722	4.954	Nitrite
4	6.04	141.275	5.021	Bromide
5	6.83	829.713	5.005	Nitrate
6	8.84	0.080	3.009	Sulfate
6	12.00	2185.125	22.901	

*Needs
 Reprocess
 for
 SD4
 RT*

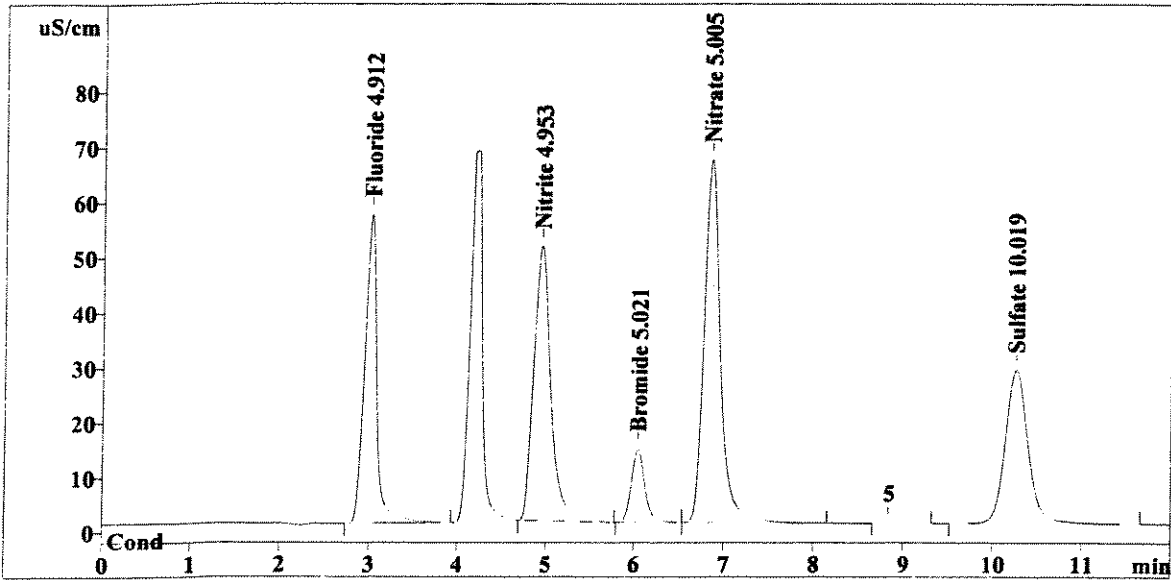
*Realizes
 Needs
 reprocess for
 SD4 to retention
 time*

Report date: 6/10/2008 15:26:11
 Printed by: User
 Ident: STANDARD 9
 Analysis from: 6/10/2008 12:29:12
 File: s6101229.chw

Last save: 6/10/2008 13:47:36

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36791
 SAMPLE:
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 10:14:45



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.99	540.335	4.912	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.92	673.722	4.953	Nitrite
4	6.04	141.275	5.021	Bromide
5	6.83	829.713	5.005	Nitrate
6	10.26	497.998	10.019	Sulfate
6	12.00	2683.043	29.910	

Reprocessed

OK
OK
↓

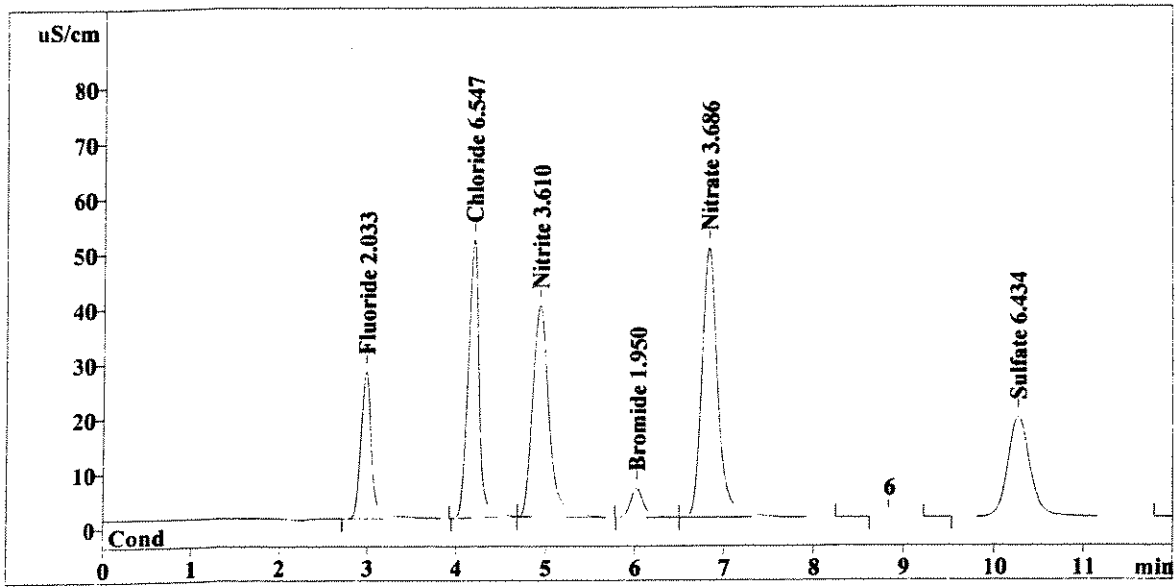
Do Not Report above 8.0 ppm

SD 6/12/08

Report date: 6/10/2008 15:06:55
 Printed by: User
 Ident: ICV
 Analysis from: 6/10/2008 13:52:24
 File: s6101352.chw
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36792
 SAMPLE:
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 14:04:36

Last save: 6/10/2008 13:48:56



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	226.786	2.033	Fluoride
2	4.16	426.728	6.547	Chloride
3	4.91	491.171	3.610	Nitrite
4	6.02	54.440	1.950	Bromide
5	6.81	610.275	3.686	Nitrate
6	10.27	320.183	6.434	Sulfate
6	12.00	2129.582	24.258	

This report has been created by IC Net
 METROHM LTD

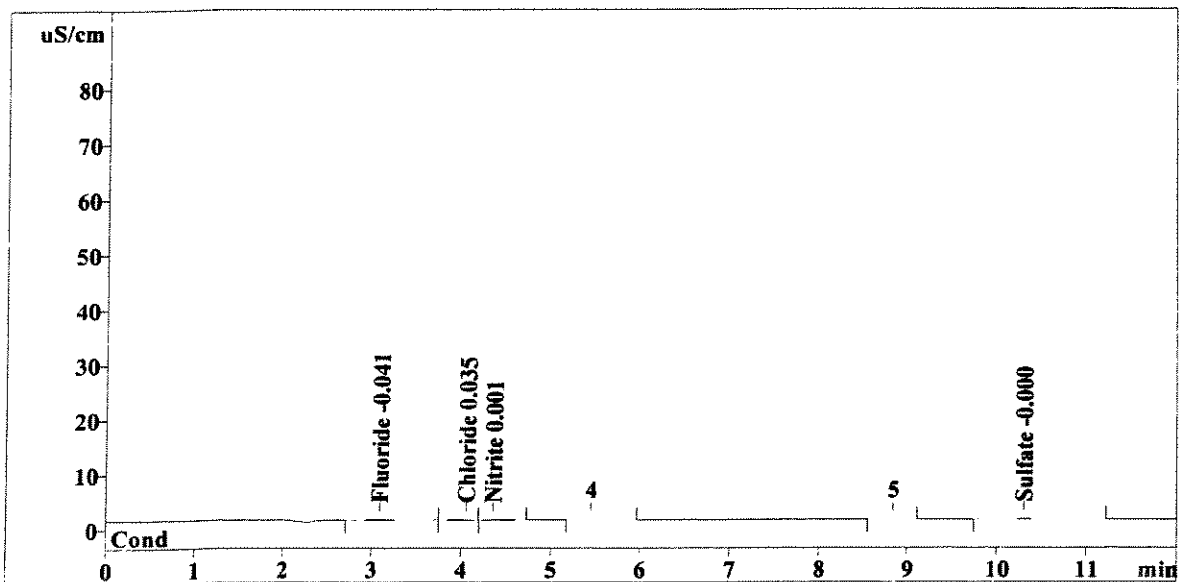
OK Sid 6/12/08

Report date: 6/10/2008 15:03:41
 Printed by: User
 Ident: ICB
 Analysis from: 6/10/2008 14:06:30
 File: s6101406.chw

Last save: 6/10/2008 14:18:42

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36793
 SAMPLE:
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 13:48:56



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.09	1.031	-0.041	Fluoride
2	4.05	0.750	0.035	Chloride
3	4.35	0.917	0.001	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	10.31	1.058	-0.000	Sulfate
6	12.00	3.756	0.077	

This report has been created by IC-Net
 METROHM LTD

OK SD 6/10/08

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861
Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 06/10/2008 **Loop size:** 50 uL Loop

Analyst: Tracy Christ **Analysis Date:** 6/10/08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A		Working Calibration Stds	06/10/08	WC72050H
LCS / MS Intermediate	06/10/08	WC72050A		Working LCS/MS Standard	06/10/08	WC72093A
ICV Intermediate	05/05/08	WC72134B		Working ICV Standard	DAILY	WC72134H
CCV Intermediate	05/05/08	WC72134B		Working CCV Standard	DAILY	WC72134H

Comments:

CALIBRATION EXPIRES ON 12/10/2008

CHORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

CALIBRATION INTERMEDIATE STOCK PREP
(used for Calibration and LCS / MS)

Analyte	1000ppm Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date	Final Calibration Intermediate Stock ID
F	WC85071F	1000	10	200	50	TC	6/10/08	A	12/10/08	WC12-0050 A
Cl	WC85076C	1000	20		100			B		
NO2	WC12000J	1000	10		50			C		
Br	WC85166D	1000	10	12/10/08	50			D		
NO3	WC12000K	1000	10		50			E		
OPO4		1000	10		50			F		
SO4	WC12000L	1000	20		100			G		

WORKING CALIBRATION STANDARDS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. Expire after 7 days.)

Std #	Calibration Intermediate Stock ID	mLs Intermediate Stock	Final Vol. mLs	Final Std Conc.							Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID	
				F	Cl	NO2	Br	NO3	OPO4	SO4						
9		10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	5.0	10.0	TC	6/10/08	H	6/17/08	WC12000H
8		8.0		4.0	8.0	4.0	4.0	4.0	4.0	4.0	8.0			I		
7		205.0 (A1305)		2.5	5.0	2.5	2.5	2.5	2.5	2.5	5.0			J		
6		2.0		1.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0			K		
5		1.0		0.5	1.0	0.50	0.50	0.50	0.50	0.50	1.0			L		
4		0.5		0.25	0.50	0.25	0.25	0.25	0.25	0.25	0.50			M		
3		0.2		0.10	0.20	0.10	0.10	0.10	0.10	0.10	0.20			N		
2		0.1		0.05	0.10	0.05	0.05	0.05	0.05	0.05	0.10			O		
1		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			P		

WORKING LCS PREP

Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	LC120500A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	KC120093A
Cl		100			2.0			B		
NO2		50			1.0			C		
Br		50			1.0			D		
NO3		50			1.0			E		
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

ICV / CCV INTERMEDIATE STOCK PREP

Analyte	ICV / CCV Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date	Final ICV / CCV Intermediate Stock ID
F	WC85657C	1000	4.0	1000	4.0	CMW	3/25/08	A	9/25/08	WC720134A
Cl	WC85106D	650	20.0		13.0	TC	5/5/08	B	9/25/08	WC720134B
NO2	WC72007F	180	40.0		7.2			C		
Br	WC65037D	1000	4.0		4.0			D		
NO3	WC72007N	180	40.0		7.2			E		
OPO4	---	180	40.0		7.2			F		
SO4	WC72006Y	3200	4		12.8			G		

WORKING ICV / CCV PREP

(A 1:2 dilution of the Reference Intermediate Stock is done daily)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Final Working ICV / CCV ID
F	WC720134A	4.0	5.0	10.0	2.0	CMW	DAILY	AH	WC720134H
Cl		13.0			6.5				
NO2		7.2			3.6				
Br		4.0			2.0				
NO3		7.2			3.6				
OPO4		7.2			3.6				
SO4		12.8			6.4				

CMW
AH
09/25/08

CCV

Run #: 163797
 Analyte: BROMIDE 9056
 Printed: 07/11/08 11:42

BROMIDE BY ION CHROMATOGRAPHY

44538
 44650

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED		DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT						ANALYZED		
ESMP	R2844538	✓ 1109708	WATER	1.00	U	10.0	0.100			07/10/08		ASPB
CHK5		✓ 1116771	WATER	2.08		1.0	0.100	104.0		07/10/08		
BLK4		✓ 1116772	WATER	0.100	U	1.0	0.100			07/10/08		
SPKB		✓ 1116773	WATER	1.07		1.0	0.100	107.3		07/10/08		
SPKB		✓ 1116774	WATER	0.976		1.0	0.100	97.6		07/11/08		
ESMP	R2844538	✓ 1110532	WATER	1.00	U	10.0	0.100			07/10/08		ASPB
ESMP	R2844538	✓ 1111264	WATER	1.41		10.0	0.100			07/10/08	RUN	ASPB
ESMP	R2844538	✓ 1111265	WATER	1.00	U	10.0	0.100			07/10/08	RUN	ASPB
ESMP	R2844538	✓ 1111266	WATER	1.88		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844538	✓ 1111267	WATER	0.769		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844538	✓ 1111763	WATER	1.12		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844538	✓ 1111764	WATER	1.96		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844538	✓ 1111765	WATER	1.00	U	10.0	0.100			07/11/08	RUN	ASPB
LDUP		✓ 1116775	WATER	1.00	U	10.0	0.100			07/11/08		
SPK1		✓ 1116776	WATER	9.91		10.0	0.100	99.1		07/11/08		
ESMP	R2844650	✓ 1112065	WATER	2.27		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112066	WATER	1.07		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112067	WATER	1.00	U	10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112486	WATER	1.00	U	10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112487	WATER	1.00	U	10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112488	WATER	0.788		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112489	WATER	1.00	U	10.0	0.100			07/11/08	RUN	ASPB
LDUP		✓ 1116779	WATER	1.00	U	10.0	0.100			07/11/08		
SPK1		✓ 1116780	WATER	9.59		10.0	0.100	95.9		07/11/08		
ESMP	R2844650	✓ 1112809	WATER	1.00	U	10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1112810	WATER	1.00	U	10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1112811	WATER	1.00	U	10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1112812	WATER	1.00	U	10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1113426	WATER	1.15		10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1113427	WATER	1.00	U	10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1113428	WATER	0.728		10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1113429	WATER	0.800		10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1113430	WATER	1.03		10.0	0.100			07/11/08		ASPB
LDUP		✓ 1116781	WATER	0.972		10.0	0.100		5.79	07/11/08		
SPK1		✓ 1116782	WATER	11.2		10.0	0.100	101.2		07/11/08		

Records printed: 35

Reviewed & Approved

By: S. J. [Signature]

Date: 7/14/08

07-10-08

Data Manually Entered

Analyst: C Woods
 Pipets: Mine
 Lucy

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
1	STANDARD 1	Calibration St	1	20080710.met	710_001.dxd	1	
2	STANDARD 2	Calibration St	2	20080710.met	710_002.dxd	1	
3	STANDARD 3	Calibration St	3	20080710.met	710_003.dxd	1	
4	STANDARD 4	Calibration St	4	20080710.met	710_004.dxd	1	
5	STANDARD 5	Calibration St	5	20080710.met	710_005.dxd	1	
6	STANDARD 6	Calibration St	6	20080710.met	710_006.dxd	1	
7	STANDARD 7	Calibration St	7	20080710.met	710_007.dxd	1	
8	STANDARD 8	Calibration St	8	20080710.met	710_008.dxd	1	
9	STANDARD 9	Calibration St	9	20080710.met	710_009.dxd	1	
10	ICV	Sample		20080710.met	710_010.dxd	1	
11	ICB	Sample		20080710.met	710_011.dxd	1	
12	LCS	Sample		20080710.met	710_012.dxd	1	
13	1109708	Sample		20080710.met	710_013.dxd	10	B
14	1110532	Sample		20080710.met	710_014.dxd	10	B
15	1110981	Sample		20080710.met	710_015.dxd	10	B
16	1111264	Sample		20080710.met	710_016.dxd	10	B
17	1111265	Sample		20080710.met	710_017.dxd	10	B
18	1111266	Sample		20080710.met	710_018.dxd	10	B
19	1111267	Sample		20080710.met	710_019.dxd	10	B
20	1111763	Sample		20080710.met	710_020.dxd	10	B
21	1111764	Sample		20080710.met	710_021.dxd	10	B
22	1111765	Sample		20080710.met	710_022.dxd	10	B
23	1111765 DUP	Sample		20080710.met	710_023.dxd	10	B
24	1111765 SPK	Sample		20080710.met	710_024.dxd	10	B
25	CCV	Sample		20080710.met	710_025.dxd	1	
26	CCB	Sample		20080710.met	710_026.dxd	1	
27	1112065	Sample		20080710.met	710_027.dxd	10	B
28	1112066	Sample		20080710.met	710_028.dxd	10	B
29	1112067	Sample		20080710.met	710_029.dxd	10	B
30	MTD BLK 6/26/08	Sample		20080710.met	710_030.dxd	1	EXTRACTION: B
31	1112361	Sample		20080710.met	710_031.dxd	10	EXTRACTION: B
32	1112362	Sample		20080710.met	710_032.dxd	10	EXTRACTION: B
33	1112362 DUP	Sample		20080710.met	710_033.dxd	10	EXTRACTION: B
34	1112362 SPK	Sample		20080710.met	710_034.dxd	10	EXTRACTION: B
35	1112364	Sample		20080710.met	710_035.dxd	10	EXTRACTION: B
36	1112486	Sample		20080710.met	710_036.dxd	10	B
37	1112487	Sample		20080710.met	710_037.dxd	10	B
38	1112488	Sample		20080710.met	710_038.dxd	10	B
39	1112489	Sample		20080710.met	710_039.dxd	10	B
40	1112489 DUP	Sample		20080710.met	710_040.dxd	10	B
41	1112489 SPK	Sample		20080710.met	710_041.dxd	10	B
42	CCV	Sample		20080710.met	710_042.dxd	1	
43	CCB	Sample		20080710.met	710_043.dxd	1	
44	LCS	Sample		20080710.met	710_044.dxd	1	
45	1112809	Sample		20080710.met	710_045.dxd	10	B

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
46	1112810	Sample		20080710.met	710_046.dxd	10	B
47	1112811	Sample		20080710.met	710_047.dxd	10	B
48	1112812	Sample		20080710.met	710_048.dxd	10	B
49	1113426	Sample		20080710.met	710_049.dxd	10	B
50	1113427	Sample		20080710.met	710_050.dxd	10	B
51	1113428	Sample		20080710.met	710_051.dxd	10	B
52	1113429	Sample		20080710.met	710_052.dxd	10	B
53	1113430	Sample		20080710.met	710_053.dxd	10	B
54	1113430 DUP	Sample		20080710.met	710_054.dxd	10	B
55	1113430 SPK	Sample		20080710.met	710_055.dxd	10	B
56	CCV	Sample		20080710.met	710_056.dxd	1	
57	CCB	Sample		20080710.met	710_057.dxd	1	
58							

Default Method Path: J:\ACQUDATA\IC\METHOD.AC\IC#4
 Default Data Path: J:\ACQUDATA\IC\DATA\IC#4\071008
 Comment:

02597

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : ICV
 Data File Name : ...\\710_010.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/10/08 18:33:56

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

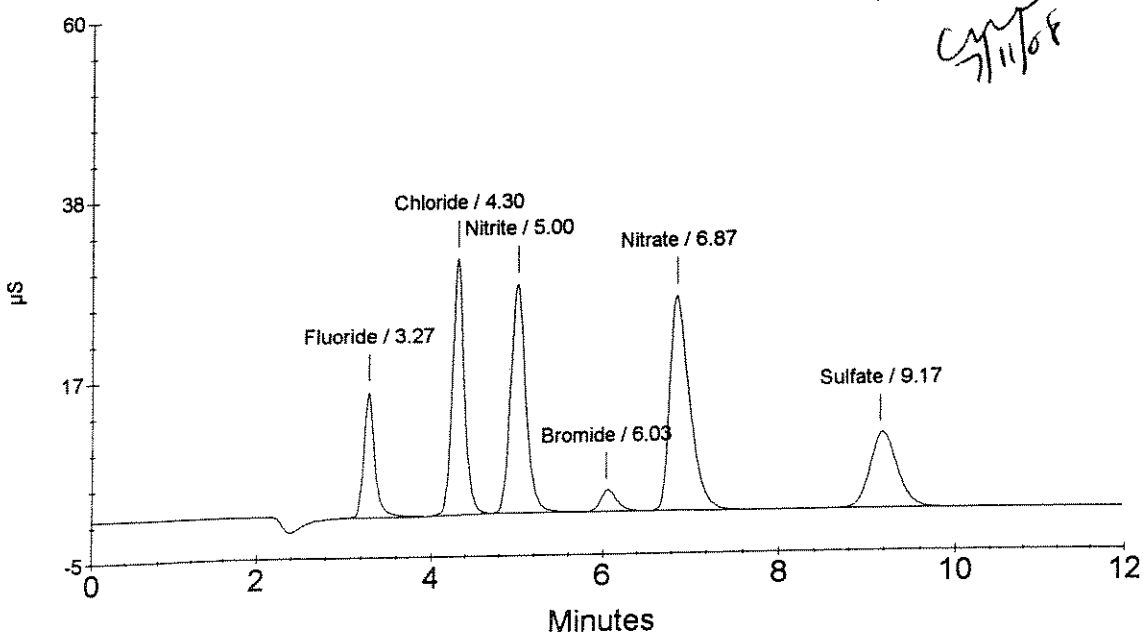
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	1.971	1282742
2	4.30	Chloride	6.370	2995721
3	5.00	Nitrite	3.659	3342989
4	6.03	Bromide	2.080	347083
5	6.87	Nitrate	3.653	4035788
6	9.17	Sulfate	7.679	1929688

OK
 ↓
 CWT
 7/11/08

*Curve not valid for SO₄²⁻ Analysis.
 CWT
 7/11/08*

ICV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICB
Data File Name : ...710_011.DXD
Method File Name : ...20080710.met
Date Time Collected : 7/10/08 18:48:13

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

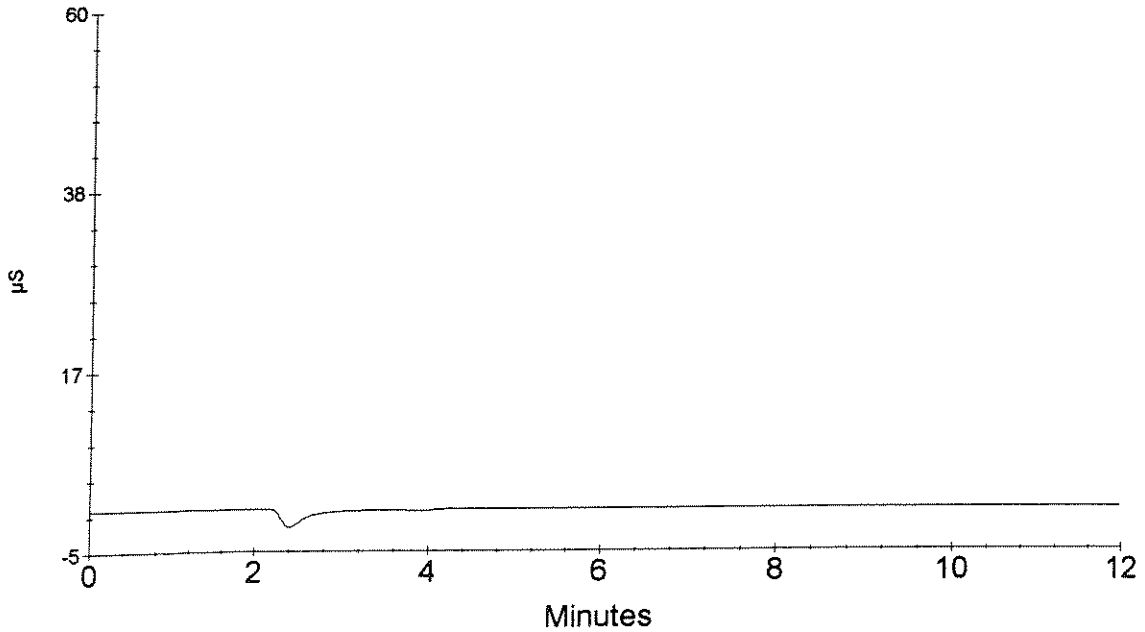
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK
↓
CW
7/11/08

ICB



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : LCS
 Data File Name : ... \710_012.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/10/08 19:02:33

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

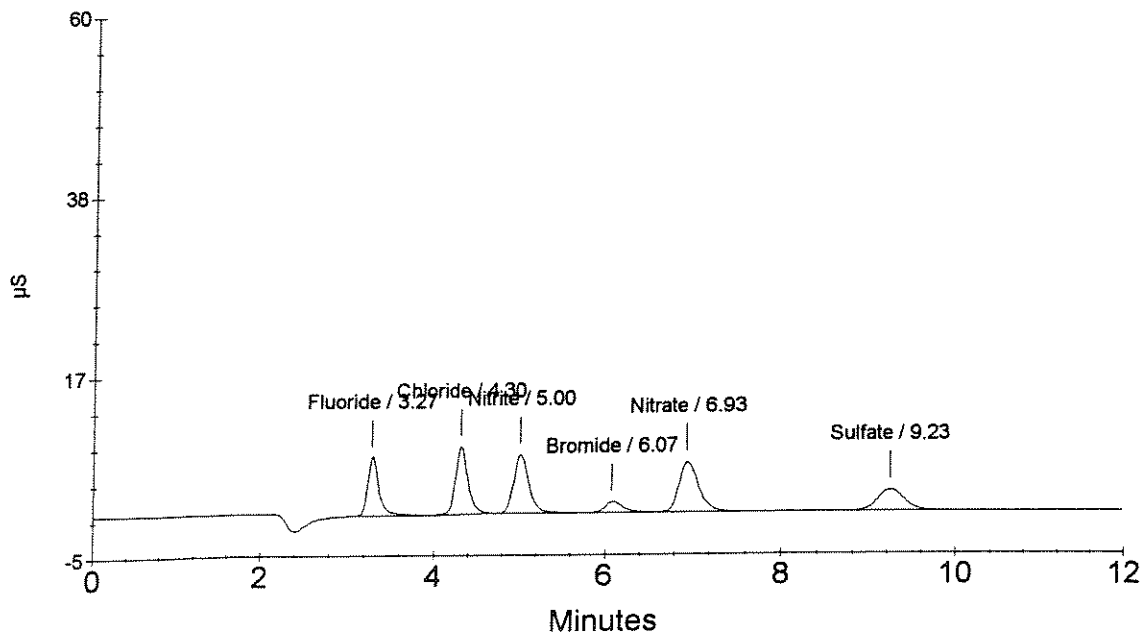
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.966	631941
2	4.30	Chloride	1.791	832583
3	5.00	Nitrite	0.954	856913
4	6.07	Bromide	1.073	182229
5	6.93	Nitrate	0.914	940921
6	9.23	Sulfate	2.152	554582

Handwritten signature
 7/14/08

LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1109708
Data File Name : ...\\710_013.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/10/08 22:51:56

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

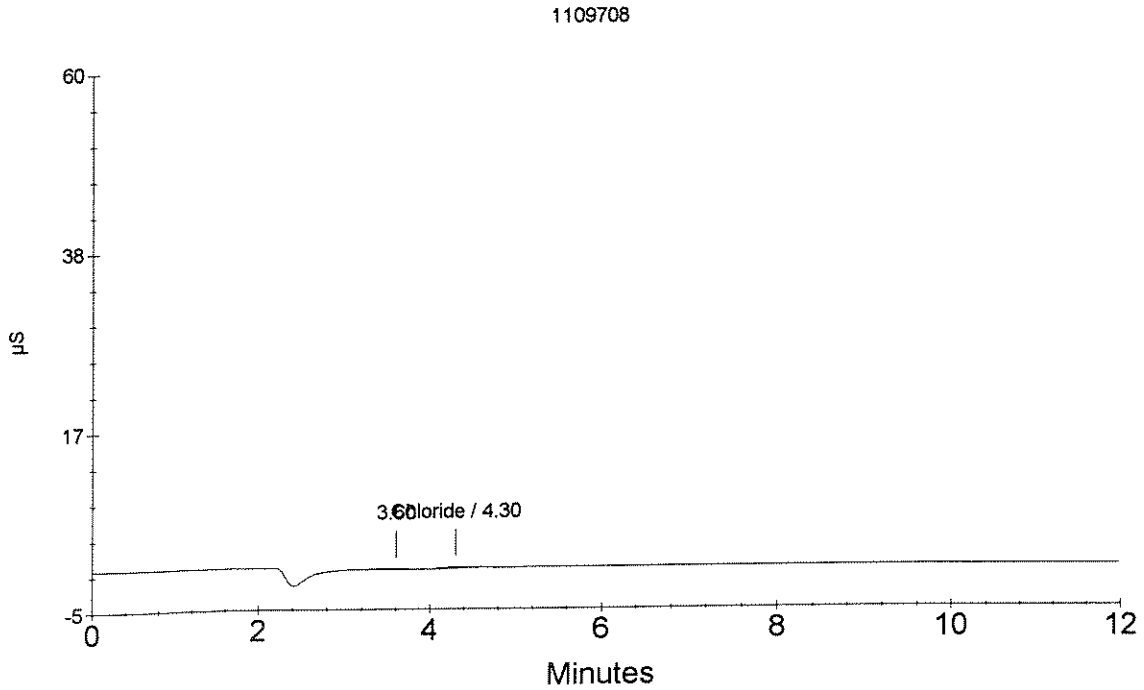
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.60		0.000	41174
2	4.30	Chloride	0.973	32227

Nitrite
Bromide
Nitrate
Sulfate

OK

7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1110532
Data File Name : ... \710_014.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/10/08 23:06:15

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

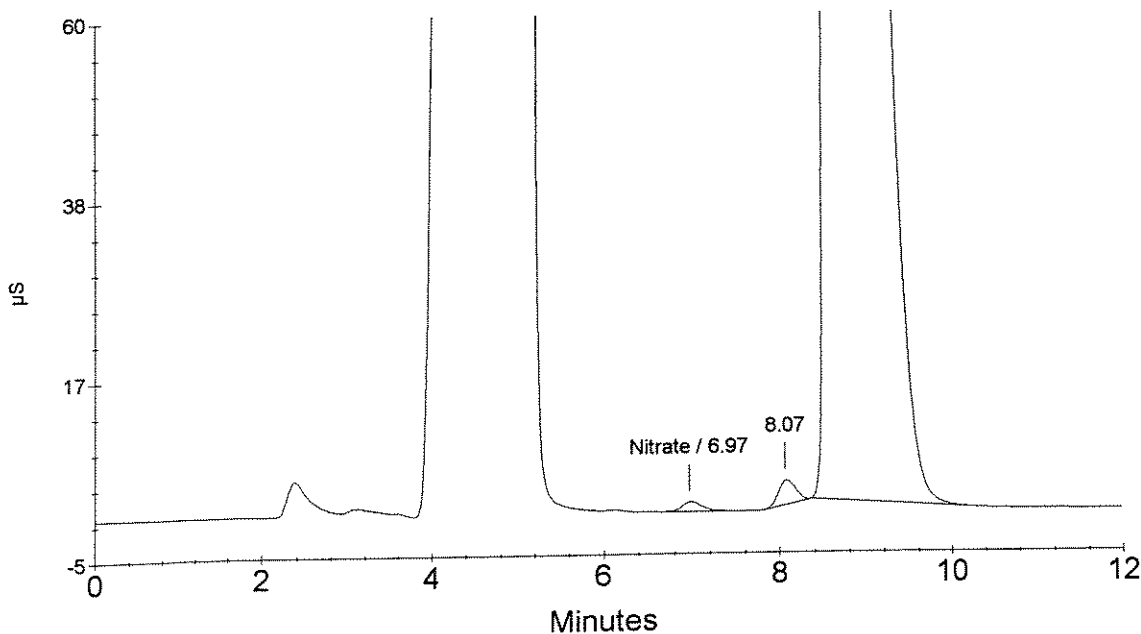
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.50	Chloride	947.027	44729037
1	4.50	Chloride	947.027	44729037
2	5.07	Nitrite	1743.572	160195824
		Bromide		
3	6.97	Nitrate	2.323	170928
5	8.70	Sulfate	5272.883	131194446

~~7/10/08~~
~~Reprocess~~
~~7/10/08~~

1110532



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1110981
 Data File Name : ...710_015.DXD
 Method File Name : ...20080710.met
 Date Time Collected : 7/10/08 23:20:34

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

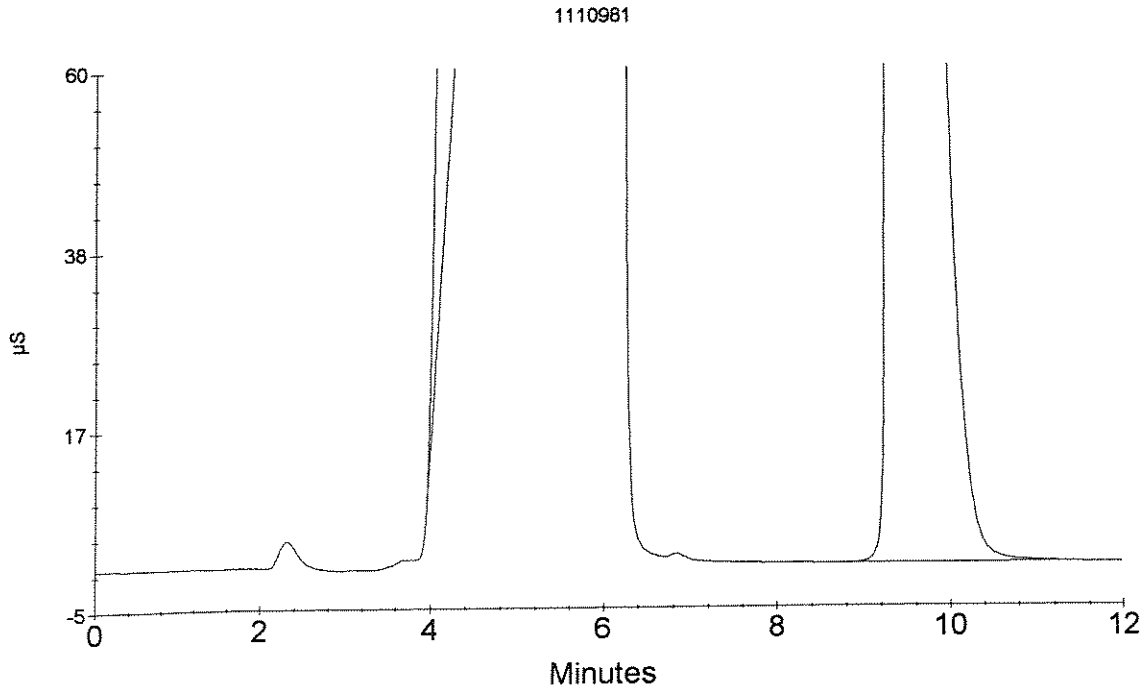
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.70	Chloride	11655.622	550662339
1	4.70	Chloride	11655.622	550662339
		Nitrite		
2	6.13	Bromide	3238.347	53036410
		Nitrate		
3	9.43	Sulfate	4215.410	104887354

Handwritten note:
 rpt @ 1/2 + 1/4
 7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111264
Data File Name : ...\\710_016.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/10/08 23:34:54

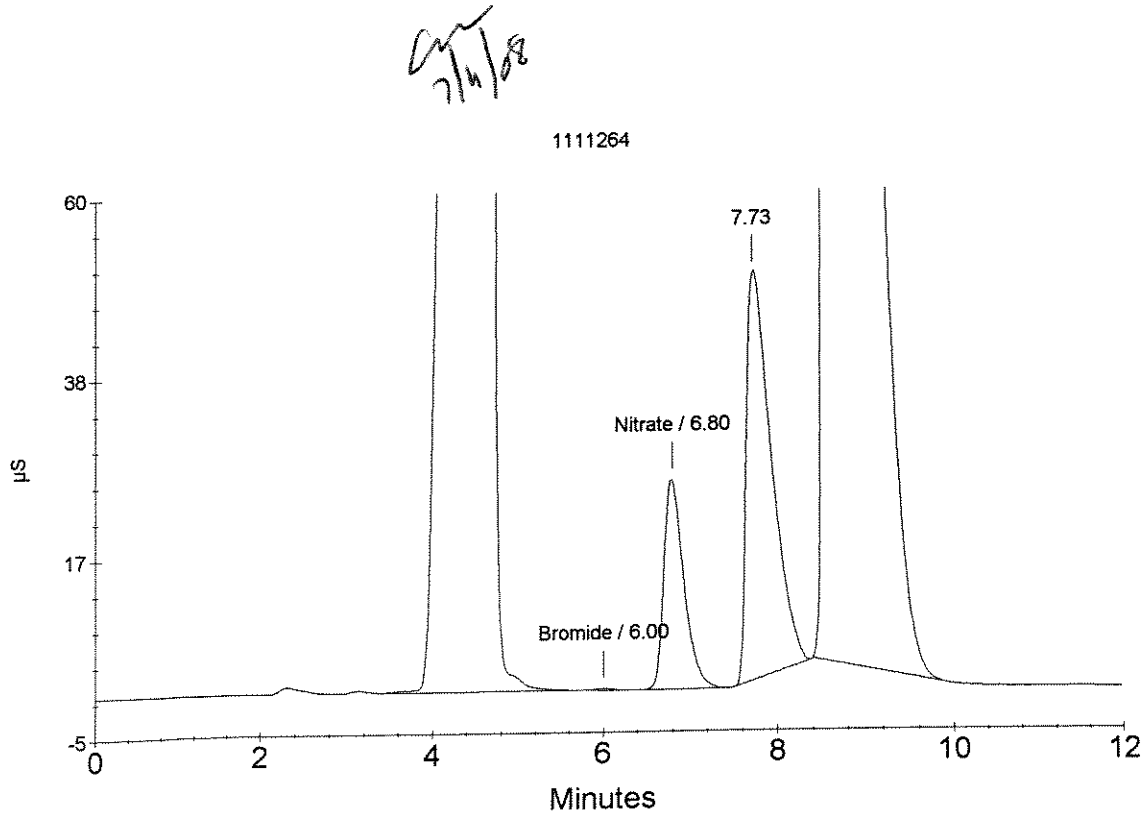
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.60	Chloride	3317.390	156718092
1	4.60	Chloride	3317.390	156718092
		Nitrite		
2	6.00	Bromide <i>OK</i>	1.406	29497
3	6.80	Nitrate	36.227	4001083
5	8.70	Sulfate	4256.532	105910366



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111265
Data File Name : ... \710_017.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/10/08 23:49:14

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

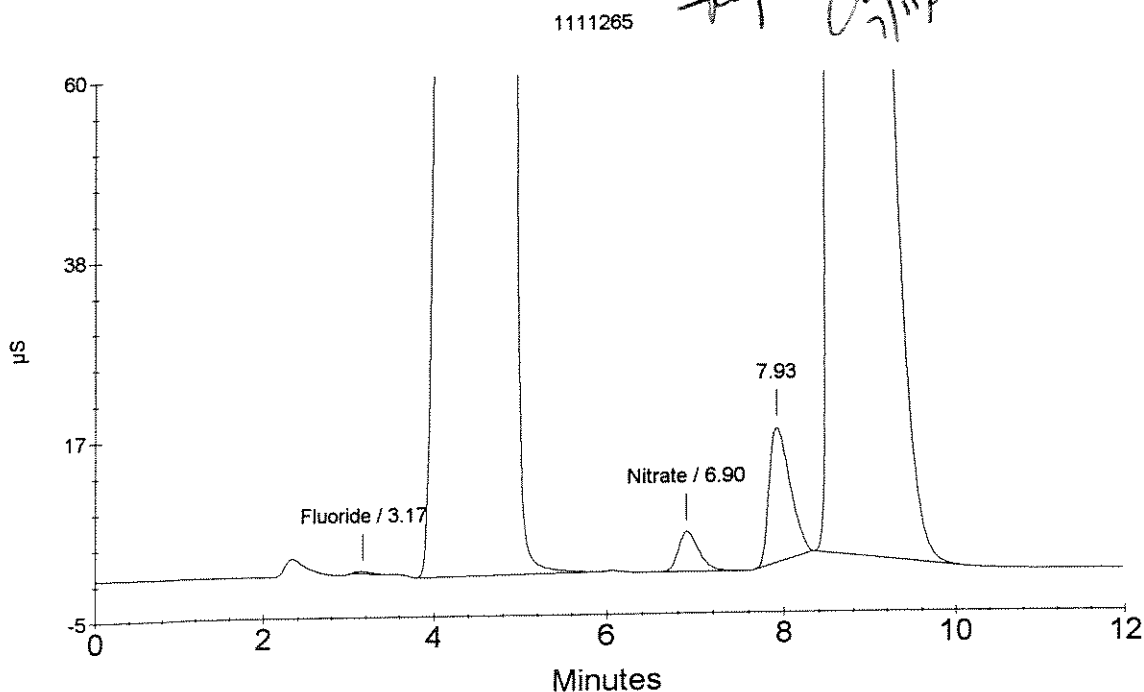
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride Chloride	0.420	33143
2	4.83	Nitrite Bromide	3192.951	293377979
3	6.90	Nitrate	7.659	773719
5	8.70	Sulfate	5022.134	124956487

OK
CW 7/11/08

~~Reprocess~~
CW 7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111266
 Data File Name : ...\\710_018.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 00:03:34

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

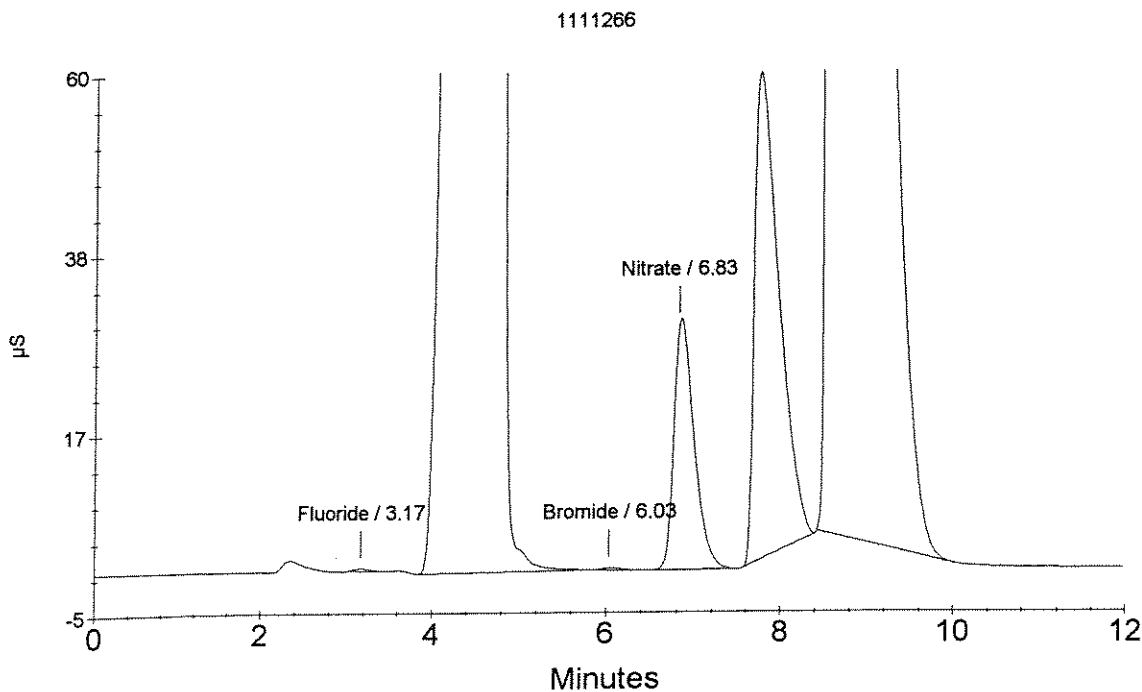
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.391	31258
2	4.70	Chloride	4107.281	194036930
3	6.03	Nitrite <i>OK</i>	1.880	37258
4	6.83	Nitrate	43.239	4793223
6	8.70	Sulfate	5313.973	132216656

OK
7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111267
 Data File Name : ...\\710_019.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 00:17:54

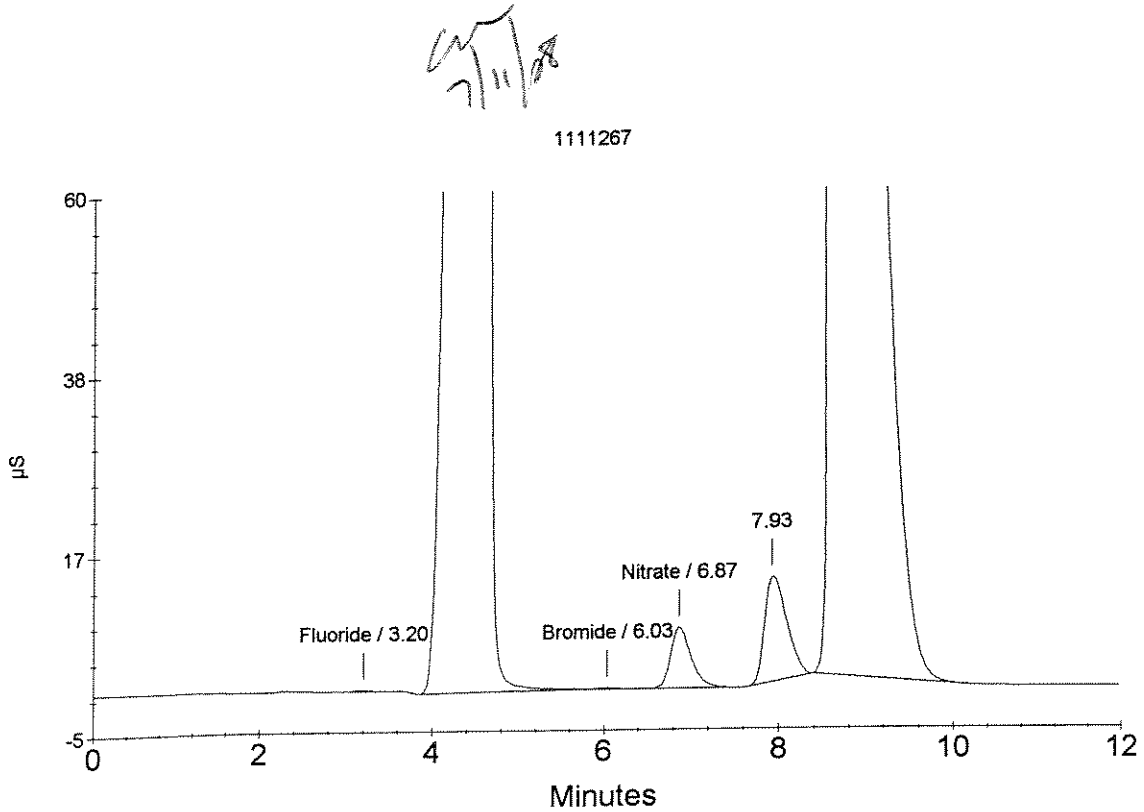
Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.221	20263
2	4.53	Chloride	2474.372	116889241
		Nitrite		
3	6.03	Bromide <i>OK</i>	0.769	19066
4	6.87	Nitrate	11.343	1189954
6	8.73	Sulfate	3732.277	92868301



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111763
 Data File Name : ...\\710_020.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 00:32:14

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

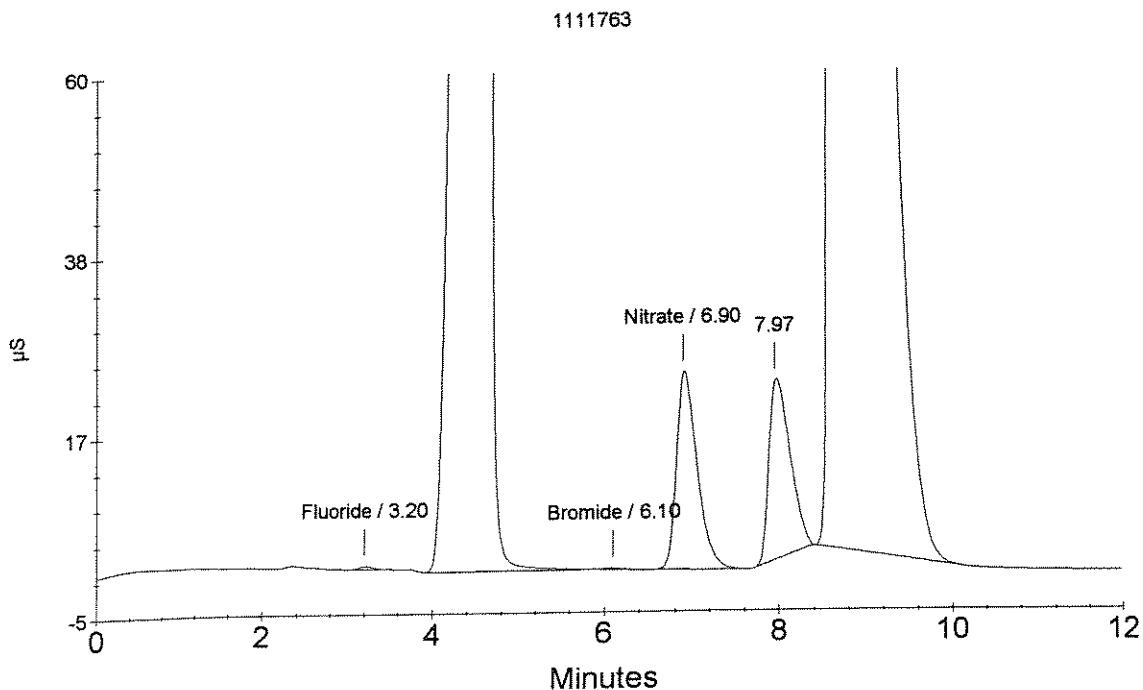
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.556	41930
2	4.57	Chloride	1999.480	94452715
3	6.10	Nitrite Bromide <i>OK</i>	1.116	24762
4	6.90	Nitrate	35.445	3912721
6	8.73	Sulfate	5108.664	127109125

Handwritten signature
 7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111764
Data File Name : ...\\710_021.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 00:46:32

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

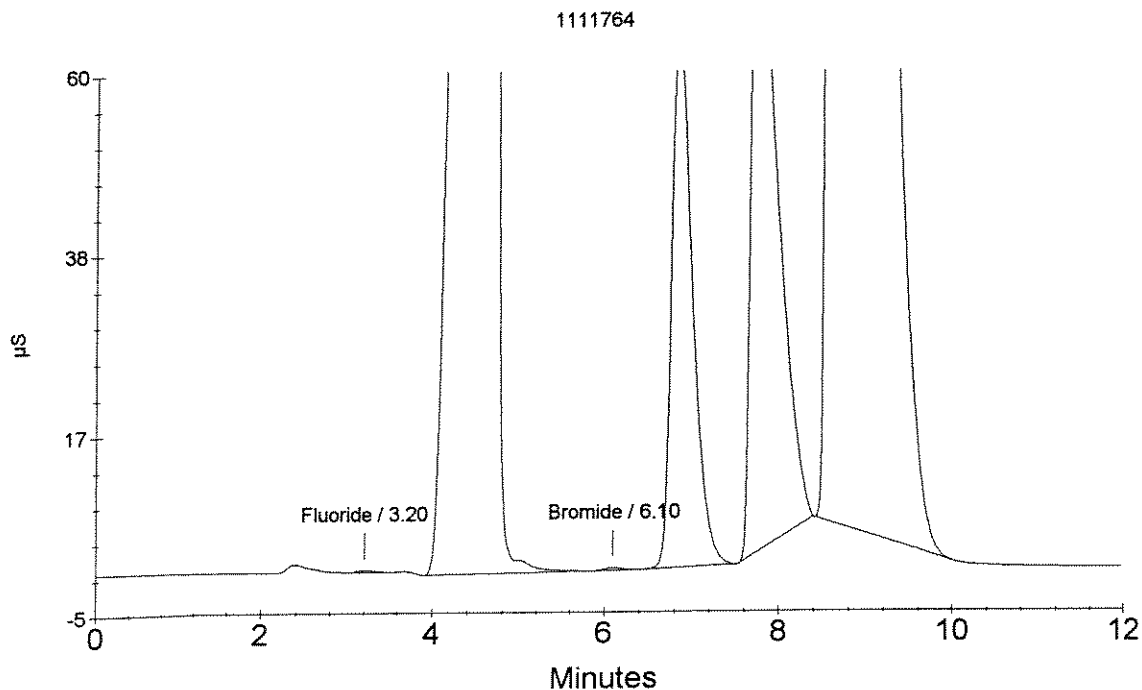
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.356	28992
2	4.63	Chloride	2624.910	124001514
		Nitrite		
3	6.10	Bromide <i>OK</i>	1.964	38641
4	6.83	Nitrate	95.534	10700998
6	8.70	Sulfate	5665.119	140952217

OK
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111765
Data File Name : ...\\710_022.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 01:00:53

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

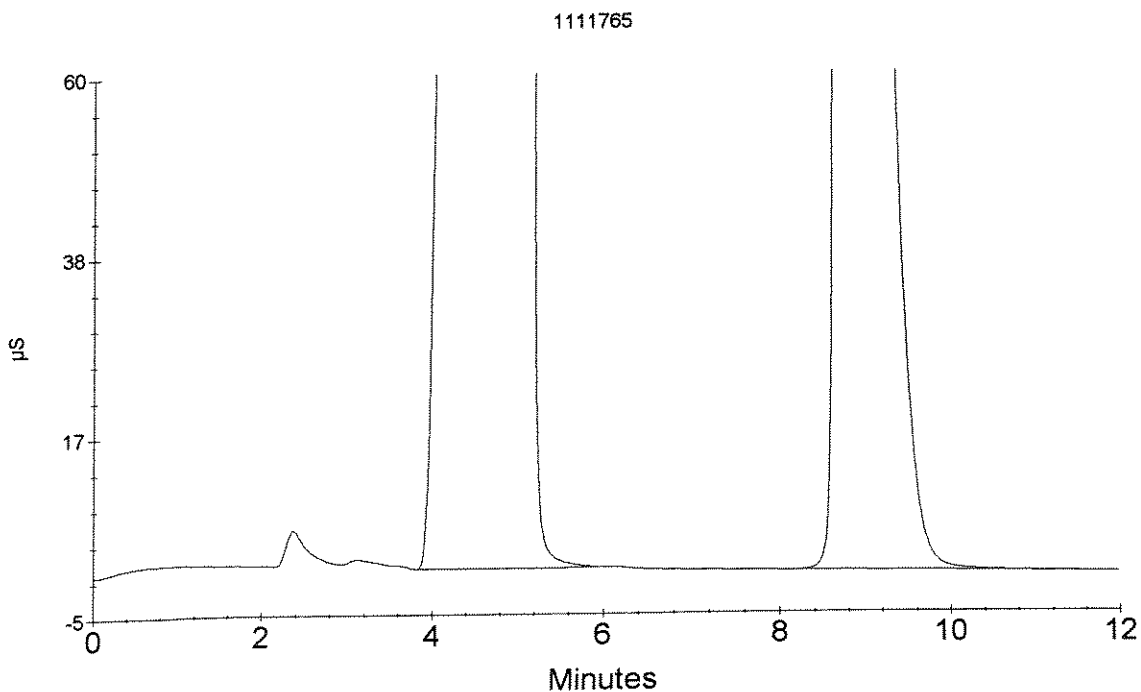
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	5.03	Nitrite Chloride	4736.262	435191481
1	5.03	Nitrite Bromide	4736.262	435191481
2	8.80	Nitrate Sulfate	4158.473	103470924

OK
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111765 DUP
Data File Name : ... \710_023.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/11/08 01:15:11

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

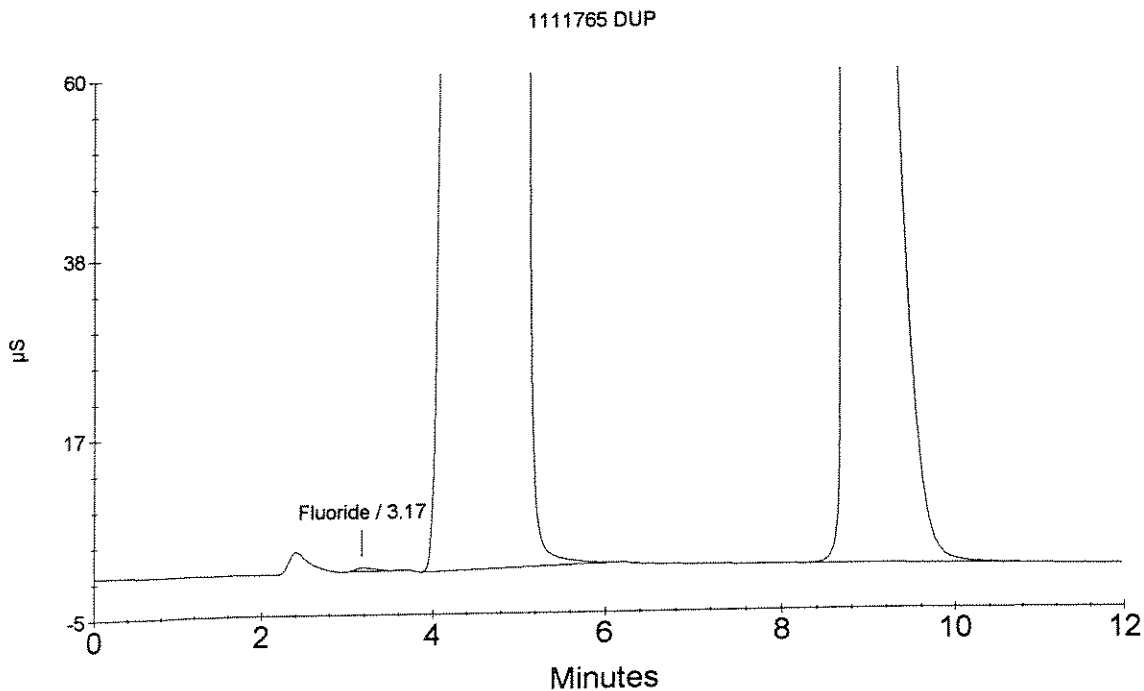
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.879	62836
2	5.00	Chloride	3880.151	356524205
3	8.90	Nitrite	3316.747	82531047
		Bromide		
		Nitrate		
		Sulfate		

OK
CW
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111765 SPK
Data File Name : ...\\710_024.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 01:29:31

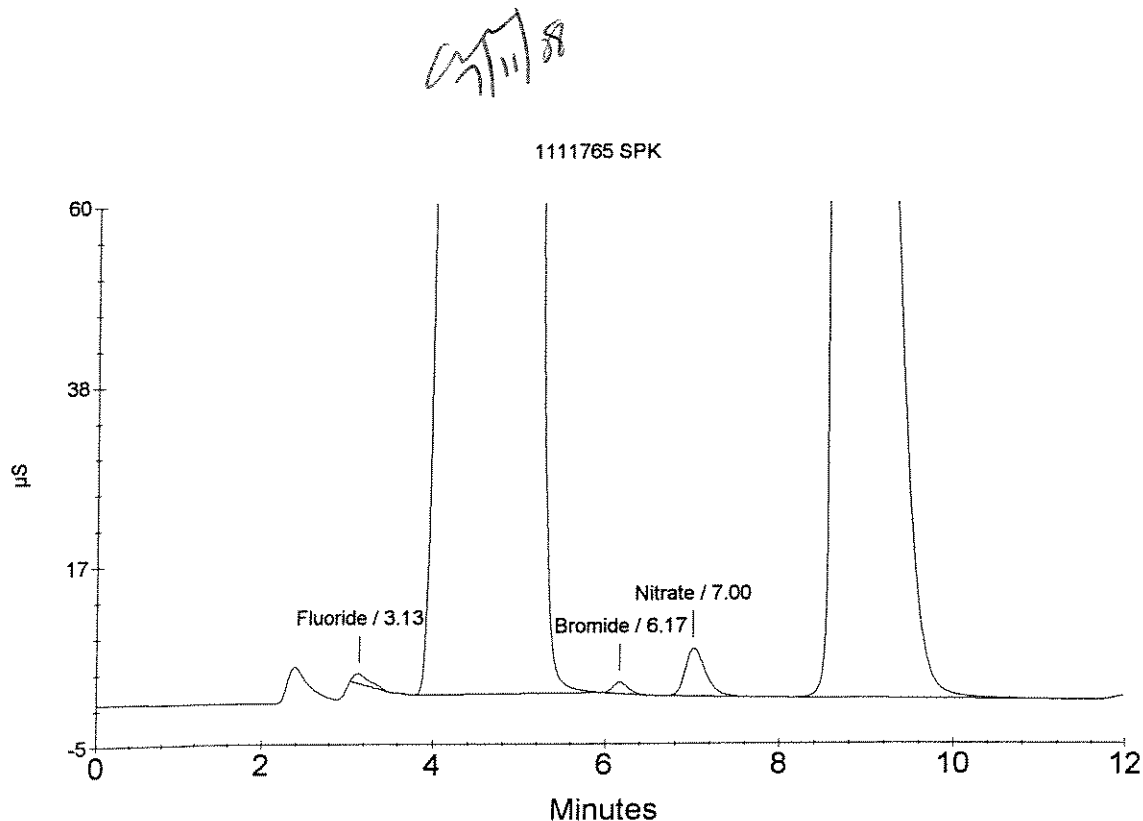
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.13	Fluoride Chloride	2.459	165215
2	5.10	Nitrite	5319.101	488747976
3	6.17	Bromide <i>OK</i>	9.906	168700
4	7.00	Nitrate	8.984	923389
5	8.77	Sulfate	4689.313	116676791



Ion Chromatography Analytical Report
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Sample Name : CCV
Data File Name : ...\\710_025.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 01:43:51

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

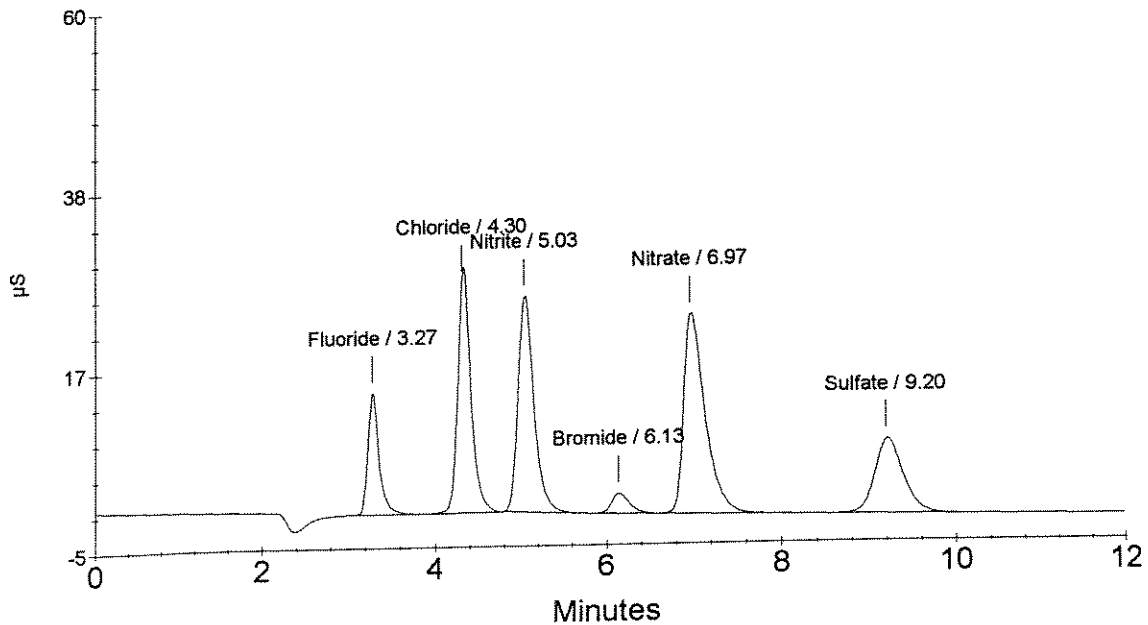
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	2.016	1311891
2	4.30	Chloride	6.665	3135372
3	5.03	Nitrite	3.699	3379864
4	6.13	Bromide <i>OK</i>	2.049	341988
5	6.97	Nitrate	3.733	4126062
6	9.20	Sulfate	8.088	2031249

CWT
7/11/08

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
 Data File Name : ...\\710_026.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 01:58:11

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

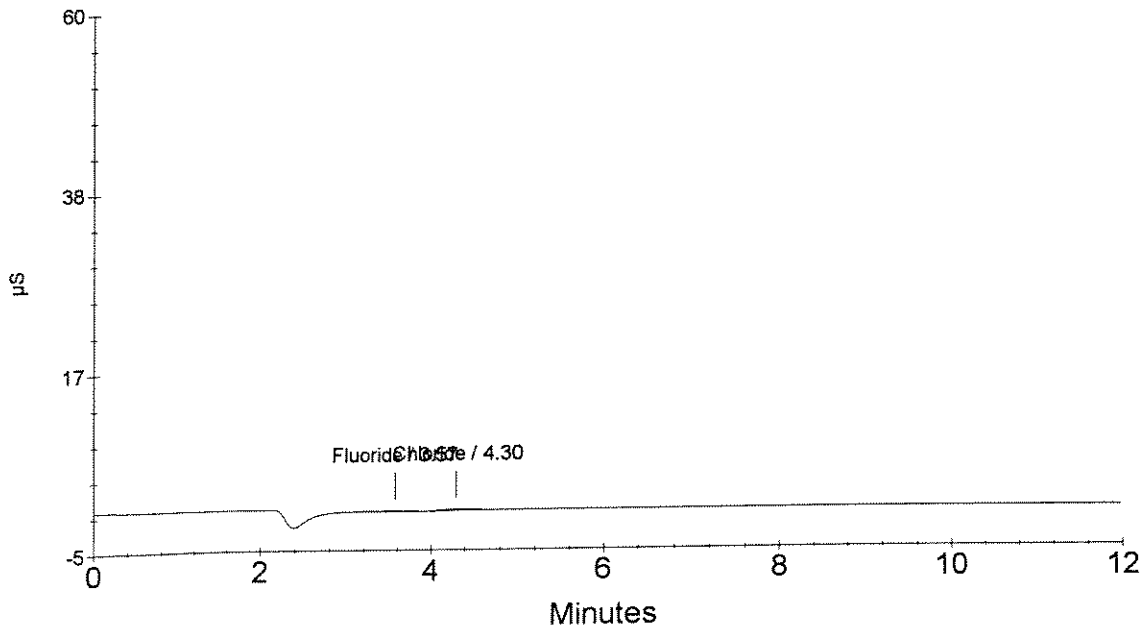
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.045	35051
2	4.30	Chloride	0.099	32987
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
CCB
7/11/08

CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112065
Data File Name : ...\\710_027.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 02:12:30

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

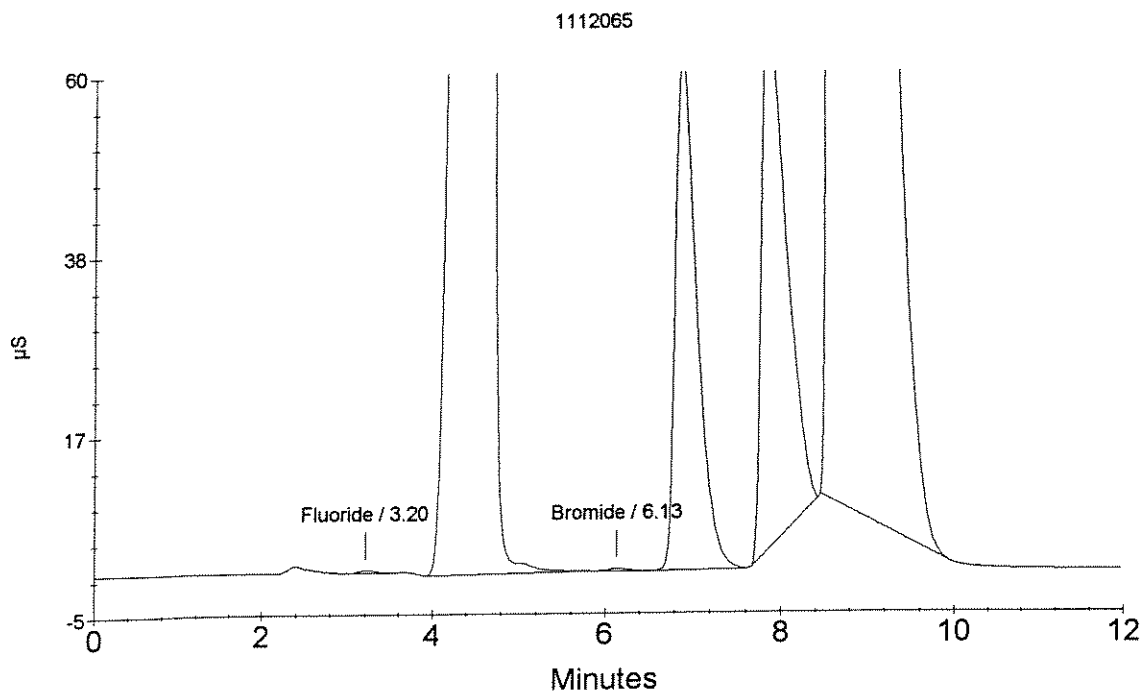
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.483	37237
2	4.60	Chloride	2346.419	110844039
3	6.13	Nitrite	2.270	43657
4	6.90	Bromide	92.715	10382564
6	8.73	Nitrate	5574.987	138709986
		Sulfate		

OK
SM
7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1112066
 Data File Name : ...\\710_028.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 02:26:48

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

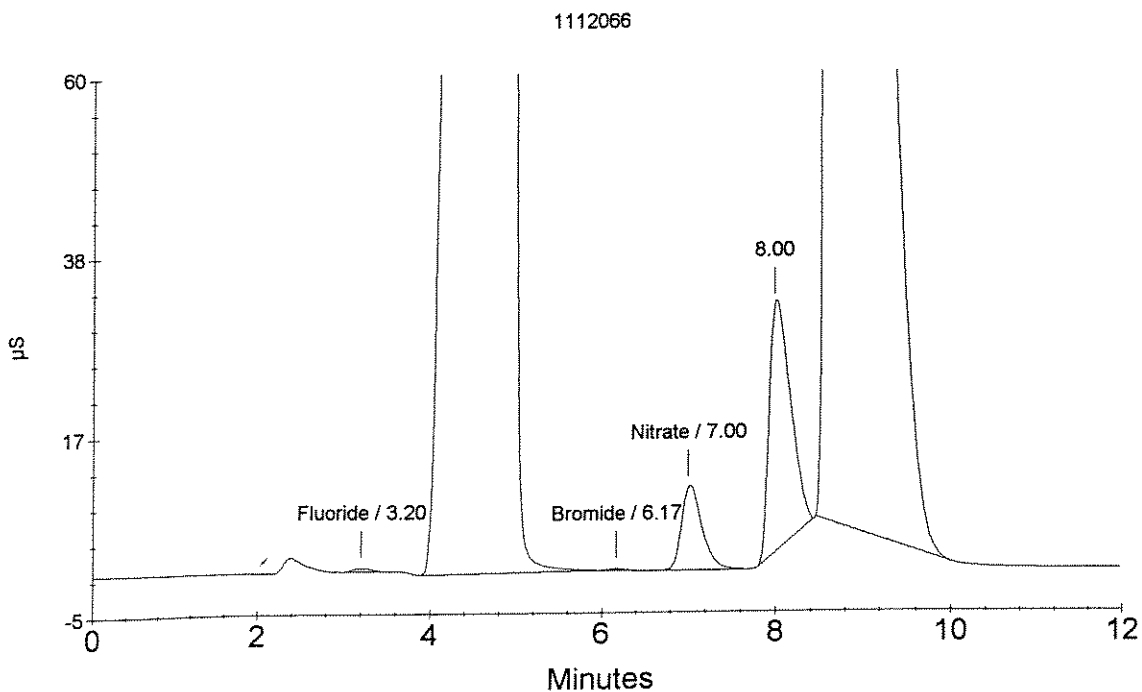
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride Chloride	0.847	60770
2	4.83	Nitrite	2755.089	253143214
3	6.17	Bromide <i>OK</i>	1.074	24068
4	7.00	Nitrate	15.464	1655457
6	8.73	Sulfate	5607.546	139519955

Handwritten signature
 7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
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Sample Name : 1112067
 Data File Name : ... \710_029.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 02:41:08

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

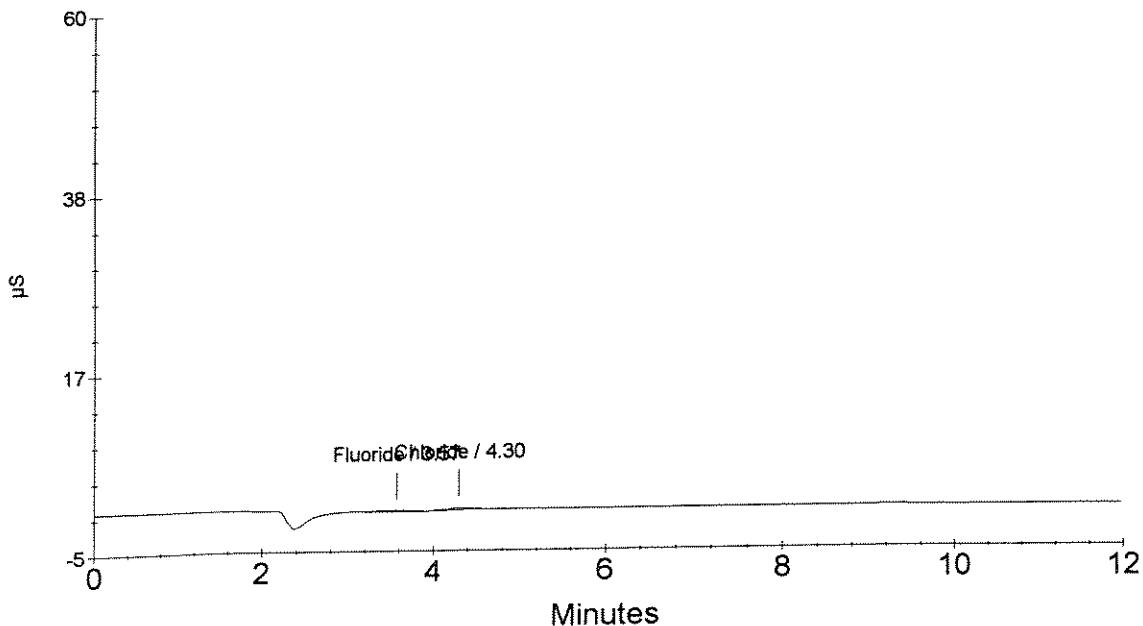
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.421	33166
2	4.30	Chloride	1.124	39351
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
LM
7/11/08

1112067



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : MTD BLK 6/26/08
Data File Name : ...\\710_030.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 02:55:28

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

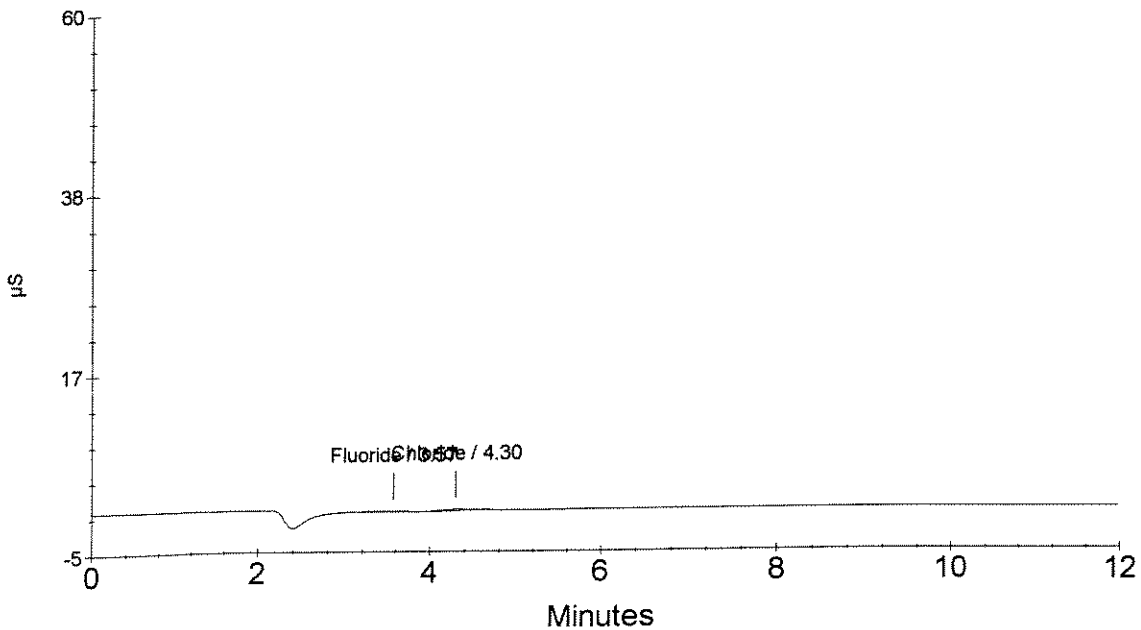
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.045	35118
2	4.30	Chloride Nitrite Bromide Nitrate Sulfate	0.108	37166

OK
CW
7/11/08

MTD BLK 6/26/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1112361
 Data File Name : ...710_031.DXD
 Method File Name : ...20080710.met
 Date Time Collected : 7/11/08 03:09:47

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

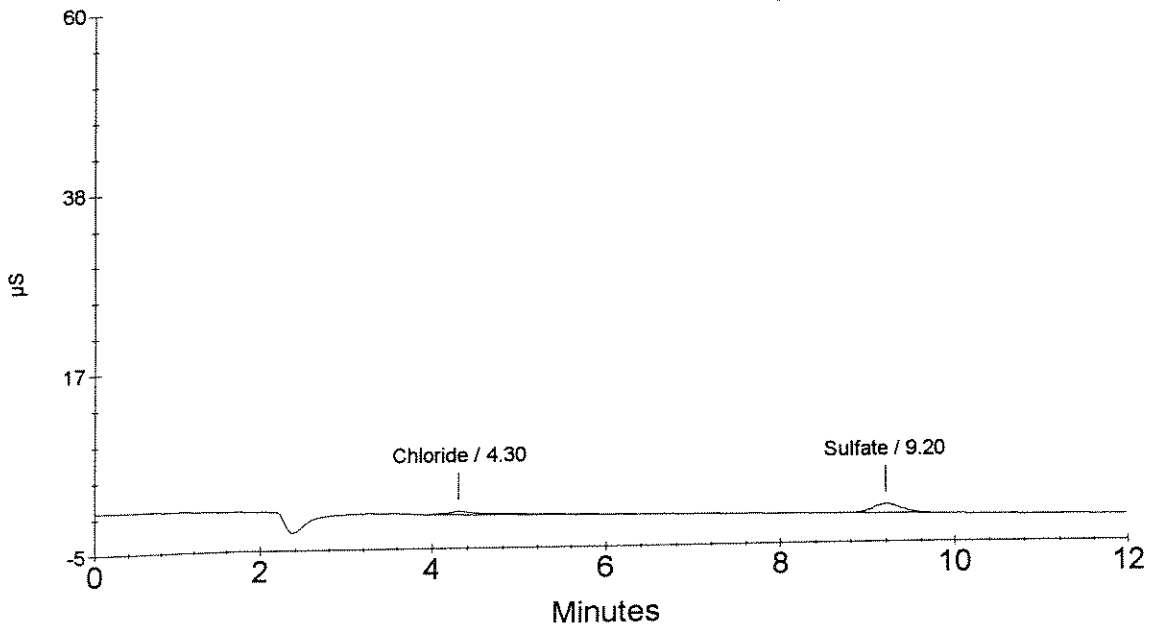
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.30	Chloride	3.605	156561
1	4.30	Chloride	3.605	156561
		Nitrite		
		Bromide		
		Nitrate		
2	9.20	Sulfate	9.157	247095

~~21~~

7/11/08

1112361

Rpt Str.
 7/11/08
 259 → 250mL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112362
Data File Name : ... \710_032.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/11/08 03:24:07

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

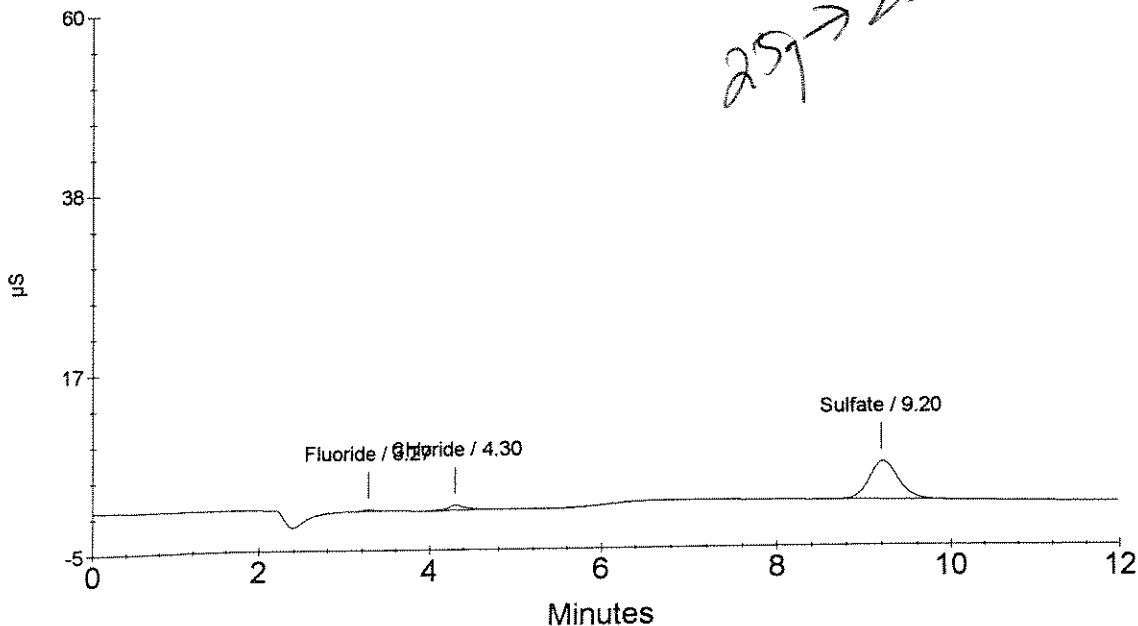
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.153	15809
2	4.30	Chloride Nitrite Bromide Nitrate	2.229	91524
3	9.20	Sulfate	41.877	1061070

7/11/08
1112362

*Rpt str.
CWT
7/11/08
257 → 250 mL*



Ion Chromatography Analytical Report
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 Rochester, NY 14607

Sample Name : 1112362 DUP
 Data File Name : ...710_033.DXD
 Method File Name : ...20080710.met
 Date Time Collected : 7/11/08 03:38:27

