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CLIENT: **ENSR**

PROJECT: **UPGRADIENT INVESTIGATION, TRONOX**

SDG: **06C204**

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** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax:(310) 618-0818

Date: 04-19-2006
EMAX Batch No.: 06C204

Attn: Linda Geddes

MWH
750 Royal Oaks Dr, Suite 100
Monrovia CA 91016-3629

Subject: Laboratory Report
Project: Upgradient Investigation, Tronox

Enclosed is the Laboratory report for samples received on 03/23/06.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
M-120	C204-01	03/22/06	WATER	VOLATILE ORGANICS BY GC/MS
				DIESEL RANGE ORGANICS
				GASOLINE RANGE ORGANICS
				METHANOL & ETHANOL
				MOTOR OIL
				ETHYLENE GLYCOL
				PESTICIDES ORGANOCHLORINE
				PESTICIDES ORGANOPHOSPHORUS
				POLYCHLORINATED BIPHENYLS (PCBS)
				SEMIVOLATILE ORGANICS BY GCMS
				IGNITABILITY
				SULFITE ION SELECTIVE
				PHOSPHATE-P BY IC
				SEMIVOLATILE ORGANICS SIM
TRIP BLANK	C204-02	03/22/06	WATER	VOLATILE ORGANICS BY GC/MS
				GASOLINE RANGE ORGANICS
				METHANOL & ETHANOL
				ETHYLENE GLYCOL
M-118	C204-03	03/22/06	WATER	VOLATILE ORGANICS BY GC/MS

Sample ID	Control #	Col Date	Matrix	Analysis
				DIESEL RANGE ORGANICS
				GASOLINE RANGE ORGANICS
				METHANOL & ETHANOL
				MOTOR OIL
				ETHYLENE GLYCOL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

C9/VW01-26

ENSR INTERNATIONAL

ENSR International
1220 Avenida Acaso
Camarillo, CA 93012-8738
Phone (805) 388-3775
Fax (805) 388-3577

ANALYTICAL LAB: EMAX Laboratories
Ye Myint
1835 West 205th Street
Torrance, CA 90501

06C204

SITE Henderson DATE 3/22/06 PAGE 1 OF 1

CLIENT: Tronox LLC
PROJECT NAME: Upgradient Investigation
PROJECT MANAGER: Dave Gerry
JOB #: 04020-023-150
COELT LOG CODE: YES (NO)
SAMPLER SIGNATURE: Brian Ho

LINE ITEM	SAMPLE NO.	DATE	TIME	8260B / 5035 Volatile Organics	8260B BTEX / MTBE / Oxygenates	8015 Diesel / Gasoline Full Range	8081A Pesticides	~~CAM-17~~ Metals	Fuel Alcohols 8015B	[redacted]	OPPs 8141	PCBs 8082	SVOCs 8270	Flash point 1010	Sulfite 377.1	Ortho phosphate 9056	TPH-G 8015	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
1.	M-120	3/22/06	10:20	X		X	X	[redacted]	X	X	X	X	X	X	X	X		W	G/P	16	NOTE: Bottles
2.	Trip Blank	3/22/06	—	X				BK	X	BK							X	W	G	3	for Short Hold
3.	M-118	3/22/06	14:30	X		X			X									W	G	12	Time analyses for
4.																					M-120 were filled
5.																					at 15:30,
6.																					not at 10:20.
7.																					
8.																					
9.																					
10.																					

TURN-AROUND TIME: Standard

MATRIX TYPE: S - Soil, W - Water, O - Other
CONTAINER TYPE: G - Glass Bottle, P - Plastic, O - Other

PRESERVATIVES: All samples are preserved on ice. Water samples are preserved as indicated on the sample labels.

T = 3.5 °C

TEMPERATURE BLANK EACH COOLER: [X] YES [ ] NO

RELINQUISHED BY:	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS:
Brian Ho	Brian Ho	ENSR International	3/22/06	16:15	
RECEIVED BY: Federal	SIGNATURE Express	COMPANY	DATE 3/22/06	TIME 16:15	METHOD OF SHIPMENT: Federal Express
RELINQUISHED BY:	SIGNATURE	COMPANY	DATE	TIME	SPECIAL SHIMENT/HANDLING/STORAGE REQUIREMENTS:
RECEIVED BY V - LUNA	SIGNATURE	COMPANY emax	DATE 3/23/06	TIME 0915	

DISTRIBUTION: White and Canary = Laboratory Pink = ENSR International

Serial No. 5158

2508

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN	06 C2024
☐ EMAX Courier		Recepient	J. Luna
☐ Client Delivery		Date	3-23-06
☑ Third Party Fedex	8562 4166 8702	Time	9:15A

COC Inspection

☑ Client Name	☑ Sampler Name	☑ Sampling Date/Time/Location
☑ Address	☐ Courier Signature/Date/Time	☑ Analysis Required
☑ Client PM/FC	☑ TAT	☑ Matrix
☑ Tel #/Fax #	☑ Sample ID	☑ Preservative (if any)
Safety Issues ☑ None	☐ High Concentrations expected	☐ Superfund Site Samples
Comments: ☐ Rad Screening Required		

Packaging Inspection

Container	☑ Cooler	☐ Box	☐	☐
Condition	☐ Custody Seal	☐ Intact	☐ Damaged	☐
Packaging	☑ Bubble Pack	☐ Styrofoam	☑ Sufficient	☑ Plastic Bag
Temperatures	☑ Cooler 1 3.5°C	☑ Cooler 2 ____	☐ Cooler 3 ____	☐ Cooler 4 ____
	☐ Cooler 5 ____	☐ Cooler 6 ____	☐ Cooler 7 ____	☐ Cooler 8 ____
	☐ Cooler 9 ____	☐ Cooler 10 ____	☐ Cooler 11 ____	☐ Cooler 12 ____

Comments:

LSCID	Client ID	Discrepancy	Corrective Action
01	M-120	No Time on all labels	
02	Trip Blank	only EMAX Trip Blank	
		label on vials – NO Client	
		label on vials.	
03	M-118	Time 11:30 on all the	
		Container's labels.	

LSCID : Lab Sample Container ID

REVIEWS

Sample Labeling _____ Date 3-23-06

SRF _____ Date 3/23/06

PM _____ Date 3/24/06

FedEx Express **US Airbill**

FedEx Tracking Number **8562 4166 8702**

Form ID No. **0200**

Recipient's Copy

1 From

Date 3/22/06

Sender's Name Brian Ho Phone 805 795-3334

Company ENSR 06C204 3/23/06

Address 1220 Avenida Acaso 0915

Dept./Floor/Suite/Room

City Camarillo State CA ZIP 93012

2 Your Internal Billing Reference 04020-023-150

3 To

Recipient's Name Ye Myint Phone 310 618-8889

Company EMAX Laboratories

Recipient's Address 1835 West 205th Street

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Torrance State CA ZIP 90504

8562 4166 8702

4a Express Package Service — *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day, to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* — Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain Recip. Acct. No. [ ]

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	5	$ 500 .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

520

Rev. Date 8/05•Part #158280•G1894–2005 FedEx•PRINTED IN U.S.A. SRF

fedex.com 1.800.GoFedEx 1.800.463.3339

1661

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 06C204

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C204

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Three (3) water samples were received on 03/23/06 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blank was free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limits.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   All recoveries were within QC limits.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All requirements were met.

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C204

METHOD SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Three (3) water samples were received on 03/23/06 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blank was free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limits.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   All recoveries were within QC limits.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C204
Instrument ID : T-067

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V067C46B	1	NA	03/29/0620:06	03/29/0620:06	RCC657	RCC488	V067C46	Method Blank
LCS1W	V067C46L	1	NA	03/29/0617:43	03/29/0617:43	RCC653	RCC488	V067C46	Lab Control Sample (LCS)
LCD1W	V067C46C	1	NA	03/29/0618:19	03/29/0618:19	RCC654	RCC488	V067C46	LCS Duplicate
TRIP BLANK	C204-02	1	NA	03/29/0621:17	03/29/0621:17	RCC659	RCC488	V067C46	Field Sample
M-120	C204-01	1	NA	03/30/0602:03	03/30/0602:03	RCC667	RCC488	V067C46	Field Sample
M-118	C204-03	1	NA	03/30/0602:38	03/30/0602:38	RCC668	RCC488	V067C46	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/30/06 02:03
Sample ID:	M-120	Date Analyzed:	03/30/06 02:03
Lab Samp ID:	C204-01	Dilution Factor:	1
Lab File ID:	RCC667	Matrix	: WATER
Ext Btch ID:	V067C46	% Moisture	: NA
Calib. Ref.:	RCC488	Instrument ID	: T-067

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	115	70-140
4-BROMOFLUOROBENZENE	128	70-130
TOLUENE-D8	108	70-140

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C29\RCC667.D Vial: 20
Acq On : 30 Mar 2006 2:03 am Operator: CGM
Sample : 06C204-01 5.0mL Inst : TO67
Misc : DF=1.0 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 3 10:19 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.16	114	2382938	50.00	ug/l	0.02
36) CHLOROBENZENE-D5	15.72	117	2108464	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.53	152	578853	50.00	ug/l	0.02
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.70	65	594632	57.51	ug/l	0.02
Spiked Amount 50.000			Recovery =	115.02%		
49) Toluene-d8	12.70	98	2511282	53.99	ug/l	0.02
Spiked Amount 50.000			Recovery =	107.98%		
70) 4-Bromofluorobenzene	18.48	95	787148	63.95	ug/l	0.01
Spiked Amount 50.000			Recovery =	127.90%		
Target Compounds						Qvalue
30) Chloroform	8.76	83	18329	0.81	ug/l	97

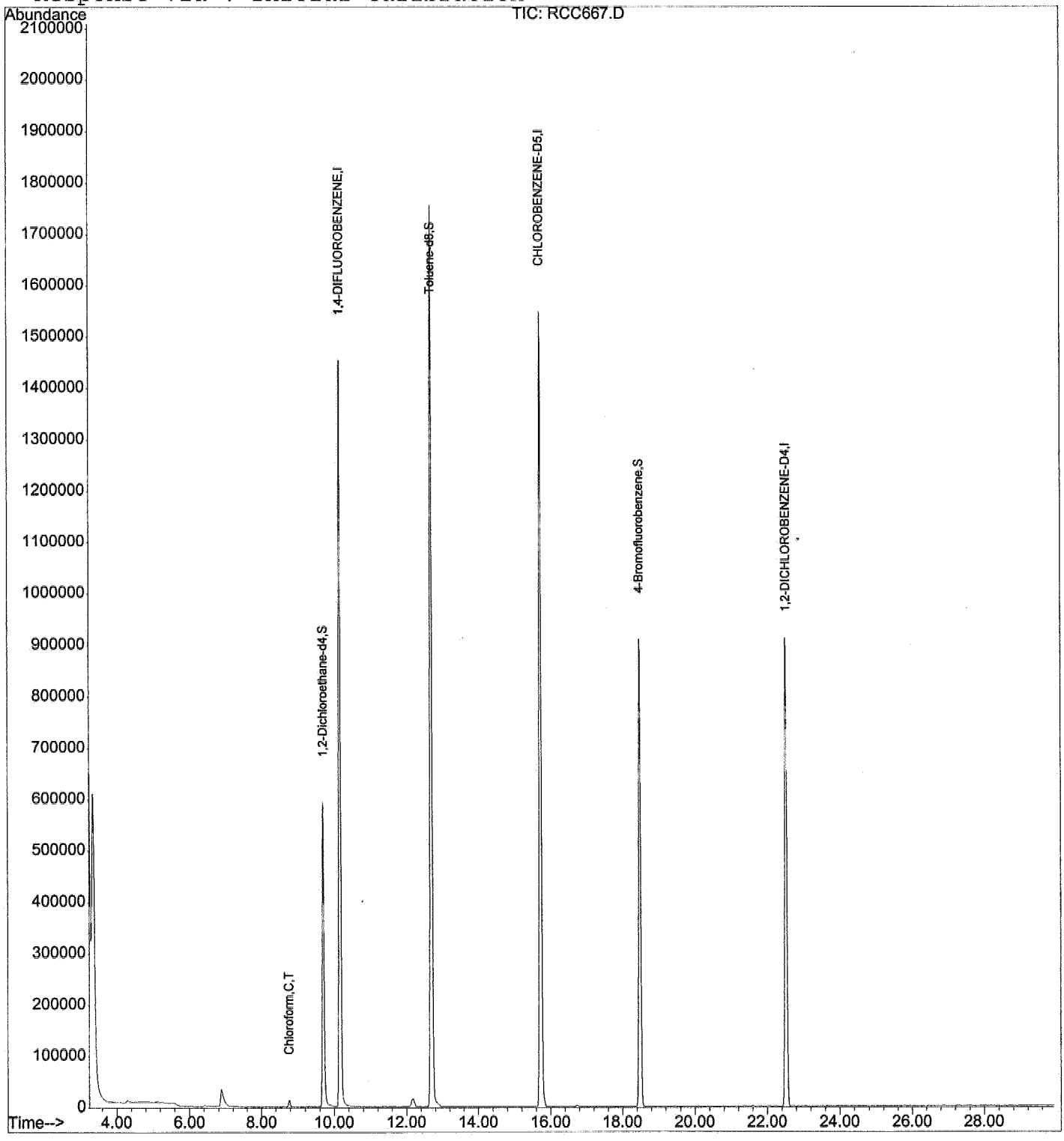
(#) = qualifier out of range (m) = manual integration

2006

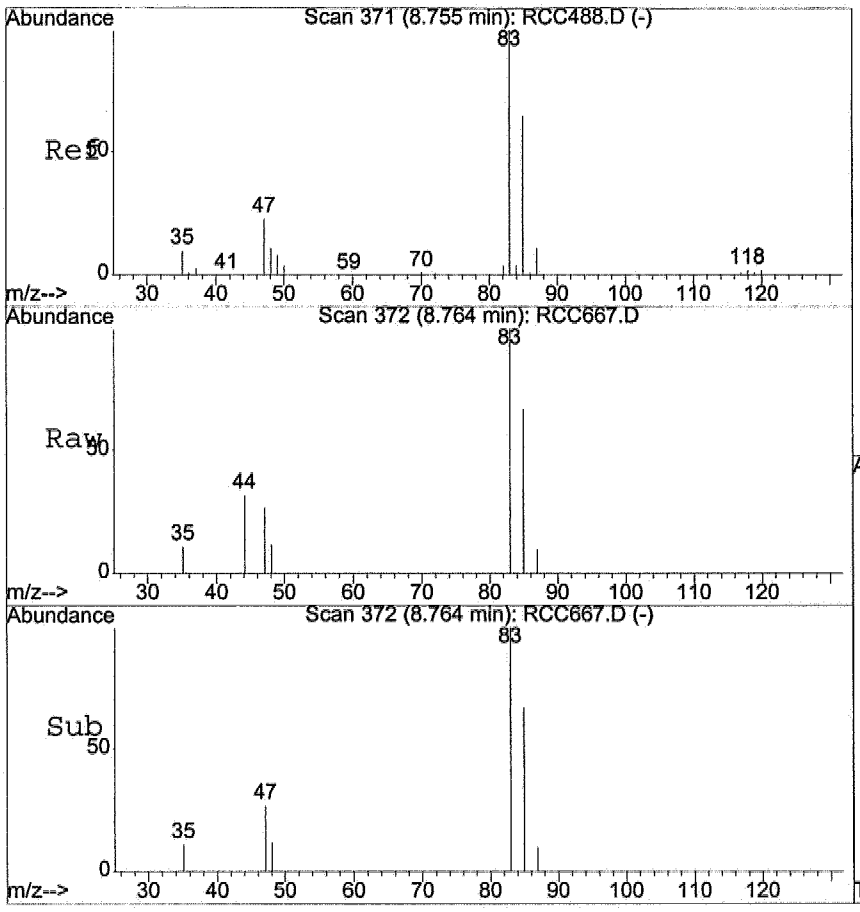
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC667.D Vial: 20
Acq On : 30 Mar 2006 2:03 am Operator: CGM
Sample : 06C204-01 5.0mL Inst : TO67
Misc : DF=1.0 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 3 10:19 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration



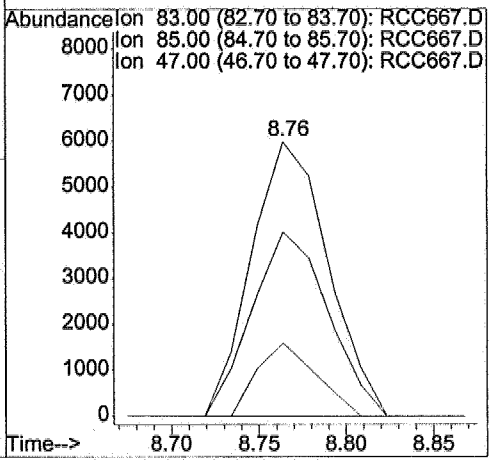
2007



#30
Chloroform
Concen: 0.81 ug/l
RT: 8.76 min Scan# 372
Delta R.T. 0.01 min
Lab File: RCC667.D
Acq: 30 Mar 2006 2:03 am

Tgt Ion: 83 Resp: 18329

Ion	Ratio	Lower	Upper
83	100		
85	66.8	34.9	94.9
47	20.4	0.0	53.5



2008

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : ENSR	Date Collected: 03/22/06
Project : UPGRADIENT INVESTIGATION, TRONOX	Date Received: 03/23/06
Batch No. : 06C204	Date Extracted: 03/29/06 21:17
Sample ID: TRIP BLANK	Date Analyzed: 03/29/06 21:17
Lab Samp ID: C204-02	Dilution Factor: 1
Lab File ID: RCC659	Matrix : WATER
Ext Btch ID: V067C46	% Moisture : NA
Calib. Ref.: RCC488	Instrument ID : T-067

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	109	70-140
4-BROMOFLUOROBENZENE	127	70-130
TOLUENE-D8	109	70-140

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C29\RCC659.D Vial: 12
Acq On : 29 Mar 2006 9:17 pm Operator: CGM
Sample : 06C204-02 5.0mL Inst : TO67
Misc : DF=1.0 TB Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 3 10:14 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2512014	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.72	117	2176318	50.00	ug/l	0.01
66) 1,2-DICHLOROBENZENE-D4	22.52	152	609057	50.00	ug/l	0.01
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	593178	54.42	ug/l	0.01
Spiked Amount 50.000			Recovery =	108.84%		
49) Toluene-d8	12.69	98	2621825	54.60	ug/l	0.01
Spiked Amount 50.000			Recovery =	109.20%		
70) 4-Bromofluorobenzene	18.48	95	821593	63.44	ug/l	0.01
Spiked Amount 50.000			Recovery =	126.88%		

Target Compounds Qvalue

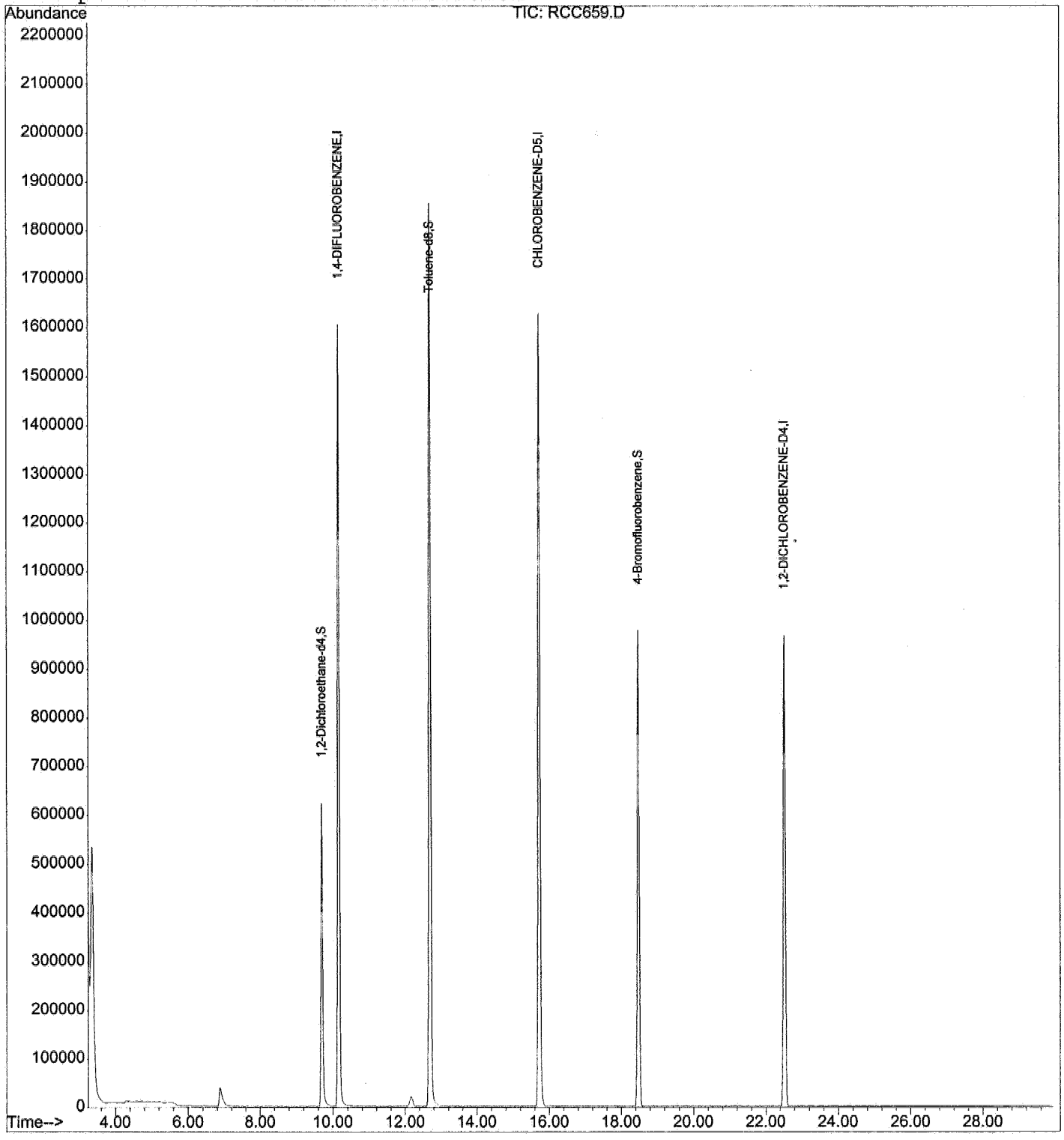
(#) = qualifier out of range (m) = manual integration

2010

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC659.D Vial: 12
Acq On : 29 Mar 2006 9:17 pm Operator: CGM
Sample : 06C204-02 5.0mL Inst : TO67
Misc : DF=1.0 TB Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 3 10:14 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration



2011

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/30/06 02:38
Sample ID:	M-118	Date Analyzed:	03/30/06 02:38
Lab Samp ID:	C204-03	Dilution Factor:	1
Lab File ID:	RCC668	Matrix	: WATER
Ext Btch ID:	VO67C46	% Moisture	: NA
Calib. Ref.:	RCC488	Instrument ID	: T-067

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	113	70-140
4-BROMOFLUOROBENZENE	128	70-130
TOLUENE-D8	108	70-140

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C29\RCC668.D Vial: 21
Acq On : 30 Mar 2006 2:38 am Operator: CGM
Sample : 06C204-03 5.0mL Inst : TO67
Misc : DF=1.0 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 3 10:20 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2385776	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.72	117	2101065	50.00	ug/l	0.01
66) 1,2-DICHLOROBENZENE-D4	22.52	152	573032	50.00	ug/l	0.01
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	586920	56.70	ug/l	0.01
Spiked Amount 50.000			Recovery = 113.40%			
49) Toluene-d8	12.68	98	2510591	54.16	ug/l	0.01
Spiked Amount 50.000			Recovery = 108.32%			
70) 4-Bromofluorobenzene	18.48	95	780761	64.08	ug/l	0.01
Spiked Amount 50.000			Recovery = 128.16%			
Target Compounds						Qvalue
11) Acetone	6.04	43	9745	3.62	ug/l	94
18) Carbon disulfide	6.99	76	46421	1.03	ug/l	100
26) 2-Butanone	8.26	43	10711	1.98	ug/l	77

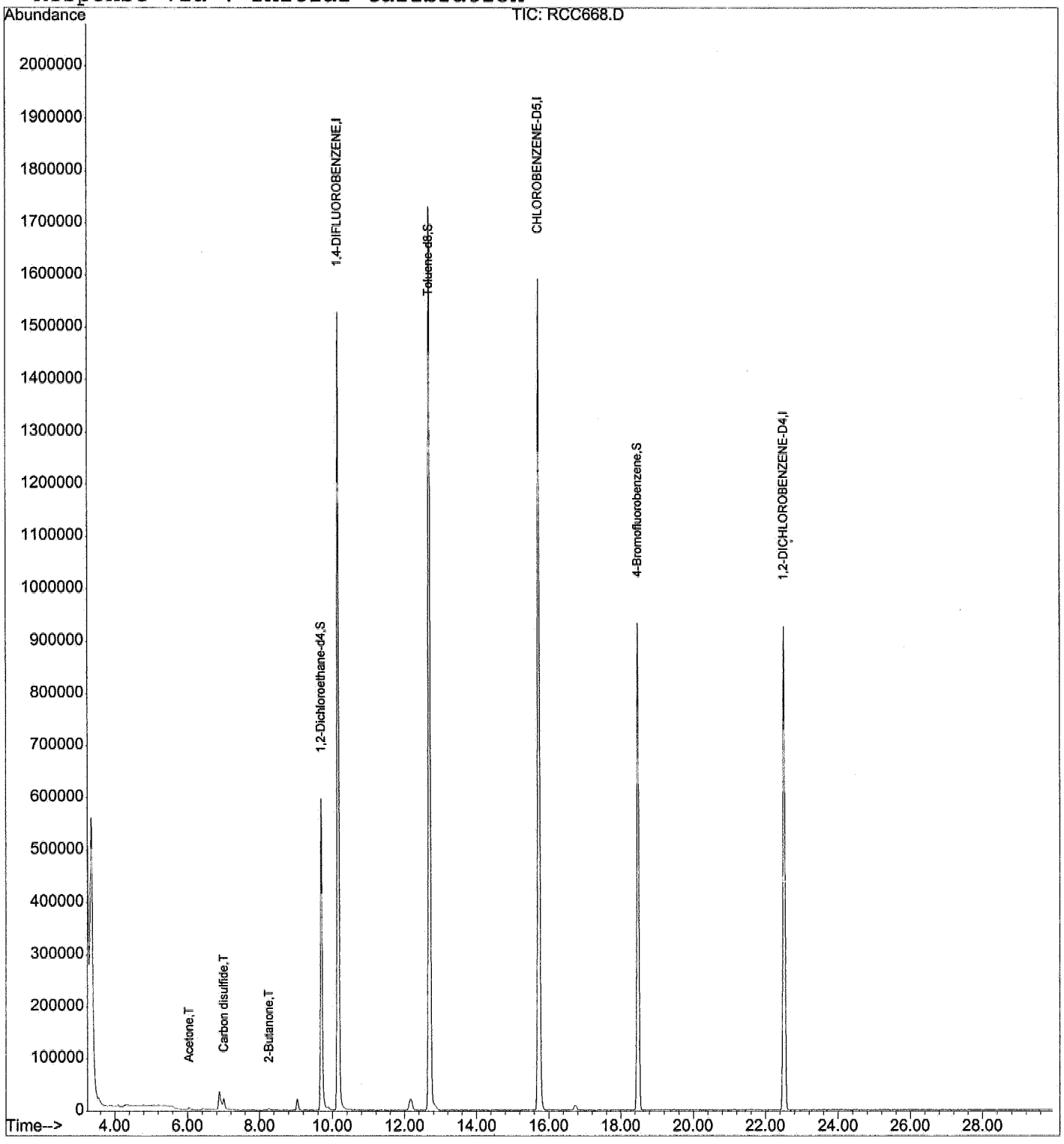
< MDL

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC668.D Vial: 21
Acq On : 30 Mar 2006 2:38 am Operator: CGM
Sample : 06C204-03 5.0mL Inst : TO67
Misc : DF=1.0 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 3 10:20 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration



2014

QC SUMMARIES

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/29/06
Batch No.	: 06C204	Date Extracted:	03/29/06 20:06
Sample ID:	MBLK1W	Date Analyzed:	03/29/06 20:06
Lab Samp ID:	V067C46B	Dilution Factor:	1
Lab File ID:	RCC657	Matrix :	WATER
Ext Btch ID:	V067C46	% Moisture :	NA
Calib. Ref.:	RCC488	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	90	70-140
4-BROMOFLUOROBENZENE	112	70-130
TOLUENE-D8	97	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: SW 5030B/8260B

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VO67C46B	VO67C46L	VO67C46C		
LAB FILE ID:	RCC657	RCC653	RCC654		
DATE EXTRACTED:	03/29/0620:06	03/29/0617:43	03/29/0618:19	DATE COLLECTED:	NA
DATE ANALYZED:	03/29/0620:06	03/29/0617:43	03/29/0618:19	DATE RECEIVED:	03/29/06
PREP. BATCH:	VO67C46	VO67C46	VO67C46		
CALIB. REF:	RCC488	RCC488	RCC488		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1,2-Tetrachloroethane	ND	20	20.7	103	20	20.6	103	0	70-130	30
1,1,1-Trichloroethane	ND	20	20.2	101	20	19.9	100	1	70-130	30
1,1,2,2-Tetrachloroethane	ND	20	19.8	99	20	19.9	99	0	70-130	30
1,1,2-Trichloroethane	ND	20	19.8	99	20	20	100	1	70-130	30
1,1-Dichloroethane	ND	20	20.3	101	20	20.7	103	2	70-130	30
1,1-Dichloroethene	ND	20	19.4	97	20	19.6	98	1	60-130	30
1,1-Dichloropropene	ND	20	19.8	99	20	19.5	98	1	70-140	30
1,2,3-Trichlorobenzene	ND	20	16	80	20	15.8	79	2	60-130	30
1,2,3-Trichloropropane	ND	20	19.9	100	20	20.6	103	4	70-140	30
1,2,4-Trichlorobenzene	ND	20	16.7	84	20	16.6	83	1	60-140	30
1,2,4-Trimethylbenzene	ND	20	20.6	103	20	20.1	100	3	70-130	30
1,2-Dibromo-3-chloropropane	ND	20	17	85	20	17	85	0	60-130	30
1,2-Dichlorobenzene	ND	20	20.2	101	20	20.1	101	0	70-130	30
1,2-Dichloroethane	ND	20	19.7	99	20	20.1	100	2	70-130	30
1,2-Dichloropropane	ND	20	19.6	98	20	20	100	2	70-130	30
1,2-Dibromoethane	ND	20	19.9	100	20	20.2	101	1	70-140	30
1,3,5-Trimethylbenzene	ND	20	21.2	106	20	20.6	103	3	70-130	30
1,3-Dichlorobenzene	ND	20	20.7	103	20	19.9	100	4	70-130	30
1,3-Dichloropropane	ND	20	19.6	98	20	20.1	101	3	70-130	30
1,4-Dichlorobenzene	ND	20	20.2	101	20	19.6	98	3	70-130	30
1-Chlorohexane	ND	20	20.7	103	20	20.4	102	1	70-130	30
2,2-Dichloropropane	ND	20	21.8	109	20	21.5	108	1	50-140	30
2-Chlorotoluene	ND	20	21.3	107	20	20.2	101	5	70-130	30
4-Chlorotoluene	ND	20	21.2	106	20	20.9	104	2	70-130	30
Benzene	ND	20	20.3	101	20	20.2	101	0	70-130	30
Bromobenzene	ND	20	21.5	108	20	20.9	104	3	70-130	30
Bromochloromethane	ND	20	20.1	101	20	20.9	105	4	70-130	30
Bromodichloromethane	ND	20	19.1	96	20	19.3	96	1	70-130	30
Bromoform	ND	20	19.5	97	20	19.8	99	2	60-140	30
Bromomethane	ND	20	17	85	20	16.1	80	5	50-140	30
Carbon Tetrachloride	ND	20	20.4	102	20	19.9	100	2	70-130	30
Chlorobenzene	ND	20	20.4	102	20	20.5	102	0	70-130	30
Chloroethane	ND	20	22.3	112	20	21.2	106	5	70-140	30
Chloroform	ND	20	21.1	106	20	21.3	106	1	70-130	30
Chloromethane	ND	20	22.5	112	20	21.3	107	5	60-130	30
cis-1,2-Dichloroethene	ND	20	20.6	103	20	20.8	104	1	70-130	30
cis-1,3-Dichloropropene	ND	20	19.7	98	20	19.9	100	1	70-130	30
Dibromochloromethane	ND	20	19.8	99	20	20.2	101	2	70-130	30
Dibromomethane	ND	20	20.2	101	20	20.5	103	2	70-140	30
Dichlorodifluoromethane	ND	20	19.2	96	20	18.4	92	4	50-140	30
Ethylbenzene	ND	20	21	105	20	20.7	103	1	70-130	30
Hexachlorobutadiene	ND	20	18.4	92	20	17.9	90	3	60-140	30
Isopropyl Benzene	ND	20	23.3	116	20	22.5	113	3	70-150	30
Xylenes	ND	60	62.6	104	60	62.1	104	1	70-130	30
Methylene Chloride	ND	20	20.3	101	20	20	100	1	70-130	30
n-Butylbenzene	ND	20	17.3	86	20	17	85	2	60-140	30
n-Propylbenzene	ND	20	21.2	106	20	20.3	102	4	70-130	30
Naphthalene	ND	20	14.5	72	20	14.4	72	0	50-140	30
p-Isopropyltoluene	ND	20	20.8	104	20	20.3	101	3	70-140	30
Sec-Butylbenzene	ND	20	18.7	93	20	18.5	92	1	70-130	30
Styrene	ND	20	19.3	96	20	19.3	96	0	70-130	30
Tert-Butylbenzene	ND	20	20.5	102	20	20	100	3	70-130	30
Tetrachloroethylene	ND	20	20.8	104	20	20.5	103	1	70-130	30
Toluene	ND	20	21.1	105	20	20.7	103	2	70-130	30
Trans-1,2-Dichloroethene	ND	20	20.5	103	20	20.6	103	0	70-130	30
Trans-1,3-Dichloropropene	ND	20	21.1	106	20	21.1	105	0	70-140	30
Trichloroethene	ND	20	19.9	100	20	19.7	99	1	70-130	30
Trichlorofluoromethane	ND	20	22.5	113	20	21.5	107	5	70-140	30
Vinyl Chloride	ND	20	20.5	102	20	19.5	97	5	60-150	30
Acetone	ND	80	74.9	94	80	74.9	94	0	50-150	30
2-Butanone	ND	80	72.6	91	80	73.8	92	2	60-140	30
MTBE	ND	20	21.5	108	20	22	110	2	70-140	30
4-Methyl-2-Pentanone	ND	80	75.5	94	80	74.8	94	1	60-140	30
DIPE	ND	20	20.6	103	20	21	105	2	70-140	30
ETBE	ND	20	21.3	106	20	21.9	109	3	60-140	30
TAME	ND	20	20.7	103	20	21.1	105	2	60-140	30
tert-Butanol	ND	100	98.1	98	100	106	106	8	60-150	30
2-Hexanone	ND	80	69.8	87	80	68.5	86	2	70-140	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50	51.1	102	50	51.4	103	70-140
4-Bromofluorobenzene	50	53.7	107	50	51.5	103	70-130
Toluene-d8	50	49.8	100	50	48.9	98	70-130

QC DATA

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C29\RCC657.D ✓ Vial: 10
Acq On : 29 Mar 2006 8:06 pm Operator: CGM
Sample : VO67C46B 5.0mL Inst : TO67
Misc : DF=1.0 MB Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 3 10:05 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2595153	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.72	117	2261286	50.00	ug/l	0.01
66) 1,2-DICHLOROBENZENE-D4	22.52	152	597746	50.00	ug/l	0.01
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	507319	45.05	ug/l ✓	0.01
Spiked Amount 50.000			Recovery = 90.10%			
49) Toluene-d8	12.70	98	2414715	48.40	ug/l ✓	0.03
Spiked Amount 50.000			Recovery = 96.80%			
70) 4-Bromofluorobenzene	18.48	95	714208	56.19	ug/l ✓	0.01
Spiked Amount 50.000			Recovery = 112.38%			

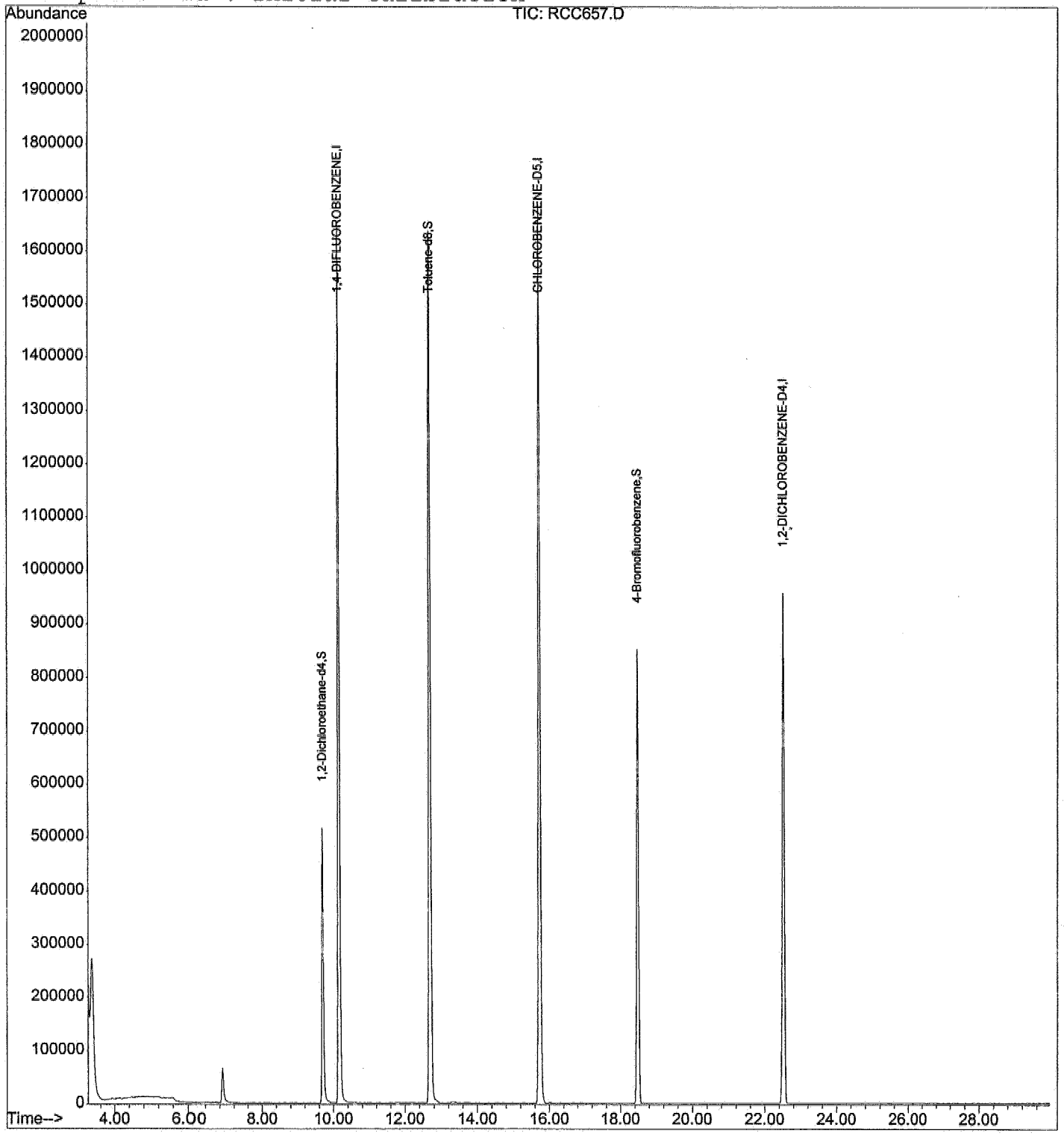
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC657.D Vial: 10
Acq On : 29 Mar 2006 8:06 pm Operator: CGM
Sample : VO67C46B 5.0mL Inst : TO67
Misc : DF=1.0 MB Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 3 10:05 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration



2020

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\06C29\RCC653.D Vial: 6
Acq On : 29 Mar 2006 5:43 pm Operator: CGM
Sample : VO67C46L 5.0mL Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 18:13 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2694068	50.00 ug/l	0.02
36) CHLOROBENZENE-D5	15.73	117	2414819	50.00 ug/l	0.02
66) 1,2-DICHLOROBENZENE-D4	22.52	152	804262	50.00 ug/l	0.02
System Monitoring Compounds					
35) 1,2-Dichloroethane-d4	9.69	65	597279	51.09 ug/l	0.02
Spiked Amount 50.000			Recovery	= 102.18%	
49) Toluene-d8	12.69	98	2654165	49.82 ug/l	0.02
Spiked Amount 50.000			Recovery	= 99.64%	
70) 4-Bromofluorobenzene	18.48	95	918772	53.72 ug/l	0.02
Spiked Amount 50.000			Recovery	= 107.44%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.54	85	255548	19.20 ug/l	99
3) Chloromethane	4.03	50	250993	22.45 ug/l	99
4) Vinyl chloride	4.18	62	195704	20.45 ug/l	99
5) Bromomethane	4.91	94	177762	16.96 ug/l	97
6) Chloroethane	5.02	64	138732	22.33 ug/l	98
7) Trichlorofluoromethane	5.39	101	303699	22.55 ug/l	100
9) Acrolein	5.95	56	103561	63.73 ug/l	97
10) 1,1,2-Trichloro-1,2,2-trif	5.97	151	200638	19.96 ug/l	98
11) Acetone	6.03	43	227701	74.88 ug/l	99
12) 1,1-Dichloroethene	6.24	61	392632	19.44 ug/l	98
13) tert-Butyl alcohol	6.30	59	100824	98.10 ug/l	98
16) Iodomethane	6.71	142	322529	23.25 ug/l	97
17) Methylene chloride	6.88	49	483739	20.28 ug/l	98
18) Carbon disulfide	7.01	76	1147695	22.51 ug/l	100
19) Acrylonitrile	7.00	53	304560	75.08 ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	573880	21.53 ug/l	99
21) trans-1,2-Dichloroethene	7.25	61	423279	20.51 ug/l	98
22) Isopropyl ether (DIPE)	7.55	45	964560	20.62 ug/l	99
23) 1,1-Dichloroethane	7.79	63	533717	20.25 ug/l	99
24) Vinyl acetate	7.70	43	507392	20.10 ug/l	100
25) tert-Butyl ethyl ether (ET	8.07	59	731506	21.28 ug/l	98
26) 2-Butanone	8.25	43	442764	72.64 ug/l	99
27) 2,2-Dichloropropane	8.50	77	355572	21.79 ug/l	98
28) cis-1,2-Dichloroethene	8.56	61	487540	20.65 ug/l	98
30) Chloroform	8.77	83	541296	21.11 ug/l	99
31) Bromochloromethane	9.01	49	287321	20.12 ug/l	93
32) 1,1,1-Trichloroethane	9.31	97	369672	20.16 ug/l	98
34) tert-Amyl methyl ether (TA	9.56	73	748193	20.69 ug/l	98
37) 1,1-Dichloropropene	9.50	77	136108	19.76 ug/l	99