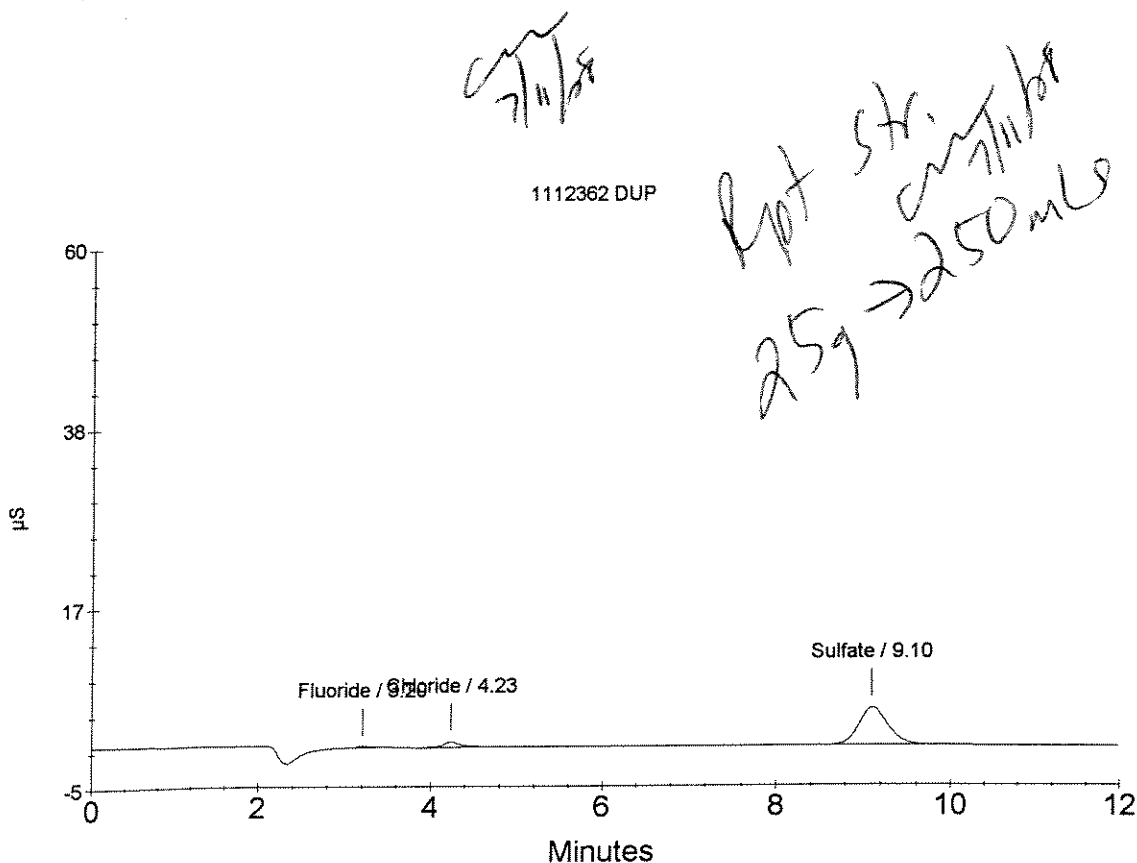
Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.138	14871
2	4.23	Chloride	2.260	93018
		Nitrite		
		Bromide		
		Nitrate		
3	9.10	Sulfate	40.603	1029391



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : 1112362 SPK
Data File Name : ...\\710_034.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 03:52:46

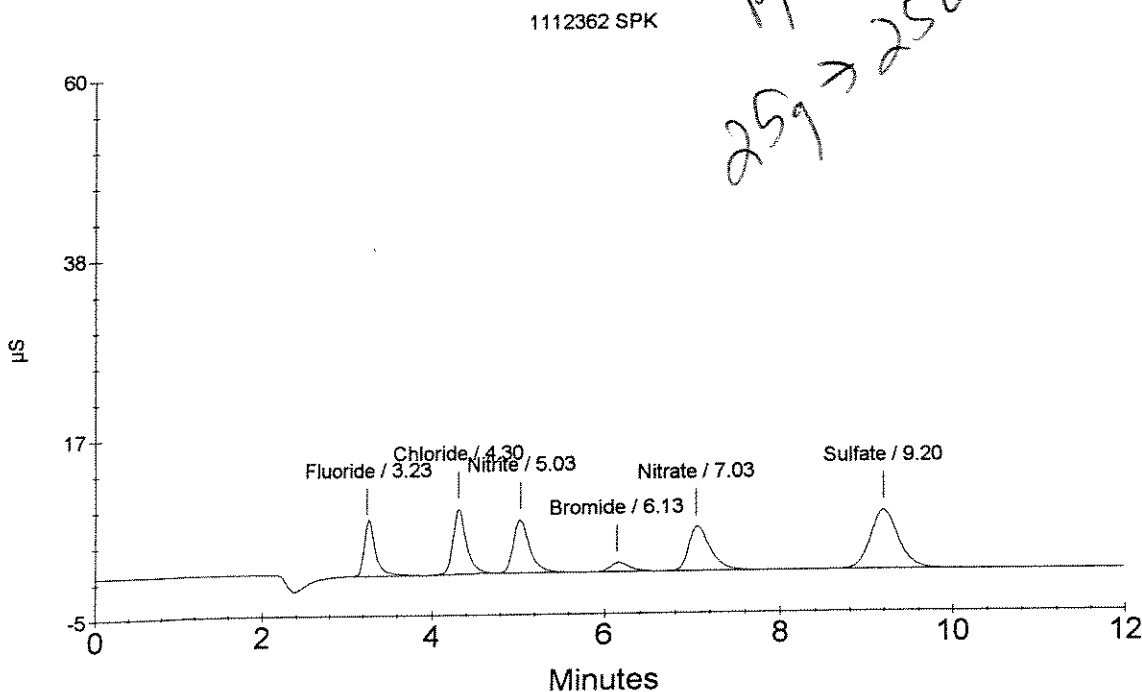
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	9.535	623539
2	4.30	Chloride	18.415	856243
3	5.03	Nitrite	9.240	829663
4	6.13	Bromide <i>OK</i>	9.352	159624
5	7.03	Nitrate	8.924	916623
6	9.20	Sulfate	63.611	1601757



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 Rochester, NY 14607

Sample Name : 1112364
 Data File Name : ...\\710_035.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 04:07:05

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.223	20342
2	4.30	Chloride Nitrite Bromide Nitrate	14.525	672485
3	9.20	Sulfate	53.813	1358016

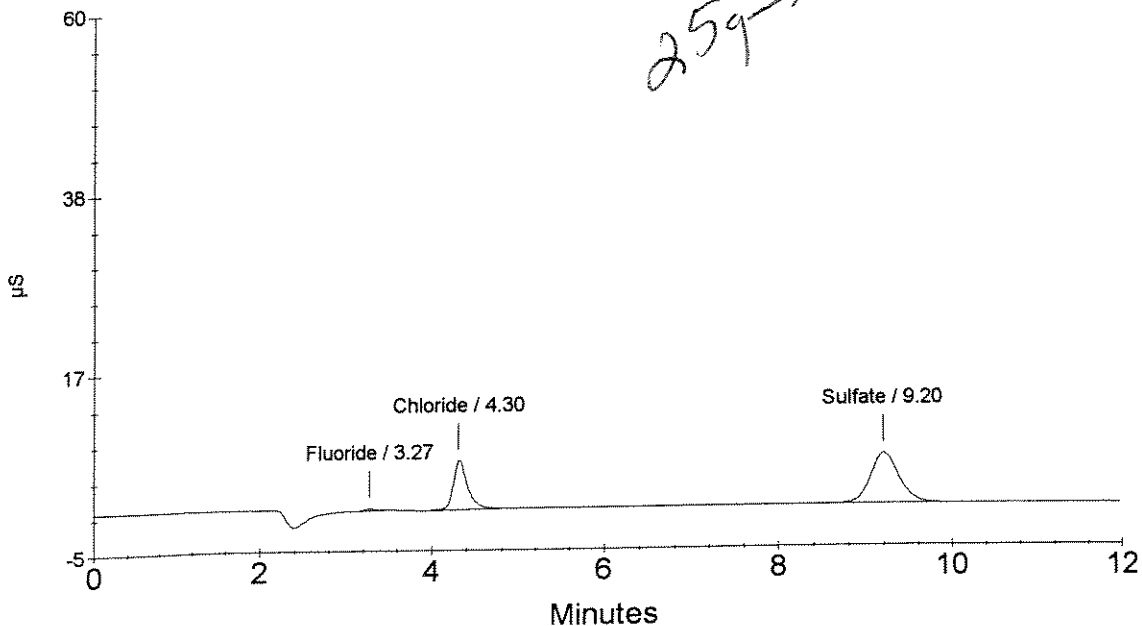
α

7/11/08

1112364

259 → 250mLs

Byt str. 7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112486
Data File Name : ...710_036.DXD
Method File Name : ...20080710.met
Date Time Collected : 7/11/08 04:21:24

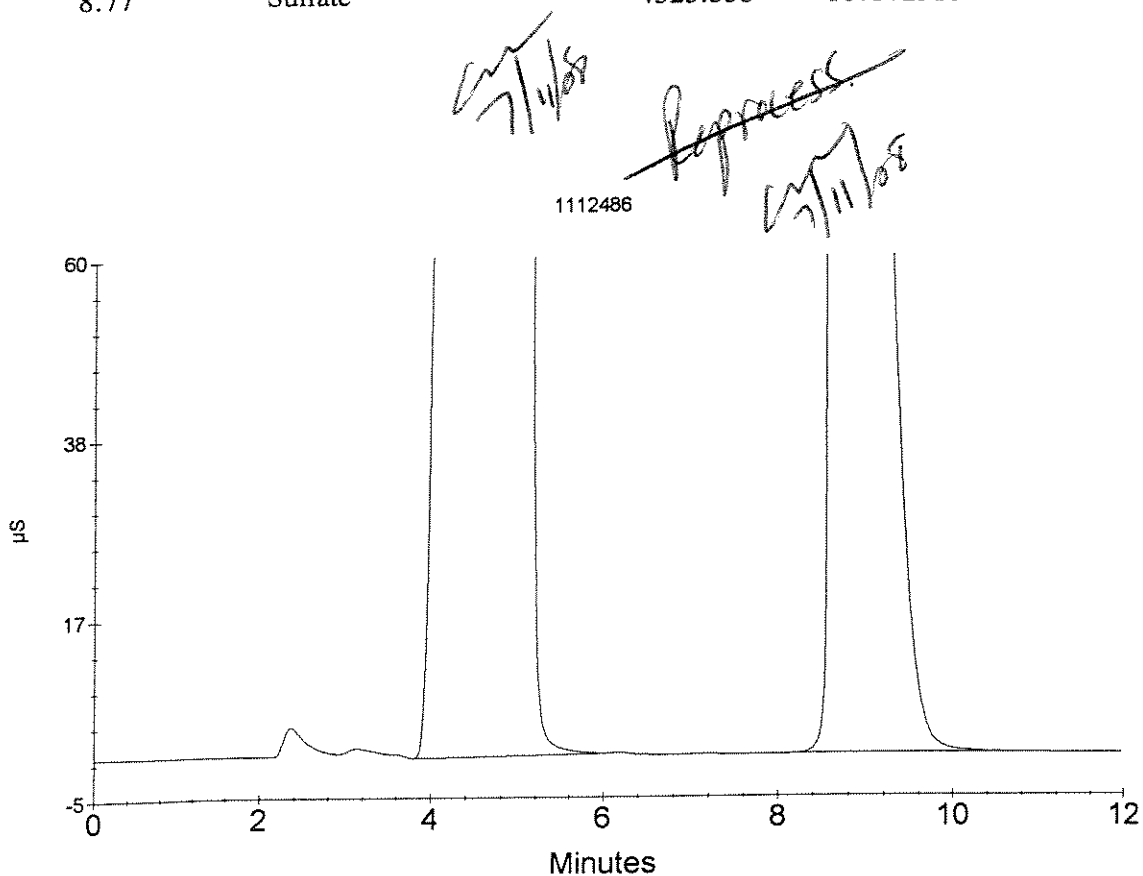
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	5.00	Nitrite Chloride	4551.199	418186192
1	5.00	Nitrite Bromide <i>OK</i>	4551.199	418186192
2	8.77	Nitrate Sulfate	4323.338	107572316



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112487
Data File Name : ...\\710_037.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 04:35:43

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

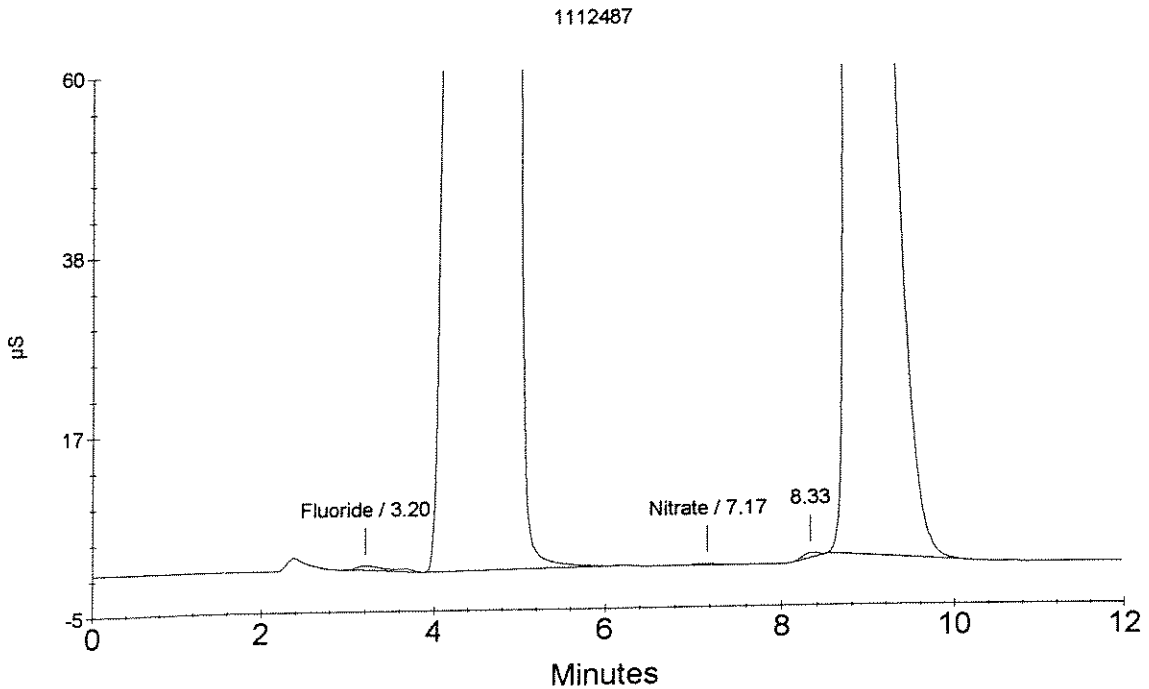
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride Chloride	2.120	143243
2	4.90	Nitrite Bromide	3012.956	276838377
3	7.17	Nitrate	1.049	27062
5	8.90	Sulfate	2845.208	70800427

Handwritten signature
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112488
Data File Name : ...\\710_038.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 04:50:03

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

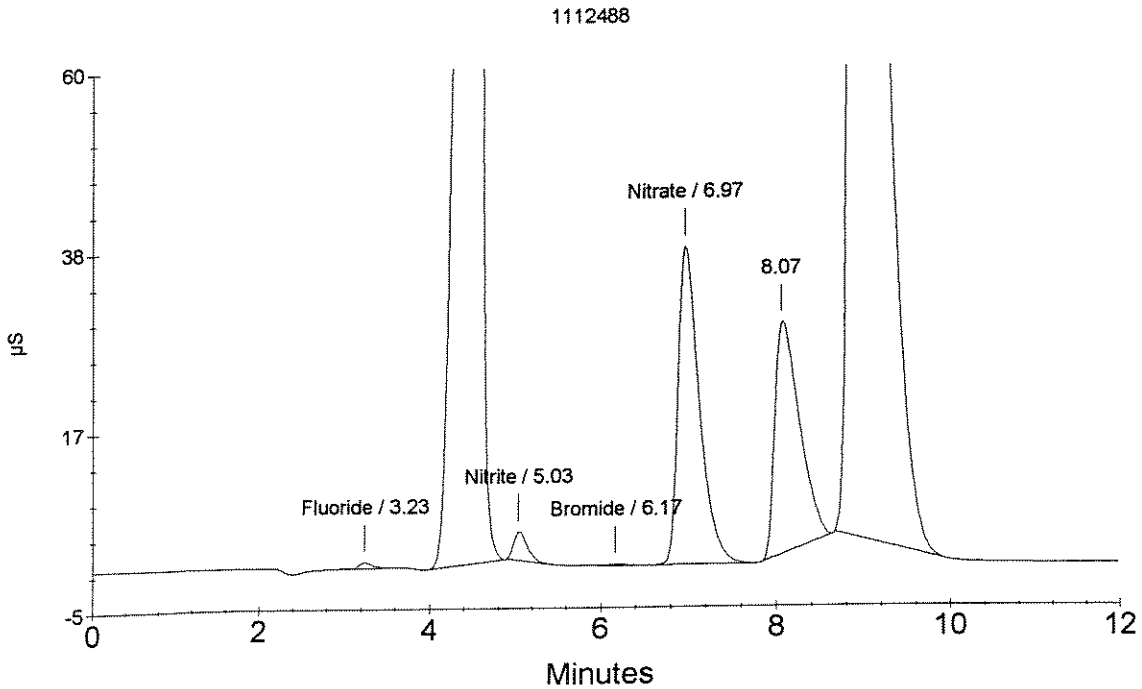
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	1.055	74252
2	4.50	Chloride	1099.332	51924745
3	5.03	Nitrite	4.488	393050
4	6.17	Bromide <i>OK</i>	0.788	19381
5	6.97	Nitrate	57.643	6420460
7	9.00	Sulfate	1877.556	46727846

OK
7/11/08



Ion Chromatography Analytical Report
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 Rochester, NY 14607

Sample Name : 1112489
 Data File Name : ... \710_039.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 05:04:22

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

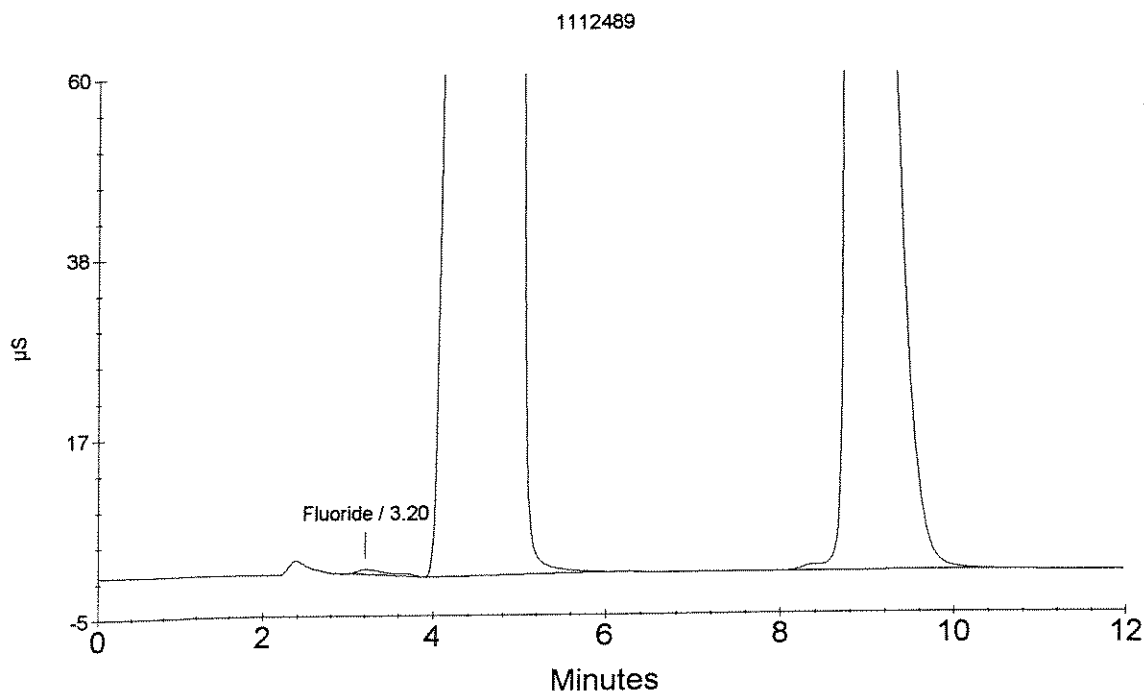
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride Chloride	2.343	157727
2	4.90	Nitrite Bromide Nitrate	3040.225	279344104
3	8.93	Sulfate	2873.159	71495762

OK

CY 7/11/08



Ion Chromatography Analytical Report
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Sample Name : 1112489 DUP
Data File Name : ...\\710_040.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 05:18:41

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

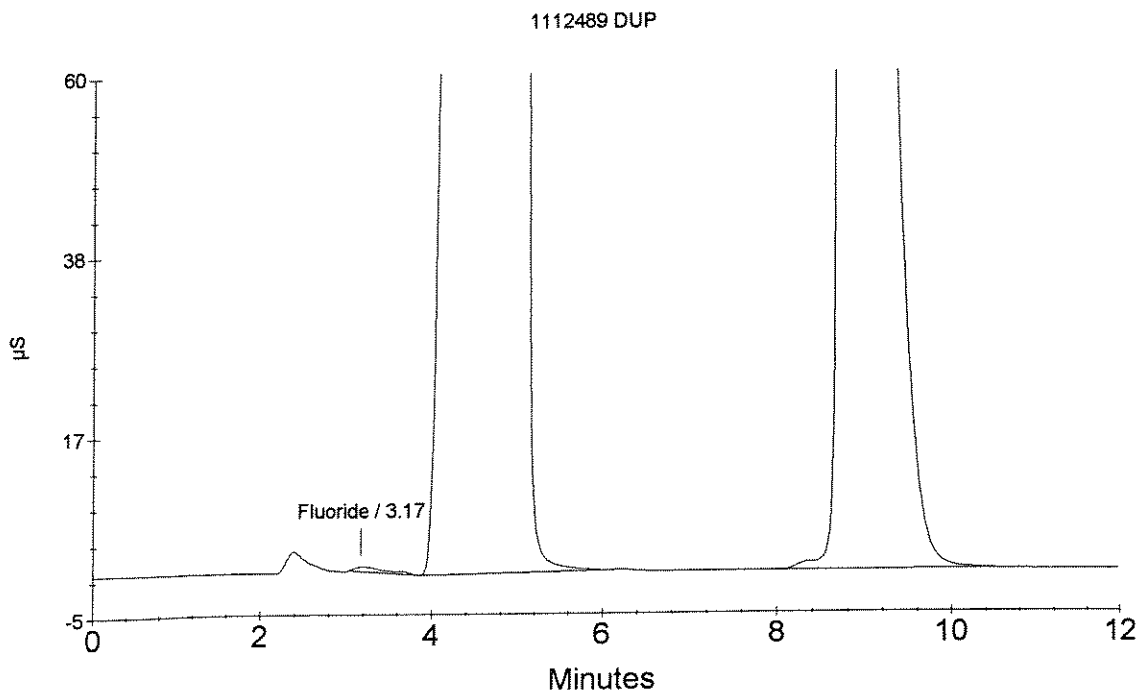
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride Chloride	2.275	153317
2	4.97	Nitrite Bromide	3744.707	344078326
3	8.87	Nitrate Sulfate	3768.058	93758432

OK
7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1112489 SPK
 Data File Name : ... \710_041.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 05:33:00

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

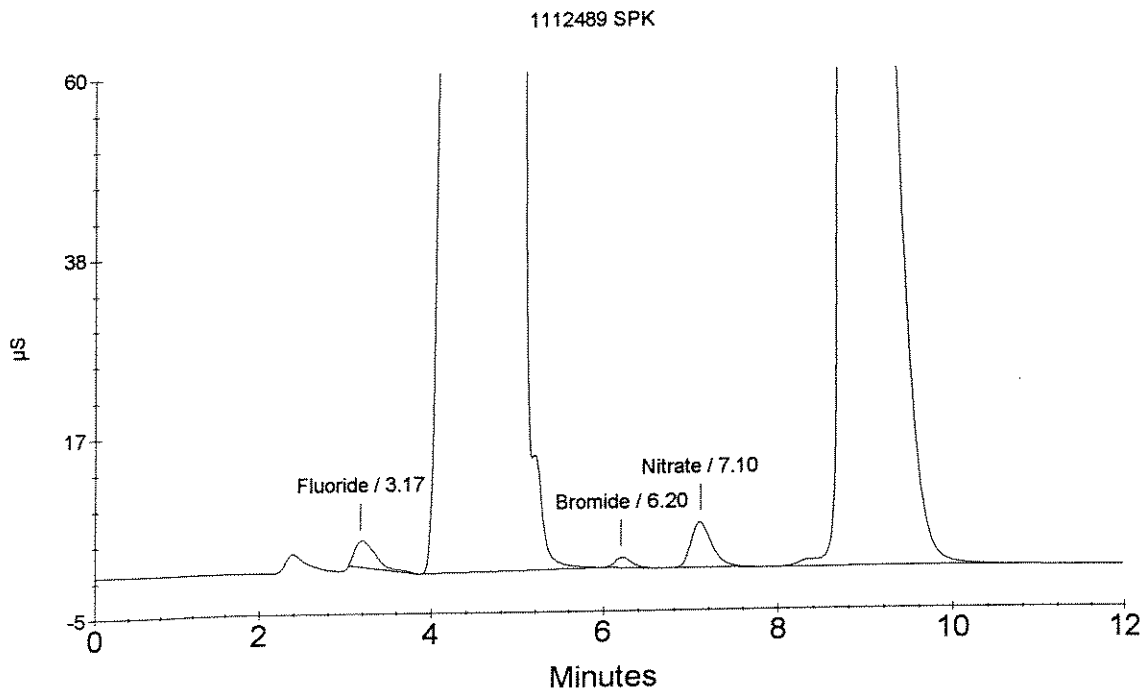
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride Chloride	8.485	555569
2	4.93	Nitrite	3414.925	313774962
3	6.20	Bromide <i>OK</i>	9.594	163582
4	7.10	Nitrate	8.964	921140
5	8.87	Sulfate	3407.793	84796005

CYT
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\710_042.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 05:47:20

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

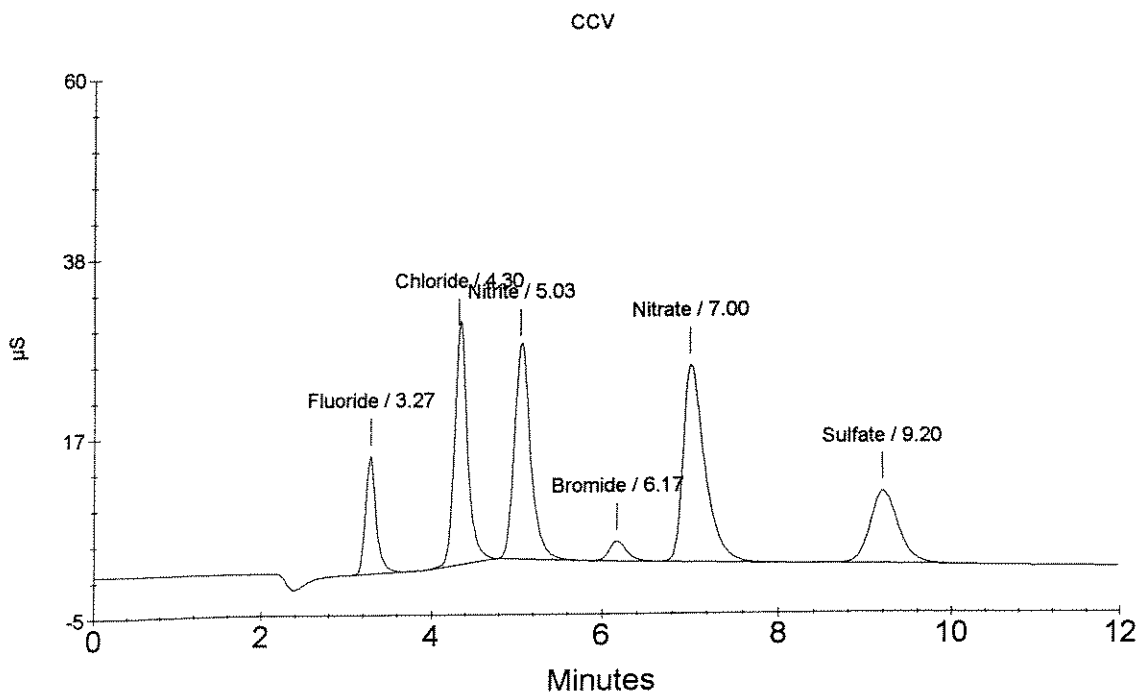
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	1.861	1211648
2	4.30	Chloride	6.670	3137330
3	5.03	Nitrite	3.737	3414264
4	6.17	Bromide	2.040	340480
5	7.00	Nitrate	3.706	4095482
6	9.20	Sulfate	7.879	1979423

OK
CCV
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ... \710_043.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/11/08 06:01:40

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

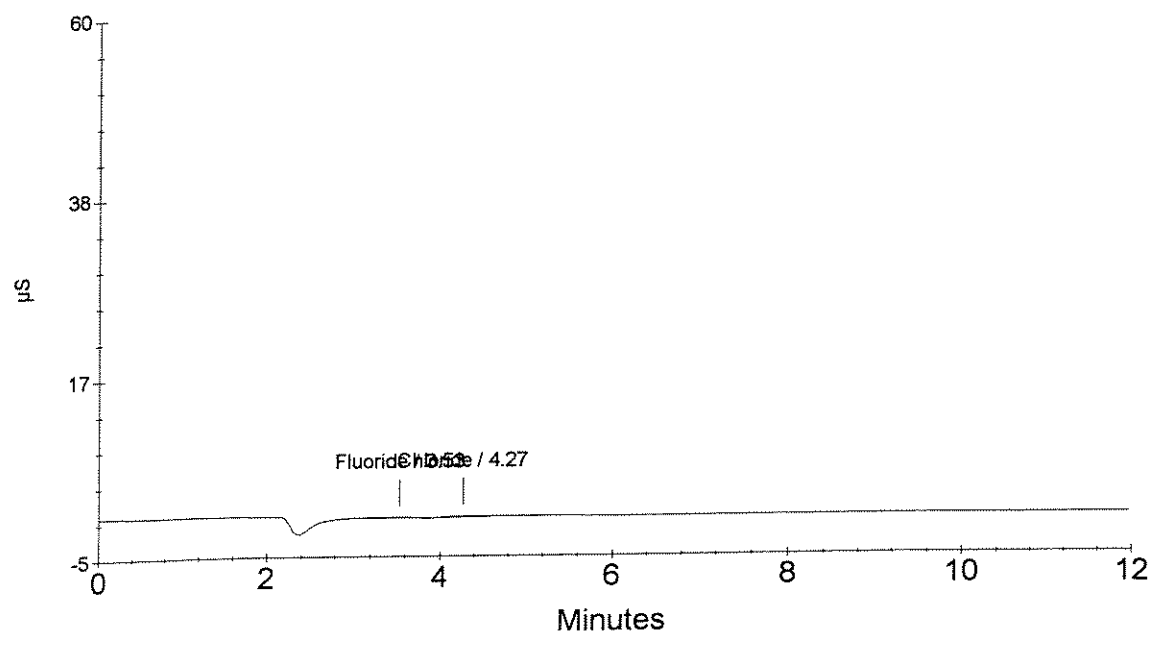
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.53	Fluoride	0.042	32875
2	4.27	Chloride	0.099	33016
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
7/11/08

CCB



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : LCS
 Data File Name : ...710_044.DXD
 Method File Name : ...20080710.met
 Date Time Collected : 7/11/08 06:15:59

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

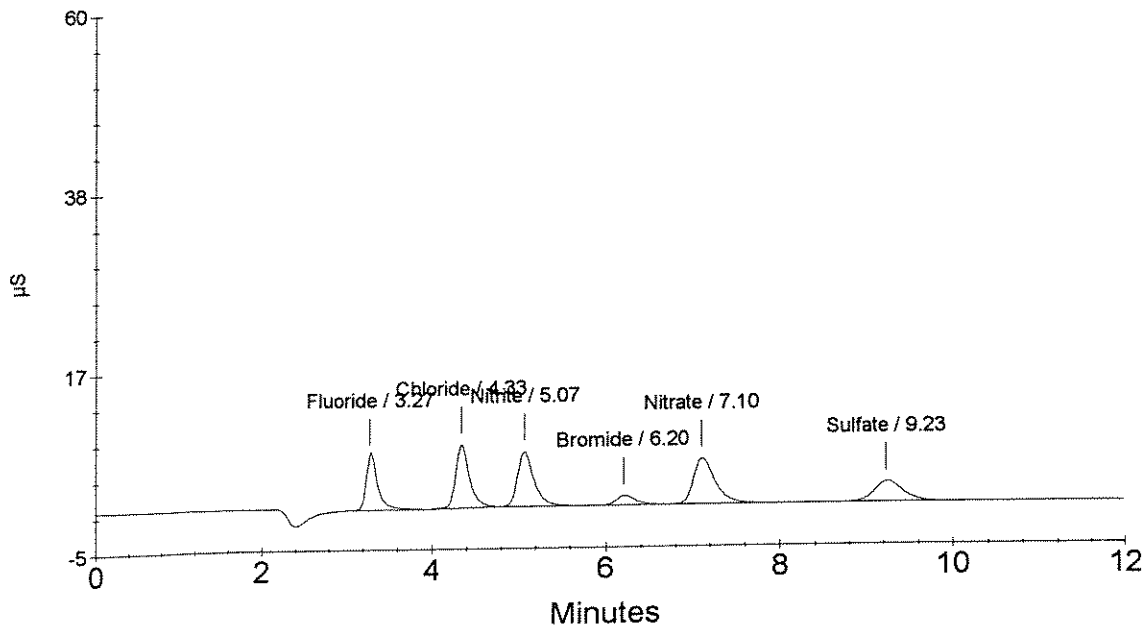
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.973	636112
2	4.33	Chloride	1.797	835473
3	5.07	Nitrite	0.960	862528
4	6.20	Bromide <i>OK</i>	0.976	166318
5	7.10	Nitrate	0.914	941437
6	9.23	Sulfate	2.160	556637

CW
7/11/08

LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112809
Data File Name : ... \710_045.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/11/08 06:30:18

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

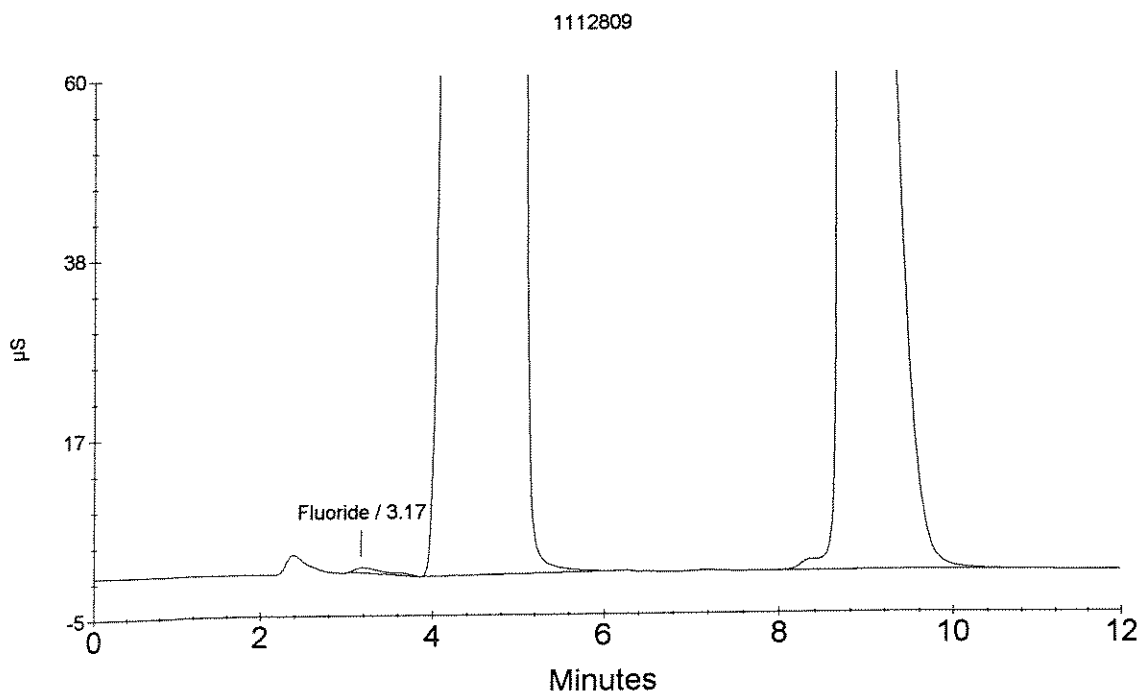
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride Chloride	2.376	159805
2	4.97	Nitrite Bromide Nitrate	3590.033	329865517
3	8.83	Sulfate	3787.365	94238743

DX

*cm
7/11/08*



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112810
Data File Name : ...\\710_046.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 06:44:38

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

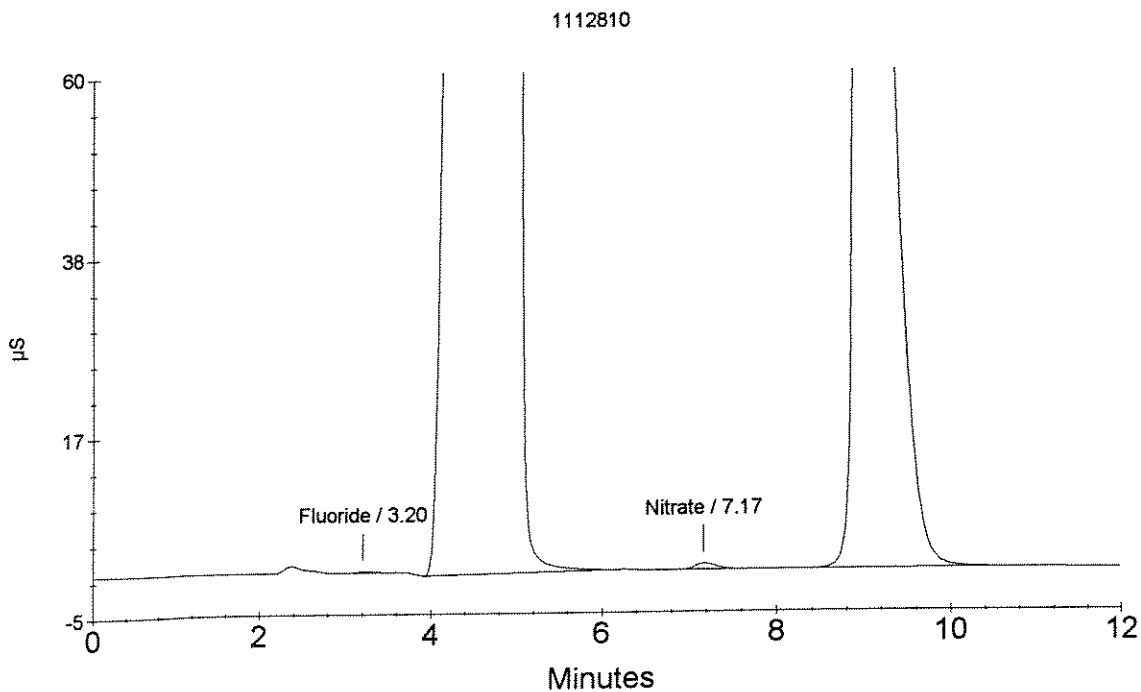
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride Chloride	0.261	22810
2	4.90	Nitrite Bromide	2870.878	263782988
3	7.17	Nitrate	1.859	118529
4	9.03	Sulfate	1869.672	46531696

OK
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112811
Data File Name : ...\\710_047.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 06:58:57

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

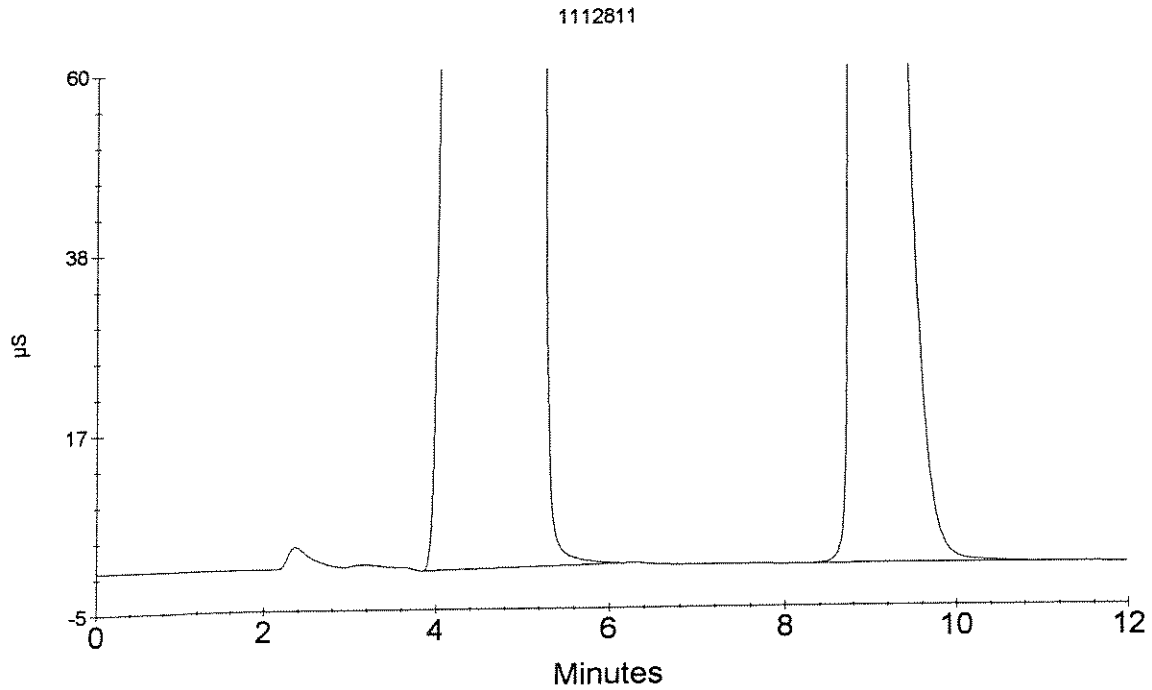
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	5.13	Nitrite Chloride	4802.499	441277863
1	5.13	Nitrite Bromide	4802.499	441277863
2	8.93	Nitrate Sulfate	3683.872	91664125

OK
CY 7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1112812
 Data File Name : ... \710_048.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 07:13:16


Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

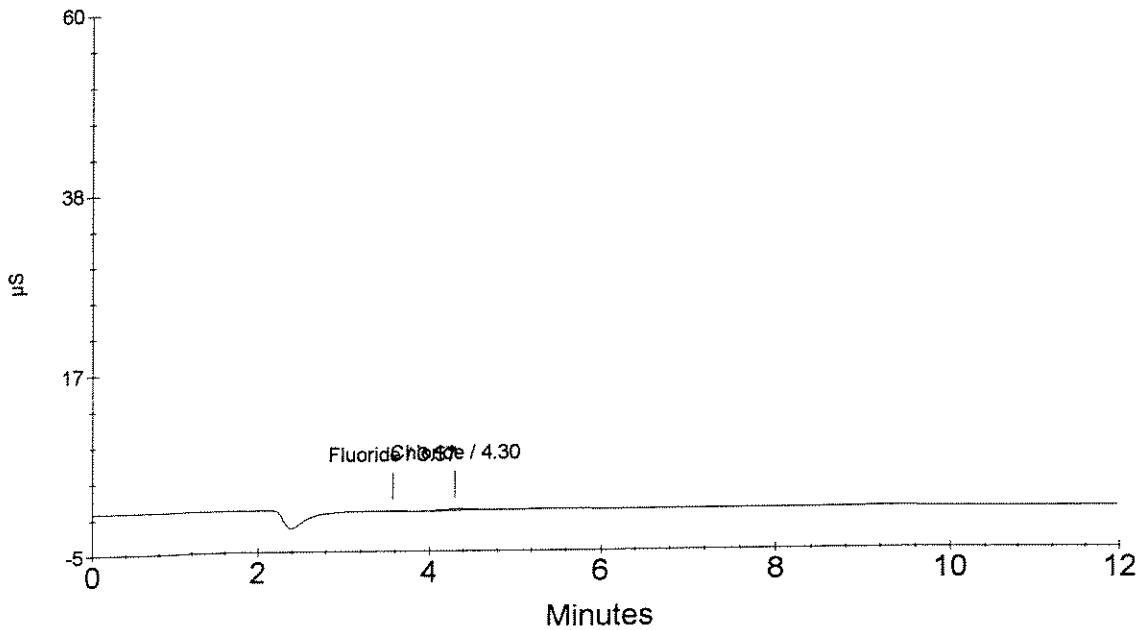
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.428	33632
2	4.30	Chloride	1.162	41140
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK

 7/11/08

1112812



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1113426
 Data File Name : ... \710_049.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 07:27:36

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

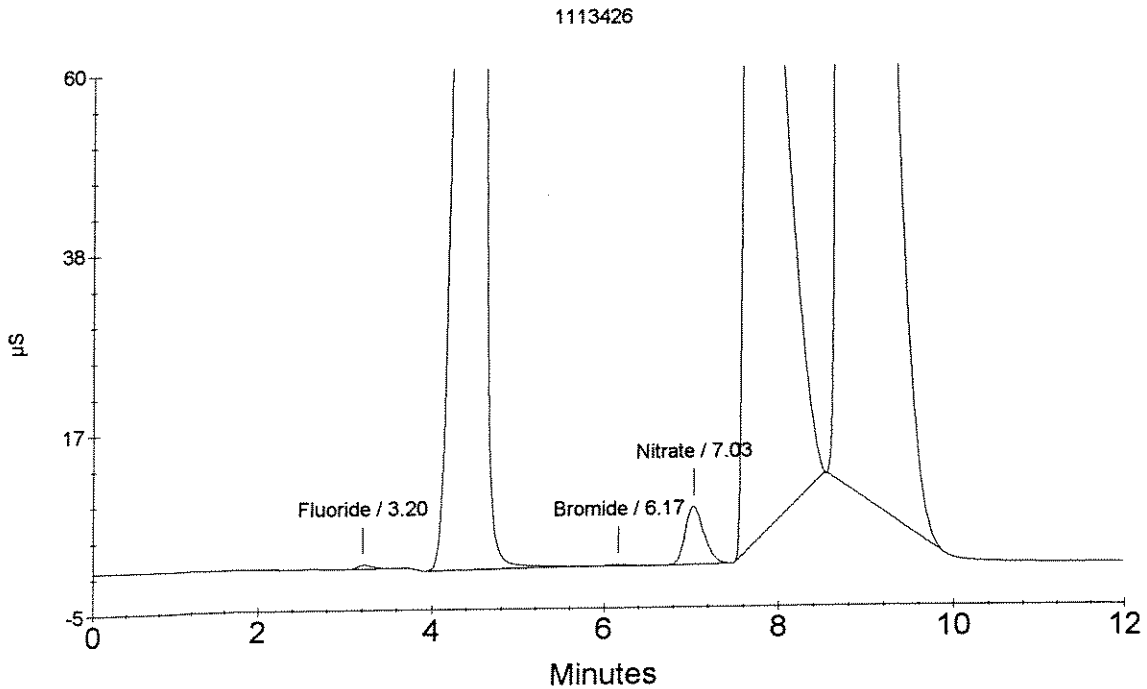
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.718	52410
2	4.50	Chloride Nitrite	1246.620	58883470
3	6.17	Bromide <i>OK</i>	1.147	25261
4	7.03	Nitrate	10.049	1043716
6	8.83	Sulfate	3777.230	93986620

CW
7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1113427
 Data File Name : ... \710_050.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 07:41:56

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

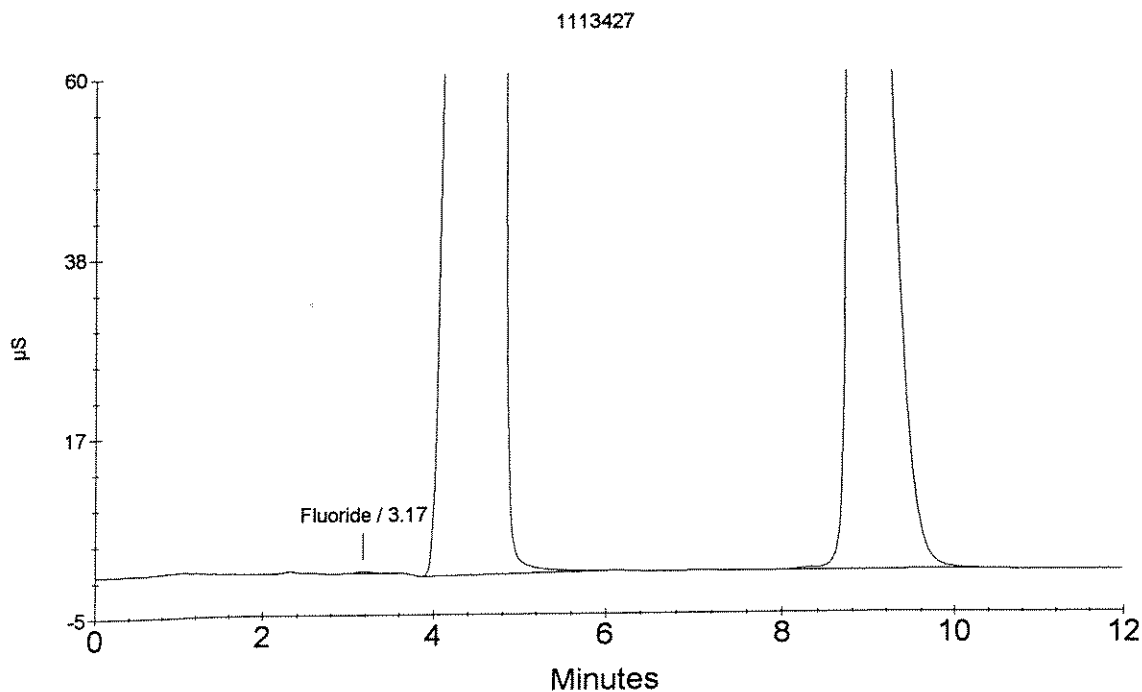
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.327	27132
2	4.70	Chloride Nitrite Bromide Nitrate	3707.303	175139771
3	8.90	Sulfate	2143.644	53347393

OK
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113428
Data File Name : ...\\710_051.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 07:56:16

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

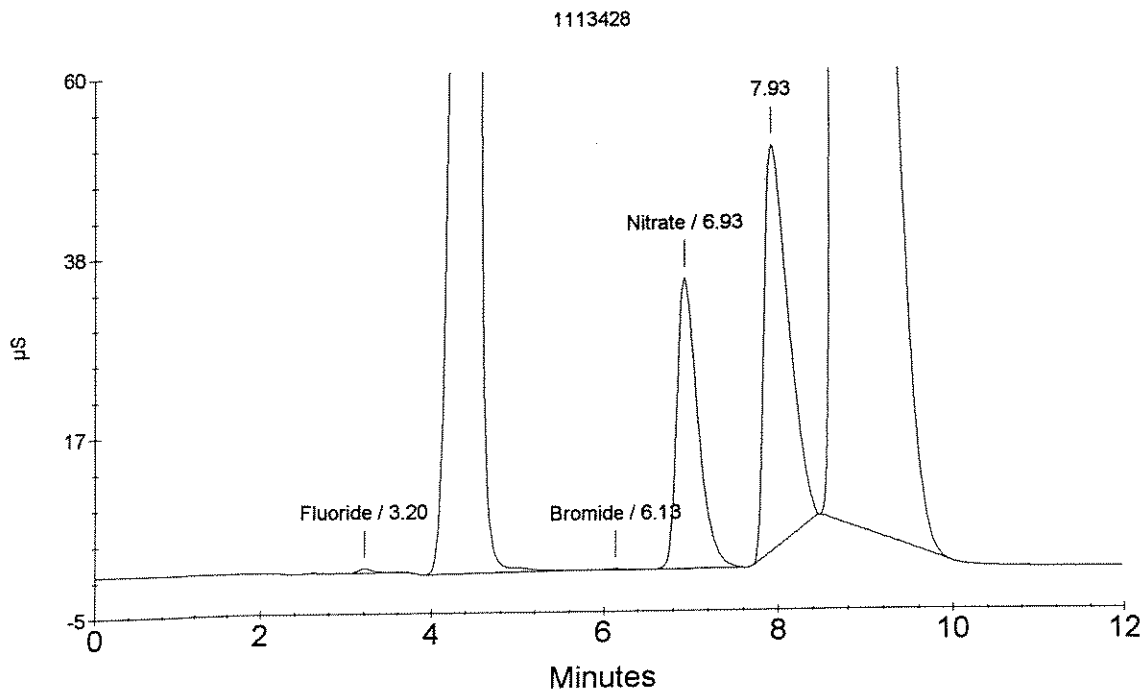
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.761	55197
2	4.43	Chloride	1118.620	52836030
3	6.13	Nitrite Bromide <i>OK</i>	0.728	18406
4	6.93	Nitrate	51.921	5774075
6	8.80	Sulfate	4429.258	110207332

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7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1113429
 Data File Name : ... \710_052.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 08:10:35

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

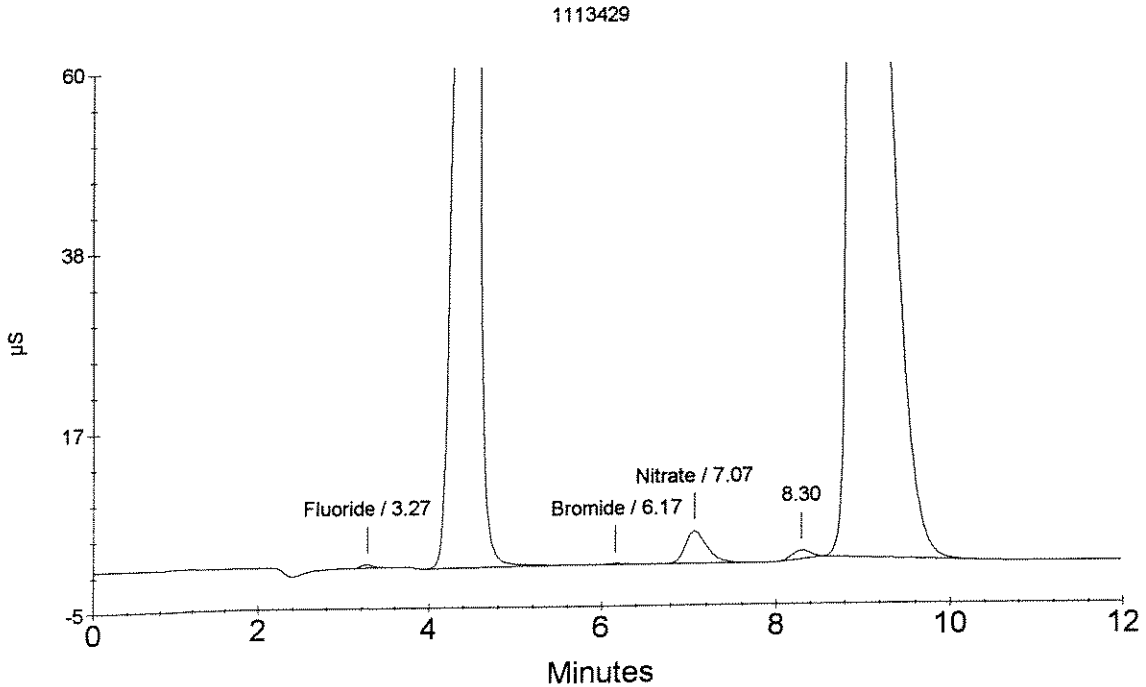
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.540	40909
2	4.47	Chloride Nitrite	845.349	39925196
3	6.17	Bromide <i>OK</i>	0.800	19583
4	7.07	Nitrate	6.666	661536
6	9.00	Sulfate	1993.870	49621424

OK
 7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113430
Data File Name : ... \710_053.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/11/08 08:24:54

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

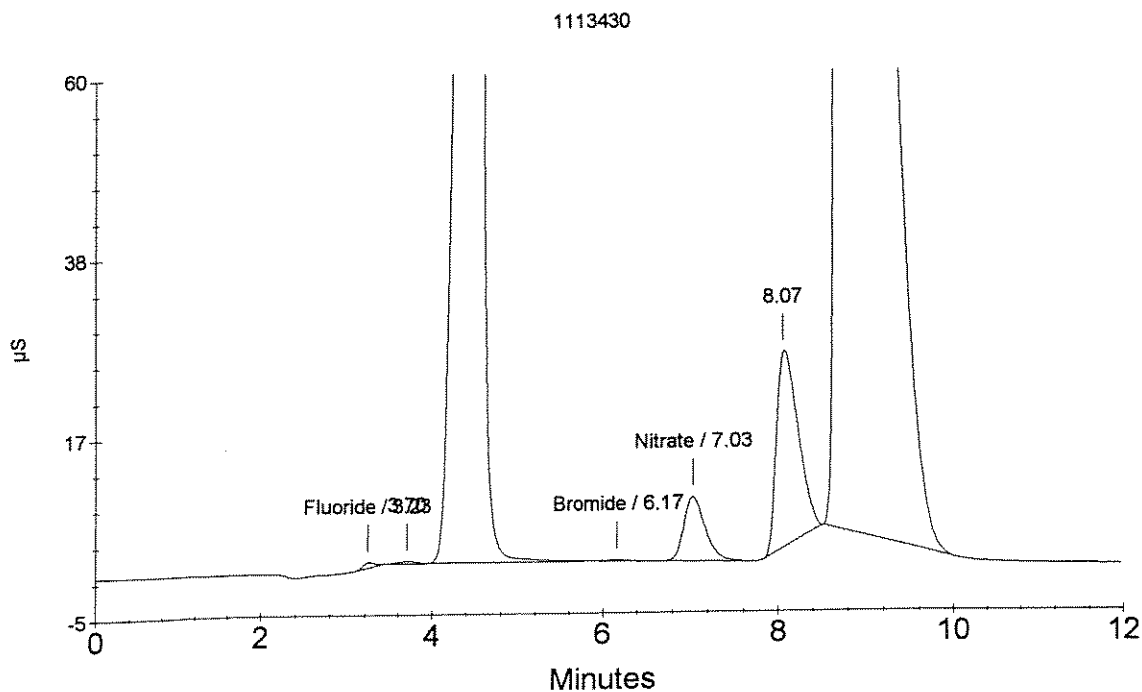
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	0.807	58211
3	4.47	Chloride	1069.937	50535999
4	6.17	Nitrite Bromide	1.031	23367
5	7.03	Nitrate	12.140	1279969
7	8.83	Sulfate	4064.678	101137546

OK
CWT
7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1113430 DUP
 Data File Name : ... \710_054.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 08:39:14

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

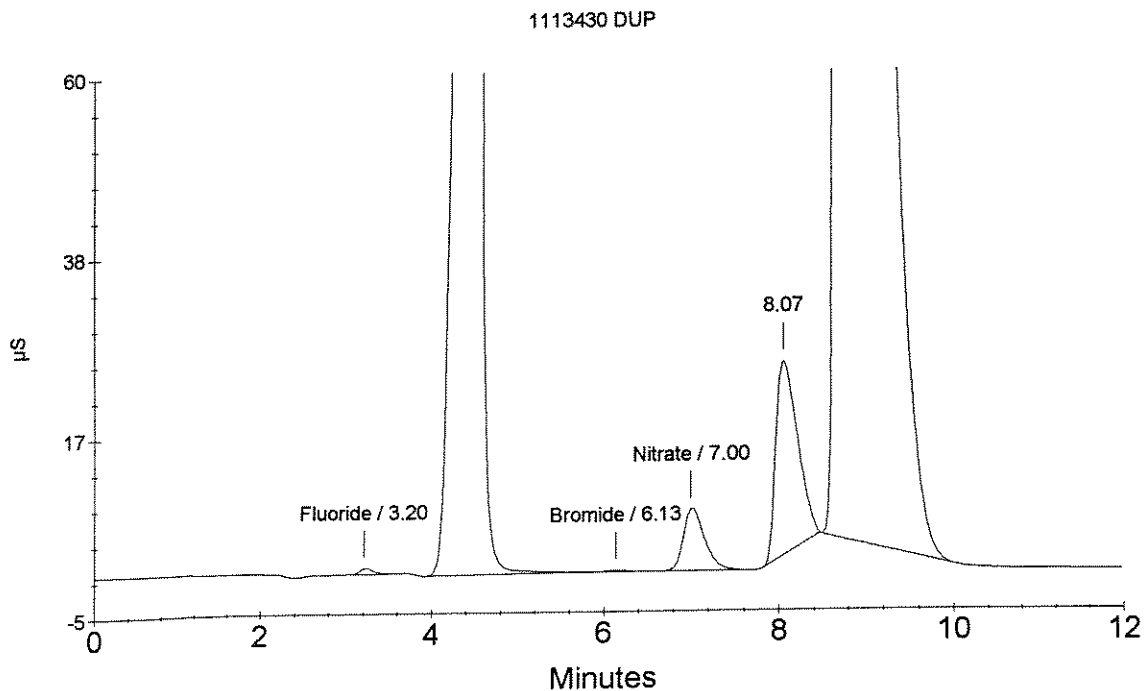
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	1.149	80362
2	4.47	Chloride Nitrite	1079.753	50999734
3	6.13	Bromide <i>OK</i>	0.972	22400
4	7.00	Nitrate	11.870	1249444
6	8.80	Sulfate	4129.865	102759217

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 7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113430 SPK
Data File Name : ...\\710_055.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 08:53:33

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

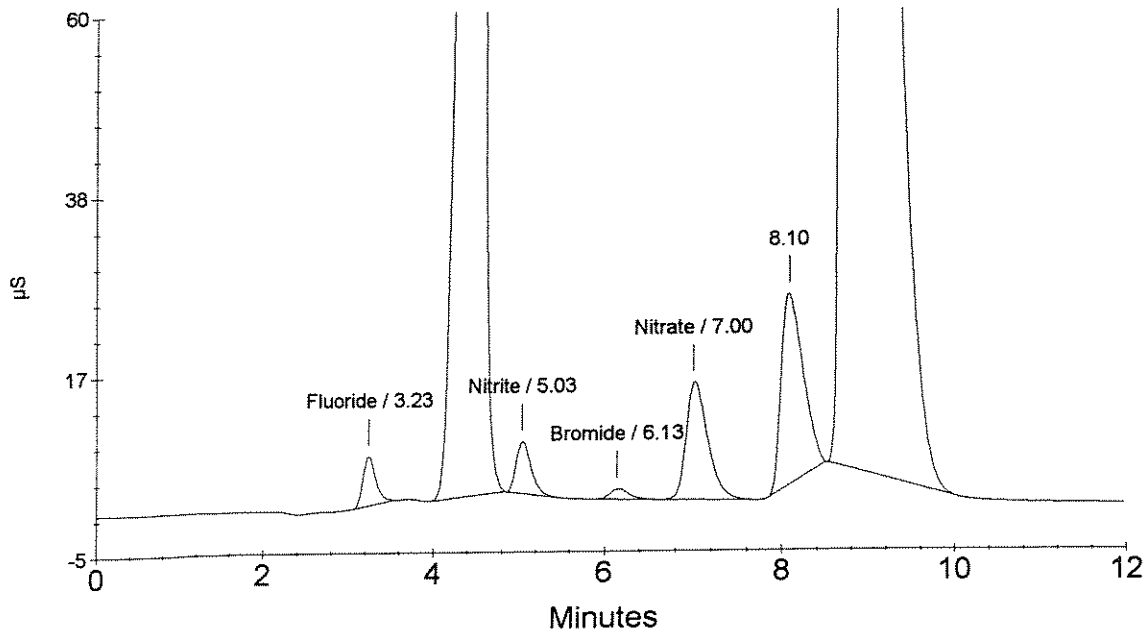
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	9.507	621713
2	4.47	Chloride	1078.996	50963970
3	5.03	Nitrite	8.510	762553
4	6.13	Bromide	11.152	189107
5	7.00	Nitrate	21.840	2375821
7	8.83	Sulfate	4104.697	102133125

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7/11/08

1113430 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\710_056.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 09:07:51

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

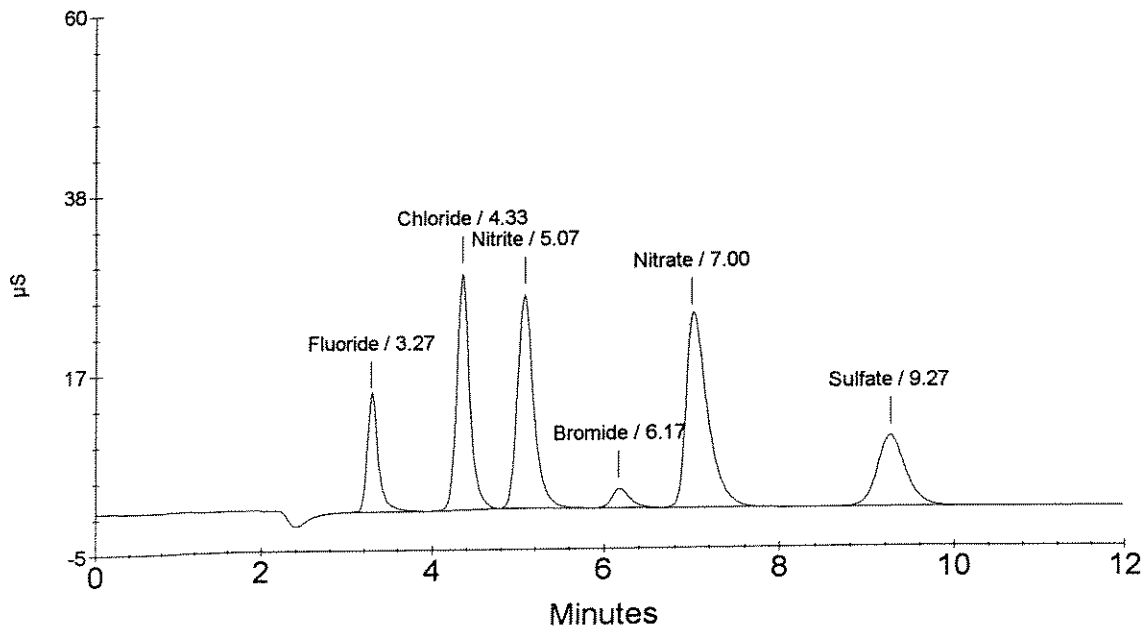
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	1.983	1290532
2	4.33	Chloride	6.304	2964363
3	5.07	Nitrite	3.680	3361993
4	6.17	Bromide <i>OK</i>	1.980	330705
5	7.00	Nitrate	3.619	3997157
6	9.27	Sulfate	7.679	1929662

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7/11/08

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\710_057.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 09:22:11

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

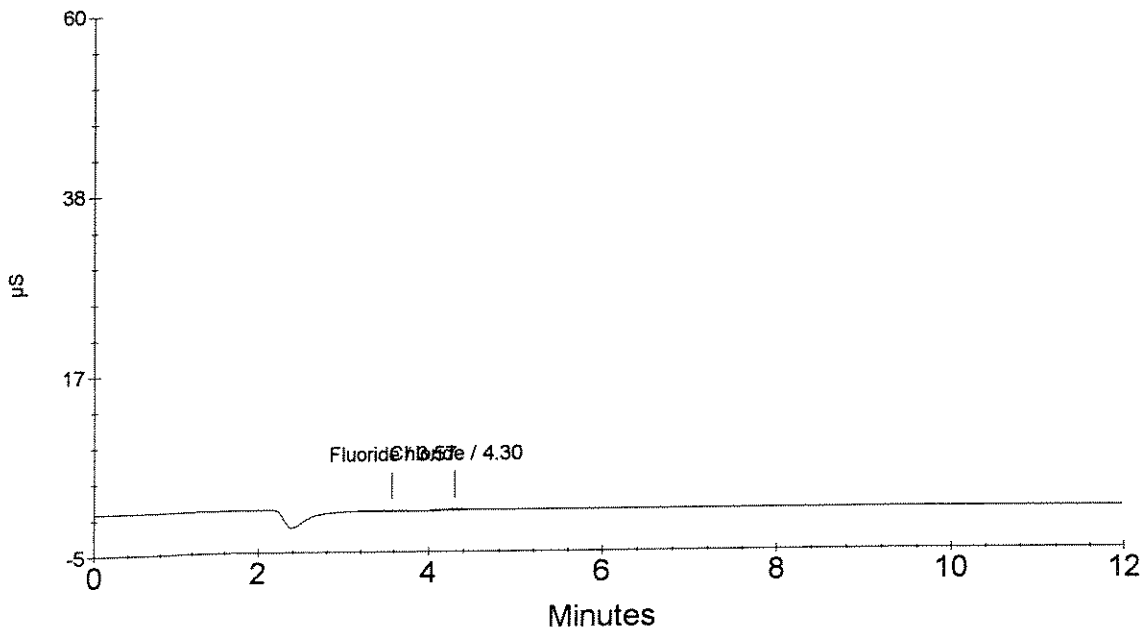
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.044	34269
2	4.30	Chloride	0.096	31795
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
CM
7/11/08

CCB



Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram
Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: 07/10/08 **Loop size:** 100 uL

Analyst: _____ **Analysis Date:** _____

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	07/10/08	WC90010A		Working Calibration Stds	07/10/08	WC90010H
LCS/MS Intermediate	07/10/08	WC90010A		Working LCS/MS Standard	07/10/08	WC90050A
ICV Intermediate	06/23/08	WC90100A		Working ICV Standard	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A		Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

CURVE INVALID FOR SULFATE ANALYSIS

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC90010A	50	2.0	100	1.0	CMM	7/16/08	A	7/17/08	WC90050A
Cl		100			2.0			B		
NO2		50			1.0			C		
Br		50			1.0			D		
NO3		50			1.0			E		
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: 07/10/08

Loop size: 100 uL

Analyst: C. Woods

Analysis Date: 7-10-08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	07/10/08	WC90010A		Working Calibration Stds	07/10/08	WC90010H
LCS / MS Intermediate	07/10/08	WC90010A		Working LCS/MS Standard	07/10/08	WC90050A
ICV Intermediate	06/23/08	WC90100A		Working ICV Standard	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A		Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

CURVE INVALID FOR SULFATE ANALYSIS

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC90010A	50	2.0	100	1.0	CMW	7/16/08	A	7/17/08	WC90050A
Cl		100			2.0			B		
NO2		50			1.0			C		
Br		50			1.0			D		
NO3		50			1.0			E		
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

62043

CALIBRATION INTERMEDIATE STOCK PREP
(used for Calibration and LCS / MS)

Analyte	1000ppm Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date	Final Calibration Intermediate Stock ID
F	WC8509F	1000	10	200	50	CMW	7/10/08	A	12/10/08	WC90010A
Cl	WC85106C	1000	20		100			B		
NO2	WC72001J	1000	10		50			C		
Br	WC85160D	1000	10		50			D		
NO3	WC72002N	1000	10		50			E		
OPO4	—	1000	10		50			F		
SO4	WC72001Y	1000	20		100			G		

WORKING CALIBRATION STANDARDS PREP
(Stocks delivered using Volumetric glassware and brought to volume with DI. Expire after 7 days.)

Std #	Calibration Intermediate Stock ID	mLs Intermediate Stock	Final Vol. mLs	Final Std Conc.							Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID	
				F	Cl	NO2	Br	NO3	OPO4	SO4						
9	WC90010A	10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	5.0	10.0	CMW	7/10/08	H	7/17/08	WC90010H
8		8.0		4.0	8.0	4.0	4.0	4.0	4.0	4.0	8.0			I		
7		2.0	5.0 ^{re}	2.5	5.0	2.5	2.5	2.5	2.5	2.5	5.0			J		
6		2.0	5.0 ^{re}	1.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0			K		
5		1.0	5.0 ^{re}	0.5	1.0	0.50	0.50	0.50	0.50	0.50	1.0			L		
4		0.5	5.0 ^{re}	0.25	0.50	0.25	0.25	0.25	0.25	0.25	0.50			M		
3		0.2	5.0 ^{re}	0.10	0.20	0.10	0.10	0.10	0.10	0.10	0.20			N		
2		0.1	5.0 ^{re}	0.05	0.10	0.05	0.05	0.05	0.05	0.05	0.10			O		
1		0.0	5.0 ^{re}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			P		

ICV / CCV INTERMEDIATE STOCK PREP

Analyte	ICV / CCV Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date	Final ICV / CCV Intermediate Stock ID
F	WC85037C	1000	4.0	1000	4.0	TC	6/23/08	A	9/25/08	WC90100A
Cl	WC85106D	650	20.0		13.0			B		
NO2	WC72007E	180	40.0		7.2			C		
Br	WC85037D	1000	4.0		4.0			D		
NO3	WC72607N	180	40.0		7.2			E		
OPO4	---	180	40.0		7.2			F		
SO4	WC72006Y	3200	4.0		12.8			G		

WORKING ICV / CCV PREP
(A 1:2 dilution of the Reference Intermediate Stock is done daily)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Final Working ICV / CCV ID
F	WC90100A	4.0	5.0	20.0	1.0	TC	DAILY	H	WC90100H
Cl		13.0			3.25				
NO2		7.2			3.6				
Br		4.0			2.0				
NO3		7.2			3.6				
OPO4		7.2			3.6				
SO4		12.8			6.4				

92054

Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 1
 Sample Type : Calibration Update
 Data File Name : ...\\710_001.DXD
 Method File Name : ...\\20080710.met

Date Time Collected : 7/10/08 16:00:52
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

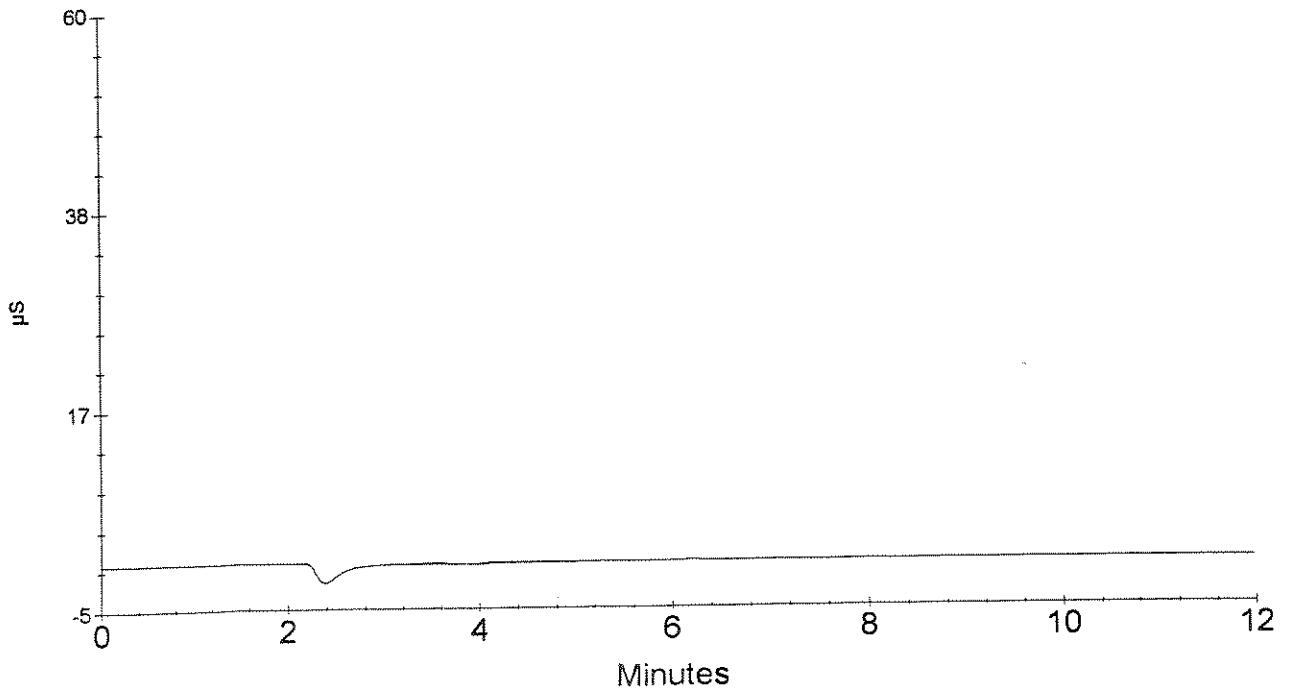
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 1

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.57	Fluoride	0.00	36788	584613.00
2	4.47	Chloride	0.00	70748	24587.00
		Nitrite			
		Bromide			
		Nitrate			
		Sulfate			

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 7/11/08
 STANDARD 1



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 2
 Sample Type : Calibration Update
 Data File Name : ... \710_002.DXD
 Method File Name : ... \20080710.met


Date Time Collected : 7/10/08 16:15:11
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

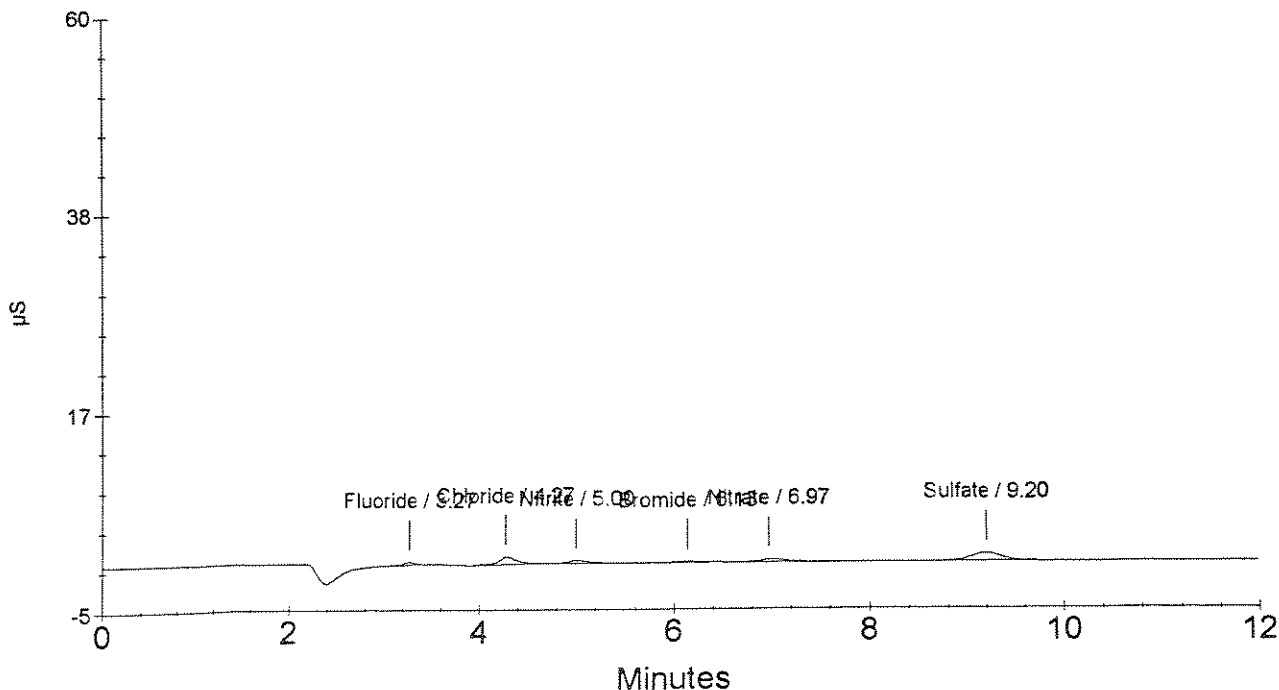
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 2

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.27	Fluoride	0.05	23624	20511.00
2	4.27	Chloride	0.10	105687	60631.50
3	5.00	Nitrite	0.05	37742	33073.00
4	6.13	Bromide	0.05	15182	10012.00
5	6.97	Nitrate	0.05	41482	35011.00
6	9.20	Sulfate	0.10	180212	24864.50


 STANDARD 2



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 3
 Sample Type : Calibration Update
 Data File Name : ...\\710_003.DXD
 Method File Name : ...\\20080710.met

Date Time Collected : 7/10/08 16:29:30
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

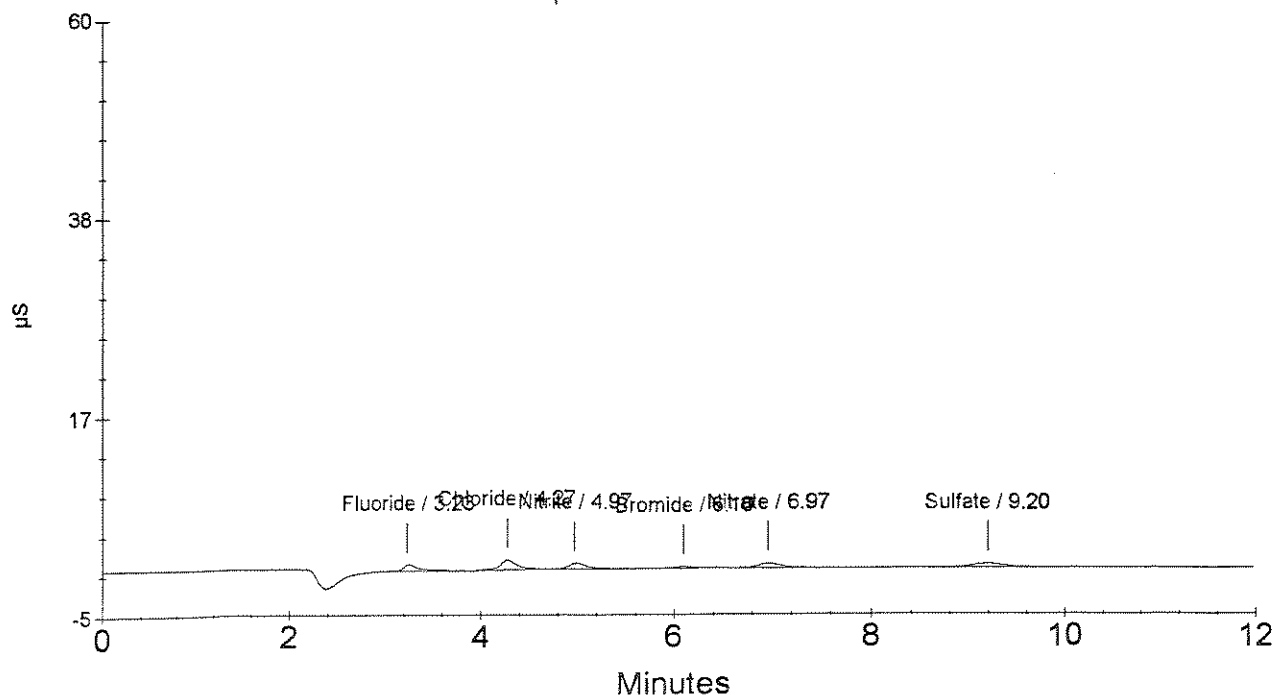
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 3

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.23	Fluoride	0.10	88256	43487.00
2	4.27	Chloride	0.20	130731	89946.50
3	4.97	Nitrite	0.10	73460	69578.00
4	6.10	Bromide	0.10	23720	18904.50
5	6.97	Nitrate	0.10	71740	71578.50
6	9.20	Sulfate	0.20	80616	44110.00

CW
 7/11/08
 STANDARD 3



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 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 4
 Sample Type : Calibration Update
 Data File Name : ... \710_004.DXD
 Method File Name : ... \20080710.met

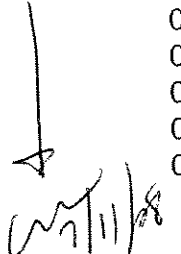
Date Time Collected : 7/10/08 16:43:50
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

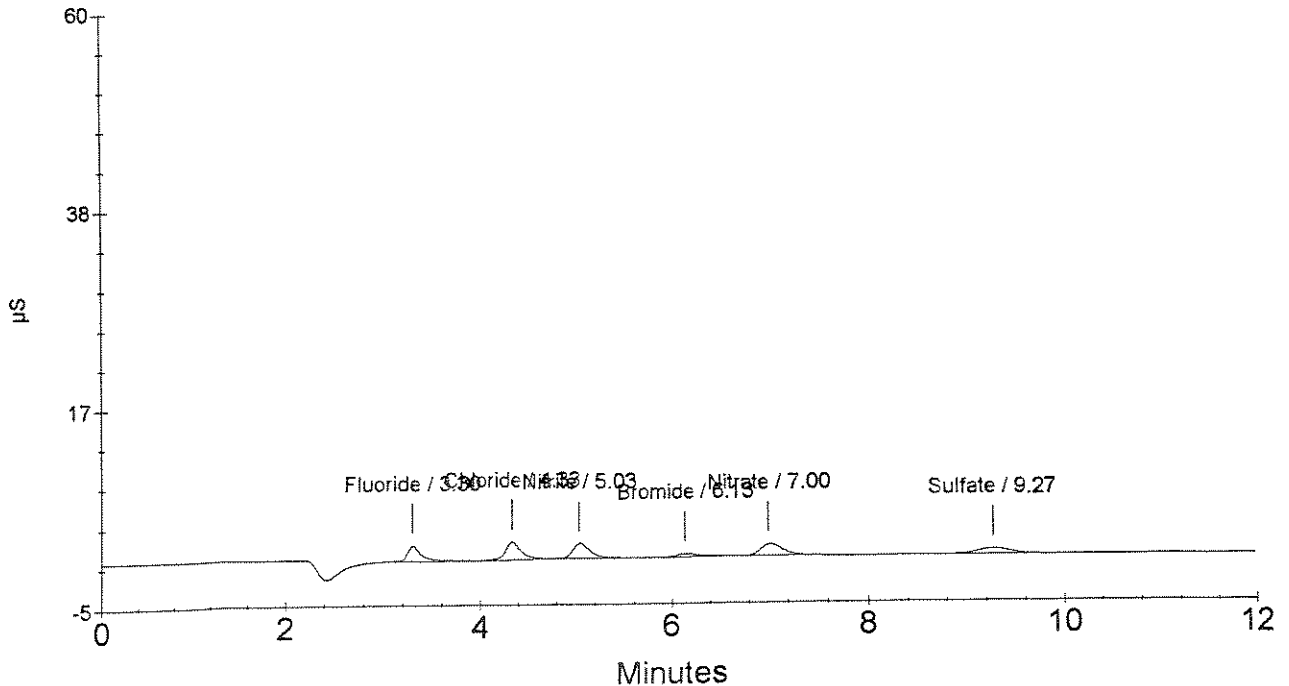
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 4

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.30	Fluoride	0.25	180708	105400.50
2	4.33	Chloride	0.50	223123	211273.50
3	5.03	Nitrite	0.25	194895	180651.00
4	6.13	Bromide	0.25	50308	43438.00
5	7.00	Nitrate	0.25	200167	194199.00
6	9.27	Sulfate	0.50	120542	126543.00

OK

 STANDARD 4



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Sample Name : STANDARD 5
 Sample Type : Calibration Update
 Data File Name : ...\\710_005.DXD
 Method File Name : ...\\20080710.met

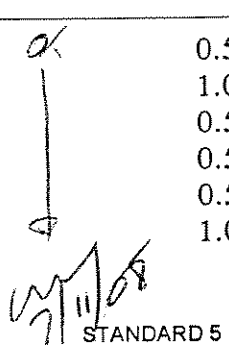
Date Time Collected : 7/10/08 16:58:09
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

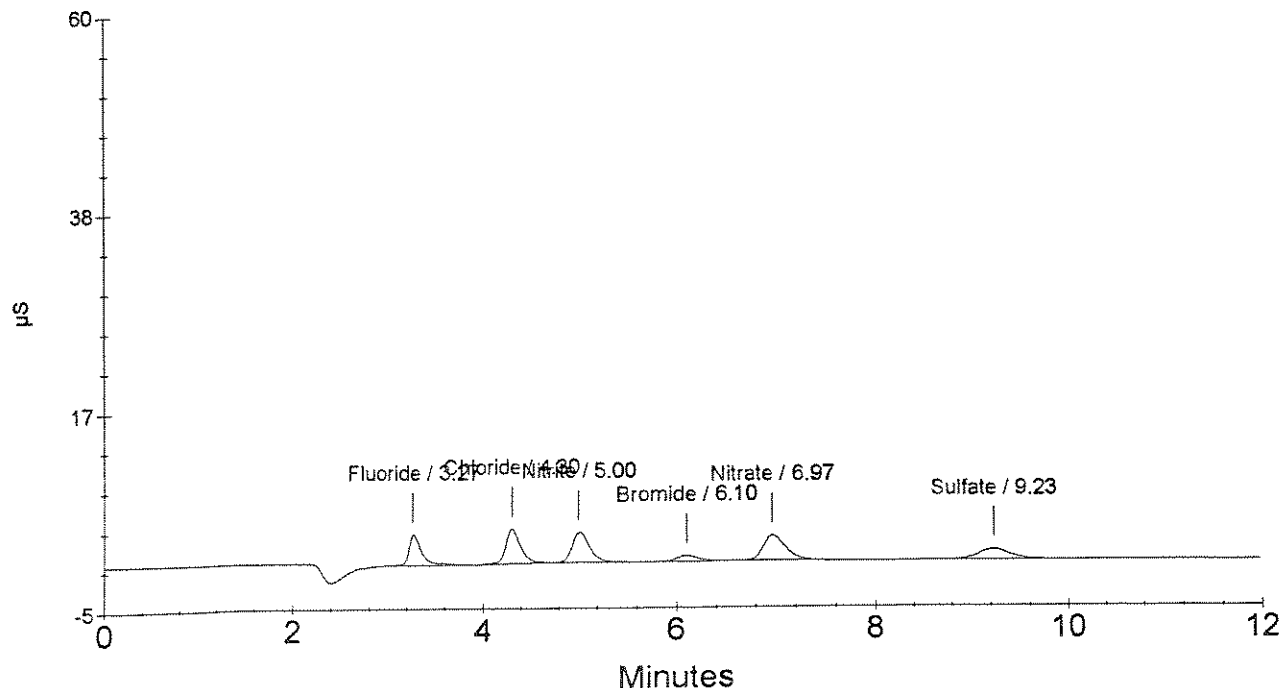
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 5

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.27	Fluoride	0.50	320033	280927.00
2	4.30	Chloride	1.00	412873	372164.00
3	5.00	Nitrite	0.50	404176	368469.00
4	6.10	Bromide	0.50	91343	81453.00
5	6.97	Nitrate	0.50	429630	397775.50
6	9.23	Sulfate	1.00	238036	239635.00


 STANDARD 5



Ion Chromatography Calibration Report
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Sample Name : STANDARD 6
 Sample Type : Calibration Update
 Data File Name : ...\\710_006.DXD
 Method File Name : ...\\20080710.met

Date Time Collected : 7/10/08 17:12:28
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

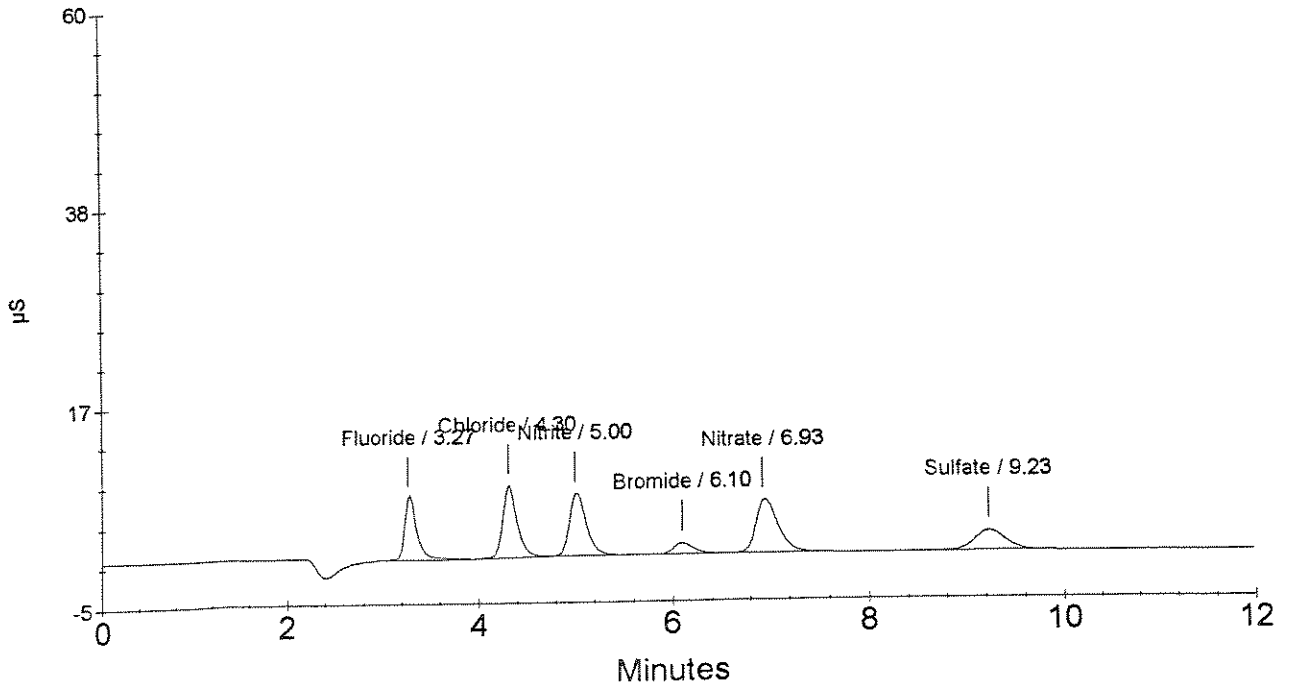
Calibration Type : EXTERNAL
 Calibration Level : 6

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.27	Fluoride	1.00	620779	552422.00
2	4.30	Chloride	2.00	808630	726483.50
3	5.00	Nitrite	1.00	827577	765373.00
4	6.10	Bromide	1.00	169980	155388.00
5	6.93	Nitrate	1.00	910119	839066.00
6	9.23	Sulfate	2.00	459599	482250.50

OK


 STANDARD 6



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 7
 Sample Type : Calibration Update
 Data File Name : ... \710_007.DXD
 Method File Name : ... \20080710.met

Date Time Collected : 7/10/08 17:26:48
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

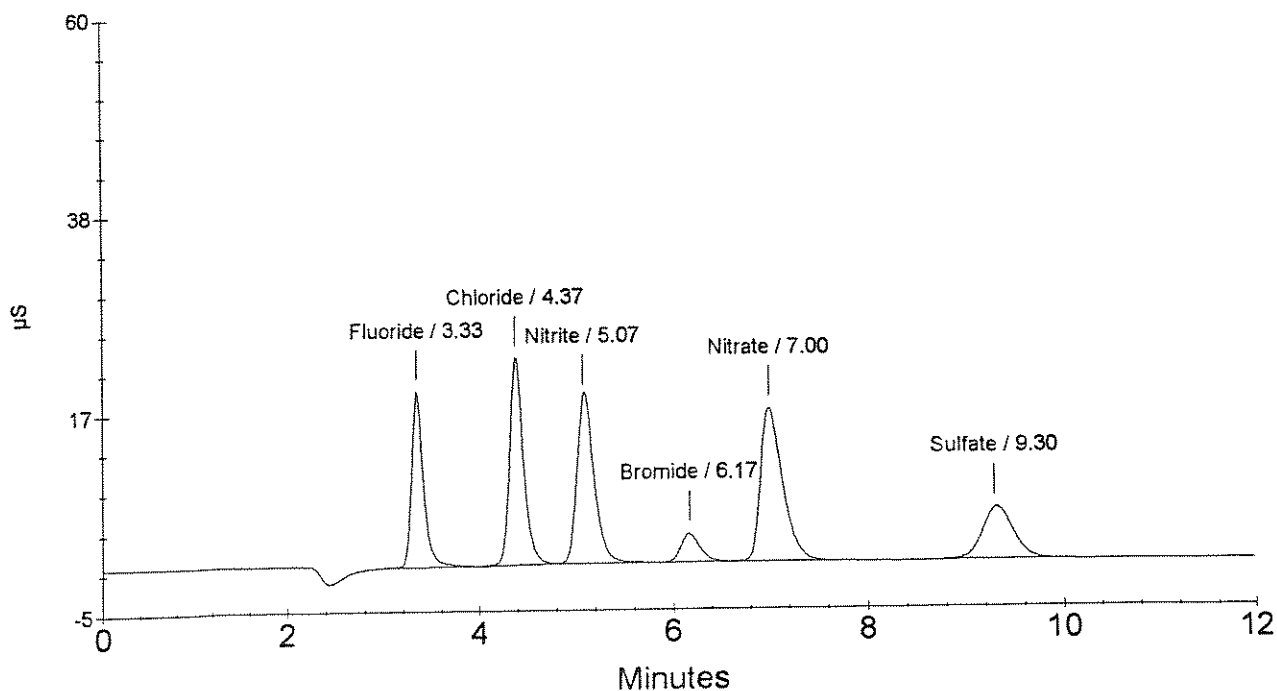
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 7

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.33	Fluoride	2.50	1630175	1467948.00
2	4.37	Chloride	5.00	2230900	1981111.50
3	5.07	Nitrite	2.50	2251962	2048245.00
4	6.17	Bromide	2.50	416821	381974.00
5	7.00	Nitrate	2.50	2600271	2301647.50
6	9.30	Sulfate	5.00	1223286	1268653.50

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 STANDARD 7



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 8
 Sample Type : Calibration Update
 Data File Name : ...\\710_008.DXD
 Method File Name : ...\\20080710.met

Date Time Collected : 7/10/08 17:41:07
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

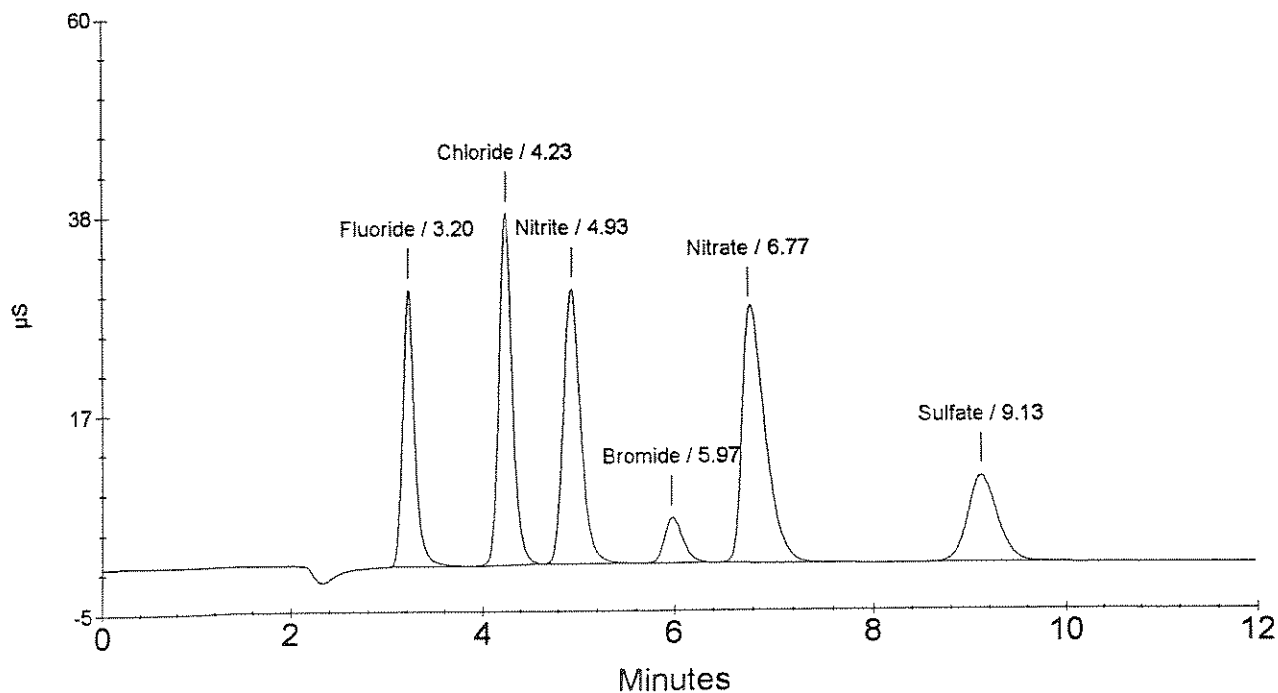
Calibration Type : EXTERNAL
 Calibration Level : 8

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.20	Fluoride	4.00	2568132	2334759.00
2	4.23	Chloride	8.00	3722293	3294251.00
3	4.93	Nitrite	4.00	3654183	3326780.50
4	5.97	Bromide	4.00	659027	605052.00
5	6.77	Nitrate	4.00	4398887	3859035.50
6	9.13	Sulfate	8.00	2002125	2057282.50

OK

 STANDARD 8



Ion Chromatography Calibration Report
 Columbia Analytical Services
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Sample Name : STANDARD 9
 Sample Type : Calibration Update
 Data File Name : ...\\710_009.DXD
 Method File Name : ...\\20080710.met

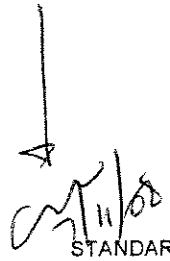
Date Time Collected : 7/10/08 17:55:27
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

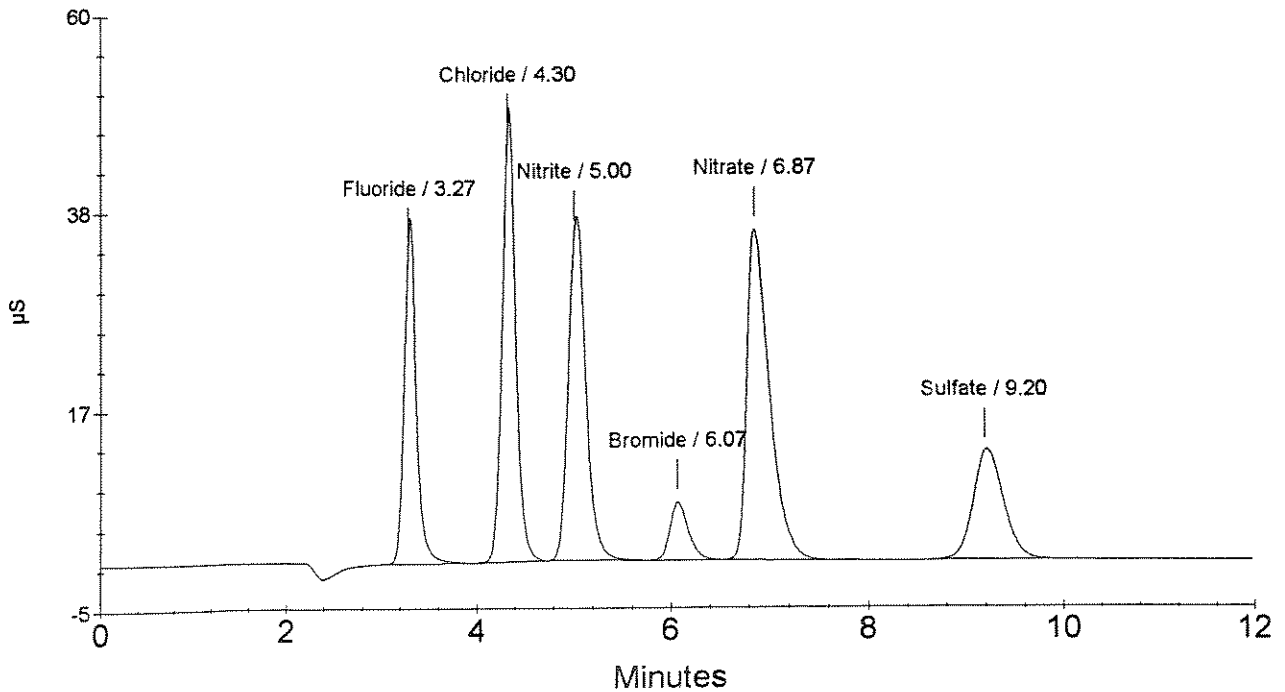
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 9

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.27	Fluoride	5.00	3270646	2990431.00
2	4.30	Chloride	10.00	4819170	4333962.00
3	5.00	Nitrite	5.00	4604552	4309791.00
4	6.07	Bromide	5.00	826270	780891.00
5	6.87	Nitrate	5.00	5662354	5122564.00
6	9.20	Sulfate	10.00	2536306	2696907.00

OK

 STANDARD 9



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICV
Data File Name : ...\\710_010.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/10/08 18:33:56

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

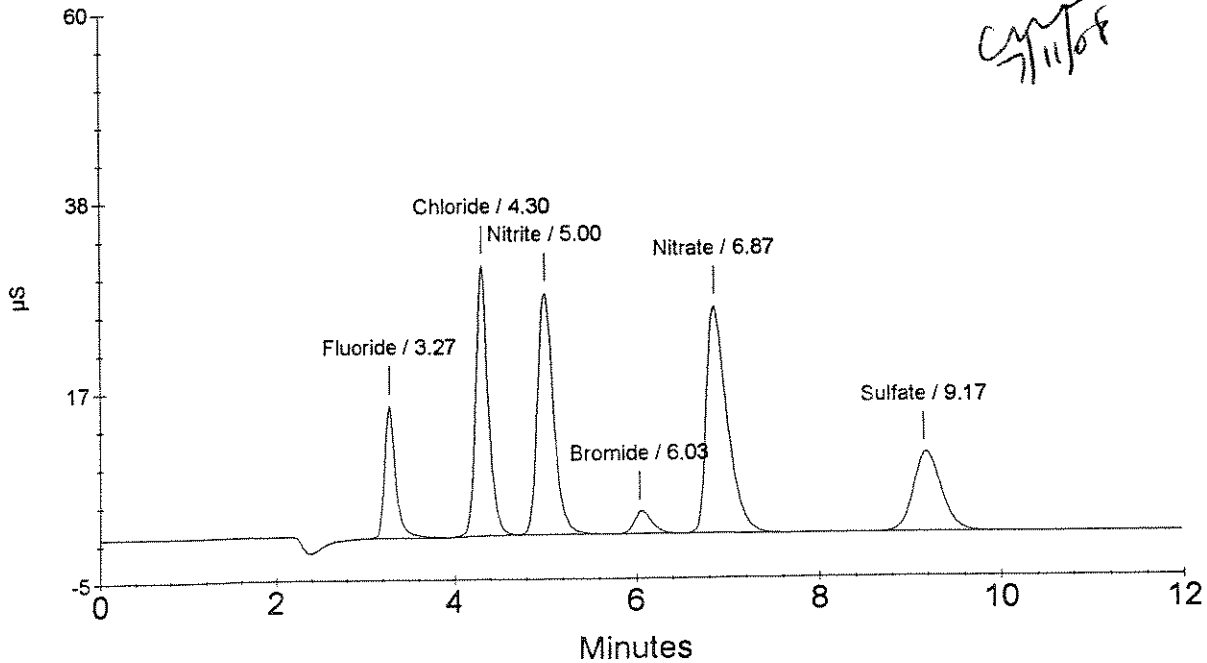
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	1.971	1282742
2	4.30	Chloride	6.370	2995721
3	5.00	Nitrite	3.659	3342989
4	6.03	Bromide	2.080	347083
5	6.87	Nitrate	3.653	4035788
6	9.17	Sulfate	7.679	1929688

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CM
7/11/08

Curve not valid for SO₄²⁻ analysis.
CM
7/11/08

ICV



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : ICB
 Data File Name : ...\\710_011.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/10/08 18:48:13

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

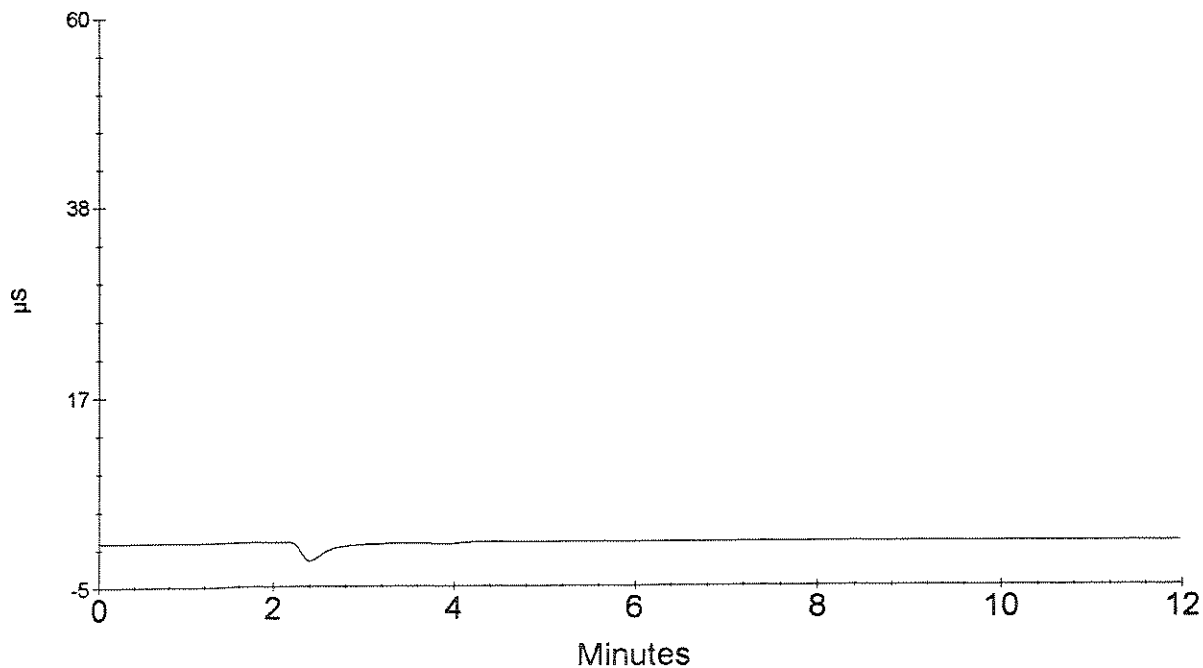
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK
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7/11/08

ICB



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : LCS
 Data File Name : ...710_012.DXD
 Method File Name : ...20080710.met
 Date Time Collected : 7/10/08 19:02:33

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

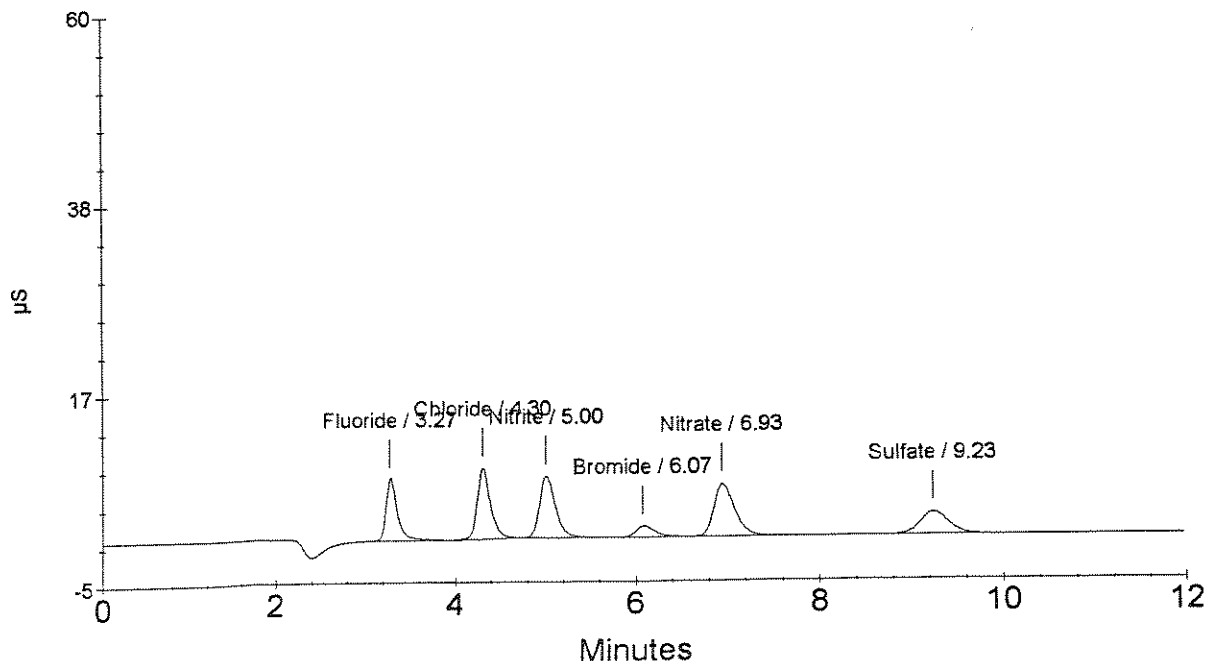
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.966	631941
2	4.30	Chloride	1.791	832583
3	5.00	Nitrite	0.954	856913
4	6.07	Bromide	1.073	182229
5	6.93	Nitrate	0.914	940921
6	9.23	Sulfate	2.152	554582

OK
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7/14/08

LCS



Method Report - 20080710.met

Method Information : Select Module(s)

System Name : DX-Lan IC#4
System Number : 1
Method Type : Ion Chromatography
Column : AS-14 (022939) AG-14 (022002)
Analyst : C. WOODS
Comment : Calibration 07.10.2008

ED40 Timed Events

Module Name :
Module Serial Number :
Operating Mode : Conductivity
SRS Current : 100 mA
Temperature Compensation : 1.7
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000	*		Low	Low	Open	Closed	
0.00	10.000	*		Low	Low	Open	Closed	
0.10	10.000			Low	Low	Closed	Closed	
2.20	0.010	*		Low	Low	Open	Closed	Begin

ED40 Detector Parameters

Detector Type : ED40
Data collection time (minutes) : 12.00
Data Collection Rate : 1.00
Real time plot scale maximum (µS) : 60.000
Real time plot scale minimum (µS) : -5.000

ED40 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 15.00
Peak threshold : 3.00
Peak area reject (area counts) : 10.00
Reference peak area reject (area counts) : 1000.00

ED40 Smoothing Parameters

Filter Type : No filter

ED40 Report Data

Report Format File : J:\ACQUADATA\IC\METHOD.ACI\lc#4\As14.rpt
Print Sample Analysis : Yes
Print Calibration Update : Yes
Print Check Standard : Yes
System Suitability Tests :
No system suitability tests selected.

ED40 Integration Data Events

Time	Description
0.00	Stop peak detection
2.50	Force baseline at start of all peaks
3.03	Halve peak threshold
3.05	Start peak detection
6.75	Double peak threshold

ED40 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units : mg/L
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

ED40 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.27 min	10.00 %	
Chloride	4.30 min	10.00 %	
Nitrite	5.00 min	10.00 %	
Bromide	6.07 min	10.00 %	
Nitrate	6.87 min	10.00 %	
Sulfate	9.20 min	10.00 %	

ED40 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.27 min	0.05	5
Chloride	4.30 min	0.1	10
Nitrite	5.00 min	0.05	5
Bromide	6.07 min	0.05	5
Nitrate	6.87 min	0.05	5
Sulfate	9.20 min	0.1	10

ED40 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.27 min	Linear	Include	Area	Fluoride	0.00
Chloride	4.30 min	Linear	Include	Area	Fluoride	0.00
Nitrite	5.00 min	Linear	Include	Area	Fluoride	0.00
Bromide	6.07 min	Linear	Include	Area	Fluoride	0.00
Nitrate	6.87 min	Linear	Include	Area	Fluoride	0.00
Sulfate	9.20 min	Linear	Include	Area	Fluoride	0.00

ED40 Component = Fluoride Levels Table

Retention Time : 3.27 min
 Amount units : mg/L
 Replicate unit type : Area
 Number of levels : 9
 Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	36787.5 <i>cm 7/11/08</i>
2	0.05	23624
3	0.10	88255.5
4	0.25	180708
5	0.50	320033
6	1.00	620779
7	2.50	1.63018e + 006
8	4.00	2.56813e + 006
9	5.00	3.27065e + 006

ED40 Component = Chloride Levels Table

Retention Time : 4.30 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	70747.5 <i>cmw 7/11/08</i>
2	0.10	105687
3	0.20	130731
4	0.50	223123
5	1.00	412873
6	2.00	808630
7	5.00	2.2309e+006
8	8.00	3.72229e+006
9	10.00	4.81917e+006

ED40 Component = Nitrite Levels Table

Retention Time : 5.00 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	70747.5 <i>cmw 7/11/08</i>
2	0.05	37742
3	0.10	73459.5
4	0.25	194895
5	0.50	404176
6	1.00	827577
7	2.50	2.25196e+006
8	4.00	3.65418e+006
9	5.00	4.60455e+006

ED40 Component = Bromide Levels Table

Retention Time : 6.07 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	27470 cum 7/11/08
2	0.05	15181.5
3	0.10	23720
4	0.25	50308
5	0.50	91342.5
6	1.00	169980
7	2.50	416821
8	4.00	659027
9	5.00	826270

ED40 Component = Nitrate Levels Table

Retention Time : 6.87 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5310.5 cum 7/11/08
2	0.05	41482
3	0.10	71739.5
4	0.25	200167
5	0.50	429630
6	1.00	910119
7	2.50	2.60027e + 006
8	4.00	4.39889e + 006
9	5.00	5.66235e + 006

ED40 Component = Sulfate Levels Table

Retention Time : 9.20 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7283 <i>an 7/11/08</i>
2	0.10	180212
3	0.20	80616
4	0.50	120542
5	1.00	238036
6	2.00	459599
7	5.00	1.22329e + 006
8	8.00	2.00212e + 006
9	10.00	2.53631e + 006

ED40 XY Data Parameters

GP40 Timed Events

Module Name :

Module Serial Number :

Description : Anions on an AS-16/AG-16 Column setup with a carbonate/bicarbonate eluent.

High Pressure Limit : 4000.0

Low Pressure Limit : 30.0

Eluent A :

Eluent B : 35mM Na₂CO₃ / 10mM NaHCO₃

Eluent C :

Eluent D :

Piston Size : Standard

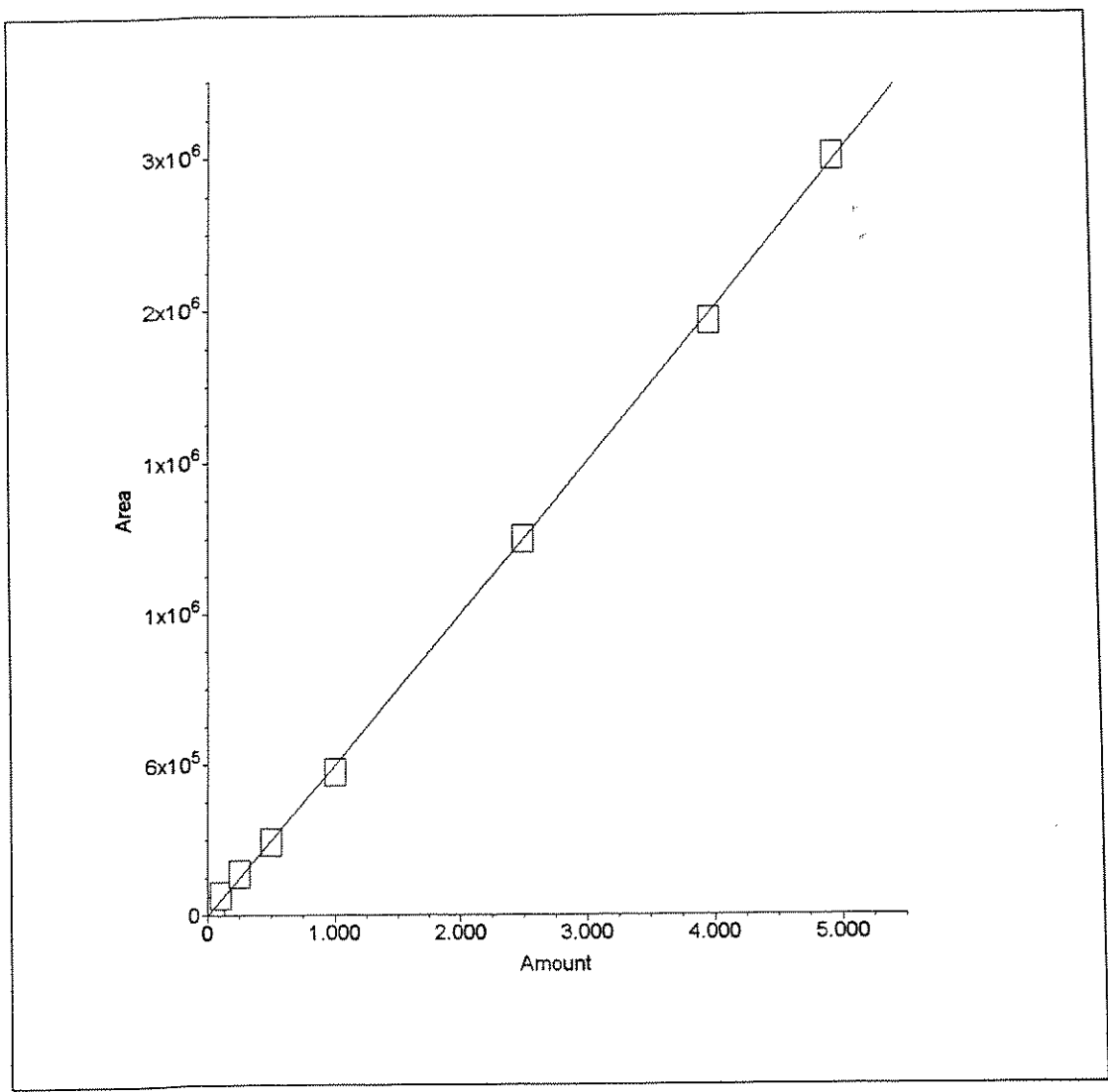
Pressure Unit : psi

Oven Not Installed

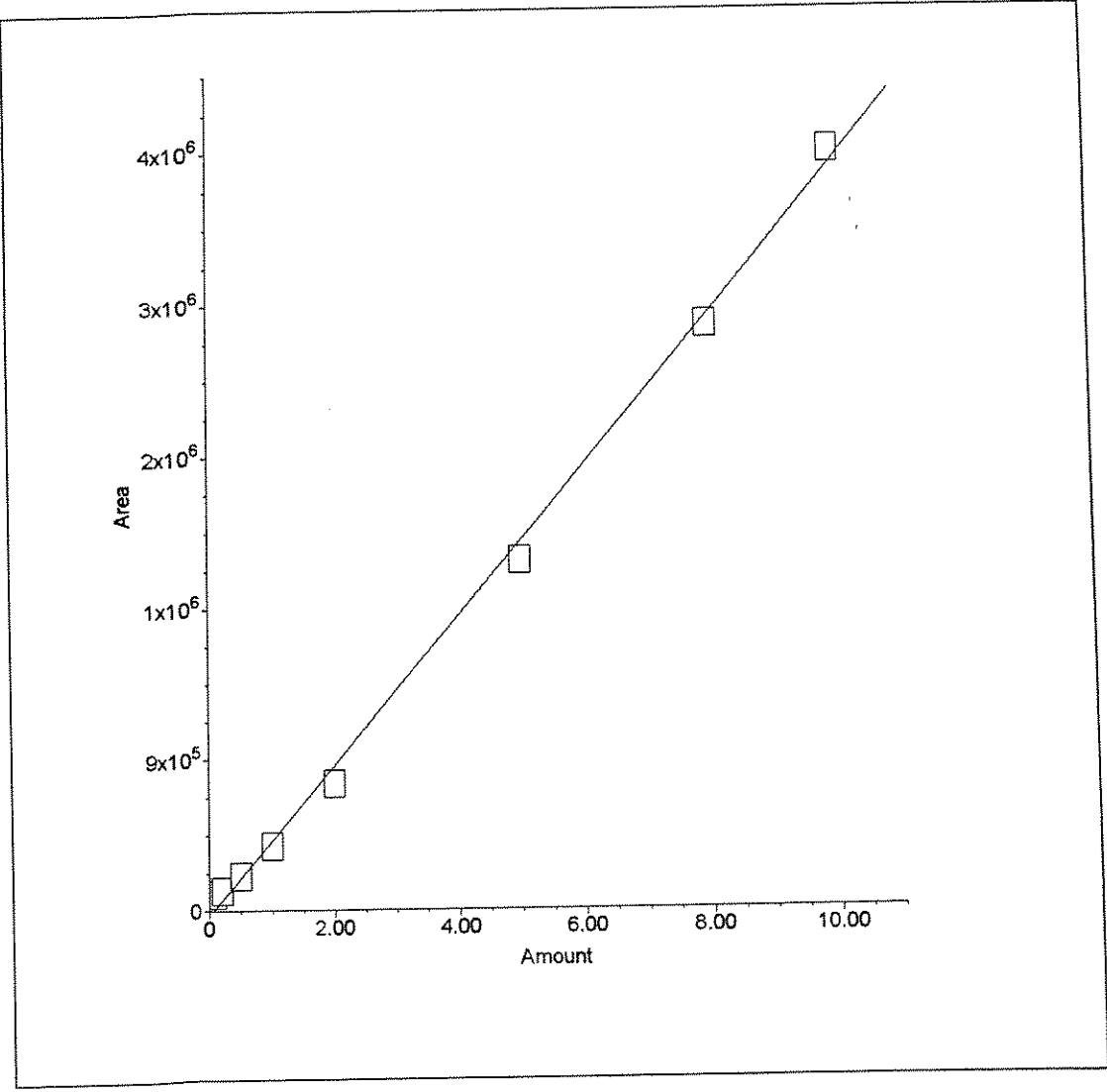
Time	Flow	%A	%B	%C	%D	Curve	Comment
Init	1.00	0.00	100.00	0.00	0.00	5	start AS40 load cycl
0.00	1.00	0.00	100.00	0.00	0.00	5	preparing to inject
0.10	1.00	0.00	100.00	0.00	0.00	5	preparing to inject
2.20	1.00	0.00	100.00	0.00	0.00	5	Injecting sample
3.20	1.00	0.00	100.00	0.00	0.00	5	Finished injection

Time	Valve	Column	TTL1	TTL2	Relay1	Relay2
Init	Load	A	High	Low	Open	Open
0.00	Load	A	High	Low	Open	Open
0.10	Load	A	High	High	Open	Open
2.20	Inject	A	High	Low	Open	Open
3.20	Load	A	Low	Low	Open	Open

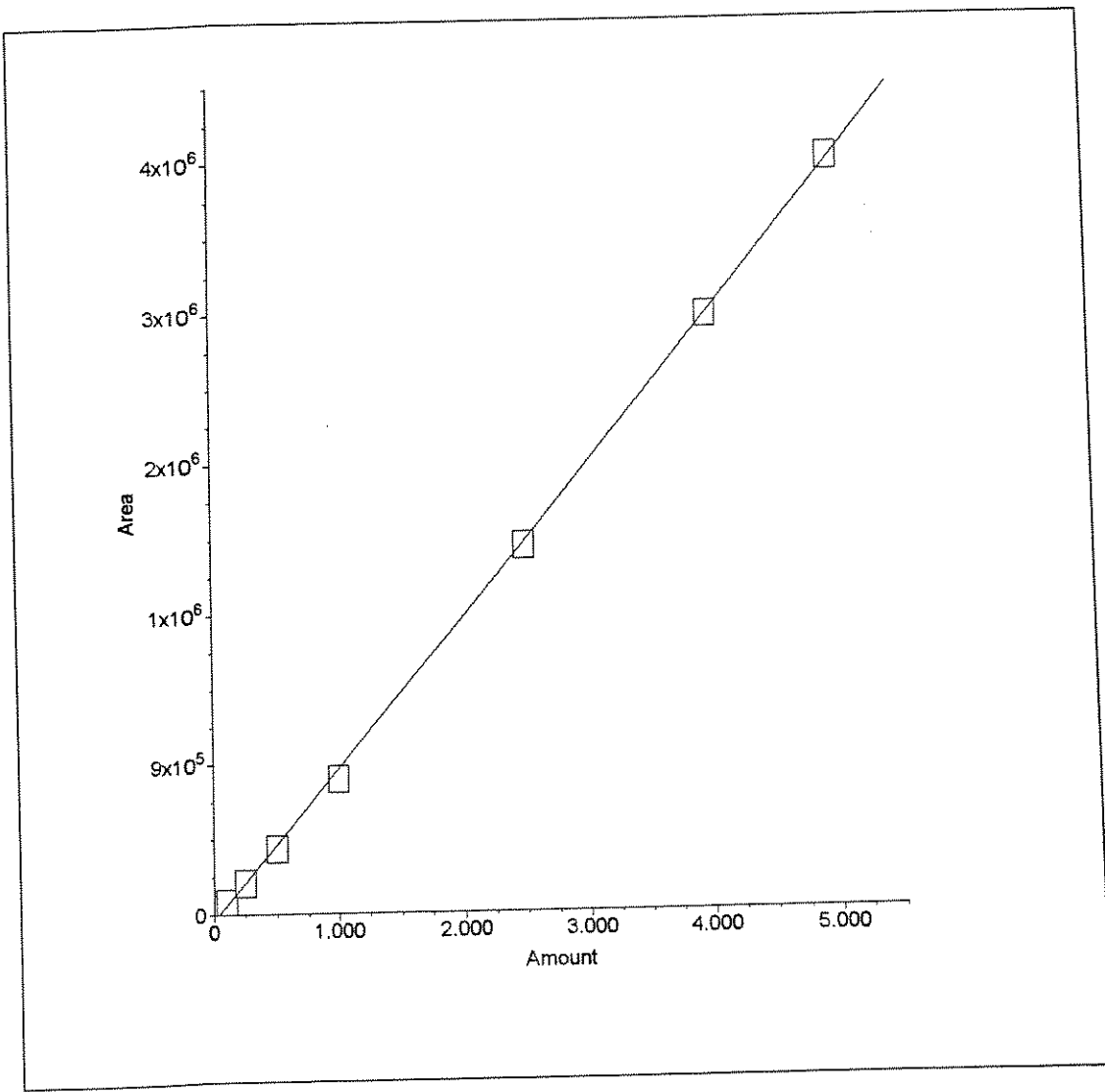
1. Component:Fluoride
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.999729$
Amt= $1.54e-006 * Resp - 0.0003055$



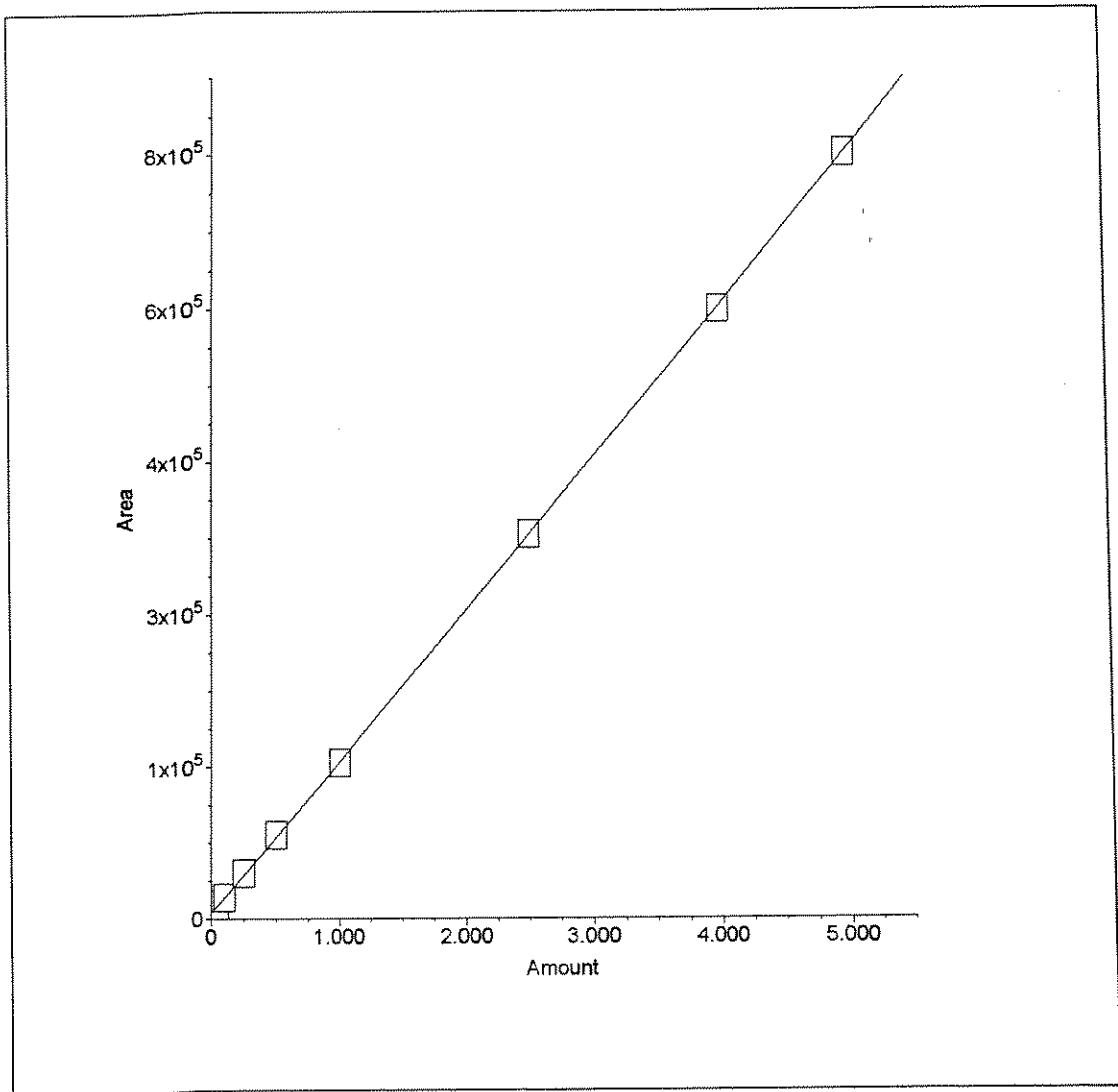
2. Component: Chloride
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2=0.997996$
Amt= $2.107e-006 * Resp + 0.06164$



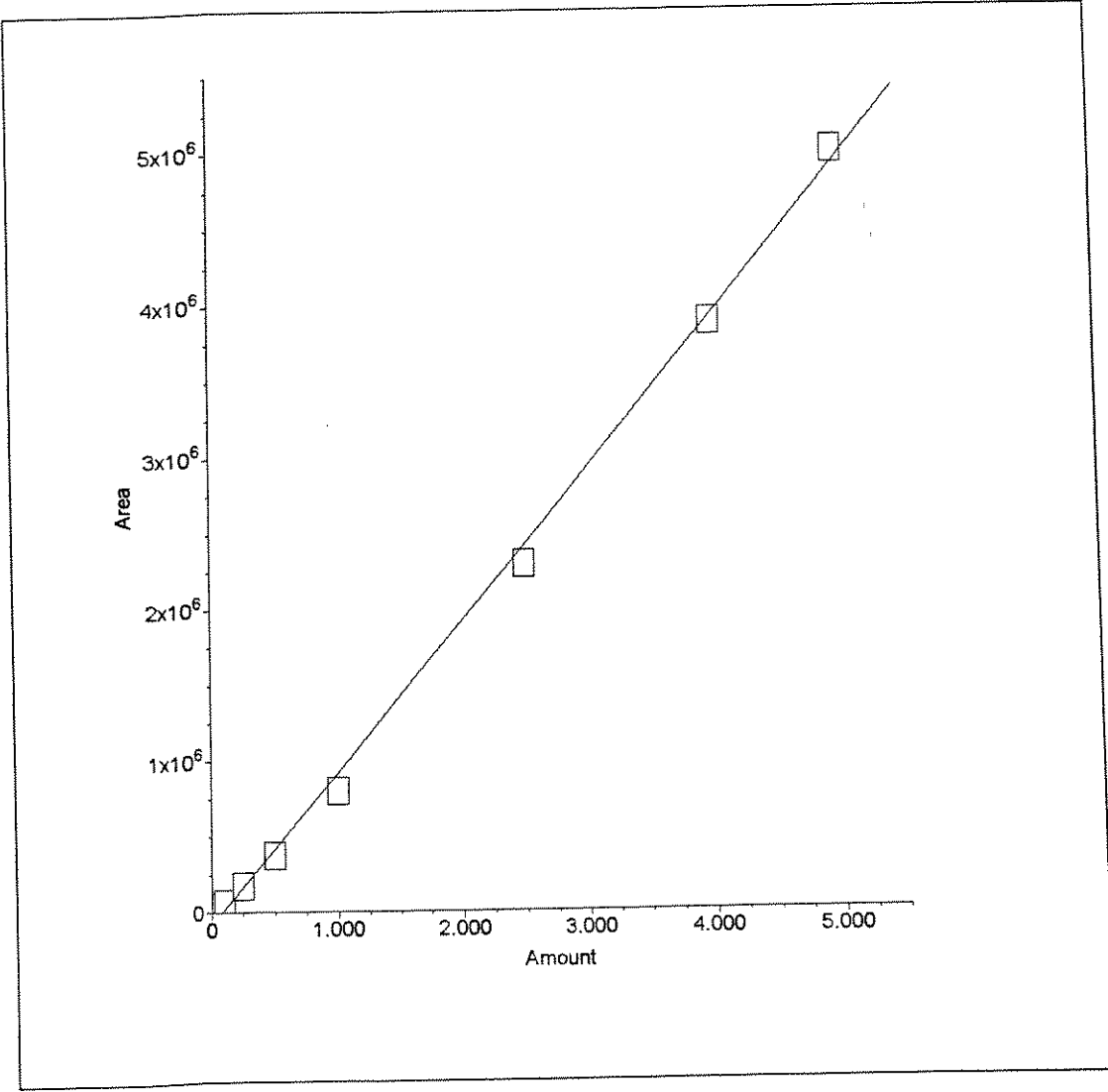
3. Component: Nitrite
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2 = 0.999698$
Amt = $1.083e-006 * Resp + 0.03882$



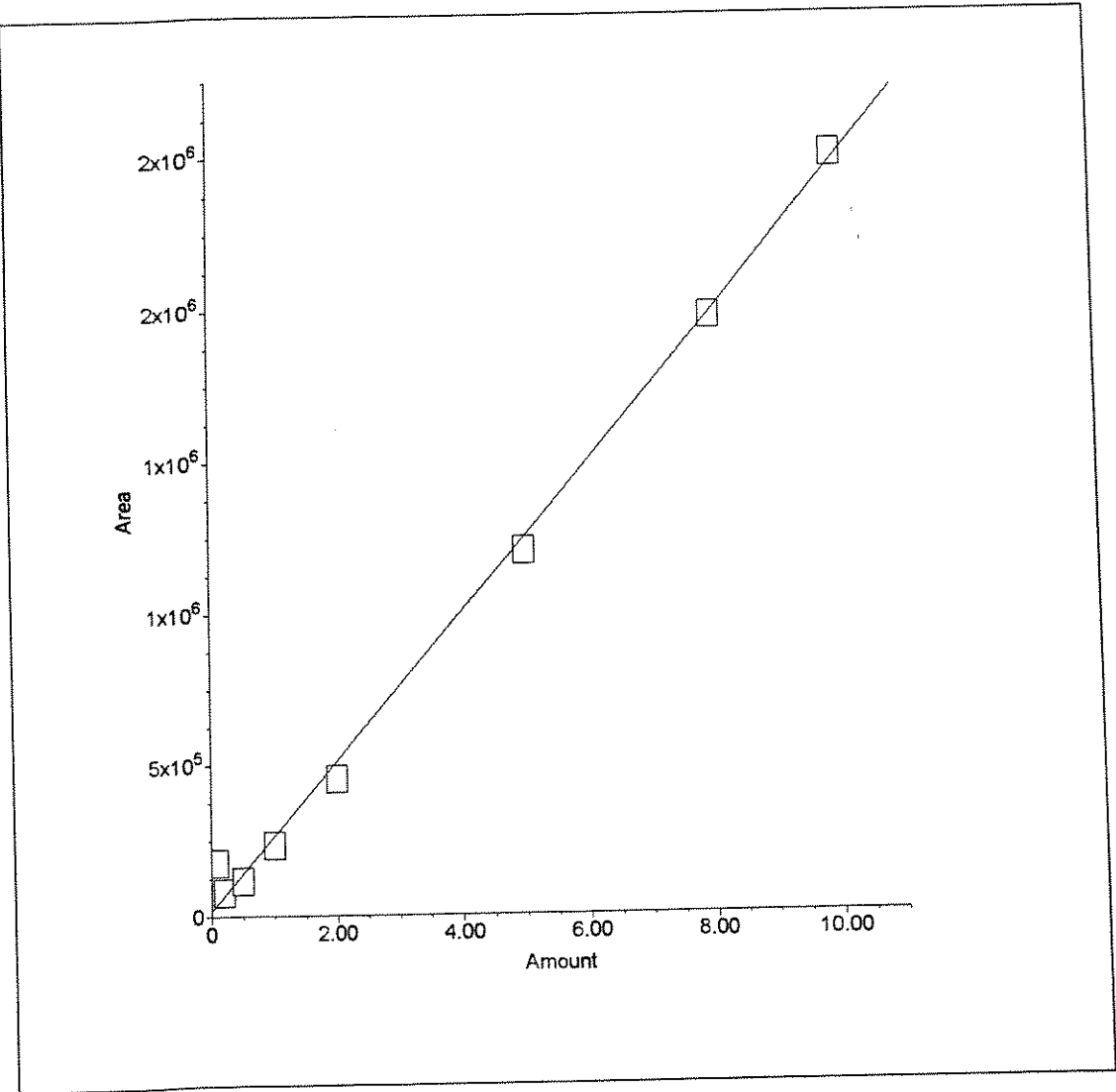
4. Component: Bromide
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2 = 0.999911$
Amt = $6.107e-006 * Resp + -0.03957$



5. Component:Nitrate
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.998231$
Amt= $8.852e-007 * Resp + 0.08098$



6. Component: Sulfate
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2=0.996299$
Amt= $4.02e-006 * Resp + -0.07754$



Run #: 163166
 Analyte: MBAS SM5540C SURFACTANTS
 Printed: 06/30/08 11:29

R44650
 1 copy

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844650	1112065	WATER	1.17	4.0	0.0200			06/26/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	1.73	10.0	0.0200			06/26/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.00810	1.0	0.0200			06/26/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	0.683	4.0	0.0200			06/26/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	1.05	4.0	0.0200			06/26/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	1.07	4.0	0.0200			06/26/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	1.61	5.0	0.0200			06/26/08	RUN	ASPB
BLK2		1113535	WATER	0.0200	1.0	0.0200			06/26/08		
SPKB		1113536	WATER	0.0231	1.0	0.0200	115.5		06/26/08		
SPKB		1113537	WATER	0.407	1.0	0.0200	101.8		06/26/08		

Records printed: 10

Reviewed & Approved
 By: Chudry
 Date: 7/1/08

Analyte: Surfactants (MBAs)
 Method: EPA 425.1 / SM20 5540C

Analyst: DCB
 Pipette: Volumetric

Date: 6/26/08
 Time: 8:00

Calibration:

Std	Conc.	Absorb.	Result	% Rec
1	0.00	0.000	0.00311	
2	0.02	0.021	0.02407	120.3%
3	0.04	0.038	0.04103	102.6%
4	0.06	0.056	0.05900	98.3%
5	0.08	0.076	0.07896	98.7%
6	0.10	0.092	0.09492	94.9%
7	0.15	0.140	0.14282	95.2%
8	0.20	0.195	0.19771	98.9%
9	0.25	0.251	0.25359	101.4%
10	0.30	0.305	0.30748	102.5%
11	0.40	0.395	0.39730	99.3%

Curve Date: 6/16/08
 C.C = 0.999428
 y-int. = -0.003118
 Slope: 1.002064

Submission #	Order #	Sample Vol. (mLs)	Absorbance @ 652 nm	MBAs mg/L	Dilution	Final Result mg/L
1	ICV		0.305	0.3075		102.5%
2	ICB/PB	500.000	0.000	0.0031	1.0	0.0031
3	CCV	500.000	0.280	0.2825	1.0	0.2825
4	CCB/PB	500.000	0.000	0.0031	1.0	0.0031
5	LCS-LL	500.000	0.020	0.0231	1.0	0.0231
6	LCS-HL	500.000	0.405	0.4073	1.0	0.4073
7	R-44650	1112065	500.000	0.290	4.0	1.1701
8		1112066	500.000	0.170	10.0	1.7276
9		1112067	500.000	0.005	1.0	0.0081
10		CCV	500.000	0.280	1.0	0.2825
11		CCB/PB	500.000	0.000	1.0	0.0031
12		1112487	500.000	0.168	4.0	0.6831
13		1112486	500.000	0.260	4.0	1.0503
14		1112489	500.000	0.265	4.0	1.0703
15		1112488	500.000	0.320	5.0	1.6123
16		CCV	500.000	0.280	1.0	0.2825
17		CCB/PB	500.000	0.000	1.0	0.0031
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						

Handwritten: 6/17/08

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

Surfactants - Curve analyzed on 6/16/08

CMW
6/20/08

(A) Standards

#	mLs 1ppm Std	mLs DI	Conc. (ppm)
1	0	500	0.00
2	10	490	0.02
3	20	480	0.04
4	30	470	0.06
5	40	460	0.08
6	50	450	0.10
7	75	425	0.15
8	100	400	0.20
9	150 ¹²⁵	375	0.25
10	150	350	0.30
11	200	300	0.40

(B) I/CCV

- Add 150mLs of 1ppm LAS reference to sep. funnel + add 350mLs DI. Analyze. Prepare fresh each run. True Value = 3.0ppm.

(C) LCS - Low Level

- Add 10mLs of 1ppm LAS Standard to sep. funnel + add 490mLs DI. Analyze. Prepare fresh each run. True Value = 0.02ppm.

(D) LCS - high level

- Add 200mLs of 1ppm LAS Standard to sep. funnel + add 300mLs DI. Analyze. Prepare fresh each run. True Value = 0.40ppm.

For this cal, the following solutions were used:

1ppm Standard: WC85160A

1ppm Reference: WC85160B

9/28/07
 TC (A) LCS/MS for AVS
 To 10.0 g Ottawa Sand or Sample add
 - 1 mL S sulfide ^{working std. w/ 500} ~~reference~~ for MS
 - 2 mL Sulfide ^{w/ 1000 std. w/ 500} ~~reference~~ for LCS

(B) CCV for AVS
 use the 4 mL cal. std. from WCSS045D.

(C) CCB for AVS
 use the 0.00 Cal. Std. from WCSS045D.

10/11/07
 GN (D) TKN Digest Reagent
 - same as WCSS040E. Exp. 1 month 11/1/07

10/1/07
 (E) Received from VWR
 (E) (1) x 120 mL Linear Alkylbenzene Sulfonate (LAS)
 Cat. no. 4350-4 RICCA Lot # 2709220
 CAS no 7664-93-9 Store @ 4°C exp 9/08

10/1/07
 RP (F) FTSS Reference
 0.2270g Krypton (W669285G) brought to
 1000g w/ DI. Stored @ 4°C in plastic bottle.
 TV = 227 mg/L exp. 10/1/08

10/1/07
 BB Received from VWR
 (G) (2) x 125g Acetic Acid, Cat # 0938-05, JT Baker
 Lot # E22615, CAS # 50-81-7. Store w RT.
 Expires 10/1/10
 (H) (1) x 125g Potassium Iodide, Cat # PX1505-3,
 EMD Lot # 46285714, CAS # 7681-11-0. Store @ R.T.
 Expires 10/1/10.
 (I) (1) x 500 mL Phenol (liquified), Cat # PX0511-1,
 EMD Lot # 46318, CAS # 108-95-2. Store in
 flammable cabinet. Expires 10/1/10
 (J) (1) x 500 mL Calcium Standard, 1 mL = 1 mg CaCO₃.
 Cat # VW3395-2, VWR Lot # 7064. Store @ 4°C.
 Expires 3/31/08
 (K) (1) x 500g Sodium Acetate Trihydrate, Cat # 7610,
 EMD Lot # 1106B043, CAS # 6131-90-4. Store @ R.T.
 Expires 10/1/10

10/1/07
 AB Received
 (A) (1)
 BDM
 file

Received
 (B) (1) x
 Fisher
 Expu

Received
 (C) (3) x
 Cat #
 Name
 Expu

10/2/07
 NM (D) Post-
 To a
 (WCSS0
 thorough
 to volu
 amber g

(E) Hypoc
 -same

(F) c.S M
 -same

10/2/07
 (H) Alkalinity 6
 100 mL
 with D

10/2/07
 AB (I) FAS TH
 Same a

(J) 0.00 Std
 same a

2/13/08
BBReceived from VWR(A) (1) x 4L Sulfuric acid, 0.02000N, Cat# VW3299-4
VWR Lot# 7312, CAS# 7664-93-9. Store @ R.T.

Expires 11/30/08

(B) (1) x 1 L Silica Standard, 10 mg/L, Cat# VW3618-1,
VWR Lot# 7338, CAS# 6834-92-0. Store @ R.T.

Expires 8/5/08

(C) (1) x 120mL Linear Alkylbenzene Sulfonate (LAS)
Standard, 1000 mg/L. Cat# 4350-4, RICOA Lot#
1710411, CAS# 68411-30-3, 7664-93-9. Store @ 4°C.

Expires 10/2008.

KR
2/14/08(D) TSS Reference0.2153g Naolin (WC692856) brought to 1000g w/ DI.
Store at 4°C in a plastic bottle.

TV = 215 mg/L exp: 02/14/2009

2/14/08
NM(E) Sodium Phenolate - NH₃

-same as WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN

-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

To a tared 1 liter amber glass jar add:

- 75.0g Sodium Salicylate (WC85078B)

- 0.50g Sodium Nitroprusside (WC85103D)

- 454g UPDI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH₃

-same as WC85105 C. Exp. 1 year, 2/14/09.

(J) Buffer - NH₃

-same as WC85094 B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN 1

TC To acet

To a 2

- 268g

- 14.6g

to ~500

Slowly

Dissolve

to vol.

2/14/08
RP(B) Rec'd 1

(1) x 100 pc

CAS# 68

Rec'd

exp. 1

KR
02/14/08(C) TSS Ref

0.3003

with T

2/15/08 (D) Post-T

NM TO a

(WC85111)

Pour off 10

mix there

(E) Hypochl

15.0 mL

Prepare f

2/19/08 (F) NH₃ (

NM -same as

(G) Hypochl

-same a

Run #: 163178

Analyte: MBAS SM5540C SURFACTANTS

Printed: 07/01/08 06:36

R444666
R444650
2 copies

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844666	1112361	SOIL/SEDIME	1.808	10.0	0.200			06/27/08		ASPB
ESMP	R2844666	1112362	SOIL/SEDIME	0.8100	10.0	0.200			06/27/08	QC	ASPB
LDUP		1113549	SOIL/SEDIME	0.8100	10.0	0.200			06/27/08		
SPK1		1113550	SOIL/SEDIME	17.28	10.0	0.200	82.3		06/27/08		
ESMP	R2844666	1112363	SOIL/SEDIME	1.309	10.0	0.200			06/27/08		ASPB
ESMP	R2844666	1112364	SOIL/SEDIME	0.8100	10.0	0.200			06/27/08		ASPB
BLK5		1113551	SOIL/SEDIME	1.310	10.0	0.200			06/27/08		
ESMP	R2844666	1112365	SOIL/SEDIME	1.309	10.0	0.200			06/27/08		ASPB
ESMP	R2844650	1112809	WATER	1.03	10.0	0.0200			06/27/08		ASPB
ESMP	R2844650	1112810	WATER	0.238	1.0	0.0200			06/27/08		ASPB
ESMP	R2844650	1112811	WATER	0.402	1.0	0.0200			06/27/08		ASPB
ESMP	R2844650	1112812	WATER	0.00810	1.0	0.0200			06/27/08		ASPB
ESMP	R2844650	1112871	WATER	0.402	1.0	0.0200			06/27/08		ASPB
ESMP	R2844650	1112872	WATER	0.258	1.0	0.0200			06/27/08		ASPB
ESMP	R2844650	1112874	WATER	0.263	1.0	0.0200			06/27/08	QC	ASPB
LDUP		1113556	WATER	0.253	1.0	0.0200		4.03	06/27/08		
SPK1		1113557	WATER	0.445	1.0	0.0200	91.2		06/27/08		
BLK2		1113558	WATER	0.0200	1.0	0.0200			06/27/08		
SPKB		1113559	WATER	0.0251	1.0	0.0200	125.5		06/27/08		
SPKB		1113560	WATER	0.402	1.0	0.0200	100.6		06/27/08		

Records printed: 20

Reviewed & Approved

By: Chutzy

Date: 7/1/08

Analyte: Surfactants (MBAs)
 Method: EPA 425.1 / SM20 5540C

Analyst: DCB
 Pipette: Volumetric

Date: 6/27/08
 Time: 10:10

Calibration:

Std	Conc.	Absorb.	Result	% Rec
1	0.00	0.000	0.00311	
2	0.02	0.021	0.02407	120.3%
3	0.04	0.038	0.04103	102.6%
4	0.06	0.056	0.05900	98.3%
5	0.08	0.076	0.07896	98.7%
6	0.10	0.092	0.09492	94.9%
7	0.15	0.140	0.14282	95.2%
8	0.20	0.195	0.19771	98.9%
9	0.25	0.251	0.25359	101.4%
10	0.30	0.305	0.30748	102.5%
11	0.40	0.395	0.39730	99.3%

Curve Date: 6/16/08
 C.C = 0.999428
 y-int. = -0.003118
 Slope: 1.002064

Submission #	Order #	Sample Vol. (mLs)	Absorbance @ 652 nm	MBAs mg/L	Dilution	Final Result	
1	ICV		0.305	0.3075		102.5%	
2	ICB/PB	500.000	0.000	0.0031	1.0	0.0031	
3	CCV	500.000	0.280	0.2825	1.0	0.2825	
4	CCB/PB	500.000	0.000	0.0031	1.0	0.0031	
5	LCS-LL	500.000	0.022	0.0251	1.0	0.0251	
6	LCS-HL	500.000	0.400	0.4023	1.0	0.4023	
7	M BLK 6/26	500.000	0.010	0.0131	10.0	0.1309	
8	R-44666	1112361	500.000	0.015	0.0181	10.0	0.1808
9		1112362	500.000	0.005	0.0081	10.0	0.0810
10		1112362D	500.000	0.005	0.0081	10.0	0.0810
11		1112362S	500.000	0.170	0.1728	10.0	1.7276
12		1112363	500.000	0.010	0.0131	10.0	0.1309
13		1112364	500.000	0.005	0.0081	10.0	0.0810
14		1112365	500.000	0.010	0.0131	10.0	0.1309
15		CCV	500.000	0.280	0.2825	1.0	0.2825
16		CCB/PB	500.000	0.000	0.0031	1.0	0.0031
17	R-44650	1112809	500.000	0.100	0.1029	10.0	1.0291
18		1112810	500.000	0.235	0.2376	1.0	0.2376
19		1112811	500.000	0.400	0.4023	1.0	0.4023
20		1112812	500.000	0.005	0.0081	1.0	0.0081
21		1112871	500.000	0.400	0.4023	1.0	0.4023
22		1112872	500.000	0.255	0.2576	1.0	0.2576
23		1112874	500.000	0.260	0.2626	1.0	0.2626
24		1112874D	500.000	0.250	0.2526	1.0	0.2526
25		1112874S	500.000	0.220	0.2227	2.0	0.4453
26		CCV	500.000	0.280	0.2825	1.0	0.2825
27		CCB/PB	500.000	0.000	0.0031	1.0	0.0031

mg/L
 $\times 250 \div 25 = 1.309$
 $\times 250 \div 25 = 1.808$
 $\times 250 \div 25 = 0.810$
 $\times 250 \div 25 = 0.810$
 $\times 250 \div 25 = 17.276$
 $\times 250 \div 25 = 1.309$
 $\times 250 \div 25 = 0.810$
 $\times 250 \div 25 = 1.309$

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

Columbia Analytical Services
 1 Mustard Street, Rochester, NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: DCB

Date: 6/27/08

Analysis: MBAS (Surfactants)

Instrument: Milton Roy Spec 21

Quality Control:

Curve Date: 06/16/08

	Same as Log Book #	Same as Log Book Date	Stocks Prep. Log#, Date,	Stock Sol (mls)	Stock Sol (mg/L)	Final Vol (mls)	True Value (mg/L)
a) Standards Prep:	WC85166A	6/20/08	WC85110C,2/13/08				
b) I/CCV Prep:	WC85166B	6/20/08	WC85046E, 10/1/07	150	1	500	0.3
c) LCS-LL Prep:	WC85166C	6/20/08	WC85110C,2/13/08	10	1	500	0.02
c) LCS-HL Prep:	WC85166D	6/20/08	WC85110C,2/13/08	200	1	500	0.4

Instrument log filled in? (Y) (N)

Packages:

Copy and attach Standards Preparation.

Comments:

All soil samples are diluted 50mls → 500mls at time of analysis
 1112809 + 11128745 diluted at spec

matrix spike is 100ml of 10ppm LA's Reference Std giving a SR of 0.2

Surfactants - Curve analyzed on 6/16/08

(A) Standards

CMW
6/20/08

#	mLs 1ppm Std	mLs DI	Conc. (ppm)
1	0	500	0.00
2	10	490	0.02
3	20	480	0.04
4	30	470	0.06
5	40	460	0.08
6	50	450	0.10
7	75	425	0.15
8	100	400	0.20
9	150 ¹²⁵	375	0.25
10	150	350	0.30
11	200	300	0.40

(B) I/CCV

- Add 150mLs of 1ppm LAS reference to sep. funnel + add 350mLs DI. Analyze. Prepare fresh each run. True Value = 3.0ppm.

(C) LCS - Low Level

- Add 10mLs of 1ppm LAS Standard to sep. funnel + add 490mLs DI. Analyze. Prepare fresh each run. True Value = 0.02ppm.

(D) LCS - high level

- Add 200mLs of 1ppm LAS Standard to sep. funnel + add 300mLs DI. Analyze. Prepare fresh each run. True Value = 0.40ppm.

For this cal., the following solutions were used:

1ppm Standard: WC85160A

1ppm Reference: WC85160B

9/26/07 TC (A) LCS/MS for AVS
 To 10.0 g Ottawa Sand or Sample add
 - 1 mLs sulfide ^{working std (w/0.50)}
 - 2 mLs sulfide ^{working std (w/0.50)} ~~reference~~ for MS
~~reference~~ for LCS

(B) CCV for AVS
 use the 4 mL cal. std. from WCSS045D.

(C) COB for AVS
 use the 0.00 Cal. Std. from WCSS045D.

10/11/07 GN (D) TKN Digest Reagent
 - same as WCSS040F. Exp. 1 month 11/1/07

10/1/07 (E) Received from VWR
 (1) x 120 mL Linear Alkylbenzene Sulfonate (LAS)
 Cat. no. 4350-4 RICCA Lot # 2709220
 CAS no 7664-93-9 Store @ 4°C exp 9/08

10/1/07 RP (F) ITSS Reference
 0.2270g Kaitin (WCS69285G) brought to
 1000g w/ DI. Stored @ 4°C in plastic bottle.
 TN = 227 mg/L exp. 10/1/08

10/1/07 BB Received from VWR
 (G) (2) x 125g Ascorbic Acid, Cat # 0938-05, JT Baker
 Lot # E22615, CAS # 50-81-7. Store @ RT.
 Expires 10/1/10

(H) (1) x 125g Potassium Iodide, Cat # PX1505-3,
 EMD Lot # 46285714, CAS # 7681-11-0. Store @ RT.
 Expires 10/1/10.

(I) (1) x 500 mL Phenol Liquefied, Cat # PX0511-1,
 EMD Lot # 46318, CAS # 108-95-2. Store in
 flammable cabinet. Expires 10/1/10

(J) (1) x 500 mL Calcium Standard, 1 mL = 1 mg CaCO₃.
 Cat # VW3395-2, VWR Lot # 7064. Store @ 4°C.
 Expires 3/31/08

(K) (1) x 500g Sodium Acetate Trihydrate, Cat # 7610,
 EMD Lot # 1106B043, CAS # 6131-90-4. Store @ R.T.
 Expires 10/1/10

10/1/07 BB Received
 (A) (1)
 BDH
 flu

Received
 (B) (1) x
 Fisher
 Expu

Received
 (C) (3) x
 Cat #
 same
 Expu

10/2/07 NM (D) Post-
 To a
 (WCSSC
 thorough
 to volun
 amber g

(E) Hypoc
 -same

(F) 0.8 M
 -same

10/2/07 sup (H) alkalinity F
 100 mL
 with DI

10/2/07 BB (I) FAS Tit
 Same as

(J) 0.003M
 same as

2/13/08 Received from VWR

BB

- (A) (1) x 4L Sulfuric acid, 0.02000N, Cat# VW3299-4
VWR Lot# 7312, CAS# 7664-93-9. Store @ R.T.
Expires 11/30/08
- (B) (1) x 1 L Silica Standard, 10 mg/L, Cat# VW3618-1,
VWR Lot# 7338, CAS# 6834-92-0. Store @ R.T.
Expires 8/5/08
- (C) (1) x 120mL Linear Alkylbenzene Sulfonate (LAS)
Standard, 1000 mg/L. Cat# 4350-4, RICEA Lot#
1710411, CAS#s 68411-30-3, 7664-93-9. Store @ 4°C.
Expires 10/2008.

KR
2/14/08(D) TSS Reference

0.2153g Naolin (WC692856) brought to 1000g w/DI.
Store at 4°C in a plastic bottle.
TV = 215 mg/L exp: 02/14/2009

2/14/08
NM(E) Sodium Phenolate - NH₃

-same as WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN

-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

To a tared 1 liter amber glass jar add:

- 75.0g Sodium Salicylate (WC85097 B)
- 0.50g Sodium Nitroprusside (WC85103 D)
- 454g UPDI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH₃

-same as WC85105 C. Exp. 1 year, 2/14/09.

(J) Buffer - NH₃

-same as WC85044 B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN I

TC To a 2
to a 2
- 268g
- 14.6g
to ~500
Slowly
Dissolve
to vol.

2/14/08
RP(B) Prec'd I

(1) x 100 pe
CAS # 685
Rec'd
exp. 1

KR
02/14/08(C) TSS Ref

0.3003
with T

2/15/08 (D) Post-T

NM TO a
(WC85111
Pour off 10
mix thera

(E) Hypochl

15.0 mLs
Prepare 1

2/19/08 (F) NH₃ (

NM - same as

(G) Hypochl

- same a

Analyte: Surfactants (MBAs)
 Method: EPA 425.1 / SM20 5540C

Analyst: DCB
 Pipette: Volumetric

Date: 6/28/08
 Time: 11:25

Calibration:

Std	Conc.	Absorb.	Result	% Rec
1	0.00	0.000	0.00311	
2	0.02	0.021	0.02407	120.3%
3	0.04	0.038	0.04103	102.6%
4	0.06	0.056	0.05900	98.3%
5	0.08	0.076	0.07896	98.7%
6	0.10	0.092	0.09492	94.9%
7	0.15	0.140	0.14282	95.2%
8	0.20	0.195	0.19771	98.9%
9	0.25	0.251	0.25359	101.4%
10	0.30	0.305	0.30748	102.5%
11	0.40	0.395	0.39730	99.3%

Curve Date: 6/16/08
 C.C = 0.999428
 y-int. = -0.003118
 Slope: 1.002064

Submission #	Order #	Sample Vol. (mLs)	Absorbance @ 652 nm	MBAs mg/L	Dilution	Final Result mg/L
1	ICV		0.305	0.3075		102.5%
2	ICB/PB	500.000	0.000	0.0031	1.0	0.0031
3	CCV	500.000	0.320	0.3225	1.0	0.3225
4	CCB/PB	500.000	0.000	0.0031	1.0	0.0031
5	LCS-LL	500.000	0.018	0.0211	1.0	0.0211
6	LCS-HL	500.000	0.420	0.4222	1.0	0.4222
7	1113427	500.000	0.150	0.1528	1.0	0.1528
8	1113428	500.000	0.115	0.1179	1.0	0.1179
9	1113426	500.000	0.360	0.3624	5.0	1.8119
10	1113430	500.000	0.155	0.1578	1.0	0.1578
11	1113429	500.000	0.335	0.3374	4.0	1.3497
12	CCV	500.000	0.320	0.3225	1.0	0.3225
13	CCB/PB	500.000	0.000	0.0031	1.0	0.0031
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						

7/1/08
 500

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

Surfactants - Curve analyzed on 6/16/08

CMW
6/20/08

Ⓐ Standards

#	mls 1ppm Std	mls DI	Conc. (ppm)
1	0	500	0.00
2	10	490	0.02
3	20	480	0.04
4	30	470	0.06
5	40	460	0.08
6	50	450	0.10
7	75	425	0.15
8	100	400	0.20
9	150 ¹²⁵	375	0.25
10	150	350	0.30
11	200	300	0.40

Ⓑ I/CCV

- Add 150mls of 1ppm LAS reference to sep. funnel + add 350mls DI. Analyze. Prepare fresh each run. True Value = 3.0ppm.

Ⓒ LCS - Low Level

- Add 10mls of 1ppm LAS Standard to sep. funnel + add 490mls DI. Analyze. Prepare fresh each run. True Value = 0.02ppm.

Ⓓ LCS - high level

- Add 200mls of 1ppm LAS Standard to sep. funnel + add 300mls DI. Analyze. Prepare fresh each run. True Value = 0.40ppm.

For this cal, the following solutions were used:

1ppm standard: WC85160A

1ppm Reference: WC85160B

9/28/07
TC

- (A) LCS/MS for AVS
To 10.0 g Ottawa Sand or Sample add
- 1 mLs sulfide ^{working std. w/ 0.05% S₂} ~~standard~~ for MS
- 2 mLs sulfide ^{w/ 0.05% S₂} ~~reference~~ for LCS

- (B) CCV for AVS
use the 4 mL cal. std. from WC85045D.
- (C) COB for AVS
use the 0.00 Cal. Std. from WC85045D.

10/11/07
GN

- (D) TKN DIEST REAGENT
- same as WC85040F. Exp. 1 month 11/1/07

10/1/07

- (E) (1) x 120 mL Linear Alkylbenzene Sulfonate (LAS)
cat. no. 4350-4 RICLA Lot # 2709220
CAS no 7664-93-9 Store @ 4°C exp 9/08

10/1/07
RP

- (F) TSS Reference
0.2270g Kradin (WC69285G) brought to
1000g w/ DI. Stored @ 4°C in plastic bottle.
TV = 227 mg/L exp 10/1/08

10/1/07
DB

- Received from VWR.
- (G) (2) x 125g Ascorbic Acid, Cat # 0938-05, JT Baker
Lot # E22615, CAS # 50-81-7. Store w RT.
Expires 10/1/10
- (H) (1) x 125g Potassium Iodide, Cat # PX1505-3.
EMD Lot # 46285714, CAS # 7681-11-0. Store @ R.T.
Expires 10/1/10.
- (I) (1) x 500 mL Phenol Liquefied, Cat # PX0511-1.
EMD Lot # 46318, CAS # 108-95-2. Store in
flammable cabinet. Expires 10/1/10
- (J) (1) x 500 mL Calcium Standard, 1 mL = 1 mg CaCO₃.
Cat # VW3395-2, VWR Lot # 7064. Store @ 4°C.
Expires 3/31/08
- (K) (1) x 500g Sodium Acetate Trihydrate, Cat # 7610,
EMD Lot # 1106B043, CAS # 6131-90-4. Store @ R.T.
Expires 10/1/10

10/1/07
AB

- Received
(A) (1)
BDH
fla
- Received
(B) (1) x
Fisher
Exp.
- Received
(C) (3) x
Cat #
Same
Exp.

10/2/07
NM

- (D) Post-
To a
(WC850
thorough
to volum
amber g
- (E) Hypoc
- same
- (F) C.S M
- same

10/2/07
ap

- (H) Alkalinity S
100 mL c
with DI

10/2/07
AB

- (I) FAS TO
Same a
- (J) 0.005M
same a

2/13/08
BB

Received from VWR

- (A) (1) x 4L Sulfuric Acid, 0.0200N, Cat# VW3299-4
VWR Lot# 7312, CAS# 7664-93-9. Store @ R.T.
Expires 11/30/08
- (B) (1) x 1 L Silica Standard, 10 mg/L, Cat# VW3618-1,
VWR Lot# 7338, CAS# 6834-92-0. Store @ R.T.
Expires 8/5/08
- (C) (1) x 120mL Linear Alkylbenzene Sulfonate (LAS)
Standard, 1000 mg/L. Cat# 4350-4, RICEA Lot#
1710411, CAS# 68411-30-3, 7664-93-9. Store @ 4°C.
Expires 10/2008.

KR
2/14/08

(D) TSS Reference

0.2153g Kaolin (WC692356) brought to 1000g w/DI.
Store at 4°C in a plastic bottle.
TV=215mg/L exp: 02/14/2009

2/14/08
NM

(E) Sodium Phenolate - NH₃

-same as WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN

-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

- To a tared 1 liter amber glass jar add:
- 75.0g Sodium Salicylate (WC85097B)
 - 0.50g Sodium Nitroprusside (WC85102D)
 - 454g DI

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH₃

-same as WC85105 C. Exp. 1 year, 2/14/09.

(J) Buffer - NH₃

-same as WC85094 B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN I

TC To a 2
- 268g
- 14.6g
to ~500
Slowly
Dissolve
to vol.