(#) = qualifier out of range (m) = manual integration

2021

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\06C29\RCC653.D Vial: 6
Acq On : 29 Mar 2006 5:43 pm Operator: CGM
Sample : VO67C46L 5.0mL Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 18:13 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Carbon tetrachloride	9.68	119	329602	20.43	ug/l	100
39)	1,2-Dichloroethane	9.83	62	297396	19.72	ug/l	99
40)	Benzene	9.89	78	1339894	20.28	ug/l	99
41)	Trichloroethene	10.74	130	362502	19.91	ug/l	98
43)	1,2-Dichloropropane	10.99	63	350254	19.62	ug/l	99
44)	Bromodichloromethane	11.38	83	371973	19.14	ug/l	99
45)	Dibromomethane	11.51	93	217950	20.20	ug/l	97
46)	2-Chloroethyl vinyl ether	11.70	63	35294	13.16	ug/l	96
47)	4-Methyl-2-pentanone	11.75	43	1040246	75.53	ug/l	99
48)	cis-1,3-Dichloropropene	12.21	75	448010	19.67	ug/l	99
50)	Toluene	12.84	91	1340056	21.07	ug/l	100
51)	Ethyl methacrylate	12.90	69	300438	19.16	ug/l	99
52)	trans-1,3-Dichloropropene	13.06	75	346961	21.14	ug/l	98
53)	1,1,2-Trichloroethane	13.40	97	264904	19.85	ug/l	99
54)	2-Hexanone	13.28	43	636812	69.77	ug/l	99
55)	1,3-Dichloropropane	13.88	76	442214	19.56	ug/l	99
56)	Tetrachloroethene	14.12	164	261986	20.82	ug/l	100
57)	Dibromochloromethane	14.53	129	295638	19.80	ug/l	99
58)	1,2-Dibromoethane	14.95	107	294197	19.94	ug/l	99
59)	1-Chlorohexane	15.07	91	504651	20.65	ug/l	98
60)	Chlorobenzene	15.81	112	894017	20.38	ug/l	98
61)	1,1,1,2-Tetrachloroethane	15.86	131	283036	20.65	ug/l	99
62)	Ethylbenzene	15.86	91	1439467	20.97	ug/l	100
63)	m-Xylene & p-Xylene	16.01	91	2155542	41.86	ug/l	99
64)	o-Xylene	17.04	91	1096853	20.72	ug/l	100
65)	Styrene	17.10	104	824526	19.29	ug/l	99
67)	Bromoform	18.00	173	159075	19.48	ug/l	99
68)	Isopropylbenzene	17.83	105	1333384	23.28	ug/l	100
69)	1,1,2,2-Tetrachloroethane	18.23	83	379517	19.79	ug/l	99
71)	1,2,3-Trichloropropane	18.60	61	63640	19.92	ug/l	98
72)	trans-1,4-Dichloro-2-buten	18.70	53	37272	22.82	ug/l	95
73)	n-Propylbenzene	18.79	91	1612228	21.23	ug/l	100
74)	Bromobenzene	19.03	156	320044	21.50	ug/l	98
75)	2-Chlorotoluene	19.32	91	1015349	21.32	ug/l	100
76)	1,3,5-Trimethylbenzene	19.18	105	987895	21.23	ug/l	100
77)	4-Chlorotoluene	19.42	91	868728	21.24	ug/l	100
78)	tert-Butylbenzene	20.09	119	840372	20.50	ug/l	98
79)	1,2,4-Trimethylbenzene	20.19	105	924180	20.65	ug/l	100
80)	sec-Butylbenzene	20.64	105	1208822	18.69	ug/l	99
81)	p-Isopropyltoluene	20.97	119	883051	20.82	ug/l	100
82)	1,3-Dichlorobenzene	21.33	146	568060	20.69	ug/l	100

(#) = qualifier out of range (m) = manual integration

2022

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\06C29\RCC653.D Vial: 6
Acq On : 29 Mar 2006 5:43 pm Operator: CGM
Sample : VO67C46L 5.0mL Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 18:13 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

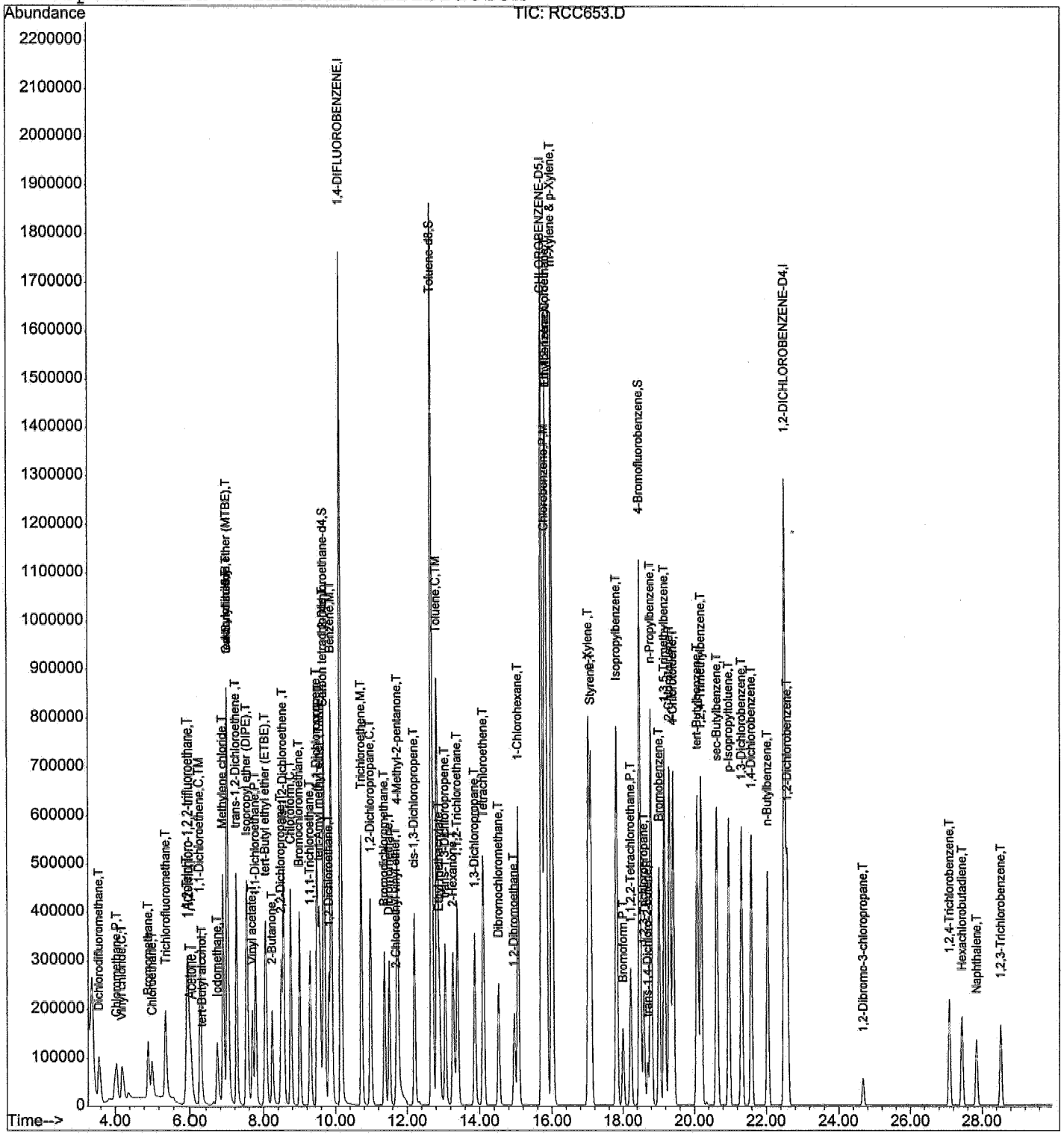
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,4-Dichlorobenzene	21.59	146	544280	20.16	ug/l	100
84)	n-Butylbenzene	22.04	91	674718	17.26	ug/l	99
85)	1,2-Dichlorobenzene	22.59	146	500242	20.20	ug/l	99
86)	1,2-Dibromo-3-chloropropan	24.68	157	37414	16.99	ug/l	98
87)	1,2,4-Trichlorobenzene	27.09	180	151406	16.71	ug/l	99
88)	Hexachlorobutadiene	27.45	225	81983	18.39	ug/l	99
89)	Naphthalene	27.85	128	251326	14.45	ug/l	99
90)	1,2,3-Trichlorobenzene	28.52	180	116673	16.02	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC653.D Vial: 6
Acq On : 29 Mar 2006 5:43 pm Operator: CGM
Sample : VO67C46L 5.0mL Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 18:13 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration



2024

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\data\06C29\RCC654.D Vial: 7
Acq On : 29 Mar 2006 6:19 pm Operator: CGM
Sample : VO67C46C 5.0mL Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 18:49 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2801143	50.00 ug/l	0.01
36) CHLOROBENZENE-D5	15.72	117	2547043	50.00 ug/l	0.01
66) 1,2-DICHLOROBENZENE-D4	22.52	152	866939	50.00 ug/l	0.01
System Monitoring Compounds					
35) 1,2-Dichloroethane-d4	9.69	65	625331	51.45 ug/l	0.01
Spiked Amount 50.000			Recovery	= 102.90%	
49) Toluene-d8	12.69	98	2749822	48.93 ug/l	0.01
Spiked Amount 50.000			Recovery	= 97.86%	
70) 4-Bromofluorobenzene	18.48	95	949623	51.51 ug/l	0.01
Spiked Amount 50.000			Recovery	= 103.02%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.54	85	254296	18.38 ug/l	99
3) Chloromethane	4.03	50	247630	21.31 ug/l	100
4) Vinyl chloride	4.18	62	194969	19.48 ug/l	99
5) Bromomethane	4.91	94	177087	16.09 ug/l	99
6) Chloroethane	5.01	64	137131	21.22 ug/l	100
7) Trichlorofluoromethane	5.39	101	300433	21.45 ug/l	99
9) Acrolein	5.95	56	107955	63.90 ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	5.97	151	211606	20.25 ug/l	100
11) Acetone	6.03	43	236893	74.92 ug/l	99
12) 1,1-Dichloroethene	6.25	61	411677	19.61 ug/l	97
13) tert-Butyl alcohol	6.28	59	113380	106.11 ug/l	99
16) Iodomethane	6.71	142	327466	22.85 ug/l	98
17) Methylene chloride	6.88	49	497789	20.03 ug/l	97
18) Carbon disulfide	7.01	76	1174791	22.16 ug/l	100
19) Acrylonitrile	7.00	53	313224	74.27 ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	609484	21.99 ug/l	100
21) trans-1,2-Dichloroethene	7.25	61	441233	20.56 ug/l	98
22) Isopropyl ether (DIPE)	7.55	45	1021636	21.00 ug/l	98
23) 1,1-Dichloroethane	7.78	63	567162	20.70 ug/l	100
24) Vinyl acetate	7.70	43	540297	20.59 ug/l	99
25) tert-Butyl ethyl ether (ET	8.07	59	782498	21.90 ug/l	98
26) 2-Butanone	8.25	43	467813	73.81 ug/l	100
27) 2,2-Dichloropropane	8.50	77	365543	21.55 ug/l	98
28) cis-1,2-Dichloroethene	8.57	61	510790	20.81 ug/l	98
30) Chloroform	8.77	83	566706	21.26 ug/l	99
31) Bromochloromethane	9.01	49	310602	20.92 ug/l	94
32) 1,1,1-Trichloroethane	9.30	97	380133	19.93 ug/l	97
34) tert-Amyl methyl ether (TA	9.56	73	793143	21.09 ug/l	99
37) 1,1-Dichloropropene	9.50	77	141838	19.52 ug/l	99

(#) = qualifier out of range (m) = manual integration

2025

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\data\06C29\RCC654.D Vial: 7
Acq On : 29 Mar 2006 6:19 pm Operator: CGM
Sample : VO67C46C 5.0mL Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 18:49 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Carbon tetrachloride	9.68	119	339149	19.93	ug/l	99
39)	1,2-Dichloroethane	9.83	62	319114	20.06	ug/l	99
40)	Benzene	9.89	78	1407803	20.20	ug/l	99
41)	Trichloroethene	10.73	130	378402	19.70	ug/l	98
43)	1,2-Dichloropropane	10.99	63	375713	19.95	ug/l	98
44)	Bromodichloromethane	11.37	83	395269	19.28	ug/l	99
45)	Dibromomethane	11.51	93	233382	20.50	ug/l	97
46)	2-Chloroethyl vinyl ether	11.69	63	33535	11.85	ug/l	94
47)	4-Methyl-2-pentanone	11.75	43	1086795	74.82	ug/l	99
48)	cis-1,3-Dichloropropene	12.21	75	478281	19.91	ug/l	99
50)	Toluene	12.83	91	1386668	20.67	ug/l	100
51)	Ethyl methacrylate	12.89	69	325750	19.69	ug/l	99
52)	trans-1,3-Dichloropropene	13.06	75	365088	21.09	ug/l	98
53)	1,1,2-Trichloroethane	13.40	97	281738	20.01	ug/l	99
54)	2-Hexanone	13.28	43	660081	68.54	ug/l	99
55)	1,3-Dichloropropane	13.88	76	480088	20.13	ug/l	100
56)	Tetrachloroethene	14.12	164	272676	20.54	ug/l	99
57)	Dibromochloromethane	14.53	129	318670	20.23	ug/l	99
58)	1,2-Dibromoethane	14.96	107	313738	20.16	ug/l	99
59)	1-Chlorohexane	15.07	91	525787	20.40	ug/l	99
60)	Chlorobenzene	15.81	112	946843	20.46	ug/l	99
61)	1,1,1,2-Tetrachloroethane	15.86	131	298414	20.64	ug/l	99
62)	Ethylbenzene	15.86	91	1497618	20.68	ug/l	100
63)	m-Xylene & p-Xylene	16.01	91	2255557	41.53	ug/l	99
64)	o-Xylene	17.03	91	1150098	20.60	ug/l	100
65)	Styrene	17.09	104	867941	19.25	ug/l	99
67)	Bromoform	18.00	173	174402	19.81	ug/l	99
68)	Isopropylbenzene	17.82	105	1390359	22.52	ug/l	99
69)	1,1,2,2-Tetrachloroethane	18.23	83	410895	19.87	ug/l	100
71)	1,2,3-Trichloropropane	18.60	61	71069	20.64	ug/l	96
72)	trans-1,4-Dichloro-2-buten	18.70	53	39304	22.32	ug/l	97
73)	n-Propylbenzene	18.81	91	1663404	20.32	ug/l	100
74)	Bromobenzene	19.03	156	334859	20.87	ug/l	98
75)	2-Chlorotoluene	19.31	91	1036102	20.19	ug/l	99
76)	1,3,5-Trimethylbenzene	19.18	105	1032734	20.59	ug/l	100
77)	4-Chlorotoluene	19.42	91	919710	20.86	ug/l	99
78)	tert-Butylbenzene	20.09	119	882555	19.97	ug/l	99
79)	1,2,4-Trimethylbenzene	20.19	105	967464	20.05	ug/l	99
80)	sec-Butylbenzene	20.64	105	1289352	18.50	ug/l	99
81)	p-Isopropyltoluene	20.97	119	928252	20.30	ug/l	100
82)	1,3-Dichlorobenzene	21.32	146	590094	19.94	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\data\06C29\RCC654.D Vial: 7
Acq On : 29 Mar 2006 6:19 pm Operator: CGM
Sample : VO67C46C 5.0mL Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 18:49 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

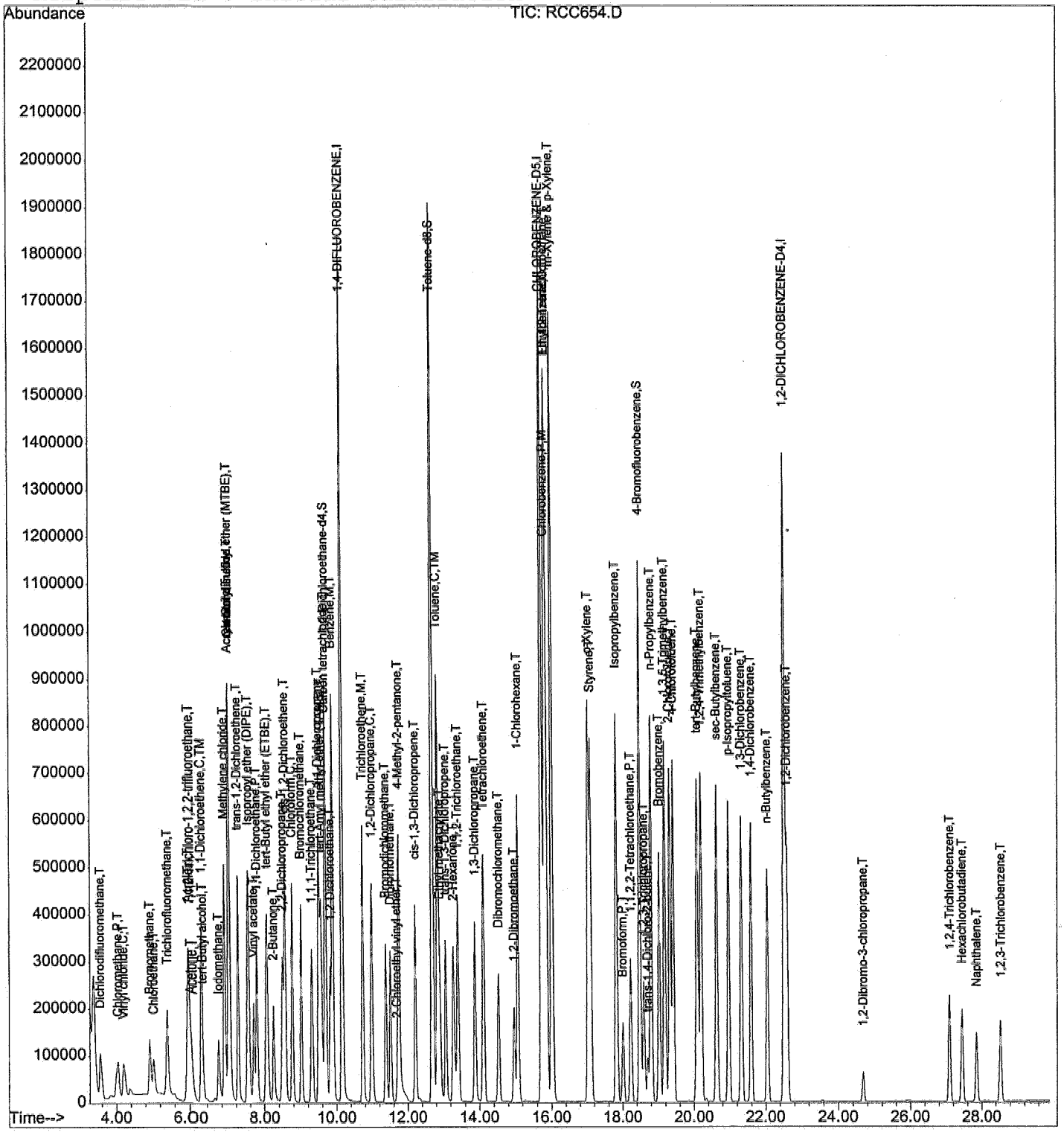
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,4-Dichlorobenzene	21.59	146	571408	19.63	ug/l	100
84)	n-Butylbenzene	22.04	91	711558	16.96	ug/l	100
85)	1,2-Dichlorobenzene	22.59	146	537092	20.12	ug/l	99
86)	1,2-Dibromo-3-chloropropan	24.68	157	40356	17.00	ug/l	99
87)	1,2,4-Trichlorobenzene	27.10	180	162011	16.61	ug/l	100
88)	Hexachlorobutadiene	27.45	225	85919	17.92	ug/l	99
89)	Naphthalene	27.85	128	269638	14.40	ug/l	100
90)	1,2,3-Trichlorobenzene	28.53	180	123337	15.78	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\data\06C29\RCC654.D Vial: 7
Acq On : 29 Mar 2006 6:19 pm Operator: CGM
Sample : VO67C46C 5.0mL Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 18:49 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration



INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RCC483
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: UPGRADIENT INVESTIGATION, TRONOX
SAS No.: SDG No.: 06C204
BFB Injection Date : 03/23/06
BFB Injection Time : 13:23
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.78
75	30.0 - 60.0% of mass 95	40.56
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.56
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	71.60
175	5.0 - 9.0% of mass 174	5.09(7.1)1
176	95.0 - 101.0% of mass 174	68.86(96.2)1
177	5.0 - 9.0% of mass 176	4.41(6.4)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
1	VSTD050	V067C235	RCC488	03/23/06	16:23
2	VSTD080	V067C236	RCC489	03/23/06	16:58
3	VSTD100	V067C237	RCC490	03/23/06	17:34
4	VSTD200	V067C238	RCC491	03/23/06	18:09
5	VSTD300	V067C239	RCC492	03/23/06	18:44
6	VSTD02	V067C2310	RCC495	03/23/06	20:31
7	VSTD05	V067C2311	RCC496	03/23/06	21:07
8	VSTD010	V067C2312	RCC497	03/23/06	21:42
9	VSTD020	V067C2313	RCC498	03/23/06	22:18
10	VSTD050	IV067C231	RCC499	03/23/06	22:53

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :TO67
Beginning DateTime :03/23/06 16:23
Spike Units :PPB
IC File :rcc488

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :03/23/06 18:44
HPChem Method :vo67c23

M	IDX	Parameters	2 20:31 rcc495	5 21:07 rcc496	10 21:42 rcc497	20 22:18 rcc498	50 16:23 rcc488	80 16:58 rcc489	100 17:34 rcc490	200 18:09 rcc491	300 18:44 rcc492	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	0	10.1439
	2	Dichlorodifluoromethane	0.232	0.254	0.248	0.248	0.248	0.256	0.255	0.245	0.238	0.247	3.21	3.5339
	3	Chloromethane	0.192	0.204	0.190	0.203	0.204	0.217	0.220	0.219	0.217	0.207	5.65	4.0221
	4	Vinyl chloride	0.213	0.220	0.207	0.192	0.140	0.118	0.114	------	------	0.172	26.98	4.1703
	5	Bromomethane	------	0.253	0.232	0.217	0.158	0.161	0.170	0.160	0.162	0.189	20.35	4.8980
	6	Chloroethane	0.119	0.117	0.116	0.115	0.113	0.119	0.115	0.114	0.109	0.115	2.66	5.0002
	7	Trichlorofluoromethane	0.236	0.255	0.252	0.255	0.247	0.256	0.257	0.249	0.243	0.250	2.81	5.3775
	8	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
4	9	Acrolein	0.028	0.027	0.031	0.030	0.032	0.031	0.033	0.031	0.029	0.030	6.18	5.9468
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.186	0.188	0.191	0.204	0.187	0.173	0.178	0.186	0.186	0.187	4.66	5.9518
4	11	Acetone	0.065	0.053	0.059	0.056	0.059	0.056	0.055	0.054	0.052	0.056	7.21	6.0180
	12	1,1-Dichloroethene	0.365	0.373	0.384	0.402	0.385	0.365	0.356	0.380	0.362	0.375	3.85	6.2348
5	13	tert-Butyl alcohol	0.014	0.016	0.020	0.022	0.022	0.019	0.019	0.021	0.019	0.019	14.59	6.2861
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	------	0.083	0.098	0.143	0.272	0.312	0.319	0.360	0.349	0.242	47.61	6.7003
	17	Methylene chloride	------	0.630	0.499	0.467	0.427	0.391	0.385	0.387	0.365	0.444	19.85	6.8604
	18	Carbon disulfide	0.942	0.938	0.944	1.009	0.995	0.902	0.914	0.958	0.912	0.946	3.87	6.9945
4	19	Acrylonitrile	0.079	0.071	0.081	0.075	0.083	0.075	0.075	0.072	0.067	0.075	6.76	6.9812
	20	tert-Butyl methyl ether (MTBE)	0.476	0.451	0.506	0.550	0.516	0.475	0.489	0.515	0.473	0.495	6.04	7.0044
	21	trans-1,2-Dichloroethene	0.354	0.372	0.379	0.415	0.408	0.379	0.374	0.395	0.372	0.383	5.06	7.2460
	22	Isopropyl ether (DIPE)	0.806	0.817	0.856	0.948	0.909	0.862	0.863	0.908	0.846	0.868	5.30	7.5340
	23	1,1-Dichloroethane	0.484	0.478	0.484	0.530	0.515	0.486	0.481	0.487	0.458	0.489	4.30	7.7756
	24	Vinyl acetate	0.431	0.408	0.400	0.456	0.516	0.498	0.504	0.529	0.475	0.468	10.16	7.6829
	25	tert-Butyl ethyl ether (ETBE)	0.589	0.586	0.639	0.693	0.661	0.632	0.642	0.666	0.633	0.638	5.40	8.0536
4	26	2-Butanone	0.115	0.100	0.120	0.109	0.122	0.114	0.114	0.115	0.108	0.113	5.77	8.2456
	27	2,2-Dichloropropane	0.286	0.284	0.295	0.316	0.320	0.299	0.300	0.317	0.309	0.303	4.41	8.4906
	28	cis-1,2-Dichloroethene	0.423	0.399	0.441	0.488	0.470	0.395	0.442	0.456	0.430	0.438	6.99	8.5584
4	29	tert-Butyl formate (TBF)	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	30	Chloroform	0.470	0.452	0.464	0.515	0.494	0.465	0.461	0.490	0.471	0.476	4.16	8.7537
	31	Bromochloromethane	0.247	0.254	0.266	0.290	0.279	0.263	0.264	0.268	0.255	0.265	4.94	8.9970
	32	1,1,1-Trichloroethane	0.330	0.338	0.331	0.357	0.351	0.331	0.327	0.350	0.348	0.340	3.33	9.2916
	33	Cyclohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	34	tert-Amyl methyl ether (TAME)	0.612	0.615	0.663	0.741	0.697	0.667	0.665	0.713	0.668	0.671	6.25	9.5514
	35	1,2-Dichloroethane-d4	0.230	0.222	0.218	0.226	0.186	0.226	0.227	0.217	0.200	0.217	6.74	9.6838
	36	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	0	15.7096
	37	1,1-Dichloropropene	0.145	0.144	0.139	0.154	0.147	0.139	0.137	0.140	0.138	0.143	3.91	9.4869
	38	Carbon tetrachloride	0.329	0.331	0.317	0.362	0.341	0.323	0.324	0.341	0.340	0.334	4.04	9.6606
	39	1,2-Dichloroethane	0.314	0.303	0.298	0.336	0.324	0.311	0.304	0.316	0.303	0.312	3.84	9.8096
	40	Benzene	1.455	1.413	1.342	1.468	1.387	1.314	1.277	1.349	1.307	1.368	4.89	9.8791
	41	Trichloroethene	0.385	0.383	0.367	0.404	0.377	0.364	0.360	0.378	0.375	0.377	3.50	10.7182
	42	Methylcyclohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	43	1,2-Dichloropropane	0.372	0.356	0.356	0.400	0.383	0.370	0.364	0.370	0.355	0.370	4.01	10.9714
	44	Bromodichloromethane	0.382	0.377	0.376	0.433	0.412	0.404	0.400	0.421	0.417	0.402	5.09	11.3586
	45	Dibromomethane	0.223	0.205	0.215	0.245	0.234	0.223	0.219	0.228	0.217	0.223	5.18	11.4927
	46	2-Chloroethyl vinyl ether	------	0.041	0.050	0.062	0.059	0.061	0.060	------	------	0.056	14.53	11.6833
4	47	4-Methyl-2-pentanone	0.317	0.236	0.273	0.284	0.304	0.295	0.292	0.288	0.276	0.285	8.01	11.7293
	48	cis-1,3-Dichloropropene	0.430	0.418	0.435	0.506	0.491	0.484	0.478	0.506	0.496	0.472	7.27	12.1928
	49	Toluene-d8	1.385	1.080	1.085	1.110	0.884	1.132	1.134	1.075	1.043	1.103	11.76	12.6777
	50	Toluene	1.388	1.323	1.274	1.403	1.337	1.286	1.267	1.312	1.261	1.317	3.91	12.8250
	51	Ethyl methacrylate	------	0.242	0.282	0.334	0.346	0.343	0.345	0.362	0.342	0.325	12.59	12.8835
	52	trans-1,3-Dichloropropene	0.292	0.286	0.312	0.373	0.356	0.354	0.354	0.374	0.357	0.340	9.98	13.0484
	53	1,1,2-Trichloroethane	0.275	0.258	0.271	0.304	0.285	0.273	0.271	0.281	0.269	0.276	4.60	13.3893
4	54	2-Hexanone	0.284	0.157	0.167	0.168	0.190	0.190	0.192	0.191	0.182	0.191	19.39	13.2602
	55	1,3-Dichloropropane	0.466	0.444	0.456	0.511	0.481	0.456	0.465	0.479	0.455	0.468	4.22	13.8610
	56	Tetrachloroethene	0.268	0.261	0.253	0.279	0.262	0.249	0.245	0.262	0.264	0.261	3.95	14.0943
	57	Dibromochloromethane	0.264	0.274	0.286	0.335	0.317	0.317	0.316	0.340	0.333	0.309	9.02	14.5163
	58	1,2-Dibromoethane	0.281	0.280	0.290	0.335	0.322	0.310	0.307	0.317	0.307	0.306	6.05	14.9450
	59	1-Chlorohexane	0.448	0.457	0.458	0.547	0.528	0.522	0.516	0.539	0.538	0.506	7.87	15.0526
	60	Chlorobenzene	0.962	0.896	0.873	0.974	0.918	0.888	0.884	0.909	0.872	0.908	4.10	15.7973
	61	1,1,1,2-Tetrachloroethane	0.276	0.272	0.269	0.312	0.289	0.283	0.279	0.292	0.281	0.284	4.53	15.8420
	62	Ethylbenzene	1.449	1.396	1.358	1.531	1.476	1.424	1.383	1.422	1.351	1.421	4.09	15.8403
2	63	m-Xylene & p-Xylene	1.044	1.035	0.994	1.164	1.092	1.069	1.050	1.081	------	1.066	4.67	15.9962
	64	o-Xylene	1.050	1.015	1.025	1.179	1.138	1.099	1.101	1.148	1.108	1.096	5.13	17.0166
	65	Styrene	0.755	0.768	0.791	0.952	0.934	0.931	0.917	0.976	0.941	0.885	9.85	17.0795
	66	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	0	22.4995
	67	Bromoform	0.489	0.464	0.508	0.554	0.521	0.499	0.491	0.526	0.516	0.508	5.12	17.9864
	68	Isopropylbenzene	3.661	3.693	3.565	3.852	3.604	3.378	3.318	3.496	3.481	3.561	4.63	17.8077
	69	1,1,2,2-Tetrachloroethane	1.298	1.205	1.253	1.303	1.236	1.124	1.100	1.132	1.081	1.192	7.17	18.2098
	70	4-Bromofluorobenzene	------	1.168	1.150	1.154	0.886	1.099	1.068	1.010	0.971	1.063	9.47	18.4630
	71	1,2,3-Trichloropropane	0.199	0.201	0.219	0.225	0.211	0.189	0.183	0.187	0.173	0.199	8.64	18.5822
	72	trans-1,4-Dichloro-2-butene	------	0.068	0.095	0.103	0.108	0.106	0.104	0.115	0.113	0.102	14.57	18.6883
	73	n-Propylbenzene	4.506	4.608	4.611	5.114	4.953	4.748	4.598	4.815	4.539	4.721	4.35	18.7808
	74	Bromobenzene	1.028	0.957	0.934	0.995	0.902	0.868	0.839	0.905	0.900	0.925	6.49	19.0141
	75	2-Chlorotoluene	3.294	3.134	3.039	3.213	3.018	2.792	2.660	2.779	2.713	2.960	7.81	19.3021
	76	1,3,5-Trimethylbenzene	2.777	2.861	2.833	3.147	2.975	2.876	2.761	2.896	2.908	2.893	4.00	19.1631
	77	4-Chlorotoluene	2.732	2.606	2.460	2.692	2.483	2.459	2.434	2.519	2.501	2.543	4.26	19.4014
	78	tert-Butylbenzene	2.424	2.493	2.468	2.778	2.640	2.495	2.446	2.601	2.593	2.549	4.48	20.0717
	79	1,2,4-Trimethylbenzene	2.569	2.612	2.661	3.021	2.916	2.794	2.736	2.881	2.852	2.782	5.41	20.1792
	80	sec-Butylbenzene	3.480	3.588	3.739	4.298	4.283	4.131	4.006	4.333	4.324	4.020	8.38	20.6211
	81	p-Isopropyltoluene	2.027	2.161	2.298	2.814	2.819	2.788	2.766	2.983	3.078	2.637	14.27	20.9504
	82	1,3-Dichlorobenzene	1.849	1.670	1.643	1.820	1.696	1.615	1.618	1.723	1.729	1.707	4.89	21.3079
	83	1,4-Dichlorobenzene	1.835	1.618	1.592	1.761	1.656	1.607	1.588	1.722	1.728	1.679	5.18	21.5744
	84	n-Butylbenzene	------	1.646	1.889	2.408	2.584	2.723	2.692	3.027	3.113	2.510	20.52	22.0265
	85	1,2-Dichlorobenzene	1.694	1.503	1.499	1.629	1.519	1.452	1.435	1.564	1.561	1.540	5.38	22.5740
	86	1,2-Dibromo-3-chloropropane	------	0.091	0.133	0.142	0.145	0.140	0.139	0.154	0.151	0.137	14.47	24.6611
	87	1,2,4-Trichlorobenzene	------	0.405	0.460	0.567	0.583	0.609	0.610	0.711	0.757	0.588	19.80	27.0796
	88	Hexachlorobutadiene	------	0.231	0.236	0.301	0.312	0.312	0.315	0.371	0.411	0.311	19.56	27.4296
	89	Naphthalene	------	0.794	0.870	1.090	1.142	1.271	1.305	1.554	1.595	1.203	24.07	27.8318
	90	1,2,3-Trichlorobenzene	------	0.334	0.364	0.454	0.478	0.496	0.501	0.589	0.619	0.479	20.49	28.5095

Spike Amount = Nominal Amount * M
Ave_%RSD : 8.5 Max_%RSD : 47.6

3/24/2031

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
4	Vinyl chloride	0.00787	0.12162	0.9811*
5	Bromomethane	0.01207	0.15895	0.9989
16	Iodomethane	-0.04368	0.35135	0.9965
17	Methylene chloride	0.02904	0.37110	0.9994
54	2-Hexanone	0.00409	0.18606	0.9990
84	n-Butylbenzene	-0.20469	3.02309	0.9984
87	1,2,4-Trichlorobenzene	-0.05043	0.71420	0.9961
88	Hexachlorobutadiene	-0.02719	0.37935	0.9942*
89	Naphthalene	-0.12727	1.52146	0.9954
90	1,2,3-Trichlorobenzene	-0.04281	0.58642	0.9961

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = xo + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
4	Vinyl chloride	0.00224	0.18894	-0.04118	0.9968
88	Hexachlorobutadiene	-0.00584	0.28524	0.02123	0.9998

ar
3/28/06

Compound List Report TO67

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
Total Cpnds : 90

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	10.14	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	3.53	0.348	A	2	A	B
3	T	Chloromethane	50	4.02	0.396	A	1	A	B
4	T	Vinyl chloride	62	4.17	0.411	Q	1	A	B
5	T	Bromomethane	94	4.90	0.483	L	1	A	B
6	T	Chloroethane	64	5.00	0.493	A	2	A	B
7	T	Trichlorofluoromethane	101	5.37	0.530	A	1	A	B
8	T	sec-Propyl alcohol	45	6.21	0.612	A	1	A	B
9	T	Acrolein	56	5.94	0.586	A	1	A	B
10	T	1,1,2-Trichloro-1,2,2-trifluor	151	5.95	0.587	A	1	A	B
11	T	Acetone	43	6.01	0.593	A	1	A	B
12	T	1,1-Dichloroethene	61	6.24	0.615	A	2	A	B
13	T	tert-Butyl alcohol	59	6.27	0.618	A	1	A	B
14	T	Acetonitrile	41	7.00	0.690	A	2	A	B
15		Methyl acetate	43	6.59	0.650	A	1	A	B
16	T	Iodomethane	142	6.70	0.661	L	2	A	B
17	T	Methylene chloride	49	6.86	0.677	L	2	A	B
18	T	Carbon disulfide	76	7.00	0.690	A	1	A	B
19	T	Acrylonitrile	53	6.98	0.689	A	2	A	B
20	T	tert-Butyl methyl ether (MTBE)	73	7.00	0.690	A	1	A	B
21	T	trans-1,2-Dichloroethene	61	7.24	0.714	A	2	A	B
22	T	Isopropyl ether (DIPE)	45	7.53	0.743	A	1	A	B
23	T	1,1-Dichloroethane	63	7.77	0.766	A	2	A	B
24	T	Vinyl acetate	43	7.68	0.758	A	1	A	B
25	T	tert-Butyl ethyl ether (ETBE)	59	8.05	0.794	A	1	A	B
26	T	2-Butanone	43	8.23	0.812	A	1	A	B
27	T	2,2-Dichloropropane	77	8.49	0.837	A	3	A	B
28	T	cis-1,2-Dichloroethene	61	8.56	0.844	A	2	A	B
29	T	tert-Butyl formate (TBF)	59	9.81	0.968	A	2	A	B
30	T	Chloroform	83	8.75	0.863	A	2	A	B
31	T	Bromochloromethane	49	8.99	0.887	A	2	A	B
32	T	1,1,1-Trichloroethane	97	9.29	0.916	A	2	A	B
33	T	Cyclohexane	56	9.26	0.913	A	2	A	B
34	T	tert-Amyl methyl ether (TAME)	73	9.54	0.941	A	2	A	B
35	S	1,2-Dichloroethane-d4	65	9.68	0.954	A	1	A	B
36	I	CHLOROBENZENE-D5	117	15.71	1.000	A	2	A	B
37	T	1,1-Dichloropropene	77	9.48	0.604	A	2	A	B
38	T	Carbon tetrachloride	119	9.66	0.615	A	1	A	B
39	T	1,2-Dichloroethane	62	9.81	0.625	A	2	A	B
40	T	Benzene	78	9.87	0.628	A	2	A	B
41	T	Trichloroethene	130	10.72	0.682	A	3	A	B
42	T	Methylcyclohexane	83	10.97	0.699	A	2	A	B
43	T	1,2-Dichloropropane	63	10.97	0.699	A	2	A	B
44	T	Bromodichloromethane	83	11.36	0.723	A	2	A	B
45	T	Dibromomethane	93	11.50	0.732	A	2	A	B
46	T	2-Chloroethyl vinyl ether	63	11.67	0.743	A	2	A	B
47	T	4-Methyl-2-pentanone	43	11.72	0.746	A	3	A	B
48	T	cis-1,3-Dichloropropene	75	12.20	0.776	A	3	A	B
49	S	Toluene-d8	98	12.67	0.807	A	1	A	B
50	T	Toluene	91	12.82	0.816	A	1	A	B
51	T	Ethyl methacrylate	69	12.88	0.820	A	2	A	B
52	T	trans-1,3-Dichloropropene	75	13.04	0.830	A	3	A	B

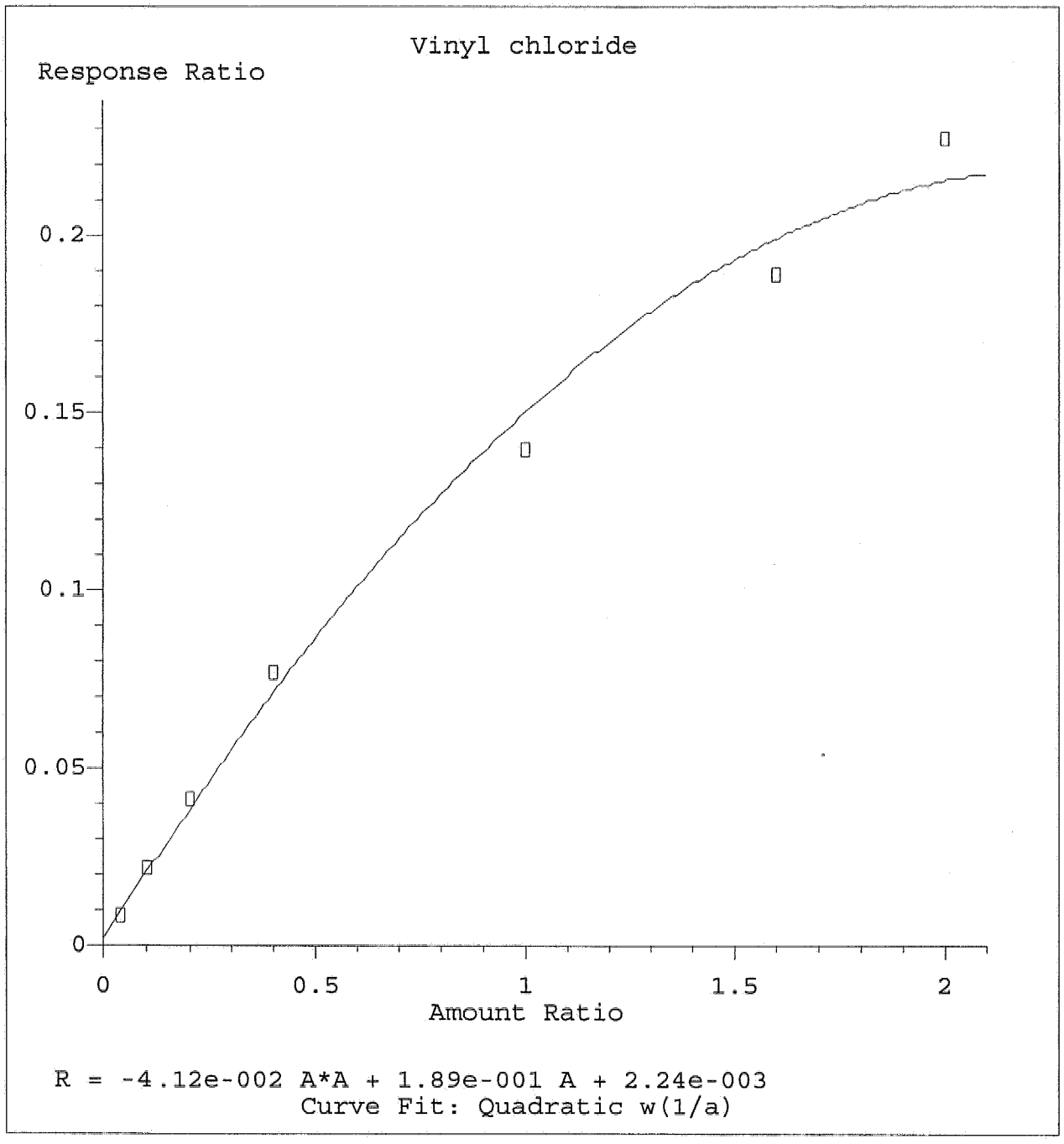
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53	T	1,1,2-Trichloroethane	97	13.39	0.852	A	3	A	B
54	T	2-Hexanone	43	13.25	0.844	L	2	A	B
55	T	1,3-Dichloropropane	76	13.86	0.882	A	2	A	B
56	T	Tetrachloroethene	164	14.09	0.897	A	3	A	B
57	T	Dibromochloromethane	129	14.52	0.924	A	2	A	B
58	T	1,2-Dibromoethane	107	14.94	0.951	A	1	A	B
59	T	1-Chlorohexane	91	15.06	0.958	A	3	A	B
60	P,M	Chlorobenzene	112	15.80	1.006	A	3	A	B
61	T	1,1,1,2-Tetrachloroethane	131	15.84	1.009	A	3	A	B
62	T	Ethylbenzene	91	15.83	1.008	A	1	A	B
63	T	m-Xylene & p-Xylene	91	15.99	1.018	A	1	A	B
64	T	o-Xylene	91	17.01	1.082	A	1	A	B
65	T	Styrene	104	17.08	1.087	A	2	A	B
66	I	1,2-DICHLOROBENZENE-D4	152	22.50	1.000	A	1	A	B
67	T	Bromoform	173	17.99	0.799	A	2	A	B
68	T	Isopropylbenzene	105	17.81	0.791	A	3	A	B
69	T	1,1,2,2-Tetrachloroethane	83	18.21	0.809	A	2	A	B
70	S	4-Bromofluorobenzene	95	18.47	0.821	A	2	A	B
71	T	1,2,3-Trichloropropane	61	18.59	0.826	A	2	A	B
72	T	trans-1,4-Dichloro-2-butene	53	18.69	0.831	A	1	A	B
73	T	n-Propylbenzene	91	18.78	0.835	A	2	A	B
74	T	Bromobenzene	156	19.02	0.845	A	2	A	B
75	T	2-Chlorotoluene	91	19.30	0.858	A	1	A	B
76	T	1,3,5-Trimethylbenzene	105	19.17	0.852	A	2	A	B
77	T	4-Chlorotoluene	91	19.40	0.862	A	1	A	B
78	T	tert-Butylbenzene	119	20.07	0.892	A	2	A	B
79	T	1,2,4-Trimethylbenzene	105	20.18	0.897	A	1	A	B
80	T	sec-Butylbenzene	105	20.61	0.916	A	1	A	B
81	T	p-Isopropyltoluene	119	20.95	0.931	A	2	A	B
82	T	1,3-Dichlorobenzene	146	21.31	0.947	A	2	A	B
83	T	1,4-Dichlorobenzene	146	21.58	0.959	A	2	A	B
84	T	n-Butylbenzene	91	22.02	0.979	L	2	A	B
85	T	1,2-Dichlorobenzene	146	22.58	1.003	A	2	A	B
86	T	1,2-Dibromo-3-chloropropane	157	24.66	1.096.	A	2	A	B
87	T	1,2,4-Trichlorobenzene	180	27.07	1.203	L	2	A	B
88	T	Hexachlorobutadiene	225	27.43	1.219	Q	2	A	B
89	T	Naphthalene	128	27.83	1.237	L	1	A	B
90	T	1,2,3-Trichlorobenzene	180	28.50	1.267	L	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

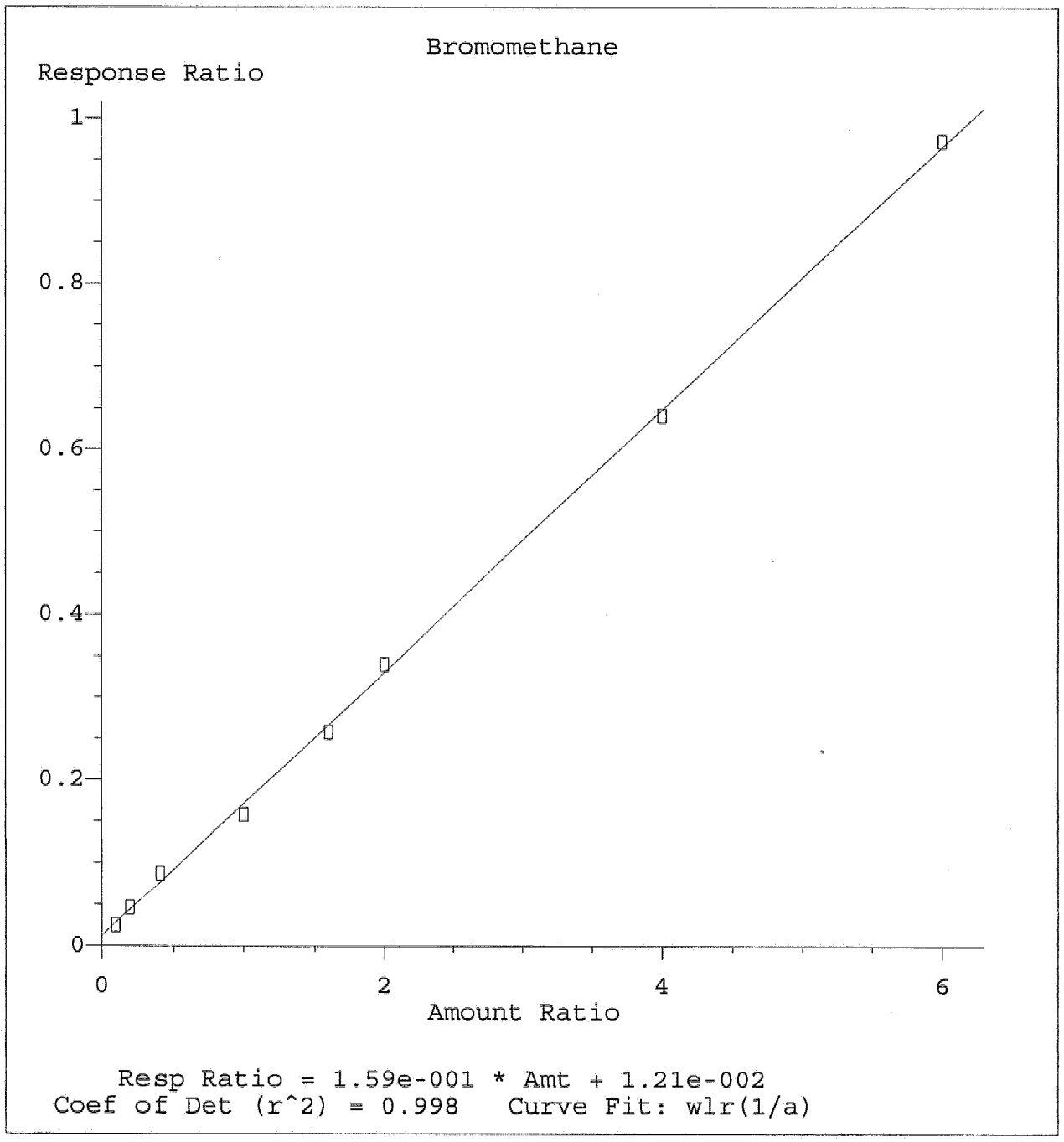
VO67C23.M Tue Mar 28 09:45:23 2006

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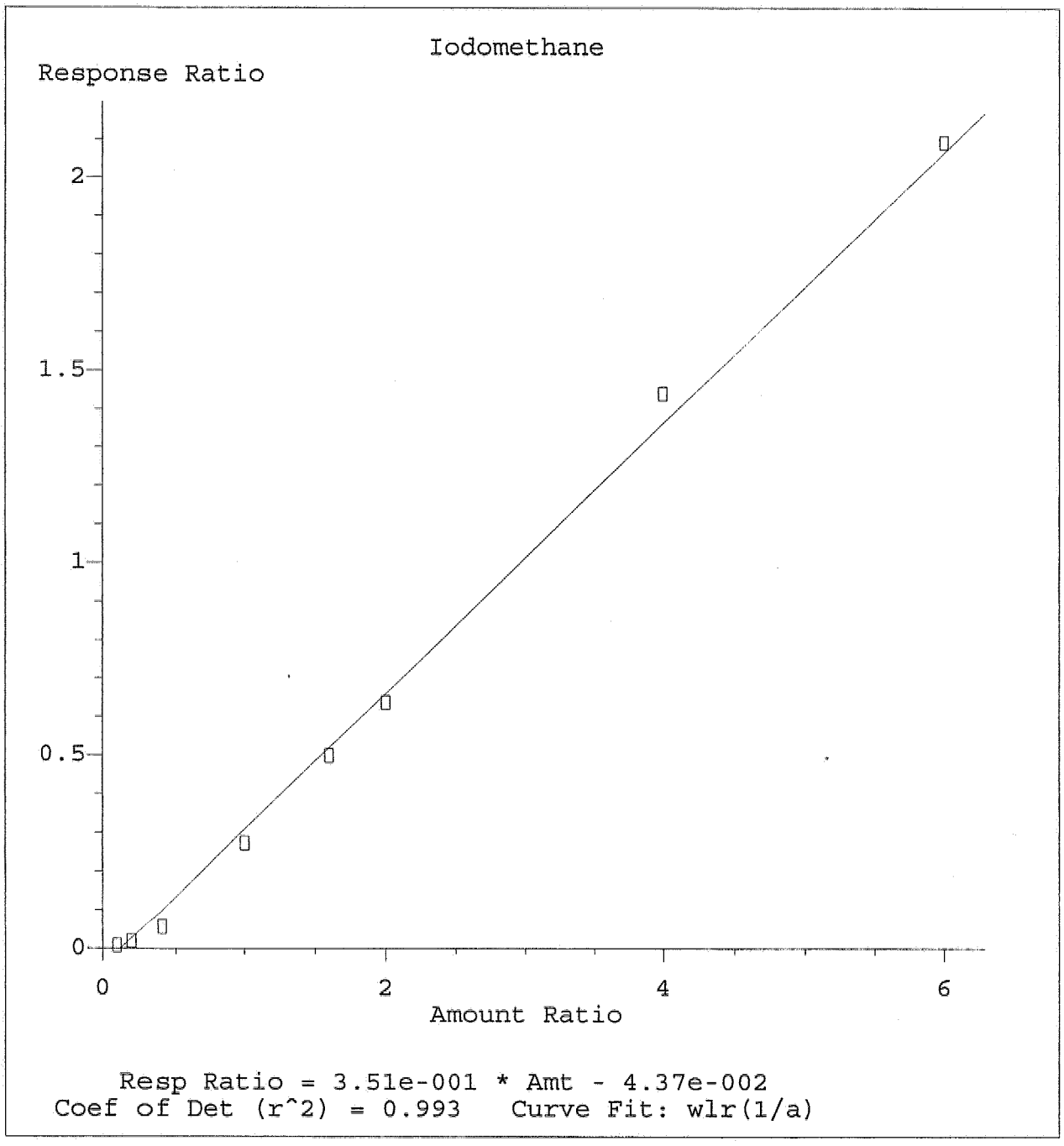
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Calibration Table Last Updated: Tue Mar 28 09:22:46 2006

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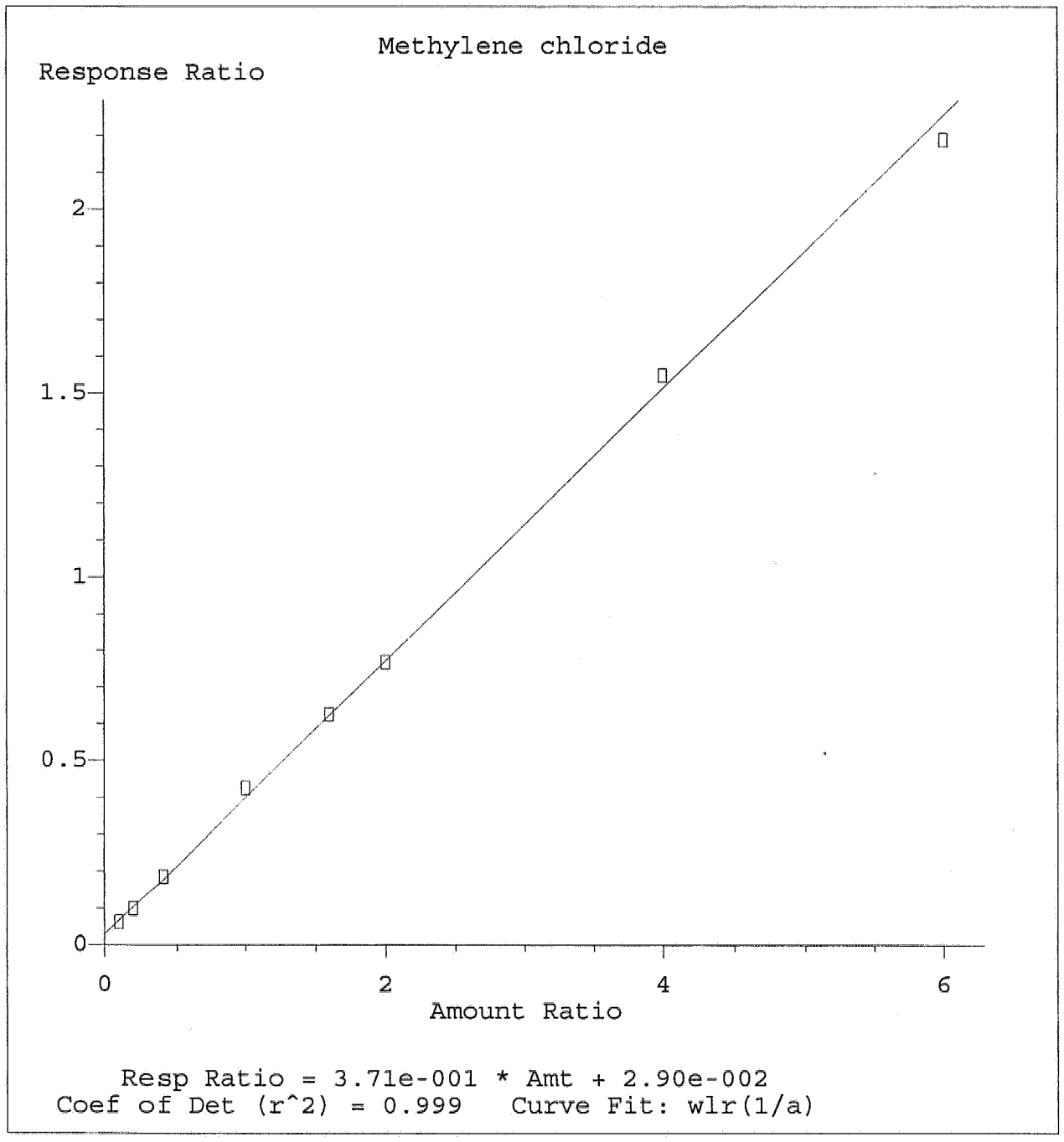
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Calibration Table Last Updated: Tue Mar 28 09:22:46 2006

ea
3/28/06



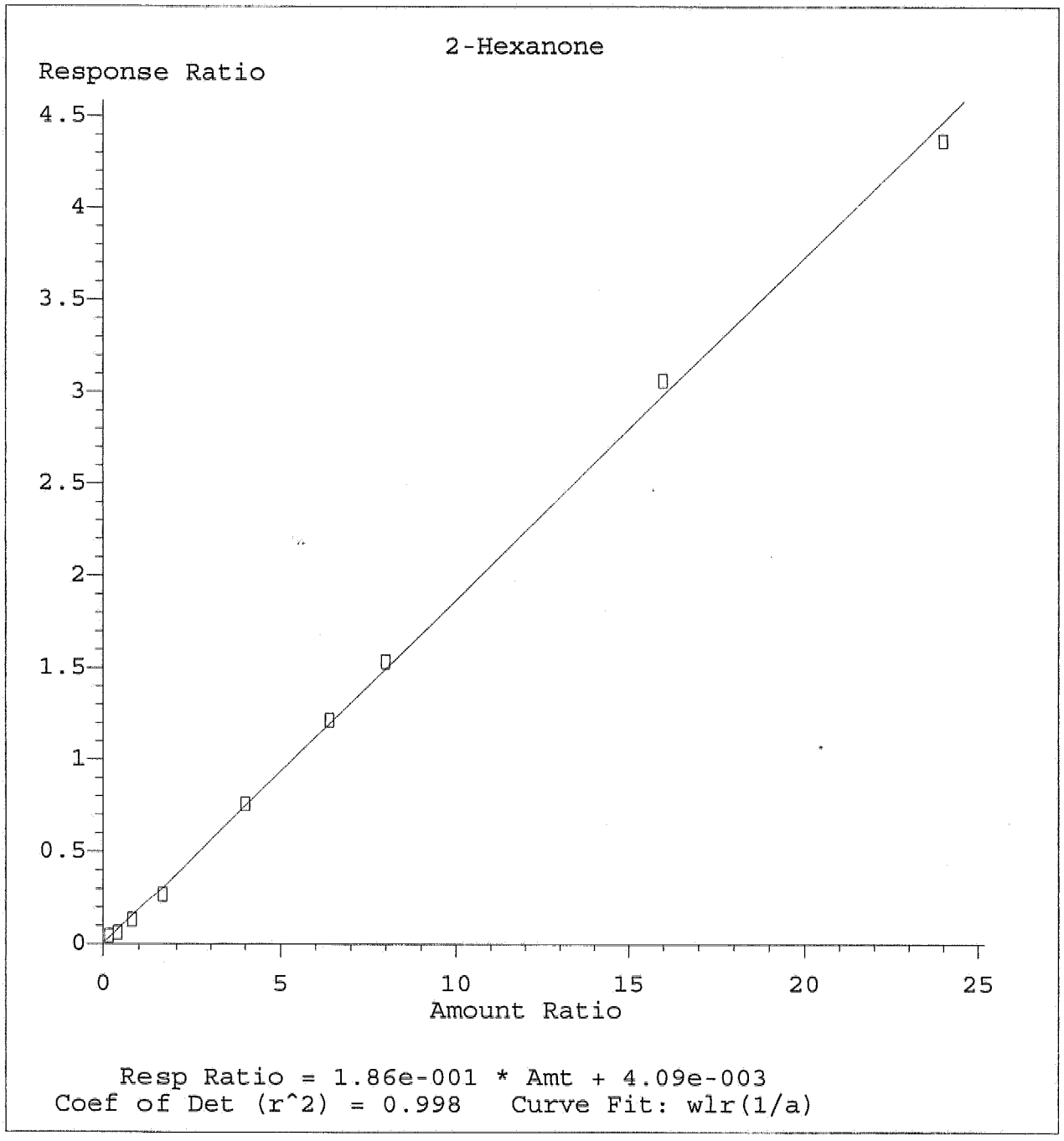
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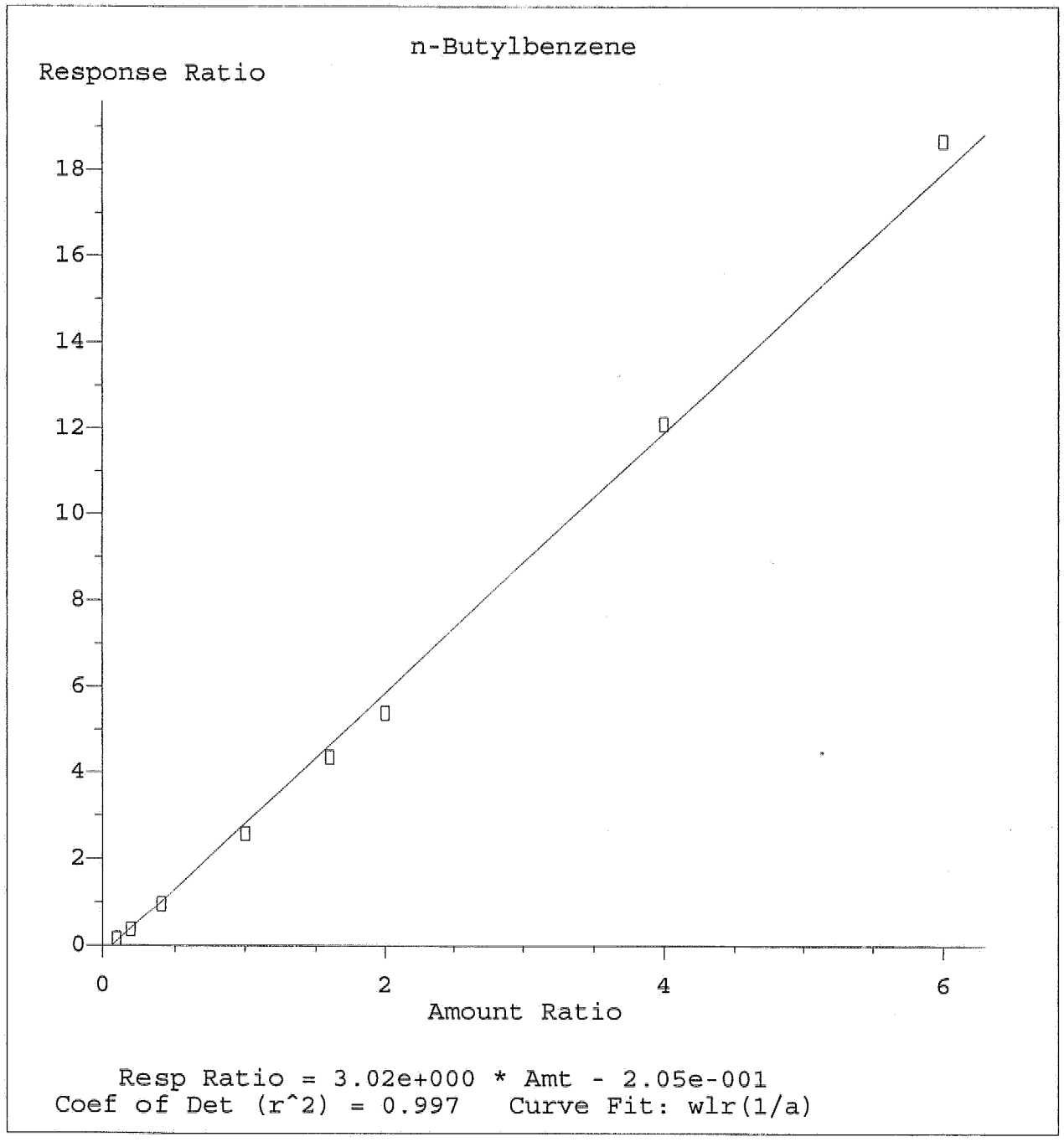
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Calibration Table Last Updated: Tue Mar 28 09:22:46 2006

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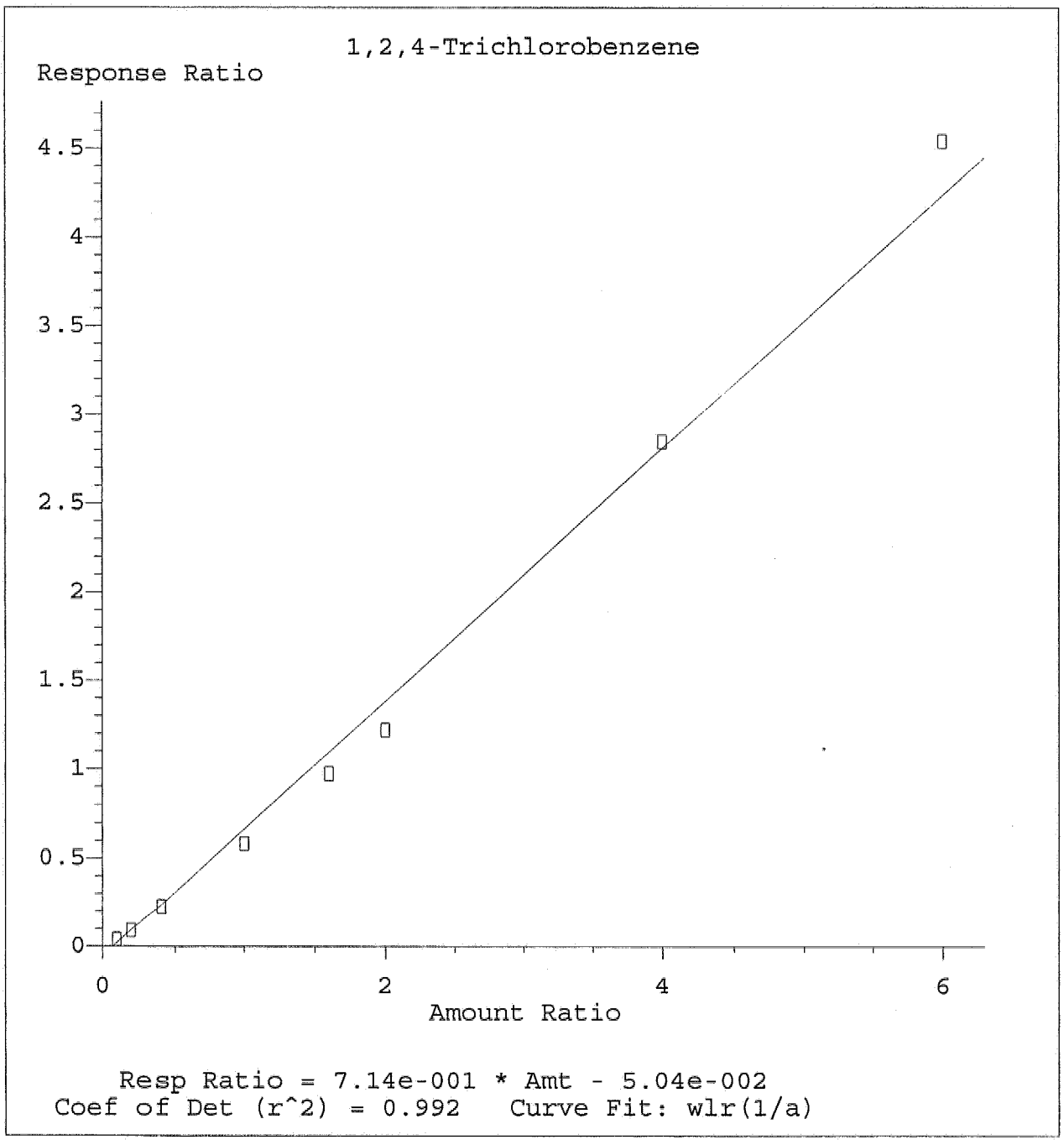
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Calibration Table Last Updated: Tue Mar 28 09:22:46 2006

ca
3/28/06



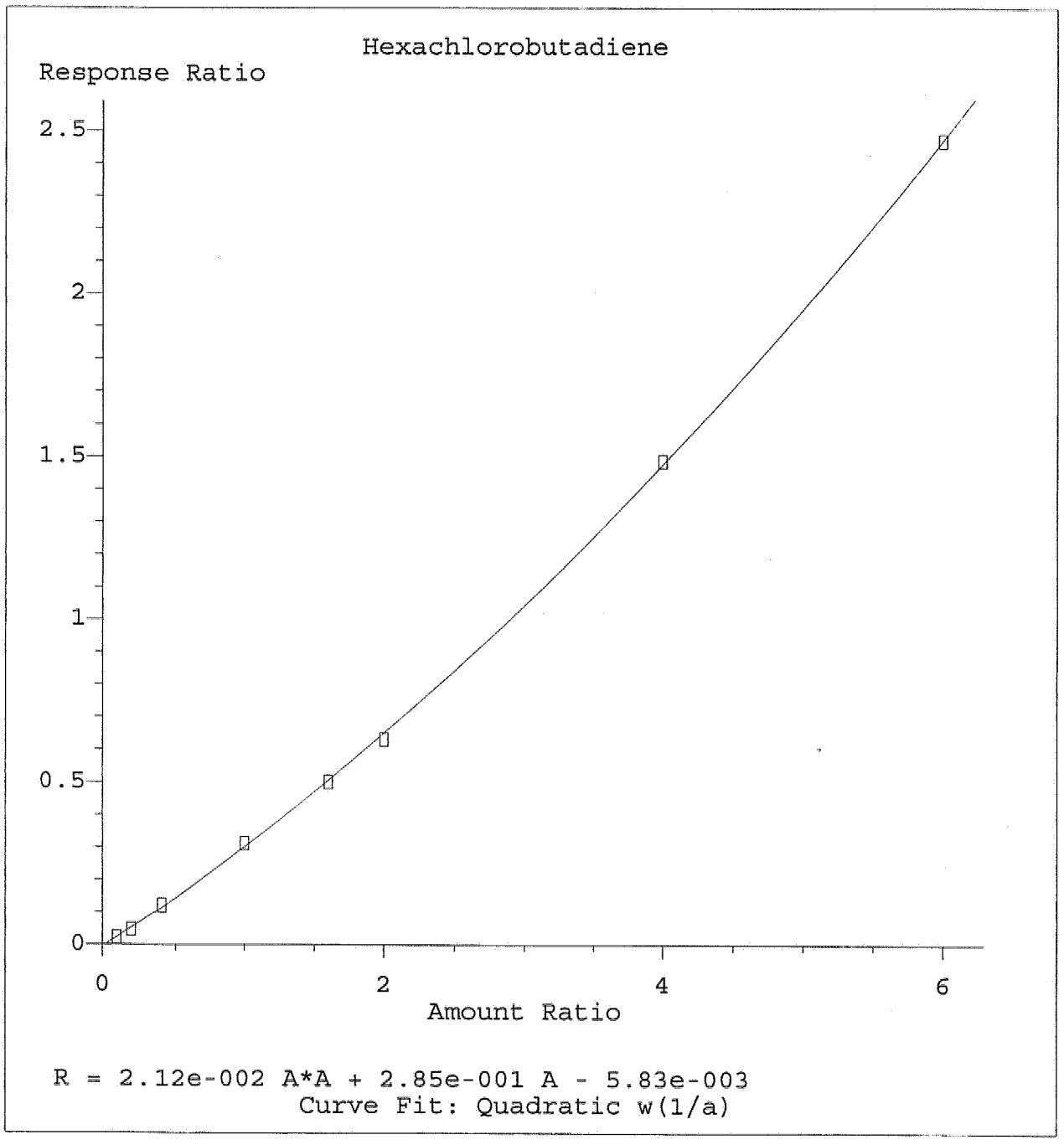
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Calibration Table Last Updated: Tue Mar 28 09:22:46 2006

ea
3/28/06



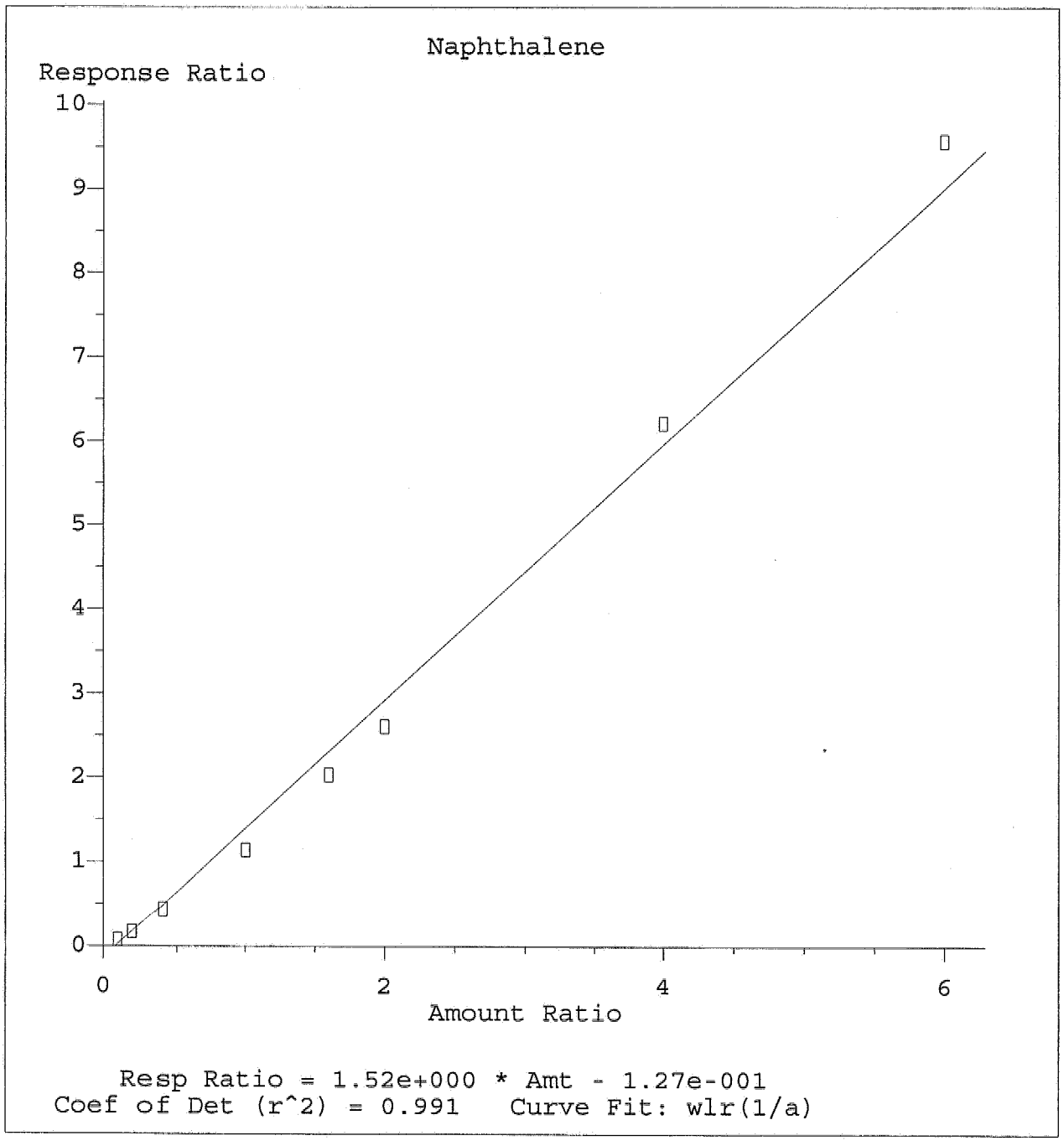
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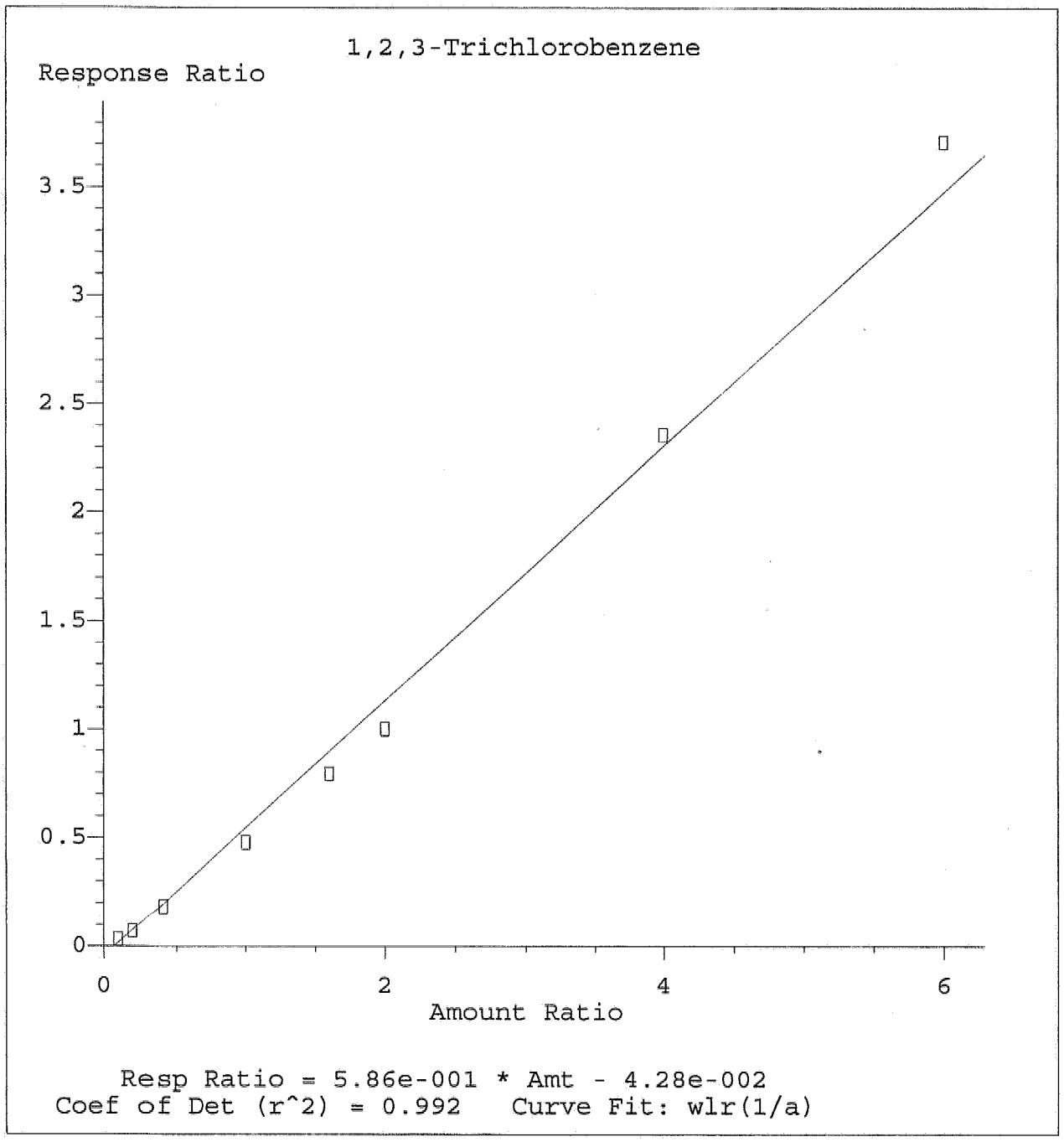
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Calibration Table Last Updated: Tue Mar 28 09:22:46 2006

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Method Name: D:\HPCHEM\1\METHODS\VO67C23.M
Calibration Table Last Updated: Tue Mar 28 09:22:46 2006

er
3/24/06



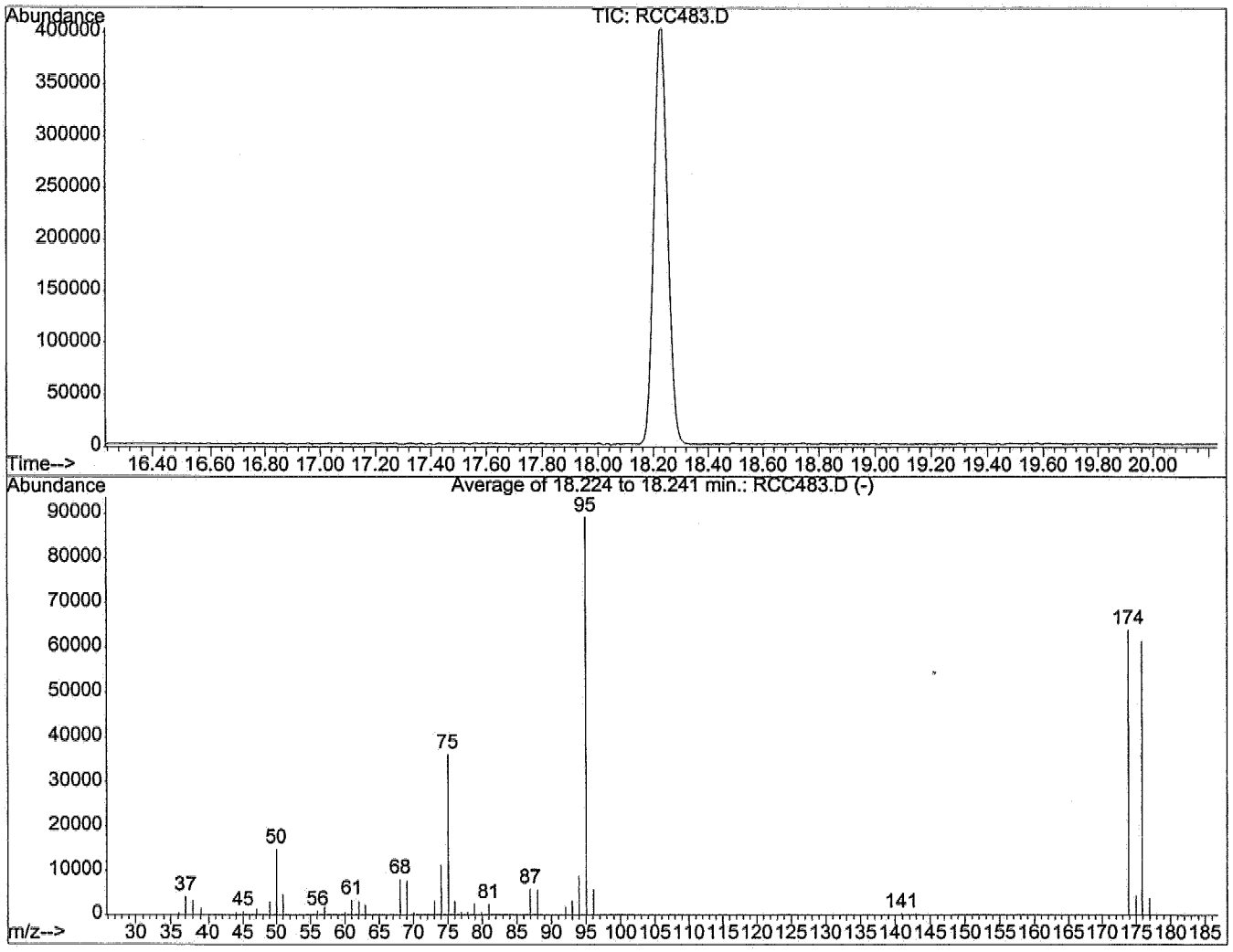
Method Name: D:\HPCHEM\1\METHODS\VO67C23.M
Calibration Table Last Updated: Tue Mar 28 09:22:46 2006

CW
3/28/06

BFB

Data File : D:\HPCHEM\1\DATA\06C23\RCC483.D
Acq On : 23 Mar 2006 1:23 pm
Sample : BFB67C32
Misc : BFB TUNE
MS Integration Params: LSCINT.P
Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml

Vial: 1
Operator: CGM
Inst : TO67
Multiplr: 1.00



AutoFind: Scans 1682, 1683, 1684; Background Corrected with Scan 1672

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	14991	PASS
75	95	30	60	40.6	36224	PASS
95	95	100	100	100.0	89312	PASS
96	95	5	9	6.6	5860	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.6	63949	PASS
175	174	5	9	7.1	4544	PASS
176	174	95	101	96.2	61499	PASS
177	176	5	9	6.4	3940	PASS

RCC483.D VO67C23.M Tue Mar 28 10:02:49 2006

3/28/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC495.D Vial: 13
Acq On : 23 Mar 2006 8:31 pm Operator: CGM
Sample : VO67C2310 Inst : TO67
Misc : 2ppb 8260/8ppb Ket-AA/10ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:13 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:13:45 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2487415	50.00	ug/l		0.01
36) CHLOROBENZENE-D5	15.71	117	2134097	50.00	ug/l		0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	645210	50.00	ug/l		0.00
System Monitoring Compounds							
35) 1,2-Dichloroethane-d4	9.69	65	22900	2.47	ug/l		0.01
Spiked Amount 50.000			Recovery =	4.94%			
49) Toluene-d8	12.68	98	118249	3.13	ug/l		0.01
Spiked Amount 50.000			Recovery =	6.26%			
70) 4-Bromofluorobenzene	18.46	95	44273	3.87	ug/l		0.00
Spiked Amount 50.000			Recovery =	7.74%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.54	85	23099	1.87	ug/l		94
3) Chloromethane	4.03	50	19082	1.88	ug/l		95
4) Vinyl chloride	4.18	62	21144	3.04	ug/l		93
5) Bromomethane	4.89	94	28312	3.61	ug/l		77
6) Chloroethane	5.00	64	11855	2.10	ug/l		95
7) Trichlorofluoromethane	5.37	101	23467	1.91	ug/l		97
9) Acrolein	5.95	56	11119	7.06	ug/l		95
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	18468	1.99	ug/l		100
11) Acetone	6.03	43	25929	8.82	ug/l		92
12) 1,1-Dichloroethene	6.23	61	36362	1.90	ug/l		96
13) tert-Butyl alcohol	6.32	59	6866	6.42	ug/l	#	1
16) Iodomethane	6.70	142	11222	0.83	ug/l	#	77
17) Methylene chloride	6.86	49	101272	4.77	ug/l		97
18) Carbon disulfide	6.99	76	93772	1.89	ug/l		99
19) Acrylonitrile	6.98	53	31562	7.68	ug/l		96
20) tert-Butyl methyl ether (M	7.01	73	47402	1.85	ug/l		99
21) trans-1,2-Dichloroethene	7.25	61	35191	1.74	ug/l		98
22) Isopropyl ether (DIPE)	7.55	45	80204	1.77	ug/l		98
23) 1,1-Dichloroethane	7.77	63	48119	1.88	ug/l		98
24) Vinyl acetate	7.69	43	42851	1.67	ug/l		91
25) tert-Butyl ethyl ether (ET	8.07	59	58581	1.78	ug/l		97
26) 2-Butanone	8.26	43	45789	7.52	ug/l		93
27) 2,2-Dichloropropane	8.48	77	28451	1.79	ug/l		96
28) cis-1,2-Dichloroethene	8.56	61	42039	1.80	ug/l		98
30) Chloroform	8.75	83	46770	1.90	ug/l		97
31) Bromochloromethane	8.99	49	24599	1.77	ug/l		92
32) 1,1,1-Trichloroethane	9.29	97	32796	1.88	ug/l		98
34) tert-Amyl methyl ether (TA	9.56	73	60909	1.76	ug/l		98
37) 1,1-Dichloropropene	9.48	77	12360	1.98	ug/l		96

(#) = qualifier out of range (m) = manual integration

3/28/06

2046

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC495.D Vial: 13
Acq On : 23 Mar 2006 8:31 pm Operator: CGM
Sample : VO67C2310 Inst : TO67
Misc : 2ppb 8260/8ppb Ket-AA/10ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:13 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:13:45 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Carbon tetrachloride	9.66	119	28078	1.93	ug/l		98
39)	1,2-Dichloroethane	9.81	62	26824	1.94	ug/l		93
40)	Benzene	9.88	78	124202	2.10	ug/l		97
41)	Trichloroethene	10.72	130	32885	2.04	ug/l		98
43)	1,2-Dichloropropane	10.97	63	31741	1.94	ug/l		97
44)	Bromodichloromethane	11.36	83	32628	1.85	ug/l		99
45)	Dibromomethane	11.49	93	19064	1.90	ug/l		99
46)	2-Chloroethyl vinyl ether	11.67	63	2999	1.20	ug/l	#	45
47)	4-Methyl-2-pentanone	11.75	43	108291	8.34	ug/l		98
48)	cis-1,3-Dichloropropene	12.19	75	36706	1.75	ug/l		99
50)	Toluene	12.83	91	118508	2.08	ug/l		99
51)	Ethyl methacrylate	12.89	69	19407	1.31	ug/l		94
52)	trans-1,3-Dichloropropene	13.06	75	24950	1.64	ug/l		98
53)	1,1,2-Trichloroethane	13.40	97	23458	1.93	ug/l		97
54)	2-Hexanone	13.28	43	96930	11.97	ug/l		98
55)	1,3-Dichloropropane	13.86	76	39822	1.94	ug/l		95
56)	Tetrachloroethene	14.08	164	22907	2.05	ug/l		98
57)	Dibromochloromethane	14.52	129	22552	1.66	ug/l		100
58)	1,2-Dibromoethane	14.95	107	24019	1.75	ug/l		98
59)	1-Chlorohexane	15.05	91	38285	1.70	ug/l		99
60)	Chlorobenzene	15.80	112	82116	2.10	ug/l		98
61)	1,1,1,2-Tetrachloroethane	15.84	131	23550	1.91	ug/l	#	65
62)	Ethylbenzene	15.84	91	123728	1.96	ug/l		99
63)	m-Xylene & p-Xylene	16.01	91	178281	3.83	ug/l		99
64)	o-Xylene	17.02	91	89628	1.85	ug/l		99
65)	Styrene	17.08	104	64484	1.62	ug/l		97
67)	Bromoform	17.99	173	12621	1.88	ug/l		91
68)	Isopropylbenzene	17.81	105	94489	2.03	ug/l		99
69)	1,1,2,2-Tetrachloroethane	18.21	83	33506	2.10	ug/l		96
71)	1,2,3-Trichloropropane	18.58	61	5147	1.89	ug/l		88
72)	trans-1,4-Dichloro-2-buten	18.69	53	1536	1.10	ug/l	#	1
73)	n-Propylbenzene	18.78	91	116300	1.82	ug/l		99
74)	Bromobenzene	19.01	156	26524	2.28	ug/l		98
75)	2-Chlorotoluene	19.30	91	85011	2.18	ug/l		99
76)	1,3,5-Trimethylbenzene	19.16	105	71662	1.87	ug/l		100
77)	4-Chlorotoluene	19.40	91	70508	2.20	ug/l		100
78)	tert-Butylbenzene	20.07	119	62557	1.84	ug/l		100
79)	1,2,4-Trimethylbenzene	20.18	105	66310	1.76	ug/l		99
80)	sec-Butylbenzene	20.62	105	89808	1.62	ug/l		100
81)	p-Isopropyltoluene	20.95	119	52304	1.44	ug/l		98
82)	1,3-Dichlorobenzene	21.31	146	47723	2.18	ug/l		100