2/14/08
RP

(B) Rec'd 1

(1) x 100 p
CAS # 65
Rec'd
exp. 1

KR
02/14/08

(C) TSS Ref

0.3003
with T

2/15/08 (D) Post-T

NM TO a
(WC85111
Pour off 10
mix there

(E) Hypochl

15.0 mLs
Prepare 1

2/19/08 (F) NH₃ (

NM -same as

(G) Hypochl

-same a

Analyte: Surfactants (MBAs)
 Method: EPA 425.1 / SM20 5540C

Analyst: DCB
 Pipette: _____

Date: 7/1/08
 Time: 8:45

Calibration:

Std	Conc.	Absorb.	Result	% Rec
1	0.00	0.000	0.00311	
2	0.02	0.021	0.02407	120.3%
3	0.04	0.038	0.04103	102.6%
4	0.06	0.056	0.05900	98.3%
5	0.08	0.076	0.07896	98.7%
6	0.10	0.092	0.09492	94.9%
7	0.15	0.140	0.14282	95.2%
8	0.20	0.195	0.19771	98.9%
9	0.25	0.251	0.25359	101.4%
10	0.30	0.305	0.30748	102.5%
11	0.40	0.395	0.39730	99.3%

Curve Date: 6/16/08
 C.C = 0.999428
 y-int. = -0.003118
 Slope: 1.002064

	Submission #	Order #	Sample Vol. (mLs)	Absorbance @ 652 nm	MBAs mg/L	Dilution	Final Result mg/L
29	R-44650	1112811	500.000	0.100	0.1029	4.0	0.4116
30		1112871	500.000	0.080	0.0829	5.0	0.4147
31		CCV	500.000	0.300	0.3025	1.0	0.3025
32		CCB/PB	500.000	0.000	0.0031	1.0	0.0031
33							
34							
35							
36							
37							
38							
39							
40							
41							
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54							
55							
56							

OK 7/2/08

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

Columbia Analytical Services
 1 Mustard Street, Rochester, NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: DCB

Date: 7/1/08

Analysis: MBAS (Surfactants)

Instrument: Milton Roy Spec 21

Quality Control:

Curve Date: 06/16/08

	Same as Log Book #	Same as Log Book Date	Stocks Prep. Log#, Date	Stock Sol (mls)	Stock Sol (mg/L)	Final Vol (mls)	True Value (mg/L)
a) Standards Prep:	WC85166A	6/20/08	WC85110C, 2/13/08				
b) I/CCV Prep:	WC85166B	6/20/08	WC85046E, 10/1/07	150	1	500	0.3
c) LCS-LL Prep:	WC85166C	6/20/08	WC85110C, 2/13/08	10	1	500	0.02
c) LCS-HL Prep:	WC85166D	6/20/08	WC85110C, 2/13/08	200	1	500	0.4

Instrument log filled in? (Y) (N)

Packages:

Copy and attach Standards Preparation.

Comments:

R-44666 soils diluted 50ml → 500mls at extraction
 1112811 diluted 125mls → 500mls at extraction
 1112871 diluted 100mls → 500mls at extraction
 1113696 diluted 1/5 at spec

matrix spike is 100ml of 1ppm LAS Reference Std giving a SRK of 0.2

Surfactants - Curve analyzed on 6/16/08

CMW
6/20/08

(A) Standards

#	mLs 1ppm Std	mLs DI	Conc. (ppm)
1	0	500	0.00
2	10	490	0.02
3	20	480	0.04
4	30	470	0.06
5	40	460	0.08
6	50	450	0.10
7	75	425	0.15
8	100	400	0.20
9	150 ¹²⁵	375	0.25
10	150	350	0.30
11	200	300	0.40

(B) I/CCV

- Add 150mLs of 1ppm LAS reference to sep. funnel + add 350mLs DI. Analyze. Prepare fresh each run. True Value = 3.0 ppm.

(C) LCS - Low Level

- Add 10mLs of 1ppm LAS Standard to sep. funnel + add 490mLs DI. Analyze. Prepare fresh each run. True Value = 0.02 ppm.

(D) LCS - high level

- Add 200mLs of 1ppm LAS Standard to sep. funnel + add 300mLs DI. Analyze. Prepare fresh each run. True Value = 0.40 ppm.

For this cal., the following solutions were used:
 1ppm standard: WC85160A
 1ppm Reference: WC85160B

- 9/28/07
TC
- (A) LCS/MS for AUS
To 10.0 g Ottawa Sand or Sample add
- 1 mLs sulfide ^{working std (WC85045D)}
- 2 mLs sulfide ^{working std (WC85045D)}
 - (B) CCV for AUS
use the 4 mL cal. std. from WC85045D.
 - (C) COB for AUS
use the 0.00 Cal. Std. from WC85045D.

10/11/07
GN

(D) TKN Digest Reagent
- same as WC85040F. Exp. 1 month 11/1/07

10/1/07

(E) Received from VWR
(1) x 120 mL Linear Alkylbenzene Sulfonate (LAS)
Cat. no. 4350-4 RICCA Lot # 2709220
CAS no 7664-93-9 Store @ 4°C exp 9/08

10/1/07
RP

(F) TSS Reference
0.2270g Kestin (WC69285G) brought to
1000g w/ DI. Stored @ 4°C in plastic bottle.
TN = 227 mg/L exp 10/1/08

- 10/1/07
DB
- Received from VWR.
- (G) (2) x 125g Acetic Acid, Cat # 0938-05, JT Baker
Lot # E22615, CAS # 50-81-7. Store w RT.
Expires 10/1/10
 - (H) (1) x 125g Potassium Iodide, Cat # PX1505-3,
EMD Lot # 46285714, CAS # 7681-11-0. Store @ RT.
Expires 10/1/10.
 - (I) (1) x 500 mL Phenol Liquefied, Cat # PX0511-1,
EMD Lot # 46318, CAS # 108-95-2. Store in
flammable cabinet. Expires 10/1/10
 - (J) (1) x 500 mL Calcium Standard, 1 mL = 1 mg CaCO₃.
Cat # VW3395-2, VWR Lot # 7064. Store @ 4°C.
Expires 3/31/08
 - (K) (1) x 500g Sodium Acetate Trihydrate, Cat # 7610,
EMD Lot # 1106B043, CAS # 6131-90-4. Store @ R.T.
Expires 10/1/10

10/1/07
AB

Received
(A) (1)
BDH
fla

Received
(B) (1) x
Fisher
Expu

Received
(C) (3) x
Cat #
Same
Expu

10/2/07
NM

(D) Post-
To a
(WCSSC
thorough
to volor
amber g

(E) Hypoc
- same

(F) 0.8 M
- same

10/2/07
AB

(H) Alkalinity 6
100 ml c
with DI

10/2/07
AB

(I) FAS Tit
Same a

(J) 0.005M
same a

2/13/08
BBReceived from VWR(A) (1) x 4L Sulfuric acid, 0.02000N, Cat# VW3299-4
VWR Lot# 7312, CAS# 7664-93-9. Store @ R.T.

Expires 11/30/08

(B) (1) x 1 L Silica Standard, 10 mg/L, Cat# VW3618-1,
VWR Lot# 7338, CAS# 6834-92-0. Store @ R.T.

Expires 8/5/08

(C) (1) x 120mL Linear Alkylbenzene Sulfonate (LAS)
Standard, 1000 mg/L. Cat# 4350-4, RICOA Lot#
1710411, CAS# 68411-30-3, 7664-93-9. Store @ 4°C.

Expires 10/2008.

KR
2/14/08(D) TSS Reference0.2153g Naolin (WC69285G) brought to 1000g w/ DI.
Store at 4°C in a plastic bottle.

TV = 215 mg/L exp: 02/14/2009

2/14/08
NM(E) Sodium Phenolate - NH₃

-same as WC85088F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

-same as WC85090I. Exp. 3/14/08.

(G) Buffer - TKN

-same as WC85088E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

To a tared 1 liter amber glass jar add:

- 75.0g Sodium Salicylate (WC85079B)

- 0.50g Sodium Nitroprusside (WC85102D)

- 454g UPDI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH₃

-same as WC85105C. Exp. 1 year, 2/14/09.

(J) Buffer - NH₃

-same as WC85074B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN 1TC ~~to 207~~

TO a 2

- 268g

- 14.6g

to ~500

Slowly

Dissolve

to vol.

2/14/08
RP(B) Rec'd 1

(1) x 100 pc

CAS # 65

Rec'd

exp. 1

KR
02/14/08(C) TSS Ref

0.3003

with T

2/15/08

(D) Post-T

NM

TO a

(WC85111)

Pour off 10

mix there

(E) Hypochl

15.0 mLs

Prepare 4

2/19/08

(F) NH₃ C

NM

-same as

(G) Hypochl

-same a

Run #: 162943

Analyte: ALK SM2320B ALKALINITY, TOTAL

Printed: 06/26/08 11:29

				REPORTED					DATE		
<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>RESULT</u>	<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
CHK1	-	1112414	WATER	50.0	1.0	2.00	100.0		06/25/2008		
BLK1	-	1112415	WATER	1.30	1.0	2.00			06/25/2008		
SPKB	-	1112416	WATER	20.2	1.0	2.00	101.0		06/25/2008		
ESMP	R2844538	-	1109708	WATER	1.0	2.00			06/25/2008		ASPB
ESMP	R2844538	-	1110532	WATER	1.0	2.00			06/25/2008		ASPB
ESMP	R2844538	-	1110981	WATER	2.00	U	1.0	2.00	06/25/2008	RUN	ASPB
ESMP	R2844538	-	1111264	WATER	94.7	1.0	2.00		06/25/2008	RUN	ASPB
LDUP	-	1112417	WATER	90.3	1.0	2.00		4.76	06/25/2008		
SPK1	-	1112418	WATER	126	1.0	2.00	93.9		06/25/2008		
ESMP	R2844538	-	1111265	WATER	79.3	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	-	1111266	WATER	93.3	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	-	1111267	WATER	90.3	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	-	1111763	WATER	80.7	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	-	1111764	WATER	82.0	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	-	1111765	WATER	164	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844650	-	1112065	WATER	79.3	1.0	2.00		06/25/2008	RUN	ASPB
LDUP	-	1112419	WATER	80.3	1.0	2.00		1.25	06/25/2008		
SPK1	-	1112420	WATER	113	1.0	2.00	100.2		06/25/2008		
ESMP	R2844650	-	1112066	WATER	90.3	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844650	-	1112067	WATER	0.800	1.0	2.00		06/25/2008	RUN	ASPB

Records printed: 20

Run #: 162941

Analyte: BICARB

SM2320B ALKALINITY, BICARBONATE

Printed: 06/26/08 11:25

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1112404	WATER	50.0	1.0	2.00	100.0		06/25/2008		
BLK1		1112405	WATER	1.30	1.0	2.00			06/25/2008		
SPKB		1112406	WATER	20.2	1.0	2.00	101.0		06/25/2008		
ESMP	R2844538	1109708	WATER	2.90	1.0	2.00			06/25/2008		ASPB
ESMP	R2844538	1110532	WATER	250	1.0	2.00			06/25/2008		ASPB
ESMP	R2844538	1110981	WATER	2.00	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111264	WATER	94.7	1.0	2.00			06/25/2008	RUN	ASPB
LDUP		1112407	WATER	90.3	1.0	2.00		4.76	06/25/2008		
ESMP	R2844538	1111265	WATER	79.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER	93.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER	90.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111763	WATER	80.7	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111764	WATER	82.0	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER	164	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844650	1112065	WATER	79.3	1.0	2.00			06/25/2008	RUN	ASPB
LDUP		1112408	WATER	80.3	1.0	2.00		1.25	06/25/2008		
ESMP	R2844650	1112066	WATER	90.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.800	1.0	2.00			06/25/2008	RUN	ASPB

Records printed: 18

Run #: 162942

Analyte: CARBONATE SM2320B ALKALINITY, CARBONATE

Printed: 06/26/08 11:30

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>	<u>RESULT</u>	<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE</u>	<u>QC</u>	<u>PKG #</u>
CHK1		1112409	WATER		50.0	1.0	2.00	100.0		06/25/2008		
BLK1		1112410	WATER		1.30	1.0	2.00			06/25/2008		
SPKE		1112411	WATER		20.2	1.0	2.00	101.0		06/25/2008		
ESMP	R2844538	1109708	WATER		2.00	U	1.0	2.00		06/25/2008		ASPB
ESMP	R2844538	1110532	WATER		2.00	U	1.0	2.00		06/25/2008		ASPB
ESMP	R2844538	1110981	WATER		2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111264	WATER		2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
LDUP		1112412	WATER		2.00	U	1.0	2.00		06/25/2008		
ESMP	R2844538	1111265	WATER		2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER		2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER		2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111763	WATER		2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111764	WATER		2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER		2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844650	1112065	WATER		2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
LDUP		1112413	WATER		2.00	U	1.0	2.00		06/25/2008		
ESMP	R2844650	1112066	WATER		2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER		2.00	U	1.0	2.00		06/25/2008	RUN	ASPB

Records printed: 18

Analyte: Alkalinity Regular Level X
 Method: 310.1 / SM20 2320 B High Level

Analyst: H. Lovejoy
 Pipette: HANS

Date: 6/25/08
 Time: 16:00

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity

T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3 /L = (A_(mL acid used) × N_(H2SO4) × 50,000) / mL samp * Soils - 1g of sample diluted to 100mLs in DI

pH meter cal:
 4.0
 7.0 7.04
 10.0

Buffer Lot #:
 BDB2674H
 BDB2680E
 BDB2680F

Reagents: Concentration Log # Date
 H2SO4: 0.020 N WC85110A 11/30/08
 Reg Level Reference: 50 mg/L WC85169I
 High Level Reference: 5000 mg/L
 LCS/MS Solution: 1000 mg/L WC85143D

Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH-Alk.	Carb Alk.	Bicarb Alk.	Total Alk.	Vol. Spk 1000ppm (mL)	*Soil (X)
1	TV=50	ICV	25.0	9.30	0.00	1.29					51.6		
2		ICB	100.0	5.60	0.00	0.14					1.4		
3	TV=20	LCS	100.0	9.80	0.00	2.02					20.2	2.0	
4	R-42262	R1076274	10.0	6.80	0.00	2.23					223.0		
5	DUP	R1076274	10.0	6.80	0.00	2.22					222.0		
6	SPK TV=100	R1076274	10.0	7.30	0.00	3.18					318.0	1.0	
7		R1076280	10.0	7.60	0.00	3.01					301.0		
8		R1076282	10.0	7.60	0.00	2.78					278.0		
9	R-44321	R1106792	10.0	7.70	0.00	5.28					528.0		
10		R1106829	10.0	7.70	0.00	5.24					524.0		
11	R-44175	R1105198	10.0	7.30	0.00	5.90					590.0		
12		R1105199	10.0	7.50	0.00	4.19					419.0		
13		R1105200	10.0	7.90	0.00	3.31					331.0		
14		R1105201	5.0	7.20	0.00	3.29					658.0		
15	R-44557	R1109952	25.0	8.50	0.00	3.38					135.2		
16	TV=50	CCV	25.0	9.20	0.00	1.28					51.2		
16		CCB	100.0	5.60	0.00	0.13					1.3		
17		R1109953	25.0	8.40	0.00	2.98					119.2		
18		R1109954	50.0	8.00	0.00	2.59					51.8		
19		R1109955	25.0	8.00	0.00	5.41					216.4		
20	DUP	R1109955	25.0	8.00	0.00	5.30					212.0		
21	SPK TV=80	R1109955	25.0	9.10	0.00	7.38					295.2	2.0	
22		R1110018	100.0	7.00	0.00	LL					0.0		
23		R1110019	100.0	7.10	0.00	LL					0.0		
24		R1110020	35.0	7.90	0.00	2.63					75.1		
25		R1110021	100.0	6.80	0.00	LL					0.0		
26	R-44173	R1105193	10.0	7.90	0.00	5.32					532.0		
27		R1100805	15.0	7.80	0.00	2.51					167.3		
28	TV=50	CCV	25.0	9.30	0.00	1.25					50.0		
29		CCB	100.0	5.70	0.00	0.13					1.3		
30	TV=20	LCS	100.0	9.80	0.00	2.02					20.2	2.0	
31	R-44538	R1109708	100.0	5.70	0.00	0.29	0.00	0.0	0.0	2.9	2.9		
32		R1110532	10.0	7.80	0.00	2.50	0.00	0.0	0.0	250.0	250.0		
33		R1110981	100.0	3.60	0.00	0.00	0.0	0.0	0.0	0.0	0.0		
34		R1111264	30.0	7.50	0.00	2.84	0.00	0.0	0.0	94.7	94.7		
35	DUP	R1111264	30.0	7.50	0.00	2.71	0.00	0.0	0.0	90.3	90.3		
36	SPK TV=33.33	R1111264	30.0	8.20	0.00	3.78	0.00	0.0	0.0	126.0	126.0	1.0	
37		R1111265	30.0	7.60	0.00	2.38	0.00	0.0	0.0	79.3	79.3		

Analyte: Alkalinity Regular Level X
 Method: 310.1 / SM20 2320 B High Level _____

Analyst: H. Lovejoy
 Pipette: HANS

Date: 6/25/08
 Time: 16:00

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity

T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3 /L = (A_(mL acid used) × N_(H2SO4) × 50,000) / mL sampl + Soils - 1g of sample diluted to 100mLs in DI

pH meter cal:

4.0 _____
 7.0 7.04
 10.0 _____

Buffer Lot #:

BDB2674H
 BDB2680E
 BDB2680F

Reagents: Concentration

H2SO4: 0.020 N

Log #

WC85110A

Date

11/30/08

Reg Level Reference: 50 mg/L

WC85169I

High Level Reference: 5000 mg/L

LCS/MS Solution: 1000 mg/L

WC85143D

Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH- Alk.	Carb Alk.	Bicarb Alk.	Total Alk.	Vol. Spk 1000ppm (mL)	*Soil (X)
38	R1111266	30.0	7.60	0.00	2.80	0.00	0.0	0.0	0.0	93.3	93.3		
39	R1111267	30.0	7.60	0.00	2.71	0.00	0.0	0.0	0.0	90.3	90.3		
40	R1111763	30.0	7.60	0.00	2.42	0.00	0.0	0.0	0.0	80.7	80.7		
41	R1111764	30.0	7.50	0.00	2.46	0.00	0.0	0.0	0.0	82.0	82.0		
42	R1111765	30.0	7.60	0.00	4.92	0.00	0.0	0.0	0.0	164.0	164.0		
43	TV=50	CCV	25.0	9.40	0.00	1.29					51.6		
44		CCB	100.0	5.80	0.00	0.14					1.4		
45	R-44650	R1112065	30.0	7.60	0.00	2.38	0.0	0.0	0.0	79.3	79.3		
46	DUP	R1112065	30.0	7.60	0.00	2.41	0.0	0.0	0.0	80.3	80.3		
47	SPK TV=33.33	R1112065	30.0	8.40	0.00	3.38	0.0	0.0	0.0	112.7	112.7		
48		R1112066	30.0	7.70	0.00	2.71	0.0	0.0	0.0	90.3	90.3		
49		R1112067	100.0	6.10	0.00	0.38	0.0	0.0	0.0	3.8	3.8		low level
50	TV=50	CCV	25.0	9.30	0.00	1.23					49.2		
51		CCB	100.0	5.90	0.00	0.16					1.6		

Analyte: Alkalinity Low Level
 Method: 310.1 / SM20 2320 B

Analyst: H. Lovejoy
 Pipette: FRANZ

Date: 6/25/08
 Time: 16:00

pH meter cal: 4.0 Buffer Lot #: BDB2674H
7.0 7.04 BDB2680E
10.0 BDB2680F

Reagent: H2SO4 Concentration 0.02 N Log # WC85110A Date 11/30/08

Alkalinity, mg CaCO₃ /L = $\frac{(2B-C) \times N \times 50,000}{\text{mL sample}}$

where:
 B = mL standard acid used
 C = total ml titrant to reach 0.3 pH units lower

Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol.@pH 4.5		Vol.@pH -0.3		Total Alkalinity (mg/L)	
					Vol.(B)	pH	Vol.(C)	pH		
1	R-44557	R1110018	100.0	7.00	0.00	0.91	4.48	1.14	4.19	6.80
2		R1110019	100.0	7.10	0.00	1.07	4.48	1.31	4.19	8.30
3		R1110021	100.0	6.80	0.00	0.68	4.47	0.92	4.16	4.40
4	R-44538	R1109708	100.0	5.70	0.00	0.29	4.48	0.54	4.2	0.40
5	R-44650	R1112067	100.0	6.10	0.00	0.39	4.48	0.7	4.18	0.80

2/13/08
BB

Received from VWR

- (A) (1) x 4L Sulfuric acid, 0.02000N, Cat# VW3299-4, VWR Lot# 7312, CAS# 7664-93-9. Store @ R.T. Expires 11/30/08
- (B) (1) x 1 L Silica Standard, 10 mg/L, Cat# VW3618-1, VWR Lot# 7338, CAS# 6834-92-0. Store @ R.T. Expires 8/5/08
- (C) (1) x 120mL Linear Alkylbenzene Sulfonate (LAS) Standard, 1000 mg/L. Cat# 4350-4, RICA Lot# 1710411, CAS#s 68411-30-3, 7664-93-9. Store @ 4°C. Expires 10/2008.

KR
2/14/08

TSS Reference

0.2153g Naolin (WC692856) brought to 1000g w/ DI. Store at 4°C in a plastic bottle. TV=215mg/L exp: 02/14/2009

2/14/08
NM

(E) Sodium Phenolate - NH3
-same as WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN
-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN
-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN
To a tared 1 liter amber glass jar add:
- 75.0g Sodium Salicylate (WC85099 B)
- 0.50g Sodium Nitroprusside (WC85102 D)
- 454g H₂O
Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH3
-same as WC85105 C. Exp. 1 year, 2/14/09.

(J) Buffer - NH3
-same as WC85094 B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN 1
TC

To a 2
- 268g
- 14.6g
to ~50l
Slowly
Dissolve
to vol.

2/14/08 (B) Rec'd.
RP (1) x 100 p
CAS # 68
Rec'd
exp.

KR 02/14/08 (C) TSS Ref
0.3003
with

2/15/08 (D) Post-
NM TO a
(WC85111
Pour off 10
Mix then

(E) Hypoch
15.0 mL
Prepare

2/19/08 (F) NH3
NM - same a

(G) Hypoch
- same a

4/24/08
 (A) TSS Reference
 0.2118g kaolin (WC85092856) brought to 1000g w.
 DI Stone @ 4°C in a plastic bottle.
 TV = 212 mg/L exp: 4/24/09

4/24/08 (B) Buffer - TKN
 NM - same as WC85088E. Exp. 1 month, 5/24/08

↓
 (C) Sodium Phenolate - NH3
 - same as WC85131D. Exp. 1 year, 4/24/09.

4/28/08 (D) Alkalinity LPS/MS Soln. 1000 mg/L
 BB
 Limestone 1.0589g Na₂CO₃ (WC76232D), previously
 dried @ 104°C for 2 hours, in ~800 mL DI. Bring
 to 1 L volumetrically w/DI. Store in plastic
 @ 4°C. Expires 10/28/08.

4/28/08 (E) Received from CPT
 BB
 (3) x 100 COD Digestion Solution Vials, 0-150 ppm.
 Cert # 4380-150-300, CPT Lot # 71127A, CASes
 10294-26-5, 7783-35-9, 7664-93-9,
 Store in a cool, dark place. Expires 11/2011

Received from VWR
 (F) (10) x 8 mL Aqua Star Water Std, 0.1% Cat #
 1.88051.0010, EMD Lot # HC 784277, DAS # 107-98-2.
 Store in flammable cabinet. Expires 11/30/2012.

4/28/08 (G) TKN Digest Reagent (3753)
 TC
 To a 2 liter vol. of flask add ~500 mL w/DI and
 - 268g K₂SO₄ (WC85109H)
 - 14.6g CuSO₄ (WC85040A)
 Slowly add 268g conc. ammonia H₂SO₄ (WC85132D)
 Dissolve. Allow to cool, then bring to vol. w/ w/DI
 Exp 1 month, 5/28/08.

4/27/08 (H) Hypochlorite - TKN
 N.N
 - same as WC85111E. Prepare fresh each run.

200mls
 (equals 400mLs)

6/24/08 (A) Ascorbic Acid - TPC4
 Nm - same as WC85164I. Exp. 1wk, 7/1/08

6/24/08 (B) TSS Reference
 EW 0.2121g Kaolin (WC69285G) brought to 1000g w/DI.
 Store in Plastic Bottle @ 4°C
 TV = 212 mg/L Exp: 6/24/09 (4409)

6/24/08 Received from VWR
 AB (C) (1) x 125g Potassium Hydrogen Phthalate,
 Cat # PX1476-3, EMD Lot # 47183801, CAS #
 877-24-7. Store @ R.T. Expires 6/24/13.

6/25/08 (D) Received from Honeywell
 Cmw (D) (4) x 4L Chloroform, CAT# 048-4, Honeywell
 Lot # CW014. CAS# 67-66-3. Store @ RT.
 Expires 5 years from receipt, 6/25/2013.
 (E) (4) x 4L Chloroform, CAT# 048-4, Honeywell
 Lot # CW310. CAS# 67-66-3. Store @ RT.
 Expires 5 years from receipt, 6/25/2013.

6/25/08 (F) Buffer - TOTN
 Nm - same as WC85146A. Exp. 1 year, 6/25/09.

↓ (G) Color Reagent - TOTN
 - same as WC85123A. Exp. 1 month, 7/25/08.

6/25/08 Received from VWR
 AB (H) (2) x 100g Ammonium Persulfate, ultrapure,
 Cat # 4036-04, JT Baker Lot # G22476, CAS
 # 7727-54-0. Store @ 4°C. Expires 5/31/2010

6/25/08 (I) Alkalinity Reference Sol'n 50mg/L
 Cmw 10.0 ml 5000 mg/L Alk Ref. Stock (WC85157H) to 1 L vol. with DI.
 Store in plastic at 4°C exp ~~to~~ months 12/2/08

R446666
R44650
2/6/08

07/15

Run #: 163336
Analyte: ALK SM2320B ALKALINITY, TOTAL
Printed: 07/02/08 11:29

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114359	SOIL/SEDIME	52.8	1.0	200	105.6		06/27/2008		
BLK1		1114361	SOIL/SEDIME	200	1.0	200			06/27/2008		
BLK5		1114363	SOIL/SEDIME	10.0	1.0	200			06/27/2008		
SPKB		1114362	SOIL/SEDIME	19.5	1.0	200	97.5		06/27/2008		
ESMP	R2844666	1112361	SOIL/SEDIME	456	1.0	200			06/27/2008		ASPB
ESMP	R2844666	1112362	SOIL/SEDIME	403	1.0	200			06/27/2008	QC	ASPB
LDUP		1114364	SOIL/SEDIME	381	1.0	200		5.61	06/27/2008		
SPK1		1114365	SOIL/SEDIME	433	1.0	200	22.6		06/27/2008		
ESMP	R2844666	1112363	SOIL/SEDIME	38.0	1.0	200			06/27/2008		ASPB
ESMP	R2844666	1112364	SOIL/SEDIME	140	1.0	200			06/27/2008		ASPB
ESMP	R2844666	1112365	SOIL/SEDIME	293	1.0	200			06/27/2008		ASPB
ESMP	R2844650	1112486	WATER	301	1.0	2.00			06/27/2008	RUN	ASPB
ESMP	R2844650	1112487	WATER	236	1.0	2.00			06/27/2008	RUN	ASPB
ESMP	R2844650	1112488	WATER	134	1.0	2.00			06/27/2008	RUN	ASPB
ESMP	R2844650	1112489	WATER	270	1.0	2.00			06/27/2008	RUN	ASPB

Records printed: 15

Reviewed & Approved
By: OK
Date: 7/2/08

Run #: 163337

Analyte: BICARB SM2320B ALKALINITY, BICARBONATE

Printed: 07/02/08 11:20

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114331	SOIL/SEDIME	52.8	1.0	200	105.6		06/27/2008		
BLK1		1114332	SOIL/SEDIME	200	1.0	200			06/27/2008		
BLK5		1114334	SOIL/SEDIME	10.0	1.0	200			06/27/2008		
SPKB		1114333	SOIL/SEDIME	19.5	1.0	200	97.5		06/27/2008		
ESMP	R2844666	1112361	SOIL/SEDIME	222 <i>220</i>	1.0	200			06/27/2008		ASPB
ESMP	R2844666	1112362	SOIL/SEDIME	269	1.0	200			06/27/2008	QC	ASPB
LDUP		1114335	SOIL/SEDIME	248	1.0	200		8.12	06/27/2008		
ESMP	R2844666	1112363	SOIL/SEDIME	200	1.0	200			06/27/2008		ASPB
ESMP	R2844666	1112364	SOIL/SEDIME	200	1.0	200			06/27/2008		ASPB
ESMP	R2844666	1112365	SOIL/SEDIME	235	1.0	200			06/27/2008		ASPB
ESMP	R2844650	1112486	WATER	301	1.0	2.00			06/27/2008	RUN	ASPB
ESMP	R2844650	1112487	WATER	236	1.0	2.00			06/27/2008	RUN	ASPB
ESMP	R2844650	1112488	WATER	134	1.0	2.00			06/27/2008	RUN	ASPB
ESMP	R2844650	1112489	WATER	270	1.0	2.00			06/27/2008	RUN	ASPB

Records printed: 14

Run #: 163338

Analyte: CARBONATE SM2320B ALKALINITY, CARBONATE

Printed: 07/02/08 11:23

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114337	SOIL/SEDIME	52.8	1.0	200	105.6		06/27/2008		
BLK1		1114338	SOIL/SEDIME	200	1.0	200			06/27/2008		
BLK5		1114340	SOIL/SEDIME	200	1.0	200			06/27/2008		
SPKB		1114339	SOIL/SEDIME	19.5	1.0	200	97.5		06/27/2008		
ESMP	R2844666	1112361	SOIL/SEDIME	236	1.0	200			06/27/2008		ASPB
ESMP	R2844666	1112362	SOIL/SEDIME	133	1.0	200			06/27/2008	QC	ASPB
LDUP		1114341	SOIL/SEDIME	133	1.0	200			06/27/2008		
ESMP	R2844666	1112363	SOIL/SEDIME	200	1.0	200			06/27/2008		ASPB
ESMP	R2844666	1112364	SOIL/SEDIME	200	1.0	200			06/27/2008		ASPB
ESMP	R2844666	1112365	SOIL/SEDIME	58.0	1.0	200			06/27/2008		ASPB
ESMP	R2844650	1112486	WATER	2.00	1.0	2.00			06/27/2008	RUN	ASPB
ESMP	R2844650	1112487	WATER	2.00	1.0	2.00			06/27/2008	RUN	ASPB
ESMP	R2844650	1112488	WATER	2.00	1.0	2.00			06/27/2008	RUN	ASPB
ESMP	R2844650	1112489	WATER	2.00	1.0	2.00			06/27/2008	RUN	ASPB

not needed at this

Records printed: 14

Analyte: Alkalinity Regular Level X
 Method: 310.1 / SM20 2320 B High Level _____

Analyst: RP
 Pipette: HANS

Date: 6/27/08
 Time: 15:00

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO ₃	Carbonate Alkalinity as CaCO ₃	Bicarbonate Concentration as CaCO ₃
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO₃ /L = (A_(mL acid used) × N_(H₂SO₄) × 50,000) / mL samr * Soils - 1g of sample diluted to 100mLs in DI

pH meter cal:
 4.0 4
 7.0 6.99
 10.0 10

Buffer Lot #:
BDB2674H
BDB2680E
BDB2680F

Reagents: Concentration Log # Date
 H₂SO₄: 0.020 N WC85110A 2/13/08
 Reg Level Reference: 50 mg/L WC85169I
 High Level Reference: 5000 mg/L WC85157H
 LCS/MS Solution: 1000 mg/L WC85143D

Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH-Alk.	Carb Alk.	Bicarb Alk.	Total Alk.	Vol. Spk 1000ppm (mL)	*Soil (X)
1	TV=50	ICV	25.0	9.47	0.00	1.32					52.8		
2		ICB	100.0	5.15	0.00	0.08					0.8		
3	TV=20	LCS	100.0	9.72	0.00	1.95					19.5	2.0	
4		MB	100.0	4.94	0.00	0.10	0.0	0.0	0.0	1.0	1.0		X
5	R44666	R1112361	50.0	9.35	0.00	2.28	0.59	11.8	0.0	23.6	22.0	45.6	X
6		R1112362	75.0	9.20	0.00	3.02	0.50	6.7	0.0	13.3	26.9	40.3	X
7	DUP	R1112362	75.0	9.20	0.00	2.86	0.50	6.7	0.0	13.3	24.8	38.1	X
8	SPK TV=13.33	R1112362	75.0	9.57	0.00	3.25	0.83	11.1	0.0	22.1	21.2	43.3	1.0 X
9		R1112363	100.0	6.90	0.00	LL	0.00	0.0	0.0	0.0	0.0	0.0	X
10		R1112364	100.0	8.14	0.00	LL	0.00	0.0	0.0	0.0	0.0	0.0	X
11		R1112365	100.0	8.51	0.00	2.93	0.29	2.9	0.0	5.8	23.5	29.3	X
12	R44650	R1112486	25.0	7.62	0.00	7.52	0.00	0.0	0.0	0.0	300.8	300.8	
13		R1112487	25.0	7.35	0.00	5.89	0.00	0.0	0.0	0.0	235.6	235.6	
14		R1112488	25.0	7.51	0.00	3.35	0.00	0.0	0.0	0.0	134.0	134.0	
15		R1112489	25.0	7.52	0.00	6.74	0.00	0.0	0.0	0.0	269.6	269.6	
16	TV=50	CCV	25.0	9.74	0.00	1.35					54.0		
16		CCB	100.0	5.77	0.00	0.14					1.4		
17	TV=20	LCS	100.0	9.76	0.00	2.09					20.9	2.0	
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
32													
33													
34													
35													
36													
37													

x 550 = 10
 25.0
 = 49
 = 40
 = 38
 = 43
 = 0
 = 0
 = 29

RP
 6/13/08

Analyte: Alkalinity Low Level
 Method: 310.1 / SM20 2320 B

Analyst: RP Date: 6/27/08
 Pipette: HANS Time: 15:00

pH meter cal:			Buffer Lot #:	Reagent:				
	4.0	4	BDB2674H		Concentration	Log #	Date	
	7.0	6.99	BDB2680E	H2SO4:	0.02 N	WC85110A	2/13/08	
	10.0	10	BDB2680F					

Alkalinity, mg CaCO3 /L = $\frac{(2B-C) \times N \times 50,000}{\text{mL sample}}$

where:
 B = mL standard acid used
 C = total ml titrant to reach 0.3 pH units lower

	Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol.@pH 4.5		Vol.@pH -0.3		Total Alkalinity (mg/L)
						Vol.(B)	pH	Vol.(C)	pH	
1	R44666	R1112363	100.0	6.90	0.00	0.69	4.5	1	4.18	3.80
2		R1112364	100.0	8.14	0.00	1.56	4.46	1.72	4.18	14.00
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
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26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										

38.0
 25 = 38.0
 ↓ = 140.0

RP
 6/30/08

2/13/08
BB

Received from VWR

- (A) (1) x 4L Sulfuric acid, 0.02000N, Cat# VW3299-4, VWR Lot# 7312, CAS# 7664-93-9. Store @ R.T. Expires 11/30/08
- (B) (1) x 1 L Silica Standard, 10 mg/L, Cat# VW3618-1, VWR Lot# 7338, CAS# 6834-92-0. Store @ R.T. Expires 8/5/08
- (C) (1) x 120mL Linear Alkylbenzene Sulfonate (LAS) Standard, 1000 mg/L. Cat# 4350-4, RICA Lot# 1710411, CAS#s 68411-30-3, 7664-93-9. Store @ 4°C. Expires 10/2008.

KR
2/14/08

(D) TSS Reference

0.2153g Naolin (WC69235G) brought to 1000g w/ DI. Store at 4°C in a plastic bottle. TV=215mg/L exp: 02/14/2009

2/14/08
NM

(E) Sodium Phenolate - NH3

-same as WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN

-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

- To a tared 1 liter amber glass jar add:
- 75.0g Sodium Salicylate (WC85099B)
 - 0.50g Sodium Nitroprusside (WC85102D)
 - 454g DI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH3

-same as WC85105 C. Exp. 1 year, 2/14/09.

(J) Buffer - NH3

-same as WC85094 B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN 1

TC ~~to ~7~~
TO a 2
- 268g
- 14.6g
to ~50l
Slowly
Dissolve
to vol.

2/14/08
RP

(B) Rec'd.

(1) x 100 p
CAS # 68
Rec'd
exp.

KR
02/14/08

(C) TSS Ref

0.300g
with:

2/15/08
NM

(D) Post-

TO a
(WC85111
Pour off 10
mix thion

(E) Hypoch

15.0 mL
Prepare

2/19/08
NM

(F) NH3

-same as:

(G) Hypochl

-same as

LEE
4/24/08

(A) TSS Reference

0.2118g kaolin (WC85092356) brought to 1000g.
DI store @ 4°C in a plastic bottle.
TV = 212 mg/L exp: 4/24/09

(WC720017)

4/29/08

(B) Buffer - TKN

NM

- same as WC85088E. Exp. 1 month, 5/24/08

(C) Sodium Phenolate - NH3

- same as WC85131D. Exp. 1 year, 4/24/09.

4/28/08
B/B

(D) alkalinity LCS/MS Soln, 1000 mg/L

Dissolve 1.0589g Na2CO3 (WE76232D), previously
dried @ 104°C for 2 hours, in ~800 mL DI. Bring
to 1 L volumetrically w/DI. Store in plastic
@ 4°C. Expires 10/28/08.

4/28/08
B/B

Received from CPI

(E) (3) x 100 COD Digestion Solutions Vials, 0-150 ppm,
Cat # 4380-150-300, CPI Lot # 71127A, CAS #
10294-26-5, 7783-35-9, 7664-93-9,
Store in a cool, dark place. Expires 11/2011

Received from VWR

(F) (10) x 8 mL Aqua Star Water Std, 0.1%, Cat #
1.88051.0010, EMD Lot # HC 784277, CAS # 107-98-2.
Store in flammable cabinet. Expires 11/30/2012.

200 mL
5/7/08

4/28/08
TC

(G) TKN Digest Reagent (3553)

To a 2 liter vol. flask add - 500 mL WPI and
- 268g K2SO4 (WC85109H)
- 14.6g CuSO4 (WC85040A)
Slowly add 268g conc. ammoniacal H2SO4 (WC85132D)
Dissolve. Allow to cool, then bring to vol. w/ WPI
Exp 1 month, 5/28/08.

3551390

4/27/08
N.N

(H) Hypochlorite - TKN

- same as WC85111E. Prepare fresh each run.

6/24/08 (A) Ascorbic Acid - TPO4
Nm - same as WC85164I. Exp. 1 wk, 7/1/08

20mLs

(equals 400mLs)

6/24/08 (B) TSS Reference
EW 0.2121g Kaolin (WC69285G) brought to 1000g w/DI.
Store in Plastic Bottle @ 4°C
TV = 212 mg/L Exp: 6/24/09 (4409)

6/24/08 Received from VWB
AB (C) (1) x 125g Potassium Hydrogen Phthalate,
Cat # PX1476-3, EMD Lot # 47183801, CAS #
877-24-7. Store @ R.T. Expires 6/24/13.

6/25/08 Received from Honeywell
Cmw (D) (4) x 4L Chloroform, CAT# 048-4, Honeywell
Lot # CW014. CAS# 67-66-3. Store @ RT.
Expires 5 years from receipt, 6/25/2013.
(E) (4) x 4L Chloroform, CAT# 048-4, Honeywell
Lot # CW310. CAS# 67-66-3. Store @ RT.
Expires 5 years from receipt, 6/25/2013.

6/25/08 (F) Buffer - TOTN
Nm - same as WC85146A. Exp. 1 year, 6/25/09.

↓ (G) Color Reagent - TOTN
- same as WC85123A. Exp. 1 month, 7/25/08.

6/25/08 Received from VWB
AB (H) (2) x 100g Ammonium Persulfate, ultrapure,
Cat # 4030-04, JT Baker Lot # G22476, CAS
7727-54-0. Store @ 4°C. Expires 5/31/2010

6/25/08 (I) Alkalinity Reference Sol'n 50mg/L
Cmw 10.0 ml 5000 mg/L Alk Ref. Stock (WC85157H) to 1 L vol. with DI.
Store in plastic at 4°C exp 6 months 12/2/08

Run #: 163128

Analyte: ALK SM2320B ALKALINITY, TOTAL

Printed: 07/02/08 15:40

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>	<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE</u>	<u>QC</u>	<u>PKG #</u>
				<u>RESULT</u>					<u>ANALYZED</u>		
CHK1		1114546	WATER	48.0	1.0	2.00	96.0		06/30/2008		
BLK1		1114547	WATER	0.100	1.0	2.00			06/30/2008		
SPKB		1114548	WATER	19.0	1.0	2.00	95.0		06/30/2008		
ESMP	R2844650	1112809	WATER	253	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112810	WATER	84.2	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112811	WATER	201	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112812	WATER	-0.500	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112871	WATER	114	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112872	WATER	144	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112874	WATER	96.0	1.0	2.00			06/30/2008	QC	ASPB
LDUP		1114549	WATER	96.0	1.0	2.00			06/30/2008		
SPK1		1114550	WATER	132	1.0	2.00	91.0		06/30/2008		

Records printed: 12

Run #: 163126
 Analyte: BICARB SM2320B ALKALINITY, BICARBONATE
 Printed: 07/02/08 15:36

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114536	WATER	48.0	1.0	2.00	96.0		06/30/2008		
BLK1		1114537	WATER	0.100	1.0	2.00			06/30/2008		
SPKB		1114538	WATER	19.0	1.0	2.00	95.0		06/30/2008		
ESMP	R2844650	1112809	WATER	253	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112810	WATER	84.2	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112811	WATER	201	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112812	WATER	-0.500	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112871	WATER	114	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112872	WATER	144	1.0	2.00			06/30/2008		ASPB
ESMP	R2844650	1112874	WATER	96.0	1.0	2.00			06/30/2008	QC	ASPB
LDUP		1114539	WATER	96.0	1.0	2.00			06/30/2008		
SPK1		1114540	WATER	132	1.0	2.00	91.0		06/30/2008		

*Not needed
 06/30/08*

Records printed: 12

Run #: 163127

Analyte: CARBONATE SM2320B ALKALINITY, CARBONATE

Printed: 07/02/08 15:38

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1	-	1114541	WATER	48.0	1.0	2.00	96.0		06/30/2008		
BLK1	-	1114542	WATER	0.100	1.0	2.00			06/30/2008		
SPKB	-	1114543	WATER	18.0	1.0	2.00	95.0		06/30/2008	<i>not needed</i>	<i>06/30/08</i>
ESMP	R2844650	- 1112809	WATER	2.00	U	1.0	2.00		06/30/2008		ASPB
ESMP	R2844650	- 1112810	WATER	2.00	U	1.0	2.00		06/30/2008		ASPB
ESMP	R2844650	- 1112811	WATER	2.00	U	1.0	2.00		06/30/2008		ASPB
ESMP	R2844650	- 1112812	WATER	2.00	U	1.0	2.00		06/30/2008		ASPB
ESMP	R2844650	- 1112871	WATER	2.00	U	1.0	2.00		06/30/2008		ASPB
ESMP	R2844650	- 1112872	WATER	2.00	U	1.0	2.00		06/30/2008		ASPB
ESMP	R2844650	- 1112874	WATER	2.00	U	1.0	2.00		06/30/2008	QC	ASPB
LDUP	-	1114544	WATER	2.00	U	1.0	2.00		06/30/2008		
SPK1	-	1114545	WATER	2.00	U	1.0	2.00		06/30/2008		

Records printed: 12

Analyte: Alkalinity
 Method: 310.1 / SM20 2320 B

Regular Level X
 High Level _____

Analyst: KLR
 Pipette: HANS

Date: 6/30/08
 Time: 9:00

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity

T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3 / L = (A_(mL acid used) × N_(H2SO4) × 50,000) / mL sample * Soils - 1g of sample diluted to 100mLs in DI

pH meter cal:
 4.0 4
 7.0 6.98
 10.0 10

Buffer Lot #:
 BDB2674H
 BDB2680E
 BDB2680F

Reagents: Concentration
 H2SO4: 0.020 N
 Reg Level Reference: 50 mg/L
 High Level Reference: 5000 mg/L
 LCS/MS Solution: 1000 mg/L

Log #
 WC85110A Date 2/13/08
 WC85169I
 WC85157H
 WC85143D

Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH-Alk.	Carb Alk.	Bicarb Alk.	Total Alk.	Vol. Spk 1000ppm (mL)	*Soil (X)
1	TV=50	ICV	25.0	9.38	0.00	1.20					48.0		
2		ICB	100.0	4.66	0.00	0.01					0.1		
3	TV= 20	LCS	100.0	9.73	0.00	1.90					19.0	2.0	
4	44650	R-1112809	15.0	7.38	0.00	3.79	0.00	0.0	0.0	0.0	252.7	252.7	
5		R-1112810	50.0	7.29	0.00	4.21	0.00	0.0	0.0	0.0	84.2	84.2	
6		R-1112811	25.0	7.17	0.00	5.02	0.00	0.0	0.0	0.0	200.8	200.8	
7		R-1112812	100.0	5.96	0.00	LL	0.00	0.0	0.0	0.0	0.0	0.0	
8		R-1112871	25.0	7.35	0.00	2.85	0.00	0.0	0.0	0.0	114.0	114.0	
9		R-1112872	25.0	7.61	0.00	3.60	0.00	0.0	0.0	0.0	144.0	144.0	
10		R-1112874	25.0	7.51	0.00	2.40	0.00	0.0	0.0	0.0	96.0	96.0	
11	DUP	R-1112874	25.0	7.48	0.00	2.40	0.00	0.0	0.0	0.0	96.0	96.0	
12	SPK TV= 40	R-1112874	25.0	8.26	0.00	3.31	0.00	0.0	0.0	0.0	132.4	132.4	1.0
13	44321	R-1106776	35.0	7.82	0.00	2.01					57.4		
14		R-1106777	100.0	6.55	0.00	LL					0.0		
15		R-1106778	50.0	8.45	0.00	2.00					40.0		
16	TV = 50	CCV	25.0	9.86	0.00	1.21					48.4		
16		CCB	100.0	5.40	0.00	0.02					0.2		
17	44321	R-1106780	50.0	7.35	0.00	2.01					40.2		
18		R-1106781	60.0	7.59	0.00	2.00					33.3		
19		R-1106782	100.0	6.26	0.00	LL					0.0		
20		R-1106784	35.0	7.77	0.00	2.01					57.4		
21	DUP	R-1106784	35.0	8.04	0.00	2.02					57.7		
22	SPK TV = 28.5	R-1106784	35.0	9.23	0.00	3.00					85.7	1.0	
23		R-1106787	65.0	7.45	0.00	2.00					30.8		
24		R-1106788	35.0	7.84	0.00	2.15					61.4		
25	44557	R-1110022	25.0	8.21	0.00	3.70					148.0		
26		R-1110322	25.0	8.06	0.00	2.81					112.4		
27		R-1110323	25.0	8.09	0.00	4.10					164.0		
28		R-1110324	30.0	8.01	0.00	4.61					153.7		
29	TV = 50	CCV	25.0	9.86	0.00	1.25					50.0		
30		CCB	100.0	5.21	0.00	0.03					0.3		
31	TV = 20	LCS	100.0	9.96	0.00	2.01					20.1	2.0	
32	44557	R-1110325	25.0	8.40	0.00	3.10					124.0		
33	DUP	R-1110325	25.0	8.45	0.00	3.10					124.0		
34	SPK TV = 40	R-1110325	25.0	9.21	0.00	4.05					162.0	1.0	
35	44174	R-1105195	15.0	8.17	0.00	5.20					346.7		
36		R-1105196	15.0	8.08	0.00	6.00					400.0		
37	44175	R-1105202	10.0	7.68	0.00	4.90					490.0		

Analyte: **Alkalinity** Regular Level X
 Method: **310.1 / SM20 2320 B** High Level _____

Analyst: KLR
 Pipette: HANS

Date: 6/30/08
 Time: 9:00

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3 / L = (A_(mL acid used) × N_(H2SO4) × 50,000) / mL sampl * Soils - 1g of sample diluted to 100mLs in DI

pH meter cal:

4.0	4
7.0	6.98
10.0	10

Buffer Lot #:

BDB2674H
BDB2680E
BDB2680F

Reagents: Concentration

H2SO4:	0.020 N
Reg Level Reference:	50 mg/L
High Level Reference:	5000 mg/L
LCS/MS Solution:	1000 mg/L

Log # Date

WC85110A	2/13/08
WC85169I	
WC85157H	
WC85143D	

Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH-Alk.	Carb Alk.	Bicarb Alk.	Total Alk.	Vol. Spk 1000ppm (mL)	*Soil (X)
38	R-1105203	10.0	7.20	0.00	6.40						640.0		
39	R-1105204	10.0	7.34	0.00	5.71						571.0		
40	R-1105205	5.0	7.24	0.00	4.00						800.0		
41	R-1105206	10.0	7.35	0.00	5.00						500.0		
42	R-1105207	5.0	7.55	0.00	5.71						1142.0		
43	R-1105208	5.0	7.30	0.00	2.70						540.0		
44	TV = 50	CCV	25.0	9.63	0.00	1.25					50.0		
45		CCB	100.0	5.46	0.00	0.05					0.5		
46	44175	R-1105209	5.0	7.60	0.00	3.65					730.0		
47	DUP	R-1105209	5.0	7.60	0.00	3.65					730.0		
48	SPK TV = 200	R-1105209	5.0	8.89	0.00	4.60					920.0	1.0	
49		R-1105210	10.0	7.60	0.00	3.39					339.0		
50		R-1105211	6.0	7.80	0.00	2.99					498.3		
51		R-1105212	5.0	7.20	0.00	3.70					740.0		
52		R-1105213	5.0	7.57	0.00	2.05					410.0		
53		R-1105214	5.0	10.50	0.00	2.51					502.0		
54		R-1105215	5.0	7.60	0.00	2.20					440.0		
55	44321	R-1106779	15.0	7.80	0.00	2.71					180.7		
56		CCV	25.0	9.73	0.00	1.22					48.8		
57		CCB	100.0	5.40	0.00	0.05					0.5		
58													
59													
60													
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KLR
7/13/08

Analyte: Alkalinity Low Level
 Method: 310.1 / SM20 2320 B

Analyst: KLR
 Pipette: HANS

Date: 6/30/08
 Time: 9:00

pH meter cal:		Buffer Lot #:
4.0	4	BDB2674H
7.0	6.98	BDB2680E
10.0	10	BDB2680F

Reagent:
 H2SO4: 0.02 N Log # WC85110A Date 2/13/08

Alkalinity, mg CaCO3 /L = $\frac{(2B-C) \times N \times 50,000}{\text{mL sample}}$

where:
 B = mL standard acid used
 C = total ml titrant to reach 0.3 pH units lower

Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol.@pH 4.5		Vol.@pH -0.3		Total Alkalinity (mg/L)	
					Vol.(B)	pH	Vol.(C)	pH		
1	44650	R-1112812	100.0	5.96	0.00	0.2	4.5	0.45	4.2	-0.50
2	44321	R-1106777	100.0	6.55	0.00	1.4	4.5	1.61	4.2	11.90
3		R-1106782	100.0	6.26	0.00	0.8	4.49	1.1	4.19	5.00
4										
5										
6										
7										
8										
9										
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37										
38										
39										

*hll
7/3/08*

2/13/08 Received from VWR

BB

(A) (1) x 4L Sulfuric acid, 0.02000N, Cat# VW3299-4
VWR Lot# 7312, CAS# 7664-93-9. Store @ R.T.

Expires 11/30/08

(B) (1) x 1 L Silica Standard, 10 mg/L, Cat# VW3618-1,
VWR Lot# 7338, CAS# 6834-92-0. Store @ R.T.

Expires 8/5/08

(C) (1) x 120mL Linear Alkylbenzene Sulfonate (LAS)
Standard, 1000 mg/L. Cat# H350-4, RICEA Lot#

1710411, CAS#s 68411-30-3, 7664-93-9. Store @ 4°C.

Expires 10/2008.

KR
2/14/08

(D) TSS Reference

0.2153g Naolin (WC69235G) brought to 1000g w/ DI.
Store at 4°C in a plastic bottle.

TV=215mg/L exp: 02/14/2009

2/14/08
NM

(E) Sodium Phenolate - NH₃

-same as WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN

-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

To a tared 1 liter amber glass jar add:

- 75.0g Sodium Salicylate (WC85098 B)

- 0.50g Sodium Nitroprusside (WC85102 D)

- 454g LI DI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH₃

-same as WC85105 C. Exp. 1 year, 2/14/09.

(J) Buffer - NH₃

-same as WC85094 B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN 1

TC To act

To a 2

- 268g

- 14.6g

to ~50l

Slowly

Dissolve

to vol.

2/14/08
RF

(B) Rec'd.

(1) x 100 p

CAS # 68

Reci

exp.

KR
02/14/08

(C) TSS Ref

0.3003

with

2/15/08 (D) Post-

Nm To a

(WC85111

Pour off 10

Mix throu

(E) Hypoch

15.0 mLs

Prepare

2/19/08 (F) NH₃

Nm -same a

(G) Hypoch

-same (

WLL
4/24/08

(A) TSS Reference

0.2118g Xaolin (WLL 69285G) brought to 1000g.
DI Store @ 4°C in a plastic bottle.
TV = 212 mg/L exp: 4/24/09

(WLL200IT)

4/24/08 (B) Buffer - TKN

NM

- same as WLL85088E. Exp. 1 month, 5/24/08



(C) Sodium Phenolate - NH₃

- same as WLL85131D. Exp. 1 year, 4/24/09.

4/28/08
BB

(D) Alkalinity LPS/MS Soln. 1166 mg/L

Licoride 1.0589g Na₂CO₃ (WLL6232D), previously
dried @ 104°C for 2 hours, in ~800 mL DI. Bring
to 1 L volumetrically w/DI. Store in plastic
@ 4°C. Expires 10/28/08.

4/28/08
BB

Received from CPI

(E) (3) x 100 COD Digestion Solutions Vials, 0-150 ppm,
Cat # 4380-150-360, CPI Lot # 71127A, CAS #
10294-26-5, 7783-35-9, 7664-93-9,
Store in a cool, dark place. Expires 11/2011

Received from VWR

(F) (10) x 8 mL Aqua Star Water Std, 0.1% Cat #
1.88051.0010, EMD Lot # HC784277, CAS # 167-98-2.
Store in flammable cabinet. Expires 11/30/2012.

200mLs

5/7/08

4/28/08
TC

(G) TKN Digest Reagent (3753)

To a 2 liter vol. flask add ~500 mL DI and
- 268g K₂SO₄ (WLL85109H)
- 14.6g CuSO₄ (WLL85040A)

Slowly add 268g conc. ammoniacal H₂SO₄ (WLL85132D)
Dissolve. Allow to cool, then bring to vol. w/ DI
Exp 1 month, 5/28/08.

4/27/08
N.M

(H) Hypochlorite - TKN

- same as WLL85111E. Prepare fresh each run.

20mls

(equals 400mLg)

6/24/08 (A) Ascorbic Acid - TPC4
Nm - same as WC85164I. Exp. 1 wk, 7/1/08

6/24/08 (B) TSS Reference
EW 0.2121g Kaolin (WC69285G) brought to 1000g w/DI.
Store in Plastic Bottle @ 4°C
TV = 212 mg/L Exp: 6/24/09 (4409)

6/24/08 Received from VWR
AB (C) (1) x 125g Potassium Hydrogen Phthalate,
Cat # PX1476-3, EMD Lot # 47183801, CAS #
877-24-7. Store @ R.T. Expires 6/24/13.

6/25/08 (D) Received from Honeywell
Cmw (D) (4) x 4L Chloroform, CAT# 048-4, Honeywell
Lot # CW014. CAS# 67-66-3. Store @ RT.
Expires 5 years from receipt, 6/25/2013.
(E) (4) x 4L Chloroform, CAT# 048-4, Honeywell
Lot # CW310. CAS# 67-66-3. Store @ RT.
Expires 5 years from receipt, 6/25/2013.

6/25/08 (F) Buffer - TOTN
Nm - same as WC85146A. Exp. 1 year, 6/25/09.

↓ (G) Color Reagent - TOTN
- same as WC85123A. Exp. 1 month, 7/25/08.

6/25/08 Received from VWR
AB (H) (2) x 100g Ammonium Persulfate, ultrapure,
Cat # 4030-04, JT Baker Lot # G22476, CAS
7727-54-0. Store @ 4°C. Expires 5/31/2010

6/25/08 (I) Alkalinity Reference Sol'n 50mg/L
Cmw 10.0 ml 5000 mg/L Alk Ref. Stock (WC85157H) to 1 L vol. with DI.
Store in plastic at 4°C exp to months 12/2/08

Run #: 163216

Analyte: ALK SM2320B ALKALINITY, TOTAL

Printed: 07/02/08 16:05

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114588	SOIL/SEDIME	48.0	1.0	200	96.0		07/01/2008		
BLK1		1114589	SOIL/SEDIME	0.200	1.0	200			07/01/2008		
BLK5		1114591	SOIL/SEDIME	1.00	1.0	200			07/01/2008		
SPKB		1114590	SOIL/SEDIME	19.0	1.0	200	95.0		07/01/2008		
ESMP	R2844666	1113245	SOIL/SEDIME	364	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113249	SOIL/SEDIME	286	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113250	SOIL/SEDIME	273	1.0	200			07/01/2008	QC	ASPB
LDUP		1114592	SOIL/SEDIME	281	1.0	200		2.89	07/01/2008		
SPK1		1114593	SOIL/SEDIME	393	1.0	200	90.0		07/01/2008		
ESMP	R2844666	1113254	SOIL/SEDIME	250	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113255	SOIL/SEDIME	171	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113256	SOIL/SEDIME	453	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113257	SOIL/SEDIME	236	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113258	SOIL/SEDIME	81.0	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113259	SOIL/SEDIME	452	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113262	SOIL/SEDIME	222	1.0	200			07/01/2008		ASPB
ESMP	R2844650	1113426	WATER	144	1.0	2.00			07/01/2008		ASPB
LDUP		1114594	WATER	144	1.0	2.00		0.28	07/01/2008		
SPK1		1114595	WATER	182	1.0	2.00	95.0		07/01/2008		
ESMP	R2844650	1113427	WATER	110	1.0	2.00			07/01/2008		ASPB
ESMP	R2844650	1113428	WATER	82.0	1.0	2.00			07/01/2008		ASPB
ESMP	R2844650	1113429	WATER	84.0	1.0	2.00			07/01/2008		ASPB
ESMP	R2844650	1113430	WATER	120	1.0	2.00			07/01/2008		ASPB

Records printed: 23

Run #: 163214

Analyte: BICARB SM2320B ALKALINITY, BICARBONATE

Printed: 07/02/08 15:55

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114570	SOIL/SEDIME	48.0	1.0	200	9.6		07/01/2008		
BLK1		1114571	SOIL/SEDIME	0.200	1.0	200			07/01/2008		
BLK5		1114573	SOIL/SEDIME	1.00	1.0	200			07/01/2008		
SPKE		1114572	SOIL/SEDIME	19.1	1.0	200	95.5		07/01/2008		<i>not needed CK 7/1/08</i>
ESMP	R2844666	1113245	SOIL/SEDIME	345	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113249	SOIL/SEDIME	214	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113250	SOIL/SEDIME	217	1.0	200			07/01/2008	QC	ASPB
LDUP		1114574	SOIL/SEDIME	215	1.0	200		0.93	07/01/2008		
SPK1		1114575	SOIL/SEDIME	201	1.0	200	97.5		07/01/2008		<i>CK 7/1/08</i>
ESMP	R2844666	1113254	SOIL/SEDIME	238	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113255	SOIL/SEDIME	171	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113256	SOIL/SEDIME	153 240 <i>CK 7/1/08</i>	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113257	SOIL/SEDIME	236 213	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113258	SOIL/SEDIME	81.0	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113259	SOIL/SEDIME	295	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113262	SOIL/SEDIME	198	1.0	200			07/01/2008		ASPB
ESMP	R2844650	1113426	WATER	144	1.0	2.00			07/01/2008		ASPB
LDUP		1114576	WATER	144	1.0	2.00		0.28	07/01/2008		
SPK1		1114614	WATER	182	1.0	2.00	95.0		07/01/2008		<i>CK 7/1/08</i>
ESMP	R2844650	1113427	WATER	110	1.0	2.00			07/01/2008		ASPB
ESMP	R2844650	1113428	WATER	82.0	1.0	2.00			07/01/2008		ASPB
ESMP	R2844650	1113429	WATER	84.0	1.0	2.00			07/01/2008		ASPB
ESMP	R2844650	1113430	WATER	120	1.0	2.00			07/01/2008		ASPB

Records printed: 23

Run #: 163215

Analyte: CARBONATE SM2320B ALKALINITY, CARBONATE

Printed: 07/02/08 16:00

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114578	SOIL/SEDIME	48.0	1.0	200	96.0		07/01/2008		
BLK1		1114579	SOIL/SEDIME	0.200	1.0	200			07/01/2008		
BLK5		1114583	SOIL/SEDIME	1.00	1.0	200			07/01/2008		
SPKB		1114581	SOIL/SEDIME	19.0	1.0	200	95.0		07/01/2008		
ESMP	R2844666	1113245	SOIL/SEDIME	18.0	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113249	SOIL/SEDIME	71.0	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113250	SOIL/SEDIME	56.0	1.0	200			07/01/2008	QC	ASPB
LDUP		1114584	SOIL/SEDIME	67.0	1.0	200		17.89	07/01/2008		
SPK1		1114585	SOIL/SEDIME	189	1.0	200	141.8		07/01/2008		
ESMP	R2844666	1113254	SOIL/SEDIME	13.0	1.0	200			07/01/2008		ASPB
ESMP	R2844666	1113255	SOIL/SEDIME	200	U	1.0	200		07/01/2008		ASPB
ESMP	R2844666	1113256	SOIL/SEDIME	213		1.0	200		07/01/2008		ASPB
ESMP	R2844666	1113257	SOIL/SEDIME	24.0		1.0	200		07/01/2008		ASPB
ESMP	R2844666	1113258	SOIL/SEDIME	200	U	1.0	200		07/01/2008		ASPB
ESMP	R2844666	1113259	SOIL/SEDIME	157		1.0	200		07/01/2008		ASPB
ESMP	R2844666	1113262	SOIL/SEDIME	24.0		1.0	200		07/01/2008		ASPB
ESMP	R2844650	1113426	WATER	2.00	U	1.0	2.00		07/01/2008		ASPB
LDUP		1114586	WATER	2.00	U	1.0	2.00		07/01/2008		
ESMP	R2844650	1113427	WATER	2.00	U	1.0	2.00		07/01/2008		ASPB
ESMP	R2844650	1113428	WATER	2.00	U	1.0	2.00		07/01/2008		ASPB
ESMP	R2844650	1113429	WATER	2.00	U	1.0	2.00		07/01/2008		ASPB
ESMP	R2844650	1113430	WATER	2.00	U	1.0	2.00		07/01/2008		ASPB

07/01/08 not needed

07/01/08

Records printed: 22

Analyte: Alkalinity Regular Level X
 Method: 310.1 / SM20 2320 B High Level _____

Analyst: KLR
 Pipette: HANS

Date: 7/1/08
 Time: 9:07

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO ₃	Carbonate Alkalinity as CaCO ₃	Bicarbonate Concentration as CaCO ₃
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity

T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO₃ / L = (A_(mL acid used) × N_(H₂SO₄) × 50,000) / mL sam_f * Soils - 1g of sample diluted to 100mLs in DI

pH meter cal:

4.0	<u>4</u>
7.0	<u>6.97</u>
10.0	<u>10</u>

Buffer Lot #:

<u>BDB2674H</u>
<u>BDB2680E</u>
<u>BDB2680F</u>

Reagents: Concentration Log # Date

H ₂ SO ₄ : 0.020 N	WC85110A	2/13/08
Reg Level Reference: 50 mg/L	WC85169I	
High Level Reference: 5000 mg/L	WC85157H	
LCS/MS Solution: 1000 mg/L	WC85143D	

Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH-Alk.	Carb Alk.	Bicarb Alk.	Total Alk.	Vol. Spk 1000ppm (mL)	*Soil (X)
1	TV = 50	ICV	25.0	9.44	0.00	1.20					48.0		
2		ICB	100.0	5.20	0.00	0.02					0.2		
3	TV = 20	LCS	100.0	9.79	0.00	1.91					19.1	2.0	
4		MB	100.0	5.39	0.00	0.10					1.0		
5	44666	R-1113245	55.0	8.95	0.00	2.00	0.05	0.9	0.0	1.8	34.5	36.4	
6		R-1113249	70.0	9.44	0.00	2.00	0.25	3.6	0.0	7.1	21.4	28.6	
7		R-1113250	75.0	9.37	0.00	2.05	0.21	2.8	0.0	5.6	21.7	27.3	
8	DUP	R-1113250	75.0	9.30	0.00	2.11	0.25	3.3	0.0	6.7	21.5	28.1	
9	SPK TV = 13.33	R-1113250	75.0	9.68	0.00	2.95	0.71	9.5	0.0	18.9	20.4	39.3	1.0
10		R-1113254	80.0	8.65	0.00	2.00	0.05	0.6	0.0	1.3	23.8	25.0	
11		R-1113255	100.0	8.04	0.00	LL	0.00	0.0	0.0	0.0	0.0	0.0	
12		R-1113256	75.0	9.63	0.00	3.40	0.80	10.7	0.0	21.3	24.0	45.3	
13		R-1113257	85.0	9.13	0.00	2.01	0.10	1.2	0.0	2.4	21.3	23.6	
14		R-1113258	100.0	7.47	0.00	LL	0.00	0.0	0.0	0.0	0.0	0.0	
15		R-1113259	75.0	9.25	0.00	3.39	0.59	7.9	0.0	15.7	29.5	45.2	
16		R-1113262	90.0	8.92	0.00	2.00	0.11	1.2	0.0	2.4	19.8	22.2	
16	TV = 50	CCV	25.0	9.69	0.00	1.25					50.0		
17		CCB	100.0	5.56	0.00	0.09					0.9		
18	44650	R-1113426	25.0	7.50	0.00	3.60	0.00	0.0	0.0	0.0	144.0	144.0	
19	DUP	R-1113426	25.0	7.33	0.00	3.59	0.00	0.0	0.0	0.0	143.6	143.6	
20	SPK TV = 2.5	R-1113426	25.0	7.94	0.00	4.55	0.00	0.0	0.0	0.0	182.0	182.0	1.0
21		R-1113427	25.0	7.68	0.00	2.75	0.00	0.0	0.0	0.0	110.0	110.0	
22		R-1113428	25.0	7.53	0.00	2.05	0.00	0.0	0.0	0.0	82.0	82.0	
23		R-1113429	25.0	7.64	0.00	2.10	0.00	0.0	0.0	0.0	84.0	84.0	
24		R-1113430	25.0	7.56	0.00	3.00	0.00	0.0	0.0	0.0	120.0	120.0	
25	44321	R-1106783	60.0	8.92	0.00	2.00					33.3		
26		R-1106786	50.0	7.38	0.00	3.88					77.6		
27		R-1106790	50.0	7.54	0.00	2.00					40.0		
28		R-1106791	25.0	7.30	0.00	5.65					226.0		
29	44557	R-1110504	100.0	5.63	0.00	LL					0.0		
30	TV = 50	CCV	25.0	9.57	0.00	1.25					50.0		
31		CCB	100.0	5.43	0.00	0.02					0.2		
32	TV = 20	LCS	100.0	9.91	0.00	2.00					20.0	2.0	
33	44557	R-1110505	100.0	7.00	0.00	LL					0.0		
34		R-1110506	100.0	7.13	0.00	2.00					20.0		
35		R-1110507	100.0	6.99	0.00	LL					0.0		
36	44175	R-1110710	15.0	7.97	0.00	5.09					339.3		
37	44321 HL	R-1106830	2.0	10.65	0.00	5.40					2700.0		Rot high level

Analyte: Alkalinity Regular Level X
 Method: 310.1 / SM20 2320 B High Level

Analyst: KLR
 Pipette: HANS

Date: 7/1/08
 Time: 9:07

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity

T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3 / L = (A_(mL acid used) × N_(H2SO4) × 50,000) / mL sampl * Soils - 1g of sample diluted to 100mLs in DI

pH meter cal:

4.0	4
7.0	6.97
10.0	10

Buffer Lot #:

BDB2674H
BDB2680E
BDB2680F

Reagents: Concentration
 H2SO4: 0.020 N
 Reg Level Reference: 50 mg/L
 High Level Reference: 5000 mg/L
 LCS/MS Solution: 1000 mg/L

Log # Date

WC85110A	2/13/08
WC85169I	
WC85157H	
WC85143D	

Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH- Alk.	Carb Alk.	Bicarb Alk.	Total Alk.	Vol. Spk 1000ppm (mL)	*Soil (X)
38	44621	R-1111407	25.0	7.90	0.00	3.30					132.0		
39	DUP	R-1111407	25.0	8.03	0.00	3.30					132.0		
40	SPK TV = 40	R-1111407	25.0	9.04	0.00	4.32					172.8	1.0	
41		R-1111638	100.0	7.03	0.00	LL					0.0		
42		R-1111639	100.0	7.54	0.00	4.10					41.0		
43		R-1111640	50.0	7.81	0.00	4.75					95.0		
44		R-1111726	25.0	7.65	0.00	3.09					123.6		
45	TV = 50	CCV	25.0	9.56	0.00	1.28					51.2		
46		CCB	100.0	5.41	0.00	0.02					0.2		
47	44621	R-1111727	25.0	7.89	0.00	3.50					140.0		
48	DUP	R-1111727	25.0	7.88	0.00	3.50					140.0		
49	SPK TV = 40	R-1111727	25.0	8.98	0.00	4.39					175.6	1.0	
50	44305	R-1106639	25.0	7.43	0.00	4.58					183.2		
51		R-1106640	25.0	7.75	0.00	7.15					286.0		
52		R-1106641	15.0	7.10	0.00	7.42					494.7		
53	44746	R-1113136	25.0	7.59	0.00	5.11					204.4		
54		R-1113137	25.0	8.12	0.00	3.81					152.4		
55		R-1113138	25.0	8.22	0.00	3.40					136.0		
56		R-1113139	25.0	7.40	0.00	3.51					140.4		
57		R-1113142	100.0	7.05	0.00	LL					0.0		
58		R-1113285	100.0	7.10	0.00	LL					0.0		
59		CCV	25.0	9.29	0.00	1.25					50.0		
60		CCB	100.0	5.31	0.00	0.05					0.5		
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Handwritten: mlc 7/3/08

Analyte: Alkalinity Low Level
 Method: 310.1 / SM20 2320 B

Analyst: KLR
 Pipette: HANS

Date: 7/1/08
 Time: 9:07

pH meter cal:		Buffer Lot #:
4.0	4	BDB2674H
7.0	6.97	BDB2680E
10.0	10	BDB2680F

Reagent:
 H2SO4: 0.02 N WC85110A 2/13/08

Alkalinity, mg CaCO₃ /L = $\frac{(2B-C) \times N \times 50,000}{\text{mL sample}}$

where:
 B = mL standard acid used
 C = total ml titrant to reach 0.3 pH units lower

Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol.@pH 4.5		Vol.@pH -0.3		Total Alkalinity (mg/L)	
					Vol.(B)	pH	Vol.(C)	pH		
1	44666	R-1113255	100.0	8.04	0.00	1.91	4.5	2.11	4.19	17.10
2		R-1113258	100.0	7.47	0.00	1.15	4.5	1.49	4.2	8.10
3	44557	R-1110504	100.0	5.63	0.00	0.2	4.49	0.4	4.2	0.00
4		R-1110505	100.0	7.00	0.00	0.9	4.5	1.11	4.2	6.90
5		R-1110507	100.0	6.99	0.00	0.95	4.5	1.15	4.19	7.50
6	44621	R-1111630	100.0	7.03	0.00	1.15	4.45	1.32	4.19	9.80
7	44746	R-1113142	100.0	7.05	0.00	1.31	4.45	1.5	4.19	11.20
8		R-1113285	100.0	7.10	0.00	1.4	4.45	1.6	4.19+	12.00
9										
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hve
7/3/08

Analyte: Alkalinity Regular Level _____
 Method: 310.1 / SM20 2320 B High Level X

Analyst: KLR
 Pipette: HANS

Date: 7/1/08
 Time: 9:00-9:07

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO ₃	Carbonate Alkalinity as CaCO ₃	Bicarbonate Concentration as CaCO ₃
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO₃ /L = (A_(mL acid used) × N_(H₂SO₄) × 50,000) / mL sampl* Soils - 1g of sample diluted to 100mLs in DI

pH meter cal:

4.0	<u>4</u>
7.0	<u>6.97</u>
10.0	<u>10</u>

Buffer Lot #:

<u>BDB2674H</u>
<u>BDB2680E</u>
<u>BDB2680F</u>

Reagents: Concentration Log # Date

H ₂ SO ₄ : 0.100 N	WC85132C	3/28/08
Reg Level Reference: 50 mg/L	WC85169I	
High Level Reference: 5000 mg/L	WC85157H	
LCS/MS Solution: 1000 mg/L	WC85143D	

Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH- Alk.	Carb Alk.	Bicarb Alk.	Total Alk.	Vol. Spk 5000ppm (mL)	*Soil (X)
1	TV = 5000	ICV	2.0	10.38	0.00	1.95					4875.0		
2		ICB	100.0	5.26	0.00	0.01					0.5		
3	TV = 1000	LCS	25.0	10.56	0.00	4.90					980.0		
4		R-1106830	4.0	10.59	0.00	2.00					2500.0		
5	DUP	R-1106830	4.0	11.14	0.00	2.00					2500.0		
6	SPK TV = 1250	R-1106830	4.0	11.17	0.00	3.05					3812.5	1.0	
7	TV = 5000	CCV	2.0	10.38	0.00	2.01					5025.0		
8		CCB	100.0	5.50	0.00	0.00					0.0		
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mle
7/3/08

3/08
BB

Received from VWR

(A) (1) x 4L Sulfuric acid, 0.02000N, Cat# VW3299-4
VWR Lot# 7312, CAS# 7664-93-9. Store @ R.T.
Expires 11/30/08

(B) (1) x 1 L Salicylic Standard, 10 mg/L, Cat# VW3618-1
VWR Lot# 7338, CAS# 6834-92-0. Store @ R.T.
Expires 8/5/08

(C) (1) x 120mL Linear Alkylbenzene Sulfonate (LAS)
Standard, 1000mg/L. Cat# 4350-4, RICOA Lot#
1710411, CAS#s 68411-30-3, 7664-93-9. Store @ 4°C.
Expires 10/2008.

2/11/08
RP

(D) TSS Reference

0.2153g Naolin(WC69285G) brought to 1000g w/ DI.
Store at 4°C in a plastic bottle.
TV=215mg/L exp: 02/11/2009

2/14/08
NM

(E) Sodium Phenolate - NH3
-same as WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN
-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN
-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN
To a tared 1 liter amber glass jar add:
- 75.0g Sodium Salicylate (WC85094B)
- 0.50g Sodium Nitroprusside (WC85102D)
- 454g DI.
Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH3
-same as WC85105 C. Exp. 1 year, 2/14/09.

(J) Buffer - NH3
-same as WC85094B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN

IC To ~700
To a 2 l
- 268g
- 14.6g
to ~500
Slowly
Dissolve
to vol.

2/14/08 (B) Rec'd for
RP (1) x 100 pill
CAS# 65.
Rec'd
exp. c

2/14/08 (C) TSS Ref
0.3003g
with T

2/15/08 (D) Post-T
NM To a
(WC85111)
Pour off 10
mix there

(E) Hypochl
15.0 mL
Prepare

2/19/08 (F) NH3
NM -same as

(G) Hypochl
-same as

WLF
4/24/08

(A) TSS Reference

0.2118g Naolin (WLF 692856) brought to 1000g w/
DI Stone @ 4°C in a plastic bottle.
TV = 212 mg/L exp: 4/24/09

4/29/08 (B) Buffer - TKN

Nm

- same as WLF 85088 E. Exp. 1 month, 5/24/08



(C) Sodium Phenolate - NH3

- same as WLF 85131 D. Exp. 1 year, 4/24/09.

4/28/08
R.B.

(D) Alkalinity, LOS/MS Soln, 1166 mg/L

Na2CO3 1.0589g (WLF 62520), previously
dried @ 104°C for 2 hours, in ~800 mL DI. Bring
to 1 L volumetrically w/DI. Store in plastic
@ 4°C. Expires 10/28/08

4/28/08
R.B.

Received from CPI

(E) (3) x 100 COD Digestion Solution Vials, 0-150 ppm.
Cat # 4380-150-300, CPI Lot # 71127A, CAS #
10294-26-5, 7783-35-9, 7664-93-9,
Store in a cool, dark place. Expires 11/2011

Received from VWR

(F) (10) x 8 mL Aquasol Water Std, 0.1%. Cat #
1.88051.0010, EMD Lot # HC 784277, CAS # 107-98-2.
Store in flammable cabinet. Expires 11/30/2012.

4/20/08
TC

(G) TKN Digest Reagent (3753)

To a 2 liter vol. of flask add ~500 mL DI and
- 268g K2SO4 (WLF 85109 H)
- 14.6g CuSO4 (WLF 85040 A)
Slowly add 268g conc. ammoniacal H2SO4 (WLF 85132 D)
Dissolve. Allow to cool, then bring to vol. w/ DI
Exp 1 month, 5/28/08.

4/27/08
N.H.

(H) Hypochlorite - TKN

- same as WLF 85111 E. Prepare fresh each run.

6/24/08 (A) Ascorbic Acid - TPC4
 Nim - same as WC85104I. Exp. 1 yr, 7/1/08

200 mLs

(equals 400 mLs)

6/24/08 (B) TSS Reference
 EW 0.2121g Kaolin (WC69285G) brought to 1000g
 w/DI.
 Store in Plastic Bottle @ 4°C
 TV = 212 mg/L Exp: 6/24/09 (4409)

6/24/08 Received from VWR
 AB (C) (1) x 125g Potassium Hydrogen Phthalate,
 Cat # PX1476-3, EMD Lot # 47183801, CAS #
 877-24-7. Store @ R.T. Expires 6/24/13.

6/25/08 (D) Received from Honeywell
 Cmw (E) (4) x 4L Chloroform, CAT# 048-4, Honeywell
 Lot # CW014. CAS# 67-66-3. Store @ RT.
 Expires 5 years from receipt, 6/25/2013.
 (E) (4) x 4L Chloroform, CAT# 048-4, Honeywell
 Lot # CW310. CAS# 67-66-3. Store @ RT.
 Expires 5 years from receipt, 6/25/2013.

6/25/08 (F) Buffer - TOTN
 Nim - same as WC85146A. Exp. 1 year, 6/25/09.

↓ (G) Color Reagent - TOTN
 - same as WC85123A. Exp. 1 month, 7/25/08.

6/25/08 Received from VWR
 AB (H) (2) x 100g Ammonium Persulfate, ultrapure,
 Cat # 4030-04, JT Baker Lot # G22476, CAS
 # 7727-54-0. Store @ 4°C. Expires 5/31/2010

6/25/08 (I) Alkalinity Reference Seawater 500 mg/L
 Cmw 10.0 ml 5000 mg/L Alk Ref. Stock (WC85157H) to 1 L vol. with DI.
 Store in plastic at 4°C exp 6 months 12/2/08

5/30/08 (A) NH3 Carrier / Diluent
NM - same as WC85139B. Prepared solution X2.

5/12/08
6/27/08

(B) Hypochlorite - NH3
- same as WC85^{142F}~~141F~~. Prepare fresh each run.

titrimetrically
4°C

(C) Buffer - TKN
- same as WC85088E. Exp. 6/30/08.

(D) 0.8M NaOH - TKN
- same as WC85090I. Exp. 1 month, 6/30/08.

igest Reagent
I. Mix thoroughly,
ick to volume w/ DI
glass. Exp. 6/27/08.

5/30/08 (E) TKN Digest Reagent
TC - same as WC85143G. Exp. 1 month 6/30/08.

ch run.

5/30/08 (F) NO2 - Ammonium Chloride Buffer
GN In a 500 mL flask dissolve 6.50g ammonium chloride
(WC85087F) and 0.85g disodium EDTA (WC85017C) in 400 mL DI.
Adjust pH to 8.5 with concentrated ammonium hydroxide (WC85088E).
Dilute to 500 mL. Store in a Korolab reagent vial at 0-6°C.
Exp 1 year

ut to 1000 g w/DI.
09. TV = 215 mg/L

5/30/08 (G) Ascorbic Acid - Korolab
GN - same as WC85141F. Exp 2 weeks 6/13/08

12/8/09.

up
6/2/08

(H) Alkalinity Reference Stock, 5000 mg/L
5.300g Na_2CO_3 (WC76²³⁰⁰~~2300~~) \rightarrow 1000 mL w/DI.
Store at 4°C in plastic. Expires 6 months, 12/2/08.
 Na_2CO_3 was previously dried at 104°C for 1 hour, cooled
and stored in a desiccator.

6/28/08.

(I) Alkalinity Reference, Sol'n, 50 mg/L
100 mL 5000 mg/L Alk. Reference Stock (WC85157H)
 \rightarrow 1000 mL w/DI. Store in plastic @ 4°C for 6
months. expires. 12/2/08

6/12/08

6/4/08
EW

(J) TSS Reference
0.2117g Kadin (WC69285G) brought to 1000g w/DI
Store in a plastic bottle @ 4°C.
TV = 212 mg/L exp: 6/2/09

titrimetrically
@ 4°C
= 200 mg/L

- 3/27/08
BB
↓
- (A) 10% Phosphoric Acid
Same as WC85092D. Expires 3/27/09
- (B) CdO₂ Reagent for Phos
Same as WC85090C. Expires 4/10/08
- 3/28/08
BB
↓
- (C) Received from VWR
(1) x 1 L Sulfuric Acid, 0.1000 N, Cat# VW3230-1,
VWR Lot# 8037, CAS# 7664-93-9. Store @ R.T.
Expires 7/31/09
- (D) (4) x 2.5L Sulfuric Acid, mm trace. Cat# SX124712,
EMD Lot# 47043, CAS# 7664-93-9. Store @ R.T.
Expires 3/28/2013
- 3/28/08
NM
↓
- (E) 0.8 M NaOH - TKN
-same as WC85090 I. Exp. 1 month, 4/28/08
- (F) Buffer - TKN
-same as WC85088 E. Exp. 1 month, 4/28/08.
- 3/28/08
BB
- (G) Received from CPI
(2) x 20 0/G Silver SPE disks, Cat# 7350-13,
CPI Lot# 032708. Store @ R.T. Exp. NA
- 3/29/08
RP
- (H) C¹⁴ CdO₂ reagent - Konelab
Same as WC85087C exp. 1 month 4/29/08
- 3/31/08
TC
- (I) TKN Digest Reagent
Same as WC85123C. Exp. 1 month, 4/30/08.
- 3/31/08
GN
- (J) 0.02500 Na₂S₂O₃ - fuchs
Dilute 50.0 mL 0.1N Na₂S₂O₃ (WC85080B) → 200 mL
voluntarily w/0.1. Mix until dissolved. Store at
4°C. Exp 2 weeks 4/14/08
- 4/1/08
NM
- (K) Post-Digestion matrix match - TKN
To a 2-L vol. flask add 800 mL TKN Digest Reagent (WC85130I)
and bring to volume w/UPDI. mix thoroughly, pour off 100 mL
and discard. Bring back to volume w/UPDI, mix thoroughly, store
@ RT in amber abs. Exp. 4/30/08.

Run #: 163108

Analyte: TOTAL CN 9012.TOT TOTAL CYANIDE BY SW-846 9012A

Printed: 07/01/08 14:24

R44538
R44650
R44666
3690

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
				RESULT								
CHK1		1113891	WATER	0.719		1.0	0.0100	102.7		07/01/2008		
BLK1		1113892	WATER	0.0100	U	1.0	0.0100			07/01/2008		
BLK2		1113893	WATER	0.0100	U	1.0	0.0100			07/01/2008		
SPKB		1113894	WATER	0.0933		1.0	0.0100	93.3		07/01/2008		
SPKB		1113895	WATER	0.408		1.0	0.0100	102.0		07/01/2008		
ESMP	R2844503	1109355	WATER	0.0100	U	1.0	0.0100			07/01/2008	RUN	2
LDUP		1113896	WATER	0.0100	U	1.0	0.0100			07/01/2008		
SPK1		1113897	WATER	0.0947		1.0	0.0100	94.7		07/01/2008		
ESMP	R2844503	1109356	WATER	0.0100	U	1.0	0.0100			07/01/2008	RUN	2
ESMP	R2844538	1111265	WATER	0.0365		1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER	0.0379		1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER	0.0255		1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844538	1111763	WATER	0.0224		1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844538	1111764	WATER	0.0394		1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER	0.0100	U	1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844650	1112065	WATER	0.0326		1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844650	1112066	WATER	0.0376		1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.0100	U	1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844666	1112361	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
SPKS		1113904	SOIL/SEDIME	4.90		1.0	1.00	98.1		07/01/2008		
SPKS		1113905	SOIL/SEDIME	20.8		1.0	1.00	104.3		07/01/2008		
ESMP	R2844666	1112362	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008	QC	ASPB
LDUP		1113906	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		
SPK1		1113907	SOIL/SEDIME	4.88		1.0	1.00	103.5		07/01/2008		
ESMP	R2844666	1112363	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	1112364	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	1112365	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844650	1112486	WATER	0.0100	U	1.0	0.0100			07/01/2008	RUN	ASPB
LDUP		1113898	WATER	0.0100	U	1.0	0.0100			07/01/2008		
SPK1		1113899	WATER	0.0100	U	1.0	0.0100			07/01/2008		
ESMP	R2844650	1112487	WATER	0.0100	U	1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844650	1112488	WATER	0.0358		1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844650	1112489	WATER	0.0100	U	1.0	0.0100			07/01/2008	RUN	ASPB
ESMP	R2844650	1112809	WATER	0.0100	U	1.0	0.0100			07/01/2008		ASPB
ESMP	R2844650	1112810	WATER	0.0100	U	1.0	0.0100			07/01/2008		ASPB
ESMP	R2844650	1112811	WATER	0.0100	U	1.0	0.0100			07/01/2008		ASPB
ESMP	R2844650	1112812	WATER	0.0100	U	1.0	0.0100			07/01/2008		ASPB
LDUP	SPKB	1113900	WATER	0.100		1.0	0.0100	100.3		07/01/2008		
SPKB	SPKB	1113901	WATER	0.410		1.0	0.0100	102.6		07/01/2008		
ESMP	R2844650	1112871	WATER	0.0287		1.0	0.0100			07/01/2008		ASPB
ESMP	R2844650	1112872	WATER	0.0280		1.0	0.0100			07/01/2008		ASPB
ESMP	R2844650	1112874	WATER	0.0100	U	1.0	0.0100			07/01/2008	QC	ASPB
LDUP		1113902	WATER	0.0100	U	1.0	0.0100			07/01/2008		
SPK1		1113903	WATER	0.0736		1.0	0.0100	73.6		07/01/2008		
ESMP	R2844666	1113245	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	1113249	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	1113250	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008	QC	ASPB
LDUP		1113908	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		
SPK1		1113909	SOIL/SEDIME	4.68		1.0	1.00	104.9		07/01/2008		
ESMP	R2844666	1113254	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	1113255	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB

Reviewed & Approved

By: OKW

Date: 7/2/08

07/01/2008 Ch 7/2/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>RESULT</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
ESMP	R2844666	- 1113256	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	- 1113257	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	- 1113258	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	- 1113259	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	- 1113262	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
BLK2		- 1114225	SOIL/SEDIME	1.00	U	1.0	1.00					

Records printed: 56

Midi-Cyanide Distillation Sheet

Stock ppm: 978,432

Analyst: GNITA

Date Std'n: 1/18/08

Date: 6/30/08

10 ppm Spike Solution:

Chiller Temp: 6°C

Date made: 6/30/08

Midi Block #1 Temp: 1250

mL used: 1.022

Midi Block #2 Temp: 125°C

Pipette ID: T4

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1	Prep Blk	water		50	50	335.4/9012	N/A	N/A	
2	LCS-LL	water		50	50	335.4/9012	N/A	N/A	+0.5ml of 10ppm
3	LCS-HL	water		50	50	335.4/9012	N/A	N/A	+2.0ml of 10ppm
4		R44503	1109355	50	50	9012	≥12	-	
5			355 DUP	50	50	9012	≥12	-	
6			355 SPK	50	50	9012	≥12	-	+0.5ml of 10ppm
7			1109356	50	50	9012	≥12	-	
8		R44538	1111264	50	50	9012	≥12	-	
9			1111265	50	50	9012	~10	-	
10			1111266	50	50	9012	≥12	-	
11			1111267	50	50	9012	≥12	-	
12			1111763	50	50	9012	≥12	-	
13			1111764	50	50	9012	≥12	-	
14			1111765	50	50	9012	≥12	-	
15		R44650	1112065	50	50	9012	≥12	-	
16			1112066	50	50	9012	~10	-	
17			1112067	50	50	9012	≥12	-	
18			1112486	50	50	9012	≥12	-	
19			486 DUP	50	50	9012	≥12	-	
20			486 SPK	50	50	9012	≥12	-	+0.5ml of 10ppm

Midi-Cyanide Distillation Sheet

Analyst: GN

Date: 6/30/08

Chiller Temp: 7°C

Midi Block #1 Temp: 125°C

Midi Block #2 Temp: 125°C

Stock ppm: _____

Date Std'n: _____

10 ppm Spike Solution: _____

Date made: _____

mL used: _____

Pipette ID: _____

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1			1112487	50	50	9012	>12	-	
2			1112488	50	50	9012	>12	-	
3			1112489	50	50	9012	>12	-	
4			1112809	50	50	9012	>10	-	
5			1112810	50	50	9012	~8	-	
6			1112811	50	50	9012	~8	-	
7			1112812	50	50	9012	>12	-	
8	Prep Blk	water		50	50	9012	N/A	N/A	
9	LCS-LL	water		50	50	9012	N/A	N/A	+0.5ml of 10ppm
10	LCS-HL	water		50	50	9012	N/A	N/A	+2.0ml of 10ppm
11			1112874	50	50	9012	~9	-	
12			874 DUP	50	50	9012	~9	-	
13			874 SPK	50	50	9012	~9	-	+0.5ml of 10ppm
14			1112871	50	50	9012	>12	-	
15			1112872	50	50	9012	>12	-	
16		R44729	1112950	50	50	335.4	>12	-	
17	Prep Blk	soil		1.00	50	9012	N/A	N/A	
18	LCS-LL	soil		1.00	50	9012	N/A	N/A	+0.5ml of 10ppm
19	LCS-HL	soil		1.00	50	9012	N/A	N/A	+2.0 ml of 10ppm
20		R44666	1112361	1.02	50	9012	N/A	-	

490

Midi-Cyanide Distillation Sheet

Analyst: GN

Date: 6/30/08

Chiller Temp: 7°C

Midi Block #1 Temp: 125°C

Midi Block #2 Temp: 125°C

Stock ppm: _____

Date Std'n: _____

10 ppm Spike Solution: _____

Date made: _____

mL used: _____

Pipette ID: _____

3

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1		R44666	1112362	1.07	50	9012	N/A	—	
2			362 DUP	1.11	50	9012	N/A	—	
3			362 SPK	1.06	50	9012	N/A	—	+0.2mls of 10ppm
4			1112363	1.08	50	9012	N/A	—	
5			1112364	1.19	50	9012	N/A	—	
6			1112365	1.06	50	9012	N/A	—	
7			1113245	1.14	50	9012	N/A	—	
8			1113249	1.10	50	9012	N/A	—	
9			1113250	1.06	50	9012	N/A	—	
10			250 DUP	1.19	50	9012	N/A	—	
11			250 SPK	1.12	50	9012	N/A	—	+0.2mls of 10ppm
12			1113254	1.19	50	9012	N/A	—	
13			1113255	1.07	50	9012	N/A	—	
14			1113256	1.01	50	9012	N/A	—	
15			1113257	1.09	50	9012	N/A	—	
16			1113258	1.03	50	9012	N/A	—	
17			1113259	1.08	50	9012	N/A	—	
18			1113262	1.09	50	9012	N/A	—	
19					50				
20					50				

46.73
45.05
47.17
46.29
42.02
47.17
43.86
45.45
47.17
42.02
44.64
42.02
46.73
49.50
45.87
48.54
46.20
45.87

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200
 Analyst: *GNITA*

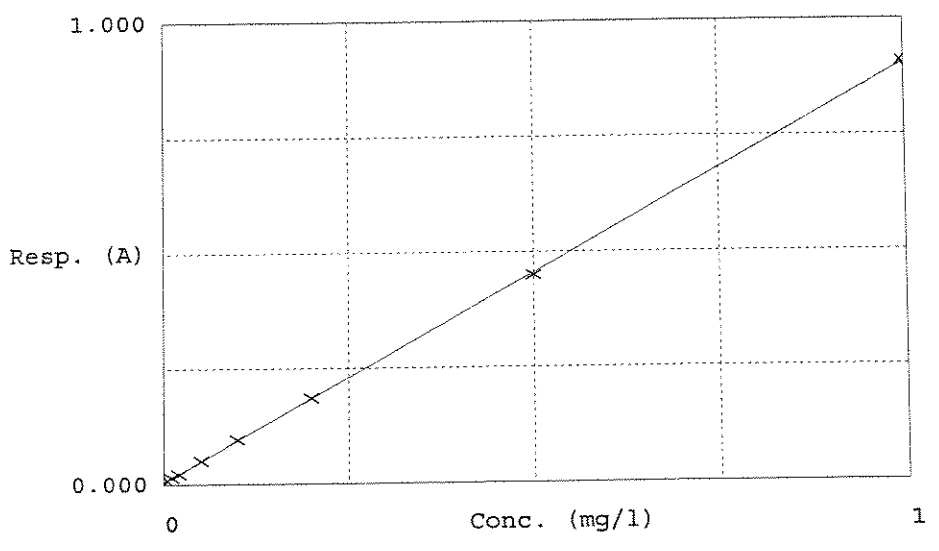
01.07.2008 09:02

Test Total CN *336.4 / 9012* *Pipet used: E1*

Accepted 01.07.2008 09:02
 Factor 1.11103
 Bias 0.00499

Coeff. of det. 0.999945

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.00624	0.00139	0.00000	
2	CN-0.01	0.01471	0.01080	0.01000	
3	CN-0.02	0.02141	0.01824	0.02000	
4	CN-0.05	0.05082	0.05092	0.05000	
5	CN-0.1	0.09596	0.10107	0.10000	
6	CN-0.2	0.18563	0.20070	0.20000	
7	CN-0.5	0.44990	0.49430	0.50000	
8	CN-1	0.90739	1.00258	1.00000	
9	1 ICV-TCN(contr	0.65190	0.71873	0.70000	
10	2 ICB-TCN(contr	0.00593	0.00105	0.00000	

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst: G.N.T.H

Date : 2008-07-01
Time : 12.56

Test Unit Total CN 335.419012 mg/l

Sample ID:	Resp.	Result	Man.dilut Dilut	Date and Time
1 ICV-TCN	0.652	0.71873		2008-07-01 08.58
2 ICB-TCN	0.006	0.00105		2008-07-01 08.58
3 CCV-TCN	0.615	0.67826		2008-07-01 09.24
4 CCB-TCN	0.006	0.00103		2008-07-01 09.24
PB 1	0.008	0.00281		2008-07-01 09.24
LCS-LL 1	0.089	0.09330		2008-07-01 09.24
LCS-HL 1	0.372	0.40798		2008-07-01 09.24
R1109355	0.005	-0.00016		2008-07-01 09.24
355 DUP	0.006	0.00156		2008-07-01 09.24
355 SPK	0.090	0.09474		2008-07-01 09.24
R1109356	0.005	0.00034		2008-07-01 09.24
R1111264	-0.077	-0.09152	matrix issues redshift @ intention	2008-07-01 09.24
R1111265	0.038	0.03652		2008-07-01 09.24
R1111266	0.039	0.03794		2008-07-01 09.31
3 CCV-TCN	0.597	0.65762		2008-07-01 09.31
4 CCB-TCN	0.007	0.00232		2008-07-01 09.31
R1111267	0.028	0.02547		2008-07-01 09.31
R1111763	0.025	0.02238		2008-07-01 09.31
R1111764	0.040	0.03935		2008-07-01 09.31
R1111765	0.003	-0.00268		2008-07-01 09.31
R1112065	0.034	0.03256		2008-07-01 09.31
R1112066	0.039	0.03763		2008-07-01 09.31
R1112067	0.004	-0.00073		2008-07-01 09.31
R1112486	0.003	-0.00178		2008-07-01 09.31
486 DUP	0.004	-0.00146		2008-07-01 09.39
486 SPK	0.006	0.00150		2008-07-01 09.39
3 CCV-TCN	0.613	0.67564		2008-07-01 09.39
4 CCB-TCN	0.006	0.00088		2008-07-01 09.39
R1112487	0.005	-0.00045		2008-07-01 09.39
R1112488	0.037	0.03584		2008-07-01 09.39
R1112489	0.004	-0.00086		2008-07-01 09.39
R1112809	0.005	0.00011		2008-07-01 09.39
R1112810	0.004	-0.00091		2008-07-01 09.39
R1112811	0.005	-0.00000		2008-07-01 09.39
R1112812	0.006	0.00114		2008-07-01 09.39
PB 2	0.005	0.00042		2008-07-01 09.46
LCS-LL 2	0.095	0.10029		2008-07-01 09.46
LCS-HL 2	0.375	0.41059		2008-07-01 09.46
3 CCV-TCN	0.585	0.64480		2008-07-01 09.46
4 CCB-TCN	0.005	0.00005		2008-07-01 09.46
R1112874	0.004	-0.00059		2008-07-01 09.46
874 DUP	0.005	-0.00024		2008-07-01 09.46
874 SPK	0.071	0.07361		2008-07-01 09.46
R1112871	0.031	0.02873		2008-07-01 09.46
R1112872	0.030	0.02802		2008-07-01 09.46
R1112950	0.023	0.01984		2008-07-01 09.46
PB soil	0.005	0.00024	x50 = 1.004	2008-07-01 09.54
LCS-LL soil	0.093	0.09808	x50 = 4.904	2008-07-01 09.54
LCS-HL soil	0.380	0.41718	x50 = 20.859	2008-07-01 09.54
R1112361	0.005	-0.00014		2008-07-01 09.54
3 CCV-TCN	0.611	0.67355		2008-07-01 09.54

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst: CN:ITA

Date : 2008-07-01
Time : 12.56

Test Unit	Resp.	Result	Man.dilut Dilut	Date and Time
			Total CN 9012 / 335.4 mg/l	
4 CCB-TCN	0.006	0.00069		2008-07-01 09.54
R1112362	0.005	0.00028	x46.76 < 1.00	2008-07-01 09.54
362 DUP	0.005	0.00043	x 45.05 < 1.00	2008-07-01 09.54
362 SPK	0.098	0.10354	x 47.17 = 4.88	2008-07-01 09.54
R1112363	0.004	-0.00137	x 46.29 < 1.00	2008-07-01 09.54
R1112364	0.005	0.00011	x 42.02 < 1.00	2008-07-01 09.54
R1112365	0.004	-0.00072	x 47.17 < 1.00	2008-07-01 10.01
R1113245	0.005	-0.00010	x 43.86 < 1.00	2008-07-01 10.01
R1113249	0.005	0.00041	x 45.45 < 1.00	2008-07-01 10.01
R1113250	0.005	0.00036	x 47.17 < 1.00	2008-07-01 10.01
250 DUP	0.006	0.00161	x 42.02 < 1.00	2008-07-01 10.01
3 CCV-TCN	0.623	0.68650		2008-07-01 10.01
4 CCB-TCN	0.006	0.00149		2008-07-01 10.01
250 SPK	0.099	0.10486	x 44.24 = 4.68	2008-07-01 10.01
R1113254	0.006	0.00080	x 42.02 < 1.00	2008-07-01 10.01
R1113255	0.006	0.00057	x 46.73 < 1.00	2008-07-01 10.01
R1113256	0.006	0.00062	x 49.50 < 1.00	2008-07-01 10.01
R1113257	0.005	0.00035	x 45.87 < 1.00	2008-07-01 10.05
R1113258	0.005	0.00056	x 48.54 < 1.00	2008-07-01 10.05
R1113259	0.005	0.00008	x 46.29 < 1.00	2008-07-01 10.05
R1113262	0.005	-0.00016	x 45.87 < 1.00	2008-07-01 10.05
3 CCV-TCN	0.654	0.72095		2008-07-01 10.08
4 CCB-TCN	0.006	0.00058		2008-07-01 10.08
3 CCV-TCN	0.632	0.69660		2008-07-01 10.28
4 CCB-TCN	0.005	0.00054		2008-07-01 10.28
R1111264 RPT STR	0.023	0.02029		2008-07-01 10.28
264 RPT 1/2	0.030	0.02750		2008-07-01 10.28
264 RPT 1/4	0.024	0.02080		2008-07-01 10.28
R111486 SPK RPT	0.003	-0.00185		2008-07-01 10.28
3 CCV-TCN	0.644	0.70944		2008-07-01 10.32
4 CCB-TCN	0.005	-0.00034		2008-07-01 10.32
3 CCV-TCN	0.634	0.69851		2008-07-01 11.18
4 CCB-TCN	0.005	0.00027		2008-07-01 11.18
1111264 RPT STR	-0.051	-0.06264		2008-07-01 11.18
1111264 RPT 1/2	0.035	0.03385		2008-07-01 11.18
3 CCV-TCN	0.629	0.69303		2008-07-01 11.21
4 CCB-TCN	0.005	-0.00013		2008-07-01 11.21
3 CCV-TCN	0.647	0.71333		2008-07-01 11.58
4 CCB-TCN	0.005	0.00021		2008-07-01 11.58
1111264 RPT 1/5	0.026			-
1111264 RPT 1/10	0.023			-
3 CCV-TCN	0.627	0.69126		2008-07-01 12.01
4 CCB-TCN	0.006	0.00071		2008-07-01 12.01
3 CCV-TCN	0.629	0.69372		2008-07-01 12.23
4 CCB-TCN	0.008	0.00373		2008-07-01 12.23
1111264 RPT 1/5	0.027	0.02496		2008-07-01 12.23
1111264 RPT 1/10	0.023	0.02050		2008-07-01 12.23
3 CCV-TCN	0.606	0.66793		2008-07-01 12.26
4 CCB-TCN	0.005	0.00041		2008-07-01 12.26

confirm the original
not needed
used to
confirm
matrix issue
1111264
not reported
low
matrix
spike
recovery
CHM/lob

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst: *GN*

01.07.2008 12:30

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
1 ICB-TCN	0.71873	0.0	0.652	
2 ICB-TCN	0.00105	0.0	0.006	
3 CCV-TCN	0.67826	0.0	0.615	
4 CCB-TCN	0.00103	0.0	0.006	
PB 1	0.00281	0.0	0.008	
LCS-LL 1	0.09330	0.0	0.089	
LCS-HL 1	0.40798	0.0	0.372	
R1109355	-0.00016	0.0	0.005	
355 DUP	0.00156	0.0	0.006	
355 SPK	0.09474	0.0	0.090	
R1109356	0.00034	0.0	0.005	
R1111264	-0.09152	0.0	-0.077	
R1111265	0.03652	0.0	0.038	
R1111266	0.03794	0.0	0.039	
3 CCV-TCN	0.65762	0.0	0.597	
4 CCB-TCN	0.00232	0.0	0.007	
R1111267	0.02547	0.0	0.028	
R1111763	0.02238	0.0	0.025	
R1111764	0.03935	0.0	0.040	
R1111765	-0.00268	0.0	0.003	
R1112065	0.03256	0.0	0.034	
R1112066	0.03763	0.0	0.039	
R1112067	-0.00073	0.0	0.004	
R1112486	-0.00178	0.0	0.003	
486 DUP	-0.00146	0.0	0.004	
486 SPK	0.00150	0.0	0.006	
3 CCV-TCN	0.67564	0.0	0.613	
4 CCB-TCN	0.00088	0.0	0.006	
R1112487	-0.00045	0.0	0.005	
R1112488	0.03584	0.0	0.037	
R1112489	-0.00086	0.0	0.004	
R1112809	0.00011	0.0	0.005	
R1112810	-0.00091	0.0	0.004	
R1112811	-0.00000	0.0	0.005	
R1112812	0.00114	0.0	0.006	
PB 2	0.00042	0.0	0.005	
LCS-LL 2	0.10029	0.0	0.095	
LCS-HL 2	0.41059	0.0	0.375	
3 CCV-TCN	0.64480	0.0	0.585	
4 CCB-TCN	0.00005	0.0	0.005	
R1112874	-0.00059	0.0	0.004	
874 DUP	-0.00024	0.0	0.005	
874 SPK	0.07361	0.0	0.071	
R1112871	0.02873	0.0	0.031	
R1112872	0.02802	0.0	0.030	
R1112950	0.01984	0.0	0.023	
PB soil	0.00024	0.0	0.005	
LCS-LL soil	0.09808	0.0	0.093	
LCS-HL soil	0.41718	0.0	0.380	
R1112361	-0.00014	0.0	0.005	
3 CCV-TCN	0.67355	0.0	0.611	
4 CCB-TCN	0.00069	0.0	0.006	
R1112362	0.00028	0.0	0.005	
362 DUP	0.00043	0.0	0.005	
362 SPK	0.10354	0.0	0.098	

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst: GN

01.07.2008 12:30

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
R1112363	-0.00137	0.0	0.004	
R1112364	0.00011	0.0	0.005	
R1112365	-0.00072	0.0	0.004	
R1113245	-0.00010	0.0	0.005	
R1113249	0.00041	0.0	0.005	
R1113250	0.00036	0.0	0.005	
250 DUP	0.00161	0.0	0.006	
3 CCV-TCN	0.68650	0.0	0.623	
4 CCB-TCN	0.00149	0.0	0.006	
250 SPK	0.10486	0.0	0.099	
R1113254	0.00080	0.0	0.006	
R1113255	0.00057	0.0	0.006	
R1113256	0.00062	0.0	0.006	
R1113257	0.00035	0.0	0.005	
R1113258	0.00056	0.0	0.005	
R1113259	0.00008	0.0	0.005	
R1113262	-0.00016	0.0	0.005	
3 CCV-TCN	0.72095	0.0	0.654	
4 CCB-TCN	0.00058	0.0	0.006	
3 CCV-TCN	0.69660	0.0	0.632	
4 CCB-TCN	0.00054	0.0	0.005	
R1111264 RPT STR	0.02029	0.0	0.023	
264 RPT 1/2	0.02750	0.0	0.030	
264 RPT 1/4	0.02080	0.0	0.024	
R111486 SPK RPT	-0.00185	0.0	0.003	
3 CCV-TCN	0.70944	0.0	0.644	
4 CCB-TCN	-0.00034	0.0	0.005	
3 CCV-TCN	0.69851	0.0	0.634	
4 CCB-TCN	0.00027	0.0	0.005	
1111264 RPT STR	-0.06264	0.0	-0.051	
1111264 RPT 1/2	0.03385	0.0	0.035	
3 CCV-TCN	0.69303	0.0	0.629	
4 CCB-TCN	-0.00013	0.0	0.005	
3 CCV-TCN	0.71333	0.0	0.647	
4 CCB-TCN	0.00021	0.0	0.005	
1111264 RPT 1/5	0.02381	0.0	0.026	
1111264 RPT 1/10	0.01950	0.0	0.023	
3 CCV-TCN	0.69126	0.0	0.627	
4 CCB-TCN	0.00071	0.0	0.006	
3 CCV-TCN	0.69372	0.0	0.629	
4 CCB-TCN	0.00373	0.0	0.008	
1111264 RPT 1/5	0.02496	0.0	0.027	
1111264 RPT 1/10	0.02050	0.0	0.023	
3 CCV-TCN	0.66793	0.0	0.606	
4 CCB-TCN	0.00041	0.0	0.005	

N 68
Mean 0.03361
SD 0.088526
CV% 263.38

Analyst: GNITA

Distillation Date: 6/30/08

Analysis: Total Cyanide Instrument: AquaKem 200

Analyzer Date: 7/01/08

Quality Control:

	Same as Log #, Date	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol mLs	True Value (mg/L)
a) Stds. Prep. :	WC85134D, 4/3/08				
10 ppm Working Stock:	WC85134B, 4/3/08	1.022	978.432	100	10.0
b) I/CCV (Ref.) Prep.:	WC85134E, 4/3/08	0.7	10	10	0.700
10 ppm Working Stock:	WC85134C, 4/3/08	1.002	998.4	100	10.0
c) LCS (water) Prep:	WC69160D, 8/02/04	2.0	10	50	0.4
LCS (water) Prep:	WC69160C, 8/02/04	0.5	10	50mls	0.1
LCS (soil) Prep. :	WC69160D, 8/02/04	2.0	10	~1 g.	~ 20 (see bench sheet)
LCS (soil) Prep:	WC69160C, 8/02/04	0.5	10	~1 g.	~ 5 (see bench sheet)
d) Mtx Spk (water) Prep:	WC69160E, 8/02/04	0.5	10	50	0.1
Mtx Spk (soil) Prep:	WC69160E, 8/02/04	0.5	10	~1 g.	~5 (see bench sheet)

Method Reference: 335.2 EPA 600; 9010A,9012 EPA SW-846; 335.2 CLP-M NYSASP

Instrument log filled in? (Y)(N)

Stock Prep:

1000 mg/L TCN Std. Stock prepared 7/20/07, WC85007E, standardized 1/18/08, WC87007A
1000 mg/L TCN Ref. Stock prepared 7/20/07, WC85007F, standardized 1/18/08, WC87007B

10 mg/L Std. And Ref. working stocks are prepared weekly using the above stock solutions, diluting to volume with 0.25N NaOH

0.25N NaOH, fresh daily: 26.14 mL 50% w/w NaOH WC85011C diluted to 2 L with DI

Reagents, Distillation:	Log Book #	Comments
Sulfamic Acid	WC85133H	
Sulfuric Acid, 1:1	WC85153E	
Magnesium Chloride	WC85133 WC85170A	6N 6/30/08
Calcium Hypochlorite	N/A	
Ascorbic Acid	N/A	
Acetate Buffer	N/A	
Zinc Acetate	N/A	
Acetic Acid	N/A	
Cadmium Carbonate	WC76081J	
Anti-foam	N/A	

Reagents, Autoanalyzer:		
Buffer	WC85018C	
Pyridine Barbituric Acid	WC76296J	

Chloramine-T, fresh daily: 2.00 g Chloramine-T WC76197G diluted to 200 mL with DI

4/3/08

(A) 0.25N NaOH

26.14 mls conc. NaOH (WC85011C) → 2 Liters w/ DI.
Fresh per run.

(B) 10ppm TCN Std. Stock

1.022 mls of the 978.432 ppm TCN Std. Stock (WC85007E)
→ 100 mls w/ 0.25N NaOH (WC85134A)

(C) 10ppm TCN Ref. Stock

1.002 mls of the 998.4 ppm TCN Ref. Stock (WC85007F)
→ 100 mls w/ 0.25N NaOH (WC85134A)

(D) TCN Calibration Stds. Fresh per run

conc.	mls 10ppm TCN Std. Stock (WC85134B)	mls 0.25N NaOH
1.00	1.0	9.0
0.50	0.50	9.50
0.20	0.20	9.80
0.10	1/10 dilution of 1.00 ppm Std	
0.05	1/10 dilution of 0.50 ppm Std	
0.02	1/10 dilution of 0.20 ppm Std	
0.01	1/10 dilution of 0.10 ppm Std	
0.00	0.00	10.0

(E) 10V/CCV TV=0.70 Fresh per run

0.70 mls 10ppm TCN Ref. Stock (WC85134C) + 9.30 mls
0.25N NaOH (WC85134A)

(F)

8/2/04 TCN Distillation

cmw

Ⓐ 0.25N NaOH

40.0mLs NaOH (WC69074F, EMLot # 3321) →
2 Liters w/ DI. Make fresh each run.

Ⓑ TCN 10ppm working stock (for LCS/ms/Standards)

1.020 mL TCN Std. Stock #1 (WC69154D), Standardization
WC71016A → 100mL w/ 0.25 NaOH (WC69160A),
Prepare fresh weekly. Store in amber glass @ 4°C.

Ⓒ TCN Low Level LCS:

Add 0.50mL 10ppm working Standard Stock (WC69160B)
to 50mL DI. TV=0.100ppm. For soils, add 1.0g
Ottawa sand to 50.0mL DI and 0.50mL 10ppm
Standard working stock (WC69160B). TV=5.0ppm.

Ⓓ TCN High Level LCS:

Add 2.0mL 10ppm Standard working stock (WC69160B)
to 50mL DI. TV=0.400ppm. For soils, add 1.0g
Ottawa sand to 50mL DI and 2.0mL 10ppm
Standard working stock (WC69160B). TV=20.0ppm.

Ⓔ TCN matrix Spike

Add 0.50mLs 10ppm Standard Working Stock (WC69160B)
to 50.0mL sample. TV=0.100ppm. For soils, 1.0g sample
to 50.0mL DI and 0.50mL 10ppm Standard working
stock (WC69160B). TV=50ppm

Ⓕ TCN 10ppm Reference Working Stock

Add 1.002mL TCN Ref. Stock #2 (WC69154E) Standardization
WC71016B → 100mLs w/ 0.25N NaOH (WC69160A). Prep fresh
weekly. Store in amber glass @ 4°C.

cmw 8/2/04

8/2/04

cmw

Ⓐ TC
Conc

- 0
- 0
- 0
- 0
- 0.1
- 0.0
- 0.0
- 0.0
- 0.0
- 0

Ⓑ CC

• Add
to 9,
10 cc

8/3/04

CB

Ⓒ TDS 7
0.9120g
DI H₂O
bottle

8/3/04

GN

Ⓓ Pos. it
Same

8/3/04

cmw

Ⓔ 10%
Same

8/3/04

cmw

Ⓕ Phend
Same

8/3/04
JST

Ⓖ Res'd Fe
- Sam

8/4/04
DK

Ⓗ Total S
460.00
DI 1
alas

7/20/07 Received from VWB

BB

- (A) 3 x 500g Sodium Persulfate, Cat # V035-07, JT Baker Lot # E03617, CAS # 7775-27-1. Store @ RT. Expires 7/20/10
- (B) (1) x 100mL Ferric Indicator, Cat # H119-01, Mallinckrodt Lot # E22433, CAS # 7720-76-7, 66-71-7. Store @ R.T. Expires 7/20/10

76765C)
POI.
8/19/07

diluted
+ fresh

mand + cl. Residual
(WC76286E) 0.1N
pires 2 weeks 8/3/07.

Received from Fisher

- (C) (1) x 1 L AquaStar Comp-5, Cat # AX1698A-6, EMD Lot # 46340, CAS #s 109-86-4, 288-32-4, 7553-56-2, 7446-69-5. Store in flammable cabinet. Expires 7/20/10
- (D) (1) x 500mL Silver Nitrate, 0.0192N, Cat # ^{LC22630-1} ~~7158-18~~ 7104, Lab Chem Lot # 7158-18, CAS # 7761-88-8. Store @ 4°C. Expires 6/13/08

7/20/07
BB

(E) 1000ppm TAN Stock #1: Standard Stock

To a tared 500mL volumetric flask, add:
1.26g KCN (WC76005C)
1.00g KOH (WC76005D)
~ 400 mL DI

Dissolve and bring to volume w/DI. Standardize and store @ 4°C in amber glass. Expires 7/20/08.

nd
in 1L w/DI

mand
(WC76285F) to
un and standardize

(F) 1000ppm TAN Stock #2: Reference Stock

To a tared 500mL volumetric flask, add:
1.26g KCN (WC76007B)
1.00g KOH (WC76005D)
~ 400mL DI

Dissolve and bring to volume w/DI. Standardize and store @ 4°C in amber glass. Expires 7/20/08

m 100 mL

7/20/07
BB

(G) Rhodamine Indicator Sol'n

Dissolve 0.020g 5-(4-DMAB) Rhodamine (WC76015E) in 100mL Acetone (WC76060F). Store in glass @ R.T. Expires 7/20/08

turn.
Store @ 4°C.

K981350.11
pires 7/1/08

Run #: 163296

Analyte: TOTAL CN 9012.TOT TOTAL CYANIDE BY SW-846 9012A

Printed: 07/03/08 15:35

R44650
R44768
R44797
R44538
40000

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114909	WATER	0.699	1.0	0.0100	99.9		07/03/2008		
BLK1		1114910	WATER	0.0100	U	1.0	0.0100		07/03/2008		
BLK2		1114911	WATER	0.0100	U	1.0	0.0100		07/03/2008		
SPKB		1114912	WATER	0.0973		1.0	0.0100	97.3	07/03/2008		
SPKB		1114913	WATER	0.402		1.0	0.0100	100.4	07/03/2008		
ESMP	R2844650	1113427	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844650	1113428	WATER	0.0151		1.0	0.0100		07/03/2008		ASPB
ESMP	R2844650	1113429	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844650	1113430	WATER	0.0256		1.0	0.0100		07/03/2008		ASPB
ESMP	R2844768	1113695	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844768	1113696	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844768	1113697	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844768	1113698	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844768	1113699	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
LDUP		1114914	WATER	0.0100	U	1.0	0.0100		07/03/2008		
SPK1		1114915	WATER	0.0788		1.0	0.0100	78.8	07/03/2008		
ESMP	R2844797	1114366	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008		ASPB
ESMP	R2844797	1114376	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008		ASPB
ESMP	R2844797	1114379	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008		ASPB
ESMP	R2844797	1114380	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008	QC	ASPB
LDUP		1114916	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008		
SPK1		1114917	SOIL/SEDIME	3.96		1.0	1.00	81.6	07/03/2008		
SPKS		1114918	SOIL/SEDIME	4.45		1.0	1.00	89.0	07/03/2008		
SPKS		1114919	SOIL/SEDIME	19.0		1.0	1.00	94.9	07/03/2008		
ESMP	R2844797	1114382	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008		ASPB
ESMP	R2844538	1111264	WATER	0.0200	U	2.0	0.0100		07/03/2008	RUN	ASPB
ADULTS		1115427	SOIL/SED	1.00	U						

Records printed: 26

Reviewed & Approved

By: CH

Date: 7/8/08

Midi-Cyanide Distillation Sheet

Stock ppm: 978.432

Date Std'n: 11/8/07

10 ppm Spike Solution:

Date made: 6/30/07

mL used: 1.022

Pipette ID: TY

Analyst: GN/TP

Date: 7/2/07

Chiller Temp: 7°C

Midi Block #1 Temp: 12°C

Midi Block #2 Temp: 12°C

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1	Prep Blk	water		50	50	335.4/9012	N/A	N/A	
2	LCS-LL	water		50	50	335.4/9012	N/A	N/A	+0.525 of 10ppm
3	LCS-HL	water		50	50	335.4/9012	N/A	N/A	+2.025 of 10ppm
4		R44650	1113426	50	50	9012	≥12	-	
5			426 DUP	50	50	9012	≥12	-	
6			426 SPK	50	50	9012	≥12	-	+0.525 of 10ppm
7			1113427	50	50	9012	≥12	-	
8			1113428	50	50	9012	≥12	-	
9			1113429	50	50	9012	≥12	-	
10			1113430	50	50	9012	≥12	-	
11		R44768	1113695	50	50	9012	≥12	-	
12			1113696	50	50	9012	8	-	
13			1113697	50	50	9012	≥12	-	
14			1113698	50	50	9012	≥12	-	
15			1113699	50	50	9012	≥12	-	
16			699 DUP	50	50	9012	≥12	-	
17			699 SPK	50	50	9012	≥12	-	+0.525 of 10ppm
18			1111264	25	50	9012	≥12	-	
19			1111264	10	50	9012	≥12	-	
20		GN	7/2/07		50				

Midi-Cyanide Distillation Sheet

Analyst: GN

Date: 7/2/07

Chiller Temp: 9°C

Midi Block #1 Temp: 12°C

Midi Block #2 Temp: 12°C

Stock ppm: _____

Date Std'n: _____

10 ppm Spike Solution: _____

Date made: _____

mL used: _____

Pipette ID: _____

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1		R44804	1114423	50	50	9012	7.12	-	
2		R44803	1114421	50	50	9012	7.12	-	
3			421 DUP	50	50	9012	7.12	-	
4			421 SPK	50	50	9012	7.12	-	+0.5mls of 10ppm
5			1114420	50	50	9012	7.12	-	
6			1114419	50	50	9012	7.12	-	
7	Prep Blk	soil		1.00	50	9012	N/A	-	
8	LCS-LL	soil		1.00	50	9012	N/A	-	+0.5mls of 10ppm
9	LCS-HL	soil		1.00	50	9012	N/A	-	+2.0mls of 10ppm
10		R44797	1114380	1.05	50	9012	N/A	-	
11			380 DUP	1.09	50	9012	N/A	-	
12			380 SPK	1.03	50	9012	N/A	-	+0.5mls of 10ppm
13			1114366	1.07	50	9012	N/A	-	
14			1114376	1.01	50	9012	N/A	-	
15			1114379	1.10	50	9012	N/A	-	
16			1114382	1.13	50	9012	N/A	-	
17					50				
18					50				
19					50				
20					50				

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200
 Analyst: GNITA

03.07.2008 11:24

Test Total CN 368.1

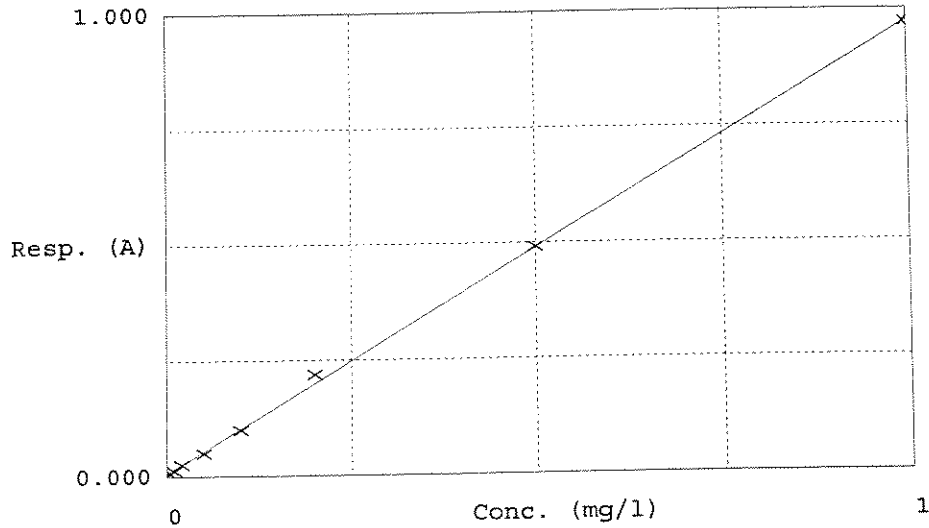
*Pipets used: Wondor Wotan
 Spidernauer*

Accepted 03.07.2008 11:24

Factor 1.03346
 Bias 0.00632

Coeff. of det. 0.999468

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.00290	-0.00353	0.00000	
2	CN-0.01	0.01211	0.00599	0.01000	
3	CN-0.02	0.02542	0.01974	0.02000	
4	CN-0.05	0.04993	0.04507	0.05000	
5	CN-0.1	0.09949	0.09629	0.10000	
6	CN-0.2	0.21870	0.21949	0.20000	
7	CN-0.5	0.49050	0.50039	0.50000	
8	CN-1	0.97062	0.99657	1.00000	
9	1 ICV-TCN(contr	0.68293	0.69925	0.70000	
10	2 ICB-TCN(contr	0.00335	-0.00307	0.00000	

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst: GNT/TA

Date : 2008-07-03
Time : 13.36

Test Unit	Resp.	Result	Man.dilut Dilut	Date and Time
1 ICV-TCN	0.683	0.69925		2008-07-03 11.16
2 ICB-TCN	0.003	-0.00307		2008-07-03 11.16
3 CCV-TCN	0.679	0.69547		2008-07-03 11.55
4 CCB-TCN	0.006	-0.00061		2008-07-03 11.55
PB	0.004	-0.00217		2008-07-03 11.55
LCS-LL	0.100	0.09728		2008-07-03 11.55
LCS-HL	0.395	0.40169		2008-07-03 11.55
1113426	-0.411	-0.43091	} Redistill @ dil	2008-07-03 11.55
426 DUP	-0.422	-0.44247		2008-07-03 11.55
426 SPK	-0.045	-0.05334		2008-07-03 11.55
1113427	0.005	-0.00139		2008-07-03 11.55
1113428	0.021	0.01514		2008-07-03 11.55
1113429	0.005	-0.00166		2008-07-03 11.55
1113430	0.031	0.02559		2008-07-03 12.02
3 CCV-TCN	0.681	0.69751		2008-07-03 12.02
4 CCB-TCN	0.006	-0.00041		2008-07-03 12.02
1113695	0.005	-0.00143		2008-07-03 12.02
1113696	0.005	-0.00120		2008-07-03 12.02
111697 1113697	0.005	-0.00180		2008-07-03 12.02
1113698	0.004	-0.00280		2008-07-03 12.02
1113699	0.004	-0.00243		2008-07-03 12.02
699 DUP	0.003	-0.00302		2008-07-03 12.02
699 SPK	0.083	0.07883		2008-07-03 12.02
1111264 (1)	0.013	0.00695	*2 = 0.0139 (see distillation sheet)	2008-07-03 12.10
1111264 (2)	0.004	-0.00204		2008-07-03 12.10
1114423	0.005	-0.00133		2008-07-03 12.10
3 CCV-TCN	0.683	0.69911		2008-07-03 12.10
4 CCB-TCN	0.006	-0.00074		2008-07-03 12.10
1114421	-0.549	-0.57429	} Redistill @ dil	2008-07-03 12.10
421 DUP	-0.553	-0.57824		2008-07-03 12.10
421 SPK	-0.273	-0.28868		2008-07-03 12.10
1114420	-0.502	-0.52525		2008-07-03 12.10
1114419	-0.494	-0.51744		2008-07-03 12.10
PB soil	0.004	-0.00241		2008-07-03 12.10
LCS -LL soil	0.087	RPT		-
LCS-HL soil	0.374	0.37973	*50 = 18.98650	2008-07-03 12.17
1114380	0.004	-0.00199		2008-07-03 12.17
380 DUP	0.006	-0.00068		2008-07-03 12.17
3 CCV-TCN	0.683	0.69952		2008-07-03 12.17
4 CCB-TCN	0.005	-0.00115		2008-07-03 12.17
380 SPK	0.085	0.08153	*48.54 = 3.9577	2008-07-03 12.17
1114366	0.003	-0.00347		2008-07-03 12.17
1114376	0.005	-0.00174		2008-07-03 12.17
1114379	0.005	-0.00184		2008-07-03 12.17
1114382	0.005	-0.00107		2008-07-03 12.17
3 CCV-TCN	0.729	0.74732		2008-07-03 12.20
4 CCB-TCN	0.004	-0.00200		2008-07-03 12.20
LCS -LL soil	0.092	0.08901	*50 = 4.45050	2008-07-03 12.24
3 CCV-TCN	0.731	0.74918		2008-07-03 12.28
4 CCB-TCN	0.004	-0.00243		2008-07-03 12.28
3 CCV-TCN	0.672	0.68793		2008-07-03 13.16

365.1

*7805

} Redistill @ dil

} Redistill @ dil

*2 = 0.0139 (see distillation sheet)

*50 = 18.98650

*48.54 = 3.9577

*50 = 4.45050

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst: *GN*

03.07.2008 13:28

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
1 ICB-TCN	0.69925	0.0	0.683	
2 ICB-TCN	-0.00307	0.0	0.003	
3 CCV-TCN	0.69547	0.0	0.679	
4 CCB-TCN	-0.00061	0.0	0.006	
PB	-0.00217	0.0	0.004	
LCS-LL	0.09728	0.0	0.100	
LCS-HL	0.40169	0.0	0.395	
1113426	-0.43091	0.0	-0.411	
426 DUP	-0.44247	0.0	-0.422	
426 SPK	-0.05334	0.0	-0.045	
1113427	-0.00139	0.0	0.005	
1113428	0.01514	0.0	0.021	
1113429	-0.00166	0.0	0.005	
1113430	0.02559	0.0	0.031	
3 CCV-TCN	0.69751	0.0	0.681	
4 CCB-TCN	-0.00041	0.0	0.006	
1113695	-0.00143	0.0	0.005	
1113696	-0.00120	0.0	0.005	
111697	-0.00180	0.0	0.005	
1113698	-0.00280	0.0	0.004	
1113699	-0.00243	0.0	0.004	
699 DUP	-0.00302	0.0	0.003	
699 SPK	0.07883	0.0	0.083	
1111264 (1)	0.00695	0.0	0.013	
1111264 (2)	-0.00204	0.0	0.004	
1114423	-0.00133	0.0	0.005	
3 CCV-TCN	0.69911	0.0	0.683	
4 CCB-TCN	-0.00074	0.0	0.006	
1114421	-0.57429	0.0	-0.549	
421 DUP	-0.57824	0.0	-0.553	
421 SPK	-0.28868	0.0	-0.273	
1114420	-0.52525	0.0	-0.502	
1114419	-0.51744	0.0	-0.494	
PB soil	-0.00241	0.0	0.004	
LCS -LL soil	0.08308	0.0	0.087	
LCS-HL soil	0.37973	0.0	0.374	
1114380	-0.00199	0.0	0.004	
380 DUP	-0.00068	0.0	0.006	
3 CCV-TCN	0.69952	0.0	0.683	
4 CCB-TCN	-0.00115	0.0	0.005	
380 SPK	0.08153	0.0	0.085	
1114366	-0.00347	0.0	0.003	
1114376	-0.00174	0.0	0.005	
1114379	-0.00184	0.0	0.005	
1114382	-0.00107	0.0	0.005	
3 CCV-TCN	0.74732	0.0	0.729	
4 CCB-TCN	-0.00200	0.0	0.004	
LCS -LL soil	0.08901	0.0	0.092	
3 CCV-TCN	0.74918	0.0	0.731	
4 CCB-TCN	-0.00243	0.0	0.004	
3 CCV-TCN	0.68793	0.0	0.672	
4 CCB-TCN	-0.00210	0.0	0.004	
1113426 RPT1/40	0.02217	0.0	0.028	
1113426 RPT1/100	0.01199	0.0	0.018	
1114421 RPT1/40	0.01957	0.0	0.025	

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst: GN

03.07.2008 13:28

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
1114421 RPT1/100	0.01741	0.0	0.023	
1114420 RPT1/40	0.01658	0.0	0.022	
1114420 RPT1/100	0.01935	0.0	0.025	
1114419 RPT1/40	0.02104	0.0	0.027	
1114419 RPT1/100	0.00379	0.0	0.010	
3 CCV-TCN	0.74220	0.0	0.724	
4 CCB-TCN	-0.00219	0.0	0.004	

N 44
Mean -0.04669
SD 0.211620
CV% 453.25

Analyst: GNITA

Distillation Date: 7/2/07

Analysis: Total Cyanide Instrument: AquaKem 200

Analyzer Date: 7/03/07

Quality Control:

	Same as Log #, Date	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol mLs	True Value (mg/L)
a) Stds. Prep. :	WC85134D, 4/3/08				
10 ppm Working Stock:	WC85134B, 4/3/08	1.022	978.432	100	10.0
b) I/CCV (Ref.) Prep.:	WC85134E, 4/3/08	0.7	10	10	0.700
10 ppm Working Stock:	WC85134C, 4/3/08	1.002	998.4	100	10.0
c) LCS (water) Prep:	WC69160D, 8/02/04	2.0	10	50	0.4
LCS (water) Prep:	WC69160C, 8/02/04	0.5	10	50mls	0.1
LCS (soil) Prep. :	WC69160D, 8/02/04	2.0	10	~1 g.	~ 20 (see bench sheet)
LCS (soil) Prep:	WC69160C, 8/02/04	0.5	10	~1 g.	~ 5 (see bench sheet)
d) Mtx Spk (water) Prep:	WC69160E, 8/02/04	0.5	10	50	0.1
Mtx Spk (soil) Prep:	WC69160E, 8/02/04	0.5	10	~1 g.	~5 (see bench sheet)

Method Reference: 335.2 EPA 600; 9010A,9012 EPA SW-846; 335.2 CLP-M NYSASP

Instrument log filled in? **(Y)** **(N)**

Stock Prep:

1000 mg/L TCN Std. Stock prepared 7/20/07, WC85007E, standardized 1/18/08, WC87007A
1000 mg/L TCN Ref. Stock prepared 7/20/07, WC85007F, standardized 1/18/08, WC87007B

10 mg/L Std. And Ref. working stocks are prepared weekly using the above stock solutions, diluting to volume with 0.25N NaOH

0.25N NaOH, fresh daily: 26.14 mL 50% w/w NaOH WC85011C diluted to 2 L with DI

Reagents, Distillation:	Log Book #	Comments
Sulfamic Acid	WC85171B	
Sulfuric Acid, 1:1	WC85153E	
Magnesium Chloride	WC85170A	
Calcium Hypochlorite	N/A	
Ascorbic Acid	N/A	
Acetate Buffer	N/A	
Zinc Acetate	N/A	
Acetic Acid	N/A	
Cadmium Carbonate	WC76081J	
Anti-foam	N/A	

Reagents, Autoanalyzer:		
Buffer	WC85008C	
Pyridine Barbituric Acid	WC76296J	

Chloramine-T, fresh daily: 2.00 g Chloramine-T WC76197G diluted to 200 mL with DI

413108

(A) 0.25N NaOH

26.14 mls conc. NaOH (WC85011C) → 2 Liters w/ DI.
Fresh per run.

(B) 10ppm TCN Std. Stock

1.022 mls of the 978.432 ppm TCN Std. Stock (WC85007E)
→ 100 mls w/ 0.25N NaOH (WC85134A)

(C) 10ppm TCN Ref. Stock

1.002 mls of the 998.4 ppm TCN Ref. Stock (WC85007F)
→ 100 mls w/ 0.25N NaOH (WC85134A)

(D) TCN Calibration Stds. Fresh per run

conc.	mls 10ppm TCN Std. Stock (WC85134B)	mls 0.25N NaOH
1.00	1.0	9.0
0.50	0.50	9.50
0.20	0.20	9.80
0.10	1/10 dilution of 1.00 ppm Std	
0.05	1/10 dilution of 0.50 ppm Std	
0.02	1/10 dilution of 0.20 ppm Std	
0.01	1/10 dilution of 0.10 ppm Std	
0.00	0.00	10.0

(E) ICV/CCV TV=0.70 Fresh per run

0.70 mls 10ppm TCN Ref. Stock (WC85134C) + 9.30 mls
0.25N NaOH (WC85134A)

(F)

8/2/04 TCN Distillation

cmw

(A) 0.25N NaOH

40.0 mLs NaOH (W669074F, EM Lot # 3321) →
2 Liters w/ DI. make fresh each run.

(B) TCN 10ppm working stock (for LCS/MS/STANDARDS)

1.020 mL TCN Std. Stock #1 (W669154D), Standardization
W671016A → 100 mL w/ 0.25 NaOH (W669160A).
Prepare fresh weekly. Store in amber glass @ 4°C.

(C) TCN Low Level LCS:

Add 0.50 mL 10ppm working standard stock (W669160B)
to 50 mL DI, TV = 0.100 ppm. For soils, add 1.0g
Ottawa sand to 50.0 mL DI and 0.50 mL 10ppm
standard working stock (W669160B), TV = 5.0 ppm.

(D) TCN High Level LCS:

Add 2.0 mL 10 ppm standard working stock (W669160B)
to 50 mL DI, TV = 0.400 ppm. For soils, add 1.0g
Ottawa sand to 50 mL DI and 2.0 mL 10 ppm
standard working stock (W669160B), TV = 20.0 ppm.

(E) TCN matrix Spike

Add 0.50 mLs 10ppm standard working stock (W669160B)
to 50.0 mL sample. TV = 0.100 ppm. For soils, 1.0g sample
to 50.0 mL DI and 0.50 mL 10ppm standard working
stock (W669160B), TV = 5.0 ppm

(F) TCN 10ppm Reference Working Stock

Add 1.02 mL TCN Ref. Stock #2 (W669154E) Standardization
W671016B → 100 mLs w/ 0.25N NaOH (W669160A). Prep fresh
weekly. Store in amber glass @ 4°C.

cmw 8/2/04

8/2/04
cmw

(A) TC
Conc

0
0
0
0
0.1
0.0
0.0
0.0
0.0

(B) CC

• Add
to 9,
10 cc

8/3/04
CB

(C) TDS 7
0.9120g
DI H₂O
bottle

8/3/04
GN

(D) P.H
Same

8/3/04
cmw

(E) 10%
Same

8/3/04
cmw

(F) Phend
Same

8/3/04
JIT

(G) Acid Fe
- Same

8/4/04
DK

(H) Total S
400.00
DI 1
also

7/20/07 Received from VWB

- (A) 3 x 500g Sodium Persulfate, Cat # V035-07, JT Baker Lot # E03617, CAS # 7775-27-1. Store @ RT. Expires 7/20/10
- (B) (1) x 100mL Ferric Indicator. Cat # H119-01, Mallinckrodt Lot # E22433, CAS # 7720-76-7, 66-71-7. Store @ R.T. Expires 7/20/10

76265C).
PDI.
8/19/07

Received from Fisher

- (C) (1) x 1 L AquaStar Comp-5, Cat # AX1698A-6, EMD Lot # 46340, CAS #s 109-86-4, 288-32-4, 7553-56-2, 7446-69-5. Store in flammable cabinet. Expires 7/20/10
- (D) (1) x 500mL Silver Nitrate, 0.0192N, Cat # ^{LC22630-1} ~~7158-18~~ 7158-18, Lab Chem Lot # 7158-18, CAS # 7761-88-8. Store @ 4°C. Expires 6/13/08

diluted
& fresh

mand + cl. Residual
(WC76286E) 0.1N
pires 2 weeks 8/3/07.

7/20/07
BB

- (E) 1000ppm TAN Stock #1: Standard Stock
To a tared 500mL volumetric flask, add:
1.26g KCN (WC76005C)
1.00g KOH (WC76005D)
~ 400 mL DI
Dissolve and bring to volume w/DI. Standardize and store @ 4°C in amber glass. Expires 7/20/08.

nd
in 1L w/DI

mand
(WC76285F) to
un and standardize

- (F) 1000ppm TAN Stock #2: Reference Stock
To a tared 500mL volumetric flask, add:
1.26g KCN (WC76007B)
1.00g KOH (WC76005D)
~ 400mL DI
Dissolve and bring to volume w/DI. Standardize and store @ 4°C in amber glass. Expires 7/20/08

m 100 mL

7/20/07
BB

- (G) Rhodamine Indicator Sol'n
Dissolve 0.020g 5-(4-DMAB) Rhodamine (WC76015E) in 100mL Acetone (WC76060F). Store in glass @ R.T. Expires 7/20/08

atn.
Store @ 4°C.

K98135D.11
pires 7/1/08

Run #: 163588

Analyte: TOTAL CN 9012.TOT TOTAL CYANIDE BY SW-846 9012A

Printed: 07/16/08 15:47

R44050
R44803
R44797
R44841
R44842
Scope

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
				RESULT							
CHK1		1117656	WATER	0.712	1.0	0.0100	101.7		07/10/2008		
BLK1		1117657	WATER	0.000540	1.0	0.0100			07/10/2008		
BLK2		1117658	WATER	0.000360	1.0	0.0100			07/10/2008		
BLK2		1117659	WATER	-0.000490	1.0	0.0100			07/10/2008		
SPKB		1117660	WATER	0.100	1.0	0.0100	100.1		07/10/2008		
SPKB		1117661	WATER	0.380	1.0	0.0100	95.1		07/10/2008		
ESMP	R2844650	1113426	WATER	0.151	5.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114419	WATER	-0.441	5.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114419	WATER	0.466	25.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114419	WATER	2.64	100.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114420	WATER	-0.472	5.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114420	WATER	0.459	25.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114420	WATER	3.14	100.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114421	WATER	0.0414	5.0	0.0100			07/10/2008	QC	ASPB
LDUP		1117664	WATER	-0.244	5.0	0.0100		-282	07/10/2008		
SPK1		1117665	WATER	0.105	5.0	0.0100	12.7		07/10/2008		
ESMP	R2844803	1114421	WATER	0.445	25.0	0.0100			07/10/2008	QC	ASPB
LDUP		1117674	WATER	0.456	25.0	0.0100		166.7	07/10/2008		
SPK1		1117675	WATER	0.104 0.519	25.0	0.0100	2.5		07/10/2008		
ESMP	R2844803	1114421	WATER	2.61	100.0	0.0100			07/10/2008	QC	ASPB
LDUP		1117676	WATER	3.13	100.0	0.0100		194.8	07/10/2008		
SPK1		1117677	WATER	3.17	100.0	0.0100	31.3		07/10/2008		
ESMP	R2844797	1114714	SOIL/SEDIME	0.0221	1.0	1.00			07/10/2008		ASPB
LDUP		1117670	SOIL/SEDIME	0.0322	1.0	1.00		37.23	07/10/2008		
SPK1		1117671	SOIL/SEDIME	4.75	1.0	1.00	97.9		07/10/2008		
ESMP	R2844797	1114715	SOIL/SEDIME	-0.0215	1.0	1.00			07/10/2008		ASPB
ESMP	R2844797	1114716	SOIL/SEDIME	0.00991	1.0	1.00			07/10/2008		ASPB
ESMP	R2844797	1114717	SOIL/SEDIME	0.0126	1.0	1.00			07/10/2008		ASPB
BLK5		1118214	SOIL/SEDIME	1.00	1.0	1.00			07/10/2008		
SPKS		1118217	SOIL/SEDIME	4.69	1.0	1.00	93.8		07/10/2008		
SPKS		1118223	SOIL/SEDIME	19.1	1.0	1.00	95.5		07/10/2008		
ESMP	R2844797	1114718	SOIL/SEDIME	-0.0188	1.0	1.00			07/10/2008		ASPB
ESMP	R2844803	1114756	WATER	0.00622 0.00311	5.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114758	WATER	0.000770 0.0039	5.0	0.0100			07/10/2008		ASPB

Records printed: 34

Reviewed & Approved

By: CK

Date: 7/16/08

①

Midi-Cyanide Distillation Sheet

Stock ppm: 978.432

Analyst: RP

Date Std'n: 1/18/08

Date: 7/9/08

10 ppm Spike Solution:

Chiller Temp: 11°C

Date made: 7/9/08

Midi Block #1 Temp: 125°C

mL used: 0.5, 2.0

Midi Block #2 Temp: 125°C

Pipette ID: E-1

1

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol	Method	pH	H2S +/-	Comments
1	Prep Blk	water		50	50	335.4/9012	NA	-	
2	LCS-LL	water		50	50	335.4/9012	NA	-	0.5ml Jb 10ppm
3	LCS-HL	water		50	50	335.4/9012	NA	-	2.0mls Jb 10ppm
4		R44650	R1113426	10	50	9012	10	-	
5		R44803	R1114419	10	50	9012	>12	-	
6			R1114420	10	50	9012	10	-	
7			R1114421	10	50	9012	10	-	
8			421DUP	10	50	9012	10	-	
9			421SPK	10	50	9012	10	-	0.5ml Jb 10ppm
10			R1114756	10	50	9012	10	-	
11			R1114758	10	50	9012	>12	-	
12		R44822	R1114736	50	50	335.4	>12	-	
13		R44841	R1115230	50	50	335.4	>12	-	
14			R1115231	50	50	335.4	>12	-	
15			R1115232	50	50	335.4	>12	-	
16			232DUP	50	50	335.4	>12	-	
17			232SPK	50	50	335.4	>12	-	0.5ml Jb 10ppm
18			R1115233	50	50	335.4	>12	-	
19			233DUP	50	50	335.4	>12	-	
20			233SPK	50	50	335.4	>12	-	0.5ml Jb 10ppm

Midi-Cyanide Distillation Sheet

Stock ppm: 978, 432

Analyst: RP

Date Std'n: 1/18/08

Date: 7/9/08

10 ppm Spike Solution:

Chiller Temp: 11°C

Date made: 7/9/08

Midi Block #1 Temp: 125°C

mL used: 0.5, 2.0

Midi Block #2 Temp: 125°C

Pipette ID: E-1

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol	Method	pH	H2S +/-	Comments
1		R44842	1115240	50	50	335.4	7.2		
2			1115241	50	50	335.4	7.2		
3	Prep Blk	SOIL		50	50		NA		
4	LCS-LL	SOIL		50	50		NA		
5	LCS-HL	SOIL		50	50		NA		
6	LCS-LL	SOIL		50	50		NA		FOR CDC
7	LCS-HL	SOIL		50	50		NA		FOR CDC
8		R44797	R1114714	1.02	50		6		dilution no x49.01961
9			714DUP	1.04	50		8.6		x48.27692
10			714SPK	1.03	50		6		x48.54369
11			R1114715	1.00	50		5		x50
12			R1114716	1.00	50		6		x47.16981
13			R1114717	1.03	50		5		x48.5369
14			R1114718	1.01	50		5		x49.56495
15	LCS-LL	water		50	50		NA		IDC
16	LCS-HL	water		50	50		NA		IDC
17					50				
18					50				
19					50				
20					50				

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200
 Analyst: H. (Coveg)
 Pipette: E2

10.07.2008 10:45

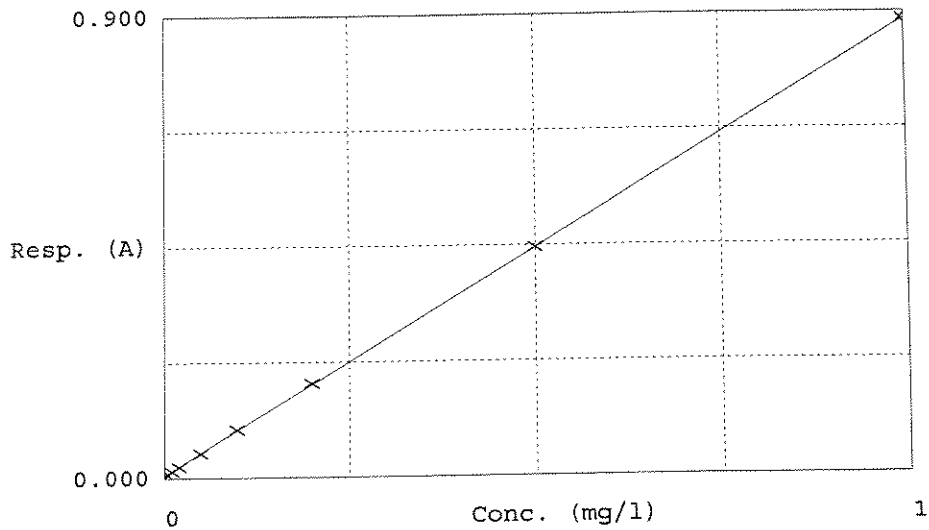
Test Total CN

Accepted 10.07.2008 10:45

Factor 1.13428
 Bias 0.00466

Coeff. of det. 0.999985

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.00424	-0.00047	0.00000	
2	CN-0.01	0.01326	0.00975	0.01000	
3	CN-0.02	0.02168	0.01930	0.02000	
4	CN-0.05	0.04724	0.04830	0.05000	
5	CN-0.1	0.09358	0.10086	0.10000	
6	CN-0.2	0.18346	0.20281	0.20000	
7	CN-0.5	0.44546	0.49999	0.50000	
8	CN-1	0.88580	0.99946	1.00000	
9	1 ICV-TCN (contr	0.63198	0.71155	0.70000	
10	2 ICB-TCN (contr	0.00514	0.00054	0.00000	

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200
 Analyst: W. Lovejoy
 Pipette: E2

Date : 2008-07-10
 Time : 14.30

Test Unit	Resp.	Result	Man.dilut Dilut	Date and Time
1 ICV-TCN	0.632	0.71155		2008-07-10 10.41
2 ICB-TCN	0.005	0.00054		2008-07-10 10.41
3 CCV-TCN	0.604	0.67982		2008-07-10 11.53
4 CCB-TCN	0.005	0.00081		2008-07-10 11.53
PREP BLK	0.005	0.00036		2008-07-10 11.53
LCS-LL 1	0.093	0.10008		2008-07-10 11.53
LCS-HL 1	0.340	0.38028		2008-07-10 11.53
R1113426	0.031	0.03023 x5 = 0.1512		2008-07-10 11.53
R1114419	-0.073	-0.08813 x5 = -0.44065		2008-07-10 11.53
R1114420	-0.079	-0.09449 x5 = -0.47245		2008-07-10 11.53
R1114421	0.012	0.00828 x5 = 0.04140		2008-07-10 11.53
R1114421 DUP	-0.038	-0.04889 x5 = -0.24445		2008-07-10 11.53
R1114421 SPK	0.023	0.02097 x5 = 0.10485		2008-07-10 11.53
R1114756	0.010	0.00622 x5 = 0.0311		2008-07-10 12.00
3 CCV-TCN	0.598	0.67338		2008-07-10 12.00
4 CCB-TCN	0.006	0.00111		2008-07-10 12.00
R1114758	0.005	0.00077 x5 = 0.0039		2008-07-10 12.00
R1114736	0.005	0.00092		2008-07-10 12.00
R1115230	0.005	0.00026		2008-07-10 12.00
R1115231	0.004	-0.00058		2008-07-10 12.00
R1115232	0.042	0.04273		2008-07-10 12.00
R1115232 DUP	0.045	0.04520		2008-07-10 12.00
R1115232 SPK	0.126	0.13814		2008-07-10 12.00
R1115233	0.005	0.00071		2008-07-10 12.00
R1115233 DUP	0.007	0.00208		2008-07-10 12.07
R1115233 SPK	0.093	0.10023		2008-07-10 12.07
3 CCV-TCN	0.593	0.66679		2008-07-10 12.07
4 CCB-TCN	0.006	0.00137		2008-07-10 12.08
R1115240	0.005	0.00020		2008-07-10 12.08
R1115241	0.005	0.00072		2008-07-10 12.08
PREP BLK SOIL	0.004	-0.00049 x5 ^b		2008-07-10 12.08
LCS-LL SOIL 1	0.087	0.09379 x5 ^b		2008-07-10 12.08
LCS-HL SOIL 1	0.342	0.38209 x5 ^b		2008-07-10 12.08
LCS-LL SOIL 2	0.089	0.09599		2008-07-10 12.08
LCS-HL SOIL 2	0.339	0.37872		2008-07-10 12.08
R1114714	0.005	0.00045 x 49.01961 = 0.02266		2008-07-10 12.15
R1114714 DUP	0.005	0.00067 x 48.67692 = 0.03221		2008-07-10 12.15
R1114714 SPK	0.091	0.09781 x 48.54369 = 4.74806		2008-07-10 12.15
3 CCV-TCN	0.580	0.65243		2008-07-10 12.15
4 CCB-TCN	0.005	0.00075		2008-07-10 12.15
R1114715	0.004	-0.00043 x50 = -0.02150		2008-07-10 12.15
R1114716	0.005	0.00021 x 47.16981 = 0.00991		2008-07-10 12.15
R1114717	0.005	0.00026 x 48.54369 = 0.01262		2008-07-10 12.15
R1114718	0.004	-0.00038 x 49.50495 = -0.01881		2008-07-10 12.15
LCS-LL 2	0.054	0.05645		2008-07-10 12.15
LCS-HL 2	0.335	0.37432		2008-07-10 12.15
3 CCV-TCN	0.601	0.67661		2008-07-10 12.18
4 CCB-TCN	0.004	-0.00019		2008-07-10 12.18
3 CCV-TCN	0.595	0.66994		2008-07-10 12.42
4 CCB-TCN	0.005	0.00047		2008-07-10 12.42
R1114419 1/5	0.021	0.01862 x25 = 0.46550		2008-07-10 12.42

no samples associated
not needed

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst:

Date : 2008-07-10
Time : 14.30

Test Unit	Resp.	Result	Man.dilut Dilut	Date and Time
R1114420 1/5	0.021	0.01835 x 25 = 0.45875		2008-07-10 12.42
R1114421 1/5	0.020	0.01781 x 25 = 0.44525		2008-07-10 12.42
R1114421 DUP 1/5	0.021	0.01823 x 25 = 0.45575		2008-07-10 12.42
R1114421 SPK 1/5	0.023	0.02077 x 25 = 0.51925 0.5193		2008-07-10 12.42
3 CCV-TCN	0.608	0.68408	0.68408	2008-07-10 12.45
4 CCB-TCN	0.005	0.00043		2008-07-10 12.45
3 CCV-TCN	0.611	0.68810		2008-07-10 14.15
4 CCB-TCN	0.006	0.00103		2008-07-10 14.15
R1114419 1/20	0.028	0.02641 x 100 = 2.641		2008-07-10 14.15
R1114420 1/20	0.032	0.03140 x 100 = 3.140		2008-07-10 14.15
R1114421 1/20	0.028	0.02613 x 100 = 2.613		2008-07-10 14.15
R1114421 DUP 1/2	0.032	0.03127 x 100 = 3.127		2008-07-10 14.15
R1114421 SPK 1/2	0.033	0.03168 x 100 = 3.168		2008-07-10 14.15
3 CCV-TCN	0.646	0.72778		2008-07-10 14.19
4 CCB-TCN	0.005	0.00015		2008-07-10 14.19

Analyst: RP

Distillation Date: 7/9/08

Analysis: Total Cyanide Instrument: AquaKem 200

Analyzer Date:

Quality Control:

	Same as Log #, Date	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol mLs	True Value (mg/L)
a) Stds. Prep. :	WC85134D, 4/3/08				
10 ppm Working Stock:	WC85134B, 4/3/08	1.022	978.432	100	10.0
b) I/CCV (Ref.) Prep.:	WC85134E, 4/3/08	0.7	10	10	0.700
10 ppm Working Stock:	WC85134C, 4/3/08	1.002	998.4	100	10.0
c) LCS (water) Prep:	WC69160D, 8/02/04	2.0	10	50	0.4
LCS (water) Prep:	WC69160C, 8/02/04	0.5	10	50mls	0.1
LCS (soil) Prep. :	WC69160D, 8/02/04	2.0	10	-1 g.	~ 20 (see bench sheet)
LCS (soil) Prep:	WC69160C, 8/02/04	0.5	10	-1 g.	~ 5 (see bench sheet)
d) Mtx Spk (water) Prep:	WC69160E, 8/02/04	0.5	10	50	0.1
Mtx Spk (soil) Prep:	WC69160E, 8/02/04	0.5	10	-1 g.	~5 (see bench sheet)

Method Reference: 335.2 EPA 600; 9010A,9012 EPA SW-846; 335.2 CLP-M NYSASP

Instrument log filled in? (Y) (N)

Stock Prep:

1000 mg/L TCN Std. Stock prepared 7/20/07, WC85007E, standardized 1/18/08, WC87007A
1000 mg/L TCN Ref. Stock prepared 7/20/07, WC85007F, standardized 1/18/08, WC87007B

10 mg/L Std. And Ref. working stocks are prepared weekly using the above stock solutions, diluting to volume with 0.25N NaOH

0.25N NaOH, fresh daily: 26.14 mL 50% w/w NaOH WC85011C diluted to 2 L with DI

Reagents, Distillation:	Log Book #	Comments
Sulfamic Acid	WC85171B	
Sulfuric Acid, 1:1	WC85153F	
Magnesium Chloride	WC8517012	
Calcium Hypochlorite	NA	
Ascorbic Acid	NA	
Acetate Buffer	NA	
Zinc Acetate	NA	
Acetic Acid	NA	
Cadmium Carbonate	WC76081J	
Anti-foam	WC85064B	

Reagents, Autoanalyzer:		
Buffer		
Pyridine Barbituric Acid		

Chloramine-T, fresh daily: 2.00 g Chloramine-T WC76197G diluted to 200 mL with DI

413108

① 0.25 N NaOH

26.14 mls conc. NaOH (WC85011C) → 2 Liters w/ DI.
Fresh per run.

② 10ppm TCN Std. Stock

1.022 mls of the 978.432 ppm TCN Std. Stock (WC85007E)
→ 100 mls w/ 0.25N NaOH (WC85134A)

③ 10ppm TCN Ref. Stock

1.002 mls of the 998.4 ppm TCN Ref. Stock (WC85007F)
→ 100 mls w/ 0.25N NaOH (WC85134A)

④ TCN Calibration Stds. Fresh per run

conc.	mls 10ppm TCN Std. Stock (WC85134B)	mls 0.25N NaOH
1.00	1.0	9.0
0.50	0.50	9.50
0.20	0.20	9.80
0.10	1/10 dilution of 1.00 ppm Std	
0.05	1/10 dilution of 0.50 ppm Std	
0.02	1/10 dilution of 0.20 ppm Std	
0.01	1/10 dilution of 0.10 ppm Std	
0.00	0.00	10.0

⑤ ICV/CCV TV=0.70 Fresh per run

0.70 mls 10ppm TCN Ref. Stock (WC85134C) + 9.30 mls
0.25N NaOH (WC85134A)

⑥

8/2/04 TCN Distillation

cmw

Ⓐ 0.25N NaOH

40.0 mLs NaOH (WC69074F, EMLot # 3321) →
2 Liters w/ DI. Make fresh each run.

Ⓑ TCN 10ppm working stock (for LCS/ms/STANDARDS)

1.020 mL TCN Std. Stock #1 (WC69154D), Standardization
WC71016A → 100 mL w/ 0.25 NaOH (WC69160A),
Prepare fresh weekly. Store in amber glass @ 4°C.

Ⓒ TCN Low Level LCS:

Add 0.50 mL 10ppm working Standard Stock (WC69160B)
to 50 mL DI. TV = 0.100 ppm. For soils, add 1.0g
Ottawa sand to 50.0 mL DI and 0.50 mL 10ppm
Standard working stock (WC69160B). TV = 5.0 ppm.

Ⓓ TCN High Level LCS:

Add 2.0 mL 10 ppm Standard working stock (WC69160B)
to 50 mL DI. TV = 0.400 ppm. For soils, add 1.0g
Ottawa sand to 50 mL DI and 2.0 mL 10 ppm
Standard working stock (WC69160B). TV = 20.0 ppm.

Ⓔ TCN matrix Spike

Add 0.50 mLs 10ppm Standard Working Stock (WC69160B)
to 50.0 mL sample. TV = 0.100 ppm. For soils, 1.0g sample
to 50.0 mL DI and 0.50 mL 10ppm Standard working
stock (WC69160B). TV = 50 ppm

Ⓕ TCN 10ppm Reference Working Stock

Add 1.002 mL TCN Ref. Stock #2 (WC69154E) Standardization
WC71016B → 100 mLs w/ 0.25N NaOH (WC69160A). Prep fresh
weekly. Store in amber glass @ 4°C.

cmw 8/2/04

8/2/04
cmw

Ⓐ TC
Conc

- 0
- 0
- 0
- 0
- 0.1
- 0.0
- 0.0
- 0.0
- 0

Ⓑ CC

• Add
to 9,
10 sci

8/3/04
CB

Ⓒ TDS 7
0.9120g
DI H₂O
bottle

8/3/04
GN

Ⓓ Phos
Same

8/3/04
cmw

Ⓔ 10%
Same

8/3/04
cmw

Ⓕ Phend
Same

8/3/04
JST

Ⓖ Resid Fr
- San

8/4/04
DK

Ⓗ Total S
400.00
DI 1
alab.

7/20/07 Received from VWR

BB

(A) 3 x 500g Sodium Persulfate, Lot # V035-07, JT Baker Lot # E03617, CAS # 7775-27-1. Store @ RT. Expires 7/20/10

(B) (1) x 100mL Ferric Indicator, Lot # H119-01, Mallinckrodt Lot # E22433, CAS # 7720-76-7, 66-71-7. Store @ R.T. Expires 7/20/10

Received from Fisher

(C) (1) x 1 L Aquastar Comp-5, Lot # AX1698A-6, END Lot # 46340, CAS #s 109-86-4, 288-32-4, 7553-56-2, 7446-09-5. Store in flammable cabinet. Expires 7/20/10

(D) (1) x 500mL Silver Nitrate, 0.0192N, Lot # ^{LC22630-1} 7158-18, CAS # 7761-88-8. Store @ 4°C. Expires 6/13/08

7/20/07

BB

(E) 1000ppm TCN Stock #1: Standard Stock

In a tared 500mL volumetric flask, add:

1.26g KEN (WC76005C)

1.00g KOH (WC76005D)

~ 400 mL DI

Dissolve and bring to volume w/DI. Standardize and store @ 4°C in amber glass. Expires 7/20/08.

(F) 1000ppm TCN Stock #2: Reference Stock

In a tared 500mL volumetric flask, add:

1.26g KEN (WC76007B)

1.00g KOH (WC76005D)

~ 400mL DI

Dissolve and bring to volume w/DI. Standardize and store @ 4°C in amber glass. Expires 7/20/08

7/20/07

BB

(G) Rhodamine Indicator Sol'n

Dissolve 0.020g 5-(4-DMAB) Rhodamine (WC76015E) in 100mL Acetone (WC76060F). Store in glass @ R.T. Expires 7/20/08

76265C)

POI.