(#) = qualifier out of range (m) = manual integration

3/28/06

2047

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC495.D Vial: 13
Acq On : 23 Mar 2006 8:31 pm Operator: CGM
Sample : VO67C2310 Inst : TO67
Misc : 2ppb 8260/8ppb Ket-AA/10ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:13 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:13:45 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

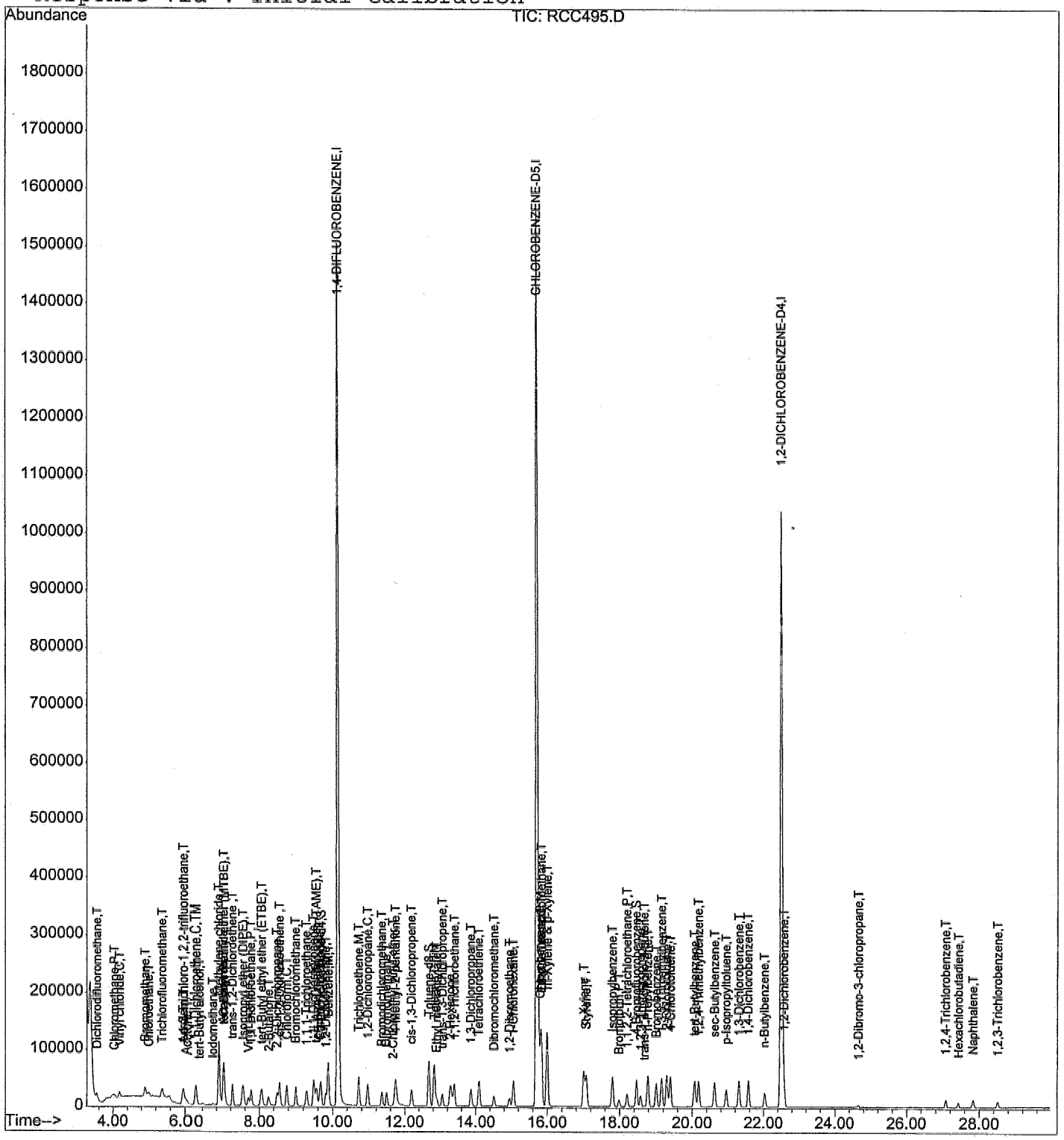
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
83)	1,4-Dichlorobenzene	21.56	146	47350	2.22	ug/l		100
84)	n-Butylbenzene	22.02	91	41432	1.24	ug/l		98
85)	1,2-Dichlorobenzene	22.57	146	43721	2.23	ug/l		97
86)	1,2-Dibromo-3-chloropropan	24.66	157	1912	1.02	ug/l	#	66
87)	1,2,4-Trichlorobenzene	27.07	180	11971	1.59	ug/l		97
88)	Hexachlorobutadiene	27.43	225	5614	1.40	ug/l		85
89)	Naphthalene	27.83	128	29512	2.00	ug/l		91
90)	1,2,3-Trichlorobenzene	28.50	180	10573	1.72	ug/l		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC495.D Vial: 13
Acq On : 23 Mar 2006 8:31 pm Operator: CGM
Sample : VO67C2310 Inst : TO67
Misc : 2ppb 8260/8ppb Ket-AA/10ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:13 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC496.D Vial: 14
Acq On : 23 Mar 2006 9:07 pm Operator: CGM
Sample : VO67C2311 Inst : TO67
Misc : 5ppb 8260/20ppb Ket-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:14 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:14:05 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2494957	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.70	117	2171215	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	657788	50.00	ug/l	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	55394	5.33	ug/l	0.00
Spiked Amount 50.000			Recovery =	10.66%		
49) Toluene-d8	12.68	98	234551	4.76	ug/l	0.00
Spiked Amount 50.000			Recovery =	9.52%		
70) 4-Bromofluorobenzene	18.46	95	76813	4.49	ug/l	0.00
Spiked Amount 50.000			Recovery =	8.98%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.54	85	63341	5.29	ug/l	98
3) Chloromethane	4.01	50	51002	5.17	ug/l	99
4) Vinyl chloride	4.18	62	54766	6.23	ug/l	99
5) Bromomethane	4.89	94	63101	5.72	ug/l	93
6) Chloroethane	4.99	64	29148	5.02	ug/l	98
7) Trichlorofluoromethane	5.37	101	63573	5.28	ug/l	98
9) Acrolein	5.96	56	27021	18.18	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	46912	5.05	ug/l	100
11) Acetone	6.02	43	52786	17.03	ug/l	100
12) 1,1-Dichloroethene	6.23	61	93180	4.98	ug/l	99
13) tert-Butyl alcohol	6.34	59	19440	22.06	ug/l	84
16) Iodomethane	6.69	142	20751	2.16	ug/l	90
17) Methylene chloride	6.86	49	157286	4.36	ug/l	98
18) Carbon disulfide	6.99	76	234119	4.84	ug/l	99
19) Acrylonitrile	6.99	53	70554	17.46	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	112590	4.55	ug/l	99
21) trans-1,2-Dichloroethene	7.24	61	92916	4.89	ug/l	99
22) Isopropyl ether (DIPE)	7.54	45	203790	4.76	ug/l	100
23) 1,1-Dichloroethane	7.78	63	119318	4.79	ug/l	100
24) Vinyl acetate	7.69	43	101713	4.31	ug/l	96
25) tert-Butyl ethyl ether (ET	8.05	59	146276	4.69	ug/l	100
26) 2-Butanone	8.26	43	100198	16.91	ug/l	97
27) 2,2-Dichloropropane	8.50	77	70802	4.68	ug/l	99
28) cis-1,2-Dichloroethene	8.55	61	99661	4.47	ug/l	92
30) Chloroform	8.75	83	112802	4.69	ug/l	99
31) Bromochloromethane	9.00	49	63372	4.82	ug/l	98
32) 1,1,1-Trichloroethane	9.28	97	84372	4.97	ug/l	98
34) tert-Amyl methyl ether (TA	9.55	73	153336	4.69	ug/l	99
37) 1,1-Dichloropropene	9.49	77	31348	4.96	ug/l	99

(#) = qualifier out of range (m) = manual integration

RCC496.D VO67C23.M Fri Mar 24 11:24:27 2006 3/24/06 Page 1

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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC496.D Vial: 14
Acq On : 23 Mar 2006 9:07 pm Operator: CGM
Sample : VO67C2311 Inst : TO67
Misc : 5ppb 8260/20ppb Ket-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:14 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:14:05 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	Carbon tetrachloride	9.66	119	71851	4.94 ug/l		100
39)	1,2-Dichloroethane	9.81	62	65823	4.75 ug/l		97
40)	Benzene	9.88	78	306772	4.97 ug/l		99
41)	Trichloroethene	10.71	130	83228	5.03 ug/l		98
43)	1,2-Dichloropropane	10.97	63	77284	4.71 ug/l		99
44)	Bromodichloromethane	11.35	83	81903	4.75 ug/l		99
45)	Dibromomethane	11.49	93	44613	4.49 ug/l		97
46)	2-Chloroethyl vinyl ether	11.68	63	9003	4.42 ug/l		85
47)	4-Methyl-2-pentanone	11.74	43	205076	15.20 ug/l		99
48)	cis-1,3-Dichloropropene	12.19	75	90817	4.54 ug/l		100
50)	Toluene	12.83	91	287276	4.86 ug/l		99
51)	Ethyl methacrylate	12.89	69	52565	4.22 ug/l		98
52)	trans-1,3-Dichloropropene	13.05	75	62025	4.40 ug/l		99
53)	1,1,2-Trichloroethane	13.38	97	56113	4.61 ug/l		99
54)	2-Hexanone	13.28	43	136194	13.24 ug/l		98
55)	1,3-Dichloropropane	13.86	76	96352	4.68 ug/l		98
56)	Tetrachloroethene	14.10	164	56573	4.91 ug/l		99
57)	Dibromochloromethane	14.51	129	59388	4.70 ug/l		100
58)	1,2-Dibromoethane	14.94	107	60776	4.64 ug/l		98
59)	1-Chlorohexane	15.05	91	99162	4.68 ug/l		99
60)	Chlorobenzene	15.79	112	194504	4.76 ug/l		99
61)	1,1,1,2-Tetrachloroethane	15.84	131	59024	4.81 ug/l		98
62)	Ethylbenzene	15.84	91	303209	4.77 ug/l		99
63)	m-Xylene & p-Xylene	15.99	91	449349	9.69 ug/l		100
64)	o-Xylene	17.02	91	220317	4.64 ug/l		100
65)	Styrene	17.07	104	166731	4.55 ug/l		98
67)	Bromoform	17.98	173	30526	4.59 ug/l		98
68)	Isopropylbenzene	17.80	105	242934	5.08 ug/l		99
69)	1,1,2,2-Tetrachloroethane	18.21	83	79292	4.76 ug/l		99
71)	1,2,3-Trichloropropane	18.58	61	13214	4.90 ug/l		91
72)	trans-1,4-Dichloro-2-buten	18.70	53	4492	4.07 ug/l	#	20
73)	n-Propylbenzene	18.79	91	303101	4.87 ug/l		100
74)	Bromobenzene	19.01	156	62918	4.96 ug/l		98
75)	2-Chlorotoluene	19.29	91	206125	4.96 ug/l		100
76)	1,3,5-Trimethylbenzene	19.16	105	188196	4.97 ug/l		100
77)	4-Chlorotoluene	19.40	91	171432	5.00 ug/l		99
78)	tert-Butylbenzene	20.07	119	163979	4.92 ug/l		98
79)	1,2,4-Trimethylbenzene	20.17	105	171818	4.76 ug/l		100
80)	sec-Butylbenzene	20.62	105	235999	4.62 ug/l		100
81)	p-Isopropyltoluene	20.95	119	142152	4.46 ug/l		99
82)	1,3-Dichlorobenzene	21.30	146	109823	4.71 ug/l		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC496.D Vial: 14
Acq On : 23 Mar 2006 9:07 pm Operator: CGM
Sample : VO67C2311 Inst : TO67
Misc : 5ppb 8260/20ppb Ket-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:14 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:14:05 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
83)	1,4-Dichlorobenzene	21.57	146	106435	4.64 ug/l	99
84)	n-Butylbenzene	22.02	91	108254	3.93 ug/l	99
85)	1,2-Dichlorobenzene	22.57	146	98861	4.68 ug/l	92
86)	1,2-Dibromo-3-chloropropan	24.67	157	5977	4.15 ug/l	93
87)	1,2,4-Trichlorobenzene	27.08	180	26653	3.87 ug/l	95
88)	Hexachlorobutadiene	27.43	225	15180	4.36 ug/l	98
89)	Naphthalene	27.83	128	52224	3.47 ug/l	97
90)	1,2,3-Trichlorobenzene	28.51	180	21969	3.76 ug/l	98

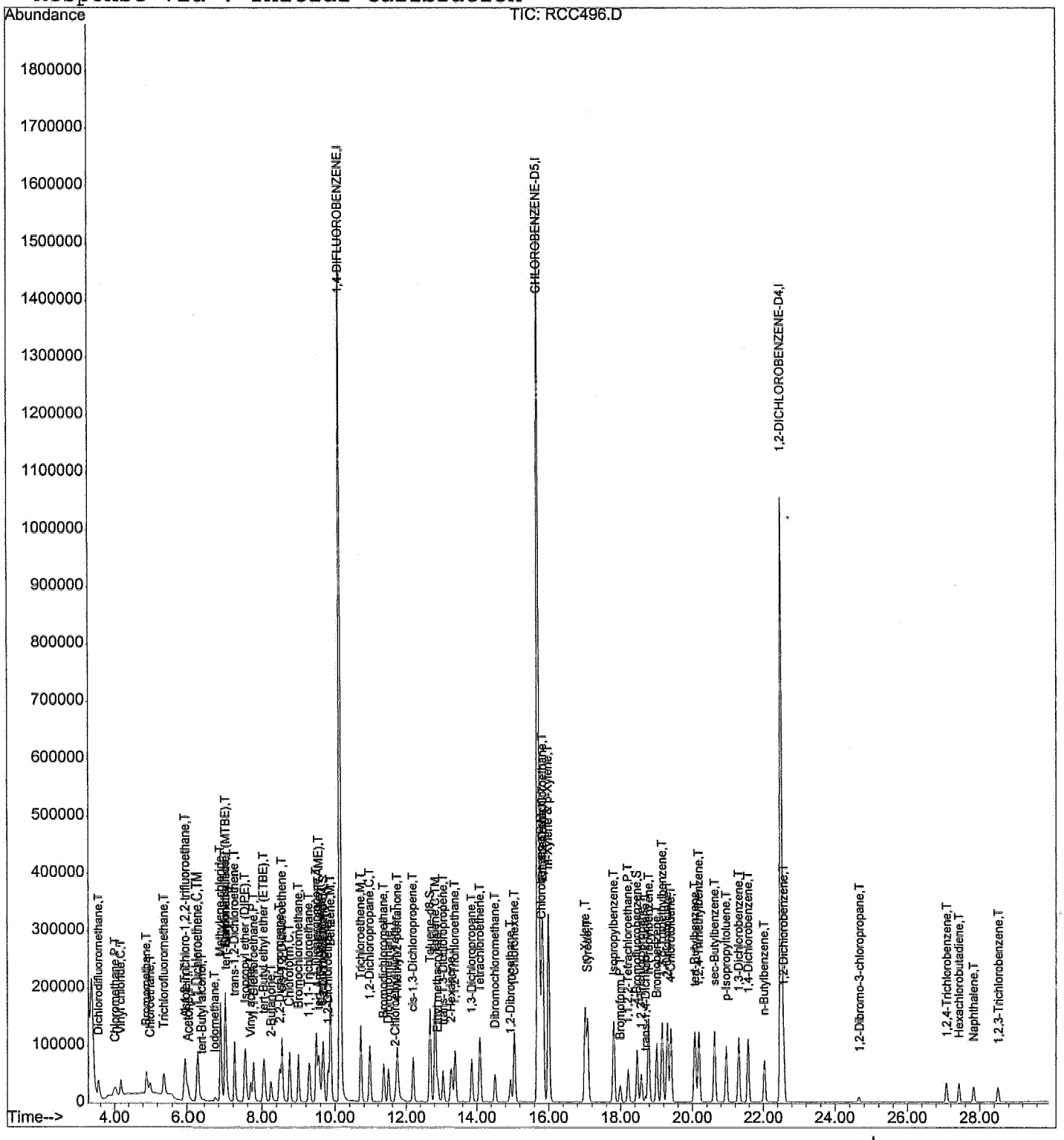
(#) = qualifier out of range (m) = manual integration
RCC496.D VO67C23.M Fri Mar 24 11:24:28 2006 3/28/06 Page 3

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Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC496.D Vial: 14
Acq On : 23 Mar 2006 9:07 pm Operator: CGM
Sample : VO67C2311 Inst : TO67
Misc : 5ppb 8260/20ppb Ket-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:14 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC497.D Vial: 15
Acq On : 23 Mar 2006 9:42 pm Operator: CGM
Sample : VO67C2312 Inst : TO67
Misc : 10ppb 8260/40ppb Ket-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:14 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:14:21 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2530364	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.71	117	2313936	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	729584	50.00	ug/l	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.68	65	110176	10.23	ug/l	0.00
Spiked Amount 50.000			Recovery = 20.46%			
49) Toluene-d8	12.67	98	502054	9.72	ug/l	0.00
Spiked Amount 50.000			Recovery = 19.44%			
70) 4-Bromofluorobenzene	18.46	95	167818	9.15	ug/l	0.00
Spiked Amount 50.000			Recovery = 18.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.54	85	125421	10.13	ug/l	99
3) Chloromethane	4.03	50	96109	9.50	ug/l	96
4) Vinyl chloride	4.18	62	104789	10.87	ug/l	100
5) Bromomethane	4.90	94	117534	10.02	ug/l	95
6) Chloroethane	5.00	64	58920	10.00	ug/l	98
7) Trichlorofluoromethane	5.37	101	127476	10.24	ug/l	100
9) Acrolein	5.95	56	62825	42.97	ug/l	94
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	96752	10.24	ug/l	100
11) Acetone	6.03	43	119323	39.93	ug/l	100
12) 1,1-Dichloroethene	6.24	61	194122	10.24	ug/l	98
13) tert-Butyl alcohol	6.30	59	51647	60.15	ug/l	96
16) Iodomethane	6.70	142	49382	6.25	ug/l	96
17) Methylene chloride	6.86	49	252404	7.21	ug/l	99
18) Carbon disulfide	7.00	76	477775	9.85	ug/l	99
19) Acrylonitrile	6.98	53	163591	41.68	ug/l	96
20) tert-Butyl methyl ether (M	7.00	73	256154	10.52	ug/l	99
21) trans-1,2-Dichloroethene	7.25	61	191557	10.02	ug/l	98
22) Isopropyl ether (DIPE)	7.53	45	433028	10.14	ug/l	100
23) 1,1-Dichloroethane	7.77	63	245169	9.84	ug/l	99
24) Vinyl acetate	7.68	43	202320	8.86	ug/l	98
25) tert-Butyl ethyl ether (ET	8.05	59	323303	10.44	ug/l	99
26) 2-Butanone	8.25	43	242522	42.55	ug/l	99
27) 2,2-Dichloropropane	8.48	77	149172	9.94	ug/l	99
28) cis-1,2-Dichloroethene	8.56	61	223068	10.23	ug/l	99
30) Chloroform	8.75	83	234872	9.83	ug/l	99
31) Bromochloromethane	8.99	49	134690	10.23	ug/l	97
32) 1,1,1-Trichloroethane	9.29	97	167511	9.74	ug/l	99
34) tert-Amyl methyl ether (TA	9.56	73	335719	10.34	ug/l	99
37) 1,1-Dichloropropene	9.48	77	64388	9.58	ug/l	99

(#) = qualifier out of range (m) = manual integration

3/28/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC497.D Vial: 15
Acq On : 23 Mar 2006 9:42 pm Operator: CGM
Sample : VO67C2312 Inst : TO67
Misc : 10ppb 8260/40ppb Ket-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:14 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:14:21 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Carbon tetrachloride	9.66	119	146494	9.49	ug/l	100
39)	1,2-Dichloroethane	9.81	62	138067	9.50	ug/l	99
40)	Benzene	9.87	78	620994	9.46	ug/l	99
41)	Trichloroethene	10.72	130	169650	9.60	ug/l	98
43)	1,2-Dichloropropane	10.97	63	164770	9.61	ug/l	99
44)	Bromodichloromethane	11.36	83	173795	9.62	ug/l	100
45)	Dibromomethane	11.49	93	99520	9.73	ug/l	98
46)	2-Chloroethyl vinyl ether	11.69	63	23257	11.15	ug/l	95
47)	4-Methyl-2-pentanone	11.73	43	505942	38.24	ug/l	100
48)	cis-1,3-Dichloropropene	12.19	75	201470	9.75	ug/l	99
50)	Toluene	12.82	91	589671	9.44	ug/l	100
51)	Ethyl methacrylate	12.89	69	130386	10.36	ug/l	99
52)	trans-1,3-Dichloropropene	13.04	75	144313	10.01	ug/l	99
53)	1,1,2-Trichloroethane	13.39	97	125267	9.92	ug/l	99
54)	2-Hexanone	13.27	43	308240	31.70	ug/l	99
55)	1,3-Dichloropropane	13.86	76	211150	9.84	ug/l	100
56)	Tetrachloroethene	14.10	164	117307	9.61	ug/l	99
57)	Dibromochloromethane	14.52	129	132431	10.04	ug/l	99
58)	1,2-Dibromoethane	14.95	107	134364	9.86	ug/l	100
59)	1-Chlorohexane	15.05	91	212014	9.59	ug/l	99
60)	Chlorobenzene	15.80	112	404071	9.44	ug/l	98
61)	1,1,1,2-Tetrachloroethane	15.84	131	124695	9.66	ug/l	99
62)	Ethylbenzene	15.84	91	628457	9.43	ug/l	100
63)	m-Xylene & p-Xylene	15.99	91	920452	18.82	ug/l	99
64)	o-Xylene	17.02	91	474420	9.60	ug/l	99
65)	Styrene	17.08	104	365898	9.65	ug/l	99
67)	Bromoform	17.99	173	74085	10.33	ug/l	98
68)	Isopropylbenzene	17.81	105	520175	9.76	ug/l	100
69)	1,1,2,2-Tetrachloroethane	18.21	83	182786	10.05	ug/l	100
71)	1,2,3-Trichloropropane	18.58	61	31977	10.76	ug/l	97
72)	trans-1,4-Dichloro-2-buten	18.69	53	13797	12.03	ug/l	85
73)	n-Propylbenzene	18.78	91	672751	9.83	ug/l	100
74)	Bromobenzene	19.02	156	136325	9.71	ug/l	99
75)	2-Chlorotoluene	19.30	91	443429	9.65	ug/l	100
76)	1,3,5-Trimethylbenzene	19.16	105	413325	9.87	ug/l	100
77)	4-Chlorotoluene	19.40	91	358899	9.43	ug/l	100
78)	tert-Butylbenzene	20.07	119	360123	9.80	ug/l	98
79)	1,2,4-Trimethylbenzene	20.18	105	388274	9.86	ug/l	100
80)	sec-Butylbenzene	20.62	105	545564	9.88	ug/l	100
81)	p-Isopropyltoluene	20.95	119	335353	9.84	ug/l	100
82)	1,3-Dichlorobenzene	21.31	146	239700	9.45	ug/l	99

(#) = qualifier out of range (m) = manual integration

3/24/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC497.D Vial: 15
Acq On : 23 Mar 2006 9:42 pm Operator: CGM
Sample : VO67C2312 Inst : TO67
Misc : 10ppb 8260/40ppb Ket-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:14 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:14:21 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,4-Dichlorobenzene	21.58	146	232271	9.35	ug/l	99
84)	n-Butylbenzene	22.02	91	275704	9.71	ug/l	100
85)	1,2-Dichlorobenzene	22.58	146	218776	9.54	ug/l	98
86)	1,2-Dibromo-3-chloropropan	24.66	157	19359	12.84	ug/l	98
87)	1,2,4-Trichlorobenzene	27.07	180	67189	9.51	ug/l	98
88)	Hexachlorobutadiene	27.43	225	34405	9.31	ug/l	97
89)	Naphthalene	27.83	128	126986	8.48	ug/l	99
90)	1,2,3-Trichlorobenzene	28.50	180	53061	8.93	ug/l	98

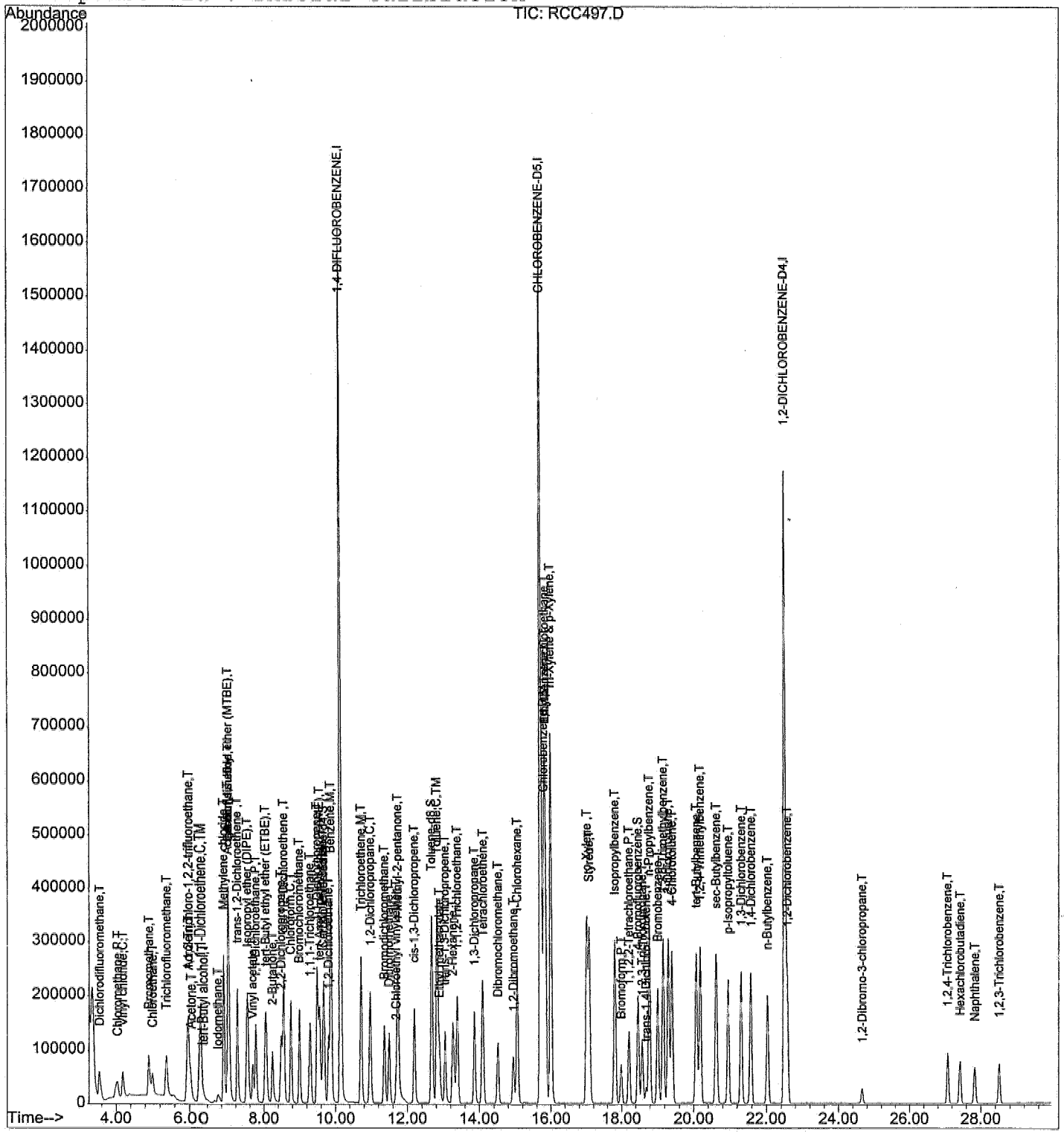
(#) = qualifier out of range (m) = manual integration
RCC497.D VO67C23.M Fri Mar 24 11:24:38 2006 3/28/06 Page 3

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Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC497.D Vial: 15
Acq On : 23 Mar 2006 9:42 pm Operator: CGM
Sample : VO67C2312 Inst : TO67
Misc : 10ppb 8260/40ppb Ket-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:14 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC498.D Vial: 16
Acq On : 23 Mar 2006 10:18 pm Operator: CGM
Sample : VO67C2313 Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:15 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:14:37 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2608254	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.71	117	2334033	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	804493	50.00	ug/l	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.68	65	235752	21.11	ug/l	0.00
Spiked Amount 50.000			Recovery = 42.22%			
49) Toluene-d8	12.69	98	1036236	20.02	ug/l	0.01
Spiked Amount 50.000			Recovery = 40.04%			
70) 4-Bromofluorobenzene	18.46	95	371514	18.78	ug/l	0.00
Spiked Amount 50.000			Recovery = 37.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.53	85	258639	20.20	ug/l	100
3) Chloromethane	4.02	50	212039	20.59	ug/l	100
4) Vinyl chloride	4.17	62	200438	19.74	ug/l	99
5) Bromomethane	4.90	94	226218	18.70	ug/l	97
6) Chloroethane	5.00	64	120456	19.83	ug/l	99
7) Trichlorofluoromethane	5.37	101	265588	20.58	ug/l	100
9) Acrolein	5.94	56	124189	80.91	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	213282	21.76	ug/l	99
11) Acetone	6.01	43	232039	75.36	ug/l	100
12) 1,1-Dichloroethene	6.24	61	419784	21.35	ug/l	98
13) tert-Butyl alcohol	6.28	59	114835	123.48	ug/l	92
16) Iodomethane	6.70	142	149303	20.24	ug/l	97
17) Methylene chloride	6.86	49	486861	14.51	ug/l	98
18) Carbon disulfide	7.00	76	1052799	21.14	ug/l	100
19) Acrylonitrile	6.98	53	313506	76.69	ug/l	99
20) tert-Butyl methyl ether (M	7.00	73	573302	22.55	ug/l	98
21) trans-1,2-Dichloroethene	7.25	61	433271	21.97	ug/l	98
22) Isopropyl ether (DIPE)	7.53	45	989525	22.40	ug/l	100
23) 1,1-Dichloroethane	7.77	63	552591	21.61	ug/l	99
24) Vinyl acetate	7.68	43	475663	20.79	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	722681	22.39	ug/l	100
26) 2-Butanone	8.25	43	455860	76.37	ug/l	99
27) 2,2-Dichloropropane	8.49	77	329695	21.35	ug/l	98
28) cis-1,2-Dichloroethene	8.56	61	508764	22.51	ug/l	98
30) Chloroform	8.75	83	537222	21.91	ug/l	99
31) Bromochloromethane	8.99	49	302058	22.13	ug/l	95
32) 1,1,1-Trichloroethane	9.29	97	372176	21.14	ug/l	99
34) tert-Amyl methyl ether (TA	9.54	73	773049	22.91	ug/l	100
37) 1,1-Dichloropropene	9.48	77	144201	21.49	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC498.D Vial: 16
Acq On : 23 Mar 2006 10:18 pm Operator: CGM
Sample : VO67C2313 Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:15 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:14:37 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	Carbon tetrachloride	9.66	119	337507	21.95 ug/l	99
39)	1,2-Dichloroethane	9.81	62	313479	21.66 ug/l	99
40)	Benzene	9.87	78	1370360	20.98 ug/l	99
41)	Trichloroethene	10.72	130	377094	21.37 ug/l	99
43)	1,2-Dichloropropane	10.97	63	373744	21.83 ug/l	98
44)	Bromodichloromethane	11.36	83	404039	22.38 ug/l	99
45)	Dibromomethane	11.49	93	228833	22.32 ug/l	98
46)	2-Chloroethyl vinyl ether	11.69	63	57997	26.80 ug/l	97
47)	4-Methyl-2-pentanone	11.73	43	1060626	80.36 ug/l	100
48)	cis-1,3-Dichloropropene	12.19	75	472782	22.83 ug/l	100
50)	Toluene	12.82	91	1309652	21.09 ug/l	100
51)	Ethyl methacrylate	12.88	69	312208	24.37 ug/l	100
52)	trans-1,3-Dichloropropene	13.04	75	347772	23.91 ug/l	98
53)	1,1,2-Trichloroethane	13.39	97	283379	22.29 ug/l	99
54)	2-Hexanone	13.27	43	628244	67.55 ug/l	99
55)	1,3-Dichloropropane	13.86	76	476670	22.11 ug/l	100
56)	Tetrachloroethene	14.09	164	260782	21.39 ug/l	99
57)	Dibromochloromethane	14.52	129	313214	23.52 ug/l	100
58)	1,2-Dibromoethane	14.95	107	312423	22.82 ug/l	100
59)	1-Chlorohexane	15.05	91	511024	23.15 ug/l	99
60)	Chlorobenzene	15.80	112	909804	21.36 ug/l	99
61)	1,1,1,2-Tetrachloroethane	15.84	131	291194	22.55 ug/l	99
62)	Ethylbenzene	15.84	91	1429816	21.57 ug/l	100
63)	m-Xylene & p-Xylene	15.99	91	2173260	44.71 ug/l	100
64)	o-Xylene	17.02	91	1100572	22.31 ug/l	100
65)	Styrene	17.08	104	889052	23.46 ug/l	100
67)	Bromoform	17.99	173	178435	22.38 ug/l	99
68)	Isopropylbenzene	17.81	105	1239487	21.22 ug/l	100
69)	1,1,2,2-Tetrachloroethane	18.21	83	419293	20.88 ug/l	100
71)	1,2,3-Trichloropropane	18.58	61	72255	21.63 ug/l	96
72)	trans-1,4-Dichloro-2-buten	18.69	53	33223	24.99 ug/l	97
73)	n-Propylbenzene	18.78	91	1645551	21.90 ug/l	99
74)	Bromobenzene	19.02	156	320313	20.84 ug/l	99
75)	2-Chlorotoluene	19.30	91	1033872	20.59 ug/l	100
76)	1,3,5-Trimethylbenzene	19.16	105	1012614	22.00 ug/l	100
77)	4-Chlorotoluene	19.40	91	866249	20.95 ug/l	100
78)	tert-Butylbenzene	20.07	119	893962	22.17 ug/l	99
79)	1,2,4-Trimethylbenzene	20.18	105	972259	22.47 ug/l	100
80)	sec-Butylbenzene	20.62	105	1383104	22.79 ug/l	100
81)	p-Isopropyltoluene	20.95	119	905587	24.19 ug/l	100
82)	1,3-Dichlorobenzene	21.31	146	585610	21.23 ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC498.D Vial: 16
Acq On : 23 Mar 2006 10:18 pm Operator: CGM
Sample : VO67C2313 Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:15 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:14:37 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

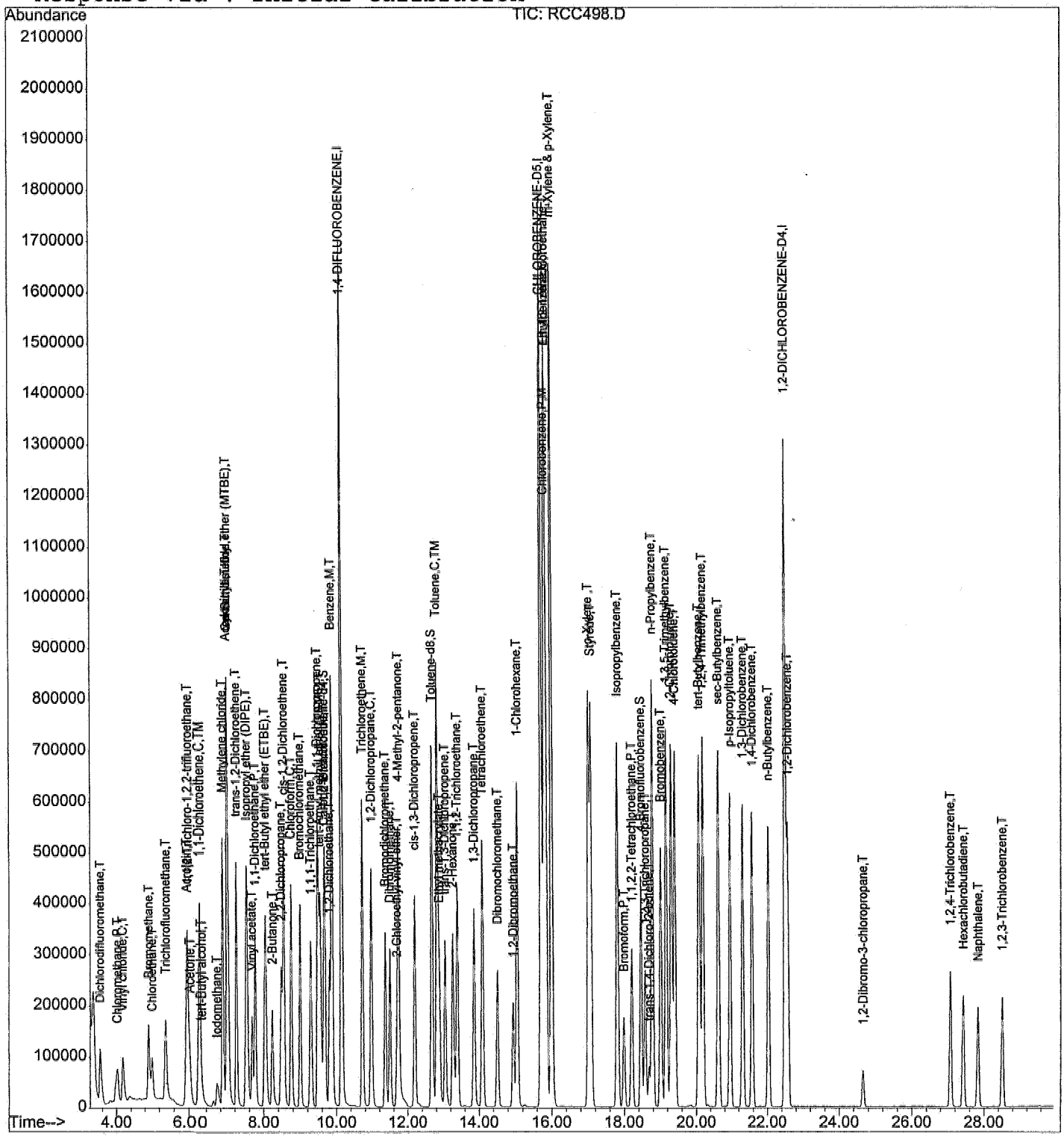
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,4-Dichlorobenzene	21.58	146	566748	21.03	ug/l	99
84)	n-Butylbenzene	22.02	91	775035	24.94	ug/l	100
85)	1,2-Dichlorobenzene	22.58	146	524285	20.97	ug/l	99
86)	1,2-Dibromo-3-chloropropan	24.66	157	45706	25.67	ug/l	99
87)	1,2,4-Trichlorobenzene	27.07	180	182568	23.73	ug/l	100
88)	Hexachlorobutadiene	27.43	225	96892	24.19	ug/l	98
89)	Naphthalene	27.83	128	350633	22.07	ug/l	100
90)	1,2,3-Trichlorobenzene	28.50	180	146034	22.91	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC498.D Vial: 16
Acq On : 23 Mar 2006 10:18 pm Operator: CGM
Sample : VO67C2313 Inst : TO67
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:15 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



3/24/06

2061

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC488.D Vial: 6
Acq On : 23 Mar 2006 4:23 pm Operator: CGM
Sample : VO67C235 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:13 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:12:51 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2430846	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.71	117	2219848	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	796276	50.00	ug/l	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.68	65	452843	42.93	ug/l	0.00
Spiked Amount 50.000			Recovery = 85.86%			
49) Toluene-d8	12.67	98	1962861	40.08	ug/l	0.00
Spiked Amount 50.000			Recovery = 80.16%			
70) 4-Bromofluorobenzene	18.47	95	705201	41.65	ug/l	0.00
Spiked Amount 50.000			Recovery = 83.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.53	85	603119	50.23	ug/l	100
3) Chloromethane	4.02	50	494781	49.05	ug/l	100
4) Vinyl chloride	4.17	62	339589	43.07	ug/l	100
5) Bromomethane	4.90	94	383682	41.72	ug/l	100
6) Chloroethane	5.00	64	275799	49.19	ug/l	100
7) Trichlorofluoromethane	5.37	101	600708	49.43	ug/l	100
9) Acrolein	5.94	56	307739	209.89	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	453706	50.04	ug/l	100
11) Acetone	6.01	43	574639	209.43	ug/l	100
12) 1,1-Dichloroethene	6.24	61	935988	51.37	ug/l	100
13) tert-Butyl alcohol	6.27	59	261478	281.98	ug/l	100
16) Iodomethane	6.70	142	661573	56.25	ug/l	100
17) Methylene chloride	6.86	49	1037070	48.06	ug/l	100
18) Carbon disulfide	7.00	76	2418030	52.57	ug/l	100
19) Acrylonitrile	6.98	53	803552	219.55	ug/l	100
20) tert-Butyl methyl ether (M	7.00	73	1254295	52.15	ug/l	100
21) trans-1,2-Dichloroethene	7.24	61	991024	53.22	ug/l	100
22) Isopropyl ether (DIPE)	7.53	45	2209746	52.35	ug/l	100
23) 1,1-Dichloroethane	7.77	63	1251275	52.62	ug/l	100
24) Vinyl acetate	7.68	43	1254076	55.06	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	1607267	51.83	ug/l	100
26) 2-Butanone	8.23	43	1190763	216.51	ug/l	100
27) 2,2-Dichloropropane	8.49	77	777434	52.80	ug/l	100
28) cis-1,2-Dichloroethene	8.56	61	1143321	53.67	ug/l	100
30) Chloroform	8.75	83	1199777	51.86	ug/l	100
31) Bromochloromethane	8.99	49	679309	52.73	ug/l	100
32) 1,1,1-Trichloroethane	9.29	97	854101	51.61	ug/l	100
34) tert-Amyl methyl ether (TA	9.54	73	1694671	51.93	ug/l	100
37) 1,1-Dichloropropene	9.48	77	325368	51.38	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC488.D Vial: 6
Acq On : 23 Mar 2006 4:23 pm Operator: CGM
Sample : VO67C235 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:13 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:12:51 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Carbon tetrachloride	9.66	119	757148	51.04	ug/l	100
39)	1,2-Dichloroethane	9.81	62	720071	51.93	ug/l	100
40)	Benzene	9.87	78	3079313	50.70	ug/l	100
41)	Trichloroethene	10.72	130	836931	49.99	ug/l	100
43)	1,2-Dichloropropane	10.97	63	851123	51.87	ug/l	100
44)	Bromodichloromethane	11.36	83	914984	51.21	ug/l	100
45)	Dibromomethane	11.50	93	520534	52.47	ug/l	100
46)	2-Chloroethyl vinyl ether	11.67	63	130086	52.76	ug/l	100
47)	4-Methyl-2-pentanone	11.72	43	2702279	213.45	ug/l	100
48)	cis-1,3-Dichloropropene	12.20	75	1089143	52.02	ug/l	100
50)	Toluene	12.82	91	2967442	50.75	ug/l	100
51)	Ethyl methacrylate	12.88	69	769038	53.35	ug/l	100
52)	trans-1,3-Dichloropropene	13.04	75	791262	52.45	ug/l	100
53)	1,1,2-Trichloroethane	13.39	97	633586	51.64	ug/l	100
54)	2-Hexanone	13.25	43	1684628	198.47	ug/l	100
55)	1,3-Dichloropropane	13.86	76	1067311	51.35	ug/l	100
56)	Tetrachloroethene	14.09	164	582199	50.32	ug/l	100
57)	Dibromochloromethane	14.52	129	704525	51.32	ug/l	100
58)	1,2-Dibromoethane	14.94	107	714274	52.66	ug/l	100
59)	1-Chlorohexane	15.06	91	1172308	52.19	ug/l	100
60)	Chlorobenzene	15.80	112	2038174	50.54	ug/l	100
61)	1,1,1,2-Tetrachloroethane	15.84	131	641775	50.94	ug/l	100
62)	Ethylbenzene	15.83	91	3277545	51.94	ug/l	100
63)	m-Xylene & p-Xylene	15.99	91	4848003	102.43	ug/l	100
64)	o-Xylene	17.01	91	2526275	51.92	ug/l	100
65)	Styrene	17.08	104	2072482	52.75	ug/l	100
67)	Bromoform	17.99	173	415140	51.35	ug/l	100
68)	Isopropylbenzene	17.81	105	2870058	50.61	ug/l	100
69)	1,1,2,2-Tetrachloroethane	18.21	83	984198	51.83	ug/l	100
71)	1,2,3-Trichloropropane	18.59	61	167869	53.07	ug/l	100
72)	trans-1,4-Dichloro-2-buten	18.69	53	86067	53.22	ug/l	100
73)	n-Propylbenzene	18.78	91	3943910	52.45	ug/l	100
74)	Bromobenzene	19.02	156	718067	48.73	ug/l	100
75)	2-Chlorotoluene	19.30	91	2403297	50.98	ug/l	100
76)	1,3,5-Trimethylbenzene	19.17	105	2368606	51.42	ug/l	100
77)	4-Chlorotoluene	19.40	91	1977516	48.83	ug/l	100
78)	tert-Butylbenzene	20.07	119	2102034	51.79	ug/l	100
79)	1,2,4-Trimethylbenzene	20.18	105	2321978	52.40	ug/l	100
80)	sec-Butylbenzene	20.61	105	3410337	53.27	ug/l	100
81)	p-Isopropyltoluene	20.95	119	2245085	53.45	ug/l	100
82)	1,3-Dichlorobenzene	21.31	146	1350706	49.69	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC488.D Vial: 6
Acq On : 23 Mar 2006 4:23 pm Operator: CGM
Sample : VO67C235 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:13 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:12:51 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,4-Dichlorobenzene	21.58	146	1318413	49.32	ug/l	100
84)	n-Butylbenzene	22.03	91	2057315	53.61	ug/l	100
85)	1,2-Dichlorobenzene	22.58	146	1209724	49.34	ug/l	100
86)	1,2-Dibromo-3-chloropropan	24.66	157	115522	52.98	ug/l	100
87)	1,2,4-Trichlorobenzene	27.08	180	464092	49.57	ug/l	100
88)	Hexachlorobutadiene	27.43	225	248312	50.10	ug/l	100
89)	Naphthalene	27.83	128	909440	47.48	ug/l	100
90)	1,2,3-Trichlorobenzene	28.51	180	380228	49.83	ug/l	100