8/19/07

diluted
& fresh

mand + cl. Residual
(WC76286E) 0.1N
pires 2 weeks 8/3/07.

nd
in 1L w/DI

mand
(WC76285F) to
un and standardize

m 100 mL

con.
store @ 4°C.

z # K981350.11
pires 7/1/08

Run #: 162973

Analyte: TDS

SM2540C TOTAL DISSOLVED SOLIDS (TDS)

Printed: 07/02/08 08:00

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>	<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE</u>	<u>QC</u>	<u>PKG #</u>
				<u>RESULT</u>					<u>ANALYZED</u>		
BLK5		1113607	WATER	2.00	1.0	10.0			06/26/2008		
SPKB		1113608	WATER	918	1.0	10.0	100.4		06/26/2008		
ESMP	R2843634	1096171	WATER	696	1.0	10.0			06/26/2008		1
ESMP	R2844538	1111763	WATER	7280	1.0	10.0			06/26/2008	RUN	ASPB
LDUP		1113609	WATER	7420	1.0	10.0		1.87	06/26/2008		
ESMP	R2844538	1111764	WATER	8650	1.0	10.0			06/26/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER	13700	1.0	10.0			06/26/2008	RUN	ASPB
ESMP	R2844650	1112065	WATER	8310	1.0	10.0			06/26/2008	RUN	ASPB
ESMP	R2844650	1112066	WATER	10800	1.0	10.0			06/26/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER	5.00	1.0	10.0			06/26/2008	RUN	ASPB

Records printed: 10

DATE PRINTED: 07/02/08

SOLIDS / GREASE & OIL REPORT

RUN #: 162973 ANALYSIS DATE: 06/26/08 ASSIGNED TO :

TEMPLATE: SM2540C TOTAL DISS SOLIDS (TDS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL					VOL (ml)	(mg/L)	FLASK/	LS	LS
			TYPE	GROSS (g)	TARE (g)	DIFF (g)	DISH ID			JOB#	LOC#	
1	1113607	R28 0	MBLK	(79.2124-	79.2122)=	0.0002	*1E6 /100	=2.00	VAN			
2	1113608	R28 0	LCS	(82.5078-	82.4564)=	0.0514	*1E6 /56	= 918	T5			
3	1096171	R2843634	ESMP	(85.7887-	85.7344)=	0.0543	*1E6 /78	= 696	72			
4	1111763	R2844538	ESMP	(87.1763-	87.1108)=	0.0655	*1E6 /9	= 7280	58			
5	1113609	R28 0	DUPE	(90.1285-	90.0610)=	0.0675	*1E6 /9.1	= 7420	62			
6	1111764	R2844538	ESMP	(73.8380-	73.7428)=	0.0952	*1E6 /11	= 8650	H10			
7	1111765	R2844538	ESMP	(80.4726-	80.3877)=	0.0849	*1E6 /6.2	= 13700	AS			
8	1112065	R2844650	ESMP	(89.1941-	89.1068)=	0.0873	*1E6 /10.5	= 8310	ED			
9	1112066	R2844650	ESMP	(85.1173-	85.0490)=	0.0683	*1E6 /6.3	= 10800	A10			
10	1112067	R2844650	ESMP	(85.6918-	85.6913)=	0.0005	*1E6 /100	=5.00	GY			

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 6/26/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 13:00

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS X TSS _____

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC85158H

TV: 914 mg/L Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 1

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)	
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:		
1	MB	VAN	100		Gross (A) 1:	79.2126	Gross (A) 3:	2.00	
					Gross (A) 2:	79.2124			
					B)	79.2122	A-B=		0.0002
2	LCS	T5	56		Gross (A) 1:	82.5078	Gross (A) 3:	917.86	
					Gross (A) 2:	82.5078			
					B)	82.4564	A-B=		0.0514
3	44503	R-1109355	E16	100		Gross (A) 1:	89.2946	Gross (A) 3:	171.00
						Gross (A) 2:	89.2943		
						B)	89.2772	A-B=	
4	R-1109356	A2	100			Gross (A) 1:	86.7087	Gross (A) 3:	353.00
						Gross (A) 2:	86.7085		
						B)	86.6732	A-B=	
5	R-1109356 DUP	FT	100			Gross (A) 1:	86.2325	Gross (A) 3:	355.00
						Gross (A) 2:	86.2320		
						B)	86.1965	A-B=	
6	44621	R-1111407	81	100		Gross (A) 1:	86.8087	Gross (A) 3:	375.00
						Gross (A) 2:	86.8078		
						B)	86.7703	A-B=	
7	R-1111638	RO	100			Gross (A) 1:	87.8611	Gross (A) 3:	44.00
						Gross (A) 2:	87.8609		
						B)	87.8565	A-B=	
8	R-1111639	GA	100			Gross (A) 1:	80.2977	Gross (A) 3:	130.00
						Gross (A) 2:	80.2970		
						B)	80.2840	A-B=	
9	R-1111640	ER	100			Gross (A) 1:	81.9594	Gross (A) 3:	179.00
						Gross (A) 2:	81.9581		
						B)	81.9392	A-B=	
10	R-1111726	55	100			Gross (A) 1:	87.2601	Gross (A) 3:	481.00
						Gross (A) 2:	87.2586		
						B)	87.2105	A-B=	
11	R-1111727	WS	100			Gross (A) 1:	83.5768	Gross (A) 3:	489.00
						Gross (A) 2:	83.5761		
						B)	83.5272	A-B=	
12	R-1111727 DUP	X7	100			Gross (A) 1:	86.7996	Gross (A) 3:	485.00
						Gross (A) 2:	86.7982		
						B)	86.7497	A-B=	
13	44305	R-1106639	CO	100		Gross (A) 1:	81.5341	Gross (A) 3:	243.00
						Gross (A) 2:	81.5339		
						B)	81.5096	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 6/26/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 13:00

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS X TSS _____

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC85158H

TV: 914 mg/L Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 1

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
14	R-1106640	T4	100		Gross (A) 1:	83.3057	Gross (A) 3:	335.00
					Gross (A) 2:	83.3054		
					B)	83.2719	A-B=	
15	R-1106641	75	68		Gross (A) 1:	86.3421	Gross (A) 3:	823.53
					Gross (A) 2:	86.3417		
					B)	86.2857	A-B=	
16	R-1106642	OO	100		Gross (A) 1:	80.6275	Gross (A) 3:	285.00
					Gross (A) 2:	80.6274		
					B)	80.5989	A-B=	
17	R-1106643	F8	84		Gross (A) 1:	82.7962	Gross (A) 3:	596.43
					Gross (A) 2:	82.7955		
					B)	82.7454	A-B=	
18	R-1106644	54	91		Gross (A) 1:	87.7548	Gross (A) 3:	546.15
					Gross (A) 2:	87.7543		
					B)	87.7046	A-B=	
19	R-1106645	A5	80		Gross (A) 1:	85.6855	Gross (A) 3:	721.25
					Gross (A) 2:	85.6844		
					B)	85.6267	A-B=	
20	R-1106646	45	58		Gross (A) 1:	86.6220	Gross (A) 3:	894.83
					Gross (A) 2:	86.6212		
					B)	86.5693	A-B=	
21	R-1106647	P1	100		Gross (A) 1:	81.0585	Gross (A) 3:	332.00
					Gross (A) 2:	81.0583		
					B)	81.0251	A-B=	
22	R-1106648	13	100		Gross (A) 1:	80.8621	Gross (A) 3:	194.00
					Gross (A) 2:	80.8617		
					B)	80.8423	A-B=	
23	R-1106649	50	90		Gross (A) 1:	84.7647	Gross (A) 3:	534.44
					Gross (A) 2:	84.7643		
					B)	84.7162	A-B=	
24	R-1106650	A4	82		Gross (A) 1:	86.3942	Gross (A) 3:	735.37
					Gross (A) 2:	86.3936		
					B)	86.3333	A-B=	
25	MB	DW	100		Gross (A) 1:	84.1802	Gross (A) 3:	3.00
					Gross (A) 2:	84.1800		
					B)	84.1797	A-B=	
26	LCS	F4	58		Gross (A) 1:	83.6831	Gross (A) 3:	903.45
					Gross (A) 2:	83.6830		
					B)	83.6306	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 6/26/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 13:00

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS X TSS _____

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC85158H

TV: 914 mg/L Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 1

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)	
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	A-B=		
27	44621	R-1111897	BB	100	<i>see bottom of page</i>	Gross (A) 1:	82.1615	Gross (A) 3:	82.1587	154.00
						Gross (A) 2:	82.1603	4:	82.1587	
						B)	82.1433	A-B=	0.0154	
28	R-1111898	ANT	100		Gross (A) 1:	82.7196	Gross (A) 3:		95.00	
					Gross (A) 2:	82.7193				
					B)	82.7098	A-B=	0.0095		
29	R-1111899	ZX	100		Gross (A) 1:	81.8734	Gross (A) 3:		251.00	
					Gross (A) 2:	81.8724				
					B)	81.8473	A-B=	0.0251		
30	R-1111900	CN	100		Gross (A) 1:	90.2902	Gross (A) 3:		3.00	
					Gross (A) 2:	90.2902				
					B)	90.2899	A-B=	0.0003		
31	44644	R-1111970	A	100		Gross (A) 1:	85.1723	Gross (A) 3:		253.00
						Gross (A) 2:	85.1718			
						B)	85.1465	A-B=	0.0253	
32	44621	R-1111983	F16	100		Gross (A) 1:	84.3809	Gross (A) 3:		186.00
						Gross (A) 2:	84.3799			
						B)	84.3613	A-B=	0.0186	
33	R-1111983 DUP	KK	100		Gross (A) 1:	80.7470	Gross (A) 3:		189.00	
					Gross (A) 2:	80.7461				
					B)	80.7272	A-B=	0.0189		
34	R-1111984	UI	100		Gross (A) 1:	87.6975	Gross (A) 3:		170.00	
					Gross (A) 2:	87.6965				
					B)	87.6795	A-B=	0.0170		
35	R-1111985	YU	100		Gross (A) 1:	85.0682	Gross (A) 3:		273.00	
					Gross (A) 2:	85.0678				
					B)	85.0405	A-B=	0.0273		
36	R-1111986	KL	100		Gross (A) 1:	79.0188	Gross (A) 3:		5.00	
					Gross (A) 2:	79.0188				
					B)	79.0183	A-B=	0.0005		
37	R-1111987	DF	100		Gross (A) 1:	78.2582	Gross (A) 3:		53.00	
					Gross (A) 2:	78.2580				
					B)	78.2527	A-B=	0.0053		
38	43634	R-1096170	TIE	66		Gross (A) 1:	81.2733	Gross (A) 3:		3425.76
						Gross (A) 2:	81.2417			
						B)	81.0156	A-B=	0.2261	
39	R-1096171	72	78		Gross (A) 1:	85.7896	Gross (A) 3:		696.15	
					Gross (A) 2:	85.7887				
					B)	85.7344	A-B=	0.0543		

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mLs)
 Where: A = wgt (g) of dried residue + dish
 B = wgt (g) of tared dish

** Weighed 4th time but could not put value in excel. 4th weight same as 3rd*

Analyte: Total Suspended Solids (TSS)

Method: 160.2 / SM20 2540D

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

Analyst: E. WOLFE

Pipet: DISPOSABLE

Date: 6/26/08

Time: 13:00

TS _____ TDS X TSS _____

LCS Lot: WC85158H

TV: 914 mg/L Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 1

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)		
40	44538	R-1111763	58	9	Gross (A) 1:	87.1815	Gross (A) 3:	87.1763	7277.78	
					Gross (A) 2:	87.1786				
					B)	87.1108	A-B=	0.0655		
41	R-1111763 DUP	62	9.1		Gross (A) 1:	90.1337	Gross (A) 3:	90.1285	7417.58	
					Gross (A) 2:	90.1296				
					B)	90.0610	A-B=	0.0675		
42	R-1111764	H10	11		Gross (A) 1:	73.8385	Gross (A) 3:		8654.55	
					Gross (A) 2:	73.8380				
					B)	73.7428	A-B=	0.0952		
43	R-1111765	AS	6.2		Gross (A) 1:	80.4729	Gross (A) 3:		13693.55	
					Gross (A) 2:	80.4726				
					B)	80.3877	A-B=	0.0849		
44	44650	R-1112065	ED	10.5		Gross (A) 1:	89.1941	Gross (A) 3:		8314.29
						Gross (A) 2:	89.1947			
						B)	89.1068	A-B=	0.0873	
45	R-1112066	A10	6.3			Gross (A) 1:	85.1199	Gross (A) 3:		10841.27
						Gross (A) 2:	85.1173			
						B)	85.0490	A-B=	0.0683	
46	R-1112067	GY	100			Gross (A) 1:	85.6918	Gross (A) 3:		5.00
						Gross (A) 2:	85.6918			
						B)	85.6913	A-B=	0.0005	
47						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		
48						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		
49						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		
50						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		
51						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		
52						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mLs)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

COLUMBIA ANALYTICAL SERVICES, INC

Tare Weights:

Instrument: X Mettler AE240 Analytical Balance
 Mettler AG204 Analytical Balance

Analyst: E. WOLFE
 Date: 6/26/08

Drying Tins: Dish 104°C: Weight Actual
 Crucible 550°C: Dish 550°C: s Weights (s): 99.995 g 1 g
 Dish 180°C: X G/O Dishes: g g

ID Number	Weight	
A10	85.0490	85.0490
GY	85.6913	85.6914
ED	89.1068	89.1070
AS	80.3878	80.3877
62	90.0610	90.0610
H10	73.7430	73.7428
58	87.1109	87.1108
72	85.7345	85.7344
TIE	81.0156	81.0157
DF	78.2527	78.2529
KL	79.0183	79.0183
YU	85.0405	85.0405
UI	87.6795	87.6796
KK	80.7273	80.7272
F16	84.3614	84.3613
A	85.1465	85.1465
CN	90.2899	90.2900
ZX	81.8474	81.8473
ANT	82.7099	82.7098
BB	82.1434	82.1433
F4	83.6306	83.6307
DW	84.1798	84.1797
A4	86.3333	86.3334

ID Number	Weight	
F8	82.7455	82.7454
54	87.7046	87.7046
A5	85.6267	85.6267
45	86.5693	86.5694
P1	81.0251	81.0252
13	80.8424	80.8423
50	84.7163	84.7162
VAN	79.2122	79.2122
T5	82.4565	82.4564
E16	89.2772	89.2772
A2	86.6734	86.6732
FT	86.1967	86.1965
81	86.7705	86.7703
RO	87.8568	87.8565
GA	80.2842	80.2840
ER	81.9392	81.9392
55	87.2106	87.2105
WS	83.5273	83.5272
X7	86.7497	86.7497
CO	81.5097	81.5096
T4	83.2720	83.2719
75	86.2857	86.2857
OO	80.5993	80.5989

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW

Date: 6/26/08

Analysis: Total Dissolved Solids

Instrument: Mettler AE 240 Analytical Balance
 Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC85158H	6/5/08				914
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The weight loss between successive gross dry weights should not exceed 4% or 1.0 mg, whichever is less.

For calculations, used: lower higher tare weight

As a rule, the lower of the successive dry weights is used to calculate the result.

6/2/08
AB

Received from HACH
(A) (3) x 150 COD Digestion Solution Vials, 0-150 ppm.
Cat # 21258-15, HACH Lot # A8137, CAS #
Same as WC85008D. Store in a cool, dark place.
Expires 5/2013

6/3/08
Nim

(B) Ascorbic Acid - TPO4
- same as WC85154F. Exp. 1 week, 6/10/08
(C) Color Reagent - TPO4
- same as WC85154G. Exp. 6/3/09.

6/4/08
BB

Received from VWR
(D) (4) x 500g zinc acetate Dihydrate, Cat # 2X0048-1,
EMD Lot # 41020703, CAS # 5970-45-6. Store @ RT.
Expires 6/4/2013
(E) (2) x 1L Water Hardness Buffer, Cat # 9200-32,
Ricca Lot # 1804583, CAS # Same as WC85042D.
Store @ R.T. Expires 4/2009.
(F) (1) x 500g Ascorbic acid, fine granular, Cat # 0938-07,
JT Baker Lot # G13621, CAS # 50-81-7 Store @ R.T.
Expires 6/4/2013
(G) (4) x 500g Potassium Sulfate, fine crystal, Cat # 3278-01,
JT Baker Lot # E50157, CAS # 7778-80-5. Store @ R.T.
Expires 6/4/2013

6/5/08
EW

(H) TDS Reference
0.9140 g NaCl (WC76259E) diluted volumetrically
to 1L with DI. Store in plastic bottle @ 4°C.
TV = 914 mg/L exp 6/05/09. (4192)

6/6/08
RP

(I) Hypochlorite - NH₃
Same as WC85142F. Prepare fresh each run.

6/6/08
RP

(J) NH₃ Carrier / Diluent
Same as WC85139B. Prepared solution x3.

6/6/08
SBR

(K) TKN Digest Reagent
Same WC85143G. Exp 1 month 7/6/08

6/6/08 (A) Buffer.
Nim

To a
- 940g
- 35.0g
- 20.0g
- 50.0g
Stir u

(B) Color
- same

(C) Buf
- same

(D) Buffer
- same

6/6/08 Received
BB (E) ~~2~~ 2

Cat #
WC85

(F) (3) x
HACH
Store

6/6/08 Received
AB (G) (12)

CPI

Received -
(H) (1) x
VWR
@ R.

6/9/08 (I) TS/TV:
0.3001g
1 Liter w
Expires

Run #: 163144

Analyte: TDS SM2540C TOTAL DISSOLVED SOLIDS (TDS)

Printed: 07/01/08 18:38

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLKS		1114192	WATER	-1.00	1.0	10.0			06/30/2008		
SPKB		1114193	WATER	902	1.0	10.0	98.4		06/30/2008		
ESMP	R2843634	1096170	WATER	3070	1.0	10.0			06/30/2008		1
ESMP	R2844650	1112486	WATER	11500	1.0	10.0			06/30/2008	RUN	ASPB
ESMP	R2844650	1112487	WATER	11000	1.0	10.0			06/30/2008	RUN	ASPB
ESMP	R2844650	1112488	WATER	4710	1.0	10.0			06/30/2008	RUN	ASPB
ESMP	R2844650	1112489	WATER	10900	1.0	10.0			06/30/2008	RUN	ASPB
ESMP	R2844650	1112809	WATER	11100	1.0	10.0			06/30/2008		ASPB
ESMP	R2844650	1112810	WATER	9880	1.0	10.0			06/30/2008		ASPB
ESMP	R2844650	1112811	WATER	11500	1.0	10.0			06/30/2008		ASPB
ESMP	R2844650	1112812	WATER	-1.00	1.0	10.0			06/30/2008		ASPB
ESMP	R2844650	1112871	WATER	5610	1.0	10.0			06/30/2008		ASPB
ESMP	R2844650	1112872	WATER	5950	1.0	10.0			06/30/2008		ASPB
ESMP	R2844650	1112874	WATER	7750	1.0	10.0			06/30/2008	QC	ASPB
LDUP		1114194	WATER	7570	1.0	10.0		2.35	06/30/2008		

Records printed: 15

DATE PRINTED: 07/01/08

SOLIDS / GREASE & OIL REPORT

RUN #: 163144 ANALYSIS DATE: 06/30/08 ASSIGNED TO :

TEMPLATE: SM2540C TOTAL DISS SOLIDS (TDS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL						FLASK/	LS	LS
			TYPE	GROSS (g)	TARE (g)	DIFF (g)	VOL (ml)	(mg/L)	DISH ID	JOB#	LOC#
1	1114192	R28 0	MBLK (81.0293-	81.0294)=	-0.0001	*1E6 /100	=-1.00	SS			
2	1114193	R28 0	LCS (84.0240-	83.9654)=	0.0586	*1E6 /65	= 902	37			
3	1096170	R2843634	ESMP (88.8006-	88.7086)=	0.0920	*1E6 /30	= 3070	TT			
4	1112486	R2844650	ESMP (85.2186-	85.1366)=	0.0820	*1E6 /7.1	= 11500	G			
5	1112487	R2844650	ESMP (84.1770-	84.0891)=	0.0879	*1E6 /08	= 11000	QW			
6	1112488	R2844650	ESMP (88.5526-	88.4065)=	0.1461	*1E6 /31	= 4710	IR			
7	1112489	R2844650	ESMP (87.3189-	87.2244)=	0.0945	*1E6 /8.7	= 10900	NN			
8	1112809	R2844650	ESMP (80.6593-	80.5803)=	0.0790	*1E6 /7.1	= 11100	HOT			
9	1112810	R2844650	ESMP (86.6908-	86.6009)=	0.0899	*1E6 /9.1	= 9880	W10			
10	1112811	R2844650	ESMP (71.7375-	71.6556)=	0.0819	*1E6 /7.1	= 11500	VA			
11	1112812	R2844650	ESMP (85.3681-	85.3682)=	-0.0001	*1E6 /100	=-1.00	A14			
12	1112871	R2844650	ESMP (89.3860-	89.3243)=	0.0617	*1E6 /11	= 5610	OX			
13	1112872	R2844650	ESMP (80.2642-	80.1750)=	0.0892	*1E6 /15	= 5950	TY			
14	1112874	R2844650	ESMP (84.3883-	84.3224)=	0.0659	*1E6 /8.5	= 7750	J1			
15	1114194	R28 0	DUPE (76.6748-	76.6097)=	0.0651	*1E6 /8.6	= 7570	OH			

Analyte: Total Suspended Solids (TSS)

Analyst: E.WOLFE

Date: 6/30/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 11:30

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS X TSS _____

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC85156C

TV: 916 Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 1

*Lower tare weight used unless marked:

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
1	MB	SS	100		Gross (A) 1:	81.0293	Gross (A) 3:	-1.00
					Gross (A) 2:	81.0294		
					B)	81.0294	A-B=	
2	LCS	37	65		Gross (A) 1:	84.0240	Gross (A) 3:	901.54
					Gross (A) 2:	84.0240		
					B)	83.9654	A-B=	
3	43634	R-1096170	TT	30	Gross (A) 1:	88.8025	Gross (A) 3:	3066.67
					Gross (A) 2:	88.8006		
					B)	88.7086	A-B=	
4	44650	R-1112486	G	7.1	Gross (A) 1:	85.2199	Gross (A) 3:	11549.30
					Gross (A) 2:	85.2186		
					B)	85.1366	A-B=	
5	R-1112487	QW	8		Gross (A) 1:	84.1776	Gross (A) 3:	10987.50
					Gross (A) 2:	84.1770		
					B)	84.0891	A-B=	
6	R-1112488	IR	31		Gross (A) 1:	88.5530	Gross (A) 3:	4712.90
					Gross (A) 2:	88.5526		
					B)	88.4065	A-B=	
7	R-1112489	NN	8.7		Gross (A) 1:	87.3201	Gross (A) 3:	10862.07
					Gross (A) 2:	87.3189		
					B)	87.2244	A-B=	
8	R-1112809	HOT	7.1		Gross (A) 1:	80.6599	Gross (A) 3:	11126.76
					Gross (A) 2:	80.6593		
					B)	80.5803	A-B=	
9	R-1112810	W10	9.1		Gross (A) 1:	86.6934	Gross (A) 3:	9879.12
					Gross (A) 2:	86.6908		
					B)	86.6009	A-B=	
10	R-1112811	VA	7.1		Gross (A) 1:	71.7392	Gross (A) 3:	11535.21
					Gross (A) 2:	71.7375		
					B)	71.6556	A-B=	
11	R-1112812	A14	100		Gross (A) 1:	85.3681	Gross (A) 3:	-1.00
					Gross (A) 2:	85.3683		
					B)	85.3682	A-B=	
12	R-1112871	OX	11		Gross (A) 1:	89.3864	Gross (A) 3:	5609.09
					Gross (A) 2:	89.3860		
					B)	89.3243	A-B=	
13	R-1112872	TY	15		Gross (A) 1:	80.2644	Gross (A) 3:	5946.67
					Gross (A) 2:	80.2642		
					B)	80.1750	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)

Analyst: E.WOLFE

Date: 6/30/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 11:30

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS X TSS _____

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC85156C

TV: 916 Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 1

*Lower tare weight used unless marked:

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
14	R-1112874	J1	8.5		Gross (A) 1:	84.3883	Gross (A) 3:	7505.88
					Gross (A) 2:	84.3862		
					B)	84.3224	A-B=	
15	R-1112874 DUP	OH	8.6		Gross (A) 1:	76.6751	Gross (A) 3:	7569.77
					Gross (A) 2:	76.6748		
					B)	76.6097	A-B=	
16	43626 R-1096090	63	2		Gross (A) 1:	87.2109	Gross (A) 3:	27750.00
					Gross (A) 2:	87.2110		
					B)	87.1554	A-B=	
17	R-1096090 DUP	FE	2		Gross (A) 1:	86.4227	Gross (A) 3:	27250.00
					Gross (A) 2:	86.4231		
					B)	86.3682	A-B=	
18	44171 R-1105165	X5	28		Gross (A) 1:	87.9637	Gross (A) 3:	3403.57
					Gross (A) 2:	87.9639		
					B)	87.8684	A-B=	
19	R-1105166	XX	86		Gross (A) 1:	88.7047	Gross (A) 3:	711.63
					Gross (A) 2:	88.7051		
					B)	88.6435	A-B=	
20	R-1105167	CV	100		Gross (A) 1:	79.5537	Gross (A) 3:	439.00
					Gross (A) 2:	79.5544		
					B)	79.5098	A-B=	
21	R-1105168	WET	100		Gross (A) 1:	88.8955	Gross (A) 3:	338.00
					Gross (A) 2:	88.8956		
					B)	88.8617	A-B=	
22	44621 R-1112968	PV	100		Gross (A) 1:	80.3902	Gross (A) 3:	85.00
					Gross (A) 2:	80.3905		
					B)	80.3817	A-B=	
23	R-1112969	VI	100		Gross (A) 1:	88.1238	Gross (A) 3:	164.00
					Gross (A) 2:	88.1240		
					B)	88.1074	A-B=	
24	44734 R-1113042	A1	100		Gross (A) 1:	80.2323	Gross (A) 3:	594.00
					Gross (A) 2:	80.2322		
					B)	80.1728	A-B=	
25	MB	OO	100		Gross (A) 1:	82.1226	Gross (A) 3:	-3.00
					Gross (A) 2:	82.1227		
					B)	82.1229	A-B=	
26	LCS	SD	60		Gross (A) 1:	82.7369	Gross (A) 3:	903.33
					Gross (A) 2:	82.7370		
					B)	82.6827	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)

Analyst: E.WOLFE

Date: 6/30/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 11:30

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS X TSS _____

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC85156C

TV: 916 Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 1

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
27	R-1113043	51	61		Gross (A) 1:	87.9670	Gross (A) 3:	763.93
					Gross (A) 2:	87.9671		
					B)	87.9204	A-B=	
28	R-1113044	FG	100		Gross (A) 1:	81.8471	Gross (A) 3:	62.00
					Gross (A) 2:	81.8476		
					B)	81.8409	A-B=	
29	R-1113045	DA	99		Gross (A) 1:	89.2706	Gross (A) 3:	426.26
					Gross (A) 2:	89.2713		
					B)	89.2284	A-B=	
30	R-1113046	40	100		Gross (A) 1:	83.0997	Gross (A) 3:	318.00
					Gross (A) 2:	83.1002		
					B)	83.0679	A-B=	
31	R-1113046 DUP	Z2	100		Gross (A) 1:	85.1036	Gross (A) 3:	318.00
					Gross (A) 2:	85.1039		
					B)	85.0718	A-B=	
32	R-1113047	LL	100		Gross (A) 1:	84.2329	Gross (A) 3:	108.00
					Gross (A) 2:	84.2332		
					B)	84.2221	A-B=	
33	R-1113048	XC	78		Gross (A) 1:	83.2947	Gross (A) 3:	776.92
					Gross (A) 2:	83.2952		
					B)	83.2341	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

COLUMBIA ANALYTICAL SERVICES, INC

Tare Weights:

Instrument: X Mettler AE240 Analytical Balance
 Mettler AG204 Analytical Balance

Analyst: E.WOLFE
 Date: 6/30/08

Drying Tins: Dish 104°C: Weight Actual
 Crucible 550°C: Dish 550°C: s Weights (s): 99.9995 g 100 g
 Dish 180°C: X G/O Dishes: g g

ID Number	Weight	
SS	81.0297	81.0294
37	83.9655	83.9654
ID	89.9332	89.9332
G	85.1366	85.1368
QW	84.0894	84.0891
IR	88.4065	88.4065
NN	87.2244	87.2245
HOT	80.5803	80.5803
W10	86.6013	86.6009
VA	71.6556	71.6557
A14	85.3686	85.3682
OX	89.3243	89.3244
TY	80.1751	80.1750
J1	84.3224	84.3225
OH	76.6099	76.6097
63	87.1559	87.1554
TT	88.7090	88.7086

ID Number	Weight	
LL	84.2222	84.2221
FE	86.3682	86.3682
X5	87.8684	87.8684
XX	88.6436	88.6435
CV	79.5098	79.5098
WET	88.8617	88.8617
PV	80.3817	80.3817
VI	88.1075	88.1074
A1	80.1728	80.1728
OO	82.1231	82.1229
SD	82.6828	82.6827
51	87.9204	87.9204
FG	81.8409	81.8410
DA	89.2285	89.2284
40	83.0679	83.0680
Z2	85.0718	85.0718
XC	83.2342	83.2341

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: E Wolfe

Date: 7/1/08

Analysis: Total Dissolved Solids

Instrument: Mettler AE 240 Analytical Balance
 Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC85156C	5/27/08				916
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The weight loss between successive gross dry weights should not exceed 4% or 1.0 mg, whichever is less.

For calculations, used: lower higher tare weight

As a rule, the lower of the successive dry weights is used to calculate the result.

- 27/08 NM (A) Hypochlorite - NH₃
- same as WC85142F. Prepare fresh each run.
- 12/08 TC (B) TKN Digest Reagent ^{RS 12/08}
- same as WC85143G. Exp 1 month, 5/6/27/08.
- 7/27/08 AB (C) TDS Reference
0.9158g NaCl (WC76259E) diluted volumetrically to 1 liter w/DI. Store in plastic @ 4°C.
Expire 5/27/09 TV: 916 mg/L.
- 1/28/08 NM (D) Post-Digestion Matrix Match - TKN
To a 2-L vol. flask add 800 mL TKN Digest Reagent (WC85156B) and bring to volume w/UPDI. Mix thoroughly. Pour off 100 mL and discard. Bring back to volume w/UPDI. Mix thoroughly. Store @ RT in amber glass. Exp. 6/27/08.
- (E) Hypochlorite - TKN
- Same as WC85111E. Prepare fresh each run.
- 7/28/08 B/EW (F) TSS Reference
0.2151g Kaelin (WC69285G) brought to 1000 g w/DI.
Store in plastic @ 4°C. Expire 5/28/09. TV: 215 mg/L.
- 1/28/08 NM (G) Sodium Phenolate - NH₃
- same as WC85121C. Exp. 1 year, 5/28/09.
- (H) Color Reagent - TKN
- same as WC85155E. Exp, 1 month, 6/28/08.
- 5/29/08 TC (I) 10% Phosphoric Acid - Phenols
Same as WC85092D. Exp 5/29/09.
- (J) ^{TC 5/29/08} Color Reagent - Phenols
Same as WC85009C. Exp 2 weeks 6/12/08

A

R44650
R44768
R44803
R44770

2 runs

UCOPW

Run #: 163395
Analyte: TDS SM2540C TOTAL DISSOLVED SOLIDS (TDS)
Printed: 07/08/08 12:11

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLKS		1115302	WATER	1.00	1.0	10.0			07/03/2008		
SPKB		1115303	WATER	909	1.0	10.0	99.5		07/03/2008		
ESMP	R2844650	1113426	WATER	8100	1.0	10.0			07/03/2008		ASPB
ESMP	R2844650	1113427	WATER	6570	1.0	10.0			07/03/2008		ASPB
ESMP	R2844650	1113428	WATER	6980	1.0	10.0			07/03/2008		ASPB
ESMP	R2844650	1113429	WATER	3010	1.0	10.0			07/03/2008		ASPB
ESMP	R2844650	1113430	WATER	5510	1.0	10.0			07/03/2008		ASPB
ESMP	R2843635	1096177	WATER	3240	1.0	10.0			07/03/2008		1
ESMP	R2843635	1096178	WATER	666	1.0	10.0			07/03/2008		1
ESMP	R2844768	1113695	WATER	1010	1.0	10.0			07/03/2008		ASPB
ESMP	R2844768	1113696	WATER	12100	1.0	10.0			07/03/2008		ASPB
LDUP		1115304	WATER	11700	1.0	10.0		3.46	07/03/2008		
ESMP	R2844768	1113697	WATER	1380	1.0	10.0			07/03/2008		ASPB
ESMP	R2844768	1113698	WATER	3210	1.0	10.0			07/03/2008		ASPB
ESMP	R2844768	1113699	WATER	3110	1.0	10.0			07/03/2008		ASPB
ESMP	R2844508	1109492	WATER	796	1.0	10.0			07/03/2008		1
ESMP	R2844508	1109493	WATER	682	1.0	10.0			07/03/2008		1
ESMP	R2844508	1109495	WATER	229	1.0	10.0			07/03/2008		1
ESMP	R2844508	1109498	WATER	244	1.0	10.0			07/03/2008		1
ESMP	R2844803	1114419	WATER	9520	1.0	10.0			07/03/2008		ASPB
ESMP	R2844803	1114420	WATER	9410	1.0	10.0			07/03/2008		ASPB
ESMP	R2844803	1114421	WATER	10800	1.0	10.0			07/03/2008	QC	ASPB
LDUP		1115305	WATER	10800	1.0	10.0		0.28	07/03/2008		

Records printed: 23

Reviewed & Approved

By: B. Bove

Date: 7/11/08

SOLIDS / GREASE & OIL REPORT

RUN #: 163395 ANALYSIS DATE: 07/03/08 ASSIGNED TO :
 TEMPLATE: SM2540C TOTAL DISS SOLIDS (TDS)

TUP#	ORDER #	SUBMISSION	CONTROL				VOL (ml)	(mg/L)	FLASK/	LS	LS
			TYPE	GROSS (g)	TARE (g)	DIFF (g)			DISH ID	JOB#	LOC#
1	1115302	R28 0	MBLK	(89.3250-	89.3249)=	0.0001	*1E6 /100	=1.00	OX		
2	1115303	R28 0	LCS	(84.2696-	84.2214)=	0.0482	*1E6 /53	= 909	LL		
3	1113426	R2844650	ESMP	(89.0678-	89.0006)=	0.0672	*1E6 /8.3	= 8100	67		
4	1113427	R2844650	ESMP	(72.0239-	71.9661)=	0.0578	*1E6 /8.8	= 6570	NM		
5	1113428	R2844650	ESMP	(85.7819-	85.6911)=	0.0908	*1E6 /13	= 6980	GY		
6	1113429	R2844650	ESMP	(82.3014-	82.2366)=	0.0648	*1E6 /21.5	= 3010	F9		
7	1113430	R2844650	ESMP	(89.1842-	89.1071)=	0.0771	*1E6 /14	= 5510	ED		
8	1096177	R2843635	ESMP	(89.3740-	89.2769)=	0.0971	*1E6 /30	= 3240	E16		
9	1096178	R2843635	ESMP	(88.9197-	88.8604)=	0.0593	*1E6 /89	= 666	WET		
10	1113695	R2844768	ESMP	(84.7932-	84.7162)=	0.0770	*1E6 /76	= 1010	50		
11	1113696	R2844768	ESMP	(84.7932-	84.7162)=	0.0739	*1E6 /6.1	= 12100	OO		
12	1115304	R28 0	DUPE	(83.2950-	83.2237)=	0.0713	*1E6 /6.1	= 11700	43		
13	1113697	R2844768	ESMP	(86.7629-	86.6733)=	0.0896	*1E6 /65	= 1380	A2		
14	1113698	R2844768	ESMP	(86.6373-	86.5683)=	0.0690	*1E6 /21.5	= 3210	45		
15	1113699	R2844768	ESMP	(79.5747-	79.5094)=	0.0653	*1E6 /21	= 3110	CV		
16	1109492	R2844508	ESMP	(86.4294-	86.3677)=	0.0617	*1E6 /77.5	= 796	FE		
17	1109493	R2844508	ESMP	(85.9909-	85.9377)=	0.0532	*1E6 /78	= 682	80		
18	1109495	R2844508	ESMP	(83.2951-	83.2722)=	0.0229	*1E6 /100	= 229	T4		
19	1109498	R2844508	ESMP	(81.5327-	81.5083)=	0.0244	*1E6 /100	= 244	CO		
20	1114419	R2844803	ESMP	(86.3967-	86.3329)=	0.0638	*1E6 /6.7	= 9520	A4		
21	1114420	R2844803	ESMP	(85.2313-	85.1372)=	0.0941	*1E6 /10	= 9410	G		
22	1114421	R2844803	ESMP	(88.0287-	87.9205)=	0.1082	*1E6 /10	= 10800	51		
23	1115305	R28 0	DUPE	(80.6893-	80.5810)=	0.1083	*1E6 /10	= 10800	HOT		



Analyte: Total Suspended Solids (TSS)
 Method: 160.2 / SM20 2540D
 Analyte: Total Dissolved Solids (TDS)
 Method: 160.1 / SM20 2540C
 Analyte: Total Solids (TS)
 Method 160.3 / SM20 2540B

Analyst: E. WOLFE
 Pipet: DISPOSABLE

Date: 7/3/08
 Time: 10:30

TS _____ TDS X TSS _____

LCS Lot: WC85172E TV: 914 Balance ID: AE240

Filter Lot: WC85172E Oven ID: 1 *Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
1	MB	OX	100		Gross (A) 1:	89.3250	Gross (A) 3:	1.00
					Gross (A) 2:	89.3250		
					B)	89.3249	A-B=	
2	LCS	LL	53		Gross (A) 1:	84.2696	Gross (A) 3:	909.43
					Gross (A) 2:	84.2696		
					B)	84.2214	A-B=	
3	44650	R-1113426	67	8.3	Gross (A) 1:	89.0681	Gross (A) 3:	8096.39
					Gross (A) 2:	89.0678		
					B)	89.0006	A-B=	
4	R-1113427	NM	8.8		Gross (A) 1:	72.0241	Gross (A) 3:	6568.18
					Gross (A) 2:	72.0239		
					B)	71.9661	A-B=	
5	R-1113428	GY	13		Gross (A) 1:	85.7819	Gross (A) 3:	6984.62
					Gross (A) 2:	85.7828		
					B)	85.6911	A-B=	
6	R-1113429	F9	21.5		Gross (A) 1:	82.3015	Gross (A) 3:	3013.95
					Gross (A) 2:	82.3014		
					B)	82.2366	A-B=	
7	R-1113430	ED	14		Gross (A) 1:	89.1845	Gross (A) 3:	5507.14
					Gross (A) 2:	89.1842		
					B)	89.1071	A-B=	
8	43635 R-1096177	LA	58		Gross (A) 1:	88.4285	Gross (A) 3:	3839.66
					Gross (A) 2:	88.4269		
					B)	88.2042	A-B=	
9	R-1096178	WET	89		Gross (A) 1:	88.9197	Gross (A) 3:	666.29
					Gross (A) 2:	88.9199		
					B)	88.8604	A-B=	
10	44768	R-1113695	50	76	Gross (A) 1:	84.7935	Gross (A) 3:	1013.16
					Gross (A) 2:	84.7932		
					B)	84.7162	A-B=	
11	R-1113696	OO	6.1		Gross (A) 1:	82.1967	Gross (A) 3:	12114.75
					Gross (A) 2:	82.1982		
					B)	82.1228	A-B=	
12	R-1113696 DUP	43	6.1		Gross (A) 1:	83.2950	Gross (A) 3:	11688.52
					Gross (A) 2:	83.2989		
					B)	83.2237	A-B=	
13	R-1113697	A2	65		Gross (A) 1:	86.7630	Gross (A) 3:	1378.46
					Gross (A) 2:	86.7629		
					B)	86.6733	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
 Where: A = wgt (g) of dried residue + dish
 B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 7/3/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 10:30

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS X TSS _____

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC85172E ^{WC85172E} _{WC173G} ^{TV} 914 Balance ID: AE240

Filter Lot: WC85172E Oven ID: 1 *Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
14	R-1113698	45	21.5		Gross (A) 1:	86.6374	Gross (A) 3:	3209.30
					Gross (A) 2:	86.6373		
					B)	86.5683	A-B=	
15	R-1113699	CV	21		Gross (A) 1:	79.5747	Gross (A) 3:	3109.52
					Gross (A) 2:	79.5747		
					B)	79.5094	A-B=	
16	44508	R-1109492	FE	77.5	Gross (A) 1:	86.4294	Gross (A) 3:	796.13
					Gross (A) 2:	86.4295		
					B)	86.3677	A-B=	
17	R-1109493	80	78		Gross (A) 1:	85.9909	Gross (A) 3:	682.05
					Gross (A) 2:	85.9909		
					B)	85.9377	A-B=	
18	R-1109495	T4	100		Gross (A) 1:	83.2951	Gross (A) 3:	229.00
					Gross (A) 2:	83.2953		
					B)	83.2722	A-B=	
19	R-1109498	CO	100		Gross (A) 1:	81.5327	Gross (A) 3:	244.00
					Gross (A) 2:	81.5328		
					B)	81.5083	A-B=	
20	44803	R-1114419	A4	6.7	Gross (A) 1:	86.3968	Gross (A) 3:	9522.39
					Gross (A) 2:	86.3967		
					B)	86.3329	A-B=	
21	R-1114420	G	10		Gross (A) 1:	85.2313	Gross (A) 3:	9410.00
					Gross (A) 2:	85.2315		
					B)	85.1372	A-B=	
22	R-1114421	51	10		Gross (A) 1:	88.0287	Gross (A) 3:	10820.00
					Gross (A) 2:	88.0288		
					B)	87.9205	A-B=	
23	R-1114421 DUP	HOT	10		Gross (A) 1:	80.6893	Gross (A) 3:	10830.00
					Gross (A) 2:	80.6904		
					B)	80.5810	A-B=	
24	44233	R-1105694	F16	92	Gross (A) 1:	84.4257	Gross (A) 3:	701.09
					Gross (A) 2:	84.4257		
					B)	84.3612	A-B=	
25	MB	V9	100		Gross (A) 1:	81.6282	Gross (A) 3:	0.00
					Gross (A) 2:	81.6282		
					B)	81.6282	A-B=	
26	LCS	FG	53		Gross (A) 1:	81.8898	Gross (A) 3:	909.43
					Gross (A) 2:	81.8898		
					B)	81.8416	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mLs)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)
 Method: 160.2 / SM20 2540D
 Analyte: Total Dissolved Solids (TDS)
 Method: 160.1 / SM20 2540C
 Analyte: Total Solids (TS)
 Method 160.3 / SM20 2540B

Analyst: E. WOLFE
 Pipet: DISPOSABLE

Date: 7/3/08
 Time: 10:30

TS _____ TDS X TSS _____

LCS Lot: WC85172E ^{WC851736}
 TV: 914 Balance ID: AE240

Filter Lot: WC85172E Oven ID: 1 *Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
27	44233	R-1105695	XC	76	Gross (A) 1:	83.2758	Gross (A) 3:	546.05
					Gross (A) 2:	83.2758		
					B)	83.2343	A-B=	
28	R-1105696	WS	43		Gross (A) 1:	83.6187	Gross (A) 3:	2130.23
					Gross (A) 2:	83.6191		
					B)	83.5271	A-B=	
29	R-1105697	X5	44.5		Gross (A) 1:	87.9640	Gross (A) 3:	2157.30
					Gross (A) 2:	87.9646		
					B)	87.8680	A-B=	
30	R-1105698	CN	40		Gross (A) 1:	90.3939	Gross (A) 3:	2602.50
					Gross (A) 2:	90.3939		
					B)	90.2898	A-B=	
31	R-1105699	IR	48		Gross (A) 1:	88.4565	Gross (A) 3:	1027.08
					Gross (A) 2:	88.4567		
					B)	88.4072	A-B=	
32	R-1105700	YU	83.5		Gross (A) 1:	85.1012	Gross (A) 3:	719.76
					Gross (A) 2:	85.1006		
					B)	85.0405	A-B=	
33	R-1105701	81	59		Gross (A) 1:	86.8420	Gross (A) 3:	1222.03
					Gross (A) 2:	86.8420		
					B)	86.7699	A-B=	
34	R-1105702	ID	34		Gross (A) 1:	90.1041	Gross (A) 3:	5017.65
					Gross (A) 2:	90.1041		
					B)	89.9335	A-B=	
35	R-1105703	QO	49		Gross (A) 1:	80.6586	Gross (A) 3:	1204.08
					Gross (A) 2:	80.6587		
					B)	80.5996	A-B=	
36	R-1105704	DW	33		Gross (A) 1:	84.2341	Gross (A) 3:	1645.45
					Gross (A) 2:	84.2341		
					B)	84.1798	A-B=	
37	44770	R-1113733	A	100	Gross (A) 1:	85.1632	Gross (A) 3:	170.00
					Gross (A) 2:	85.1633		
					B)	85.1462	A-B=	
38	R-1113734	74	100		Gross (A) 1:	85.3584	Gross (A) 3:	300.00
					Gross (A) 2:	85.3585		
					B)	85.3284	A-B=	
39	R-1113735	53	100		Gross (A) 1:	87.5028	Gross (A) 3:	294.00
					Gross (A) 2:	87.5028		
					B)	87.4734	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
 Where: A = wgt (g) of dried residue + dish
 B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 7/3/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 10:30

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS X TSS _____

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC851736 TV: 914 Balance ID: AE240

Filter Lot: WC85172E Oven ID: 1 *Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
40	R-1113735 DUP	VAN	100		Gross (A) 1:	79.2416	Gross (A) 3:	298.00
					Gross (A) 2:	79.2416		
					B)	79.2118	A-B=	
41	R-1113736	TY	100		Gross (A) 1:	80.1904	Gross (A) 3:	145.00
					Gross (A) 2:	80.1904		
					B)	80.1759	A-B=	
42	44508 R-1109500	AS	67.5		Gross (A) 1:	80.4494	Gross (A) 3:	909.63
					Gross (A) 2:	80.4494		
					B)	80.3880	A-B=	
43	R-1109500 DUP	P1	70		Gross (A) 1:	81.0893	Gross (A) 3:	915.71
					Gross (A) 2:	81.0892		
					B)	81.0251	A-B=	
44	44770 R-1114342	13	100		Gross (A) 1:	80.8654	Gross (A) 3:	219.00
					Gross (A) 2:	80.8655		
					B)	80.8435	A-B=	
45	R-1114343	Z2	100		Gross (A) 1:	85.0922	Gross (A) 3:	200.00
					Gross (A) 2:	85.0923		
					B)	85.0722	A-B=	
46	R-1114344	DF	100		Gross (A) 1:	78.2860	Gross (A) 3:	337.00
					Gross (A) 2:	78.2857		
					B)	78.2520	A-B=	
47	R-1114345	ANT	100		Gross (A) 1:	82.7324	Gross (A) 3:	227.00
					Gross (A) 2:	82.7325		
					B)	82.7097	A-B=	
48	R-1114346	54	100		Gross (A) 1:	87.7208	Gross (A) 3:	162.00
					Gross (A) 2:	87.7208		
					B)	87.7046	A-B=	
49	MB	A5	100		Gross (A) 1:	85.6256	Gross (A) 3:	-2.00
					Gross (A) 2:	85.6259		
					B)	85.6258	A-B=	
50	LCS	T5	59		Gross (A) 1:	82.5104	Gross (A) 3:	918.64
					Gross (A) 2:	82.5105		
					B)	82.4562	A-B=	
51	R-1114347	75	100		Gross (A) 1:	86.2914	Gross (A) 3:	58.00
					Gross (A) 2:	86.2918		
					B)	86.2856	A-B=	
52	R-1114348	UI	100		Gross (A) 1:	87.6894	Gross (A) 3:	102.00
					Gross (A) 2:	87.6896		
					B)	87.6792	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 7/3/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 10:30

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS X TSS _____

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC851736 TV: 914 Balance ID: AE240
~~WC1736~~ 7/16/08

Filter Lot: WC85172E Oven ID: 1 *Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)	
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:		
53	R-1114349	62	100		Gross (A) 1:	90.0724	Gross (A) 3:	108.00	
					Gross (A) 2:	90.0725			
					B)	90.0616	A-B=		0.0108
54	43635	R-1096177	E16	30		Gross (A) 1:	89.3743	Gross (A) 3:	3236.67
						Gross (A) 2:	89.3740		
						B)	89.2769	A-B=	
55	44233	R-1105702	ZX	10		Gross (A) 1:	81.8915	Gross (A) 3:	4450.00
						Gross (A) 2:	81.8915		
						B)	81.8470	A-B=	

not used
7/16/08

*Reported result = 5020.
 To RSD is 12.0%. Report
 this as dup. AS 7/14/08*

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
 Where: A = wgt (g) of dried residue + dish
 B = wgt (g) of tared dish

COLUMBIA ANALYTICAL SERVICES, INC

Tare Weights:

Instrument: X Mettler AE240 Analytical Balance
 _____ Mettler AG204 Analytical Balance

Analyst: E. WOLFE
 Date: 7/3/08

Drying Tins: _____ Dish 104°C: _____
 Crucible 550°C: _____ Dish 550°C: _____
 Dish 180°C: X G/O Dishes: _____

Weight Actual
 s Weights (s): 99.9994 g 100 g
 _____ g _____ g

ID Number	Weight	
OX	89.3249	89.3251
LL	84.2214	84.2214
67	89.0006	89.0006
NM	71.9661	71.9664
GY	85.6911	85.6913
F9	82.2366	82.2367
ED	89.1071	89.1072
LA	88.2042	88.2044
WET	88.8607	88.8604
50	84.7162	84.7162
OO	82.1228	82.1228
43	83.2237	83.2237
A2	86.6733	86.6734
45	86.5683	86.5686
CV	79.5095	79.5094
FE	86.3681	86.3677
YU	85.0405	85.0405
IR	88.4072	88.4072
CN	90.2898	90.2898
X5	87.8680	87.8680
WS	83.5272	83.5271
XC	83.2344	83.2343
FG	81.8417	81.8416
V9	81.6282	81.6284
F16	84.3614	84.3612
HOT	80.5810	80.5811
51	87.9207	87.9205
G	85.1373	85.1372

ID Number	Weight	
A4	86.3329	86.3330
CO	81.5084	81.5083
T4	83.2722	83.2722
80	85.9379	85.9377
TY	80.1759	80.1760
AS	80.3881	80.3880
P1	81.0253	81.0251
13	80.8436	80.8435
Z2	85.0722	85.0722
DF	78.2521	78.2520
ANT	82.7098	82.7097
54	87.7046	87.7046
81	86.7700	86.7699
ID	89.9335	89.9335
QO	80.5996	80.5996
DW	84.1799	84.1798
A	85.1462	85.1462
74	85.3284	85.3284
53	87.4734	87.4734
VAN	79.2119	79.2118
A5	85.6260	85.6258
T5	82.4565	82.4562
75	86.2856	86.2857
UI	87.6793	87.6792
62	90.0617	90.0616
E16	89.2772	89.2769
ZX	81.8471	81.8470
<i>EW 7/3/08</i>		

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW

Date: 7/3/08

Analysis: Total Dissolved Solids

Instrument: Mettler AE 240 Analytical Balance
 Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC85173G	7/3/08				914
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The weight loss between successive gross dry weights should not exceed 4% or 1.0 mg, whichever is less.

For calculations, used: lower higher tare weight

As a rule, the lower of the successive dry weights is used to calculate the result.

7/3/08, Prepared x2,

When discolored.

651259) and 200 ml UPDI
UPDI. store at 4°C.

7 mm, Whatman
in drum

7 mm, Whatman
as above. Exp: N/A.
Cat # EX0551-1,
Store @ R.T.

7/3/08, Cat # VW3475-1,
17-7, 7732-1V-5.

135-07, J.T. Baker
R.T. Exp. 7/2/13
3945-14, EMD
18.5. Store @ R.T.

1. Thionylchloride,
1, CAS# 10049-21-5.

Cat # SX082118
8, 7732-18-5

Cat # WX0045-4,
Store @ R.T.

7/2/08 (A) Color Reagent for Phenols
AB Same as WC85009C except Brij added was 1.0 mL. Exp 7/16/08
(B) 10% Phosphoric Acid
Same as WC85092D. Expires 7/2/09

7/3/08 (C) MBAS Wash Solution
DCB In a tared 2L Volumetric flask add 13.7 H₂SO₄ (M1780077A)
and 100g Sodium Phosphate mono basic monohydrate (WC76204E)
Bring up to volume with DI. Store at RT exp 7/3/09

7/3/08 (D) Color Reagent - MBAS
DCB To a volumetric flask add
1) 60mls Methylene Blue Stock (WC85015D)
2) 100g Sodium Phosphate monobasic monohydrate
3) 13.7mls Conc H₂SO₄ (M1780077A)
bring to volume with DI expires 1yr 7/3/08

7/3/08 (E) NH₃ Carrier/Diluent
Nim - same as WC85170C. Prepared solution x3.

(F) Hypochlorite - NH₃
- same as WC85142F. Prepare fresh each run,

7/3/08 (G) TDS Reference
EW 0.9140g NaCl (WC76259E) diluted volumetrically
to 1 liter w/ DI. Store in plastic bottle @ 4°C.
Expires 7/3/09 TV = 914 mg/L

7/3/08 (H) Eriochrome Black-T - Hardness Indicator
Nim Add 50.0g NaCl (WC85109J) and .25g Eriochrome
Black-T (WC69284E) to a tared B-cup. Cap & shake
well to mix. Store at r.t. exp. 5/31/10

Chlorine Residual

7/3/08 (I) FAS Titrant
RP 0.553g Ferrous Ammonium sulfate Hexahydrate (WC76254E)
dissolved in UPDI w/ 0.5 ml 1/4 H₂SO₄ (WC85027B) and brought
to volume in 500ml vol. flask.
Store at room temp in Amber glass. Exp. 1 month 8/3/08

R44321
 R44538
 R44650
 30000

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK5		1118474	WATER	18.6	1.0	1.00	92.9		07/11/08		
CHK5		1118474	WATER	20.5	1.0	1.00	102.6		07/11/08		
CHK5		1118474	WATER	20.3	1.0	1.00	101.7		07/11/08		
CHK5		1118474	WATER	20.4	1.0	1.00	101.8		07/11/08		
BLK4		1118475	WATER	-0.126	1.0	1.00			07/11/08		
BLK4		1118475	WATER	-0.158	1.0	1.00			07/11/08		
BLK4		1118475	WATER	-0.162	1.0	1.00			07/11/08		
BLK4		1118475	WATER	-0.148	1.0	1.00			07/11/08		
SPKB		1118476	WATER	10.3	1.0	1.00	102.8		07/11/08		
SPKB		1118476	WATER	10.3	1.0	1.00	103.1		07/11/08		
SPKB		1118476	WATER	10.3	1.0	1.00	103.4		07/11/08		
SPKB		1118476	WATER	10.3	1.0	1.00	103.4		07/11/08		
SPKB		1118477	WATER	9.40	1.0	1.00	94.0		07/12/08		
SPKB		1118477	WATER	9.80	1.0	1.00	98.1		07/12/08		
SPKB		1118477	WATER	9.96	1.0	1.00	99.6		07/12/08		
SPKB		1118477	WATER	9.88	1.0	1.00	98.8		07/12/08		
ESMP	R2844321	1106783	WATER	0.310	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106783	WATER	0.301	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106783	WATER	0.368	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106783	WATER	0.310	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106786	WATER	0.839	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106786	WATER	0.845	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106786	WATER	0.828	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106786	WATER	0.867	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106790	WATER	0.363	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106790	WATER	0.340	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106790	WATER	0.333	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106790	WATER	0.346	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106791	WATER	2.42	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106791	WATER	2.39	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106791	WATER	2.48	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106791	WATER	2.41	1.0	1.00			07/11/08		ASPB
LDUP		1118478	WATER	2.29	1.0	1.00		5.61	07/11/08		
LDUP		1118478	WATER	2.26	1.0	1.00		5.68	07/11/08		
LDUP		1118478	WATER	2.35	1.0	1.00		5.51	07/11/08		
LDUP		1118478	WATER	2.28	1.0	1.00		5.50	07/11/08		
SPK1		1118479	WATER	12.4	1.0	1.00	99.5		07/11/08		
SPK1		1118479	WATER	12.8	1.0	1.00	103.9		07/11/08		
SPK1		1118479	WATER	12.5	1.0	1.00	99.8		07/11/08		
SPK1		1118479	WATER	12.4	1.0	1.00	100.0		07/11/08		
ESMP	R2844538	1111763	WATER	1.97	1.0	1.00			07/11/08	RUN	ASPB
ESMP	R2844538	1111763	WATER	2.13	1.0	1.00			07/11/08	RUN	ASPB
ESMP	R2844538	1111763	WATER	2.18	1.0	1.00			07/11/08	RUN	ASPB
ESMP	R2844538	1111763	WATER	2.20	1.0	1.00			07/11/08	RUN	ASPB
ESMP	R2844538	1111764	WATER	1.83	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111764	WATER	2.00	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111764	WATER	2.04	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111764	WATER	2.02	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	2.38	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	2.55	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	2.65	1.0	1.00			07/12/08	RUN	ASPB

Reviewed & Approved
 By: CHILDA
 Date: 7/17/08

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844538	1111765	WATER	2.59	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112065	WATER	2.32	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112065	WATER	2.39	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112065	WATER	2.43	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112065	WATER	2.43	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	1.72	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	1.79	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	1.86	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	1.84	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.207	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.138	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.106	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.114	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	1.84	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	1.97	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	2.07	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	2.09	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	1.82	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	1.84	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	1.89	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	2.00	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	2.15	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	2.22	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	2.29	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	2.32	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	1.74	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	1.79	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	1.92	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	2.12	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112809	WATER	1.87	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112809	WATER	1.94	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112809	WATER	2.02	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112809	WATER	2.04	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112810	WATER	1.63	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112810	WATER	1.80	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112810	WATER	1.82	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112810	WATER	1.86	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112811	WATER	17.6	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112811	WATER	19.3	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112811	WATER	18.9	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112811	WATER	19.5	1.0	1.00			07/12/08		ASPB
LDUP		1118480	WATER	18.7	1.0	1.00		5.96	07/12/08		
LDUP		1118480	WATER	19.4	1.0	1.00		0.37	07/12/08		
LDUP		1118480	WATER	20.1	1.0	1.00		6.12	07/12/08		
LDUP		1118480	WATER	19.7	1.0	1.00		1.14	07/12/08		
SPK1		1118481	WATER	23.6	1.0	1.00	60.2		07/12/08		
SPK1		1118481	WATER	24.6	1.0	1.00	52.7		07/12/08		
SPK1		1118481	WATER	23.8	1.0	1.00	48.6		07/12/08		
SPK1		1118481	WATER	25.3	1.0	1.00	57.6		07/12/08		
ESMP	R2844650	1112812	WATER	0.702	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112812	WATER	0.475	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112812	WATER	0.416	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112812	WATER	0.322	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112871	WATER	1.34	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112871	WATER	1.42	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112871	WATER	1.44	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112871	WATER	1.54	1.0	1.00			07/12/08		ASPB

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844650	1112872	WATER	1.31	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112872	WATER	1.37	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112872	WATER	1.45	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112872	WATER	1.43	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112874	WATER	1.62	1.0	1.00			07/12/08	QC	ASPB
ESMP	R2844650	1112874	WATER	1.62	1.0	1.00			07/12/08	QC	ASPB
ESMP	R2844650	1112874	WATER	1.70	1.0	1.00			07/12/08	QC	ASPB
ESMP	R2844650	1112874	WATER	1.74	1.0	1.00			07/12/08	QC	ASPB
LDUP		1118482	WATER	1.74	1.0	1.00			07/12/08		
LDUP		1118482	WATER	1.73	1.0	1.00		7.37	07/12/08		
LDUP		1118482	WATER	1.85	1.0	1.00		6.45	07/12/08		
LDUP		1118482	WATER	1.85	1.0	1.00		8.50	07/12/08		
LDUP		1118482	WATER	1.85	1.0	1.00		5.91	07/12/08		
SPK1		1118483	WATER	8.97	1.0	1.00	73.5		07/12/08		
SPK1		1118483	WATER	9.53	1.0	1.00	79.1		07/12/08		
SPK1		1118483	WATER	9.63	1.0	1.00	79.3		07/12/08		
SPK1		1118483	WATER	10.7	1.0	1.00	89.7		07/12/08		
ESMP	R2844734	1113042	WATER	0.935	1.0	1.00			07/12/08		2
ESMP	R2844734	1113042	WATER	0.965	1.0	1.00			07/12/08		2
ESMP	R2844734	1113042	WATER	1.18	1.0	1.00			07/12/08		2
ESMP	R2844734	1113042	WATER	1.06	1.0	1.00			07/12/08		2
ESMP	R2844734	1113043	WATER	4.88	1.0	1.00			07/12/08		2
ESMP	R2844734	1113043	WATER	4.90	1.0	1.00			07/12/08		2
ESMP	R2844734	1113043	WATER	4.99	1.0	1.00			07/12/08		2
ESMP	R2844734	1113043	WATER	4.94	1.0	1.00			07/12/08		2
ESMP	R2844734	1113044	WATER	0.716	1.0	1.00			07/12/08		2
ESMP	R2844734	1113044	WATER	0.657	1.0	1.00			07/12/08		2
ESMP	R2844734	1113044	WATER	0.593	1.0	1.00			07/12/08		2
ESMP	R2844734	1113044	WATER	0.605	1.0	1.00			07/12/08		2
ESMP	R2844734	1113045	WATER	2.15	1.0	1.00			07/12/08		2
ESMP	R2844734	1113045	WATER	2.28	1.0	1.00			07/12/08		2
ESMP	R2844734	1113045	WATER	2.52	1.0	1.00			07/12/08		2
ESMP	R2844734	1113045	WATER	2.33	1.0	1.00			07/12/08		2
ESMP	R2844734	1113046	WATER	1.60	1.0	1.00			07/12/08	QC	2
ESMP	R2844734	1113046	WATER	1.62	1.0	1.00			07/12/08	QC	2
ESMP	R2844734	1113046	WATER	1.71	1.0	1.00			07/12/08	QC	2
ESMP	R2844734	1113046	WATER	1.68	1.0	1.00			07/12/08	QC	2
LDUP		1118484	WATER	1.67	1.0	1.00		4.22	07/12/08		
LDUP		1118484	WATER	1.72	1.0	1.00		5.99	07/12/08		
LDUP		1118484	WATER	1.78	1.0	1.00		3.73	07/12/08		
LDUP		1118484	WATER	1.76	1.0	1.00		4.54	07/12/08		
SPK1		1118485	WATER	12.0	1.0	1.00	104.1		07/12/08		
SPK1		1118485	WATER	12.1	1.0	1.00	104.4		07/12/08		
SPK1		1118485	WATER	12.0	1.0	1.00	103.0		07/12/08		
SPK1		1118485	WATER	11.9	1.0	1.00	102.6		07/12/08		
ESMP	R2844734	1113047	WATER	17.9	1.0	1.00			07/12/08		2
ESMP	R2844734	1113047	WATER	18.1	1.0	1.00			07/12/08		2
ESMP	R2844734	1113047	WATER	18.5	1.0	1.00			07/12/08		2
ESMP	R2844734	1113047	WATER	18.5	1.0	1.00			07/12/08		2
ESMP	R2844734	1113048	WATER	5.29	1.0	1.00			07/12/08		2
ESMP	R2844734	1113048	WATER	5.04	1.0	1.00			07/12/08		2
ESMP	R2844734	1113048	WATER	5.02	1.0	1.00			07/12/08		2
ESMP	R2844734	1113048	WATER	5.00	1.0	1.00			07/12/08		2
ESMP	R2844650	1113426	WATER	1.60	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113426	WATER	1.73	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113426	WATER	1.69	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113426	WATER	1.62	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113427	WATER	1.86	1.0	1.00			07/12/08		ASPB

ANALYTE:G:\STARLIMS\ASBAR.RP1

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>RESULT</u>	<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
ESMP	R2844650	1113427	WATER	1.93	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113427	WATER	2.01	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113427	WATER	1.94	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113428	WATER	2.69	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113428	WATER	2.68	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113428	WATER	2.76	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113428	WATER	2.76	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113429	WATER	1.37	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113429	WATER	1.41	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113429	WATER	1.45	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113429	WATER	1.50	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113430	WATER	1.28	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113430	WATER	1.38	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113430	WATER	1.36	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113430	WATER	1.38	1.0	1.00			07/13/08		ASPB

Records printed: 180

Run #: 164120
 Analyte: TOC AVG TOCAVG TOC QUAD AVERAGE (CALC.)
 Printed: 07/17/08 12:34

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	POL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	1111763	WATER	2.12	1.0	1.00			07/11/08	RUN	ASPB
CHKS		1118486	WATER	19.9	1.0	1.00			07/11/08		
BLK4		1118487	WATER	-0.148	1.0	1.00			07/11/08		
SPKB		1118488	WATER	10.3	1.0	1.00			07/11/08		
ESMP	R2844538	1111764	WATER	1.97	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	2.54	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112065	WATER	2.39	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	1.80	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.141	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	1.99	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	1.89	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	2.25	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	1.89	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112809	WATER	1.97	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112810	WATER	1.78	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112811	WATER	18.8	1.0	1.00			07/12/08		ASPB
LDUP		1118489	WATER	19.5	1.0	1.00			07/12/08		
SPK1		1118490	WATER	23.6	1.0	1.00			07/12/08		
ESMP	R2844650	1112812	WATER	0.479	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112871	WATER	1.43	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112872	WATER	1.39	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112874	WATER	1.67	1.0	1.00			07/12/08	QC	ASPB
LDUP		1118491	WATER	1.79	1.0	1.00			07/12/08		
SPK1		1118492	WATER	9.71	1.0	1.00			07/12/08		
ESMP	R2844650	1113426	WATER	1.66	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113427	WATER	1.93	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113428	WATER	2.72	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113429	WATER	1.43	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113430	WATER	1.35	1.0	1.00			07/13/08		ASPB

Records printed: 29

** SEQUENCE **

071108B Fri Jul 11 17:29:35 2008

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	CCV	tocl	Chk. 5	4	1.000	0	1.00	No	
2	CCB	tocl	Chk. 5	4	1.000	0	1.00	No	
3	LCS	tocl	Chk. 5	4	1.000	0	1.00	No	
4	1106783 R-44321	tocl	Sample	4	1.000	0	1.00	No	
5	1106786	tocl	Sample	4	1.000	0	1.00	No	
6	1106790	tocl	Sample	4	1.000	0	1.00	No	
7	1106791	tocl	Sample	4	1.000	0	1.00	No	
8	1106791 DUP	tocl	Sample	4	1.000	0	1.00	No	
9	1106791 SPK	tocl	Sample	4	1.000	0	1.00	No	
10	1111763 R-44538	tocl	Sample	4	1.000	0	1.00	No	
11	1111764	tocl	Sample	4	1.000	0	1.00	No	
12	1111765	tocl	Sample	4	1.000	0	1.00	No	
13	1112065 R-44650	tocl	Sample	4	1.000	0	1.00	No	
14	1112066	tocl	Sample	4	1.000	0	1.00	No	
15	1112067	tocl	Sample	4	1.000	0	1.00	No	
16	CCV	tocl	Chk. 5	4	1.000	0	1.00	No	
17	CCB	tocl	Chk. 5	4	1.000	0	1.00	No	
18	1112486	tocl	Sample	4	1.000	0	1.00	No	
19	1112487	tocl	Sample	4	1.000	0	1.00	No	
20	1112488	tocl	Sample	4	1.000	0	1.00	No	
21	1112489	tocl	Sample	4	1.000	0	1.00	No	
22	1112809	tocl	Sample	4	1.000	0	1.00	No	
23	1112810	tocl	Sample	4	1.000	0	1.00	No	
24	1112811	tocl	Sample	4	1.000	0	1.00	No	
25	1112811 DUP	tocl	Sample	4	1.000	0	1.00	No	
26	1112811 SPK	tocl	Sample	4	1.000	0	1.00	No	
27	1112812	tocl	Sample	4	1.000	0	1.00	No	
28	1112871	tocl	Sample	4	1.000	0	1.00	No	
29	1112872	tocl	Sample	4	1.000	0	1.00	No	
30	CCV	tocl	Chk. 5	4	1.000	0	1.00	No	
31	CCB	tocl	Chk. 5	4	1.000	0	1.00	No	
32	LCS	tocl	Chk. 5	4	1.000	0	1.00	No	
33	1112874	tocl	Sample	4	1.000	0	1.00	No	
34	1112874 DUP	tocl	Sample	4	1.000	0	1.00	No	
35	1112874 SPK	tocl	Sample	4	1.000	0	1.00	No	
36	1113042 R-44734	tocl	Sample	4	1.000	0	1.00	No	
37	1113043	tocl	Sample	4	1.000	0	1.00	No	
38	1113044	tocl	Sample	4	1.000	0	1.00	No	
39	1113045	tocl	Sample	4	1.000	0	1.00	No	
40	1113046	tocl	Sample	4	1.000	0	1.00	No	
41	1113046 DUP	tocl	Sample	4	1.000	0	1.00	No	
42	1113046 SPK	tocl	Sample	4	1.000	0	1.00	No	
43	1113047	tocl	Sample	4	1.000	0	1.00	No	
44	1113048	tocl	Sample	4	1.000	0	1.00	No	

Analysts: CW
CS
Pipets: TOC/TOX
WAYNE

 ** SEQUENCE **

071108B Fri Jul 11 17:29:35 2008

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
45	1113426 R-44650	toc1	Sample	4	1.000	0	1.00	No	
46	1113427	toc1	Sample	4	1.000	0	1.00	No	
47	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
48	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	
49	1113428	toc1	Sample	4	1.000	0	1.00	No	
50	1113429	toc1	Sample	4	1.000	0	1.00	No	
51	1113430	toc1	Sample	4	1.000	0	1.00	No	
52	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
53	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	

Columbia Analytical Svcs.
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 585-288-5380

OI Analytical Model 1010

TOC BY EPA 410.1 / 9000 /
 SM20 5310 C

Sample Information:

Sample #: 1
 Sample Name: CCV
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711001.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	17:42	17993	19.049	18.585
2	17:51	19829	21.036	20.523
3	18:00	19649	20.841	20.333
4	18:10	19666	20.860	20.351
Avg.		19284	20.446	19.948
Std. Dev		864.65		
RSD (%)		4.48		

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*** = modified '-' = unused

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Sample Information:

Sample #: 2
 Sample Name: CCB
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711002.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:19	270	-0.129	-0.126
2	18:29	239	-0.162	-0.158
3	18:38	236	-0.166	-0.162
4	18:47	249	-0.152	-0.148
Avg.		249	-0.152	-0.148
Std. Dev		15.37		
RSD (%)		6.19		

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TOC by EPA 415.1 / 9060
 OI Analytical Model 1010

Sample Information:

Sample #: 3
 Sample Name: LCS
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11 Jul 2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711003.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:57	10128	10.538	10.281
2	19:07	10156	10.569	10.311
3	19:16	10186	10.601	10.343
4	19:25	10183	10.598	10.339
Avg.		10163	10.577	10.319
Std. Dev		27.10		
RSD (%)		0.27		

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Sample Information:

Sample #: 4
 Sample Name: 1106783 R-44321
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711004.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208H
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	19:35	487	0.318	0.310
2	19:45	478	0.308	0.301
3	19:54	542	0.378	0.368
4	20:03	487	0.318	0.310
Avg.		499	0.331	0.323
Std. Dev		29.31		
RSD (%)		5.88		

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100 BY EPA 410.1 / 5000
 OI Analytical Model 1010

Sample Information:

Sample #: 5
 Sample Name: 1106786
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711005.rtl

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	20:13	988	0.860	0.839
2	20:22	993	0.866	0.845
3	20:32	977	0.848	0.828
4	20:41	1014	0.888	0.867
Avg.		993	0.866	0.845
Std. Dev		15.51		
RSD (%)		1.56		

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IOC by EPA 415.1 / 9060
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Sample Information:

Sample #: 6
 Sample Name: 1106790
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711006.rit

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	20:51	537	0.372	0.363
2	21:00	515	0.348	0.340
3	21:10	508	0.341	0.333
4	21:19	521	0.355	0.346
Avg.		520	0.354	0.345
Std. Dev		12.37		
RSD (%)		2.38		

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02820

Columbia Analytical Svcs.
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 585-288-5380

Sample Information:

Sample #: 7
 Sample Name: 1106791
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711007.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	21:29	2482	2.477	2.417
2	21:38	2456	2.449	2.389
3	21:47	2546	2.546	2.484
4	21:57	2473	2.467	2.407
Avg.		2489	2.485	2.424
Std. Dev		39.34		
RSD (%)		1.58		

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*** = modified '...' = unused

Columbia Analytical Svcs.
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Sample Information:

Sample #: 8
Sample Name: 1106791 DUP
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 11Jul2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711008.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	22:07	2360	2.345	2.288
2	22:16	2332	2.315	2.258
3	22:25	2416	2.406	2.347
4	22:35	2354	2.338	2.281
Avg.		2366	2.351	2.294
Std. Dev		35.75		
RSD (%)		1.51		

OK
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"" = modified '-' = unused

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LOC by EPA 415.1 / 9060
 OI Analytical Model 1010

Sample Information:

Sample #: 9
 Sample Name: 1106791 SPK
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Repts: 4
 Date: 11Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711009.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	22:44	11909	12.678	12.369
2	22:54	12297	13.098	12.778
3	23:03	11997	12.773	12.462
4	23:12	11943	12.715	12.405
Avg.		12037	12.816	12.503
Std. Dev		177.41		
RSD (%)		1.47		

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Columbia Analytical Svcs.
 1 Mustard Street
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 585-288-5380

TOC by EPA 415.1 / 9060
 OI Analytical Model 1010

Sample Information:

Sample #: 10
 Sample Name: 1111763
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711010.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	23:22	2057	2.017	1.968
2	23:32	2208	2.180	2.127
3	23:41	2255	2.231	2.177
4	23:50	2275	2.253	2.198
Avg.		2199	2.170	2.117
Std. Dev		98.58		
RSD (%)		4.48		

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Sample Information:

Sample #: 11
 Sample Name: 1111764
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Repts: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711011.rtt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	00:00	1925	1.874	1.828
2	00:10	2091	2.054	2.004
3	00:19	2125	2.091	2.040
4	00:28	2108	2.072	2.022

Avg. 2062
 Std. Dev 92.55
 RSD (%) 4.49

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Sample Information:

Sample #: 12
 Sample Name: 1111765
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711012.rit

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	00:38	2448	2.440	2.381
2	00:47	2610	2.615	2.552
3	00:57	2704	2.717	2.651
4	01:06	2648	2.657	2.592
Avg.		2603	2.607	2.544
Std. Dev		110.00		
RSD (%)		4.23		

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Sample Information:

Sample #: 13
 Sample Name: 1112065 R-44650
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711013.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	01:16	2386	2.373	2.315
2	01:25	2455	2.448	2.388
3	01:35	2496	2.492	2.431
4	01:44	2492	2.488	2.427
Avg.		2457	2.450	2.390
Std. Dev		50.96		
RSD (%)		2.07		

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Sample Information:

Sample #: 14
 Sample Name: 1112066
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711014.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	01:54	1826	1.767	1.724
2	02:03	1887	1.833	1.788
3	02:12	1960	1.912	1.865
4	02:22	1936	1.886	1.840
Avg.		1902	1.850	1.804
Std. Dev		59.22		
RSD (%)		3.11		

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IOC by EPA 413.1 / 9090
 OI Analytical Model 1010

Sample Information:

Sample #: 15
 Sample Name: 1112067
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711015.rit

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	02:32	389	0.212	0.207
2	02:41	324	0.142	0.138
3	02:50	293	0.108	0.106
4	03:00	301	0.117	0.114
AVG.		327	0.145	0.141
Std. Dev		43.53		
RSD (%)		13.32		

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Sample Information:

Sample #: 16
 Sample Name: CCV
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711016.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	03:09	18342	19.427	18.953
2	03:19	19343	20.510	20.010
3	03:28	19316	20.481	19.981
4	03:37	19540	20.723	20.218

Avg. 19135
 Std. Dev 538.18
 RSD (%) 2.81

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Sample Information:

Sample #: 17
 Sample Name: CCB
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711017.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	03:47	239	-0.162	-0.158
2	03:57	279	-0.119	-0.116
3	04:06	225	-0.178	-0.173
4	04:15	255	-0.145	-0.142
Avg.		250	-0.151	-0.147
Std. Dev		23.17		
RSD (%)		9.29		

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Sample Information:

Sample #: 18
 Sample Name: 1112486
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12.Jul.2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711018.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	04:25	1933	1.883	1.837
2	04:34	2055	2.015	1.966
3	04:44	2155	2.123	2.071
4	04:53	2169	2.138	2.086
Avg.		2078	2.040	1.990
Std. Dev		109.18		
RSD (%)		5.25		

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Sample Information:

Sample #: 19
 Sample Name: 1112487
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711019.rit

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	05:03	1920	1.869	1.823
2	05:12	1933	1.883	1.837
3	05:22	1984	1.938	1.891
4	05:31	2089	2.052	2.002

Avg. 1982
 Std. Dev 76.80
 RSD (%) 3.88

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TOC BY EPA 410.1 / 9000
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Sample Information:

Sample #: 20
 Sample Name: 1112488
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711020.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	05:41	2229	2.203	2.149
2	05:50	2298	2.278	2.222
3	05:59	2365	2.350	2.293
4	06:09	2394	2.382	2.324
Avg.		2322	2.303	2.247
Std. Dev		73.61		
RSD (%)		3.17		

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Sample Information:

Sample #: 21
Sample Name: 1112489
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711021.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	06:19	1839	1.781	1.738
2	06:28	1890	1.836	1.792
3	06:37	2008	1.964	1.916
4	06:47	2204	2.176	2.123
Avg.		1985	1.939	1.892
Std. Dev		162.10		
RSD (%)		8.17		

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Sample Information:

Sample #: 22
Sample Name: 1112809
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711022.rtf

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	06:56	1968	1.921	1.874
2	07:06	2029	1.987	1.938
3	07:15	2102	2.066	2.015
4	07:24	2123	2.088	2.038
Avg.		2056	2.015	1.966
Std. Dev		70.89		
RSD (%)		3.45		

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Sample Information:

Sample #: 23
 Sample Name: 1112810
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711023.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	07:34	1733	1.666	1.626
2	07:44	1899	1.846	1.801
3	07:53	1922	1.871	1.825
4	08:02	1950	1.901	1.855
Avg.		1876	1.821	1.777
Std. Dev		97.59		
RSD (%)		5.20		

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Sample Information:

Sample #: 24
 Sample Name: 1112811
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711024.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	08:12	16876	18.053	17.612
2	08:21	18463	19.770	19.288
3	08:31	18135	19.415	18.941
4	08:40	18642	19.964	19.477
Avg.		18029	19.300	18.830
Std. Dev		796.82		
RSD (%)		4.42		

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Sample Information:

Sample #: 25
Sample Name: 1112811 DUP
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711025.rtf

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	08:50	17888	19.148	18.681
2	08:59	18542	19.855	19.371
3	09:09	19226	20.596	20.093
4	09:18	18876	20.217	19.724

Avg. 18633
Std. Dev 569.80
RSD (%) 3.06

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OL Analytical Model 1010

Sample Information:

Sample #: 26
 Sample Name: 1112811 SPK
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711026.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	09:28	22564	24.208	23.617
2	09:37	23469	25.187	24.573
3	09:46	22703	24.358	23.764
4	09:56	24124	25.896	25.264
Avg.		23215	24.912	24.304
Std. Dev		724.97		
RSD (%)		3.12		

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Sample Information:

Sample #: 27
 Sample Name: 1112812
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711027.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	10:06	858	0.720	0.702
2	10:15	643	0.487	0.475
3	10:24	587	0.426	0.416
4	10:34	498	0.330	0.322
Avg.		647	0.491	0.479
Std. Dev		153.12		
RSD (%)		23.68		

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Sample Information:

Sample #: 28
 Sample Name: 1112871
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711028.rtt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	10:44	1459	1.370	1.337
2	10:53	1537	1.454	1.419
3	11:02	1552	1.471	1.435
4	11:12	1652	1.579	1.540
Avg.		1550	1.468	1.433
Std. Dev		79.28		
RSD (%)		5.12		

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Sample Information:

Sample #: 29
Sample Name: 1112872
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711029.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	11:21	1430	1.339	1.306
2	11:31	1492	1.406	1.371
3	11:40	1570	1.490	1.454
4	11:49	1547	1.465	1.429
Avg.		1510	1.425	1.390
Std. Dev		62.43		
RSD (%)		4.14		

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OL Analytical Model 1010
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Sample Information:

Sample #: 30
 Sample Name: CCV
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711030.nt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	11:59	17707	18.740	18.283
2	12:08	19266	20.427	19.928
3	12:18	19693	20.889	20.379
4	12:27	19487	20.666	20.162
Avg.		19038	20.180	19.688
Std. Dev		904.46		
RSD (%)		4.75		

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Sample Information:

Sample #: 31
 Sample Name: CCB
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711031.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	12:37	314	-0.081	-0.079
2	12:46	271	-0.128	-0.125
3	12:56	291	-0.106	-0.104
4	13:05	242	-0.159	-0.155
Avg.		280	-0.119	-0.116
Std. Dev		30.56		
RSD (%)		10.93		

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Sample Information:

Sample #: 32
 Sample Name: LCS
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711032.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	13:15	9296	9.638	9.403
2	13:24	9677	10.050	9.805
3	13:34	9827	10.213	9.964
4	13:43	9749	10.128	9.881
Avg.		9637	10.007	9.763
Std. Dev		235.60		
RSD (%)		2.44		

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Sample Information:

Sample #: 33
 Sample Name: 1112874
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711033.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	13:53	1728	1.661	1.621
2	14:02	1727	1.660	1.619
3	14:11	1800	1.739	1.697
4	14:21	1846	1.789	1.745
Avg.		1775	1.712	1.670
Std. Dev		58.25		
RSD (%)		3.28		

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Sample Information:

Sample #: 34
 Sample Name: 1112874 DUP
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711034.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	14:31	1845	1.788	1.744
2	14:40	1830	1.771	1.728
3	14:49	1946	1.897	1.851
4	14:59	1942	1.893	1.846
Avg.		1891	1.837	1.792
Std. Dev		61.81		
RSD (%)		3.27		

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Sample Information:

Sample #: 35
Sample Name: 1112874 SPK
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711035.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	15:09	8693	9.198	8.974
2	15:18	9217	9.765	9.527
3	15:27	9316	9.872	9.631
4	15:37	10338	10.978	10.710

Avg. 9391
Std. Dev 687.97
RSD (%) 7.33

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Sample Information:

Sample #: 36
 Sample Name: 1113042 R-44734
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711036.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	15:47	1079	0.959	0.935
2	15:56	1107	0.989	0.965
3	16:05	1312	1.211	1.181
4	16:15	1197	1.086	1.060
Avg.		1174	1.061	1.035
Std. Dev		105.02		
RSD (%)		8.95		

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Sample Information:

Sample #: 37
 Sample Name: 1113043
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711037.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	16:24	4818	5.005	4.883
2	16:34	4838	5.026	4.904
3	16:43	4916	5.111	4.986
4	16:52	4876	5.067	4.944

Avg. 4862
 Std. Dev 43.30
 RSD (%) 0.89

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Sample Information:

Sample #: 38
Sample Name: 1113044
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711038.rtf

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	17:02	871	0.734	0.716
2	17:12	815	0.673	0.657
3	17:21	755	0.608	0.593
4	17:30	766	0.620	0.605

Avg. 802
Std. Dev 53.02
RSD (%) 6.61

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Sample Information:

Sample #: 39
 Sample Name: 1113045
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711039.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	17:40	2227	2.201	2.147
2	17:50	2350	2.334	2.277
3	17:59	2581	2.584	2.521
4	18:08	2403	2.391	2.333

Avg. 2390
 Std. Dev 146.99
 RSD (%) 6.15

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Sample Information:

Sample #: 40
 Sample Name: 1113046
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711040.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:18	1712	1.644	1.604
2	18:28	1731	1.664	1.624
3	18:37	1816	1.756	1.713
4	18:46	1788	1.726	1.684
Avg.		1762	1.698	1.656
Std. Dev		48.49		
RSD (%)		2.75		

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TOC BY EPA 410.1 / 9000 /
 SM20 5310 C

Sample Information:

Sample #: 1
 Sample Name: 1113046 DUP
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Repts: 4
 Date: 12-Jul-2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711041.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:56	1774	1.711	1.669
2	19:05	1822	1.763	1.720
3	19:15	1874	1.819	1.775
4	19:24	1858	1.802	1.758
Avg.		1832	1.774	1.730
Std. Dev		44.36		
RSD (%)		2.42		

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Sample Information:

Sample #: 2
 Sample Name: 1113046 SPK
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711042.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	19:34	11568	12.309	12.009
2	19:43	11619	12.364	12.063
3	19:53	11566	12.307	12.007
4	20:02	11507	12.243	11.944
Avg.		11565	12.306	12.006
Std. Dev		45.79		
RSD (%)		0.40		

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Sample Information:

Sample #: 3
 Sample Name: 1113047
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711043.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	20:12	17189	18.391	17.943
2	20:21	17360	18.576	18.123
3	20:31	17744	18.992	18.529
4	20:40	17716	18.962	18.499
Avg.		17502	18.730	18.274
Std. Dev		272.33		
RSD (%)		1.56		

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Sample Information:

Sample #: 4
Sample Name: 1113048
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711044.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	20:50	5207	5.426	5.293
2	20:59	4967	5.166	5.040
3	21:08	4943	5.140	5.015
4	21:18	4927	5.123	4.998

Avg. 5011
Std. Dev 131.70
RSD (%) 2.63

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Sample Information:

Sample #: 5
 Sample Name: 1113426 R-44650
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711045.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	21:28	1713	1.645	1.605
2	21:37	1830	1.771	1.728
3	21:46	1791	1.729	1.687
4	21:56	1727	1.660	1.619

Avg. 1765
 Std. Dev 54.92
 RSD (%) 3.11

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Sample Information:

Sample #: 6
 Sample Name: 1113427
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711046.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	22:06	1950	1.901	1.855
2	22:15	2017	1.974	1.926
3	22:24	2101	2.065	2.014
4	22:34	2030	1.988	1.939
Avg.		2025	1.982	1.934
Std. Dev		61.88		
RSD (%)		3.06		

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Sample Information:

Sample #: 7
 Sample Name: CCV
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711047.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	22:43	18816	19.940	19.453
2	22:53	19503	20.683	20.179
3	23:02	19569	20.755	20.248
4	23:11	19822	21.028	20.515
Avg.		19428	20.601	20.099
Std. Dev		430.23		
RSD (%)		2.21		

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Sample Information:

Sample #: 8
 Sample Name: CCB
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711048.rit

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	23:21	359	-0.033	-0.032
2	23:31	304	-0.092	-0.090
3	23:40	276	-0.122	-0.119
4	23:49	228	-0.174	-0.170

Avg. 292
 Std. Dev 54.73
 RSD (%) 18.76

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Sample Information:

Sample #: 9
 Sample Name: 1113428
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711049.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	23:59	2742	2.758	2.691
2	00:09	2728	2.743	2.676
3	00:18	2812	2.834	2.765
4	00:27	2806	2.828	2.759
Avg.		2772	2.791	2.723
Std. Dev		43.17		
RSD (%)		1.56		

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Sample Information:

Sample #: 10
 Sample Name: 1113429
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 13Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711050.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	00:37	1490	1.403	1.369
2	00:47	1527	1.444	1.408
3	00:56	1567	1.487	1.451
4	01:05	1613	1.537	1.499
Avg.		1549	1.468	1.432
Std. Dev		52.87		
RSD (%)		3.41		

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Sample Information:

Sample #: 11
 Sample Name: 1113430
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 13Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711051.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	01:15	1401	1.307	1.275
2	01:25	1505	1.420	1.385
3	01:34	1482	1.395	1.361
4	01:43	1497	1.411	1.377
Avg.		1471	1.383	1.349
Std. Dev		47.79		
RSD (%)		3.25		

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Sample Information:

Sample #: 12
Sample Name: CCV
Run Type: CHK STD 5
Analysis Mode: TOC
Total Repts: 4
Date: 13Jul2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711052.rlt

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	01:53	18402	19.492	19.016
2	02:02	19154	20.305	19.810
3	02:12	19575	20.761	20.255
4	02:21	19546	20.730	20.224

Avg. 19169
Std. Dev 546.35
RSD (%) 2.85

OK
CS
7/14/08

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 13
Sample Name: CCB
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 13.Jul.2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711053.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208r1
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	02:31	270	-0.129	-0.126
2	02:40	232	-0.170	-0.166
3	02:50	217	-0.186	-0.182
4	02:59	269	-0.130	-0.127
Avg.		247	-0.154	-0.150
Std. Dev		26.70		
RSD (%)		10.81		

OK
C5
7/14/08

** = modified ' ' = unused

General Chemistry Analytical Run Cover Sheet

Analyst: C. Woods C. Schraeder

Date: 7-11-08

Analysis: Total Inorganic Carbon, 415.1/9060
 High Level: 1.0 to 30.0 ppm

Instrument: OI Analytical Model 1010 TOC Analyzer

Quality Control:

	Log#, Date,	Stocks Prep. Log#, Date,	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:	WC86003A, 2/12/08	WC86002B, 2/12/08				
b) I/CCV Preparation:	WC86003D, 2/12/08	WC86002C, 2/12/08	4.0	1000	200	20.00
c) LCS Preparation:	WC86003B, 2/12/08	WC86002B, 2/12/08	1.0	1000	100	10.00
d) Matrix Spike Prep.:	WC86003C, 2/12/08	WC86002B, 2/12/08	0.42	1000	42	10.00

Instrument log filled in? (Y) (N)

Comments:

Curve Date = 02/13/2008

Note: Dilutions greater than 1/1 are placed in the "comments" section of the Model 1010 Analyzer report.
 The "Dilution Factor" on the Model 1010 will always read "1.00"
 TOC results on the Model 1010 Analyzer reports do not include the dilution factor.
 Final results on the Starlims run and final report include the dilution factor.

** SEQUENCE **

021308TIC Wed Feb 13 15:29:35 2008

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	0.0 PPM	tic	Std. 1	3	1.000	0	1.00	No	
2	1.0 PPM	tic	Std. 2	3	1.000	0	1.00	No	
3	5.0 PPM	tic	Std. 3	3	1.000	0	1.00	No	
4	10.0 PPM	tic	Std. 4	3	1.000	0	1.00	No	
5	30.0 PPM	tic	Std. 5	3	1.000	0	1.00	No	
6	ICV	tic	Chk. 1	3	1.000	0	1.00	No	
7	ICB	tic	Chk. 1	3	1.000	0	1.00	No	
8	LCS	tic	Chk. 1	3	1.000	0	1.00	No	
9	LCS	tic	Chk. 1	2	1.000	0	1.00	No	
10	LCS	tic	Chk. 1	2	1.000	0	1.00	No	
11	LCS	tic	Chk. 1	2	1.000	0	1.00	No	
12	1070336	tic	Sample	2	1.000	0	1.00	No	4
13	1070336 DUP	tic	Sample	2	1.000	0	1.00	No	4
14	1070336	tic	Sample	2	1.000	0	1.00	No	
15	CCV	tic	Chk. 5	2	1.000	0	1.00	No	
16	CCB	tic	Chk. 1	2	1.000	0	1.00	No	

Analyst: C Woods
Pipets: TOC/TOX
WAYNE

1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 1
Sample Name: 0.0 PPM
Run Type: STD 1
Analysis Mode: TIC
Total Reps: 3
Date: 13Feb2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0213001.rtf

Method Name: tic
Sequence Name: 021308tic
Calibration Name: 021308tic
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	10:54	374	0.000	0.000
2	11:00	343	0.000	0.000
3	11:06	344	0.000	0.000
Avg.		354	0.000	0.000
Std. Dev		17.62		
RSD (%)		4.98		

02870

OI Analytical SVCS.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

TOC by EPA 415.1 / 9060
 OI Analytical Model 1010

Sample Information:

Sample #: 2
 Sample Name: 1.0 PPM
 Run Type: STD 2
 Analysis Mode: TIC
 Total Reps: 3
 Date: 13Feb2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0213002.rtf

Method Name: tic
 Sequence Name: 021308tic
 Calibration Name: 021308tic
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	11:13	1591	1.025	1.000
2	11:19	1528	1.025	1.000
3	11:25	1615	1.025	1.000
Avg.		1578	1.025	1.000
Std. Dev		44.93		
RSD (%)		2.85		

*** = modified '...' = unused

Columbia Analytical Svcs.
 Mustard Street
 Rochester, NY. 14609
 185-288-5380

TOC by EPA 415.1 / 9060
 OI Analytical Model 1010

Sample Information:

Sample #: 3
 Sample Name: 5.0 PPM
 Run Type: STD 3
 Analysis Mode: TIC
 Total Reps: 3
 Date: 13Feb2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0213003.rtf

Method Name: tic
 Sequence Name: 021308tic
 Calibration Name: 021308tic
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	11:32	5094	5.125	5.000
2	11:38	4663	5.125	5.000
3	11:44	5171	5.125	5.000
Avg.		4976	5.125	5.000
Std. Dev		273.79		
RSD (%)		5.50		

OK
02/13/08

92872

'*' = modified '-' = unused

1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

Sample Information:

Sample #: 4
 Sample Name: 10.0 PPM
 Run Type: STD 4
 Analysis Mode: TIC
 Total Reps: 3
 Date: 13Feb2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0213004.rft

Method Name: tic
 Sequence Name: 021308tic
 Calibration Name: 021308tic
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	11:50	9578	10.250	10.000
2	11:56	9226	10.250	10.000
3	12:03	9696	10.250	10.000
Avg.		9500	10.250	10.000
Std. Dev		244.52		
RSD (%)		2.57		

OK
2/13/08

Mustard Street
Rochester, NY. 14609
85-288-5380

Sample Information:

Sample #: 5
Sample Name: 30.0 PPM
Run Type: STD 5
Analysis Mode: TIC
Total Reps: 3
Date: 13Feb2008
Dilution Factor: 1.00
Comments:

Operator Name: Unknown
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0213005.rft

Method Name: tic
Sequence Name: 021308tic
Calibration Name: 021308tic
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	12:09	27224	30.750	30.000
2	12:15	25310	30.750	30.000
3	12:21	26663	30.750	30.000
Avg.		26399	30.750	30.000
Std. Dev		983.93		
RSD (%)		3.73		

OK
JW
2/13/08

** = modified ' ' = unused

WinToc Analytical Svcs.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

TOC by EPA 415.1 / 9060
 OI Analytical Model 1010

Sample Information:

Sample #: 6
 Sample Name: ICV
 Run Type: CHK STD 1
 Analysis Mode: TIC
 Total Reps: 3
 Date: 13Feb2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0213006.rtt

Method Name: tic
 Sequence Name: 021308tic
 Calibration Name: 021308tic
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	13:10	17958	20.582	20.080
2	13:16	17656	20.223	19.730
3	13:22	17642	20.207	19.714
Avg.		17752	20.337	19.841
Std. Dev		178.54		
RSD (%)		1.01		

OK
 J 2/13/08

OI Analytical Svcs.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

TOC by EPA 415.1 / 9060
 OI Analytical Model 1010

Sample Information:

Sample #: 7
 Sample Name: ICB
 Run Type: CHK STD 1
 Analysis Mode: TIC
 Total Reps: 3
 Date: 13Feb2008
 Dilution Factor: 1.00
 Comments:

Operator Name: Unknown
 Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0213007.rtt

Method Name: tic
 Sequence Name: 021308tic
 Calibration Name: 021308tic
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	13:29	204	-0.488	-0.476
2	13:35	184	-0.512	-0.499
3	13:41	205	-0.487	-0.475
Avg.		198	-0.496	-0.483
Std. Dev		11.85		
RSD (%)		5.99		

OK
2/2/08

02876

*** = modified ' ' = unused

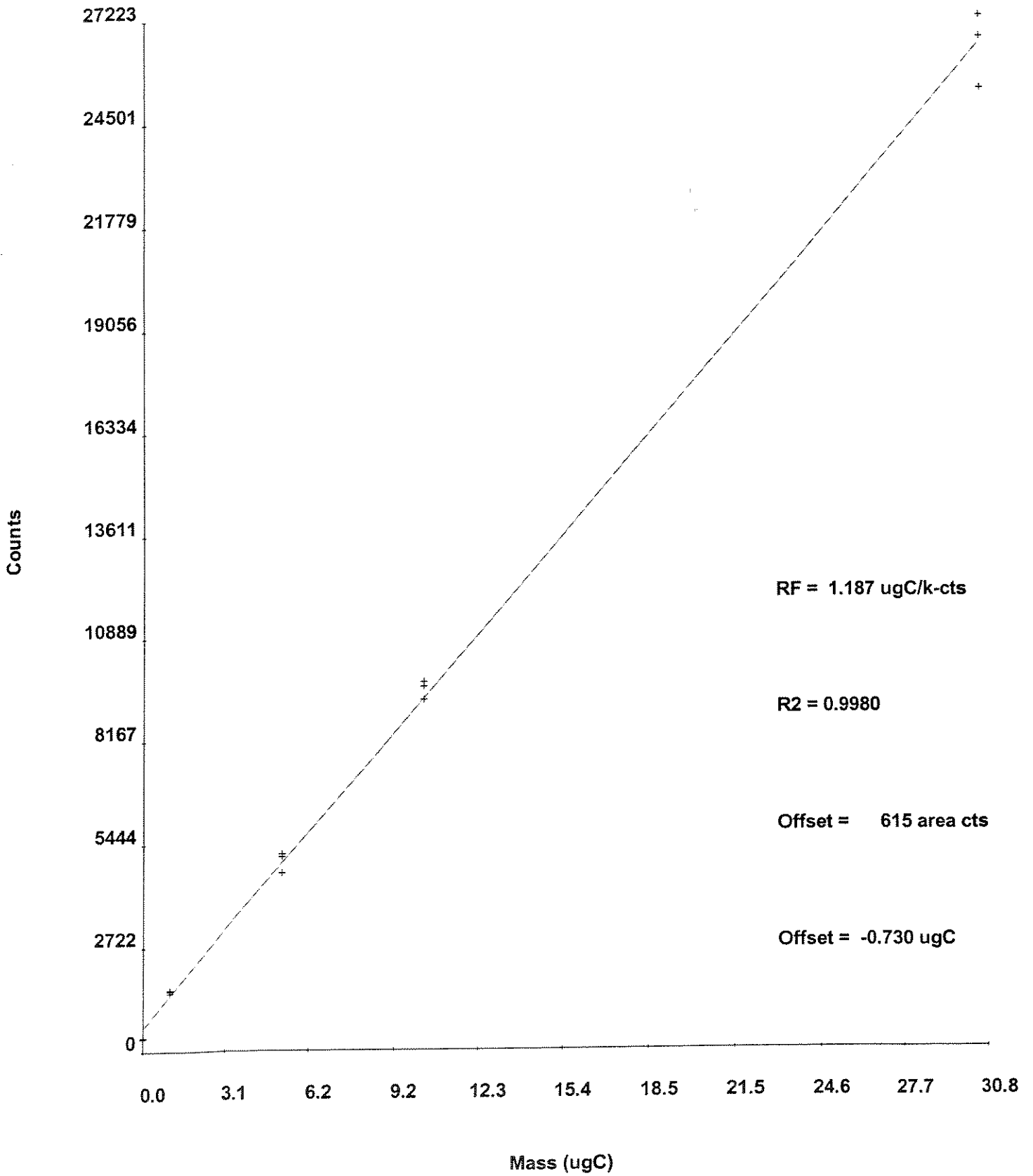
 ** CALIBRATION **

021308TIC Wed Feb 13 12:21:51 2008

Std. #	Used	Conc. (ppm)	Volume (mL)	RF (ugC/k-cts):	1.187
1	Yes	0.000	1.000	R-Squared:	0.9980
2	Yes	1.000	1.000	Offset (cts):	615
3	Yes	5.000	1.000	Offset (ugC):	-0.730
4	Yes	10.000	1.000	Calibration Mode:	TIC
5	Yes	30.000	1.000	Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	
1	374	1591	5094	9578	27224	
2	343	1528	4663	9226	25310	
3	344	1615	5171	9696	26663	
4	-	-	-	-	-	
5	-	-	-	-	-	(* = unused)
6	-	-	-	-	-	
7	-	-	-	-	-	
8	-	-	-	-	-	
9	-	-	-	-	-	
10	-	-	-	-	-	

Calibration - 021308TIC (TIC, 13Feb2008 12:21)



Cmw TOC Soil's Continued

11-27-07

① Matrix Spike

To 8-12mg of sample add 20 μ L of 10000ppm Standard Stock (WC86001A). More or less sample can be used depending on its concentration. True value depends on sample mass:

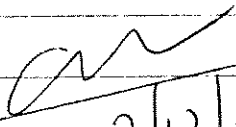
$$TV = \frac{\text{mass, } \mu\text{g} \times (20\mu\text{L})(10000\text{ppm})}{\text{(sample mass, } \mu\text{g)}}$$

Cmw ② 1000ppm TIC Standard Stock

2-12-08 Dissolve 0.8824g Na₂CO₃ (WC76232D) in 100mL Volumetric flask w/ UPDI. Bring to volume w/ UPDI. Store @ RT in amber glass. Exp 1 year (2-12-09).

③ 1000ppm TIC Reference Stock

Dissolve 0.8824g Na₂CO₃ (WC76294G) in 100mL Volumetric flask w/ UPDI. Bring to volume w/ UPDI. Store @ RT in amber glass. Exp 1 year (2-12-09).


2/12/08

Continued on Page _____

Approved
Sireva

Read and Understood By _____

Signed _____

Date _____

Signed _____

Date _____

PROJECT _____

amw
2/12/08
① TIC Calibration Standards for
OI model 1010 Analyzer - make fresh per
calibration

<u>Std. Conc (mg/L)</u>	<u>mls 1000ppm Std</u> <u>(WC860002B)</u>	<u>Final Volume (mls UPDI)</u>
0.00	0.000	100
1.00	0.100	↓
5.00	0.500	
10.00	1.000	
30.00	3.000	

② TIC LCS

Dilute 1ml of 1000 ppm TIC Standard (WC860002B)
to 100mls with UPDI. Prepare fresh each
run. TV=10ppm

③ TIC Matrix Spike

Add 0.42mls of 1000ppm Standard Stock (WC860002B)
to 42mls of sample. TV=10ppm

④ TIC ICV/CCV

Dilute 4mls of 1000 ppm Reference Stock (WC860002C)
to 200mls w/ UPDI. Prepare fresh each run. TV=20ppm.

Continued on Page _____

Read and Understood By _____

Signed _____

Date _____

Signed _____

Date _____

1/18/07

BB

Received from VWR

- (A) (10) x 100 Blue Microfibre filters, Whatman
Cat# 1827047, Lot # G1894307. Store in drawer
@ Solid bench
- (B) (1) x 100g Potassium Dichromate, Cat # PX1445-11,
EMD Lot # 45251652, CAS# 7778-50-9. Store @ R.T.
Expires 1/18/10
- (C) (1) x 2.5 Kg Sodium Hydroxide pellets, Cat # SX0590-14,
EMD Lot # 46193633, CAS# 1310-73-2. Store @ R.T.
Expires 1/18/10
- (D) (4) x 500g Sodium Carbonate Anhydrous, Cat# SX0395-1,
EMD Lot # 46212637, CAS# 497-19-8. Store @ R.T.
Expires 1/18/10

1/19/07

Nm

(E) NH₄OH Buffer - TDTN + NO₂

- same as WC762016. Exp. 1 year, 1/19/08.

(F) Silica Color Reagent

- same as WC76218H. Exp. 1 month, 2/19/07.

1/19/07

BB

Received from VWR

- (G) (1) x 100 mL Phenol Std Soln, 1000 mg/L, Cat# H302-01,
Mallinckrodt Lot # C41790, CAS# 108-95-2. Store @ 4°C.
Expires 1/19/08

Received from Andrew Scientific

- (H) (1) x 125 mL Phenol Std. Soln, 1000 mg/L.
Cat# LC18330-7, LabChem Lot# 6215-01, CAS# 108-95-2.
Store @ 4°C. Expires 8/9/08

6/20/07 (A) Hypochlorite - NH_3
NM - 300 mL UPDI
- 300 mL Sodium Hypochlorite (W676285F)
Prepare fresh each run.

6/20/07 (B) Crbt Color Reagent - Aquakem
TC 0.25g 1,5-diphenylcarbonylhydrazide (W676144C)
brought up to 50 mLs volumetrically w/
Acetone (W676060F). Dissolve thoroughly.
Exp. 1 month, 7/20/07,

6/20/07 (C) Color Reagent - Phenols
AB Same as W676179D, except Brij is W676271I.
Expires 7/04/07.

6/20/07 Received from VWR

(D) (1) x 1kg Magnesium Chloride $\cdot 6\text{H}_2\text{O}$, Cat# MX0045-4,
EMD Lot# 46117644, CAS# 7791-18-6. Store @ R.T.
Expires 6/20/2010

(E) (1) x 2.5 L Phosphoric Acid, Cat# PX0995-14,
EMD Lot# 47032714, CAS# 7664-38-2. Store @ R.T.
Expires 6/20/2010

(F) (1) x 500 mL Phenol Reagent, Cat# PX0511-1,
EMD Lot# 46318, CAS# 108-95-2. Store in
flammable cabinet. Expires 6/20/2010.

Received from Alfa Aesar (VWR)

(G) (1) x 100g Sodium Carbonate, Cat# 33377, AA
Lot# D19R023, CAS# 497-19-8. Store @ R.T.
Expires 6/20/2010

6/20/07 (H) TP04 Stock Ammonium Molybdate Solution

R44538
 R44650
 R44666
 36000

Run #: 163292
 Analyte: TP 365.1 PHOSPHORUS, TOTAL
 Printed: 07/02/08 11:11

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114017	WATER	1.50	1.0	0.0500	99.7		07/02/2008		
BLK1		1114019	WATER	0.0500	U	1.0	0.0500		07/02/2008		
BLK2		1114020	WATER	0.0500	U	1.0	0.0500		07/02/2008		
SPKB		1114022	WATER	0.803		1.0	0.0500	100.4	07/02/2008		
BLK2		1114023	WATER	0.0500	U	1.0	0.0500		07/02/2008		
SPKB		1114024	WATER	0.806		1.0	0.0500	100.8	07/02/2008		
ESMP	R2843432	1093427	WATER	38.6		20.0	0.0500		07/02/2008		1
ESMP	R2843432	1093430	WATER	3.24		2.0	0.0500		07/02/2008		1
ESMP	R2844538	1111763	WATER	0.0500	U	1.0	0.0500		07/02/2008	RUN	ASPB
LDUP		1114027	WATER	0.0500	U	1.0	0.0500		07/02/2008		
SPK1		1114028	WATER	0.823		1.0	0.0500	102.8	07/02/2008		
ESMP	R2844538	1111764	WATER	0.0500	U	1.0	0.0500		07/02/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER	0.110		1.0	0.0500		07/02/2008	RUN	ASPB
ESMP	R2844641	1111908	WATER	304		200.0	0.0500		07/02/2008		1
ESMP	R2844645	1111971	WATER	0.691		1.0	0.0500		07/02/2008		1
ESMP	R2844650	1112065	WATER	0.0500	U	1.0	0.0500		07/02/2008	RUN	ASPB
ESMP	R2844650	1112066	WATER	0.0500	U	1.0	0.0500		07/02/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.0500	U	1.0	0.0500		07/02/2008	RUN	ASPB
ESMP	R2843626	1096090	WATER	6.14		5.0	0.0500		07/02/2008	QC	2
LDUP		1114029	WATER	6.12		5.0	0.0500	0.27	07/02/2008		
SPK1		1114030	WATER	10.3		10.0	0.0500	103.6	07/02/2008		
ESMP	R2844647	1112012	WATER	45.9		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112013	WATER	30.0		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112014	WATER	40.0		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112015	WATER	55.6		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112016	WATER	105		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112017	WATER	177		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112018	WATER	126		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112019	WATER	113		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112028	WATER	30.9		100.0	0.0500		07/02/2008	RUN	2
LDUP		1114031	WATER	29.5		100.0	0.0500	4.55	07/02/2008		
SPK1		1114032	WATER	113		100.0	0.0500	102.4	07/02/2008		
ESMP	R2844647	1112029	WATER	28.9		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112030	WATER	32.0		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112031	WATER	44.8		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112032	WATER	60.5		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112033	WATER	108		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112034	WATER	67.9		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112035	WATER	63.8		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112111	SOLID	643		10.0	5.00		07/02/2008	RUN	2
BLK2		1114025	SOLID	5.00	U	1.0	5.00		07/02/2008		
SPKS		1114026	SOLID	78.9		1.0	5.00	98.6	07/02/2008		
ESMP	R2844647	1112112	SOLID	554		10.0	5.00		07/02/2008	RUN	2
ESMP	R2844647	1112113	WATER	303		400.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112114	WATER	127		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844666	1112361	SOIL/SEDIME	786		10.0	5.00		07/02/2008		ASPB
ESMP	R2844666	1112362	SOIL/SEDIME	743		10.0	5.00		07/02/2008	QC	ASPB
LDUP		1114035	SOIL/SEDIME	780		10.0	5.00	4.83	07/02/2008		
SPK1		1114036	SOIL/SEDIME	827		10.0	5.00	105.6	07/02/2008		
ESMP	R2844666	1112363	SOIL/SEDIME	500		10.0	5.00		07/02/2008		ASPB
ESMP	R2844666	1112364	SOIL/SEDIME	474		10.0	5.00		07/02/2008		ASPB

Reviewed & Approved

By: *CB*

Date: *7/2/08*

ANALYTE:G:\STARLIMS\ASBAR.RP1

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>RESULT</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
ESMP	R2844666	1112365	SOIL/SEDIME	103		1.0	5.00			07/02/2008		ASPB
ESMP	R2844650	1112486	WATER	0.749		1.0	0.0500			07/02/2008	RUN	ASPB
ESMP	R2844650	1112487	WATER	0.0857		1.0	0.0500			07/02/2008	RUN	ASPB
ESMP	R2844650	1112488	WATER	0.0500	U	1.0	0.0500			07/02/2008	RUN	ASPB
LDUP		1114033	WATER	0.0500	U	1.0	0.0500			07/02/2008		
SPK1		1114034	WATER	0.833		1.0	0.0500	104.2		07/02/2008		
ESMP	R2844650	1112489	WATER	0.286		1.0	0.0500			07/02/2008	RUN	ASPB
ESMP	R2844666	1113245	SOIL/SEDIME	770		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113249	SOIL/SEDIME	900		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113250	SOIL/SEDIME	796		10.0	5.00			07/02/2008	QC	ASPB
LDUP		1114037	SOIL/SEDIME	749		10.0	5.00		6.02	07/02/2008		
SPK1		1114038	SOIL/SEDIME	830		10.0	5.00	44.7		07/02/2008		
ESMP	R2844666	1113254	SOIL/SEDIME	373		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113255	SOIL/SEDIME	504		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113256	SOIL/SEDIME	921		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113257	SOIL/SEDIME	785		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113258	SOIL/SEDIME	460		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113259	SOIL/SEDIME	509		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113262	SOIL/SEDIME	779		10.0	5.00			07/02/2008		ASPB

Records printed: 70

Creator: NMEAD

Creation Date: Jul 1, 2008 14:36:21

Last Modified: Jul 2, 2008 10:16:29

Description: QC 8000 365.1 TPO4 - RUN LOG - TPO4B 0807020A

Cup #	Sample ID	Manual Dilution	Sample Type	
1	Standard A - 2.00	1.0000	CalStd	
2	Standard B - 1.00	1.0000	CalStd	
3	Standard C - 0.50	1.0000	CalStd	
4	Standard D - 0.20	1.0000	CalStd	
5	Standard E - 0.10	1.0000	CalStd	
6	Standard F - 0.05	1.0000	CalStd	
7	Standard G - 0.02	1.0000	CalStd	
8	Standard H - 0.00	1.0000	CalStd	
1	ICV TV = 1.5	1.0000	Unknown	
2	ICB	1.0000	Unknown	
3	PB-3 (6/27)	1.0000	Unknown	
4	LCS-3INORG (6/27)TV=0.8	1.0000	Unknown	
5	LCS-3 ORG (6/27) TV = 0.8	1.0000	Unknown	
6	PB-4 (6/27)	1.0000	Unknown	
7	LCS-4 INORG (6/27)	1.0000	Unknown	
8	LCS-4 ORG (6/27)	1.0000	Unknown	
9	PB-S (6/30)	1.0000	Unknown	- Bad integration - rpt @ # 90
10	PB-S INORG (6/30) TV = 80	1.0000	Unknown	
11	PB-S ORG (6/30) TV = 80	1.0000	Unknown	
12	CCV	1.0000	Unknown	
13	CCB	1.0000	Unknown	
14	CRDL - 0.10	1.0000	Unknown	
15	CRDL - 0.05	1.0000	Unknown	- Bad integration - rpt @ # 91
16	1093427-43432	1.0000	Unknown	- rpt @ # 92 1/20
17	1093430	1.0000	Unknown	- rpt @ # 93 - 1/2
18	1111763-44538	1.0000	Unknown	
19	763 DUP	1.0000	Unknown	
20	763 SPK TV = 0.8	1.0000	Unknown	
21	1111764	1.0000	Unknown	
22	1111765	1.0000	Unknown	
23	1111908-44641	5.0000	Unknown	- rpt @ # 94 - 1/100
24	CCV	1.0000	Unknown	
25	CCB	1.0000	Unknown	
26	1111971-44645	1.0000	Unknown	
27	1112065-44650	1.0000	Unknown	
28	1112066	1.0000	Unknown	
29	1112067	1.0000	Unknown	
30	1096090-43626	5.0000	Unknown	> include 1/5 dil @ dig est
31	090 DUP	5.0000	Unknown	
32	090 SPK TV = 4.0	5.0000	Unknown	- rpt @ # 95 - 1/10

Cup #	Sample ID	Manual Dilution	Sample Type	
33	1112012-44647	100.0000	Unknown	} include 1/100 dil. @ digest
34	1112013	100.0000	Unknown	
35	1112014	100.0000	Unknown	
36	CCV	1.0000	Unknown	
37	CCB	1.0000	Unknown	
38	1112015	100.0000	Unknown	} include 1/100 dil. @ digest
39	1112016	100.0000	Unknown	
40	1112017	100.0000	Unknown	
41	1112018	100.0000	Unknown	
42	1112019	100.0000	Unknown	
43	1112028	100.0000	Unknown	
44	028 DUP	100.0000	Unknown	
45	028 SPK TV = 80.0	100.0000	Unknown	
46	1112029	100.0000	Unknown	
47	1112030	100.0000	Unknown	
48	CCV	1.0000	Unknown	
49	CCB	1.0000	Unknown	
50	1112031	100.0000	Unknown	} include 1/100 dil. @ digest
51	1112032	100.0000	Unknown	
52	1112033	100.0000	Unknown	
53	1112034	100.0000	Unknown	
54	1112035	100.0000	Unknown	
55	1112113	100.0000	Unknown	- rpt @ # 98 - 1/400
56	1112114	100.0000	Unknown	- includes 1/100 dil. @ digest
57	1112486-44650	1.0000	Unknown	
58	1112487	1.0000	Unknown	
59	1112488	1.0000	Unknown	
60	CCV	1.0000	Unknown	
61	CCB	1.0000	Unknown	
62	488 DUP	1.0000	Unknown	
63	488 SPK TV = 0.8	1.0000	Unknown	
64	1112489	1.0000	Unknown	
65	1112111S-44647	10.0000	Unknown	Soil: 0.26g → 25 mL
66	1112112S	10.0000	Unknown	0.25g → ↓
67	1112361S-44666	10.0000	Unknown	0.26g → ↓
68	1112362S	10.0000	Unknown	- dir spike - rpt @ # 99
69	362S DUP	10.0000	Unknown	Soil: 0.25g → 25 mL
70	362S SPK TV = 80	10.0000	Unknown	0.25g → ↓
71	1112363S	10.0000	Unknown	0.25g → ↓
72	CCV	1.0000	Unknown	
73	CCB	1.0000	Unknown	
74	1112364S	10.0000	Unknown	Soil: 0.26g → 25 mL
75	1112365S	10.0000	Unknown	- rpt @ # 100 - str.
76	1113245S	10.0000	Unknown	Soil: 0.29g → 25 mL
77	1113249S	10.0000	Unknown	0.30g → ↓

Cup #	Sample ID	Manual Dilution	Sample Type	
78	1113250S	10.0000	Unknown soil	0.25g → 25mL
79	250S DUP	10.0000	Unknown	0.25g →
80	250S SPK TV = 76.9	10.0000	Unknown	0.26g →
81	1113254S	10.0000	Unknown	0.25g →
82	1113255S	10.0000	Unknown	0.27g →
83	1113256S	10.0000	Unknown	0.27g →
84	CCV	1.0000	Unknown	
85	CCB	1.0000	Unknown	
86	1113257S	10.0000	Unknown soil	0.25g → 25mL
87	1113258S	10.0000	Unknown	0.27g →
88	1113259S	10.0000	Unknown	0.25g →
89	1113262S	10.0000	Unknown	0.26g →
90	PB-SOIL RPT	1.0000	Unknown	
91	CRDL - 0.05 RPT	1.0000	Unknown	
92	1093427 RPT 1/20	20.0000	Unknown	
93	1093430 RPT 1/2	2.0000	Unknown	
94	1111908 RPT 1/100	100.0000	Unknown	-rpt @ #101 - 1/200
95	1096090SPKRPT1/10TV = 4	10.0000	Unknown	-includes soil @ diges
96	CCV	1.0000	Unknown	
97	CCB	1.0000	Unknown	
98	1112113 RPT 1/400	400.0000	Unknown	-includes hood dil. @ diges
99	1112362S RPT 1/10	10.0000	Unknown	soil: 0.25g → 25mL
100	1112365S RPT STR	1.0000	Unknown	soil: 0.28g → 25mL
101	1111908 RPT 1/200	200.0000	Unknown	-includes 1/5 dil @ diges
102	CCV	1.0000	Unknown	
103	CCB	1.0000	Unknown	

Columbia Analytical Services
 1 Mustard Street
 Rochester, NY 14609

Analyte: TPO4 Digest
 Analyst: B. Bowl
 Pipet ID: E-2

Low Level Regular Level
 Date: 6/30/08
 Spk Witness: Org

#	Submission #	Order #	Sample Amt (mLs/g)	Dilution	Spk Amount	Comments
1		PB-S	0.25 → 25			
2		L85-S mg	0.25 → 25		0.200	100 ppm
3		L85-S mg	0.25 → 25		0.200	100 ppm
4	4464760	R-1112111	0.26 → 25			
5	(10)	J 112	0.25 → 25			
6	44666	R-1112361	0.26 → 25			
7		362	0.25			
8		-Dup	0.25			
9		-Spk	0.25		0.200	100 ppm
10		363	0.25			
11		364	0.26			
12		265	0.28			
13		R-1113245	0.29			
14		249	0.30			
15		250	0.25			
16		-Dup	0.25			
17		-Spk	0.26		0.200	100 ppm
18		254	0.25			
19		255	0.27			
20		256	0.27			
21		257	0.25			
22		258	0.27			
23		259	0.25			
24		262	0.26			
25						
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49						
50						

BB
 6/30/08

Columbia Analytical Services
 1 Mustard Street
 Rochester, NY 14609

Analyte: TPO4 Digest Low Level / Regular Level
 Analyst: B. Bewe Date: 6/27/08
 Pipet ID: E-2, ATI Spk Witness: TC
BB 6/27/08

#	Submission #	Order #	Sample Amt (mLs/g)	Dilution	Spk Amount	Comments
1		PB3	2.5	Str		
2		LAS3 inorg			0.200	100 ppm
3		LAS3 org			0.200	100 ppm
4	43432	R-1093427				
5		6 430				
6	44538	R-1111763				
7		-Dup				
8		-Spk			0.200	100 ppm
9		764				
10		765				
11	44641	R-1111908	5 mL → 2.5	5		*Phosphate buffered saline; low volume
12	44645	R-1111971	2.5	Str		
13	44650	R-1112065				
14		066				
15		067				
16	43626	R-1096090	5 mLs → 2.5	5		
17		-Dup		5		
18		-Spk		5	0.200	100 ppm
19	44647	R-1112012	0.25 mL → 2.5	100		
20		013	2.5			
21		014				
22		015				
23		016				
24		017				
25		018				
26		019				
27		028				
28		-Dup				
29		-Spk			0.200	100 ppm
30		PB4				
31		LAS4 inorg			0.200	100 ppm
32		LAS4 org			0.200	100 ppm
33		R-1112029				
34		030				
35		031				
36		032				
37		033				
38		034				
39		035				
40		113				
41		114				
42	44650	R-1112486		Str		
43		487				
44		488				
45		-Dup				
46		-Spk				
47		489				
48						
49						
50						

*PB3
 6/27/08*

OPERATOR:
 ACQ. TIME:
 DATA FILENAME:
 TRAY FILENAME:

NMEAD
 Jul 2, 2008 9:05:30
 C:\OMNION\DATA\080702A1.FDT
 C:\OMNION\TRAYS\0807020A.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
1	ICV TV= 1.5	02 Jul 2008	09:05:33	1	1.4952	1.0	1.00
2	ICB	02 Jul 2008	09:06:17	1	0.0099	1.0	1.00
3	PB-3 (6/27)	02 Jul 2008	09:07:00	1	0.0099	1.0	1.00
4	LCS-3 INORG (6/27) TV=0.8	02 Jul 2008	09:07:44	1	0.8029	1.0	1.00
5	LCS-3 ORG (6/27) TV= 0.8	02 Jul 2008	09:08:27	1	0.8416	1.0	1.00
6	PB-4 (6/27)	02 Jul 2008	09:09:10	1	0.0099	1.0	1.00
7	LCS-4 INORG (6/27)	02 Jul 2008	09:09:52	1	0.8064	1.0	1.00
8	LCS-4 ORG (6/27)	02 Jul 2008	09:10:35	1	0.8322	1.0	1.00
9	PB-S (6/30)	02 Jul 2008	09:11:18	1	0.0110	1.0	1.00 -Bad integration - rpt@#90
10	PB-S INORG (6/30) TV=80	02 Jul 2008	09:12:00	1	0.7887	1.0	1.00 = 78.87
11	PB-S ORG (6/30) TV= 80	02 Jul 2008	09:12:43	1	0.8235	1.0	1.00 = 82.35
12	CCV	02 Jul 2008	09:13:25	1	1.4802	1.0	1.00
13	CCB	02 Jul 2008	09:14:07	1	0.0099	1.0	1.00
14	CRDL - 0.10	02 Jul 2008	09:14:48	1	0.0981	1.0	1.00
15	CRDL - 0.05	02 Jul 2008	09:15:30	1	0.0126	1.0	1.00 -Bad integration - rpt@#91
16	1093427-43432	02 Jul 2008	09:16:13	1	17.6274	1.0	1.00 - rpt @#92 - 1/20
17	1093430	02 Jul 2008	09:16:57	1	3.1605	1.0	1.00 - rpt @#93 - 1/2
18	1111763-44538	02 Jul 2008	09:17:41	1	0.0351	1.0	1.00
19	763 DUP	02 Jul 2008	09:18:24	1	0.0271	1.0	1.00
20	763 SPK TV= 0.8	02 Jul 2008	09:19:07	1	0.8227	1.0	1.00
21	1111764	02 Jul 2008	09:19:51	1	0.0331	1.0	1.00
22	1111765	02 Jul 2008	09:20:35	1	0.1104	1.0	1.00
23	1111908-44641	02 Jul 2008	09:21:17	1	108.8082	5.0	1.00 - rpt @#94 - 1/100
24	CCV	02 Jul 2008	09:22:00	1	1.4998	1.0	1.00
25	CCB	02 Jul 2008	09:22:42	1	0.0214	1.0	1.00

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 2, 2008 9:05:30
C:\OMNION\DATA\080702A1.FDT
C:\OMNION\TRAYS\0807020A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
26	1111971-44645	02 Jul 2008	09:23:25	1	0.6908	1.0	1.00
27	1112065-44650	02 Jul 2008	09:24:07	1	0.0301	1.0	1.00
28	1112066	02 Jul 2008	09:24:49	1	0.0346	1.0	1.00
29	1112067	02 Jul 2008	09:25:31	1	0.0145	1.0	1.00
30	1096090-43626	02 Jul 2008	09:26:12	1	6.1366	5.0	1.00
31	090 DUP	02 Jul 2008	09:26:56	1	6.1236	5.0	1.00
32	090 SPK TV= 4.0	02 Jul 2008	09:27:39	1	10.1248	5.0	1.00
33	1112012-44647	02 Jul 2008	09:28:23	1	45.9152	100.0	1.00
34	1112013	02 Jul 2008	09:29:07	1	29.9570	100.0	1.00
35	1112014	02 Jul 2008	09:29:50	1	40.0409	100.0	1.00
36	CCV	02 Jul 2008	09:30:34	1	1.4987	1.0	1.00
37	CCB	02 Jul 2008	09:31:17	1	0.0099	1.0	1.00
38	1112015	02 Jul 2008	09:32:00	1	55.5840	100.0	1.00
39	1112016	02 Jul 2008	09:32:43	1	105.3262	100.0	1.00
40	1112017	02 Jul 2008	09:33:25	1	176.7214	100.0	1.00
41	1112018	02 Jul 2008	09:34:08	1	126.1802	100.0	1.00
42	1112019	02 Jul 2008	09:34:50	1	113.1020	100.0	1.00
43	1112028	02 Jul 2008	09:35:33	1	30.9283	100.0	1.00
44	028 DUP	02 Jul 2008	09:36:15	1	29.5252	100.0	1.00
45	028 SPK TV= 80.0	02 Jul 2008	09:36:58	1	112.7857	100.0	1.00
46	1112029	02 Jul 2008	09:37:42	1	28.8851	100.0	1.00
47	1112030	02 Jul 2008	09:38:25	1	32.0455	100.0	1.00
48	CCV	02 Jul 2008	09:39:09	1	1.4998	1.0	1.00
49	CCB	02 Jul 2008	09:39:52	1	0.0099	1.0	1.00
50	1112031	02 Jul 2008	09:40:36	1	44.7680	100.0	1.00

include 1/5 dil. @ digest

- rpt @ # 95 - 1/10

include 1/100 dil. @ digest

include 1/100 dil. @ digest

- includes 1/100 dil. @ digest

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 2, 2008 9:05:30
C:\OMNION\DATA\080702A1.FDT
C:\OMNION\TRAYS\0807020A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
51	1112032	02 Jul 2008	09:41:19	1	60.4743	100.0	1.00
52	1112033	02 Jul 2008	09:42:03	1	108.2161	100.0	1.00
53	1112034	02 Jul 2008	09:42:47	1	67.8994	100.0	1.00
54	1112035	02 Jul 2008	09:43:29	1	63.8138	100.0	1.00
55	1112113	02 Jul 2008	09:44:12	1	309.2567	100.0	1.00
56	1112114	02 Jul 2008	09:44:54	1	127.4476	100.0	1.00
57	1112486-44650	02 Jul 2008	09:45:37	1	0.7494	1.0	1.00
58	1112487	02 Jul 2008	09:46:19	1	0.0857	1.0	1.00
59	1112488	02 Jul 2008	09:47:02	1	0.0246	1.0	1.00
60	CCV	02 Jul 2008	09:47:44	1	1.5043	1.0	1.00
61	CCB	02 Jul 2008	09:48:29	1	0.0099	1.0	1.00
62	488 DUP	02 Jul 2008	09:49:14	1	0.0227	1.0	1.00
63	488 SPK TV= 0.8	02 Jul 2008	09:49:57	1	0.8333	1.0	1.00
64	1112489	02 Jul 2008	09:50:41	1	0.2860	1.0	1.00
501L 26g → 25g → 26g → 65	1112111S-44647	02 Jul 2008	09:51:25	1	6.6851	10.0	1.00 = 642.80
66	1112112S	02 Jul 2008	09:52:08	1	5.5433	10.0	1.00 = 554.33
25g → 26g → 67	1112361S-44666	02 Jul 2008	09:52:52	1	8.1699	10.0	1.00 = 785.57
68	1112362S	02 Jul 2008	09:53:35	1	7.4554	10.0	1.00 - air spike - rpt @ #99
25g → 25g → 69	362S DUP	02 Jul 2008	09:54:19	1	7.7975	10.0	1.00 = 779.75
70	362S SPK TV= 80	02 Jul 2008	09:55:01	1	8.2746	10.0	1.00 = 827.46
15g → 71	1112363S	02 Jul 2008	09:55:44	1	4.9991	10.0	1.00 = 499.91
72	CCV	02 Jul 2008	09:56:27	1	1.5093	1.0	1.00
73	CCB	02 Jul 2008	09:57:09	1	0.0099	1.0	1.00
26g → 74	1112364S	02 Jul 2008	09:57:52	1	4.9332	10.0	1.00 = 474.35
75	1112365S	02 Jul 2008	09:58:34	1	1.1867	10.0	1.00 - rpt @ #100 - str.

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 2, 2008 9:05:30
C:\OMNION\DATA\080702A1.FDT
C:\OMNION\TRAYS\0807020A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 76 to 100

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
2011 29g → 76	1113245S	02 Jul 2008	09:59:19	1	8.9337	10.0	1.00	= 770.15
30g → 77	1113249S	02 Jul 2008	10:00:04	1	10.8004	10.0	1.00	= 900.03
25g → 78	1113250S	02 Jul 2008	10:00:48	1	7.9562	10.0	1.00	= 795.62
15g → 79	250S DUP	02 Jul 2008	10:01:32	1	7.4948	10.0	1.00	= 749.48
16g → 80	250S SPK TV= 76.9	02 Jul 2008	10:02:15	1	8.6358	10.0	1.00	= 830.37
25g → 81	1113254S	02 Jul 2008	10:02:59	1	3.7349	10.0	1.00	= 373.49
17g → 82	1113255S	02 Jul 2008	10:03:42	1	5.4423	10.0	1.00	= 503.92
27g → 83	1113256S	02 Jul 2008	10:04:26	1	9.9471	10.0	1.00	= 921.03
84	CCV	02 Jul 2008	10:05:10	1	1.5221	1.0	1.00	
85	CCB	02 Jul 2008	10:05:53	1	0.0099	1.0	1.00	
25g → 86	1113257S	02 Jul 2008	10:06:36	1	7.8494	10.0	1.00	= 784.94
17g → 87	1113258S	02 Jul 2008	10:07:18	1	4.9685	10.0	1.00	= 460.05
5g → 88	1113259S	02 Jul 2008	10:08:01	1	5.0865	10.0	1.00	= 508.65
20g → 89	1113262S	02 Jul 2008	10:08:43	1	8.0977	10.0	1.00	= 778.63
90	PB-SOIL RPT	02 Jul 2008	10:09:26	1	0.0277	1.0	1.00	
91	CRDL - 0.05 RPT	02 Jul 2008	10:10:11	1	0.0586	1.0	1.00	-okay
92	1093427 RPT 1/20	02 Jul 2008	10:10:55	1	38.6127	20.0	1.00	
93	1093430 RPT 1/2	02 Jul 2008	10:11:40	1	3.2457	2.0	1.00	
94	1111908 RPT 1/100	02 Jul 2008	10:12:24	1	302.4572	100.0	1.00	- rpt @ #101 - 1/200
95	1096090SPKRPT1/10TV=4	02 Jul 2008	10:13:09	1	10.2852	10.0	1.00	- includes 1/5 dil @ digest
96	CCV	02 Jul 2008	10:13:53	1	1.5101	1.0	1.00	
97	CCB	02 Jul 2008	10:14:43	1	0.0099	1.0	1.00	
3011 25g → 98	1112113 RPT 1/400	02 Jul 2008	10:15:26	1	302.9546	400.0	1.00	- includes 1/100 dil @ digest
25g → 99	1112362S RPT 1/10	02 Jul 2008	10:16:10	1	7.4308	10.0	1.00	nm 7/2/08 743.08 = 743.08
28g → 100	1112365S RPT STR	02 Jul 2008	10:16:53	1	1.1498	1.0	1.00	= 102.66

OPERATOR: NMEAD
 ACQ. TIME: Jul 2, 2008 9:05:30
 DATA FILENAME: C:\OMNION\DATA\080702A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807020A.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 101 to 125

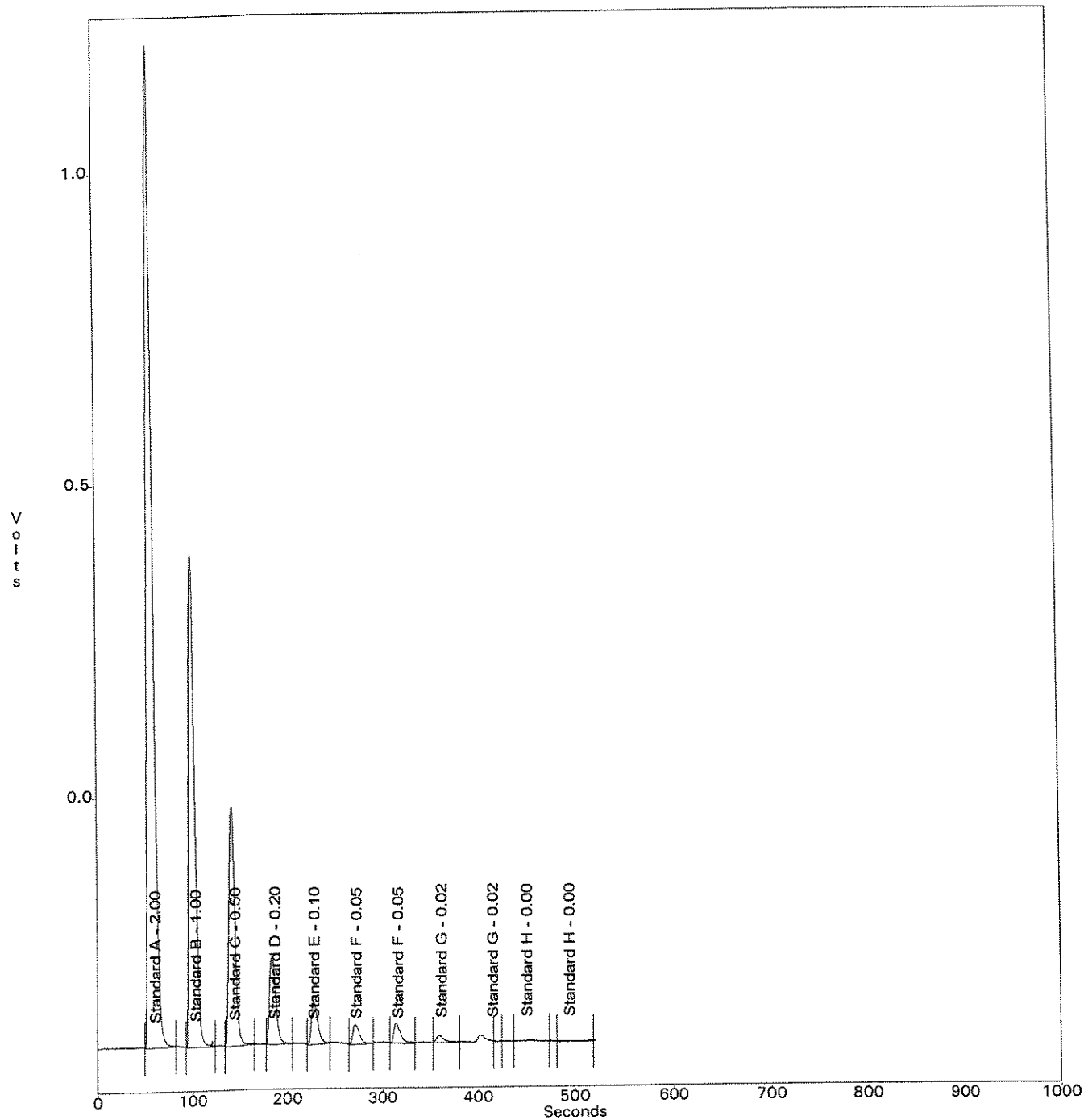
Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
101	1111908 RPT 1/200	02 Jul 2008	10:17:37	1	304.0251	200.0	1.00
102	CCV	02 Jul 2008	10:18:21	1	1.5093	1.0	1.00
103	CCB	02 Jul 2008	10:19:04	1	0.0099	1.0	1.00

includes 1/5 dil. @ digest

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 2, 2008 8:44:56
C:\OMNION\DATA\0807020A.FDT
C:\OMNION\TRAYS\0807020A.TRA

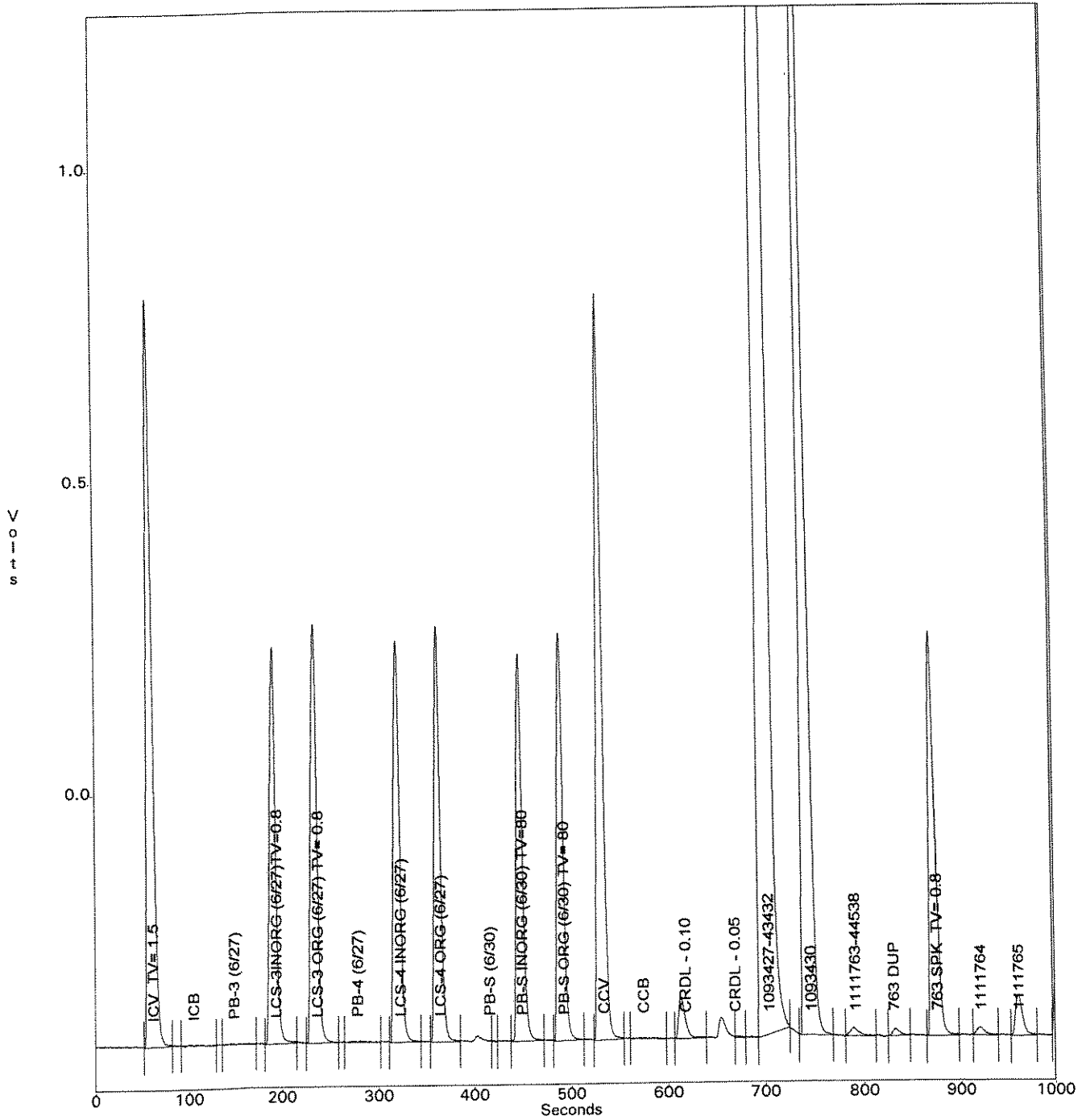
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 2, 2008 9:05:30
C:\OMNION\DATA\080702A1.FDT
C:\OMNION\TRAYS\0807020A.TRA

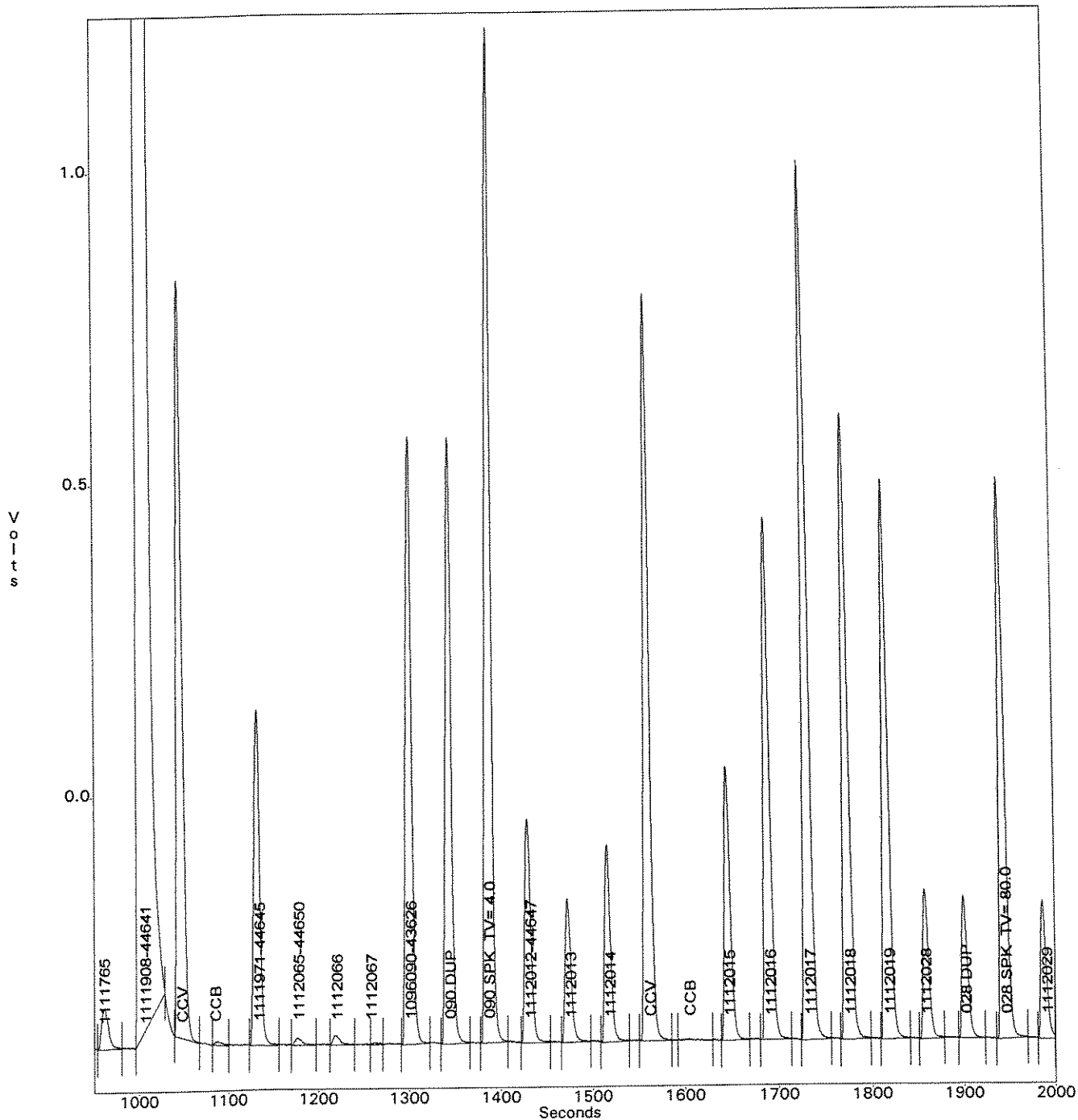
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

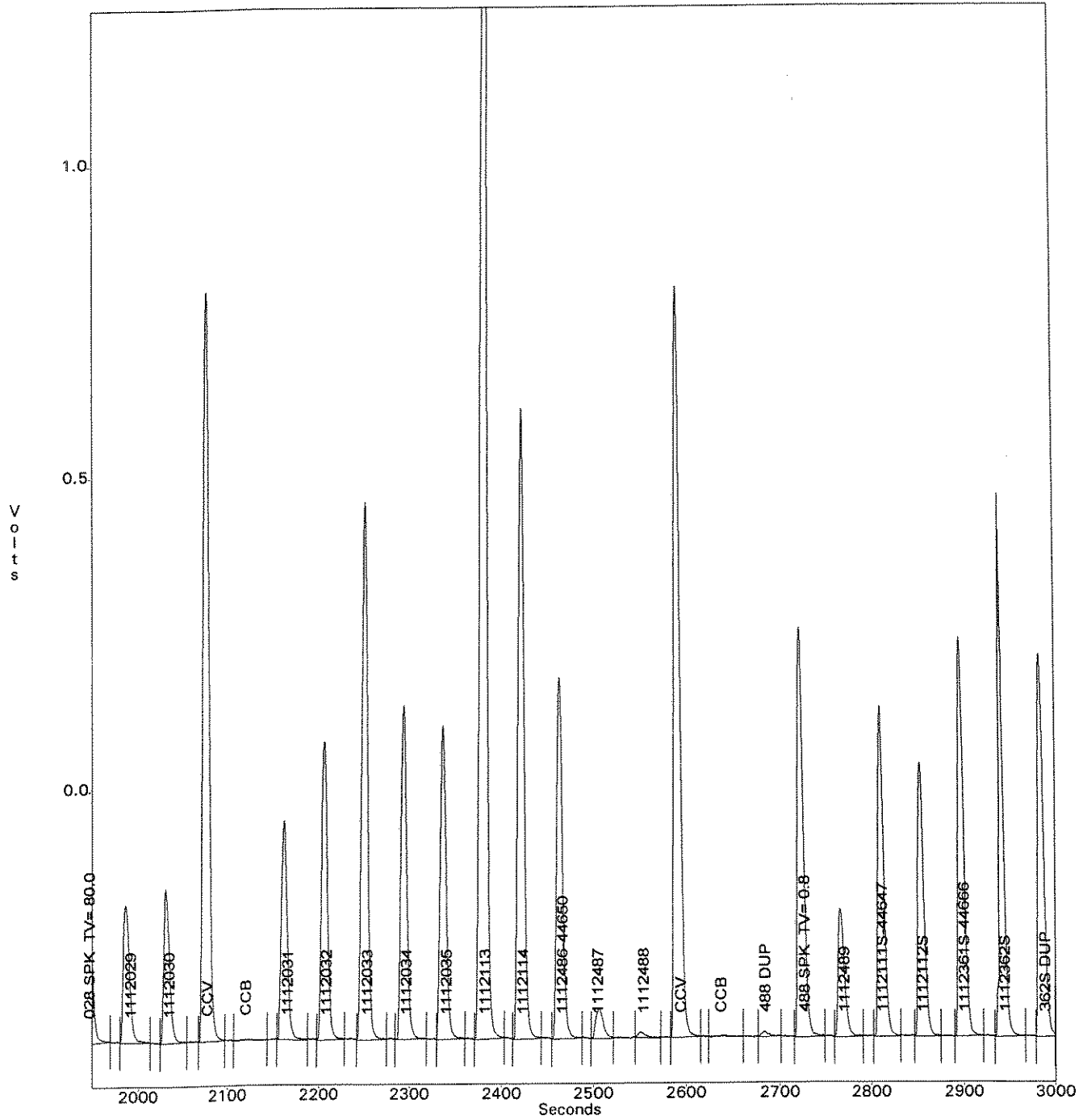
NMEAD
Jul 2, 2008 9:05:30
C:\OMNION\DATA\080702A1.FDT
C:\OMNION\TRAYS\0807020A.TRA

Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR: NMEAD
ACQ. TIME: Jul 2, 2008 9:05:30
DATA FILENAME: C:\OMNION\DATA\080702A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807020A.TRA

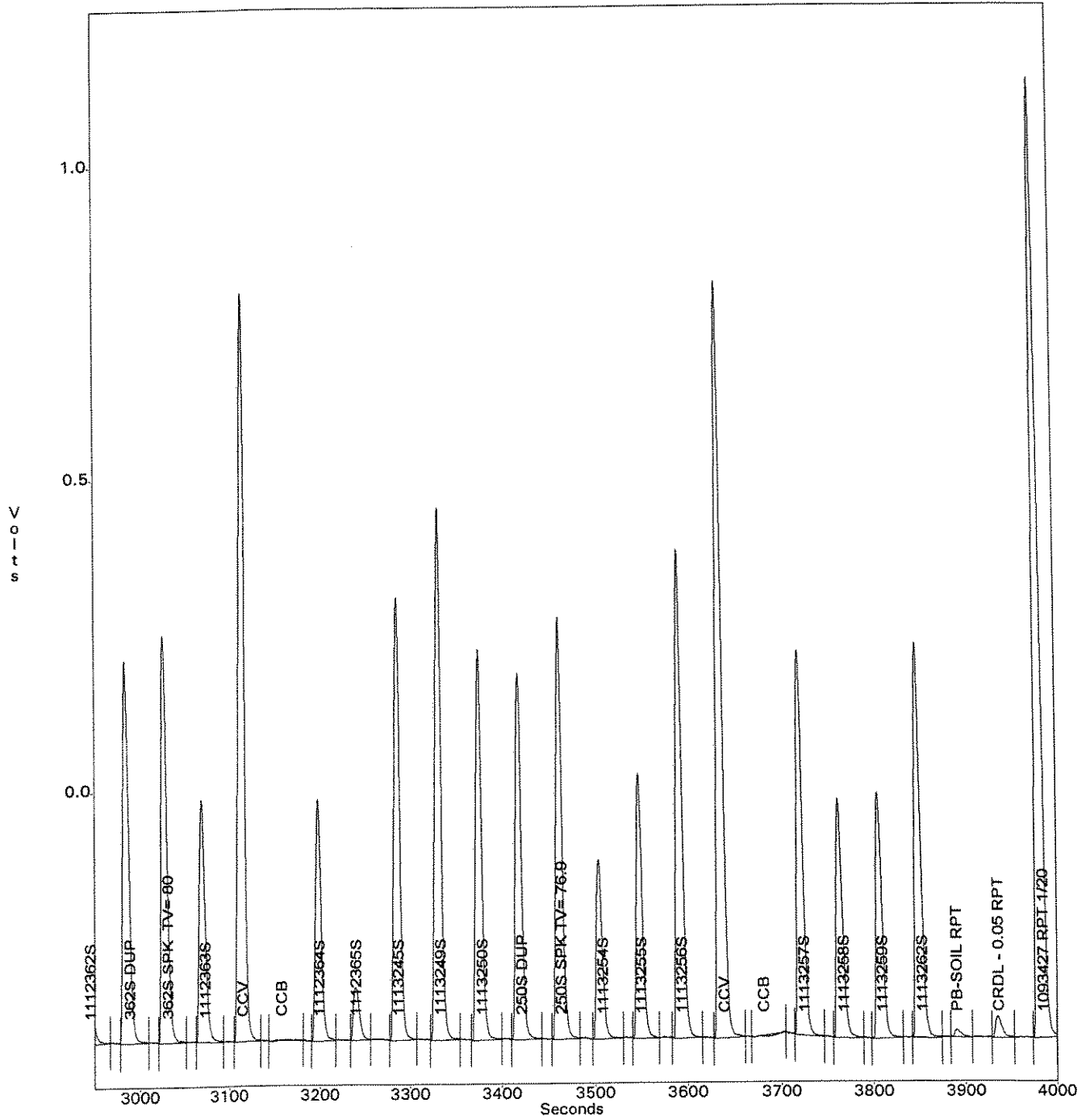
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 2, 2008 9:05:30
C:\OMNION\DATA\080702A1.FDT
C:\OMNION\TRAYS\0807020A.TRA

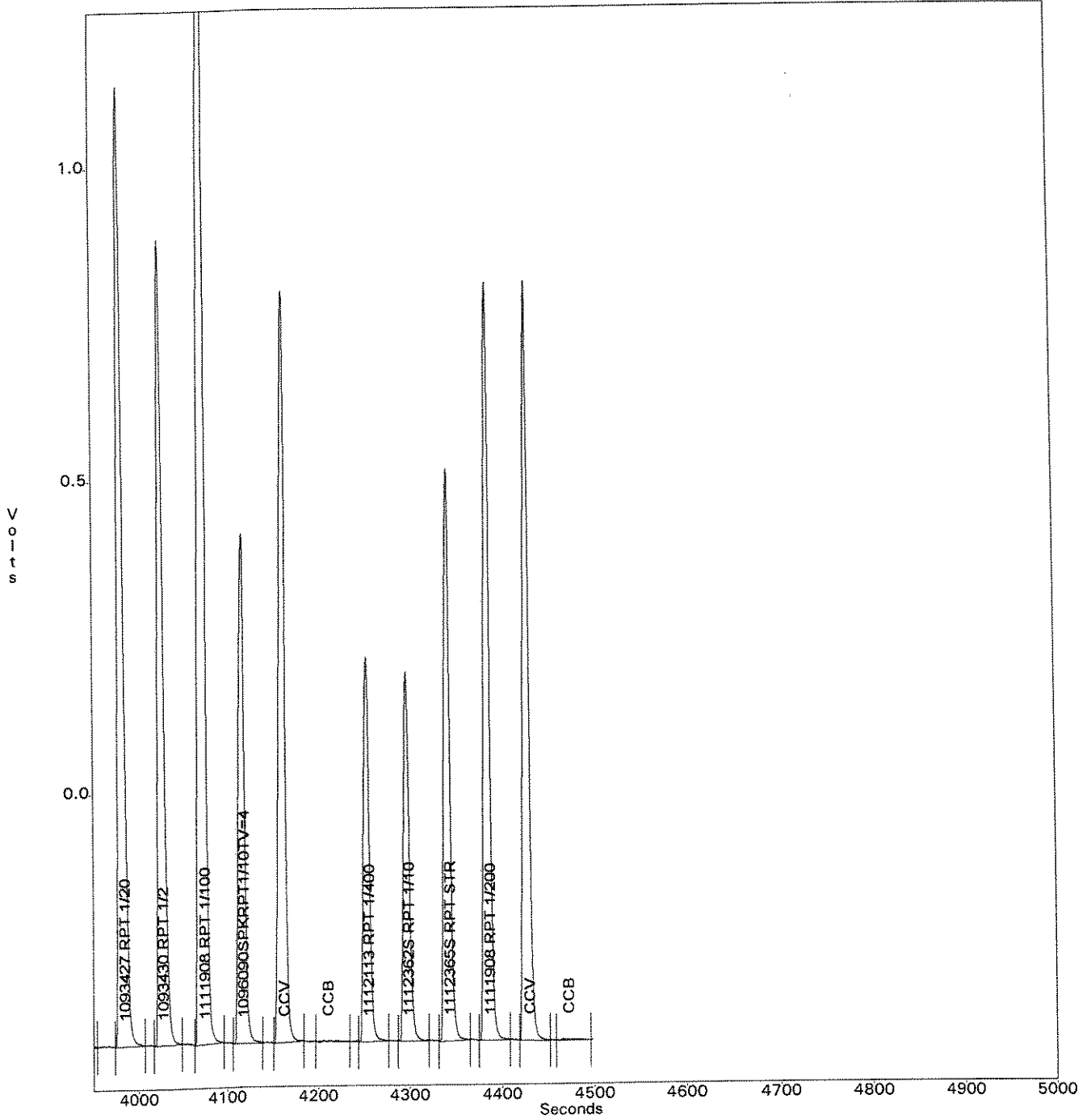
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 2, 2008 9:05:30
C:\OMNION\DATA\080702A1.FDT
C:\OMNION\TRAYS\0807020A.TRA

Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR: NMEAD
ACQ. TIME: Jul 2, 2008 8:44:56
DATA FILENAME: C:\OMNION\DATA\0807020A.FDT
METHOD FILENAME: C:\OMNION\METHODS\TPO4B.MET
TRAY FILENAME: C:\OMNION\TRAYS\0807020A.TRA

TRAY DESCRIPTION:
Created: Jul 1, 2008 14:36:21
Modified: Jul 1, 2008 14:36:21
QC 8000 365.1 TPO4 - RUN LOG - TPO4B 0807020A
DATA DESCRIPTION:
Created: Jul 2, 2008 8:44:56
Modified: Jul 2, 2008 8:44:56

Method - Ch. 1 (QC 8000 365.1 Total Phosphorus)

METHOD DESCRIPTION:
Created: Feb 25, 2008 14:38:43
Modified: Jun 25, 2008 10:23:35
Total Phosphorus - 2.00 -- 0.05

ANALYTE DATA:
Analyte Name: QC 8000 365.1 Total Phosphorus
Concentration Units: mg/L
Chemistry: Direct
Inject to Peak Start (s): 13.0
Peak Base Width (s): 16.961
% Width Tolerance: 60.000
Threshold: 6416.000
Autodilution Trigger: Off
QuikChem Method: 10-115-01-1-E

CALIBRATION DATA:
Levels:
1 : 2.000 2 : 1.000 3 : 0.500 4 : 0.200
5 : 0.100 6 : 0.050 7 : 0.020 8 : 0.000

Calibration Rep Handling: Average
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: None
Concentration Scaling: None

QC 8000.365.1 Total Phosphorus

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	11776158	2.00	11776158					0.0	0.0	-0.4
2	5785947	1.00	5785947					0.0	0.0	0.9
3	2823017	0.50	2823017					0.0	0.0	2.2
4	1054943	0.20	1054943					0.0	0.0	5.6
5	520116	0.10	520116					0.0	0.0	1.9
6	263197	0.05	268574	257820				7604.2	2.9	-9.0
7	122307	0.02	8987	122307				0.0	0.0	-53.1
8	0	0.00	0	0				0.0	0.0	

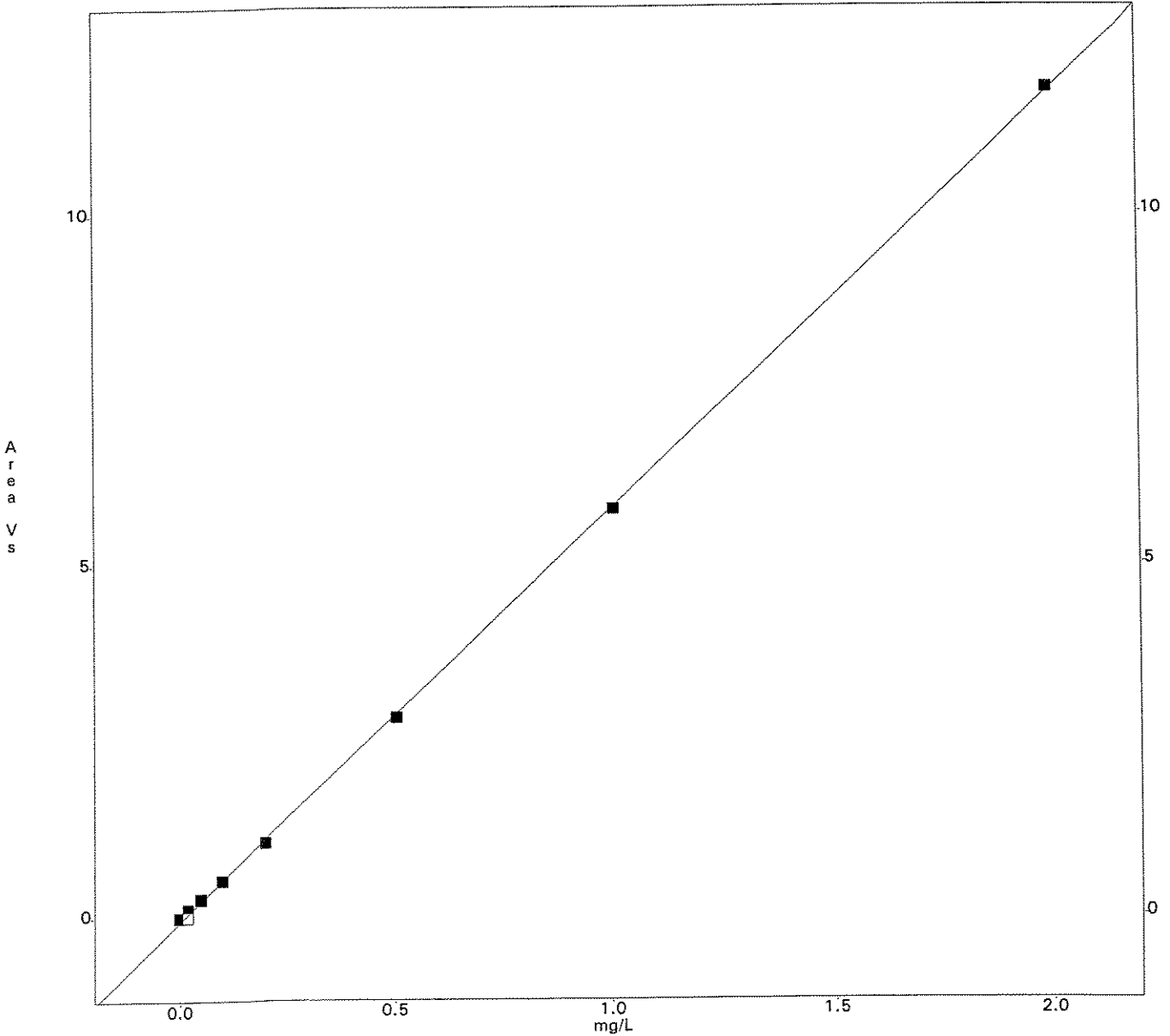
deleted - Bad integration
NM 7/2/08

Underlined Italic numbers and hollow graph points reflect the unused Replicate Points

1st Order Poly
 Conc = $1.697e-007$ Area + $9.871e-003$
 r = 0.9999

Pipette ID: E-1

Scaling: None - Weighting: None



Columbia Analytical Services
1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: N. Mead

Date: 7/2/08

Analysis: Total Phosphorus, 0.05 - 5.0 mg/L

Instrument: Lachat

Quality Control:

	Same as Log#, Date,	Stocks Prep. Log#, Date,	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:	WC85114C, 02/25/08	WC72001T, 2/14/08				
b) I/CCV Preparation:	WC85114E, 02/25/08	WC85071F, 11/12/07	1.5	10	10	1.50
c) Inorganic LCS Prep:	WC85114F, 2/25/08	WC72001T, 2/14/08	0.2	100	25	0.80
d) Organic LCS Prep:	WC85114F, 2/25/08	WC85051H, 10/10/07	0.2	100	25	0.80
e) Matrix Spike Prep.:	WC85114F, 2/25/08	WC72001T, 2/14/08	0.2	100	25	0.80

Instrument log filled in? (Y) (N)

Packages:

Copy and attach Standards Preparation.

Comments:

2/26/08 (A) 0.0250N $\text{Na}_2\text{S}_2\text{O}_3$ - Sulfides

RP Dilute 50mls 0.1N $\text{Na}_2\text{S}_2\text{O}_3$ (WC85067D) to 200mls volumetrically w/ DI. Store for 2 weeks at 4°C. Exp. 3/11/08

2/25/08 ^{TC 2/26/08} (B) TP04 Reg. Level Calibration for WC8000

TC (B) make a 10^{10} ppm Standard Working Stock by preparing two serial dilutions of the 1000 ppm TP04 Standard Stock (WC720001T)

(C) Cal. Standards - fresh per run

Std	Std Conc. (mg/L)	mls of 10ppm working Stock (WC750014D)	mls of Carrier/Diluent ^{TC 2/26/08}
A	2.00	2.0	8.0
B	1.00	1.0	9.0
C	0.50 0.50	0.50	9.5
D	0.20	1/5 dilution of Std A	
E	0.10	1/5 dilution of Std B	
F	0.050	1/5 dilution of Std C	
G	0.020	1/5 dilution of Std D.	
H	0.000	use Carrier/Diluent only	

(D) ICV/ICV TV=1.50
Add ^{TC 2/25/08}

(D) make a 10ppm Reference Working Stock by preparing two serial dilutions of the 1000ppm TP04 Reference Stock (WC85071F)

(E) ICV/CCV TV=1.50

Add 1.50 mls of the 10ppm Reference Working Stock (WC850114D) to 8.5mls Carrier/Diluent. Fresh per run.

(F) TP04-RL LCS/MS TV=0.80 ppm
^{Inorganic/Organic}

To 25mls sample of LIPDI add 0.20 mls of 100ppm Standard Stock (prepared by making a 1/5 dilution of the 1000ppm Standard Stock) ^(WC72001T)
Organic LCS is prepared from 100ppm Organic Standard (WC85051H)

ted volumetrically
bottle. @ 4°C

10/9/07
NM

(A) NH₃ Carrier/Diluent

- same as WC85035A. Prepared solution x 3.

(B) Hypochlorite - NH₃

- To a tared 1-L amber jar add

- 350 mLs Sodium Hypochlorite (WC85047B)

- 350 mLs UPDI

Prepare fresh each run.

1/2 add
cell.

10/10/07 (C) TKN Digest Reagent

TC To a 2 liter vol. flask add:

- 268.0 g K₂SO₄ (WC85037A)

- 14.6 g Copper II Sulfate (WC85040A)

to ~900 mL UPDI

Slowly add 268 mL conc. in situ analyzed H₂SO₄
(WC85024E)

Stir until dissolved. Allow to cool. Exp. 1 month 11/10

10/10/07
NM

(D) Buffer - NH₃

- same as WC85021D. Exp 1 year, 10/9/08.

ng
B (WC85050E).

10/10/07
GN

(E) NO₂ Color Reagent - Kowalek

- same as WC85032A. Exp 1 month 11/10/07

to, Cat# ZX0048-1,
15-6. Stewart.

10/10/07
NM

(F) Post-Digestion Matrix Match - TKAL

To a 2-L vol. flask add 800 mL TKN Digest Reagent
(WC85051C) and bring to volume w/UPDI. Mix
thoroughly. Pour off 100 mL and discard. Bring back to
volume w/UPDI. Mix thoroughly. Store @ RT in
amber glass. Exp. 11/9/07.

100, Cat# 2533-35,
WC85017G.

(G) Hypochlorite - TKN

- same as ~~WC85047B~~ WC85049G. Prepare fresh each run.

n.
CAS# 128-95-2.

10/10/07
TC

(H) 100ppm Organic Phosphorous Standard - TPO4

in a 1 liter vol. flask dissolve 0.9885g
β-Glycero-phosphoric acid, Disodium Salt, 5-Hydrate
(WC76143D) in DI. Bring to vol. w/ DI. Store in
amber glass @ 4°C. Exp. 1 yr. 10/10/08.

D brought
- fresh

id
2/07

or (HYPO)

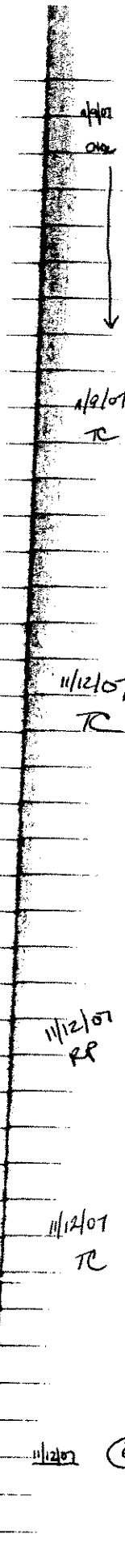
Br)

g dried @ 100°C for 1hr
11/10/08

the add:

adjust pH
exp 1yr. 11/9/08.

chemically
the @ 4°C.



Antititrator Solutions

(A) 0.100N KIO₃

In a 2L vol. flask, dissolve 42.8g KIO₃ (WC85067E) and bring to volume with DI. Store at RT. Exp 11/9/08

(B) 0.6M KI

In a 1 L vol. flask, dissolve 99.6g KI (WC85046H) and bring to volume with DI. Store at RT. Exp 11/9/08

(C) Sulfanilamide Color Reagent -TDN

To a tared 1 Liter amber bottle add:

- 76g DI
- 15g H₂O₂ (WC76294E)
- 0.90g ^{NEO} ~~FOXA~~ (WC74008H)
- 36g Sulfanilamide (WC76161G)

Stir until dissolved. Store at RT. exp. 1 month, 11/9/08.

11/12/07 (D) TKN Digest Reagent

In a 2 liter vol. flask dissolve:
- 268g K₂S₂O₈ (WC85066D)
- 14.6g CuSO₄ (WC85040A)
- 268 ml conc. orthotric H₂SO₄ (WC85067G)
in UPDI. Stir until dissolved. Cool and bring to vol. w/ UPDI. Exp. 1 month, 11/12/07.

(E) TSS Reference

0.2230 g Kaolin (WC69285 G) brought + to 1000g w/ DI. Stored at 4°C in a plastic bottle.

TV = 223 mg/L exp. 11/12/08

(F) TPO₄ 1000 ppm Reference Stock

4.394g KH₂PO₄ (WC75054G) previously dried for 2 hours @ 104°C. Dissolve in ~800 ml DI in a 1 liter vol. flask. Bring to vol. w/ DI. Store in amber glass @ 4°C. for 1yr. Exp 11/12/08.

(G) Iodate-Iodate Titrant for Sulfites

0.4458g KIO₃ (WC69234F) + 4.25g KI (WC76272E) + 0.310g NaHCO₃ (WC76115E) diluted to 1L in vol. flask with DI Store at 4°C. exp 11/12/08

STANDARD STOCK PREP

(Fluoride and Bromide are purchased 1000ppm standards)

By: CH / CR / CR
 Date: 5/9/05 / 7/19/06 / 10/16/06

Chloride 1000ppm Stock: 1.648g NaCl crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ room temp. for 1 year.

ID Letter	NaCl Source	Analyst	Date Prepared	Date Expires	Final Cl 1000ppm Stock ID
* A	WC69074D	BB	2/23/04	2/23/05	WC72001A
B	WC69074D	BB	2/23/05	2/23/06	WC72001B
C	WC69074D	TC	2/21/05	2/14/07	WC72001C
D	WC76105I	FN	2/5/07	2/5/08	WC72001D
E					

* Previously WC69084A

Nitrite 1000ppm Stock: 6.07g KNO2 previously dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KNO2 Source	Analyst	Date Prepared	Date Expires	Final NO2 1000ppm Stock ID
2* F	WC55288D	BB	2/27/04	2/27/05	WC72001F
G	WC69234I	BB	2/23/05	2/23/06	WC72001G
H	WC69234I	TC	2/22/06	2/22/07	WC72001H
I	WC69234I	FN	2/5/07	2/11/08	WC72001I
J	WC85099D	NIM	1/31/08	1/31/09	WC72001J

2* Previously WC69089A

Nitrate 1000ppm Stock: 7.22g KNO3 crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Transfer to amber jar and add 1.0ml Chloroform. Store in amber jar @ room temp. for 6 months.