(#) = qualifier out of range (m) = manual integration

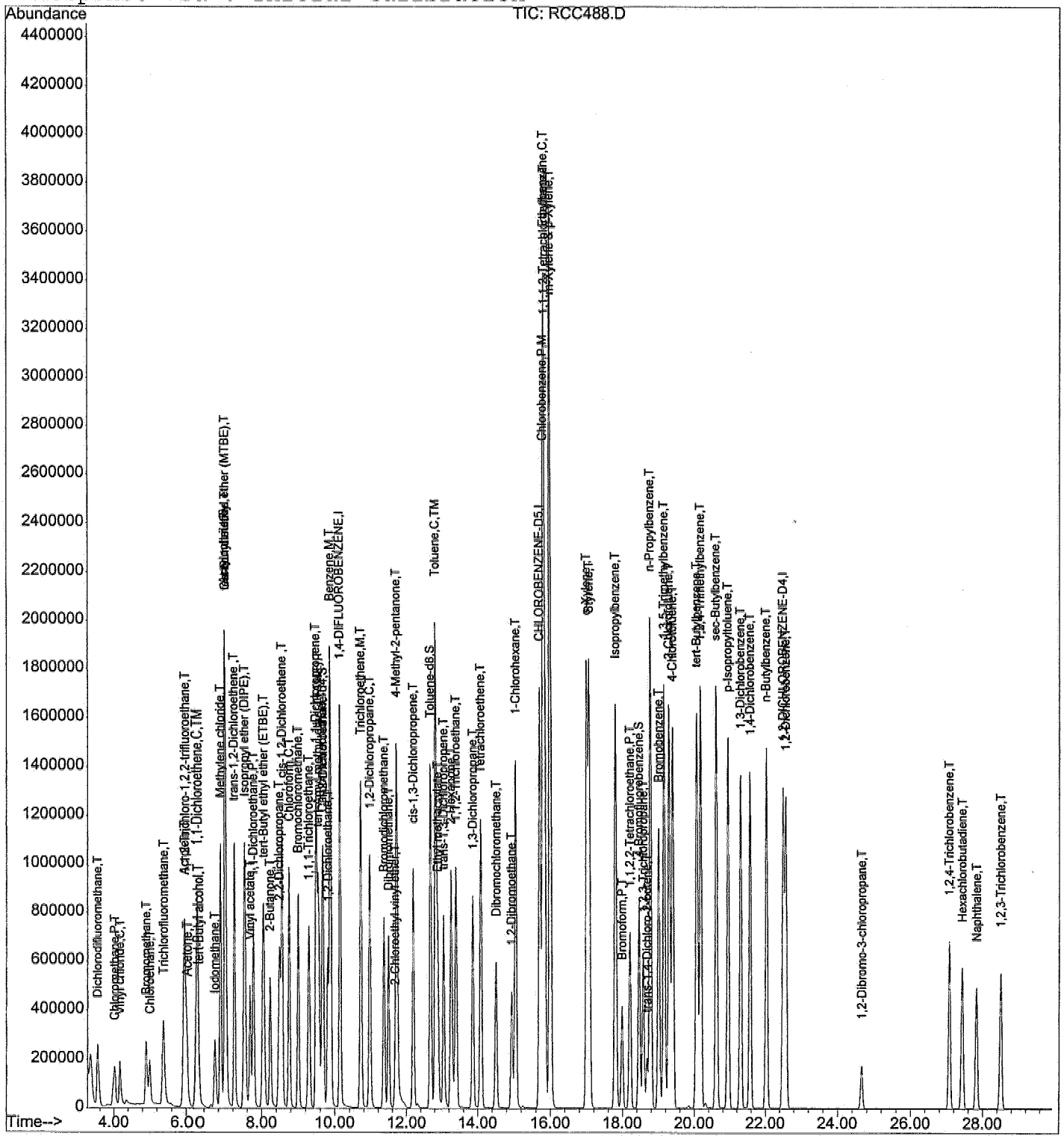
3/28/06

2064

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC488.D Vial: 6
Acq On : 23 Mar 2006 4:23 pm Operator: CGM
Sample : VO67C235 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:13 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



3/28/06

2065

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC489.D Vial: 7
Acq On : 23 Mar 2006 4:58 pm Operator: CGM
Sample : VO67C236 Inst : TO67
Misc : 80ppb 8260/320ppb Ket-AA/400ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:16:05 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2586517	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.71	117	2307183	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	852997	50.00	ug/l	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	935029	83.51	ug/l	0.01
Spiked Amount 50.000			Recovery = 167.02%			
49) Toluene-d8	12.68	98	4179003	81.67	ug/l	0.01
Spiked Amount 50.000			Recovery = 163.34%			
70) 4-Bromofluorobenzene	18.46	95	1499835	72.38	ug/l	0.00
Spiked Amount 50.000			Recovery = 144.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.54	85	1057412	83.10	ug/l	99
3) Chloromethane	4.03	50	898672	87.48	ug/l	98
4) Vinyl chloride	4.16	62	488645	48.65	ug/l	100
5) Bromomethane	4.91	94	666759	56.31	ug/l	100
6) Chloroethane	5.01	64	491739	81.76	ug/l	100
7) Trichlorofluoromethane	5.38	101	1060882	82.41	ug/l	100
9) Acrolein	5.95	56	515388	337.83	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	716685	72.47	ug/l	100
11) Acetone	6.01	43	920429	305.00	ug/l	99
12) 1,1-Dichloroethene	6.23	61	1511026	76.47	ug/l	100
13) tert-Butyl alcohol	6.26	59	398232	412.45	ug/l	99
16) Iodomethane	6.71	142	1289789	175.88	ug/l	100
17) Methylene chloride	6.86	49	1620190	51.51	ug/l	100
18) Carbon disulfide	6.99	76	3731058	74.68	ug/l	100
19) Acrylonitrile	6.98	53	1241273	308.75	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	1967805	76.10	ug/l	100
21) trans-1,2-Dichloroethene	7.25	61	1568636	78.66	ug/l	99
22) Isopropyl ether (DIPE)	7.53	45	3565757	79.48	ug/l	99
23) 1,1-Dichloroethane	7.78	63	2010911	78.04	ug/l	100
24) Vinyl acetate	7.68	43	2061932	90.18	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	2615173	79.79	ug/l	100
26) 2-Butanone	8.24	43	1888230	321.91	ug/l	100
27) 2,2-Dichloropropane	8.50	77	1237748	79.74	ug/l	99
28) cis-1,2-Dichloroethene	8.56	61	1635100	71.17	ug/l	91
30) Chloroform	8.75	83	1926225	77.74	ug/l	99
31) Bromochloromethane	9.00	49	1087467	78.65	ug/l	98
32) 1,1,1-Trichloroethane	9.30	97	1368068	77.47	ug/l	99
34) tert-Amyl methyl ether (TA	9.56	73	2758879	80.12	ug/l	99
37) 1,1-Dichloropropene	9.50	77	513159	76.24	ug/l	99

(#) = qualifier out of range (m) = manual integration

3/28/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC489.D Vial: 7
Acq On : 23 Mar 2006 4:58 pm Operator: CGM
Sample : VO67C236 Inst : TO67
Misc : 80ppb 8260/320ppb Ket-AA/400ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:16:05 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Carbon tetrachloride	9.66	119	1192132	76.94	ug/l	100
39)	1,2-Dichloroethane	9.81	62	1149328	79.03	ug/l	100
40)	Benzene	9.88	78	4852148	74.42	ug/l	100
41)	Trichloroethene	10.72	130	1343521	75.98	ug/l	99
43)	1,2-Dichloropropane	10.97	63	1365669	79.24	ug/l	99
44)	Bromodichloromethane	11.36	83	1492285	81.67	ug/l	100
45)	Dibromomethane	11.49	93	823749	79.45	ug/l	99
46)	2-Chloroethyl vinyl ether	11.69	63	223393	97.77	ug/l	98
47)	4-Methyl-2-pentanone	11.73	43	4361004	333.97	ug/l	100
48)	cis-1,3-Dichloropropene	12.19	75	1787259	84.92	ug/l	99
50)	Toluene	12.83	91	4747318	76.49	ug/l	100
51)	Ethyl methacrylate	12.88	69	1267980	95.94	ug/l	100
52)	trans-1,3-Dichloropropene	13.06	75	1308291	87.58	ug/l	99
53)	1,1,2-Trichloroethane	13.40	97	1008268	78.44	ug/l	100
54)	2-Hexanone	13.25	43	2805986	315.03	ug/l	99
55)	1,3-Dichloropropane	13.86	76	1683332	77.36	ug/l	100
56)	Tetrachloroethene	14.10	164	919559	75.26	ug/l	100
57)	Dibromochloromethane	14.52	129	1168509	85.74	ug/l	100
58)	1,2-Dibromoethane	14.95	107	1145462	82.31	ug/l	100
59)	1-Chlorohexane	15.05	91	1926507	85.60	ug/l	99
60)	Chlorobenzene	15.80	112	3278335	76.83	ug/l	99
61)	1,1,1,2-Tetrachloroethane	15.84	131	1045672	79.90	ug/l	99
62)	Ethylbenzene	15.84	91	5257415	78.99	ug/l	100
63)	m-Xylene & p-Xylene	16.00	91	7892343	160.47	ug/l	100
64)	o-Xylene	17.02	91	4055233	81.27	ug/l	100
65)	Styrene	17.08	104	3435676	88.64	ug/l	100
67)	Bromoform	17.99	173	680695	78.65	ug/l	99
68)	Isopropylbenzene	17.81	105	4610807	73.54	ug/l	100
69)	1,1,2,2-Tetrachloroethane	18.21	83	1534380	71.43	ug/l	100
71)	1,2,3-Trichloropropane	18.58	61	258493	71.82	ug/l	100
72)	trans-1,4-Dichloro-2-buten	18.69	53	144942	97.95	ug/l	99
73)	n-Propylbenzene	18.77	91	6480575	79.83	ug/l	100
74)	Bromobenzene	19.01	156	1184516	72.09	ug/l	99
75)	2-Chlorotoluene	19.31	91	3810518	71.15	ug/l	100
76)	1,3,5-Trimethylbenzene	19.16	105	3925674	78.85	ug/l	100
77)	4-Chlorotoluene	19.40	91	3356221	75.82	ug/l	100
78)	tert-Butylbenzene	20.07	119	3404539	77.94	ug/l	99
79)	1,2,4-Trimethylbenzene	20.18	105	3813626	81.11	ug/l	99
80)	sec-Butylbenzene	20.62	105	5638337	85.24	ug/l	99
81)	p-Isopropyltoluene	20.95	119	3805169	92.02	ug/l	100
82)	1,3-Dichlorobenzene	21.31	146	2203869	74.44	ug/l	100

(#) = qualifier out of range (m) = manual integration

3/24/06

2067

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC489.D Vial: 7
Acq On : 23 Mar 2006 4:58 pm Operator: CGM
Sample : VO67C236 Inst : TO67
Misc : 80ppb 8260/320ppb Ket-AA/400ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:16:05 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,4-Dichlorobenzene	21.58	146	2193134	75.96	ug/l	99
84)	n-Butylbenzene	22.02	91	3716828	107.51	ug/l	100
85)	1,2-Dichlorobenzene	22.57	146	1981178	74.02	ug/l	99
86)	1,2-Dibromo-3-chloropropan	24.66	157	191237	95.85	ug/l	99
87)	1,2,4-Trichlorobenzene	27.09	180	831202	98.24	ug/l	99
88)	Hexachlorobutadiene	27.43	225	426421	96.36	ug/l	100
89)	Naphthalene	27.83	128	1734615	100.88	ug/l	100
90)	1,2,3-Trichlorobenzene	28.52	180	676337	97.23	ug/l	100

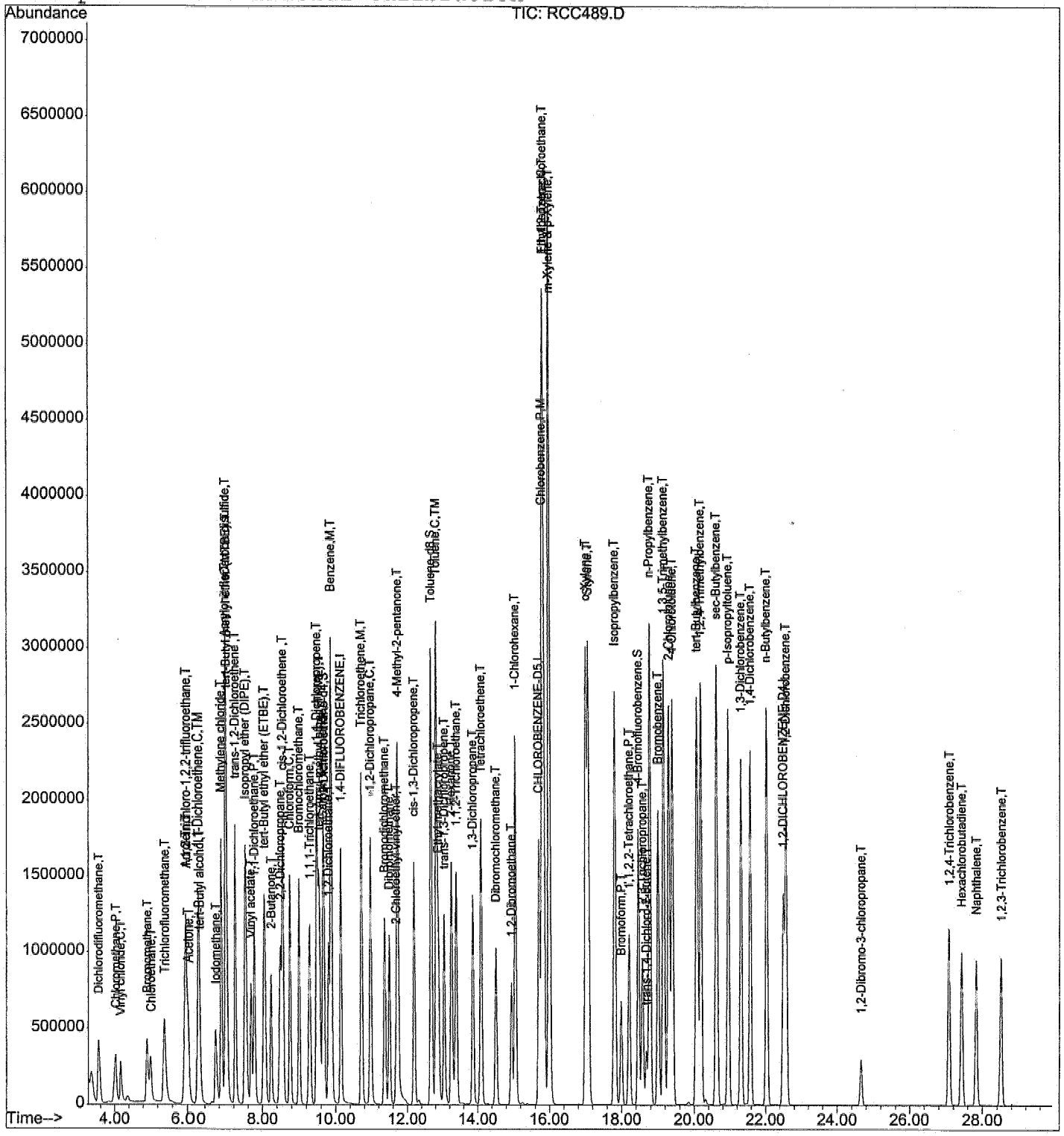
(#) = qualifier out of range (m) = manual integration
RCC489.D VO67C23.M Fri Mar 24 11:25:16 2006 3/28/06 Page 3

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Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC489.D Vial: 7
Acq On : 23 Mar 2006 4:58 pm Operator: CGM
Sample : VO67C236 Inst : TO67
Misc : 80ppb 8260/320ppb Ket-AA/400ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



3/28/06

2059

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC490.D Vial: 8
Acq On : 23 Mar 2006 5:34 pm Operator: CGM
Sample : VO67C237 Inst : TO67
Misc : 100ppb 8260/400ppb Ket-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:16:28 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2624273	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.72	117	2389621	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	901820	50.00	ug/l	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	1193962	104.34	ug/l	0.00
Spiked Amount 50.000			Recovery =	208.68%		
49) Toluene-d8	12.68	98	5419429	101.90	ug/l	0.00
Spiked Amount 50.000			Recovery =	203.80%		
70) 4-Bromofluorobenzene	18.46	95	1926063	89.33	ug/l	0.00
Spiked Amount 50.000			Recovery =	178.66%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.54	85	1339175	103.06	ug/l	99
3) Chloromethane	4.03	50	1156430	109.25	ug/l	99
4) Vinyl chloride	4.16	62	596321	62.60	ug/l	99
5) Bromomethane	4.91	94	892482	78.15	ug/l	100
6) Chloroethane	5.00	64	602787	98.42	ug/l	99
7) Trichlorofluoromethane	5.38	101	1349018	102.77	ug/l	99
9) Acrolein	5.95	56	685455	438.76	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	932355	94.40	ug/l	99
11) Acetone	6.01	43	1148249	377.97	ug/l	99
12) 1,1-Dichloroethene	6.23	61	1867373	93.83	ug/l	99
13) tert-Butyl alcohol	6.26	59	495049	502.74	ug/l	99
16) Iodomethane	6.71	142	1673769	187.50	ug/l	100
17) Methylene chloride	6.86	49	2018691	67.25	ug/l	99
18) Carbon disulfide	6.99	76	4797121	95.70	ug/l	100
19) Acrylonitrile	6.98	53	1577567	389.04	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	2567438	98.66	ug/l	100
21) trans-1,2-Dichloroethene	7.24	61	1964983	97.38	ug/l	99
22) Isopropyl ether (DIPE)	7.53	45	4528512	99.60	ug/l	100
23) 1,1-Dichloroethane	7.78	63	2522765	96.89	ug/l	100
24) Vinyl acetate	7.68	43	2645198	111.66	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	3369153	101.36	ug/l	99
26) 2-Butanone	8.24	43	2387057	400.69	ug/l	100
27) 2,2-Dichloropropane	8.50	77	1576466	100.15	ug/l	99
28) cis-1,2-Dichloroethene	8.55	61	2321385	101.45	ug/l	100
30) Chloroform	8.76	83	2420304	96.73	ug/l	99
31) Bromochloromethane	9.00	49	1384112	98.95	ug/l	97
32) 1,1,1-Trichloroethane	9.30	97	1717808	96.38	ug/l	99
34) tert-Amyl methyl ether (TA	9.55	73	3491632	99.92	ug/l	99
37) 1,1-Dichloropropene	9.49	77	654487	94.62	ug/l	99

(#) = qualifier out of range (m) = manual integration
RCC490.D VO67C23.M Fri Mar 24 11:25:27 2006 3/24/06 Page 1

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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC490.D Vial: 8
Acq On : 23 Mar 2006 5:34 pm Operator: CGM
Sample : VO67C237 Inst : TO67
Misc : 100ppb 8260/400ppb Ket-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:16:28 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	Carbon tetrachloride	9.66	119	1548202	97.09 ug/l	100
39)	1,2-Dichloroethane	9.81	62	1454690	96.77 ug/l	100
40)	Benzene	9.88	78	6103434	91.45 ug/l	100
41)	Trichloroethene	10.71	130	1722689	94.85 ug/l	99
43)	1,2-Dichloropropane	10.97	63	1737495	97.49 ug/l	99
44)	Bromodichloromethane	11.36	83	1909455	100.55 ug/l	100
45)	Dibromomethane	11.49	93	1045142	97.44 ug/l	98
46)	2-Chloroethyl vinyl ether	11.68	63	288025	117.37 ug/l	99
47)	4-Methyl-2-pentanone	11.73	43	5576236	409.32 ug/l	99
48)	cis-1,3-Dichloropropene	12.19	75	2284254	103.72 ug/l	99
50)	Toluene	12.83	91	6056908	94.92 ug/l	100
51)	Ethyl methacrylate	12.89	69	1650453	116.70 ug/l	99
52)	trans-1,3-Dichloropropene	13.05	75	1691601	107.63 ug/l	99
53)	1,1,2-Trichloroethane	13.40	97	1296560	97.70 ug/l	100
54)	2-Hexanone	13.25	43	3670467	398.90 ug/l	100
55)	1,3-Dichloropropane	13.86	76	2224335	99.24 ug/l	100
56)	Tetrachloroethene	14.10	164	1172623	93.58 ug/l	100
57)	Dibromochloromethane	14.51	129	1512511	105.89 ug/l	100
58)	1,2-Dibromoethane	14.94	107	1468771	101.41 ug/l	100
59)	1-Chlorohexane	15.05	91	2466797	104.60 ug/l	98
60)	Chlorobenzene	15.79	112	4222515	96.18 ug/l	98
61)	1,1,1,2-Tetrachloroethane	15.84	131	1335305	98.53 ug/l	99
62)	Ethylbenzene	15.84	91	6607443	96.05 ug/l	100
63)	m-Xylene & p-Xylene	16.00	91	10031899	196.84 ug/l	99
64)	o-Xylene	17.02	91	5263456	101.58 ug/l	100
65)	Styrene	17.07	104	4383089	107.25 ug/l	100
67)	Bromoform	17.98	173	886072	97.11 ug/l	99
68)	Isopropylbenzene	17.80	105	5983672	91.50 ug/l	100
69)	1,1,2,2-Tetrachloroethane	18.21	83	1983412	88.93 ug/l	100
71)	1,2,3-Trichloropropane	18.58	61	330624	88.40 ug/l	98
72)	trans-1,4-Dichloro-2-buten	18.68	53	188258	116.00 ug/l	98
73)	n-Propylbenzene	18.79	91	8293143	96.67 ug/l	100
74)	Bromobenzene	19.01	156	1512723	88.54 ug/l	99
75)	2-Chlorotoluene	19.31	91	4797456	86.32 ug/l	100
76)	1,3,5-Trimethylbenzene	19.16	105	4980040	94.84 ug/l	100
77)	4-Chlorotoluene	19.40	91	4389813	94.63 ug/l	100
78)	tert-Butylbenzene	20.07	119	4412464	95.96 ug/l	99
79)	1,2,4-Trimethylbenzene	20.19	105	4934216	99.04 ug/l	99
80)	sec-Butylbenzene	20.62	105	7225452	102.20 ug/l	100
81)	p-Isopropyltoluene	20.95	119	4989260	111.33 ug/l	100
82)	1,3-Dichlorobenzene	21.30	146	2918891	94.34 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC490.D Vial: 8
Acq On : 23 Mar 2006 5:34 pm Operator: CGM
Sample : VO67C237 Inst : TO67
Misc : 100ppb 8260/400ppb Ket-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:16:28 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,4-Dichlorobenzene	21.57	146	2864732	94.65	ug/l	100
84)	n-Butylbenzene	22.03	91	4855335	125.64	ug/l	100
85)	1,2-Dichlorobenzene	22.57	146	2589026	92.65	ug/l	99
86)	1,2-Dibromo-3-chloropropan	24.66	157	251295	115.33	ug/l	98
87)	1,2,4-Trichlorobenzene	27.08	180	1099424	118.41	ug/l	99
88)	Hexachlorobutadiene	27.43	225	568355	117.47	ug/l	100
89)	Naphthalene	27.83	128	2354236	124.11	ug/l	100
90)	1,2,3-Trichlorobenzene	28.51	180	902911	118.53	ug/l	100

(#) = qualifier out of range (m) = manual integration

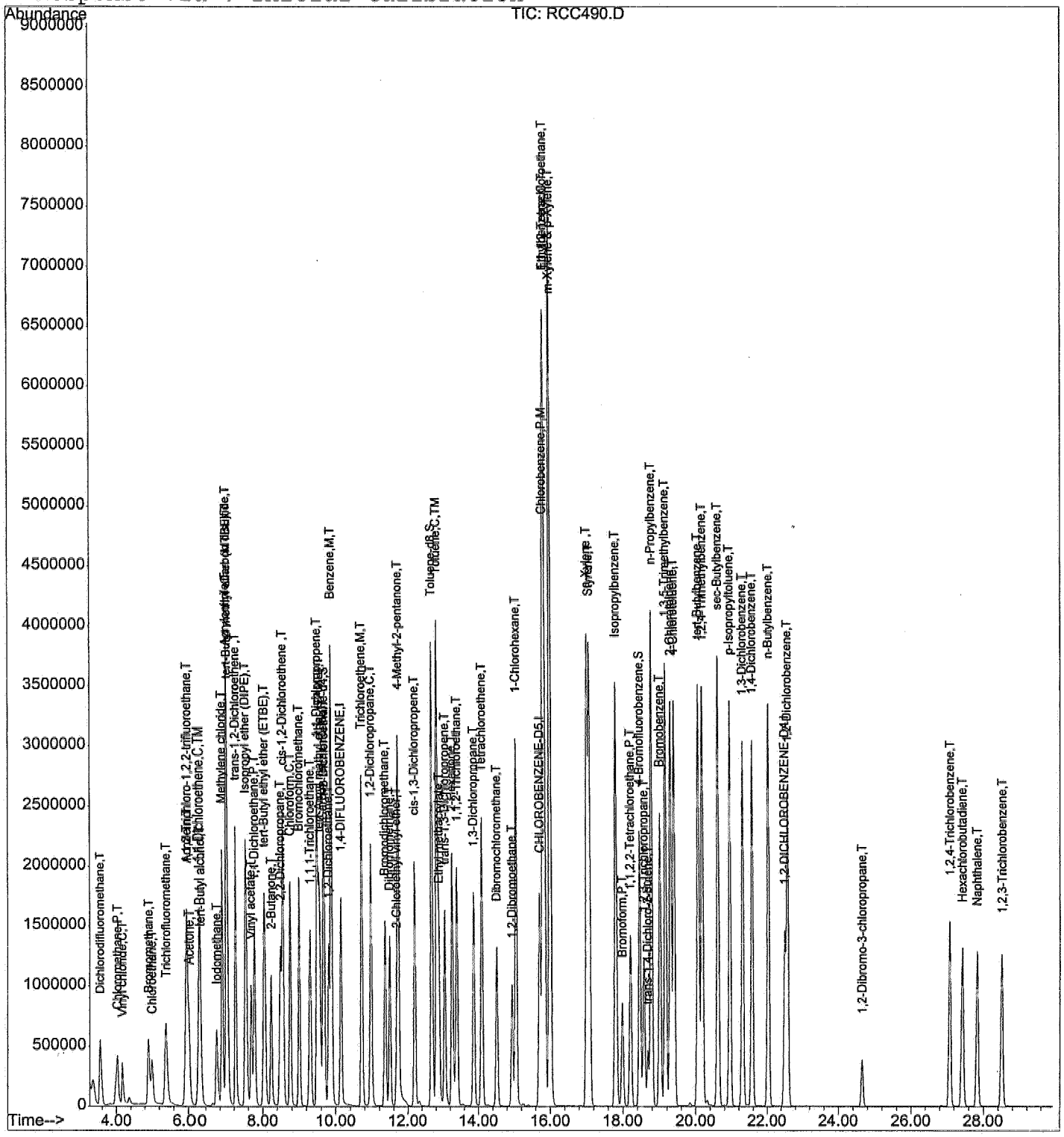
3/28/06

2072

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC490.D Vial: 8
Acq On : 23 Mar 2006 5:34 pm Operator: CGM
Sample : VO67C237 Inst : TO67
Misc : 100ppb 8260/400ppb Ket-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



3/27/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC491.D Vial: 9
Acq On : 23 Mar 2006 6:09 pm Operator: CGM
Sample : VO67C238 Inst : TO67
Misc : 200ppb 8260/800ppb Ket-AA/1000ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:16:44 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2655683	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.71	117	2446837	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	939047	50.00	ug/l	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	2308547	198.13	ug/l	0.01
Spiked Amount 50.000			Recovery =	396.26%		
49) Toluene-d8	12.67	98	10516920	192.61	ug/l	0.00
Spiked Amount 50.000			Recovery =	385.22%		
70) 4-Bromofluorobenzene	18.46	95	3793959	171.61	ug/l	0.00
Spiked Amount 50.000			Recovery =	343.22%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.54	85	2598439	196.75	ug/l	100
3) Chloromethane	4.02	50	2330097	214.69	ug/l	99
4) Vinyl chloride	4.17	62	1007715	110.44	ug/l	100
5) Bromomethane	4.90	94	1703068	152.12	ug/l	99
6) Chloroethane	5.00	64	1209609	195.61	ug/l	99
7) Trichlorofluoromethane	5.39	101	2648427	198.59	ug/l	99
9) Acrolein	5.94	56	1330487	830.09	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	1977596	199.46	ug/l	100
11) Acetone	6.01	43	2295073	752.45	ug/l	100
12) 1,1-Dichloroethene	6.24	61	4034938	202.13	ug/l	99
13) tert-Butyl alcohol	6.27	59	1137072	1140.19	ug/l	97
16) Iodomethane	6.70	142	3823452	376.23	ug/l	99
17) Methylene chloride	6.86	49	4114678	142.09	ug/l	98
18) Carbon disulfide	7.00	76	10179510	201.92	ug/l	100
19) Acrylonitrile	6.98	53	3072461	751.67	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	5476010	208.34	ug/l	99
21) trans-1,2-Dichloroethene	7.25	61	4193797	206.16	ug/l	99
22) Isopropyl ether (DIPE)	7.53	45	9646682	209.78	ug/l	100
23) 1,1-Dichloroethane	7.77	63	5174614	197.26	ug/l	100
24) Vinyl acetate	7.68	43	5622411	230.68	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	7074657	209.92	ug/l	99
26) 2-Butanone	8.23	43	4892331	811.32	ug/l	100
27) 2,2-Dichloropropane	8.50	77	3363957	211.14	ug/l	98
28) cis-1,2-Dichloroethene	8.56	61	4845717	208.83	ug/l	98
30) Chloroform	8.75	83	5209243	206.70	ug/l	99
31) Bromochloromethane	9.01	49	2842469	201.10	ug/l	94
32) 1,1,1-Trichloroethane	9.29	97	3723078	207.50	ug/l	98
34) tert-Amyl methyl ether (TA	9.56	73	7569783	214.08	ug/l	98
37) 1,1-Dichloropropene	9.48	77	1374567	195.59	ug/l	98

(#) = qualifier out of range (m) = manual integration

3/28/06

2074

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC491.D Vial: 9
Acq On : 23 Mar 2006 6:09 pm Operator: CGM
Sample : VO67C238 Inst : TO67
Misc : 200ppb 8260/800ppb Ket-AA/1000ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:16:44 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	Carbon tetrachloride	9.66	119	3337343	205.25 ug/l	100
39)	1,2-Dichloroethane	9.81	62	3097600	202.17 ug/l	100
40)	Benzene	9.89	78	13204886	195.61 ug/l	99
41)	Trichloroethene	10.72	130	3700727	200.48 ug/l	98
43)	1,2-Dichloropropane	10.97	63	3624093	199.30 ug/l	98
44)	Bromodichloromethane	11.36	83	4123300	211.88 ug/l	100
45)	Dibromomethane	11.49	93	2235595	204.30 ug/l	97
46)	2-Chloroethyl vinyl ether	11.67	63	683764	265.52 ug/l	99
47)	4-Methyl-2-pentanone	11.72	43	11281479	806.07 ug/l	99
48)	cis-1,3-Dichloropropene	12.19	75	4951399	218.41 ug/l	99
50)	Toluene	12.82	91	12844792	198.02 ug/l	99
51)	Ethyl methacrylate	12.88	69	3540269	238.77 ug/l	98
52)	trans-1,3-Dichloropropene	13.04	75	3664129	225.23 ug/l	99
53)	1,1,2-Trichloroethane	13.39	97	2752656	203.25 ug/l	99
54)	2-Hexanone	13.25	43	7495671	795.88 ug/l	100
55)	1,3-Dichloropropane	13.86	76	4683875	204.31 ug/l	100
56)	Tetrachloroethene	14.10	164	2568105	202.01 ug/l	99
57)	Dibromochloromethane	14.52	129	3326181	225.52 ug/l	100
58)	1,2-Dibromoethane	14.95	107	3098567	208.51 ug/l	100
59)	1-Chlorohexane	15.05	91	5272147	216.90 ug/l	97
60)	Chlorobenzene	15.80	112	8897457	199.01 ug/l	96
61)	1,1,1,2-Tetrachloroethane	15.84	131	2857677	206.36 ug/l	99
62)	Ethylbenzene	15.84	91	13914655	198.67 ug/l	100
63)	m-Xylene & p-Xylene	15.99	91	21160286	406.40 ug/l	99
64)	o-Xylene	17.02	91	11239872	211.37 ug/l	100
65)	Styrene	17.08	104	9554304	225.98 ug/l	99
67)	Bromoform	17.99	173	1977464	208.99 ug/l	99
68)	Isopropylbenzene	17.81	105	13130542	195.20 ug/l	100
69)	1,1,2,2-Tetrachloroethane	18.21	83	4251847	186.02 ug/l	100
71)	1,2,3-Trichloropropane	18.58	61	702333	183.37 ug/l	97
72)	trans-1,4-Dichloro-2-buten	18.69	53	430787	249.22 ug/l	95
73)	n-Propylbenzene	18.78	91	18087034	203.44 ug/l	100
74)	Bromobenzene	19.02	156	3398976	194.24 ug/l	98
75)	2-Chlorotoluene	19.30	91	10438163	183.95 ug/l	99
76)	1,3,5-Trimethylbenzene	19.16	105	10878201	200.43 ug/l	100
77)	4-Chlorotoluene	19.40	91	9462155	197.40 ug/l	100
78)	tert-Butylbenzene	20.07	119	9768782	205.20 ug/l	99
79)	1,2,4-Trimethylbenzene	20.18	105	10820970	208.87 ug/l	100
80)	sec-Butylbenzene	20.62	105	16275081	220.38 ug/l	100
81)	p-Isopropyltoluene	20.95	119	11206212	236.32 ug/l	99
82)	1,3-Dichlorobenzene	21.31	146	6472036	202.53 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC491.D Vial: 9
Acq On : 23 Mar 2006 6:09 pm Operator: CGM
Sample : VO67C238 Inst : TO67
Misc : 200ppb 8260/800ppb Ket-AA/1000ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

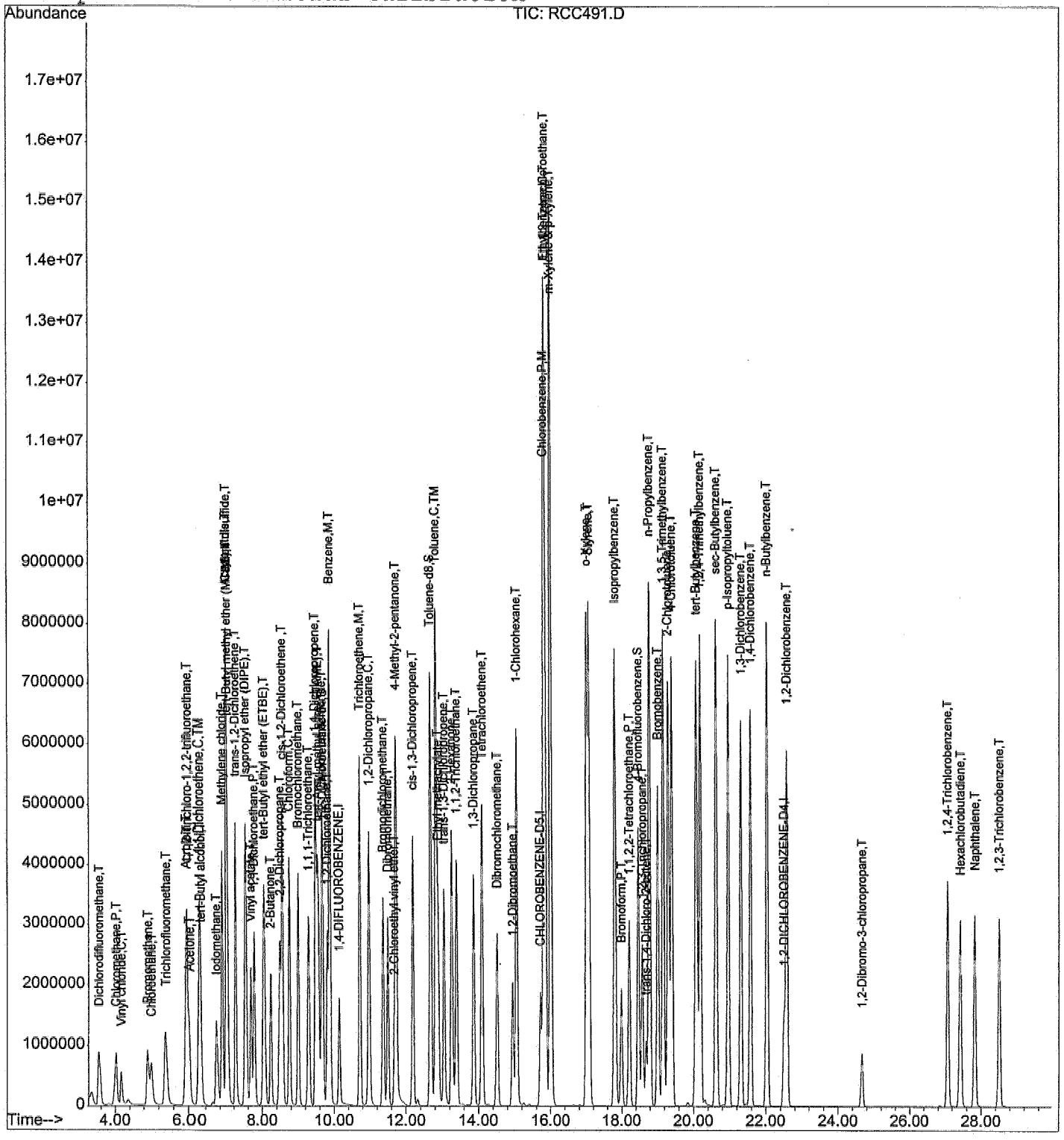
Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:16:44 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
83)	1,4-Dichlorobenzene	21.58	146	6469836	206.87 ug/l	99
84)	n-Butylbenzene	22.02	91	11368410	272.52 ug/l	99
85)	1,2-Dichlorobenzene	22.58	146	5876306	204.08 ug/l	98
86)	1,2-Dibromo-3-chloropropan	24.66	157	579640	250.00 ug/l	98
87)	1,2,4-Trichlorobenzene	27.07	180	2672374	269.33 ug/l	100
88)	Hexachlorobutadiene	27.43	225	1395058	270.17 ug/l	100
89)	Naphthalene	27.83	128	5836960	285.67 ug/l	100
90)	1,2,3-Trichlorobenzene	28.50	180	2213951	271.91 ug/l	99

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC491.D Vial: 9
Acq On : 23 Mar 2006 6:09 pm Operator: CGM
Sample : VO67C238 Inst : TO67
Misc : 200ppb 8260/800ppb Ket-AA/1000ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



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2077

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC492.D Vial: 10
Acq On : 23 Mar 2006 6:44 pm Operator: CGM
Sample : VO67C239 Inst : TO67
Misc : 300ppb 8260/1200ppb Ket-AA/1500ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:17 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:17:00 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2785705	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.71	117	2539648	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	968497	50.00	ug/l	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.68	65	3337797	273.42	ug/l	0.00
Spiked Amount 50.000			Recovery =	546.84%		
49) Toluene-d8	12.67	98	15894483	281.76	ug/l	0.00
Spiked Amount 50.000			Recovery =	563.52%		
70) 4-Bromofluorobenzene	18.46	95	5641683	251.89	ug/l	0.00
Spiked Amount 50.000			Recovery =	503.78%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.53	85	3971114	287.24	ug/l	100
3) Chloromethane	4.02	50	3635164	316.40	ug/l	99
4) Vinyl chloride	4.15	62	1456416	161.18	ug/l	100
5) Bromomethane	4.90	94	2710627	237.93	ug/l	100
6) Chloroethane	5.00	64	1823120	281.83	ug/l	99
7) Trichlorofluoromethane	5.39	101	4060689	290.53	ug/l	100
9) Acrolein	5.94	56	1929711	1142.38	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	3104420	298.59	ug/l	99
11) Acetone	6.03	43	3472996	1093.62	ug/l	99
12) 1,1-Dichloroethene	6.24	61	6056260	288.85	ug/l	98
13) tert-Butyl alcohol	6.28	59	1572995	1477.79	ug/l	96
16) Iodomethane	6.70	142	5829938	492.63	ug/l	99
17) Methylene chloride	6.86	49	6098031	208.29	ug/l	97
18) Carbon disulfide	7.00	76	15248367	288.00	ug/l	99
19) Acrylonitrile	6.98	53	4448587	1045.43	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	7898406	284.99	ug/l	98
21) trans-1,2-Dichloroethene	7.25	61	6210780	289.94	ug/l	97
22) Isopropyl ether (DIPE)	7.53	45	14133270	291.22	ug/l	100
23) 1,1-Dichloroethane	7.79	63	7653220	278.60	ug/l	99
24) Vinyl acetate	7.68	43	7936698	304.60	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	10581522	297.48	ug/l	99
26) 2-Butanone	8.25	43	7238778	1142.39	ug/l	100
27) 2,2-Dichloropropane	8.49	77	5165750	306.96	ug/l	97
28) cis-1,2-Dichloroethene	8.56	61	7181081	293.41	ug/l	97
30) Chloroform	8.75	83	7868200	296.40	ug/l	99
31) Bromochloromethane	8.99	49	4254818	286.77	ug/l	91
32) 1,1,1-Trichloroethane	9.29	97	5819295	307.74	ug/l	98
34) tert-Amyl methyl ether (TA	9.54	73	11169458	298.51	ug/l	97
37) 1,1-Dichloropropene	9.48	77	2100947	288.82	ug/l	97

(#) = qualifier out of range (m) = manual integration

3/28/06

2078

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC492.D Vial: 10
Acq On : 23 Mar 2006 6:44 pm Operator: CGM
Sample : VO67C239 Inst : TO67
Misc : 300ppb 8260/1200ppb Ket-AA/1500ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:17 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:17:00 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Carbon tetrachloride	9.66	119	5184186	306.17	ug/l	100
39)	1,2-Dichloroethane	9.81	62	4612998	289.69	ug/l	100
40)	Benzene	9.89	78	19917826	285.05	ug/l	98
41)	Trichloroethene	10.72	130	5714154	298.15	ug/l	97
43)	1,2-Dichloropropane	10.97	63	5411714	286.86	ug/l	98
44)	Bromodichloromethane	11.36	83	6349867	312.05	ug/l	100
45)	Dibromomethane	11.49	93	3309892	290.64	ug/l	96
46)	2-Chloroethyl vinyl ether	11.67	63	1095571	393.77	ug/l	98
47)	4-Methyl-2-pentanone	11.72	43	16841065	1158.23	ug/l	99
48)	cis-1,3-Dichloropropene	12.19	75	7551690	317.29	ug/l	98
50)	Toluene	12.82	91	19222431	285.87	ug/l	99
51)	Ethyl methacrylate	12.88	69	5215993	330.92	ug/l	98
52)	trans-1,3-Dichloropropene	13.04	75	5433197	316.77	ug/l	99
53)	1,1,2-Trichloroethane	13.39	97	4095173	290.73	ug/l	99
54)	2-Hexanone	13.25	43	11094914	1135.72	ug/l	100
55)	1,3-Dichloropropane	13.86	76	6936376	290.72	ug/l	99
56)	Tetrachloroethene	14.10	164	4029429	305.00	ug/l	98
57)	Dibromochloromethane	14.52	129	5081680	326.74	ug/l	100
58)	1,2-Dibromoethane	14.94	107	4684193	302.09	ug/l	100
59)	1-Chlorohexane	15.05	91	8198683	321.58	ug/l	96
60)	Chlorobenzene	15.80	112	13280884	286.38	ug/l	94
61)	1,1,1,2-Tetrachloroethane	15.84	131	4285992	297.01	ug/l	97
62)	Ethylbenzene	15.84	91	20590836	283.48	ug/l	100
63)	m-Xylene & p-Xylene	15.98	91	28312911	522.85	ug/l	83
64)	o-Xylene	17.02	91	16887118	303.80	ug/l	100
65)	Styrene	17.09	104	14332425	321.39	ug/l	98
67)	Bromoform	17.98	173	2997684	305.46	ug/l	99
68)	Isopropylbenzene	17.81	105	20228590	292.46	ug/l	99
69)	1,1,2,2-Tetrachloroethane	18.21	83	6280809	268.78	ug/l	100
71)	1,2,3-Trichloropropane	18.58	61	1005603	257.25	ug/l	96
72)	trans-1,4-Dichloro-2-buten	18.69	53	656003	356.99	ug/l	94
73)	n-Propylbenzene	18.79	91	26377184	287.04	ug/l	98
74)	Bromobenzene	19.01	156	5229316	290.79	ug/l	97
75)	2-Chlorotoluene	19.31	91	15762596	272.07	ug/l	99
76)	1,3,5-Trimethylbenzene	19.16	105	16899447	301.82	ug/l	100
77)	4-Chlorotoluene	19.40	91	14532203	294.43	ug/l	99
78)	tert-Butylbenzene	20.07	119	15066894	305.87	ug/l	98
79)	1,2,4-Trimethylbenzene	20.19	105	16572706	308.45	ug/l	99
80)	sec-Butylbenzene	20.62	105	25129408	325.79	ug/l	99
81)	p-Isopropyltoluene	20.95	119	17888800	357.66	ug/l	98
82)	1,3-Dichlorobenzene	21.31	146	10050044	304.45	ug/l	98

(#) = qualifier out of range (m) = manual integration

3/28/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC492.D Vial: 10
Acq On : 23 Mar 2006 6:44 pm Operator: CGM
Sample : VO67C239 Inst : TO67
Misc : 300ppb 8260/1200ppb Ket-AA/1500ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:17 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:17:00 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.57	146	10041797	309.99	ug/l	98
84) n-Butylbenzene	22.04	91	18090086	402.24	ug/l	99
85) 1,2-Dichlorobenzene	22.57	146	9070912	304.68	ug/l	97
86) 1,2-Dibromo-3-chloropropan	24.66	157	877382	355.79	ug/l	97
87) 1,2,4-Trichlorobenzene	27.09	180	4398915	412.00	ug/l	99
88) Hexachlorobutadiene	27.43	225	2390450	430.00	ug/l	100
89) Naphthalene	27.83	128	9267404	417.42	ug/l	100
90) 1,2,3-Trichlorobenzene	28.52	180	3595785	409.77	ug/l	99

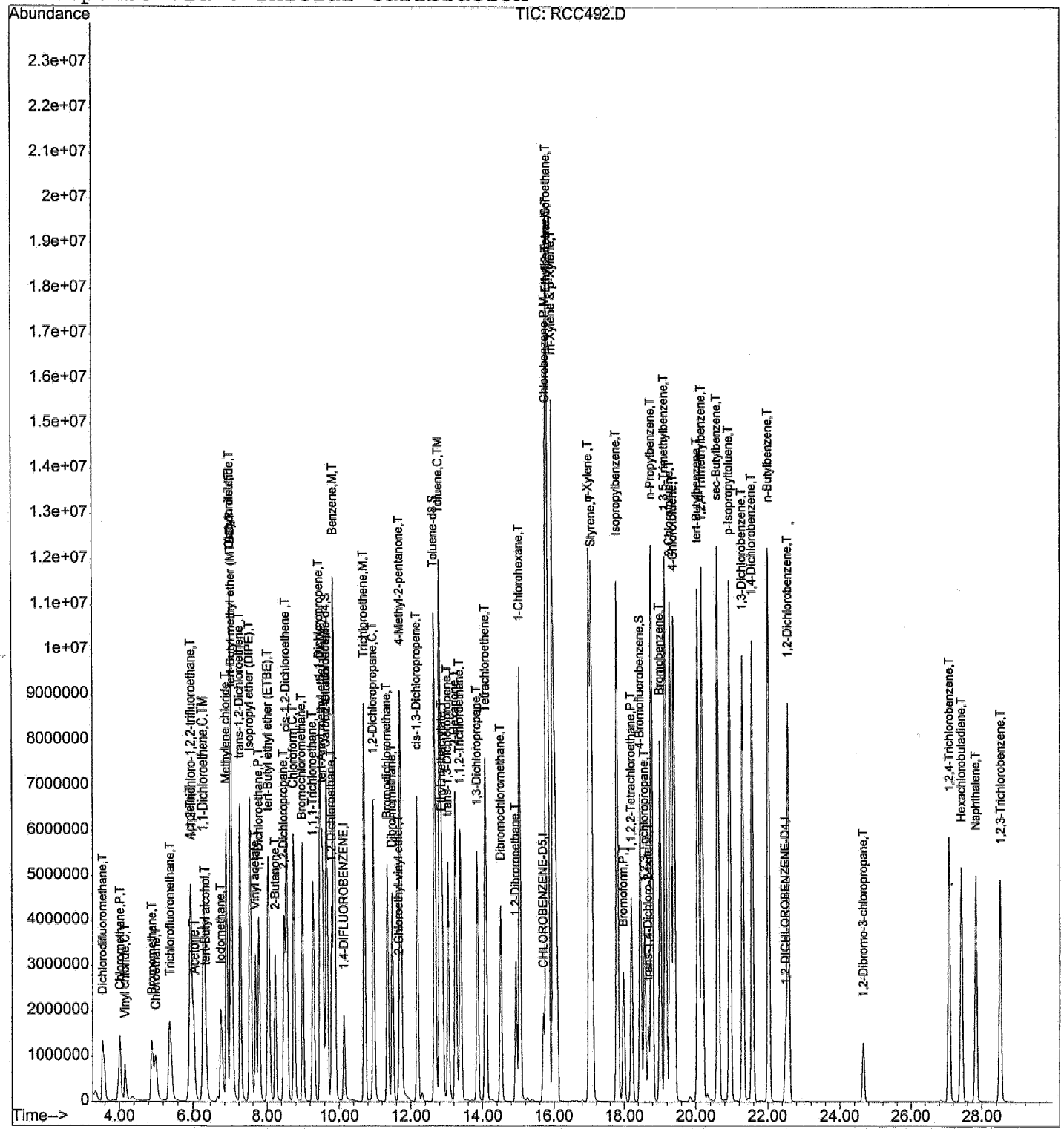
(#) = qualifier out of range (m) = manual integration
RCC492.D VO67C23.M Fri Mar 24 11:25:53 2006 ew 3/28/06 Page 3

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Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC492.D Vial: 10
Acq On : 23 Mar 2006 6:44 pm Operator: CGM
Sample : VO67C239 Inst : TO67
Misc : 300ppb 8260/1200ppb Ket-AA/1500ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:17 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



3/28/16

2081

SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
Acq On : 23 Mar 2006 10:53 pm Operator: CGM
Sample : IVO67C231 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006 * Not valid for compound # 72 -
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	112	0.00
2	T	Dichlorodifluoromethane	50.000	52.550	-5.1	117	0.01
3	P,T	Chloromethane	50.000	53.659	-7.3	123	0.01
4	C,T	Vinyl chloride	50.000	58.865	-17.7	134	0.00
5	T	Bromomethane	50.000	58.307	-16.6	140	0.00
6	T	Chloroethane	50.000	53.317	-6.6	121	0.00
7	T	Trichlorofluoromethane	50.000	53.578	-7.2	121	0.00
8	T	sec-Propyl alcohol	-1.000	0.000	0.0	26	0.00
9	T	Acrolein	200.000	204.602	-2.3	109	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	47.755	4.5	107	0.00
11	T	Acetone	200.000	192.905	3.5	103	0.00
12	C,TM	1,1-Dichloroethene	50.000	46.855	6.3	102	0.00
13	T	tert-Butyl alcohol	250.000	253.960	-1.6	101	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	102	0.00
15		Methyl acetate	-1.000	0.000	0.0	224	0.00
16	T	Iodomethane	50.000	47.346	5.3	119	0.00
17	T	Methylene chloride	50.000	48.572	2.9	102	0.00
18	T	Carbon disulfide	50.000	53.663	-7.3	114	0.00
19	T	Acrylonitrile	200.000	201.499	-0.7	103	0.00
20	T	tert-Butyl methyl ether (MT	50.000	50.124	-0.2	108	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.813	0.4	105	0.01
22	T	Isopropyl ether (DIPE)	50.000	50.065	-0.1	107	0.00
23	P,T	1,1-Dichloroethane	50.000	49.602	0.8	106	0.00
24	T	Vinyl acetate	50.000	44.928	10.1	91	0.00
25	T	tert-Butyl ethyl ether (ETB	50.000	50.811	-1.6	110	0.00
26	T	2-Butanone	200.000	195.740	2.1	101	0.00
27	T	2,2-Dichloropropane	50.000	49.284	1.4	105	0.00
28	T	cis-1,2-Dichloroethene	50.000	49.222	1.6	103	0.00
29	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	111	0.00
30	C,T	Chloroform	50.000	50.361	-0.7	109	0.00
31	T	Bromochloromethane	50.000	48.362	3.3	103	0.00
32	T	1,1,1-Trichloroethane	50.000	48.692	2.6	106	0.00
33	T	Cyclohexane	-1.000	0.000	0.0	75	0.00
34	T	tert-Amyl methyl ether (TAM	50.000	50.153	-0.3	108	0.00
35	S	1,2-Dichloroethane-d4	50.000	51.266	-2.5	134	0.00
36	I	CHLOROBENZENE-D5	50.000	50.000	0.0	110	0.00
37	T	1,1-Dichloropropene	50.000	47.739	4.5	102	0.00
38	T	Carbon tetrachloride	50.000	49.098	1.8	106	0.00
39	T	1,2-Dichloroethane	50.000	48.571	2.9	103	0.00
40	M,T	Benzene	50.000	48.927	2.1	106	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
Acq On : 23 Mar 2006 10:53 pm Operator: CGM
Sample : IVO67C231 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	M,T	Trichloroethene	50.000	49.034	1.9	108	0.00
42	T	Methylcyclohexane	-1.000	0.000	0.0	109	0.00
43	C,T	1,2-Dichloropropane	50.000	48.155	3.7	102	0.00
44	T	Bromodichloromethane	50.000	47.119	5.8	101	0.00
45	T	Dibromomethane	50.000	49.866	0.3	105	0.00
46	T	2-Chloroethyl vinyl ether	50.000	52.088	-4.2	109	0.00
47	T	4-Methyl-2-pentanone	200.000	198.504	0.7	102	0.00
48	T	cis-1,3-Dichloropropene	50.000	48.309	3.4	102	0.00
49	S	Toluene-d8	50.000	51.095	-2.2	140	0.00
50	C,TM	Toluene	50.000	49.352	1.3	107	0.00
51	T	Ethyl methacrylate	50.000	49.630	0.7	102	0.00
52	T	trans-1,3-Dichloropropene	50.000	53.573	-7.1	112	0.00
53	T	1,1,2-Trichloroethane	50.000	47.847	4.3	102	0.00
54	T	2-Hexanone	200.000	192.202	3.9	104	0.00
55	T	1,3-Dichloropropane	50.000	47.877	4.2	103	0.00
56	T	Tetrachloroethene	50.000	49.896	0.2	109	0.01
57	T	Dibromochloromethane	50.000	50.129	-0.3	107	0.00
58	T	1,2-Dibromoethane	50.000	49.262	1.5	103	0.00
59	T	1-Chlorohexane	50.000	50.052	-0.1	105	0.00
60	P,M	Chlorobenzene	50.000	49.013	2.0	107	0.00
61	T	1,1,1,2-Tetrachloroethane	50.000	49.660	0.7	107	0.00
62	C,T	Ethylbenzene	50.000	49.658	0.7	105	0.01
63	T	m-Xylene & p-Xylene	100.000	99.222	0.8	107	0.00
64	T	o-Xylene	50.000	49.121	1.8	104	0.00
65	T	Styrene	50.000	48.506	3.0	101	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	110	0.00
67	P,T	Bromoform	50.000	48.217	3.6	103	0.00
68	T	Isopropylbenzene	50.000	53.398	-6.8	116	0.00
69	P,T	1,1,2,2-Tetrachloroethane	50.000	46.172	7.7	98	0.00
70	S	4-Bromofluorobenzene	50.000	51.593	-3.2	136	0.00
71	T	1,2,3-Trichloropropane	50.000	46.576	6.8	96	0.00
72	T	trans-1,4-Dichloro-2-butene	50.000	68.244	-36.5#	141	0.00
73	T	n-Propylbenzene	50.000	49.821	0.4	104	0.00
74	T	Bromobenzene	50.000	48.413	3.2	109	0.00
75	T	2-Chlorotoluene	50.000	48.166	3.7	104	0.00
76	T	1,3,5-Trimethylbenzene	50.000	50.089	-0.2	107	0.00
77	T	4-Chlorotoluene	50.000	47.423	5.2	107	0.00
78	T	tert-Butylbenzene	50.000	49.378	1.2	105	0.00
79	T	1,2,4-Trimethylbenzene	50.000	50.092	-0.2	105	0.00
80	T	sec-Butylbenzene	50.000	47.433	5.1	98	0.01

(#) = Out of Range

2084

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
Acq On : 23 Mar 2006 10:53 pm Operator: CGM
Sample : IVO67C231 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	50.000	54.612	-9.2	112	0.00
82	T	1,3-Dichlorobenzene	50.000	47.816	4.4	106	0.00
83	T	1,4-Dichlorobenzene	50.000	47.187	5.6	105	0.00
84	T	n-Butylbenzene	50.000	45.772	8.5	109	0.00
85	T	1,2-Dichlorobenzene	50.000	48.204	3.6	107	0.00
86	T	1,2-Dibromo-3-chloropropane	50.000	49.582	0.8	103	0.00
87	T	1,2,4-Trichlorobenzene	50.000	44.036	11.9	109	0.00
88	T	Hexachlorobutadiene	50.000	48.576	2.8	103	0.00
89	T	Naphthalene	50.000	41.482	17.0	109	0.00
90	T	1,2,3-Trichlorobenzene	50.000	43.907	12.2	109	0.00

3/28/06
2085

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
Acq On : 23 Mar 2006 10:53 pm Operator: CGM
Sample : IVO67C231 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Multiple Level Calibration * Not valid for compand #72.

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	112	0.00
2	T	Dichlorodifluoromethane	0.247	0.260	-5.3	117	0.01
3	P,T	Chloromethane	0.207	0.223	-7.7	123	0.01
4	C,T	Vinyl chloride	0.172	0.168	2.3	134	0.00
5	T	Bromomethane	0.189	0.197	-4.2	140	0.00
6	T	Chloroethane	0.115	0.123	-7.0	121	0.00
7	T	Trichlorofluoromethane	0.250	0.268	-7.2	121	0.00
8	T	sec-Propyl alcohol	0.000	0.000	0.0	26#	0.00
9	T	Acrolein	0.030	0.031	-3.3	109	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.187	0.178	4.8	107	0.00
11	T	Acetone	0.056	0.054	3.6	103	0.00
12	C,TM	1,1-Dichloroethene	0.375	0.351	6.4	102	0.00
13	T	tert-Butyl alcohol	0.019	0.019	0.0	101	0.00
14	T	Acetonitrile	0.000	0.000	0.0	102	0.00
15		Methyl acetate	0.000	0.000	0.0	224#	0.00
16	T	Iodomethane	0.242	0.289	-19.4	119	0.00
17	T	Methylene chloride	0.444	0.390	12.2	102	0.00
18	T	Carbon disulfide	0.946	1.015	-7.3	114	0.00
19	T	Acrylonitrile	0.075	0.076	-1.3	103	0.00
20	T	tert-Butyl methyl ether (MT	0.495	0.496	-0.2	108	0.00
21	T	trans-1,2-Dichloroethene	0.383	0.382	0.3	105	0.01
22	T	Isopropyl ether (DIPE)	0.868	0.869	-0.1	107	0.00
23	P,T	1,1-Dichloroethane	0.489	0.485	0.8	106	0.00
24	T	Vinyl acetate	0.468	0.421	10.0	91	0.00
25	T	tert-Butyl ethyl ether (ETB	0.638	0.648	-1.6	110	0.00
26	T	2-Butanone	0.113	0.111	1.8	101	0.00
27	T	2,2-Dichloropropane	0.303	0.298	1.7	105	0.00
28	T	cis-1,2-Dichloroethene	0.438	0.431	1.6	103	0.00
29	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	111	0.00
30	C,T	Chloroform	0.476	0.479	-0.6	109	0.00
31	T	Bromochloromethane	0.265	0.256	3.4	103	0.00
32	T	1,1,1-Trichloroethane	0.340	0.331	2.6	106	0.00
33	T	Cyclohexane	0.000	0.000	0.0	75	0.00
34	T	tert-Amyl methyl ether (TAM	0.671	0.673	-0.3	108	0.00
35	S	1,2-Dichloroethane-d4	0.217	0.222	-2.3	134	0.00
36	I	CHLOROBENZENE-D5	1.000	1.000	0.0	110	0.00
37	T	1,1-Dichloropropene	0.143	0.136	4.9	102	0.00
38	T	Carbon tetrachloride	0.334	0.328	1.8	106	0.00
39	T	1,2-Dichloroethane	0.312	0.303	2.9	103	0.00
40	M,T	Benzene	1.368	1.339	2.1	106	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
Acq On : 23 Mar 2006 10:53 pm Operator: CGM
Sample : IVO67C231 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M,T	Trichloroethene	0.377	0.370	1.9	108	0.00
42	T	Methylcyclohexane	0.000	0.000	0.0	109	0.00
43	C,T	1,2-Dichloropropane	0.370	0.356	3.8	102	0.00
44	T	Bromodichloromethane	0.402	0.379	5.7	101	0.00
45	T	Dibromomethane	0.223	0.223	0.0	105	0.00
46	T	2-Chloroethyl vinyl ether	0.056	0.058	-3.6	109	0.00
47	T	4-Methyl-2-pentanone	0.285	0.283	0.7	102	0.00
48	T	cis-1,3-Dichloropropene	0.472	0.456	3.4	102	0.00
49	S	Toluene-d8	1.103	1.127	-2.2	140	0.00
50	C,TM	Toluene	1.317	1.300	1.3	107	0.00
51	T	Ethyl methacrylate	0.325	0.322	0.9	102	0.00
52	T	trans-1,3-Dichloropropene	0.340	0.364	-7.1	112	0.00
53	T	1,1,2-Trichloroethane	0.276	0.264	4.3	102	0.00
54	T	2-Hexanone	0.191	0.180	5.8	104	0.00
55	T	1,3-Dichloropropane	0.468	0.448	4.3	103	0.00
56	T	Tetrachloroethene	0.261	0.260	0.4	109	0.01
57	T	Dibromochloromethane	0.309	0.310	-0.3	107	0.00
58	T	1,2-Dibromoethane	0.306	0.301	1.6	103	0.00
59	T	1-Chlorohexane	0.506	0.506	0.0	105	0.00
60	P,M	Chlorobenzene	0.908	0.890	2.0	107	0.00
61	T	1,1,1,2-Tetrachloroethane	0.284	0.282	0.7	107	0.00
62	C,T	Ethylbenzene	1.421	1.412	0.6	105	0.01
63	T	m-Xylene & p-Xylene	1.066	1.058	0.8	107	0.00
64	T	o-Xylene	1.096	1.077	1.7	104	0.00
65	T	Styrene	0.885	0.858	3.1	101	0.00
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	110	0.00
67	P,T	Bromoform	0.508	0.490	3.5	103	0.00
68	T	Isopropylbenzene	3.561	3.803	-6.8	116	0.00
69	P,T	1,1,2,2-Tetrachloroethane	1.192	1.101	7.6	98	0.00
70	S	4-Bromofluorobenzene	1.063	1.097	-3.2	136	0.00
71	T	1,2,3-Trichloropropane	0.199	0.185	7.0	96	0.00
72	T	trans-1,4-Dichloro-2-butene	0.102	0.139	-36.3#	141	0.00
73	T	n-Propylbenzene	4.721	4.704	0.4	104	0.00
74	T	Bromobenzene	0.925	0.896	3.1	109	0.00
75	T	2-Chlorotoluene	2.960	2.852	3.6	104	0.00
76	T	1,3,5-Trimethylbenzene	2.893	2.898	-0.2	107	0.00
77	T	4-Chlorotoluene	2.543	2.412	5.2	107	0.00
78	T	tert-Butylbenzene	2.549	2.517	1.3	105	0.00
79	T	1,2,4-Trimethylbenzene	2.782	2.788	-0.2	105	0.00
80	T	sec-Butylbenzene	4.020	3.814	5.1	98	0.01

(#) = Out of Range

ew 3/28/06

2087

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
Acq On : 23 Mar 2006 10:53 pm Operator: CGM
Sample : IVO67C231 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	2.637	2.881	-9.3	112	0.00
82	T	1,3-Dichlorobenzene	1.707	1.632	4.4	106	0.00
83	T	1,4-Dichlorobenzene	1.679	1.584	5.7	105	0.00
84	T	n-Butylbenzene	2.510	2.563	-2.1	109	0.00
85	T	1,2-Dichlorobenzene	1.540	1.484	3.6	107	0.00
86	T	1,2-Dibromo-3-chloropropane	0.137	0.136	0.7	103	0.00
87	T	1,2,4-Trichlorobenzene	0.588	0.579	1.5	109	0.00
88	T	Hexachlorobutadiene	0.311	0.291	6.4	103	0.00
89	T	Naphthalene	1.203	1.135	5.7	109	0.00
90	T	1,2,3-Trichlorobenzene	0.479	0.472	1.5	109	0.00

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2088

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
Acq On : 23 Mar 2006 10:53 pm Operator: CGM
Sample : IVO67C231 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 28 9:44 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

* Not valid for compound # 72.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2722743	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.71	117	2441749	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	874892	50.00	ug/l	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.68	65	605669	51.27	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.54%		
49) Toluene-d8	12.67	98	2752560	51.10	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.20%		
70) 4-Bromofluorobenzene	18.46	95	959833	51.59	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.18%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.54	85	706732	52.55	ug/l	100
3) Chloromethane	4.03	50	606225	53.66	ug/l	98
4) Vinyl chloride	4.16	62	456328	58.86	ug/l	100
5) Bromomethane	4.89	94	537551	58.31	ug/l	100
6) Chloroethane	5.00	64	334837	53.32	ug/l	99
7) Trichlorofluoromethane	5.37	101	729357	53.58	ug/l	100
9) Acrolein	5.94	56	336002	204.60	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	485024	47.75	ug/l	100
11) Acetone	6.01	43	592864	192.91	ug/l	99
12) 1,1-Dichloroethene	6.24	61	956238	46.85	ug/l	99
13) tert-Butyl alcohol	6.26	59	263777	253.96	ug/l	95
16) Iodomethane	6.70	142	786920	47.35	ug/l	99
17) Methylene chloride	6.86	49	1060621	48.57	ug/l	98
18) Carbon disulfide	6.99	76	2764689	53.66	ug/l	100
19) Acrylonitrile	6.98	53	826061	201.50	ug/l	99
20) tert-Butyl methyl ether (M	6.99	73	1350206	50.12	ug/l	99
21) trans-1,2-Dichloroethene	7.25	61	1039036	49.81	ug/l	98
22) Isopropyl ether (DIPE)	7.53	45	2367077	50.06	ug/l	100
23) 1,1-Dichloroethane	7.77	63	1321215	49.60	ug/l	99
24) Vinyl acetate	7.68	43	1146166	44.93	ug/l	99
25) tert-Butyl ethyl ether (ET	8.05	59	1764885	50.81	ug/l	99
26) 2-Butanone	8.23	43	1205813	195.74	ug/l	99
27) 2,2-Dichloropropane	8.48	77	812737	49.28	ug/l	99
28) cis-1,2-Dichloroethene	8.56	61	1174580	49.22	ug/l	98
30) Chloroform	8.75	83	1304918	50.36	ug/l	99
31) Bromochloromethane	8.99	49	697888	48.36	ug/l	95
32) 1,1,1-Trichloroethane	9.29	97	902521	48.69	ug/l	99
34) tert-Amyl methyl ether (TA	9.54	73	1833165	50.15	ug/l	99
37) 1,1-Dichloropropene	9.48	77	332501	47.74	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
Acq On : 23 Mar 2006 10:53 pm Operator: CGM
Sample : IVO67C231 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 28 9:44 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Carbon tetrachloride	9.66	119	801110	49.10	ug/l	99
39)	1,2-Dichloroethane	9.81	62	740793	48.57	ug/l	100
40)	Benzene	9.87	78	3268768	48.93	ug/l	99
41)	Trichloroethene	10.72	130	902903	49.03	ug/l	98
43)	1,2-Dichloropropane	10.97	63	869199	48.16	ug/l	99
44)	Bromodichloromethane	11.36	83	925983	47.12	ug/l	100
45)	Dibromomethane	11.49	93	544112	49.87	ug/l	98
46)	2-Chloroethyl vinyl ether	11.67	63	141272	52.09	ug/l	99
47)	4-Methyl-2-pentanone	11.72	43	2764316	198.50	ug/l	100
48)	cis-1,3-Dichloropropene	12.19	75	1112554	48.31	ug/l	99
50)	Toluene	12.82	91	3173931	49.35	ug/l	100
51)	Ethyl methacrylate	12.88	69	786944	49.63	ug/l	99
52)	trans-1,3-Dichloropropene	13.04	75	888945	53.57	ug/l	98
53)	1,1,2-Trichloroethane	13.38	97	645762	47.85	ug/l	100
54)	2-Hexanone	13.25	43	1756422	192.20	ug/l	99
55)	1,3-Dichloropropane	13.86	76	1094498	47.88	ug/l	100
56)	Tetrachloroethene	14.10	164	634954	49.90	ug/l	100
57)	Dibromochloromethane	14.52	129	757021	50.13	ug/l	100
58)	1,2-Dibromoethane	14.93	107	734987	49.26	ug/l	100
59)	1-Chlorohexane	15.05	91	1236681	50.05	ug/l	99
60)	Chlorobenzene	15.80	112	2174372	49.01	ug/l	99
61)	1,1,1,2-Tetrachloroethane	15.84	131	688220	49.66	ug/l	99
62)	Ethylbenzene	15.84	91	3446658	49.66	ug/l	100
63)	m-Xylene & p-Xylene	15.99	91	5165846	99.22	ug/l	99
64)	o-Xylene	17.00	91	2628868	49.12	ug/l	100
65)	Styrene	17.08	104	2096205	48.51	ug/l	99
67)	Bromoform	17.99	173	428317	48.22	ug/l	99
68)	Isopropylbenzene	17.81	105	3327148	53.40	ug/l	100
69)	1,1,2,2-Tetrachloroethane	18.21	83	963396	46.17	ug/l	99
71)	1,2,3-Trichloropropane	18.58	61	161870	46.58	ug/l	97
72)	trans-1,4-Dichloro-2-buten	18.69	53	121252	68.24	ug/l	98
73)	n-Propylbenzene	18.78	91	4115852	49.82	ug/l	100
74)	Bromobenzene	19.01	156	783792	48.41	ug/l	99
75)	2-Chlorotoluene	19.30	91	2494781	48.17	ug/l	99
76)	1,3,5-Trimethylbenzene	19.16	105	2535207	50.09	ug/l	100
77)	4-Chlorotoluene	19.40	91	2110082	47.42	ug/l	100
78)	tert-Butylbenzene	20.07	119	2202006	49.38	ug/l	100
79)	1,2,4-Trimethylbenzene	20.18	105	2438852	50.09	ug/l	100
80)	sec-Butylbenzene	20.62	105	3336674	47.43	ug/l	100
81)	p-Isopropyltoluene	20.95	119	2520207	54.61	ug/l	99
82)	1,3-Dichlorobenzene	21.31	146	1428237	47.82	ug/l	100

(#) = qualifier out of range (m) = manual integration

3/28/06

2090

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
Acq On : 23 Mar 2006 10:53 pm Operator: CGM
Sample : IVO67C231 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 28 9:44 2006 Quant Results File: VO67C23.RES

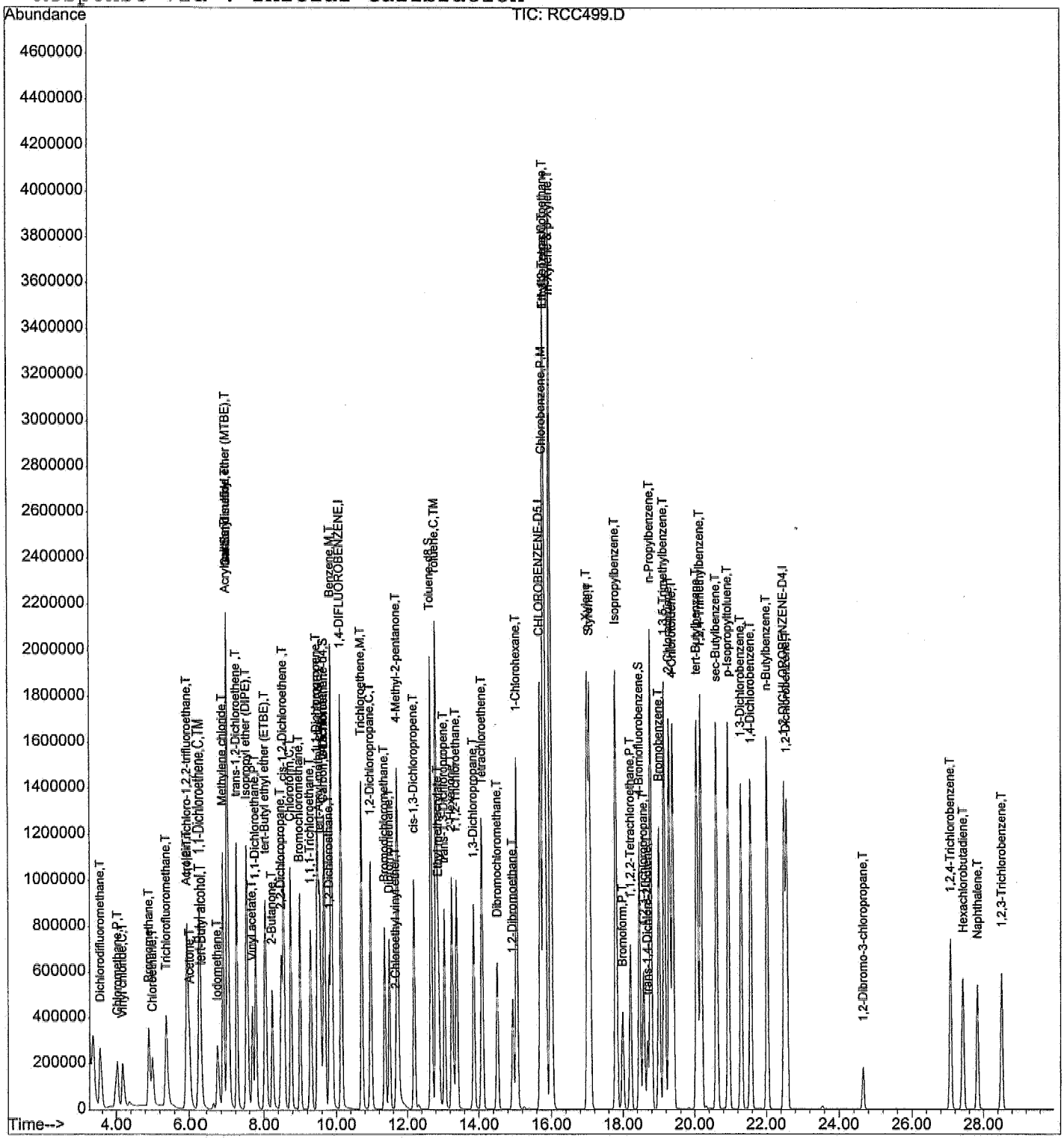
Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,4-Dichlorobenzene	21.58	146	1385945	47.19	ug/l	100
84)	n-Butylbenzene	22.02	91	2242136	45.77	ug/l	100
85)	1,2-Dichlorobenzene	22.57	146	1298678	48.20	ug/l	99
86)	1,2-Dibromo-3-chloropropan	24.66	157	118792	49.58	ug/l	99
87)	1,2,4-Trichlorobenzene	27.07	180	506191	44.04	ug/l	100
88)	Hexachlorobutadiene	27.43	225	254875	48.58	ug/l	100
89)	Naphthalene	27.83	128	993008	41.48	ug/l	100
90)	1,2,3-Trichlorobenzene	28.50	180	413073	43.91	ug/l	98

Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
Acq On : 23 Mar 2006 10:53 pm Operator: CGM
Sample : IVO67C231 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 28 9:44 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration



3/24/06

2092

DAILY CALIBRATION

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RCC648
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: UPGRADIENT INVESTIGATION, TRONOX
SAS No.: SDG No.: 06C204
BFB Injection Date : 03/29/06
BFB Injection Time : 14:44
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.38
75	30.0 - 60.0% of mass 95	41.42
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.49
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	71.72
175	5.0 - 9.0% of mass 174	5.25(7.3)1
176	95.0 - 101.0% of mass 174	68.84(96.0)1
177	5.0 - 9.0% of mass 176	4.37(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
1	VSTD050	CV067C2316	RCC650	03/29/06	15:56
2	MBLK1W	V067C46B	RCC657	03/29/06	20:06
3	LCS1W	V067C46L	RCC653	03/29/06	17:43
4	LCD1W	V067C46C	RCC654	03/29/06	18:19
5	TRIP BLANK	C204-02	RCC659	03/29/06	21:17
6	M-120	C204-01	RCC667	03/30/06	02:03
7	M-118	C204-03	RCC668	03/30/06	02:38

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCC488
Instrument ID: T-067
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C204
Date Analyzed: 03/23/06
Time Analyzed: 16:23
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2430846	10.14	2219848	15.71	796276	22.50
	UPPER LIMIT	4861692	10.64	4439696	16.21	1592552	23.00
	LOWER LIMIT	1215423	9.64	1109924	15.21	398138	22.00
	SAMPLE ID						
1	VSTD050	2845615	10.15	2577416	15.72	937658	22.51
2	MBLK1W	2595153	10.15	2261286	15.72	597746	22.52
3	LCS1W	2694068	10.15	2414819	15.73	804262	22.52
4	LCD1W	2801143	10.15	2547043	15.72	866939	22.52
5	TRIP BLANK	2512014	10.15	2176318	15.72	609057	22.52
6	M-120	2382938	10.16	2108464	15.72	578853	22.53
7	M-118	2385776	10.15	2101065	15.72	573032	22.52

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

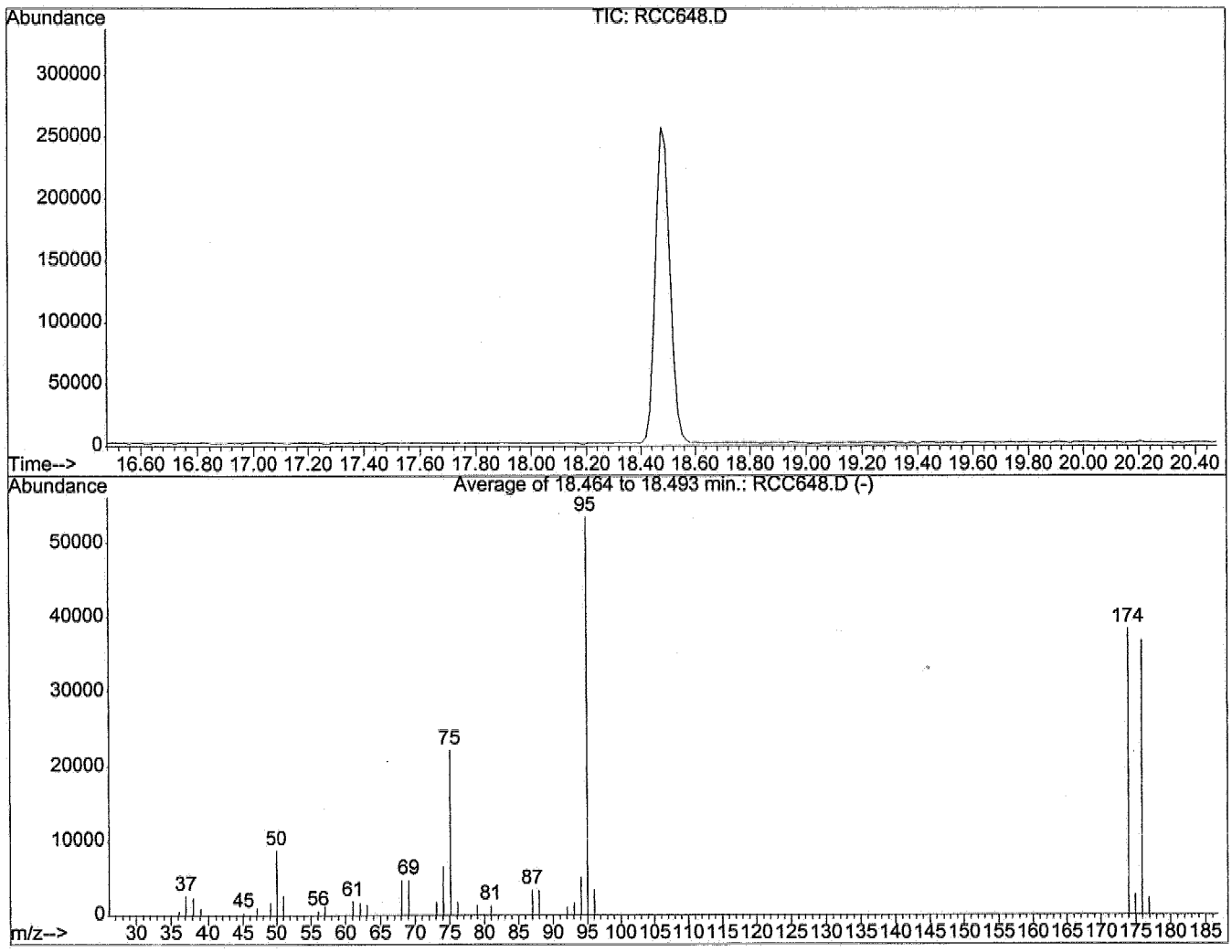
AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

BFB

Data File : D:\HPCHEM\1\DATA\06C29\RCC648.D
Acq On : 29 Mar 2006 2:44 pm
Sample : BFB67C45
Misc : BFB TUNE
MS Integration Params: LSCINT.P
Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml

Vial: 1
Operator: CGM
Inst : TO67
Multiplr: 1.00



AutoFind: Scans 1023, 1024, 1025; Background Corrected with Scan 1018

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	8780	PASS
75	95	30	60	41.4	22205	PASS
95	95	100	100	100.0	53605	PASS
96	95	5	9	6.5	3479	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.7	38448	PASS
175	174	5	9	7.3	2815	PASS
176	174	95	101	96.0	36904	PASS
177	176	5	9	6.3	2341	PASS

RCC648.D VO67C23.M Mon Apr 03 10:03:37 2006

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC650.D Vial: 3
Acq On : 29 Mar 2006 3:56 pm Operator: CGM
Sample : CVO67C2316 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	117	0.01
2	T	Dichlorodifluoromethane	50.000	51.742	-3.5	121	0.01
3	P,T	Chloromethane	50.000	56.294	-12.6	134	0.03
4	C,T	Vinyl chloride	50.000	52.875	-5.8	131	0.01
5	T	Bromomethane	50.000	44.013	12.0	113	0.01
6	T	Chloroethane	50.000	53.920	-7.8	128	0.01
7	T	Trichlorofluoromethane	50.000	53.105	-6.2	126	0.01
8	T	sec-Propyl alcohol	-1.000	0.000	0.0	109	0.01
9	T	Acrolein	200.000	190.658	4.7	106	0.01
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	51.782	-3.6	121	0.01
11	T	Acetone	200.000	173.574	13.2	97	0.01
12	C,TM	1,1-Dichloroethene	50.000	48.674	2.7	111	0.01
13	T	tert-Butyl alcohol	250.000	250.054	-0.0	104	0.01
14	T	Acetonitrile	-1.000	0.000	0.0	109	0.01
15		Methyl acetate	-1.000	0.000	0.0	94	0.01
16	T	Iodomethane	50.000	43.625	12.8	113	0.01
17	T	Methylene chloride	50.000	50.586	-1.2	111	0.01
18	T	Carbon disulfide	50.000	49.423	1.2	110	0.01
19	T	Acrylonitrile	200.000	184.281	7.9	98	0.01
20	T	tert-Butyl methyl ether (MT	50.000	52.088	-4.2	117	0.01
21	T	trans-1,2-Dichloroethene	50.000	49.879	0.2	110	0.03
22	T	Isopropyl ether (DIPE)	50.000	50.757	-1.5	114	0.01
23	P,T	1,1-Dichloroethane	50.000	50.477	-1.0	112	0.01
24	T	Vinyl acetate	50.000	54.163	-8.3	115	0.01
25	T	tert-Butyl ethyl ether (ETB	50.000	51.746	-3.5	117	0.01
26	T	2-Butanone	200.000	175.755	12.1	95	0.01
27	T	2,2-Dichloropropane	50.000	52.546	-5.1	116	0.01
28	T	cis-1,2-Dichloroethene	50.000	51.383	-2.8	112	0.01
29	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	122	0.01
30	C,T	Chloroform	50.000	51.070	-2.1	115	0.01
31	T	Bromochloromethane	50.000	50.632	-1.3	112	0.01
32	T	1,1,1-Trichloroethane	50.000	50.550	-1.1	115	0.01
33	T	Cyclohexane	-1.000	0.000	0.0	127	0.01
34	T	tert-Amyl methyl ether (TAM	50.000	52.312	-4.6	118	0.01
35	S	1,2-Dichloroethane-d4	50.000	49.737	0.5	136	0.01
36	I	CHLOROBENZENE-D5	50.000	50.000	0.0	116	0.01
37	T	1,1-Dichloropropene	50.000	50.171	-0.3	113	0.01
38	T	Carbon tetrachloride	50.000	51.007	-2.0	116	0.01
39	T	1,2-Dichloroethane	50.000	49.744	0.5	111	0.01
40	M,T	Benzene	50.000	49.917	0.2	114	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC650.D Vial: 3
Acq On : 29 Mar 2006 3:56 pm Operator: CGM
Sample : CV067C2316 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	M,T	Trichloroethene	50.000	49.951	0.1	116	0.01
42	T	Methylcyclohexane	-1.000	0.000	0.0	122	0.01
43	C,T	1,2-Dichloropropane	50.000	49.515	1.0	111	0.01
44	T	Bromodichloromethane	50.000	50.856	-1.7	115	0.01
45	T	Dibromomethane	50.000	50.367	-0.7	111	0.01
46	T	2-Chloroethyl vinyl ether	50.000	41.023	18.0	90	0.01
47	T	4-Methyl-2-pentanone	200.000	179.189	10.4	97	0.03
48	T	cis-1,3-Dichloropropene	50.000	52.066	-4.1	116	0.01
49	S	Toluene-d8	50.000	49.280	1.4	143	0.03
50	C,TM	Toluene	50.000	50.727	-1.5	116	0.03
51	T	Ethyl methacrylate	50.000	52.565	-5.1	114	0.01
52	T	trans-1,3-Dichloropropene	50.000	52.524	-5.0	116	0.01
53	T	1,1,2-Trichloroethane	50.000	50.431	-0.9	113	0.01
54	T	2-Hexanone	200.000	170.353	14.8	98	0.01
55	T	1,3-Dichloropropane	50.000	50.765	-1.5	115	0.01
56	T	Tetrachloroethene	50.000	49.538	0.9	114	0.03
57	T	Dibromochloromethane	50.000	53.113	-6.2	120	0.01
58	T	1,2-Dibromoethane	50.000	50.977	-2.0	112	0.03
59	T	1-Chlorohexane	50.000	52.911	-5.8	118	0.01
60	P,M	Chlorobenzene	50.000	51.231	-2.5	118	0.01
61	T	1,1,1,2-Tetrachloroethane	50.000	52.652	-5.3	120	0.01
62	C,T	Ethylbenzene	50.000	52.206	-4.4	117	0.03
63	T	m-Xylene & p-Xylene	100.000	105.172	-5.2	119	0.03
64	T	o-Xylene	50.000	52.997	-6.0	119	0.03
65	T	Styrene	50.000	53.888	-7.8	119	0.01
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	118	0.01
67	P,T	Bromoform	50.000	50.537	-1.1	116	0.01
68	T	Isopropylbenzene	50.000	50.392	-0.8	117	0.01
69	P,T	1,1,2,2-Tetrachloroethane	50.000	47.508	5.0	108	0.01
70	S	4-Bromofluorobenzene	50.000	50.390	-0.8	142	0.01
71	T	1,2,3-Trichloropropane	50.000	46.809	6.4	104	0.01
72	T	trans-1,4-Dichloro-2-butene	50.000	44.118	11.8	98	0.01
73	T	n-Propylbenzene	50.000	52.029	-4.1	117	0.03
74	T	Bromobenzene	50.000	50.300	-0.6	122	0.01
75	T	2-Chlorotoluene	50.000	49.587	0.8	115	0.03
76	T	1,3,5-Trimethylbenzene	50.000	51.565	-3.1	118	0.01
77	T	4-Chlorotoluene	50.000	51.800	-3.6	125	0.01
78	T	tert-Butylbenzene	50.000	51.630	-3.3	117	0.01
79	T	1,2,4-Trimethylbenzene	50.000	51.693	-3.4	116	0.01
80	T	sec-Butylbenzene	50.000	52.047	-4.1	115	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC650.D Vial: 3
Acq On : 29 Mar 2006 3:56 pm Operator: CGM
Sample : CVO67C2316 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	50.000	54.223	-8.4	119	0.01
82	T	1,3-Dichlorobenzene	50.000	50.870	-1.7	121	0.01
83	T	1,4-Dichlorobenzene	50.000	51.074	-2.1	122	0.01
84	T	n-Butylbenzene	50.000	45.842	8.3	117	0.01
85	T	1,2-Dichlorobenzene	50.000	50.159	-0.3	120	0.01
86	T	1,2-Dibromo-3-chloropropane	50.000	46.877	6.2	104	0.01
87	T	1,2,4-Trichlorobenzene	50.000	42.296	15.4	112	0.03
88	T	Hexachlorobutadiene	50.000	50.261	-0.5	114	0.01
89	T	Naphthalene	50.000	36.105	27.8#	100	0.01
90	T	1,2,3-Trichlorobenzene	50.000	40.411	19.2	106	0.03