ID Letter	KNO3 Source	Chloroform Source ID	Analyst	Date Prepared	Date Expires	Final NO3 1000ppm Stock ID
3* K	WC65173E	WC69078E	BB	8/10/04	2/10/05	WC72001K
L	WC65017E	WC69108E	BB	2/8/05	8/8/05	WC72001L
M	WC65017E	WC69174F	JPM	7/25/05	1/25/06	WC72001M
N	WC65017E	WC69245F	FN	1/23/06	7/23/06	WC72001N
O	WC65017E	WC69245F	FN	4/12/06	10/12/06	WC72001O

3* Previously WC690163E

OPO4/TPO4 1000ppm Stock: 4.394g KH2PO4 dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KH2PO4 Source	Analyst	Date Prepared	Date Expires	Final OPO4/TPO4 1000ppm Stock ID
4* P	WC65017D	BB	2/24/04	2/24/05	WC72001P
Q	WC65017D	BB	2/23/05	2/23/06	WC72001Q
R	WC69196E	TC	2/21/06	2/21/07	WC72001R
S	WC69245I	TC	2/23/07	2/23/08	WC72001S
T	WC85085E	RP	2/14/08	2/14/09	WC72001T

4* Previously WC69085D

Sulfate 1000ppm Stock: 1.479g Na2SO4 dried overnight at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	Na2SO4 Source	Analyst	Date Prepared	Date Expires	Final SO4 1000ppm Stock ID
5* U	WC65168D	BB	2/24/04	2/24/05	WC72001U
V	WC65168D	BB	2/23/05	2/23/06	WC72001V
W	WC66018A	TC	2/22/06	2/22/07	WC72001W
X	WC76015A	FN	2/5/07	2/5/08	WC72001X
Y	WC76153E	NIM	1/31/08	1/31/09	WC72001Y

5* Previously WC69085A

UU: 1

Run #: 163406

Analyte: TP 365.1 PHOSPHORUS, TOTAL

Printed: 07/09/08 14:02

R44650
R44768
R44797
R44803
4 copies

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1115803	WATER	1.49	1.0	0.0500	99.4		07/09/2008		
BLK1		1115804	WATER	0.0500	U	1.0	0.0500		07/09/2008		
BLK2		1115805	WATER	0.0500	U	1.0	0.0500		07/09/2008		
SPKB		1115806	WATER	0.784		1.0	0.0500	97.9	07/09/2008		
BLK2		1115807	WATER	0.0500	U	1.0	0.0500		07/09/2008		
SPKB		1115808	WATER	0.782		1.0	0.0500	97.8	07/09/2008		
ESMP	R2844650	1112809	WATER	0.0579		1.0	0.0500		07/09/2008		ASPB
ESMP	R2844650	1112810	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844650	1112811	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844650	1112812	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844650	1112871	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844650	1112872	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844650	1112874	WATER	0.0500	U	1.0	0.0500		07/09/2008	QC	ASPB
LDUP		1115811	WATER	0.0500	U	1.0	0.0500		07/09/2008		
SPK1		1115812	WATER	0.798		1.0	0.0500	99.7	07/09/2008		
ESMP	R2844650	1113426	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844650	1113427	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844650	1113428	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844650	1113429	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844650	1113430	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844768	1113695	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844768	1113696	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844768	1113697	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844768	1113698	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844768	1113699	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844207	1105469	WATER	1.52		5.0	0.0500		07/09/2008	QC	2
LDUP		1115813	WATER	1.52		5.0	0.0500	0.32	07/09/2008		
SPK1		1115814	WATER	5.45		5.0	0.0500	98.2	07/09/2008		
ESMP	R2844797	1114366	SOIL/SEDIME	127		1.0	5.00		07/09/2008		ASPB
BLK2		1115809	SOIL/SEDIME	5.00	U	1.0	5.00		07/09/2008		
SPKS		1115810	SOIL/SEDIME	78.1		1.0	5.00	97.7	07/09/2008		
ESMP	R2844797	1114376	SOIL/SEDIME	60.9		1.0	5.00		07/09/2008		ASPB
ESMP	R2844797	1114379	SOIL/SEDIME	863		10.0	5.00		07/09/2008		ASPB
ESMP	R2844797	1114380	SOIL/SEDIME	816		10.0	5.00		07/09/2008	QC	ASPB
LDUP		1115817	SOIL/SEDIME	741		10.0	5.00	9.65	07/09/2008		
SPK1		1115818	SOIL/SEDIME	747		10.0	5.00	-89.7	07/09/2008		
ESMP	R2844797	1114382	SOIL/SEDIME	536		10.0	5.00		07/09/2008		ASPB
ESMP	R2844803	1114419	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844803	1114420	WATER	0.0500	U	1.0	0.0500		07/09/2008		ASPB
ESMP	R2844803	1114421	WATER	0.0500	U	1.0	0.0500		07/09/2008	QC	ASPB
LDUP		1115815	WATER	0.0500	U	1.0	0.0500		07/09/2008		
SPK1		1115816	WATER	0.798		1.0	0.0500	99.7	07/09/2008		
ESMP	R2844804	1114423	WATER	0.234		1.0	0.0500		07/09/2008	RUN	2

Records printed: 43

Reviewed & Approved

By: CK

Date: 7/15/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

Columbia Analytical Services
 1 Mustard Street
 Rochester, NY 14609

Analyte: TPO4 Digest

Low Level Regular Level

Analyst: Mary Christ

Date: 7/13/08

Pipet ID: Robin

Spk Witness: GN

#	Submission #	Order #	Sample Amt (mLs/g)	Dilution	Spk Amount	Comments
1		PB 1 RL	25	20	1	
2		LCS INORG		20	1	0.2 100 PPM
3		LCS ORG		20	1	0.2 100 PPM
4	R-44650	1112809		20	1	
5		1112810		20	1	
6		1112811		20	1	
7		1112812		20	1	
8		1112871		20	1	
9		1112872		20	1	
10		1112874		20	1	
11		874 DUP		20	1	
12		874 SPK		20	1	0.2 100 PPM
13		1113426		20	1	
14		1113427		20	1	
15		1113428		20	1	
16		1113429		20	1	
17		1113430		20	1	
18		1113695		20	1	
19		1113696		20	1	
20		1113697		20	1	
21		1113698		20	1	
22		1113699		20	1	
23	R-44207	1105469	5	4	5	
24		469 DUP	5	4	5	
25		469 SPK	5	4	5	0.2 100 PPM
26	R-44803	1114419	25	20	1	
27		1114420		20	1	
28		PB 2 RL		20	1	
29		LCS INORG		20	1	0.2 100 PPM
30		LCS ORG		20	1	0.2 100 PPM
31		1114421		20	1	
32		421 DUP		20	1	
33		421 SPK		20	1	0.2 100 PPM
34	R-44804	1114423		20	1	
35		PB 3 SOIL	0.25 → 25			
36		LCS INORG	0.25 → 25			0.2 100 PPM
37		LCS ORG	0.25 → 25			0.2 100 PPM
38	R-44797	1114366	0.25 → 25			
39		1114376	0.25 → 25			
40		1114379	0.26 → 25			
41		1114380	0.26 → 25			
42		380 DUP	0.26 → 25			
43		380 SPK	0.26 → 25			0.2 100 PPM
44		1114382	0.26 → 25			
45						
46						
47						7/13/08
48						
49						
50						

Creator: NMEAD
 Creation Date: Jul 8, 2008 14:04:30
 Last Modified: Jul 9, 2008 9:17:49
 Description: OC 8000 365.1 TPO4 - RUN LOG - TPO4B 0807090A

Cup #	Sample ID	Manual Dilution	Sample Type	
1	Standard A - 2.00	1.0000	CalStd	
2	Standard B - 1.00	1.0000	CalStd	
3	Standard C - 0.50	1.0000	CalStd	
4	Standard D - 0.20	1.0000	CalStd	
5	Standard E - 0.10	1.0000	CalStd	
6	Standard F - 0.05	1.0000	CalStd	
7	Standard G - 0.02	1.0000	CalStd	
8	Standard H - 0.00	1.0000	CalStd	
1	ICV TV = 1.5	1.0000	Unknown	
2	ICB	1.0000	Unknown	
3	PB-1	1.0000	Unknown	
4	LCS-1 INORG. TV = 0.8	1.0000	Unknown	
5	LCS-1 ORG. TV = 0.8	1.0000	Unknown	
6	PB-2	1.0000	Unknown	
7	LCS-2 INORG.	1.0000	Unknown	
8	LCS-2 ORG.	1.0000	Unknown	
9	PB-SOIL	1.0000	Unknown	- Bad integration - rpt #5
10	LCS-SOIL INORG. TV = 80	1.0000	Unknown	soil: 0.25g → 25 mL
11	LCS-SOIL ORG. TV = 80	1.0000	Unknown	↓ ↓ ↓
12	CCV	1.0000	Unknown	
13	CCB	1.0000	Unknown	
14	CRDL - 0.10	1.0000	Unknown	
15	CRDL - 0.05	1.0000	Unknown	
16	1112809-44650	1.0000	Unknown	
17	1112810	1.0000	Unknown	
18	1112811	1.0000	Unknown	
19	1112812	1.0000	Unknown	
20	1112871	1.0000	Unknown	
21	1112872	1.0000	Unknown	
22	1112874	1.0000	Unknown	
23	874 DUP	1.0000	Unknown	
24	CCV	1.0000	Unknown	
25	CCB	1.0000	Unknown	
26	874 SPK TV = 0.80	1.0000	Unknown	
27	1113426	1.0000	Unknown	
28	1113427	1.0000	Unknown	
29	1113428	1.0000	Unknown	
30	1113429	1.0000	Unknown	
31	1113430	1.0000	Unknown	
32	1113695	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
33	1113696	1.0000	Unknown	
34	1113697	1.0000	Unknown	
35	1113698	1.0000	Unknown	
36	CCV	1.0000	Unknown	
37	CCB	1.0000	Unknown	tray ends here -
38	1113699	1.0000	Unknown	next CCB has
39	1105469-44207	5.0000	Unknown	air spikes
40	469 DUP	5.0000	Unknown	
41	469 SRK TV = 4.0	5.0000	Unknown	
42	1114419-44803	1.0000	Unknown	
43	1114420	1.0000	Unknown	
44	1114421	1.0000	Unknown	
45	421 DUP	1.0000	Unknown	
46	421 SPK TV = 0.8	1.0000	Unknown	
47	1114423-44804	1.0000	Unknown	
48	CCV	1.0000	Unknown	
49	CCB	1.0000	Unknown	- air spikes - rpt tray
50	1114366S-44797	10.0000	Unknown	from # 36
51	1114376S	10.0000	Unknown	
52	1114379S	10.0000	Unknown	
53	1114380S	10.0000	Unknown	
54	380S DUP	10.0000	Unknown	
55	380S SPK TV = 76.9	10.0000	Unknown	
56	1114382S	10.0000	Unknown	
57	PB-SOIL RPT	1.0000	Unknown	
58	CCV	1.0000	Unknown	
59	CCB	1.0000	Unknown	

Creator: NMEAD
 Creation Date: Jul 9, 2008 9:33:56
 Last Modified: Jul 9, 2008 9:51:01
 Description: QC 8000 365.1 TPO4 - RUN LOG - TPO4B 080709A2

Cup #	Sample ID	Manual Dilution	Sample Type	
36	CCV	1.0000	Unknown	
37	CCB	1.0000	Unknown	
38	1113699	1.0000	Unknown	
39	1105469-44207	5.0000	Unknown	
40	469 DUP	5.0000	Unknown	
41	469 SPK TV = 4.0	5.0000	Unknown	
42	1114419-44803	1.0000	Unknown	
43	1114420	1.0000	Unknown	
44	1114421	1.0000	Unknown	
45	421 DUP	1.0000	Unknown	
46	421 SPK TV = 0.8	1.0000	Unknown	
47	1114423-44804	1.0000	Unknown	
48	CCV	1.0000	Unknown	
49	CCB	1.0000	Unknown	
50	1114366S-44797	1.0000	Unknown	soil: 0.25g → 25mL
51	1114376S	1.0000	Unknown	- air spike - rpt @ # 58
52	1114379S	10.0000	Unknown	soil: 0.26g → 25mL
53	1114380S	10.0000	Unknown	0.26g →
54	380S DUP	10.0000	Unknown	0.26g →
55	380S SPK TV = 76.9	10.0000	Unknown	0.26g →
56	1114382S	10.0000	Unknown	0.26g →
57	PB-SOIL RPT	1.0000	Unknown	0.25g →
58	1114376S RPT	1.0000	Unknown	0.25g → ↓ - okay
59	CCV	1.0000	Unknown	
60	CCB	1.0000	Unknown	- air spike - L P & L

OPERATOR: NMEAD
 ACQ. TIME: Jul 9, 2008 8:55:50
 DATA FILENAME: C:\OMNION\DATA\080709A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807090A.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
1	ICV TV= 1.5	09 Jul 2008	08:55:53	1	1.4904	1.0	1.00
2	ICB	09 Jul 2008	08:56:36	1	0.0058	1.0	1.00
3	PB-1	09 Jul 2008	08:57:20	1	0.0058	1.0	1.00
4	LCS-1 INORG. TV= 0.8	09 Jul 2008	08:58:04	1	0.7835	1.0	1.00
5	LCS-1 ORG. TV= 0.8	09 Jul 2008	08:58:47	1	0.8305	1.0	1.00
6	PB-2	09 Jul 2008	08:59:30	1	0.0058	1.0	1.00
7	LCS-2 INORG.	09 Jul 2008	09:00:12	1	0.7820	1.0	1.00
8	LCS-2 ORG.	09 Jul 2008	09:00:55	1	0.8567	1.0	1.00
9	PB-SOIL	09 Jul 2008	09:01:37	1	0.0075	1.0	1.00
10	LCS-SOIL INORG. TV= 80	09 Jul 2008	09:02:20	1	0.7812	1.0	1.00
11	LCS-SOIL ORG. TV= 80	09 Jul 2008	09:03:02	1	0.8494	1.0	1.00
12	CCV	09 Jul 2008	09:03:45	1	1.5017	1.0	1.00
13	CCB	09 Jul 2008	09:04:26	1	0.0058	1.0	1.00
14	CRDL - 0.10	09 Jul 2008	09:05:08	1	0.1001	1.0	1.00
15	CRDL - 0.05	09 Jul 2008	09:05:49	1	0.0533	1.0	1.00
16	1112809-44650	09 Jul 2008	09:06:33	1	0.0579	1.0	1.00
17	1112810	09 Jul 2008	09:07:17	1	0.0269	1.0	1.00
18	1112811	09 Jul 2008	09:08:00	1	0.0331	1.0	1.00
19	1112812	09 Jul 2008	09:08:44	1	0.0131	1.0	1.00
20	1112871	09 Jul 2008	09:09:28	1	0.0207	1.0	1.00
21	1112872	09 Jul 2008	09:10:11	1	0.0209	1.0	1.00
22	1112874	09 Jul 2008	09:10:54	1	0.0284	1.0	1.00
23	874 DUP	09 Jul 2008	09:11:36	1	0.0267	1.0	1.00
24	CCV	09 Jul 2008	09:12:19	1	1.4757	1.0	1.00
25	CCB	09 Jul 2008	09:13:02	1	0.0058	1.0	1.00

-Bad integration rpt @ #57
 = 78.12
 = 84.94

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 9, 2008 8:55:50
C:\OMNION\DATA\080709A1.FDT
C:\OMNION\TRAYS\0807090A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
26	874 SPK TV= 0.80	09 Jul 2008	09:13:44	1	0.7977	1.0	1.00
27	1113426	09 Jul 2008	09:14:27	1	0.0221	1.0	1.00
28	1113427	09 Jul 2008	09:15:09	1	0.0203	1.0	1.00
29	1113428	09 Jul 2008	09:15:52	1	0.0202	1.0	1.00
30	1113429	09 Jul 2008	09:16:33	1	0.0251	1.0	1.00
31	1113430	09 Jul 2008	09:17:17	1	0.0236	1.0	1.00
32	1113695	09 Jul 2008	09:18:01	1	0.0200	1.0	1.00
33	1113696	09 Jul 2008	09:18:44	1	0.0431	1.0	1.00
34	1113697	09 Jul 2008	09:19:28	1	0.0151	1.0	1.00
35	1113698	09 Jul 2008	09:20:11	1	0.0142	1.0	1.00
36	CCV	09 Jul 2008	09:20:55	1	1.4862	1.0	1.00
37	CCB	09 Jul 2008	09:21:38	1	0.0058	1.0	1.00
38	1113699	09 Jul 2008	09:22:22	1	0.0155	1.0	1.00
39	1105469-44207	09 Jul 2008	09:23:04	1	1.5361	5.0	1.00
40	469 DUP	09 Jul 2008	09:23:47	1	1.5140	5.0	1.00
41	469 SPK TV= 4.0	09 Jul 2008	09:24:30	1	5.4911	5.0	1.00
42	1114419-44803	09 Jul 2008	09:25:12	1	0.0247	1.0	1.00
43	1114420	09 Jul 2008	09:25:55	1	0.0249	1.0	1.00
44	1114421	09 Jul 2008	09:26:37	1	0.0254	1.0	1.00
45	421 DUP	09 Jul 2008	09:27:20	1	0.0258	1.0	1.00
46	421 SPK TV= 0.8	09 Jul 2008	09:28:03	1	0.7984	1.0	1.00
47	1114423-44804	09 Jul 2008	09:28:47	1	0.2330	1.0	1.00
48	CCV	09 Jul 2008	09:29:31	1	1.4920	1.0	1.00
49	CCB	09 Jul 2008	09:30:14	1	0.0101	1.0	1.00
50	1114366S-44797	09 Jul 2008	09:30:58	1	1.2933	10.0	1.00

less than ppl - peak shape since peak shape

tray ends here -
next CCB has air

nm
7/9/08

- air spikes - re-run
tray from # 36

OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 8:55:50
DATA FILENAME: C:\OMNION\DATA\080709A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807090A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
51	1114376S	09 Jul 2008	09:31:41	1	0.6658	10.0	1.00

nm 7/9/08

OPERATOR:
 ACQ. TIME:
 DATA FILENAME:
 TRAY FILENAME:

NMEAD
 Jul 9, 2008 9:34:15
 C:\OMNION\DATA\080709A2.FDT
 C:\OMNION\TRAYS\080709A2.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
36	CCV	09 Jul 2008	09:34:18	1	1.5001	1.0	1.00
37	CCB	09 Jul 2008	09:35:01	1	0.0058	1.0	1.00
38	1113699	09 Jul 2008	09:35:44	1	0.0142	1.0	1.00
39	1105469-44207	09 Jul 2008	09:36:26	1	1.5250	5.0	1.00
40	469 DUP	09 Jul 2008	09:37:09	1	1.5152	5.0	1.00
41	469 SPK TV= 4.0	09 Jul 2008	09:37:51	1	5.4475	5.0	1.00
42	1114419-44803	09 Jul 2008	09:38:34	1	0.0237	1.0	1.00
43	1114420	09 Jul 2008	09:39:16	1	0.0245	1.0	1.00
44	1114421	09 Jul 2008	09:39:59	1	0.0255	1.0	1.00
45	421 DUP	09 Jul 2008	09:40:41	1	0.0256	1.0	1.00
46	421 SPK TV= 0.8	09 Jul 2008	09:41:25	1	0.7978	1.0	1.00
47	1114423-44804	09 Jul 2008	09:42:09	1	0.2340	1.0	1.00
48	CCV	09 Jul 2008	09:42:52	1	1.5039	1.0	1.00
49	CCB	09 Jul 2008	09:43:36	1	0.0058	1.0	1.00
50	1114366S-44797	09 Jul 2008	09:44:20	1	1.2729	1.0	1.00

} include 1/5 dil. @ digest

oil >
 25g → 35mL

= 127.29

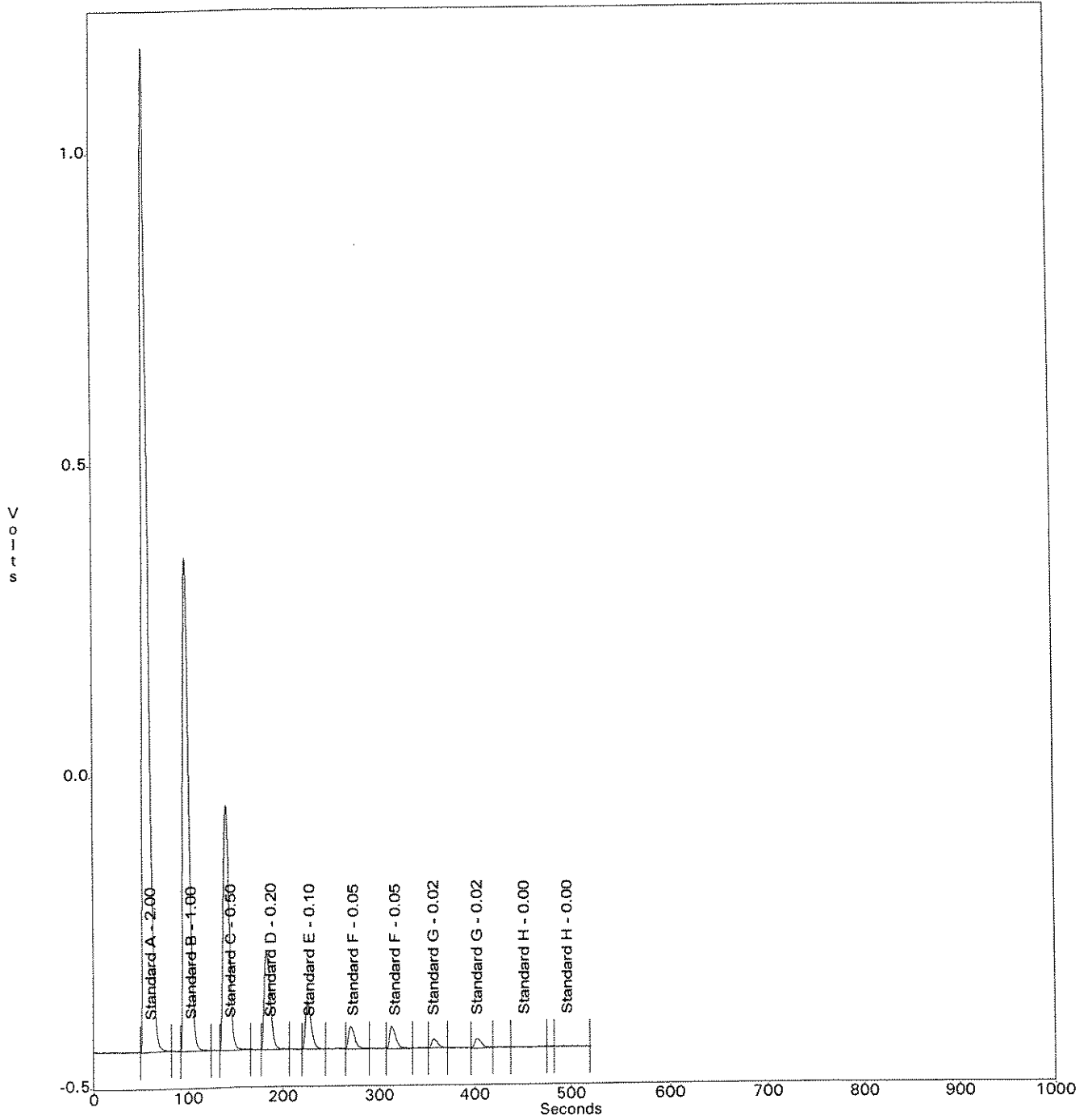
OPERATOR: NMEAD
 ACQ. TIME: Jul 9, 2008 9:34:15
 DATA FILENAME: C:\OMNION\DATA\080709A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080709A2.TRA

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
51	1114376S	09 Jul 2008	09:45:03	1	0.6580	1.0	1.00	- air spike - rpt @ # 58
52	1114379S	09 Jul 2008	09:45:47	1	8.9795	10.0	1.00	= 863.41
53	1114380S	09 Jul 2008	09:46:30	1	8.4925	10.0	1.00	= 816.59
54	380S DUP	09 Jul 2008	09:47:13	1	7.7051	10.0	1.00	= 740.88
55	380S SPK TV= 76.9	09 Jul 2008	09:47:56	1	7.7693	10.0	1.00	= 747.05
56	1114382S	09 Jul 2008	09:48:38	1	5.5737	10.0	1.00	= 535.93
57	PB-SOIL RPT	09 Jul 2008	09:49:21	1	0.0164	1.0	1.00	= 25.00 - okay
58	1114376S RPT	09 Jul 2008	09:50:03	1	0.6086	1.0	1.00	= 60.86
59	CCV	09 Jul 2008	09:50:46	1	1.4971	1.0	1.00	
60	CCB	09 Jul 2008	09:51:28	1	0.0058	1.0	1.00	Small air - less than ppt

OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 8:43:02
DATA FILENAME: C:\OMNION\DATA\0807090A.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807090A.TRA

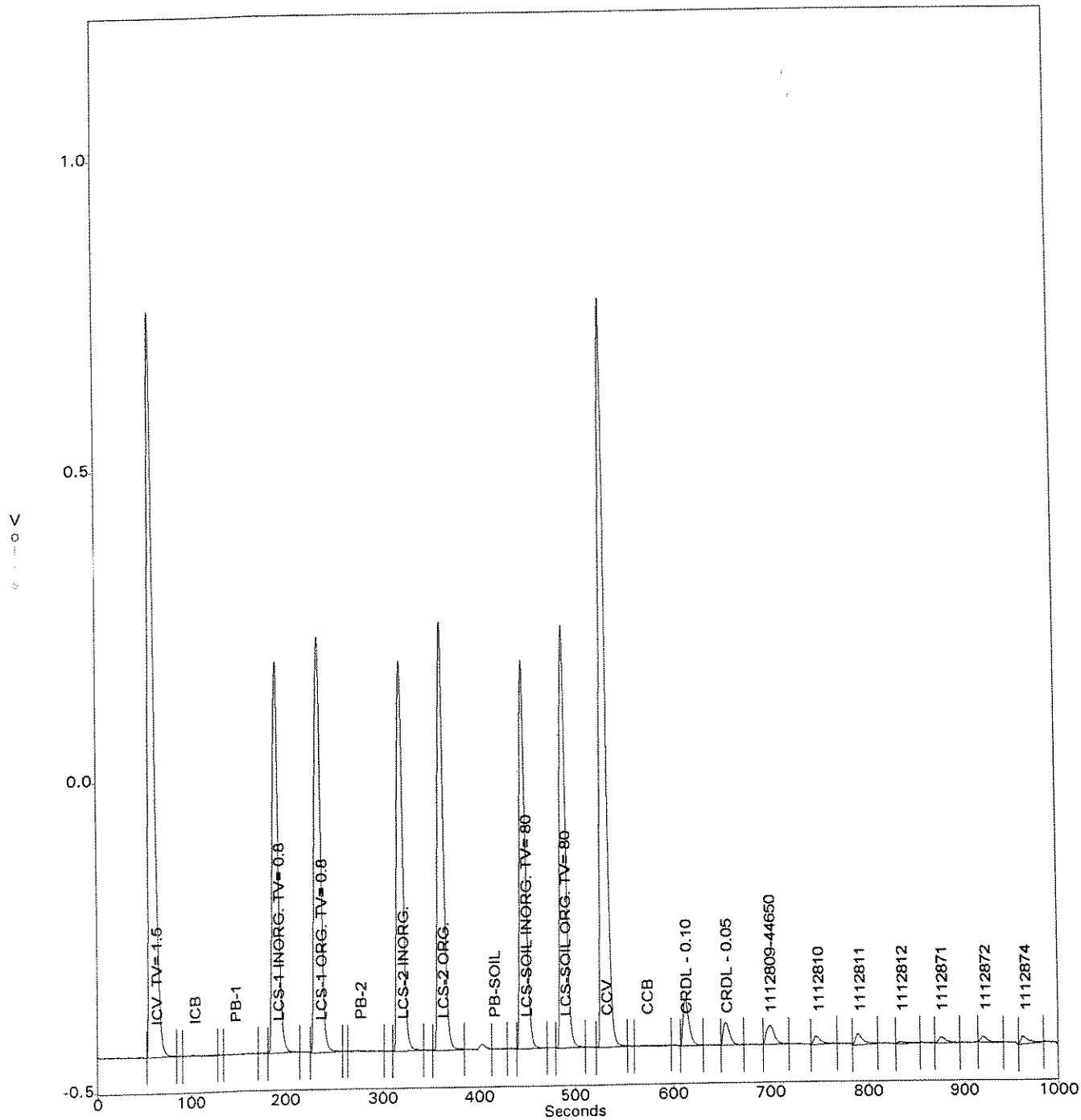
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 9, 2008 8:55:50
C:\OMNION\DATA\080709A1.FDT
C:\OMNION\TRAYS\0807090A.TRA

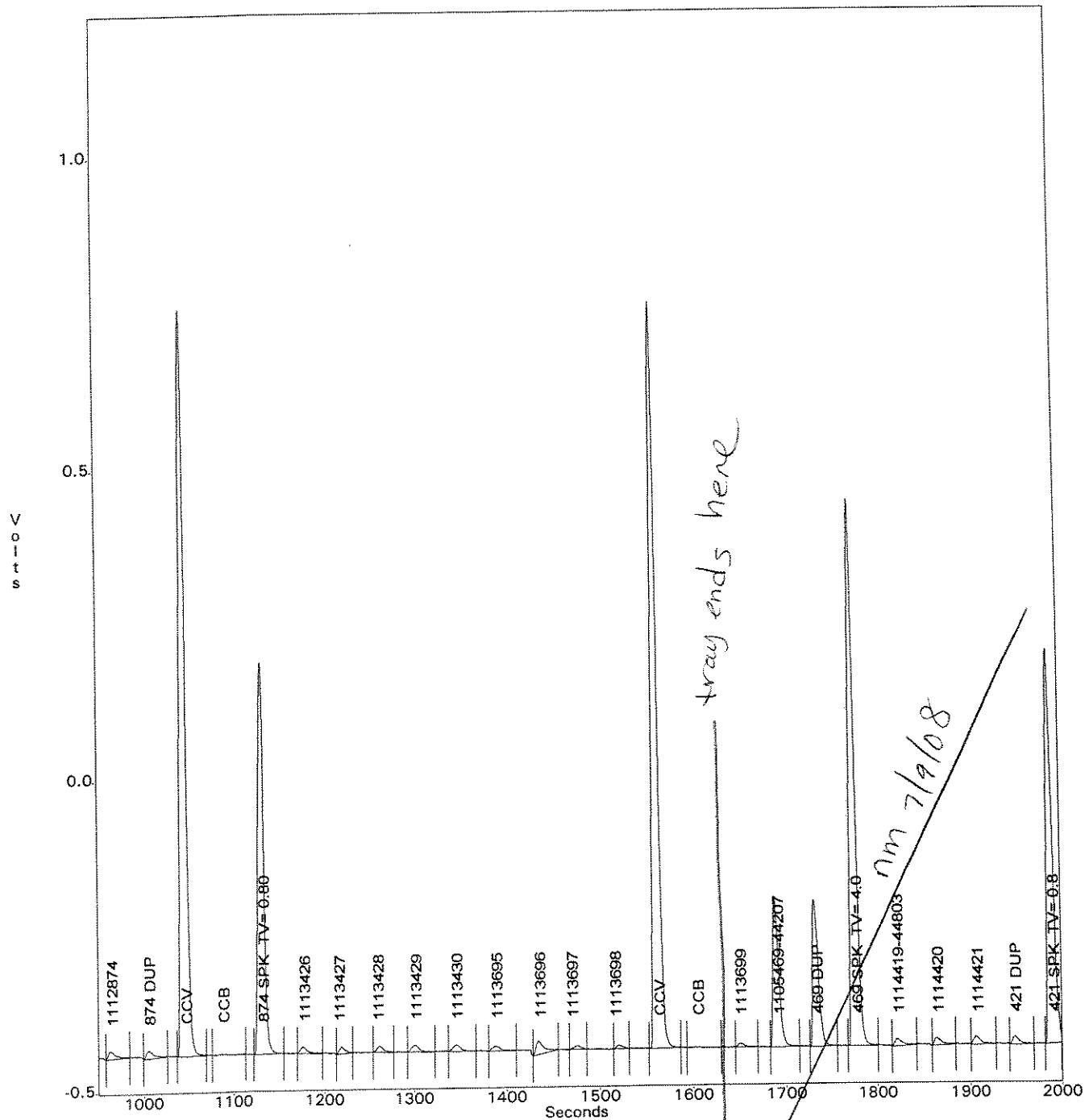
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 9, 2008 8:55:50
C:\OMNION\DATA\080709A1.FDT
C:\OMNION\TRAYS\0807090A.TRA

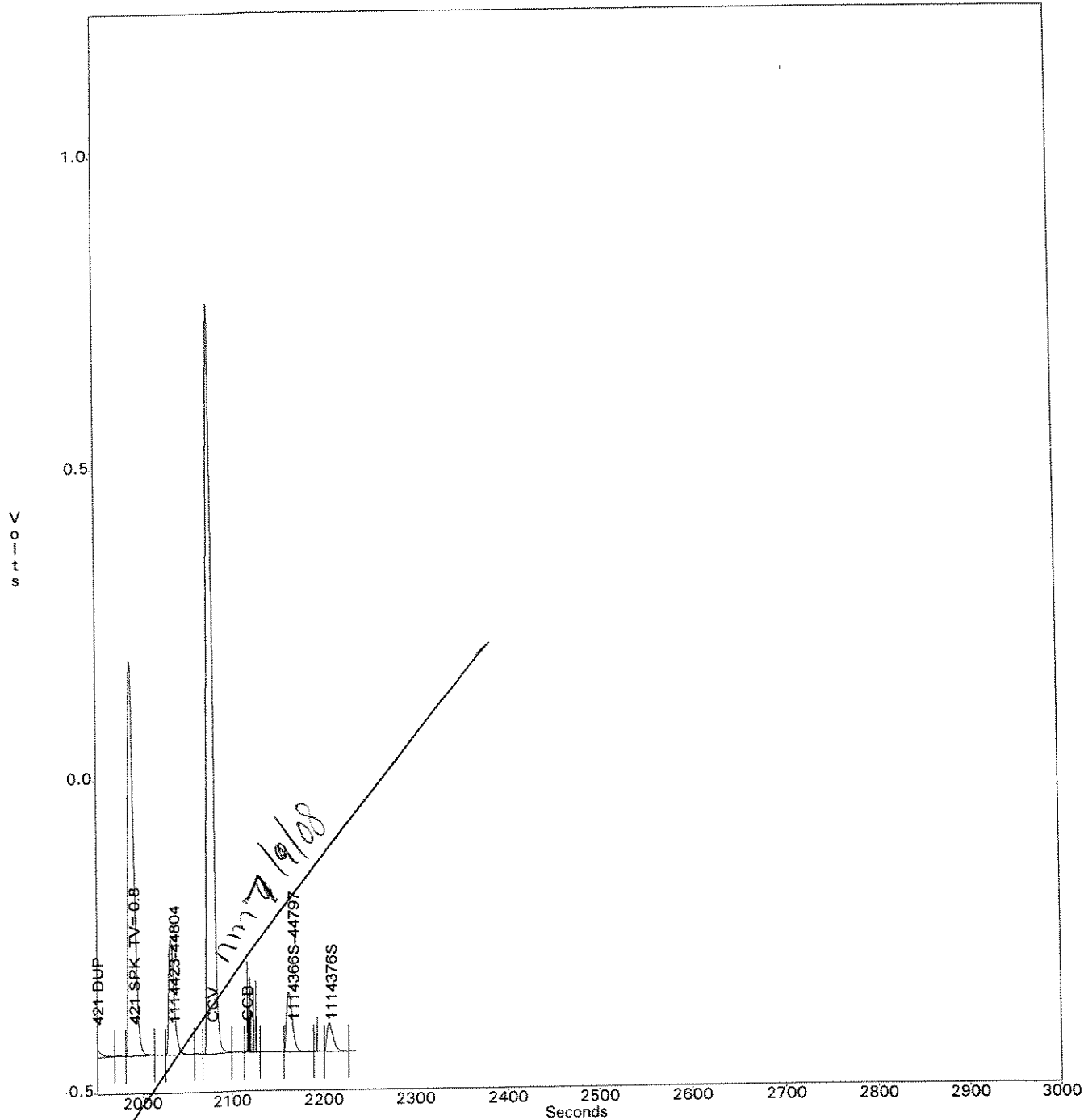
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

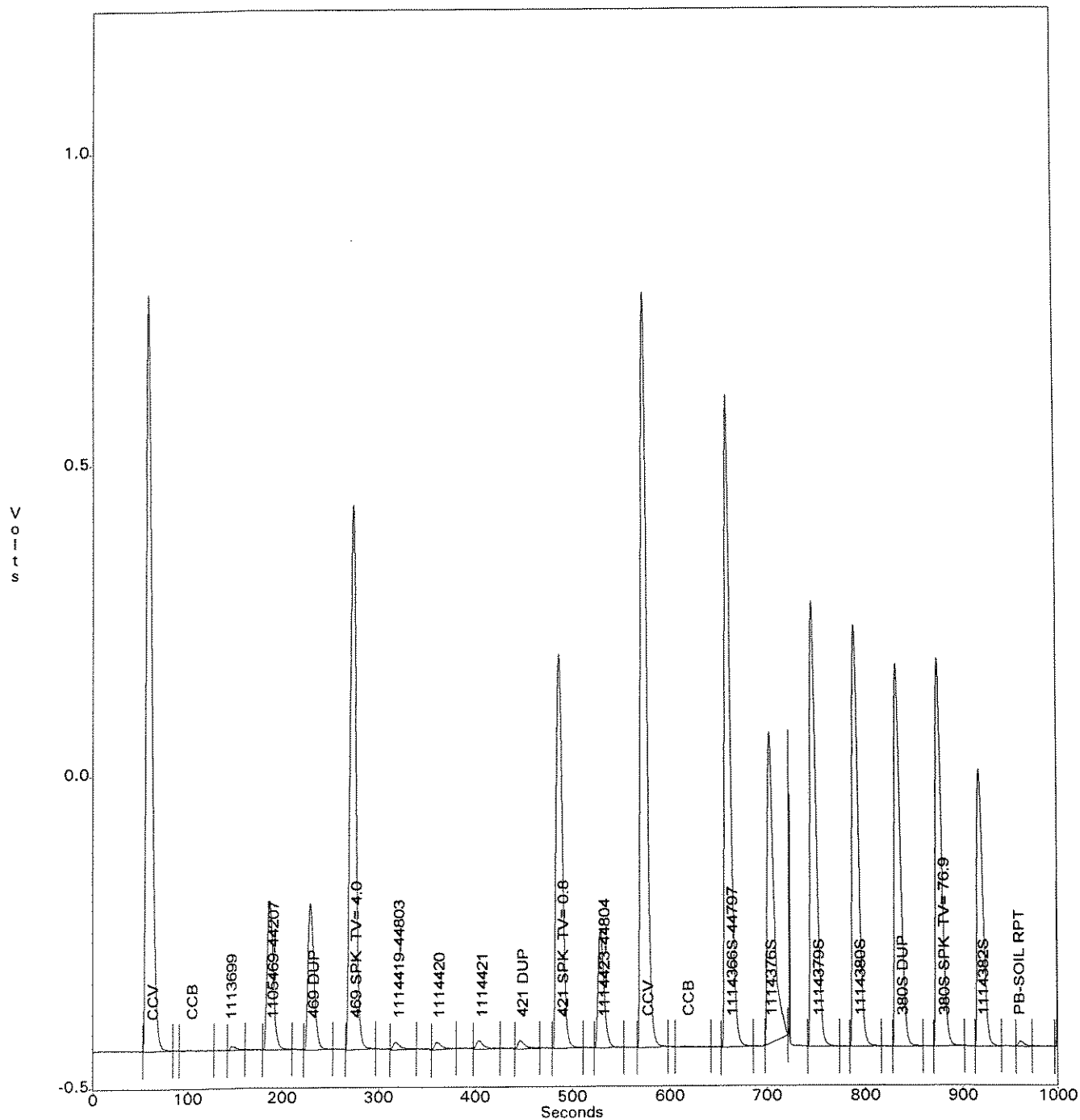
NMEAD
Jul 9, 2008 8:55:50
C:\OMNION\DATA\080709A1.FDT
C:\OMNION\TRAYS\0807090A.TRA

Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 9:34:15
DATA FILENAME: C:\OMNION\DATA\080709A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080709A2.TRA

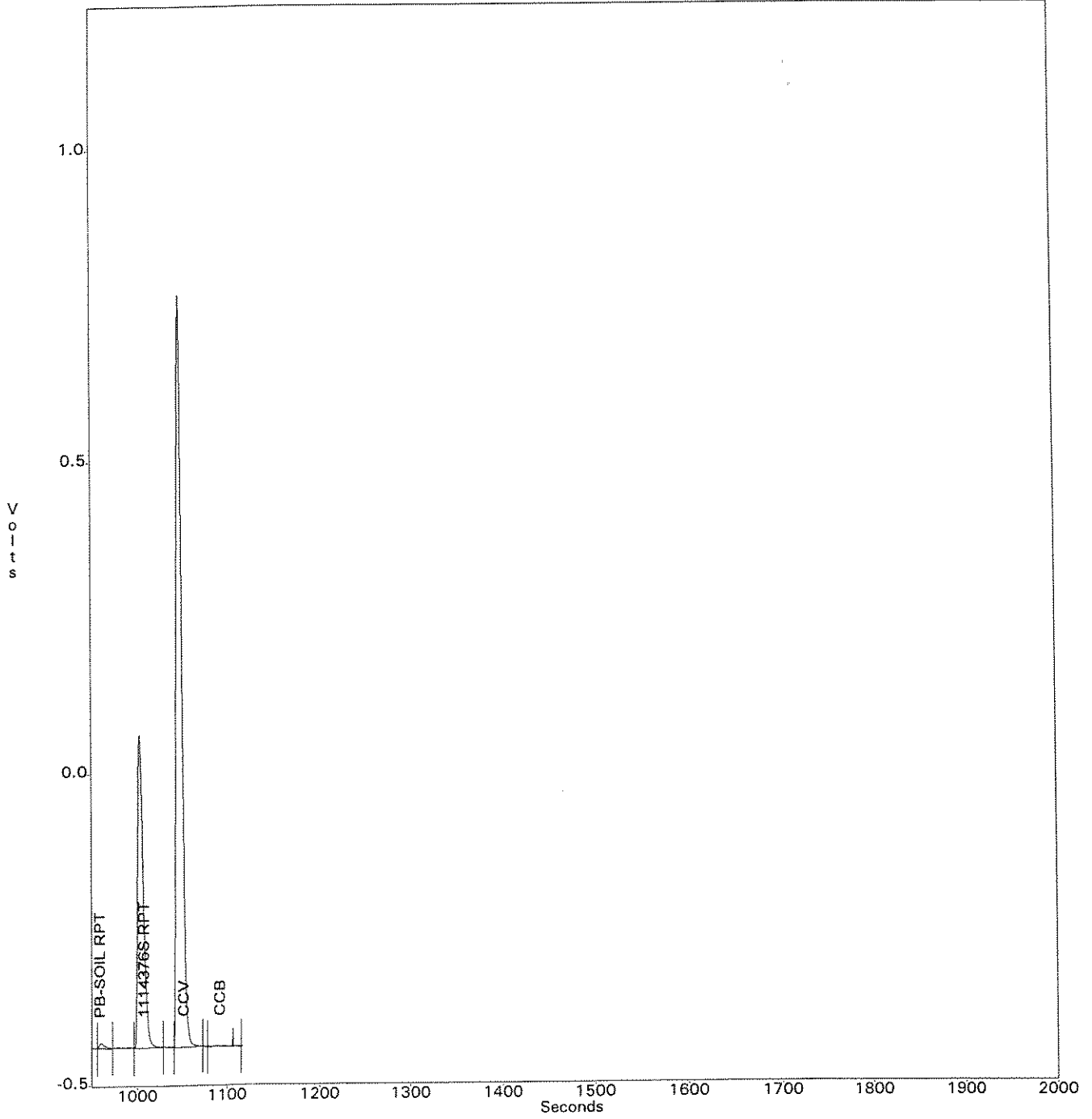
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 9, 2008 9:34:15
C:\OMNION\DATA\080709A2.FDT
C:\OMNION\TRAYS\080709A2.TRA

Channel 1 - OC 8000 365.1 Total Phosphorus



OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 8:43:02
DATA FILENAME: C:\OMNION\DATA\0807090A.FDT
METHOD FILENAME: C:\OMNION\METHODS\TPO4B.MET
TRAY FILENAME: C:\OMNION\TRAYS\0807090A.TRA

TRAY DESCRIPTION:

Created: Jul 8, 2008 14:04:30
Modified: Jul 9, 2008 7:48:03
QC 8000 365.1 TPO4 - RUN LOG - TPO4B 0807090A

DATA DESCRIPTION:

Created: Jul 9, 2008 8:43:02
Modified: Jul 9, 2008 8:43:02

Method - Ch. 1 (QC 8000 365.1 Total Phosphorus)

METHOD DESCRIPTION:

Created: Feb 25, 2008 14:38:43
Modified: Jul 2, 2008 10:24:29
Total Phosphorus - 2.00 -- 0.05

ANALYTE DATA:

Analyte Name: QC 8000 365.1 Total Phosphorus
Concentration Units: mg/L
Chemistry: Direct
Inject to Peak Start (s): 13.0
Peak Base Width (s): 16.961
% Width Tolerance: 60.000
Threshold: 6416.000
Autodilution Trigger: Off
QuikChem Method: 10-115-01-1-E

CALIBRATION DATA:

Levels:

1 : 2.000	2 : 1.000	3 : 0.500	4 : 0.200
5 : 0.100	6 : 0.050	7 : 0.020	8 : 0.000

Calibration Rep Handling: Average
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: None
Concentration Scaling: None

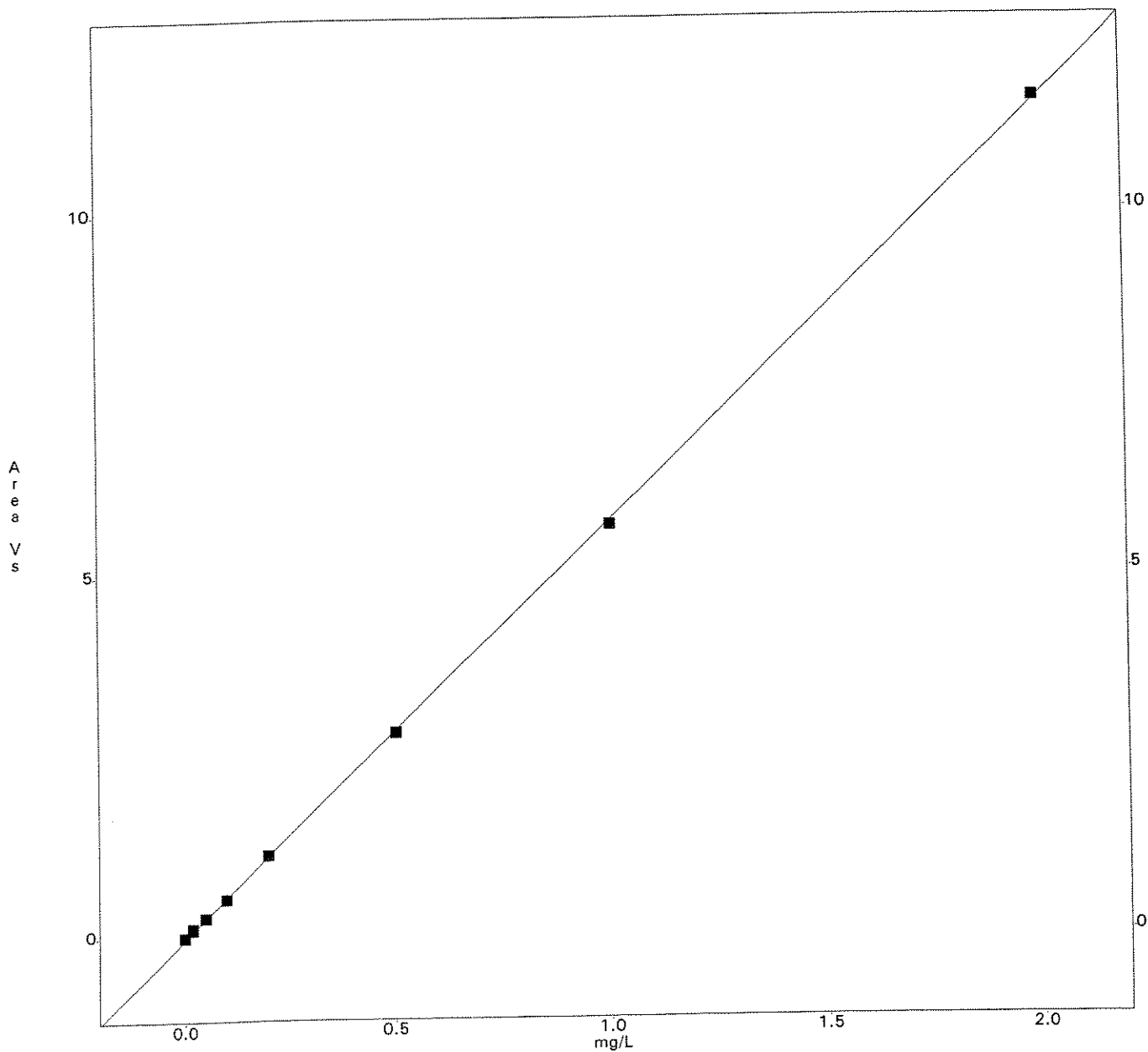
QC 8000 365.1 Total Phosphorus

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	11535703	2.00	11535703					0.0	0.0	-0.4
2	5652370	1.00	5652370					0.0	0.0	1.3
3	2802146	0.50	2802146					0.0	0.0	1.6
4	1128787	0.20	1128787					0.0	0.0	-0.8
5	526371	0.10	526371					0.0	0.0	2.9
6	270098	0.05	269782	270414				446.9	0.2	-5.3
7	113813	0.02	123806	103820				14132.2	12.4	-27.6
8	0	0.00	0	0				0.0	0.0	

pipette ID: TY

1st Order Poly
 Conc = $1.736e-007$ Area + $5.762e-003$
 r = 0.9999

Scaling: None - Weighting: None



Printed: Wednesday, July 09, 2008 - 08:51 AM

2/26/08 ^{TC 2126108} (A) C-0250N Na₂S₂O₃ - Sulfides

RP Dilute 50mls 0.1N Na₂S₂O₃ (WC85067D) to 200mls volumetrically w/ DI. Store for 2 weeks at 4°C. Exp. 3/11/08

2/25/08 ^{TC 2126108} (B) TP04 Reg. Level Calibration for 008000

TC (B) make a $\frac{1}{10}$ 10ppm Standard Working Stock by preparing two serial dilutions of the 1000ppm TP04 Standard Stock (WC720001T)

(C) Cal. Standards - fresh per run

Std	Std Conc. (mg/L)	mls of 10ppm Working Stock (WC720001T)	mls of Carrier/Diluent ^{TC 2126108}
A	2.00	2.0	8.0
B	1.00	1.0	9.0
C	0.50 0.50	0.50	9.5
D	0.20	1/10 dilution of Std A	
E	0.10	1/10 dilution of Std B	
F	0.050	1/10 dilution of Std C	
G	0.020	1/10 dilution of Std D.	
H	0.000	use Carrier/Diluent only	

(D) ~~CCV/ICV~~ ^{TC 2126108} TV=1.50

Add

(D) make a 10ppm Reference Working Stock by preparing two serial dilutions of the 1000ppm TP04 Reference Stock (WC85011F)

(E) ^{TP04} ICV/CCV TV=1.50

Add 1.50mls of the 10ppm Reference Working Stock (WC85011F) to 8.5mls Carrier/Diluent. Fresh per run.

(F) ^{Inorganic | Organic} TP04 RL LCS/MS TV=0.80ppm

To 25mls sample of LIPDI add 0.20mls of 100ppm Standard Stock (prepared by making a 1/10 dilution of the 1000ppm Standard Stock) ^(WC720001T)
 organic LCS is prepared from 100ppm Organic Standard ^(WC55051H)

ted volumetrically
bottle. @ 4°C

10/9/07
NM

(A) NH₃ Carrier/Diluent

- same as WC85035A. Prepared solution x 3.

(B) Hypochlorite - NH₃

- To a tared 1-L amber jar add

- 350 mLs Sodium Hypochlorite (WC85047B)

- 350 mLs UPDI

Prepare fresh each run.

1/2 add
ell.

10/9/07 (C) TKN Digest Reagent

TC To a 2 liter vol. flask add:

- 268.0 g K₂SO₄ (WC85037A)

- 14.6 g Copper II Sulfate (WC85040A)

to ~900 mL UPDI

Slowly add 268 mL conc. in situ analyzed H₂SO₄
(WC85024E)

Stir until dissolved. Allow to cool. Exp. 1 month 11/10

10/9/07 (D) Buffer - NH₃

NM

- same as WC85021D. Exp. 1 year, 10/9/08.

10/10/07 (E) NO₂ Color Reagent - Kowals

GN

- same as WC85032A. Exp. 1 month 11/10/07

10/9/07 (WC85050E).

10/10/07 (F) Post-Digestion Matrix Match - TKN

NM

To a 2-L vol. flask add 800 mL TKN Digest Reagent
(WC85051C) and bring to volume w/UPDI. Mix
thoroughly. Pour off 100 mL and discard. Bring back
volume w/UPDI. Mix thoroughly. Store @ RT in
amber glass. Exp. 11/9/07.

to, Cat# ZX0048-1,
45-6. Store RT.

(G) Hypochlorite - TKN

- same as ~~WC85047~~ WC85049G. Prepare fresh each run.

10/9/07, Cat# 2533-35,
WC85017G.

10/10/07

(H) 100ppm Organic Phosphorous Standard - TPO4

TC

in a 1 liter vol. flask dissolve 0.9885g
β-Glycerophosphoric acid, Disodium Salt, 5-Hydrate
(WC76143D) w/ DI. Bring to vol. w/ DI. Store in
amber glass @ 4°C. Exp. 1 yr. 10/10/09.

2.
CAS# 108-95-2.

1) brought
- Resh

id
2/07

or (HYPO)

Br)

g dried @ 104°C for 1hr
11/9/08

the add:

adjust pH
exp 1 yr. 11/9/08.

chemically
at 4°C.

Autotitrator Solutions

Ⓐ 0.100N KIO₃

In a 2L vol. flask, dissolve 42.8g KIO₃ (WC85067E) and bring to volume with DI. Store at RT. Exp 11/9/08

Ⓑ 0.01M KI

In a 1 L vol. flask, dissolve 99.0g KI (WC85046H) and bring to volume with DI. Store at RT. Exp 11/9/08

Ⓒ Sulfanilamide Color Reagent - TKN

To a total 1 Liter amber bottle add:

- 78g DI
- 15g H₂SO₄ (WC76279E)
- 0.90g ^{NEO} ~~FAA~~ (WC76202H)
- 36g Sulfanilamide (WC76161G)

Stir until dissolved. Store at RT. exp. 1 month, 11/9/08.

11/2/07 Ⓓ TKN Digest Reagent

In a 2 liter vol. flask dissolve:
- 268g K₂SO₄ (WC85066D)
- 14.6g CuSO₄ (WC85040A)
- 268 ml conc. emmitrace H₂SO₄ (WC85067G)
in UPPI. Stir until dissolved. Cool and bring to vol. w/ UPPI. Exp. 1 month, 11/2/07.

11/2/07 Ⓔ TSS Reference

0.2230 g Kaolin (WC69285 G) brought to 1000g w/ DI. Stored at 4°C in a plastic bottle.

N = 223 mg/L exp. 11/12/08

11/2/07 Ⓕ TPO₄ 1000 ppm Reference Stock

4.394g KH₂PO₄ (WC85054G) previously dried for 2 hours @ 104°C. Dissolve in ~800 ml DI in a 1 liter vol. flask, bring to vol. w/ DI. Store in amber glass @ 4°C. for 1 yr. Exp 11/2/08.

11/2/07 Ⓖ Iodate-Iodate Titrant for Sulfites

0.4458g KIO₃ (WC69234F) + 4.25g KI (WC76272E) + 0.310g NaHCO₃ (WC76115E) diluted to 1 L in vol. flask with DI Store at 4°C. exp 11/2/08

STANDARD STOCK PREP
(Fluoride and Bromide are purchased 1000ppm standards)

By: CB / UC / UC
Date: 5/9/05 / 7/19/06 / 11/16/07

Chloride 1000ppm Stock: 1.648g NaCl crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ room temp. for 1 year.

ID Letter	NaCl Source	Analyst	Date Prepared	Date Expires	Final Cl 1000ppm Stock ID
* A	WC69074D	BB	2/23/04	2/23/05	WC72001A
B	WC69074D	BB	2/23/05	2/23/06	WC72001B
C	WC69074D	TC	2/21/06	2/14/07	WC72001C
D	WC76105F	FN	2/5/07	2/5/08	WC72001D
E					

* Previously WC69084A

Nitrite 1000ppm Stock: 6.07g KNO2 previously dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KNO2 Source	Analyst	Date Prepared	Date Expires	Final NO2 1000ppm Stock ID
2* F	WC55288D	BB	2/27/04	2/27/05	WC72001F
G	WC69234I	BB	2/23/05	2/23/06	WC72001G
H	WC69234I	TC	2/22/06	2/22/07	WC72001H
I	WC69234I	FN	2/5/07	2/1/08	WC72001I
J	WC85099D	NIM	1/31/08	1/31/09	WC72001J

2* Previously WC69089A

Nitrate 1000ppm Stock: 7.22g KNO3 crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Transfer to amber jar and add 1.0ml Chloroform. Store in amber jar @ room temp. for 6 months.

ID Letter	KNO3 Source	Chloroform Source ID	Analyst	Date Prepared	Date Expires	Final NO3 1000ppm Stock ID
3* K	WC65172E	WC69078E	BB	8/10/04	2/10/05	WC72001K
L	WC65017E	WC69108E	BB	2/8/05	8/8/05	WC72001L
M	WC65017E	WC69174F	JPM	7/25/05	1/25/06	WC72001M
N	WC65017E	WC69245F	FN	1/23/06	7/23/06	WC72001N
O	WC65017E	WC69245F	FN	4/12/06	10/12/06	WC72001O

3* Previously WC690163E

OPO4/TPO4 1000ppm Stock: 4.394g KH2PO4 dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KH2PO4 Source	Analyst	Date Prepared	Date Expires	Final OPO4/TPO4 1000ppm Stock ID
4* P	WC65017D	BB	2/24/04	2/24/05	WC72001P
Q	WC65017D	BB	2/23/05	2/23/06	WC72001Q
R	WC69196E	TC	2/21/06	2/21/07	WC72001R
S	WC69245E	TC	2/23/07	2/23/08	WC72001S
T	WC85085E	RP	2/14/08	2/14/09	WC72001T

4* Previously WC69085D

Sulfate 1000ppm Stock: 1.479g Na2SO4 dried overnight at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	Na2SO4 Source	Analyst	Date Prepared	Date Expires	Final SO4 1000ppm Stock ID
5* U	WC65168D	BB	2/24/04	2/24/05	WC72001U
V	WC65168D	BB	2/23/05	2/23/06	WC72001V
W	WC6018A	TC	2/22/06	2/22/07	WC72001W
X	WC70015A	FN	2/5/07	2/5/08	WC72001X
Y	WC6153E	NIM	1/31/08	1/31/09	WC72001Y

5* Previously WC69085A

DATE PRINTED: 07/02/08

SOLIDS / GREASE & OIL REPORT

RUN #: 163035 ANALYSIS DATE: 06/27/08 ASSIGNED TO :
TEMPLATE: SM2540D TOTAL SUSPENDED SOLIDS (TSS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL				VOL (ml)	(mg/L)	FLASK/	LS	LS
			TYPE	GROSS (g)	TARE (g)	DIFF (g)			DISH ID	JOB#	LOC#
1	1114207	R28 0	MBLK	(1.3697-	1.3698)=	-0.0001	*1E6 /1000	=-0.100	39		
2	1114208	R28 0	LCS	(1.3961-	1.3746)=	0.0215	*1E6 /100	= 215	54		
3	1111763	R2844538	ESMP	(1.3697-	1.3663)=	0.0034	*1E6 /1000	=3.40	55		
4	1111764	R2844538	ESMP	(1.3875-	1.3692)=	0.0183	*1E6 /1000	=18.3	56		
5	1111765	R2844538	ESMP	(1.3647-	1.3641)=	0.0006	*1E6 /1000	=0.600	57		
6	1106113	R2844263	ESMP	(1.3817-	1.3787)=	0.0030	*1E6 /1000	=3.00	58		
7	1111971	R2844645	ESMP	(1.3628-	1.3560)=	0.0068	*1E6 /480	=14.2	59		
8	1112065	R2844650	ESMP	(1.3709-	1.3690)=	0.0019	*1E6 /1000	=1.90	60		
9	1112066	R2844650	ESMP	(1.3626-	1.3594)=	0.0032	*1E6 /1000	=3.20	61		
10	1112067	R2844650	ESMP	(1.3611-	1.3612)=	-0.0001	*1E6 /1000	=-0.100	62		
11	1093425	R2843431	ESMP	(1.3867-	1.3750)=	0.0117	*1E6 /63.5	= 184	63		
12	1114209	R28 0	DUPE	(1.3617-	1.3512)=	0.0105	*1E6 /62.5	= 168	63		
13	1093426	R2843431	ESMP	(1.3549-	1.3513)=	0.0036	*1E6 /1000	=3.60	65		
14	1106195	R2844269	ESMP	(1.3693-	1.3598)=	0.0095	*1E6 /1000	=9.50	66		
15	1106199	R2844269	ESMP	(1.3603-	1.3543)=	0.0060	*1E6 /1000	=6.00	67		
16	1106203	R2844269	ESMP	(1.3443-	1.3418)=	0.0025	*1E6 /1000	=2.50	68		
17	1106207	R2844269	ESMP	(1.3514-	1.3437)=	0.0077	*1E6 /1000	=7.70	69		
18	1112486	R2844650	ESMP	(1.3592-	1.3586)=	0.0006	*1E6 /1000	=0.600	700		
19	1112487	R2844650	ESMP	(1.3696-	1.3682)=	0.0014	*1E6 /985	=1.42	71		
20	1112488	R2844650	ESMP	(1.3395-	1.3397)=	-0.0002	*1E6 /1000	=-0.200	72		
21	1112489	R2844650	ESMP	(1.3645-	1.3638)=	0.0007	*1E6 /1000	=0.700	73		

02932

Analyte: Total Suspended Solids (TSS)

Method: 160.2 / SM20 2540D

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

Analyst: E. WOLFE

Pipet: N/A

Date: 6/27/08

Time: 14:45

TS _____ TDS _____ TSS X

LCS Lot: WC85169B TV: 212 Balance ID: AE240

Filter Lot: WC85154B Oven ID: 2 *Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)	
1	MB	39	1000		Gross (A) 1:	1.3697	Gross (A) 3:	-0.10	
					Gross (A) 2:	1.3697			
					B)	1.3698	A-B=		-0.0001
2	LCS	54	100		Gross (A) 1:	1.3961	Gross (A) 3:	215.00	
					Gross (A) 2:	1.3962			
					B)	1.3746	A-B=		0.0215
3	44538	R-1111763	55	1000		Gross (A) 1:	1.3697	Gross (A) 3:	3.40
						Gross (A) 2:	1.3699		
						B)	1.3663	A-B=	
4	R-1111764	56	1000			Gross (A) 1:	1.3876	Gross (A) 3:	18.30
						Gross (A) 2:	1.3875		
						B)	1.3692	A-B=	
5	R-1111765	57	1000			Gross (A) 1:	1.3648	Gross (A) 3:	0.60
						Gross (A) 2:	1.3647		
						B)	1.3641	A-B=	
6	44263	R-1106113	58	1000		Gross (A) 1:	1.3817	Gross (A) 3:	3.00
						Gross (A) 2:	1.3817		
						B)	1.3787	A-B=	
7	44645	R-1111971	59	480	X	Gross (A) 1:	1.3628	Gross (A) 3:	14.17
						Gross (A) 2:	1.3629		
						B)	1.3560	A-B=	
8	44650	R-1112065	60	1000		Gross (A) 1:	1.3710	Gross (A) 3:	1.90
						Gross (A) 2:	1.3709		
						B)	1.3690	A-B=	
9	R-1112066	61	1000			Gross (A) 1:	1.3626	Gross (A) 3:	3.20
						Gross (A) 2:	1.3626		
						B)	1.3594	A-B=	
10	R-1112067	62	1000			Gross (A) 1:	1.3611	Gross (A) 3:	-0.10
						Gross (A) 2:	1.3611		
						B)	1.3612	A-B=	
11	43431	R-1093425	63	63.5		Gross (A) 1:	1.3867	Gross (A) 3:	184.25
						Gross (A) 2:	1.3867		
						B)	1.3750	A-B=	
12	R-1093425 DUP	64	62.5			Gross (A) 1:	1.3617	Gross (A) 3:	168.00
						Gross (A) 2:	1.3618		
						B)	1.3512	A-B=	
13	R-1093426	65	1000			Gross (A) 1:	1.3549	Gross (A) 3:	3.60
						Gross (A) 2:	1.3551		
						B)	1.3513	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 6/27/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 14:45

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS _____ TSS X

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC85169B

TV: 212 Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 2

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)	
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:		
14	44269	R-1106195	66	1000	Gross (A) 1:	1.3693	Gross (A) 3:	9.50	
					Gross (A) 2:	1.3694			
					B)	1.3598	A-B=		0.0095
15	R-1106199	67	1000		Gross (A) 1:	1.3603	Gross (A) 3:	6.00	
					Gross (A) 2:	1.3604			
					B)	1.3543	A-B=		0.0060
16	R-1106203	68	1000		Gross (A) 1:	1.3443	Gross (A) 3:	2.50	
					Gross (A) 2:	1.3445			
					B)	1.3418	A-B=		0.0025
17	R-1106207	69	1000		Gross (A) 1:	1.3514	Gross (A) 3:	7.70	
					Gross (A) 2:	1.3516			
					B)	1.3437	A-B=		0.0077
18	44650	R-1112486	70	1000	Gross (A) 1:	1.3592	Gross (A) 3:	0.60	
					Gross (A) 2:	1.3593			
					B)	1.3586	A-B=		0.0006
19	R-1112487	71	985	X	Gross (A) 1:	1.3696	Gross (A) 3:	1.42	
					Gross (A) 2:	1.3698			
					B)	1.3682	A-B=		0.0014
20	R-1112488	72	1000		Gross (A) 1:	1.3395	Gross (A) 3:	-0.20	
					Gross (A) 2:	1.3396			
					B)	1.3397	A-B=		-0.0002
21	R-1112489	73	1000		Gross (A) 1:	1.3645	Gross (A) 3:	0.70	
					Gross (A) 2:	1.3646			
					B)	1.3638	A-B=		0.0007
22	44621	R-1111897	74	970	X	Gross (A) 1:	1.3655	Gross (A) 3:	2.27
						Gross (A) 2:	1.3657		
						B)	1.3633	A-B=	
23	R-1111898	75	615	X	Gross (A) 1:	1.3640	Gross (A) 3:	15.77	
					Gross (A) 2:	1.3640			
					B)	1.3543	A-B=		0.0097
24	MB	76	1000		Gross (A) 1:	1.3756	Gross (A) 3:	-0.50	
					Gross (A) 2:	1.3757			
					B)	1.3761	A-B=		-0.0005
25	LCS	77	100		Gross (A) 1:	1.3746	Gross (A) 3:	213.00	
					Gross (A) 2:	1.3748			
					B)	1.3533	A-B=		0.0213
26	R-1111899	78	910	X	Gross (A) 1:	1.3605	Gross (A) 3:	10.11	
					Gross (A) 2:	1.3606			
					B)	1.3513	A-B=		0.0092

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 6/27/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 14:45

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS _____ TSS X

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC85169B

TV: 212 Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 2

*Lower tare weight used unless marked:

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
27	R-1111900	79	960	X	Gross (A) 1:	1.3473	Gross (A) 3:	-0.42
					Gross (A) 2:	1.3474		
					B)	1.3477	A-B=	
28	R-1111983	80	795		Gross (A) 1:	1.3701	Gross (A) 3:	7.04
					Gross (A) 2:	1.3704		
					B)	1.3645	A-B=	
29	R-1111983 DUP	81	805		Gross (A) 1:	1.3573	Gross (A) 3:	7.95
					Gross (A) 2:	1.3572		
					B)	1.3508	A-B=	
30	R-1111984	82	605		Gross (A) 1:	1.3633	Gross (A) 3:	11.07
					Gross (A) 2:	1.3634		
					B)	1.3566	A-B=	
31	R-1111985	83	780		Gross (A) 1:	1.3675	Gross (A) 3:	21.92
					Gross (A) 2:	1.3676		
					B)	1.3504	A-B=	
32	R-1111986	84	1000		Gross (A) 1:	1.3615	Gross (A) 3:	-0.30
					Gross (A) 2:	1.3616		
					B)	1.3618	A-B=	
33	R-1111987	85	1000		Gross (A) 1:	1.3561	Gross (A) 3:	2.30
					Gross (A) 2:	1.3561		
					B)	1.3538	A-B=	
34	42942 R-1085904	86	100		Gross (A) 1:	1.3658	Gross (A) 3:	68.00
					Gross (A) 2:	1.3659		
					B)	1.3590	A-B=	
35	R-1085904 DUP	87	100		Gross (A) 1:	1.3684	Gross (A) 3:	68.00
					Gross (A) 2:	1.3686		
					B)	1.3616	A-B=	
36	43440 R-1093532	88	95		Gross (A) 1:	1.3584	Gross (A) 3:	63.16
					Gross (A) 2:	1.3586		
					B)	1.3524	A-B=	
37	R-1093534	89	33		Gross (A) 1:	1.3652	Gross (A) 3:	200.00
					Gross (A) 2:	1.3653		
					B)	1.3586	A-B=	
38	R-1093535	90	216		Gross (A) 1:	1.3838	Gross (A) 3:	20.37
					Gross (A) 2:	1.3839		
					B)	1.3794	A-B=	
39	R-1093535 DUP	91	215		Gross (A) 1:	1.3682	Gross (A) 3:	20.00
					Gross (A) 2:	1.3683		
					B)	1.3639	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 6/27/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 14:45

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS _____ TDS _____ TSS X

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC85169B

TV: 212 Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 2

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)	
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:		
40	R-1093537	92	1000		Gross (A) 1:	1.3559	Gross (A) 3:	3.60	
					Gross (A) 2:	1.3560			
					B)	1.3523	A-B=		0.0036
41	43626	R-1096089	93	1000		Gross (A) 1:	1.3525	Gross (A) 3:	3.10
						Gross (A) 2:	1.3527		
						B)	1.3494	A-B=	
42	44647	R-1112012	117	2		Gross (A) 1:	1.3709	Gross (A) 3:	2050.00
						Gross (A) 2:	1.3711		
						B)	1.3668	A-B=	
43	R-1112013	95	2.5			Gross (A) 1:	1.3576	Gross (A) 3:	1480.00
						Gross (A) 2:	1.3577		
						B)	1.3539	A-B=	
44	R-1112014	96	2.1			Gross (A) 1:	1.3495	Gross (A) 3:	1666.67
						Gross (A) 2:	1.3497		
						B)	1.3460	A-B=	
45	R-1112015	97	4.2			Gross (A) 1:	1.3658	Gross (A) 3:	1452.38
						Gross (A) 2:	1.3659		
						B)	1.3597	A-B=	
46	R-1112016	98	2.5			Gross (A) 1:	1.3562	Gross (A) 3:	3160.00
						Gross (A) 2:	1.3564		
						B)	1.3483	A-B=	
47	R-1112017	99	2.4			Gross (A) 1:	1.3644	Gross (A) 3:	4083.33
						Gross (A) 2:	1.3644		
						B)	1.3546	A-B=	
48	R-1112018	101	2			Gross (A) 1:	1.3759	Gross (A) 3:	6950.00
						Gross (A) 2:	1.3760		
						B)	1.3620	A-B=	
49	43440	R-1093532 DUP	115	92		Gross (A) 1:	1.3622	Gross (A) 3:	59.78
						Gross (A) 2:	1.3624		
						B)	1.3567	A-B=	
50	MB	102	1000			Gross (A) 1:	1.3396	Gross (A) 3:	-0.30
						Gross (A) 2:	1.3399		
						B)	1.3399	A-B=	
51	LCS	103	100			Gross (A) 1:	1.3790	Gross (A) 3:	214.00
						Gross (A) 2:	1.3792		
						B)	1.3576	A-B=	
52	44647	R-1112019	104	1.8		Gross (A) 1:	1.3872	Gross (A) 3:	6888.89
						Gross (A) 2:	1.3873		
						B)	1.3748	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mLs)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 6/27/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 14:45

Analyte: Total Dissolved Solids (TDS)

Method: 160.1 / SM20 2540C

TS

TDS

TSS X

Analyte: Total Solids (TS)

Method 160.3 / SM20 2540B

LCS Lot: WC85169B

TV: 212 Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 2

*Lower tare weight used unless marked:

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
53	MB	105	1000		Gross (A) 1:	1.3612	Gross (A) 3:	-0.50
					Gross (A) 2:	1.3614		
					B)	1.3617	A-B=	
54	LCS	106	100		Gross (A) 1:	1.3857	Gross (A) 3:	218.00
					Gross (A) 2:	1.3859		
					B)	1.3639	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW

Date: 6/27/08

Analysis: Total Suspended Solids

Instrument: Mettler AE 240 Analytical Balance
 Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC85169B	6/24/08				212
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The difference between successive gross dry weights should be less than 4% of the previous weight or 0.5 mg, whichever is less.

As a rule, both the lower tare weight and the lower of the successive dry weights are used for calculation.

B) to 200 mLs
 all volume equals 400 mLs)

6/24/08 (A) Ascorbic Acid - TPC4
 Nm - same as WC85164I. Exp. 1 yr, 7/1/08

6/24/08 (B) TSS Reference
 EW 0.2121g Kaolin (WC69285G) brought to 1000g
 w/DI.
 Store in Plastic Bottle @ 4°C
 TV = 212 mg/L Exp: 6/24/09 (4409)

1/24/08

6/24/08 Received from VWR
 AB (C) (1) x 125g Potassium Hydrogen Phthalate,
 Cat # PX1476-3, EMD Lot # 47183801, CAS #
 877-24-7. Store @ R.T. Expires 6/24/13.

sch run.

5

6/25/08 Received from Honeywell
 CMW (D) (4) x 4L Chloroform, CAT# 048-4, Honeywell
 Lot # CW014. CAS# 67-66-3. Store @ RT.
 Expires 5 years from receipt, 6/25/2013.
 (E) (4) x 4L Chloroform, CAT# 048-4, Honeywell
 Lot # CW310. CAS# 67-66-3. Store @ RT.
 Expires 5 years from receipt, 6/25/2013.

ical, Cat#
 12011.
 01-0.

6/25/08 (F) Buffer - TOTN
 Nm - same as WC85146A. Exp. 1 year, 6/25/09.

(C)

0

0.3

1.0

2.0

3.0

(G) Color Reagent - TOTN
 - same as WC85123A. Exp. 1 month, 7/25/08.

6/25/08 Received from VWR
 AB (H) (2) x 100g Ammonium Persulfate, ultra pure,
 Cat # 4030-04, JT Baker Lot # G22476, CAS
 # 7727-54-0. Store @ 4°C. Expires 5/31/2010

Carbon
 carbon.

4/25/08 (I) Alkalinity Reference 5x1m 50mg/L
 10.0 ml 5000 mg/L Alk Ref. Stock (WC85157H) to 1 L vol. with DI.
 Store in plastic at 4°C exp to months 12/2/08

analyze.

R44650
 R44621
 R44252
 30 caps

2 runs

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	POL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLK5		1114678	WATER	-0.300	1.0	1.00			07/01/2008		
SPKB		1114679	WATER	216	1.0	1.00	101.9		07/01/2008		
ESMP	R2844265	1106121	WATER	3.40	1.0	1.00			07/01/2008	RUN	2
LDUP		1114684	WATER	2.80	1.0	1.00		19.35	07/01/2008		
ESMP	R2844650	1112809	WATER	34.5	1.0	1.00			07/01/2008		ASPB
ESMP	R2844650	1112810	WATER	11.9	1.0	1.00			07/01/2008		ASPB
ESMP	R2844650	1112811	WATER	6.20	1.0	1.00			07/01/2008		ASPB
ESMP	R2844650	1112812	WATER	-0.102	1.0	1.00			07/01/2008		ASPB
ESMP	R2844650	1112871	WATER	0.300	1.0	1.00			07/01/2008		ASPB
ESMP	R2844650	1112872	WATER	0.500	1.0	1.00			07/01/2008		ASPB
ESMP	R2844650	1112874	WATER	3.10	1.0	1.00			07/01/2008	QC	ASPB
LDUP		1114680	WATER	3.00	1.0	1.00		3.28	07/01/2008		
ESMP	R2844650	1113426	WATER	0.600	1.0	1.00			07/01/2008		ASPB
ESMP	R2844650	1113427	WATER	9.80	1.0	1.00			07/01/2008		ASPB
ESMP	R2844650	1113428	WATER	5.20	1.0	1.00			07/01/2008		ASPB
ESMP	R2844650	1113429	WATER	11.4	1.0	1.00			07/01/2008		ASPB
ESMP	R2844650	1113430	WATER	1.00	1.0	1.00			07/01/2008		ASPB

Records printed: 17

Reviewed & Approved
 By: CK
 Date: 7/7/08

DATE PRINTED: 07/03/08

SOLIDS / GREASE & OIL REPORT

RUN #: 163198 ANALYSIS DATE: 07/01/08 ASSIGNED TO :

TEMPLATE: SM2540D TOTAL SUSPENDED SOLIDS (TSS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL				VOL (ml)	(mg/L)	FLASK/	LS	LS
			TYPE	GROSS (g)	TARE (g)	DIFF (g)			DISH ID	JOB#	LOC#
1	1114678	R28 0	MBLK	(1.3606-	1.3609)=	-0.0003	*1E6 /1000	=-0.300	10		
2	1114679	R28 0	LCS	(1.3749-	1.3533)=	0.0216	*1E6 /100	= 216	11		
3	1106121	R2844265	ESMP	(1.3694-	1.3660)=	0.0034	*1E6 /1000	=3.40	12		
4	1114684	R28 0	DUPE	(1.3674-	1.3646)=	0.0028	*1E6 /1000	=2.80	29		
5	1112809	R2844650	ESMP	(1.3891-	1.3620)=	0.0271	*1E6 /785	=34.5	13		
6	1112810	R2844650	ESMP	(1.3869-	1.3752)=	0.0117	*1E6 /980	=11.9	14		
7	1112811	R2844650	ESMP	(1.3736-	1.3674)=	0.0062	*1E6 /1000	=6.20	15		
8	1112812	R2844650	ESMP	(1.3427-	1.3428)=	-0.0001	*1E6 /980	=-0.102	16		
9	1112871	R2844650	ESMP	(1.3716-	1.3713)=	0.0003	*1E6 /1000	=0.300	17		
10	1112872	R2844650	ESMP	(1.3615-	1.3610)=	0.0005	*1E6 /1000	=0.500	18		
11	1112874	R2844650	ESMP	(1.3637-	1.3606)=	0.0031	*1E6 /1000	=3.10	19		
12	1114680	R28 0	DUPE	(1.3614-	1.3584)=	0.0030	*1E6 /1000	=3.00	20		
13	1113426	R2844650	ESMP	(1.3546-	1.3540)=	0.0006	*1E6 /1000	=0.600	21		
14	1113427	R2844650	ESMP	(1.3764-	1.3666)=	0.0098	*1E6 /1000	=9.80	22		
15	1113428	R2844650	ESMP	(1.3673-	1.3621)=	0.0052	*1E6 /1000	=5.20	23		
16	1113429	R2844650	ESMP	(1.3664-	1.3550)=	0.0114	*1E6 /1000	=11.4	24		
17	1113430	R2844650	ESMP	(1.3608-	1.3608)=	0.0000	*1E6 /1000	=0	25		

Analyte: Total Suspended Solids (TSS)
 Method: 160.2 / SM20 2540D
 Analyte: Total Dissolved Solids (TDS)
 Method: 160.1 / SM20 2540C
 Analyte: Total Solids (TS)
 Method 160.3 / SM20 2540B

Analyst: E. WOLFE
 Pipet: N/A

Date: 7/1/08
 Time: 14:30

TS _____ TDS _____ TSS X

LCS Lot: WC85169B TV: 212 Balance ID: AE240

Filter Lot: WC85154B Oven ID: 2 *Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
1	MB	10	1000		Gross (A) 1:	1.3607	Gross (A) 3:	-0.30
					Gross (A) 2:	1.3606		
					B)	1.3609	A-B=	
2	LCS	11	100		Gross (A) 1:	1.3749	Gross (A) 3:	216.00
					Gross (A) 2:	1.3749		
					B)	1.3533	A-B=	
3	44265 R-1106121	12	1000		Gross (A) 1:	1.3694	Gross (A) 3:	3.40
					Gross (A) 2:	1.3694		
					B)	1.3660	A-B=	
4	44650 R-1112809	13	785		Gross (A) 1:	1.3892	Gross (A) 3:	34.52
					Gross (A) 2:	1.3891		
					B)	1.3620	A-B=	
5	R-1112810	14	980	X	Gross (A) 1:	1.3871	Gross (A) 3:	11.94
					Gross (A) 2:	1.3869		
					B)	1.3752	A-B=	
6	R-1112811	15	1000		Gross (A) 1:	1.3736	Gross (A) 3:	6.20
					Gross (A) 2:	1.3736		
					B)	1.3674	A-B=	
7	R-1112812	16	980	X	Gross (A) 1:	1.3427	Gross (A) 3:	-0.10
					Gross (A) 2:	1.3427		
					B)	1.3428	A-B=	
8	R-1112871	17	1000		Gross (A) 1:	1.3716	Gross (A) 3:	0.30
					Gross (A) 2:	1.3716		
					B)	1.3713	A-B=	
9	R-1112872	18	1000		Gross (A) 1:	1.3615	Gross (A) 3:	0.50
					Gross (A) 2:	1.3615		
					B)	1.3610	A-B=	
10	R-1112874	19	1000		Gross (A) 1:	1.3637	Gross (A) 3:	3.10
					Gross (A) 2:	1.3637		
					B)	1.3606	A-B=	
11	R-1112874 DUP	20	1000		Gross (A) 1:	1.3614	Gross (A) 3:	3.00
					Gross (A) 2:	1.3614		
					B)	1.3584	A-B=	
12	R-1113426	21	1000		Gross (A) 1:	1.3547	Gross (A) 3:	0.60
					Gross (A) 2:	1.3546		
					B)	1.3540	A-B=	
13	R-1113427	22	1000		Gross (A) 1:	1.3765	Gross (A) 3:	9.80
					Gross (A) 2:	1.3764		
					B)	1.3666	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
 Where: A = wgt (g) of dried residue + dish
 B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)
 Method: 160.2 / SM20 2540D
 Analyte: Total Dissolved Solids (TDS)
 Method: 160.1 / SM20 2540C
 Analyte: Total Solids (TS)
 Method 160.3 / SM20 2540B

Analyst: E. WOLFE
 Pipet: N/A

Date: 7/1/08
 Time: 14:30

TS _____ TDS _____ TSS X

LCS Lot: WC85169B TV: 212 Balance ID: AE240
 Filter Lot: WC85154B Oven ID: 2 *Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
14	R-1113428	23	1000		Gross (A) 1:	1.3673	Gross (A) 3:	5.20
					Gross (A) 2:	1.3674		
					B)	1.3621	A-B=	
15	R-1113429	24	1000		Gross (A) 1:	1.3665	Gross (A) 3:	11.40
					Gross (A) 2:	1.3664		
					B)	1.3550	A-B=	
16	R-1113430	25	1000		Gross (A) 1:	1.3608	Gross (A) 3:	0.00
					Gross (A) 2:	1.3608		
					B)	1.3608	A-B=	
17	44621 R-1112968	26	1000		Gross (A) 1:	1.3648	Gross (A) 3:	0.80
					Gross (A) 2:	1.3648		
					B)	1.3640	A-B=	
18	R-1112969	27	1000		Gross (A) 1:	1.3802	Gross (A) 3:	3.50
					Gross (A) 2:	1.3802		
					B)	1.3767	A-B=	
19	44252 R-1112985	28	1000		Gross (A) 1:	1.3663	Gross (A) 3:	1.60
					Gross (A) 2:	1.3663		
					B)	1.3647	A-B=	
20	44265 R-1106121 DUP	29	1000		Gross (A) 1:	1.3674	Gross (A) 3:	2.80
					Gross (A) 2:	1.3674		
					B)	1.3646	A-B=	
21	MB	30	1000		Gross (A) 1:	1.3656	Gross (A) 3:	-0.20
					Gross (A) 2:	1.3656		
					B)	1.3658	A-B=	
22	LCS	31	100		Gross (A) 1:	1.3757	Gross (A) 3:	214.00
					Gross (A) 2:	1.3758		
					B)	1.3543	A-B=	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

COLUMBIA ANALYTICAL SERVICES, INC

Tare Weights:

Instrument: X Mettler AE240 Analytical Balance
 Mettler AG204 Analytical Balance

Analyst: E. WOLFE
 Date: 7/1/08

Drying Tins: X Dish 104°C: **Weight** **Actual**
 Crucible 550°C: Dish 550°C: **s Weights (s):** 0.9999 g 1 g
 Dish 180°C: G/O Dishes: g g

ID Number	Weight	
10	1.3609	1.3609
11	1.3534	1.3533
12	1.3660	1.3660
13	1.3621	1.3620
14	1.3753	1.3752
15	1.3675	1.3674
16	1.3428	1.3428
17	1.3713	1.3713
18	1.3611	1.3610
19	1.3607	1.3606
20	1.3584	1.3584

ID Number	Weight	
21	1.3540	1.3540
22	1.3667	1.3666
23	1.3622	1.3621
24	1.3551	1.3550
25	1.3608	1.3608
26	1.3640	1.3640
27	1.3768	1.3767
28	1.3647	1.3647
29	1.3647	1.3646
30	1.3659	1.3658
31	1.3543	1.3543

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW

Date: 7/11/08

Analysis: Total Suspended Solids

Instrument: Mettler AE 240 Analytical Balance
 Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC85169B	6/24/08				212
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The difference between successive gross dry weights should be less than 4% of the previous weight or 0.5 mg, whichever is less.

As a rule, both the lower tare weight and the lower of the successive dry weights are used for calculation.

B) to 200mLs
 all volume equals 400mLs)

6/24/08 (A) Ascorbic Acid - TPO4
 Nm - same as WC85164I. Exp. 1 wk, 7/1/08

6/24/08 (B) TSS Reference
 EW 0.2121g Kaolin (WC69285G) brought to 1000g w/DI.
 Store in Plastic Bottle @ 4°C
 TV = 212 mg/L Exp: 6/24/09 (4409)

124/08

6/24/08 Received from VWR
 AB (C) (1) x 125g Potassium Hydrogen Phthalate,
 Cat # PX1476-3, EMD Lot # 47183801, CAS #
 877-24-7. Store @ R.T. Expires 6/24/13.

wh run.

□

6/25/08 (D) Received from Honeywell
 Cmw (B) (4) x 4L Chloroform, CAT# 048-4, Honeywell
 Lot # CW014. CAS# 67-66-3. Store @ RT.
 Expires 5 years from receipt, 6/25/2013.
(E) (4) x 4L Chloroform, CAT# 048-4, Honeywell
 Lot # CW310. CAS# 67-66-3. Store @ RT.
 Expires 5 years from receipt, 6/25/2013.

ical, Cat#
 12011.
 21-0.

6/25/08 (F) Buffer - TOTN
 Nm - same as WC85146A. Exp. 1 year, 6/25/09.

↓ (G) Color Reagent - TOTN
 - same as WC85123A. Exp. 1 month, 7/25/08.

(C)
 0
 0.3
 1.0
 1.0
 2.0

6/25/08 Received from VWR
 AB (H) (2) x 100g Ammonium Persulfate, ultrapure,
 Cat # 4030-04, JT Baker Lot # G22476, CAS
 # 7727-54-0. Store @ 4°C. Expires 5/31/2010

Carbon
 carbon.

6/25/08 (I) Alkalinity Reference Sol'n 50mg/L
 Cmw 10.0 ml 5000 mg/L Alk Ref. Stock (WC85157H) to 1L vol. with DI.
 Store in plastic at 4°C exp 6 months 12/2/08

analyze.