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC650.D Vial: 3
Acq On : 29 Mar 2006 3:56 pm Operator: CGM
Sample : CV067C2316 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	117	0.01
2	T	Dichlorodifluoromethane	0.247	0.256	-3.6	121	0.01
3	P,T	Chloromethane	0.207	0.234	-13.0	134	0.03
4	C,T	Vinyl chloride	0.172	0.156	9.3	131	0.01
5	T	Bromomethane	0.189	0.152	19.6	113	0.01
6	T	Chloroethane	0.115	0.124	-7.8	128	0.01
7	T	Trichlorofluoromethane	0.250	0.266	-6.4	126	0.01
8	T	sec-Propyl alcohol	0.000	0.000	0.0	109	0.01
9	T	Acrolein	0.030	0.029	3.3	106	0.01
10	T	1,1,2-Trichloro-1,2,2-trifl	0.187	0.193	-3.2	121	0.01
11	T	Acetone	0.056	0.049	12.5	97	0.01
12	C,TM	1,1-Dichloroethene	0.375	0.365	2.7	111	0.01
13	T	tert-Butyl alcohol	0.019	0.019	0.0	104	0.01
14	T	Acetonitrile	0.000	0.000	0.0	109	0.01
15		Methyl acetate	0.000	0.000	0.0	94	0.01
16	T	Iodomethane	0.242	0.263	-8.7	113	0.01
17	T	Methylene chloride	0.444	0.404	9.0	111	0.01
18	T	Carbon disulfide	0.946	0.935	1.2	110	0.01
19	T	Acrylonitrile	0.075	0.069	8.0	98	0.01
20	T	tert-Butyl methyl ether (MT	0.495	0.515	-4.0	117	0.01
21	T	trans-1,2-Dichloroethene	0.383	0.382	0.3	110	0.03
22	T	Isopropyl ether (DIPE)	0.868	0.881	-1.5	114	0.01
23	P,T	1,1-Dichloroethane	0.489	0.494	-1.0	112	0.01
24	T	Vinyl acetate	0.468	0.507	-8.3	115	0.01
25	T	tert-Butyl ethyl ether (ETB	0.638	0.660	-3.4	117	0.01
26	T	2-Butanone	0.113	0.099	12.4	95	0.01
27	T	2,2-Dichloropropane	0.303	0.318	-5.0	116	0.01
28	T	cis-1,2-Dichloroethene	0.438	0.450	-2.7	112	0.01
29	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	122	0.01
30	C,T	Chloroform	0.476	0.486	-2.1	115	0.01
31	T	Bromochloromethane	0.265	0.268	-1.1	112	0.01
32	T	1,1,1-Trichloroethane	0.340	0.344	-1.2	115	0.01
33	T	Cyclohexane	0.000	0.000	0.0	127	0.01
34	T	tert-Amyl methyl ether (TAM	0.671	0.702	-4.6	118	0.01
35	S	1,2-Dichloroethane-d4	0.217	0.216	0.5	136	0.01
36	I	CHLOROBENZENE-D5	1.000	1.000	0.0	116	0.01
37	T	1,1-Dichloropropene	0.143	0.143	0.0	113	0.01
38	T	Carbon tetrachloride	0.334	0.341	-2.1	116	0.01
39	T	1,2-Dichloroethane	0.312	0.311	0.3	111	0.01
40	M,T	Benzene	1.368	1.366	0.1	114	0.03

(#) = Out of Range

2100

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC650.D Vial: 3
Acq On : 29 Mar 2006 3:56 pm Operator: CGM
Sample : CVO67C2316 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M,T	Trichloroethene	0.377	0.377	0.0	116	0.01
42	T	Methylcyclohexane	0.000	0.000	0.0	122	0.01
43	C,T	1,2-Dichloropropane	0.370	0.366	1.1	111	0.01
44	T	Bromodichloromethane	0.402	0.409	-1.7	115	0.01
45	T	Dibromomethane	0.223	0.225	-0.9	111	0.01
46	T	2-Chloroethyl vinyl ether	0.056	0.046	17.9	90	0.01
47	T	4-Methyl-2-pentanone	0.285	0.255	10.5	97	0.03
48	T	cis-1,3-Dichloropropene	0.472	0.491	-4.0	116	0.01
49	S	Toluene-d8	1.103	1.087	1.5	143	0.03
50	C,TM	Toluene	1.317	1.336	-1.4	116	0.03
51	T	Ethyl methacrylate	0.325	0.341	-4.9	114	0.01
52	T	trans-1,3-Dichloropropene	0.340	0.357	-5.0	116	0.01
53	T	1,1,2-Trichloroethane	0.276	0.279	-1.1	113	0.01
54	T	2-Hexanone	0.191	0.160	16.2	98	0.01
55	T	1,3-Dichloropropane	0.468	0.475	-1.5	115	0.01
56	T	Tetrachloroethene	0.261	0.258	1.1	114	0.03
57	T	Dibromochloromethane	0.309	0.328	-6.1	120	0.01
58	T	1,2-Dibromoethane	0.306	0.311	-1.6	112	0.03
59	T	1-Chlorohexane	0.506	0.535	-5.7	118	0.01
60	P,M	Chlorobenzene	0.908	0.931	-2.5	118	0.01
61	T	1,1,1,2-Tetrachloroethane	0.284	0.299	-5.3	120	0.01
62	C,T	Ethylbenzene	1.421	1.484	-4.4	117	0.03
63	T	m-Xylene & p-Xylene	1.066	1.121	-5.2	119	0.03
64	T	o-Xylene	1.096	1.162	-6.0	119	0.03
65	T	Styrene	0.885	0.954	-7.8	119	0.01
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	118	0.01
67	P,T	Bromoform	0.508	0.513	-1.0	116	0.01
68	T	Isopropylbenzene	3.561	3.589	-0.8	117	0.01
69	P,T	1,1,2,2-Tetrachloroethane	1.192	1.133	4.9	108	0.01
70	S	4-Bromofluorobenzene	1.063	1.072	-0.8	142	0.01
71	T	1,2,3-Trichloropropane	0.199	0.186	6.5	104	0.01
72	T	trans-1,4-Dichloro-2-butene	0.102	0.090	11.8	98	0.01
73	T	n-Propylbenzene	4.721	4.913	-4.1	117	0.03
74	T	Bromobenzene	0.925	0.931	-0.6	122	0.01
75	T	2-Chlorotoluene	2.960	2.936	0.8	115	0.03
76	T	1,3,5-Trimethylbenzene	2.893	2.983	-3.1	118	0.01
77	T	4-Chlorotoluene	2.543	2.634	-3.6	125	0.01
78	T	tert-Butylbenzene	2.549	2.632	-3.3	117	0.01
79	T	1,2,4-Trimethylbenzene	2.782	2.877	-3.4	116	0.01
80	T	sec-Butylbenzene	4.020	4.185	-4.1	115	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC650.D Vial: 3
Acq On : 29 Mar 2006 3:56 pm Operator: CGM
Sample : CV067C2316 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	2.637	2.860	-8.5	119	0.01
82	T	1,3-Dichlorobenzene	1.707	1.737	-1.8	121	0.01
83	T	1,4-Dichlorobenzene	1.679	1.715	-2.1	122	0.01
84	T	n-Butylbenzene	2.510	2.567	-2.3	117	0.01
85	T	1,2-Dichlorobenzene	1.540	1.545	-0.3	120	0.01
86	T	1,2-Dibromo-3-chloropropane	0.137	0.128	6.6	104	0.01
87	T	1,2,4-Trichlorobenzene	0.588	0.554	5.8	112	0.03
88	T	Hexachlorobutadiene	0.311	0.302	2.9	114	0.01
89	T	Naphthalene	1.203	0.971	19.3	100	0.01
90	T	1,2,3-Trichlorobenzene	0.479	0.431	10.0	106	0.03

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\data\06C29\RCC650.D Vial: 3
Acq On : 29 Mar 2006 3:56 pm Operator: CGM
Sample : CVO67C2316 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 16:26 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2845615	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.72	117	2577416	50.00	ug/l	0.01
66) 1,2-DICHLOROBENZENE-D4	22.51	152	937658	50.00	ug/l	0.01
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	614117	49.74	ug/l	0.01
Spiked Amount 50.000			Recovery =	99.48%		
49) Toluene-d8	12.70	98	2802269	49.28	ug/l	0.03
Spiked Amount 50.000			Recovery =	98.56%		
70) 4-Bromofluorobenzene	18.48	95	1004706	50.39	ug/l	0.01
Spiked Amount 50.000			Recovery =	100.78%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.54	85	727274	51.74	ug/l	99
3) Chloromethane	4.04	50	664693	56.29	ug/l	99
4) Vinyl chloride	4.18	62	443886	52.87	ug/l	99
5) Bromomethane	4.91	94	432498	44.01	ug/l	99
6) Chloroethane	5.01	64	353901	53.92	ug/l	99
7) Trichlorofluoromethane	5.38	101	755536	53.10	ug/l	100
9) Acrolein	5.95	56	327232	190.66	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	5.97	151	549658	51.78	ug/l	99
11) Acetone	6.03	43	557525	173.57	ug/l	99
12) 1,1-Dichloroethene	6.25	61	1038206	48.67	ug/l	97
13) tert-Butyl alcohol	6.28	59	271441	250.05	ug/l	99
16) Iodomethane	6.71	142	748035	43.63	ug/l	99
17) Methylene chloride	6.87	49	1151025	50.59	ug/l	97
18) Carbon disulfide	7.01	76	2661187	49.42	ug/l	100
19) Acrylonitrile	6.99	53	789565	184.28	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	1466439	52.09	ug/l	100
21) trans-1,2-Dichloroethene	7.26	61	1087365	49.88	ug/l	97
22) Isopropyl ether (DIPE)	7.54	45	2508096	50.76	ug/l	98
23) 1,1-Dichloroethane	7.78	63	1405195	50.48	ug/l	99
24) Vinyl acetate	7.69	43	1444103	54.16	ug/l	99
25) tert-Butyl ethyl ether (ET	8.07	59	1878494	51.75	ug/l	98
26) 2-Butanone	8.24	43	1131559	175.76	ug/l	98
27) 2,2-Dichloropropane	8.50	77	905633	52.55	ug/l	98
28) cis-1,2-Dichloroethene	8.57	61	1281494	51.38	ug/l	98
30) Chloroform	8.77	83	1383004	51.07	ug/l	99
31) Bromochloromethane	9.00	49	763623	50.63	ug/l	93
32) 1,1,1-Trichloroethane	9.30	97	979229	50.55	ug/l	98
34) tert-Amyl methyl ether (TA	9.56	73	1998365	52.31	ug/l	98
37) 1,1-Dichloropropene	9.50	77	368852	50.17	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\data\06C29\RCC650.D Vial: 3
Acq On : 29 Mar 2006 3:56 pm Operator: CGM
Sample : CVO67C2316 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 16:26 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Carbon tetrachloride	9.67	119	878513	51.01	ug/l	100
39)	1,2-Dichloroethane	9.82	62	800845	49.74	ug/l	100
40)	Benzene	9.90	78	3520223	49.92	ug/l	100
41)	Trichloroethene	10.73	130	970894	49.95	ug/l	98
43)	1,2-Dichloropropane	10.99	63	943389	49.51	ug/l	98
44)	Bromodichloromethane	11.37	83	1054935	50.86	ug/l	100
45)	Dibromomethane	11.51	93	580105	50.37	ug/l	97
46)	2-Chloroethyl vinyl ether	11.69	63	117443	41.02	ug/l	97
47)	4-Methyl-2-pentanone	11.74	43	2633980	179.19	ug/l	99
48)	cis-1,3-Dichloropropene	12.21	75	1265683	52.07	ug/l	99
50)	Toluene	12.85	91	3443632	50.73	ug/l	100
51)	Ethyl methacrylate	12.89	69	879798	52.57	ug/l	98
52)	trans-1,3-Dichloropropene	13.06	75	919963	52.52	ug/l	98
53)	1,1,2-Trichloroethane	13.40	97	718445	50.43	ug/l	99
54)	2-Hexanone	13.26	43	1644452	170.35	ug/l	99
55)	1,3-Dichloropropane	13.87	76	1224997	50.76	ug/l	100
56)	Tetrachloroethene	14.11	164	665433	49.54	ug/l	99
57)	Dibromochloromethane	14.53	129	846640	53.11	ug/l	100
58)	1,2-Dibromoethane	14.96	107	802822	50.98	ug/l	99
59)	1-Chlorohexane	15.07	91	1379964	52.91	ug/l	98
60)	Chlorobenzene	15.81	112	2399036	51.23	ug/l	99
61)	1,1,1,2-Tetrachloroethane	15.86	131	770230	52.65	ug/l	98
62)	Ethylbenzene	15.86	91	3824848	52.21	ug/l	100
63)	m-Xylene & p-Xylene	16.02	91	5779850	105.17	ug/l	99
64)	o-Xylene	17.03	91	2993926	53.00	ug/l	100
65)	Styrene	17.09	104	2458220	53.89	ug/l	100
67)	Bromoform	18.00	173	481131	50.54	ug/l	99
68)	Isopropylbenzene	17.82	105	3365090	50.39	ug/l	99
69)	1,1,2,2-Tetrachloroethane	18.22	83	1062393	47.51	ug/l	100
71)	1,2,3-Trichloropropane	18.60	61	174350	46.81	ug/l	97
72)	trans-1,4-Dichloro-2-buten	18.70	53	84010	44.12	ug/l	99
73)	n-Propylbenzene	18.81	91	4606627	52.03	ug/l	99
74)	Bromobenzene	19.03	156	872754	50.30	ug/l	98
75)	2-Chlorotoluene	19.33	91	2752622	49.59	ug/l	99
76)	1,3,5-Trimethylbenzene	19.18	105	2797181	51.57	ug/l	99
77)	4-Chlorotoluene	19.42	91	2470202	51.80	ug/l	100
78)	tert-Butylbenzene	20.09	119	2467602	51.63	ug/l	99
79)	1,2,4-Trimethylbenzene	20.19	105	2697385	51.69	ug/l	99
80)	sec-Butylbenzene	20.64	105	3923890	52.05	ug/l	99
81)	p-Isopropyltoluene	20.96	119	2681743	54.22	ug/l	99
82)	1,3-Dichlorobenzene	21.32	146	1628453	50.87	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\data\06C29\RCC650.D Vial: 3
Acq On : 29 Mar 2006 3:56 pm Operator: CGM
Sample : CVO67C2316 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 16:26 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

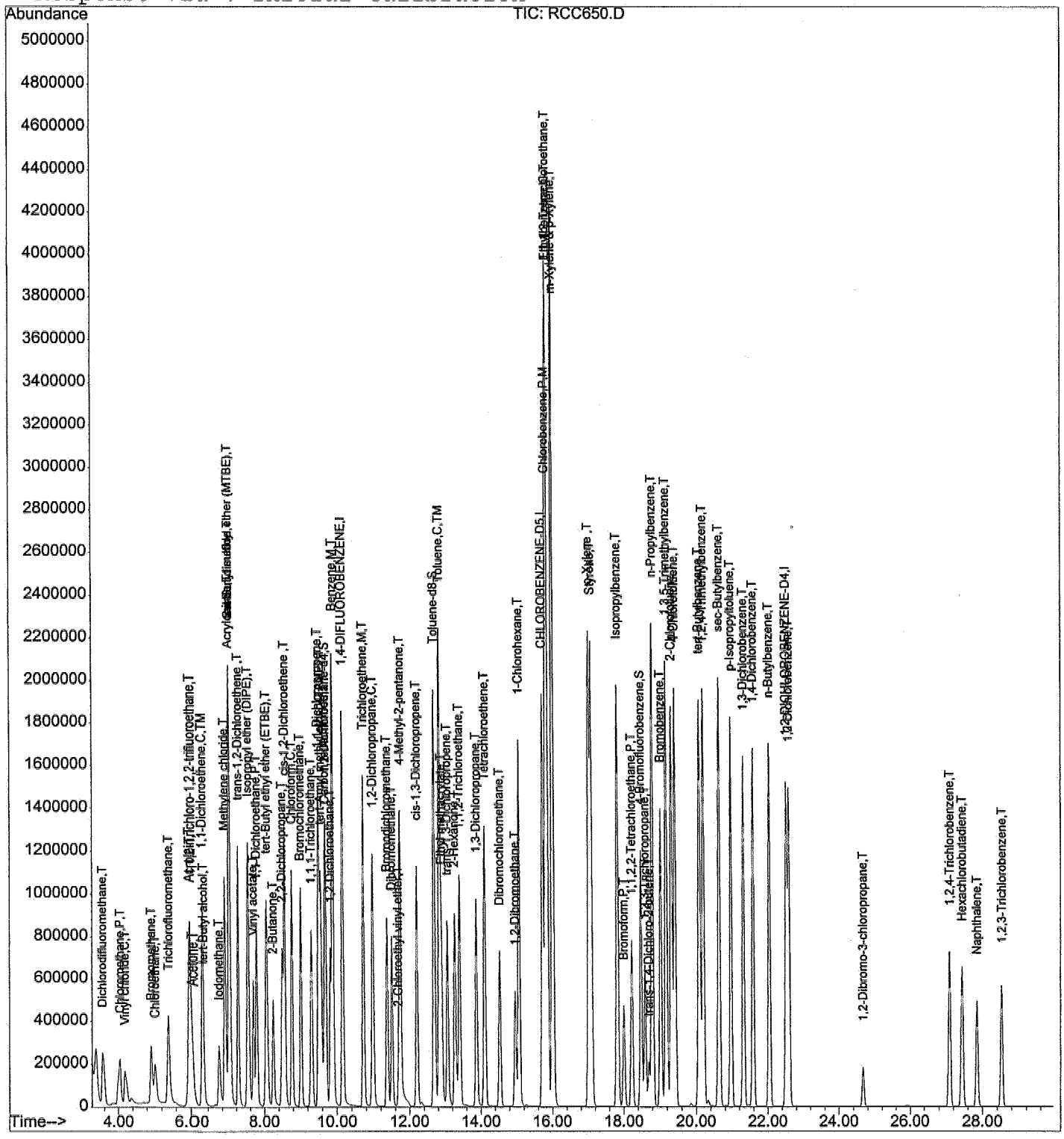
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,4-Dichlorobenzene	21.59	146	1607742	51.07	ug/l	99
84)	n-Butylbenzene	22.04	91	2406952	45.84	ug/l	100
85)	1,2-Dichlorobenzene	22.59	146	1448313	50.16	ug/l	99
86)	1,2-Dibromo-3-chloropropan	24.67	157	120369	46.88	ug/l	98
87)	1,2,4-Trichlorobenzene	27.10	180	519204	42.30	ug/l	100
88)	Hexachlorobutadiene	27.44	225	283501	50.26	ug/l	99
89)	Naphthalene	27.85	128	910819	36.11	ug/l	100
90)	1,2,3-Trichlorobenzene	28.53	180	404258	40.41	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\data\06C29\RCC650.D Vial: 3
Acq On : 29 Mar 2006 3:56 pm Operator: CGM
Sample : CVO67C2316 Inst : TO67
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 29 16:26 2006 Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration



ANALYTICAL LOG

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 2 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 3/23/06 ☑ 5-ml Purge ☐ 25-ml Purge **Book # A67 -021**

BATCH VOA-C235

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RCC483	BFB67C32	2ML	NA	NA	NA	
02	484	VO67C231 x .05(.20) .04/ML	.04/.08 CGM 3/23/06				8260 2 / 1&1AA 8 / TBA 10 ppb
03	485	2x					5 90 25
04	486	3x					10 40 50
05	487	4x					20 80 100
06	488	5x					50 200 250
07	489	6x					80 320 400
08	490	7x					100 400 500 CGM 3/23/06
09	491	8x					200 800 1000
10	492	9x					300 1200 1500
11	493	15/55 check					
12	494	VO67C32B					
13	495	CGM 3/23 VO67C2310x					CGM 3/23/06
14	496	11x					
15	497	12x					
16	498	13x					
17	499	VO67C231 x *					
18	500	2x *					
19	501	Rinse					
20							
21							
22							
23							
24							
25							CGM 3/23/06

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	3/23/06
ICAL ID	VO67C23

STANDARDS

NAME	ID	CONC. (mg/L)
DCC	SVIC-10-47-3	500
DCC	42-2	50/250
DCC	48-1	250
BFB	20-3	50
IS/SURR.	48-3	250
LCS	44-3	250
LCS	42-3	50/250
LCS	20-2	250
~~SOLVENT~~ IS	SVIC-10-49-1 ID ~~250 ppm~~	
~~METHANOL~~ SS	2	
DATA FILE	06C23	

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO67	

Comments:

* Not valid for trans-1,4-Dichloro-2-butene.

Analyzed By: CGM

Date Disposed: 3/24/06

Disposed By: CGM

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 2 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 3/29/06 ☑ 5-ml Purge ☐ 25-ml Purge **Book # A67 -021**

BATCH CV067C23G

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RCC648	BFBC7C45 ✓	2ML				
02	649	CV067C2315	2.5/1ML				
03	650	1 ↓ 16 ✓	↓				
04	651	V067C45L ✓	1.0/2.4ML	1.0			
05	652	↓ C ✓					
06	653	V067C46 L ✓					
07	654	↓ C ✓	↓				
08	655	V067C45B	5.0g				
09	656	↓ Q ✓	↓				
10	657	V067C46 B ✓	5.0ML				
11	658	VPC010SB	5.0g			✓	
12	659	06C204-02	5.0ML	↓	<2		
13	660	06C180-03	5.9g	0.85		✓	
14	661	↓ 07	4.9g	1.0		✓	
15	662	06C242-03	5.9g	0.85		✓	
16	663	↓ 06	6.1g	0.78		✓	
17	664	09	6.2g	0.81		✓	
18	665	13	5.7g	0.88		✓	
19	666	06C199-01	5.0ML	1.0	<2		
20	667	06C204-01	↓	↓	↓		
21	668	↓ 03	↓	↓	↓		
22	RCC 669	06C176-04T	50µL	100		✓	for confirmation only. CGM 3/29/06
23							
24							
25							CGM 3/29/06

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	3/23/06
ICAL ID	V067C23

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	SV1C-10-47-3	500
DCC	42-2	50/250
DCC	48-1	250
BFB	70-3	50
IS/SURR.	48-3	250
LCS	44-3	250
LCS	42-3	50/250
LCS	20-2	250

SOLVENT	ID
METHANOL	
DATA FILE	06C29

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO67	

Comments:

Analyzed By: CGM

Date Disposed:

Disposed By:

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 06C204

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C204

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

One (1) water sample was received on 03/23/06 for Semi Volatile Organic analysis by Method 3520C/8270C in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blank was free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit except 3,3-Dichlorobenzidine in LCS was below 10% but met QC in LCSD. RPD was above QC.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Sample was analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C204
Instrument ID : T-041

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	SVC031WB	1	NA	03/30/0613:26	03/27/0611:00	RCH371	RCH189	SVC031W	Method Blank
LCS1W	SVC031WL	1	NA	03/30/0613:51	03/27/0611:00	RCH372	RCH189	SVC031W	Lab Control Sample (LCS)
LCD1W	SVC031WC	1	NA	03/30/0614:16	03/27/0611:00	RCH373	RCH189	SVC031W	LCS Duplicate
M-120	C204-01	.94	NA	03/30/0614:41	03/27/0611:00	RCH374	RCH189	SVC031W	Field Sample

FN - Filename
% Moist - Percent Moisture

2005

SAMPLE RESULTS

SW 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/27/06 11:00
Sample ID	: M-120	Date Analyzed:	03/30/06 14:41
Lab Samp ID	: C204-01	Dilution Factor:	.94
Lab File ID	: RCH374	Matrix	: WATER
Ext Btch ID	: SVC031W	% Moisture	: NA
Calib. Ref.	: RCH189	Instrument ID	: T-041

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2-DICHLOROBENZENE	ND	9.4	4.7
1,3-DICHLOROBENZENE	ND	9.4	4.7
1,4-DICHLOROBENZENE	ND	9.4	4.7
2,4,5-TRICHLOROPHENOL	ND	9.4	4.7
2,4,6-TRICHLOROPHENOL	ND	9.4	4.7
2,4-DICHLOROPHENOL	ND	9.4	4.7
2,4-DIMETHYLPHENOL	ND	9.4	4.7
2,4-DINITROPHENOL	ND	19	4.7
2,4-DINITROTOLUENE	ND	9.4	4.7
2,6-DINITROTOLUENE	ND	9.4	4.7
2-CHLORONAPHTHALENE	ND	9.4	4.7
2-CHLOROPHENOL	ND	9.4	4.7
2-METHYLPHENOL	ND	9.4	4.7
2-NITROANILINE	ND	9.4	4.7
2-NITROPHENOL	ND	9.4	4.7
3,3'-DICHLOROBENZIDINE	ND	9.4	4.7
3-NITROANILINE	ND	9.4	4.7
4,6-DINITRO-2-METHYLPHENOL	ND	19	4.7
4-BROMOPHENYL-PHENYL ETHER	ND	9.4	4.7
4-CHLORO-3-METHYLPHENOL	ND	9.4	4.7
4-CHLOROANILINE	ND	9.4	4.7
4-CHLOROPHENYL-PHENYL ETHER	ND	9.4	4.7
4-METHYLPHENOL (1)	ND	9.4	4.7
4-NITROANILINE	ND	9.4	4.7
4-NITROPHENOL	ND	19	4.7
BIS(2-CHLOROETHOXY)METHANE	ND	9.4	4.7
BIS(2-CHLOROETHYL)ETHER	ND	9.4	4.7
BIS(2-CHLOROISOPROPYL)ETHER	ND	9.4	4.7
BIS(2-ETHYLHEXYL)PHTHALATE	ND	9.4	4.7
BUTYLBENZYLPHTHALATE	ND	9.4	4.7
DI-N-BUTYLPHTHALATE	ND	9.4	4.7
DI-N-OCTYLPHTHALATE	ND	9.4	4.7
DIBENZOFURAN	ND	9.4	4.7
DIETHYLPHTHALATE	ND	9.4	4.7
DIMETHYLPHTHALATE	ND	9.4	4.7
HEXACHLOROBUTADIENE	ND	9.4	4.7
HEXACHLOROCYCLOPENTADIENE	ND	9.4	4.7
HEXACHLOROETHANE	ND	9.4	4.7
ISOPHORONE	ND	9.4	4.7
N-NITROSO-DI-N-PROPYLAMINE	ND	9.4	4.7
N-NITROSODIPHENYLAMINE (2)	ND	9.4	4.7
NITROBENZENE	ND	9.4	4.7
PHENOL	ND	9.4	4.7
BENZOIC ACID	ND	19	9.4
BENZYL ALCOHOL	ND	9.4	4.7
CARBAZOLE	ND	9.4	4.7
PYRIDINE	ND	38	19
OCTACHLOROSTYRENE	ND	9.4	4.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	77	30-150
2-FLUOROBIPHENYL	62	30-130
2-FLUOROPHENOL	57	20-130
NITROBENZENE-D5	69	30-130
PHENOL-D5	58	30-130
TERPHENYL-D14	95	30-130

RL: Reporting Limit
(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH374.D Vial: 9
Acq On : 30 Mar 2006 14:41 Operator: SG
Sample : 06C204-01 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:47 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

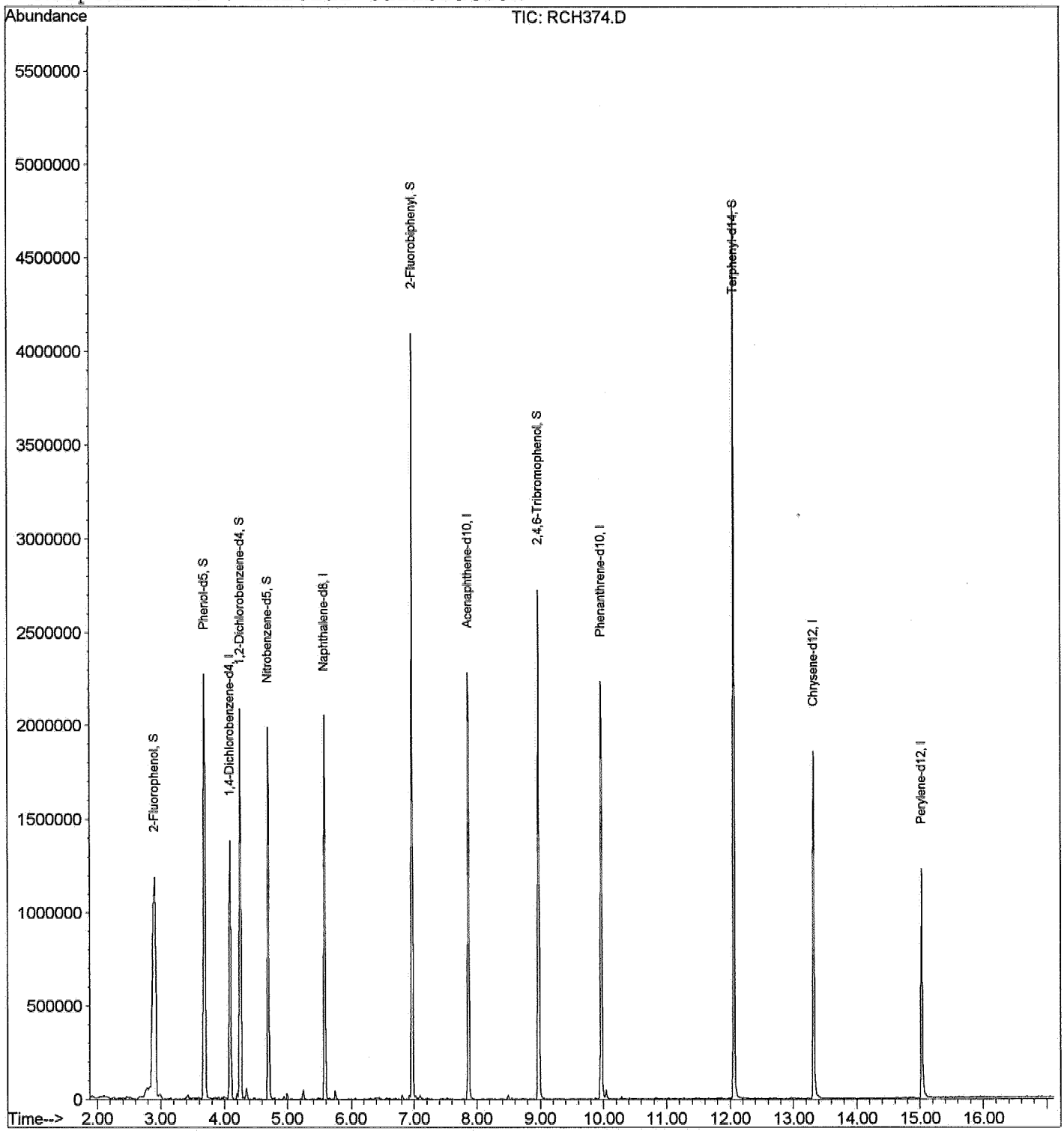
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.09	152	392565	40.00	ng	0.00
20) Naphthalene-d8	5.58	136	1380762	40.00	ng	-0.01
35) Acenaphthene-d10	7.86	164	775878	40.00	ng	-0.01
59) Phenanthrene-d10	9.96	188	1269057	40.00	ng	-0.01
68) Chrysene-d12	13.32	240	908785	40.00	ng	0.00
77) Perylene-d12	15.02	264	576508	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.91	112	1008216	86.06	ng	0.00
Spiked Amount 150.000			Recovery = 57.37%			
8) Phenol-d5	3.69	99	1293007	86.38	ng	0.00
Spiked Amount 150.000			Recovery = 57.59%			
13) 1,2-Dichlorobenzene-d4	4.26	152	552292	60.79	ng	-0.01
Spiked Amount 100.000			Recovery = 60.79%			
21) Nitrobenzene-d5	4.70	82	895288	68.63	ng	-0.01
Spiked Amount 100.000			Recovery = 68.63%			
39) 2-Fluorobiphenyl	6.97	172	1627315	61.95	ng	0.00
Spiked Amount 100.000			Recovery = 61.95%			
58) 2,4,6-Tribromophenol	8.97	330	466225	115.56	ng	0.00
Spiked Amount 150.000			Recovery = 77.04%			
71) Terphenyl-d14	12.06	244	1861170	94.67	ng	0.00
Spiked Amount 100.000			Recovery = 94.67%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH374.D Vial: 9
Acq On : 30 Mar 2006 14:41 Operator: SG
Sample : 06C204-01 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:47 2006 Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration



3006

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH374.D Vial: 9
Acq On : 30 Mar 2006 14:41 Operator: SG
Sample : 06C204-01 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:44 2006 Quant Results File: SV41C16B.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.96	188	1269057	40.00	ng	-0.01

System Monitoring Compounds

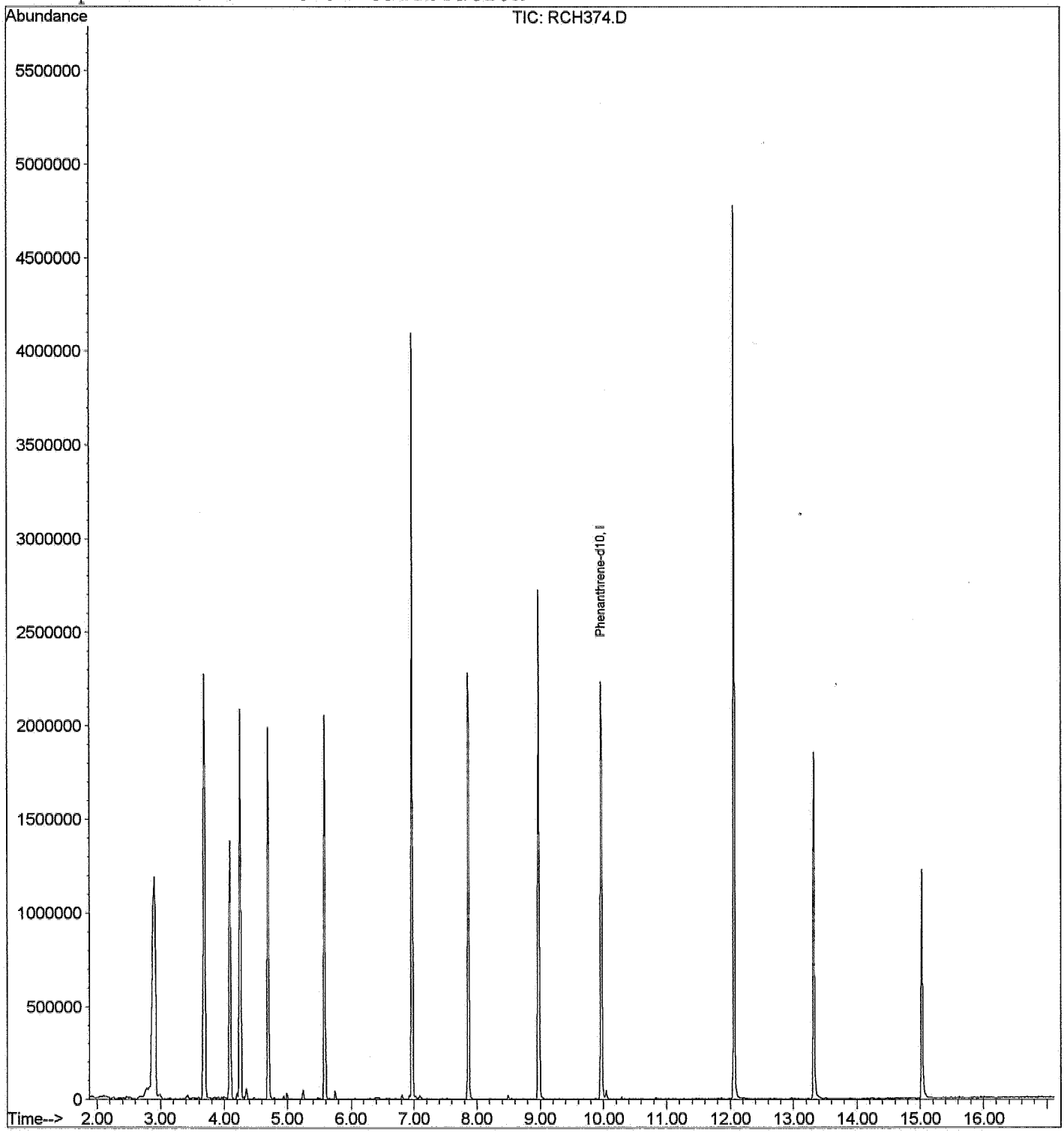
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH374.D Vial: 9
Acq On : 30 Mar 2006 14:41 Operator: SG
Sample : 06C204-01 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:44 2006 Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration



QC SUMMARY

SW 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/27/06
Batch No.	: 06C204	Date Extracted:	03/27/06 11:00
Sample ID:	MBLK1W	Date Analyzed:	03/30/06 13:26
Lab Samp ID:	SVC031WB	Dilution Factor:	1
Lab File ID:	RCH371	Matrix :	WATER
Ext Btch ID:	SVC031W	% Moisture :	NA
Calib. Ref.:	RCH189	Instrument ID :	T-041

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2-DICHLOROBENZENE	ND	10	5
1,3-DICHLOROBENZENE	ND	10	5
1,4-DICHLOROBENZENE	ND	10	5
2,4,5-TRICHLOROPHENOL	ND	10	5
2,4,6-TRICHLOROPHENOL	ND	10	5
2,4-DICHLOROPHENOL	ND	10	5
2,4-DIMETHYLPHENOL	ND	10	5
2,4-DINITROPHENOL	ND	20	5
2,4-DINITROTOLUENE	ND	10	5
2,6-DINITROTOLUENE	ND	10	5
2-CHLORONAPHTHALENE	ND	10	5
2-CHLOROPHENOL	ND	10	5
2-METHYLPHENOL	ND	10	5
2-NITROANILINE	ND	10	5
2-NITROPHENOL	ND	10	5
3,3'-DICHLOROBENZIDINE	ND	10	5
3-NITROANILINE	ND	10	5
4,6-DINITRO-2-METHYLPHENOL	ND	20	5
4-BROMOPHENYL-PHENYL ETHER	ND	10	5
4-CHLORO-3-METHYLPHENOL	ND	10	5
4-CHLOROANILINE	ND	10	5
4-CHLOROPHENYL-PHENYL ETHER	ND	10	5
4-METHYLPHENOL (1)	ND	10	5
4-NITROANILINE	ND	10	5
4-NITROPHENOL	ND	20	5
BIS(2-CHLOROETHOXY)METHANE	ND	10	5
BIS(2-CHLOROETHYL)ETHER	ND	10	5
BIS(2-CHLOROISOPROPYL)ETHER	ND	10	5
BIS(2-ETHYLHEXYL)PHTHALATE	ND	10	5
BUTYLBENZYLPHTHALATE	ND	10	5
DI-N-BUTYLPHTHALATE	ND	10	5
DI-N-OCTYLPHTHALATE	ND	10	5
DIBENZOFURAN	ND	10	5
DIETHYLPHTHALATE	ND	10	5
DIMETHYLPHTHALATE	ND	10	5
HEXACHLOROBUTADIENE	ND	10	5
HEXACHLOROCYCLOPENTADIENE	ND	10	5
HEXACHLOROETHANE	ND	10	5
ISOPHORONE	ND	10	5
N-NITROSO-DI-N-PROPYLAMINE	ND	10	5
N-NITROSODIPHENYLAMINE (2)	ND	10	5
NITROBENZENE	ND	10	5
PHENOL	ND	10	5
BENZOIC ACID	ND	20	10
BENZYL ALCOHOL	ND	10	5
CARBAZOLE	ND	10	5
PYRIDINE	ND	40	20
OCTACHLOROSTYRENE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	67	40-140
2-FLUOROBIPHENYL	55	40-130
2-FLUOROPHENOL	50	30-130
NITROBENZENE-D5	53	40-130
PHENOL-D5	53	30-130
TERPHENYL-D14	92	50-130

RL: Reporting Limit
(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: SW 3520C/8270C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: SVC031WB SVC031WL SVC031WC
LAB FILE ID: RCH371 RCH372 RCH373
DATE EXTRACTED: 03/27/0611:00 03/27/0611:00 03/27/0611:00 DATE COLLECTED: NA
DATE ANALYZED: 03/30/0613:26 03/30/0613:51 03/30/0614:16 DATE RECEIVED: 03/27/06
PREP. BATCH: SVC031W SVC031W SVC031W
CALIB. REF: RCH189 RCH189 RCH189

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,2-Dichlorobenzene	ND	80	55.2	69	80	49.8	62	10	30-130	30
1,3-Dichlorobenzene	ND	80	51.7	65	80	46.1	58	11	30-130	30
1,4-Dichlorobenzene	ND	80	52.5	66	80	47.3	59	10	30-130	30
2,4,5-Trichlorophenol	ND	80	66.6	83	80	70	88	5	40-130	30
2,4,6-Trichlorophenol	ND	80	64.3	80	80	70.1	88	8	40-130	30
2,4-Dichlorophenol	ND	80	61.6	77	80	58.9	74	4	40-130	30
2,4-Dimethylphenol	ND	80	60.1	75	80	55.1	69	9	30-130	30
2,4-Dinitrophenol	ND	80	58.8	73	80	61.5	77	5	30-130	30
2,4-Dinitrotoluene	ND	80	71.1	89	80	69.2	87	3	40-130	30
2,6-Dinitrotoluene	ND	80	64.9	81	80	64.7	81	0	50-130	30
2-Chloronaphthalene	ND	80	62.3	78	80	67.3	84	8	40-130	30
2-Chlorophenol	ND	80	62	77	80	50.6	63	20	30-130	30
2-Methylphenol	ND	80	62.9	79	80	58.9	74	7	30-130	30
2-Nitroaniline	ND	80	69	86	80	75.2	94	9	40-130	30
2-Nitrophenol	ND	80	61.4	77	80	61.7	77	1	40-130	30
3,3'-Dichlorobenzidine	ND	80	6.99J	9*	80	16.1	20	79*	20-140	30
3-Nitroaniline	ND	80	69.2	87	80	63.7	80	8	50-130	30
4,6-Dinitro-2-Methylphenol	ND	80	70.8	88	80	69.1	86	2	50-130	30
4-Bromophenyl-phenyl ether	ND	80	72.6	91	80	68.2	85	6	50-130	30
4-Chloro-3-Methylphenol	ND	80	70.4	88	80	66.5	83	6	40-130	30
4-Chloroaniline	ND	80	52.1	65	80	56.5	71	8	30-130	30
4-Chlorophenyl-phenyl ether	ND	80	64.7	81	80	61.3	77	6	50-130	30
4-Methylphenol	ND	80	62.3	78	80	57.3	72	8	30-130	30
4-Nitroaniline	ND	80	70.4	88	80	65.8	82	7	50-130	30
4-Nitrophenol	ND	80	69.4	87	80	65.2	81	6	30-130	30
bis(2-Chloroethoxy)methane	ND	80	63.1	79	80	62.9	79	0	40-130	30
bis(2-Chloroethyl)ether	ND	80	67.3	84	80	56.7	71	17	30-130	30
bis(2-Chloroisopropyl)ether	ND	80	63.6	80	80	59.3	74	7	20-130	30
bis(2-Ethylhexyl)phthalate	ND	80	80.7	101	80	78.4	98	3	50-140	30
Butylbenzylphthalate	ND	80	83.1	104	80	77.7	97	7	50-130	30
Di-n-butylphthalate	ND	80	72.1	90	80	75	94	4	50-140	30
Di-n-octylphthalate	ND	80	81.2	102	80	75.6	94	7	50-150	30
Dibenzofuran	ND	80	62.1	78	80	58.6	73	6	50-130	30
Diethylphthalate	ND	80	76.9	96	80	71.4	89	8	50-130	30
Dimethylphthalate	ND	80	71.4	89	80	67.7	85	5	50-130	30
Hexachlorobutadiene	ND	80	53.4	67	80	51.1	64	5	20-130	30
Hexachlorocyclopentadiene	ND	80	39.2	49	80	45.6	57	15	10-130	30
Hexachloroethane	ND	80	51.7	65	80	48.3	60	7	20-130	30
Isophorone	ND	80	72.8	91	80	71	89	3	40-130	30
n-Nitroso-di-n-propylamine	ND	80	72.7	91	80	68.8	86	5	30-130	30
n-Nitrosodiphenylamine	ND	80	46.7	58	80	45.1	56	4	10-150	30
Nitrobenzene	ND	80	64.5	81	80	65.8	82	2	30-130	30
Phenol	ND	80	60.4	76	80	49.5	62	20	20-130	30
Benzoic Acid	ND	80	48.6	61	80	50.1	63	3	10-130	30
Benzyl Alcohol	ND	80	65.7	82	80	62.9	79	4	30-130	30
Carbazole	ND	80	80	100	80	73.4	92	9	60-130	30
Pyridine	ND	80	29.7J	37	80	34J	43	13	10-130	30
Octachlorostyrene	ND	80	77.7	97	80	78.7	98	0	30-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
2,4,6-Tribromophenol	150	124	83	150	118	78	40-140
2-Fluorobiphenyl	100	68.7	69	100	75.7	76	40-130
2-Fluorophenol	150	95.4	64	150	79.4	53	30-130
Nitrobenzene-d5	100	69.3	69	100	72.7	73	40-130
Phenol-d5	150	101	67	150	81.5	54	30-130
Terphenyl-d14	100	105	105	100	95.9	96	50-130

QC DATA

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH371.D Vial: 6
Acq On : 30 Mar 2006 13:26 Operator: SG
Sample : SVC031WB Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:45 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.09	152	423741	40.00	ng	0.00
20) Naphthalene-d8	5.58	136	1516489	40.00	ng	-0.01
35) Acenaphthene-d10	7.87	164	856452	40.00	ng	0.00
59) Phenanthrene-d10	9.97	188	1363497	40.00	ng	0.00
68) Chrysene-d12	13.32	240	1043094	40.00	ng	0.00
77) Perylene-d12	15.03	264	648585	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.91	112	941482	74.45	ng	0.00
Spiked Amount 150.000			Recovery =	49.63%		
8) Phenol-d5	3.69	99	1276083	78.98	ng	0.00
Spiked Amount 150.000			Recovery =	52.65%		
13) 1,2-Dichlorobenzene-d4	4.25	152	485855	49.54	ng	-0.01
Spiked Amount 100.000			Recovery =	49.54%		
21) Nitrobenzene-d5	4.70	82	752689	52.54	ng	-0.01
Spiked Amount 100.000			Recovery =	52.54%		
39) 2-Fluorobiphenyl	6.97	172	1588317	54.77	ng	0.00
Spiked Amount 100.000			Recovery =	54.77%		
58) 2,4,6-Tribromophenol	8.97	330	444443	99.80	ng	0.00
Spiked Amount 150.000			Recovery =	66.53%		
71) Terphenyl-d14	12.06	244	2075884	91.99	ng	0.00
Spiked Amount 100.000			Recovery =	91.99%		
Target Compounds						Qvalue

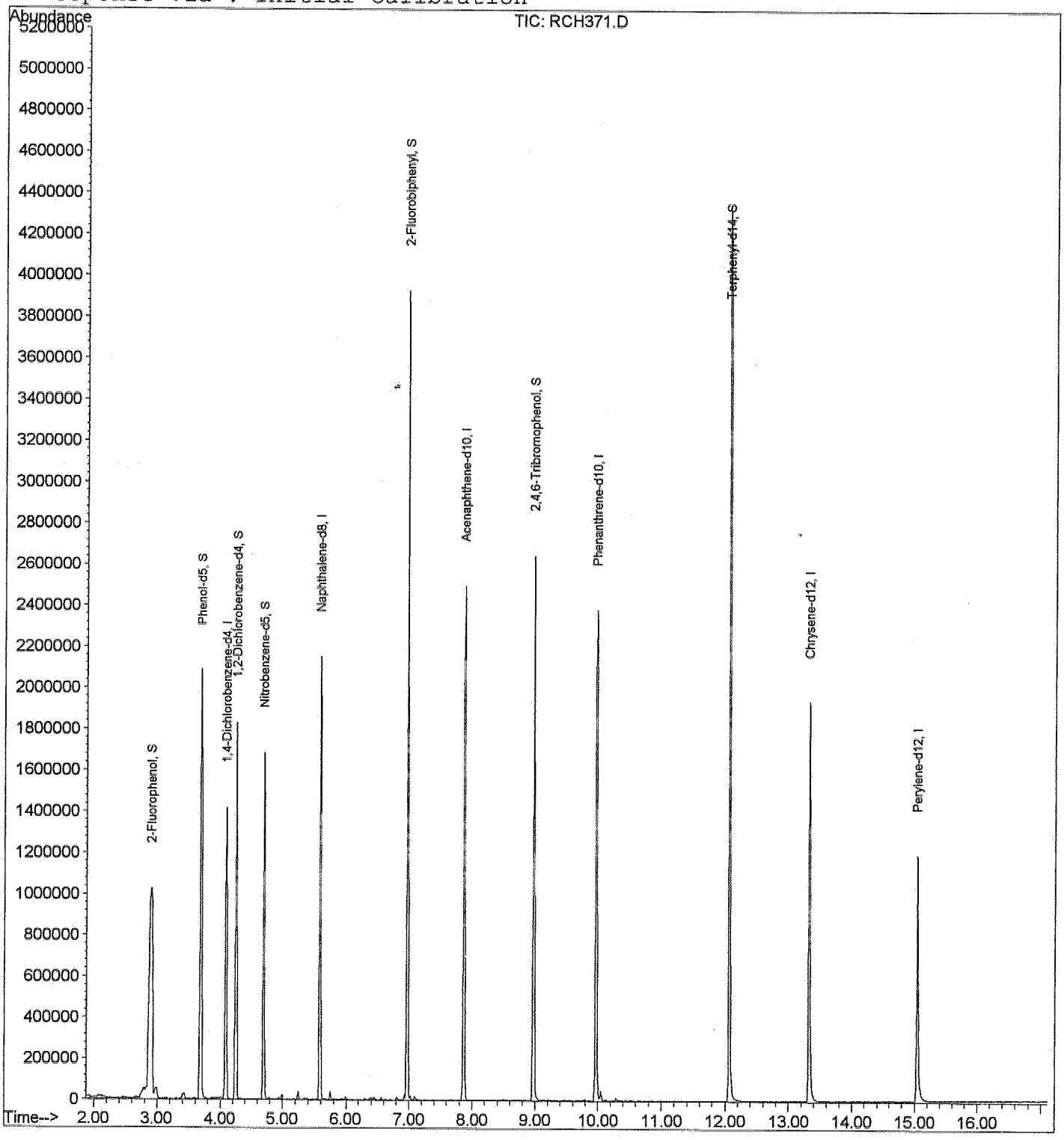
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\06C30\RCH371.D
Acq On : 30 Mar 2006 13:26
Sample : SVC031WB
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:45 2006

Vial: 6
Operator: SG
Inst : TO41
Multiplr: 1.00

Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH371.D Vial: 6
Acq On : 30 Mar 2006 13:26 Operator: SG
Sample : SVC031WB Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:42 2006 Quant Results File: SV41C16B.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.97	188	1363497	40.00	ng	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

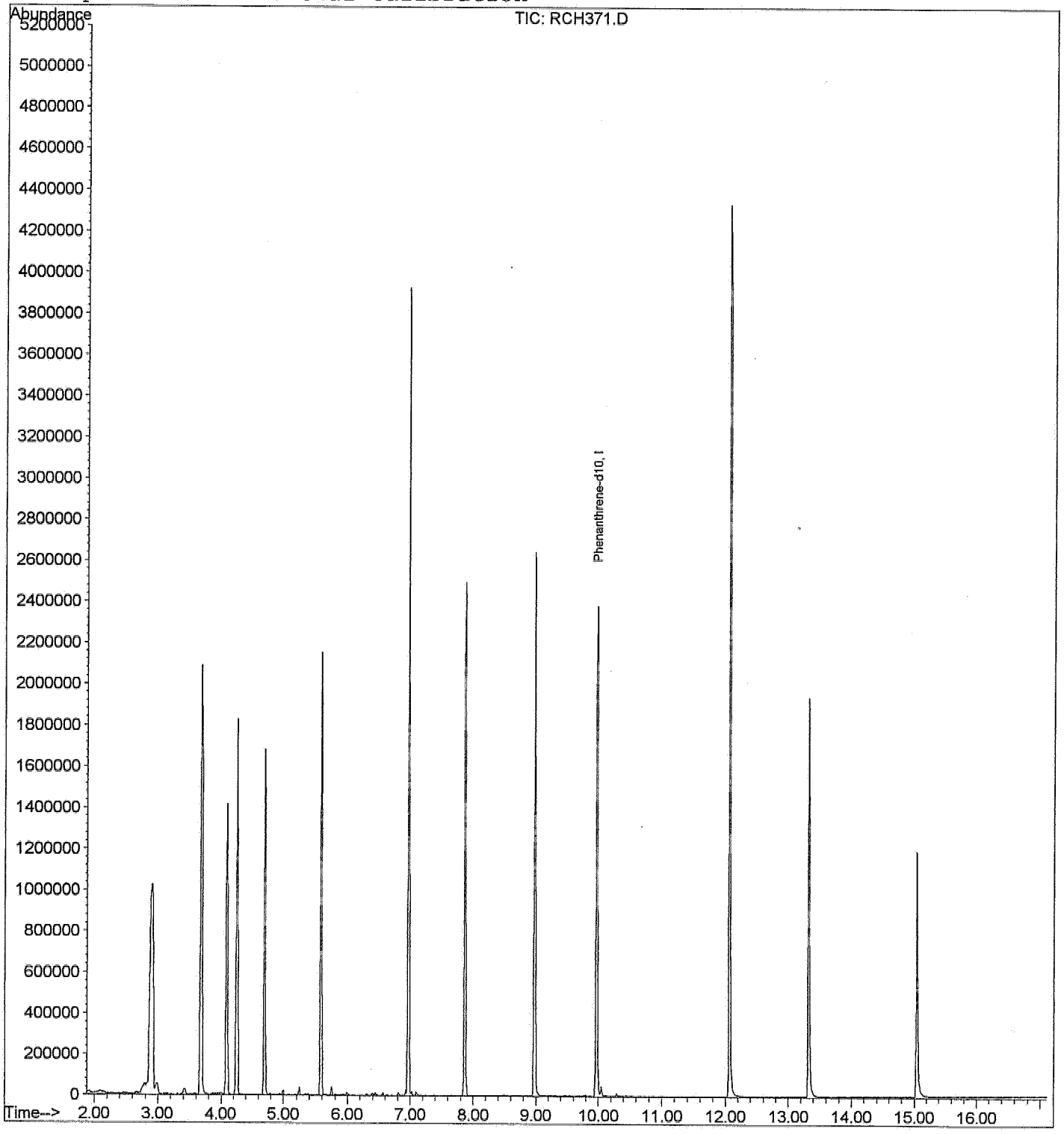
Quantitation Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH371.D
Acq On : 30 Mar 2006 13:26
Sample : SVC031WB
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:42 2006

Vial: 6
Operator: SG
Inst : TO41
Multiplr: 1.00

Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH372.D Vial: 7
Acq On : 30 Mar 2006 13:51 Operator: SG
Sample : SVC031WL Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 14:09 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.10	152	368885	40.00	ng	0.00
20) Naphthalene-d8	5.59	136	1352857	40.00	ng	0.00
35) Acenaphthene-d10	7.86	164	726480	40.00	ng	0.00
59) Phenanthrene-d10	9.97	188	1034278	40.00	ng	0.00
68) Chrysene-d12	13.33	240	604134	40.00	ng	0.00
77) Perylene-d12	15.03	264	346464	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.90	112	1050436	95.42	ng	0.00
Spiked Amount 150.000			Recovery =	63.61%		
8) Phenol-d5	3.69	99	1421196	101.04	ng	0.00
Spiked Amount 150.000			Recovery =	67.36%		
13) 1,2-Dichlorobenzene-d4	4.26	152	519782	60.88	ng	0.00
Spiked Amount 100.000			Recovery =	60.88%		
21) Nitrobenzene-d5	4.71	82	885893	69.31	ng	0.00
Spiked Amount 100.000			Recovery =	69.31%		
39) 2-Fluorobiphenyl	6.97	172	1690274	68.72	ng	0.00
Spiked Amount 100.000			Recovery =	68.72%		
58) 2,4,6-Tribromophenol	8.98	330	468051	123.90	ng	0.00
Spiked Amount 150.000			Recovery =	82.60%		
71) Terphenyl-d14	12.06	244	1369751	104.80	ng	0.00
Spiked Amount 100.000			Recovery =	104.80%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.09	74	381511	53.23	ng	91
3) Pyridine	2.10	79	369521	29.73	ng	100
5) Phenol	3.70	94	917526	60.44	ng	90
6) Aniline	3.76	93	359123	23.03	ng	97
7) Bis(2-chloroethyl)ether	3.81	93	768985	67.28	ng	97
9) 2-Chlorophenol	3.88	128	759391	61.95	ng	97
10) 1,3-Dichlorobenzene	4.04	146	695688	51.69	ng	98
11) 1,4-Dichlorobenzene	4.11	146	709865	52.46	ng	95
12) Benzyl alcohol	4.24	108	509891	65.70	ng	98
14) 1,2-Dichlorobenzene	4.27	146	697520	55.24	ng	99
15) 2-Methylphenol	4.34	107	616876	62.89	ng	95
16) Bis(2-chloroisopropyl)ethe	4.38	45	1190191	63.64	ng	99
17) 4-Methylphenol	4.52	107	900380	62.33	ng	93
18) N-Nitroso-di-n-propylamine	4.54	70	659760	72.69	ng	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\06C30\RCH372.D
Acq On : 30 Mar 2006 13:51
Sample : SVC031WL
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 30 14:09 2006

Vial: 7
Operator: SG
Inst : TO41
Multiplr: 1.00
Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
19)	Hexachloroethane	4.64	117	267276	51.72 ng	90
22)	Nitrobenzene	4.74	77	846176	64.52 ng	98
23)	Isophorone	5.02	82	1670511	72.84 ng	99
24)	2-Nitrophenol	5.11	139	435752	61.38 ng	96
25)	2,4-Dimethylphenol	5.16	122	660681	60.14 ng	98
26)	bis(2-Chloroethoxy)methane	5.28	93	940328	63.10 ng	99
27)	Benzoic Acid	5.31	122	374441	48.57 ng	91
28)	2,4-Dichlorophenol	5.40	162	688795	61.56 ng	96
29)	1,2,4-Trichlorobenzene	5.52	180	678811	56.25 ng	98
30)	Naphthalene	5.62	128	2009427	59.00 ng	100
31)	4-Chloroaniline	5.69	127	779633	52.12 ng	97
32)	Hexachlorobutadiene	5.78	225	364413	53.43 ng	98
33)	4-Chloro-3-methylphenol	6.29	107	797603	70.36 ng	91
34)	2-Methylnaphthalene	6.49	142	1304638	57.91 ng	97
36)	Hexachlorocyclopentadiene	6.68	237	177307	39.19 ng	100
37)	2,4,6-Trichlorophenol	6.85	196	530617	64.35 ng	97
38)	2,4,5-Trichlorophenol	6.89	196	522887	66.62 ng	96
40)	2-Chloronaphthalene	7.11	162	1335478	62.33 ng	98
41)	2-Nitroaniline	7.27	65	578012	69.01 ng	96
42)	Dimethylphthalate	7.53	163	1820429	71.40 ng	99
43)	2,6-Dinitrotoluene	7.61	165	402218	64.93 ng	97
44)	Acenaphthylene	7.67	152	2070544	67.08 ng	97
45)	3-Nitroaniline	7.83	138	465371	69.22 ng	95
46)	Acenaphthene	7.91	154	1264377	63.20 ng	97
47)	2,4-Dinitrophenol	7.97	184	233989	58.79 ng	85
48)	4-Nitrophenol	8.08	109	245847	69.39 ng	92
49)	Dibenzofuran	8.16	168	1841589	62.06 ng	99
50)	2,4-Dinitrotoluene	8.16	165	559119	71.12 ng	95
51)	Diethylphthalate	8.52	149	1820908	76.95 ng	96
52)	Fluorene	8.63	166	1548029	67.61 ng	98
53)	4-Chlorophenyl-phenylether	8.65	204	759719	64.75 ng	90
54)	4-Nitroaniline	8.70	138	454532	70.36 ng	92
55)	4,6-Dinitro-2-methylphenol	8.73	198	361062	70.79 ng	88
56)	N-Nitrosodiphenylamine	8.82	169	741885	46.67 ng	97
57)	Azobenzene	8.88	77	1654718	67.11 ng	94
60)	4-Bromophenyl-phenylether	9.35	248	474578	72.60 ng	93
61)	Hexachlorobenzene	9.41	284	554771	75.63 ng	95
62)	Pentachlorophenol	9.69	266	393018	75.79 ng	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH372.D Vial: 7
Acq On : 30 Mar 2006 13:51 Operator: SG
Sample : SVC031WL Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 14:09 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

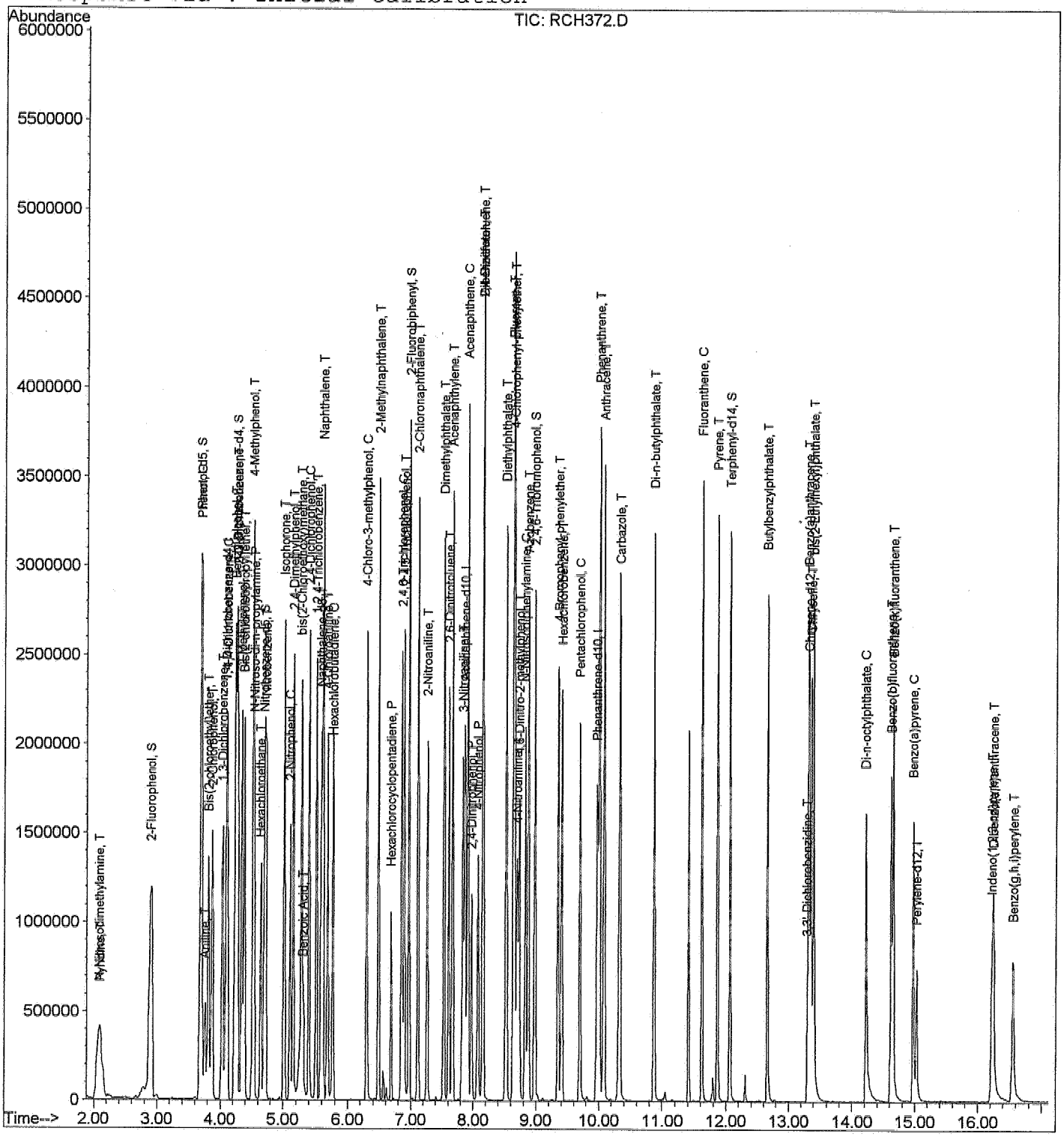
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63)	Phenanthrene	10.01	178	2258066	73.66	ng	98
64)	Anthracene	10.08	178	2184522	74.65	ng	99
65)	Carbazole	10.33	167	2132821	79.95	ng	100
66)	Di-n-butylphthalate	10.87	149	2258238	72.07	ng	98
67)	Fluoranthene	11.62	202	1760083	69.11	ng	99
70)	Pyrene	11.86	202	1800205	81.04	ng	99
72)	Butylbenzylphthalate	12.66	149	781849	83.06	ng	89
73)	3,3'-Dichlorobenzidine	13.30	252	17173	6.99	ng	89
74)	Benzo(a)anthracene	13.32	228	1326669	85.69	ng	99
75)	Chrysene	13.37	228	1371137	83.03	ng	100
76)	bis(2-Ethylhexyl)phthalate	13.40	149	890858	80.68	ng	98
78)	Di-n-octylphthalate	14.22	149	1339984	81.25	ng	82
79)	Benzo(b)fluoranthene	14.62	252	1017802	76.41	ng	97
80)	Benzo(k)fluoranthene	14.65	252	1196814	101.88	ng	97
81)	Benzo(a)pyrene	14.97	252	975040	85.65	ng	96
82)	Indeno(1,2,3-cd)pyrene	16.22	276	848369	91.31	ng	98
83)	Dibenzo(a,h)anthracene	16.24	278	694734	86.55	ng	96
84)	Benzo(g,h,i)perylene	16.56	276	693208	88.79	ng	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH372.D Vial: 7
Acq On : 30 Mar 2006 13:51 Operator: SG
Sample : SVC031WL Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 14:09 2006 Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration



3020

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH372.D Vial: 7
Acq On : 30 Mar 2006 13:51 Operator: SG
Sample : SVC031WL Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:43 2006 Quant Results File: SV41C16B.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.97	188	1034278	40.00	ng	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Octachlorostyrene	11.41	308	153997	77.73	ng	77

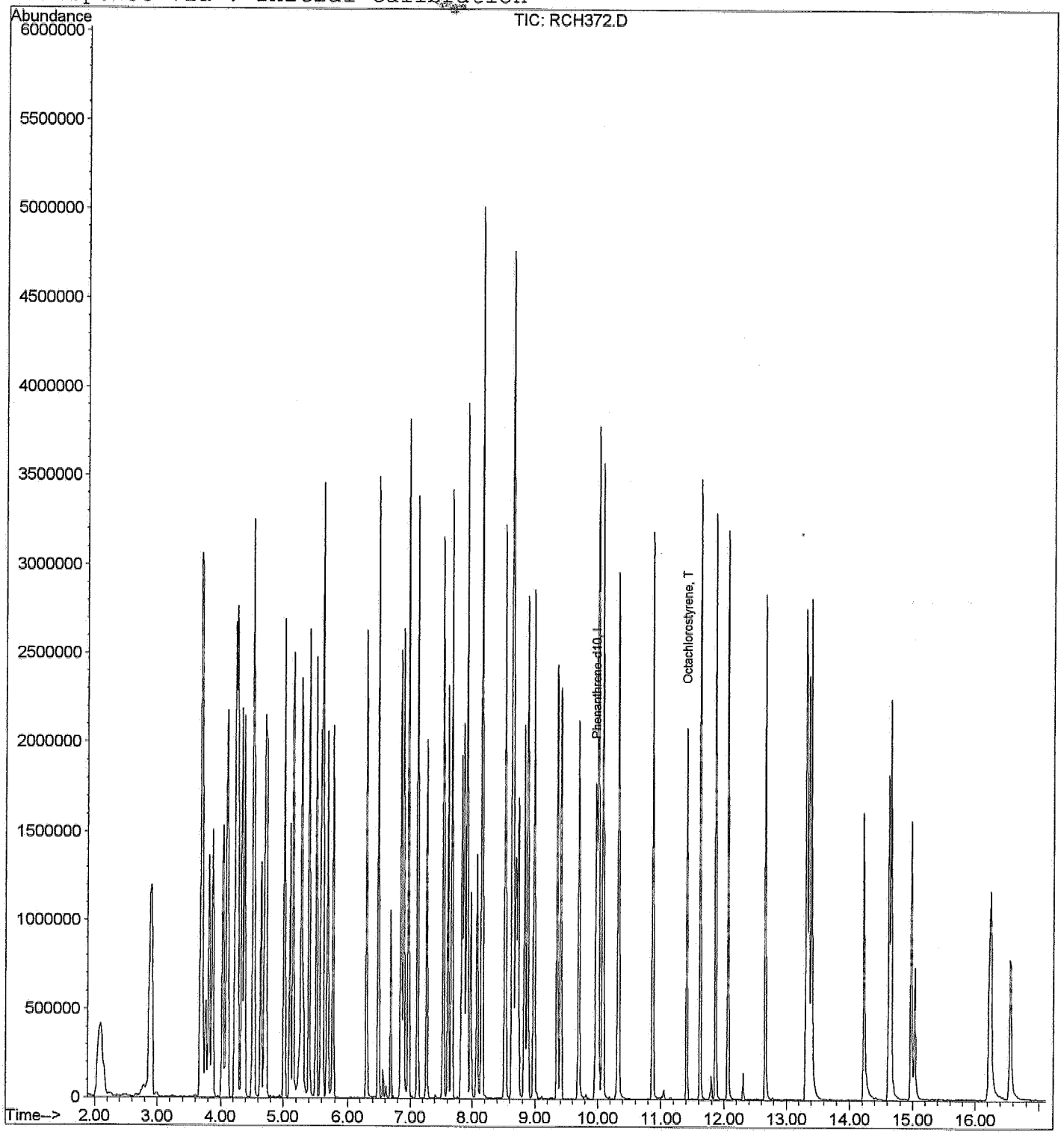
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\06C30\RCH372.D
Acq On : 30 Mar 2006 13:51
Sample : SVC031WL
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:43 2006

Vial: 7
Operator: SG
Inst : TO41
Multiplr: 1.00

Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH373.D
Acq On : 30 Mar 2006 14:16
Sample : SVC031WC
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 30 14:34 2006

Vial: 8
Operator: SG
Inst : TO41
Multiplr: 1.00
Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.10	152	403260	40.00	ng	0.00
20) Naphthalene-d8	5.59	136	1422047	40.00	ng	0.00
35) Acenaphthene-d10	7.86	164	680652	40.00	ng	0.00
59) Phenanthrene-d10	9.97	188	1013583	40.00	ng	0.00
68) Chrysene-d12	13.33	240	694340	40.00	ng	0.00
77) Perylene-d12	15.03	264	413960	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.90	112	955099	79.37	ng	0.00
Spiked Amount 150.000			Recovery =	52.91%		
8) Phenol-d5	3.69	99	1253110	81.50	ng	0.00
Spiked Amount 150.000			Recovery =	54.33%		
13) 1,2-Dichlorobenzene-d4	4.26	152	544388	58.33	ng	0.00
Spiked Amount 100.000			Recovery =	58.33%		
21) Nitrobenzene-d5	4.71	82	976604	72.69	ng	0.00
Spiked Amount 100.000			Recovery =	72.69%		
39) 2-Fluorobiphenyl	6.97	172	1744213	75.68	ng	0.00
Spiked Amount 100.000			Recovery =	75.68%		
58) 2,4,6-Tribromophenol	8.98	330	416407	117.65	ng	0.00
Spiked Amount 150.000			Recovery =	78.43%		
71) Terphenyl-d14	12.06	244	1440568	95.90	ng	0.00
Spiked Amount 100.000			Recovery =	95.90%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.08	74	389459	49.71	ng	79
3) Pyridine	2.13	79	462065	34.01	ng	97
5) Phenol	3.71	94	821635	49.51	ng	88
6) Aniline	3.76	93	762397	44.73	ng	97
7) Bis(2-chloroethyl)ether	3.82	93	708829	56.73	ng	98
9) 2-Chlorophenol	3.88	128	677613	50.57	ng	97
10) 1,3-Dichlorobenzene	4.04	146	678533	46.12	ng	97
11) 1,4-Dichlorobenzene	4.11	146	700321	47.34	ng	97
12) Benzyl alcohol	4.23	108	533841	62.92	ng	94
14) 1,2-Dichlorobenzene	4.27	146	687432	49.80	ng	97
15) 2-Methylphenol	4.34	107	631020	58.85	ng	100
16) Bis(2-chloroisopropyl)ethe	4.38	45	1211782	59.27	ng	99
17) 4-Methylphenol	4.52	107	904426	57.27	ng	96
18) N-Nitroso-di-n-propylamine	4.54	70	682974	68.84	ng	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH373.D Vial: 8
Acq On : 30 Mar 2006 14:16 Operator: SG
Sample : SVC031WC Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 14:34 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
19)	Hexachloroethane	4.66	117	272992	48.32	ng	95
22)	Nitrobenzene	4.74	77	907062	65.80	ng	94
23)	Isophorone	5.02	82	1712569	71.04	ng	98
24)	2-Nitrophenol	5.11	139	460421	61.70	ng	95
25)	2,4-Dimethylphenol	5.16	122	635859	55.07	ng	98
26)	bis(2-Chloroethoxy)methane	5.28	93	984616	62.86	ng	98
27)	Benzoic Acid	5.32	122	407882	50.12	ng	88
28)	2,4-Dichlorophenol	5.40	162	692944	58.92	ng	98
29)	1,2,4-Trichlorobenzene	5.52	180	677562	53.42	ng	94
30)	Naphthalene	5.62	128	1973292	55.12	ng	100
31)	4-Chloroaniline	5.69	127	888347	56.50	ng	95
32)	Hexachlorobutadiene	5.77	225	366016	51.06	ng	98
33)	4-Chloro-3-methylphenol	6.30	107	791987	66.46	ng	92
34)	2-Methylnaphthalene	6.49	142	1328671	56.11	ng	98
36)	Hexachlorocyclopentadiene	6.68	237	195937	45.63	ng	98
37)	2,4,6-Trichlorophenol	6.85	196	541227	70.05	ng	97
38)	2,4,5-Trichlorophenol	6.89	196	515059	70.04	ng	97
40)	2-Chloronaphthalene	7.11	162	1350640	67.28	ng	98
41)	2-Nitroaniline	7.27	65	592563	75.19	ng	97
42)	Dimethylphthalate	7.53	163	1617344	67.71	ng	99
43)	2,6-Dinitrotoluene	7.61	165	375481	64.70	ng	99
44)	Acenaphthylene	7.67	152	1840463	63.64	ng	98
45)	3-Nitroaniline	7.83	138	400031	63.71	ng	85
46)	Acenaphthene	7.91	154	1129333	60.25	ng	99
47)	2,4-Dinitrophenol	7.97	184	230739	61.54	ng	88
48)	4-Nitrophenol	8.08	109	215626	65.19	ng	99
49)	Dibenzofuran	8.16	168	1629149	58.60	ng	99
50)	2,4-Dinitrotoluene	8.16	165	509634	69.24	ng	99
51)	Diethylphthalate	8.52	149	1582517	71.38	ng	98
52)	Fluorene	8.63	166	1359084	63.35	ng	99
53)	4-Chlorophenyl-phenylether	8.65	204	673481	61.26	ng	93
54)	4-Nitroaniline	8.70	138	397667	65.81	ng	95
55)	4,6-Dinitro-2-methylphenol	8.73	198	329577	69.09	ng	85
56)	N-Nitrosodiphenylamine	8.83	169	670997	45.06	ng	99
57)	Azobenzene	8.88	77	1450246	62.77	ng	94
60)	4-Bromophenyl-phenylether	9.35	248	436780	68.18	ng	94
61)	Hexachlorobenzene	9.41	284	490296	68.20	ng	98
62)	Pentachlorophenol	9.70	266	338690	66.95	ng	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH373.D Vial: 8
Acq On : 30 Mar 2006 14:16 Operator: SG
Sample : SVC031WC Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 14:34 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) Phenanthrene	10.01	178	1984445	66.06	ng	100
64) Anthracene	10.08	178	1990566	69.41	ng	99
65) Carbazole	10.32	167	1918947	73.40	ng	99
66) Di-n-butylphthalate	10.87	149	2303244	75.00	ng	98
67) Fluoranthene	11.62	202	1824400	73.09	ng	99
70) Pyrene	11.86	202	1875385	73.45	ng	99
72) Butylbenzylphthalate	12.66	149	837994	77.65	ng	95
73) 3,3'-Dichlorobenzidine	13.30	252	78864	16.13	ng	95
74) Benzo(a)anthracene	13.32	228	1442572	81.07	ng	99
75) Chrysene	13.36	228	1433852	75.55	ng	98
76) bis(2-Ethylhexyl)phthalate	13.40	149	994723	78.45	ng	100
78) Di-n-octylphthalate	14.22	149	1479691	75.56	ng	88
79) Benzo(b)fluoranthene	14.62	252	1113109	69.94	ng	97
80) Benzo(k)fluoranthene	14.65	252	1253683	89.32	ng	99
81) Benzo(a)pyrene	14.97	252	1067409	78.48	ng	97
82) Indeno(1,2,3-cd)pyrene	16.22	276	937452	84.45	ng	98
83) Dibenzo(a,h)anthracene	16.24	278	763609	79.79	ng	93
84) Benzo(g,h,i)perylene	16.55	276	753603	80.79	ng	92

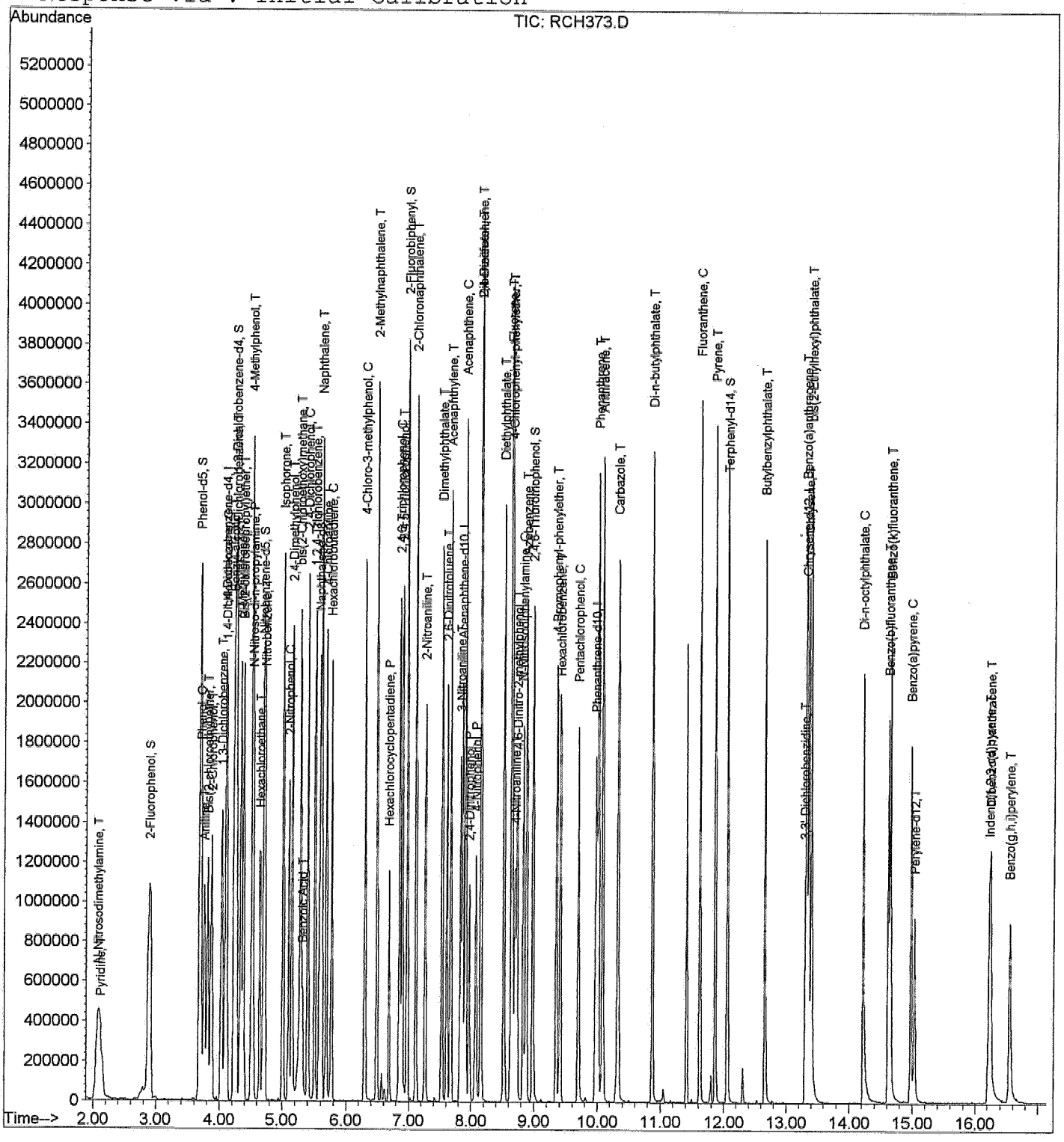
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\06C30\RCH373.D
Acq On : 30 Mar 2006 14:16
Sample : SVC031WC
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 30 14:34 2006

Vial: 8
Operator: SG
Inst : TO41
Multiplr: 1.00

Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\06C30\RCH373.D
Acq On : 30 Mar 2006 14:16
Sample : SVC031WC
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:43 2006

Vial: 8
Operator: SG
Inst : TO41
Multiplr: 1.00

Quant Results File: SV41C16B.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.97	188	1013583	40.00	ng	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Octachlorostyrene	11.41	308	152788	78.69	ng	80

(#) = qualifier out of range (m) = manual integration

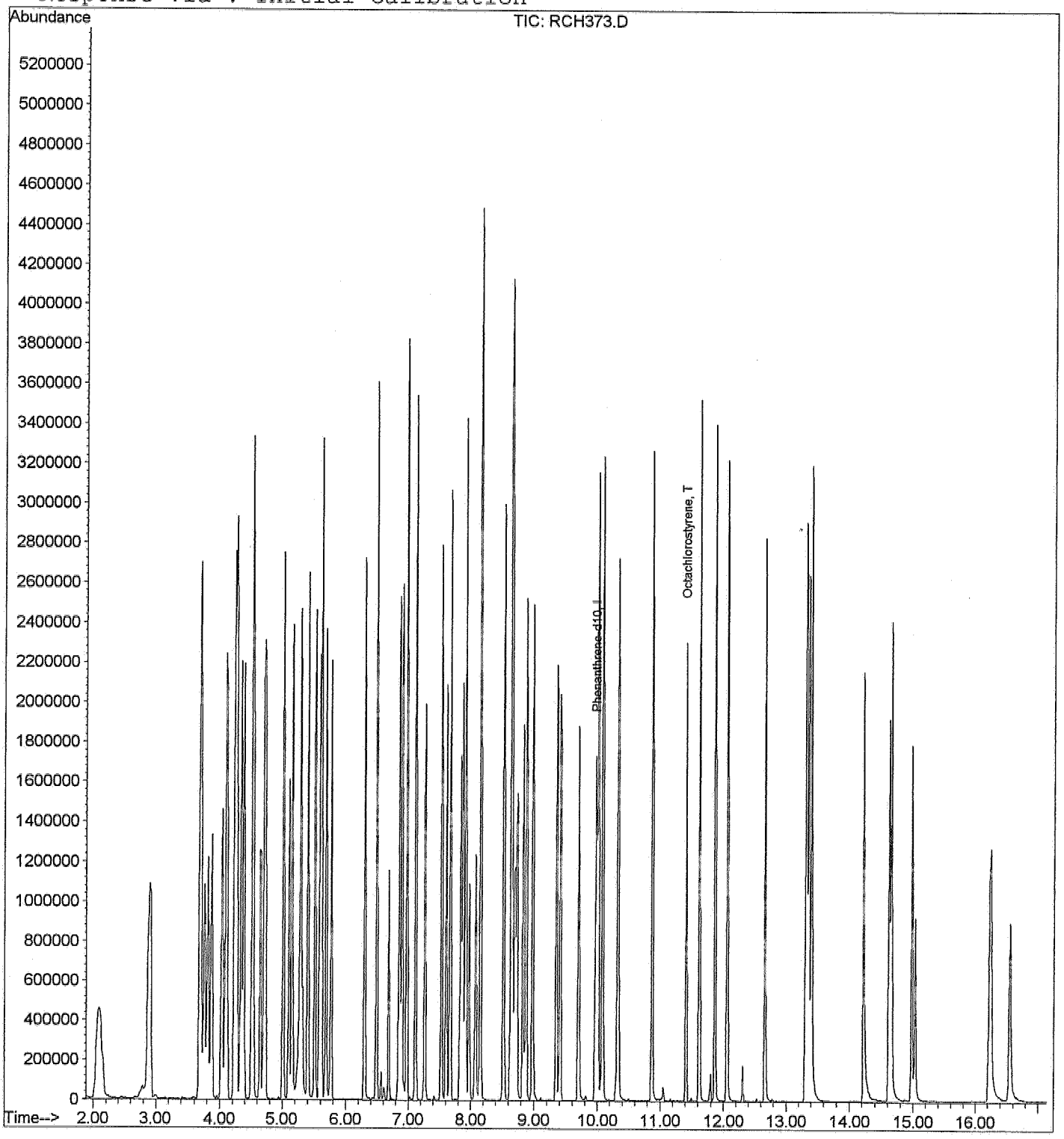
Quantitation Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH373.D
Acq On : 30 Mar 2006 14:16
Sample : SVC031WC
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:43 2006

Vial: 8
Operator: SG
Inst : TO41
Multiplr: 1.00

Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration



INITIAL CALIBRATIONS

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCH184
Instrument ID: T-041

Project: UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C204
DFTPP Injection Date: 03/16/06
DFTPP Injection Time: 11:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.05
68	Less than 2% of mass 69	0.00(0.0)1
69	Relative abundance of mass 198	65.10
70	Less than 2.0% of mass 69	0.00(0.0)1
127	40.0 - 60.0% of mass 198	44.47
197	Less than 1.0% of mass 198	0.28
198	Base Peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	7.27
275	10.0 - 30.0% of mass 198	21.14
365	Greater than 1.00% of mass 198	1.69
441	Present, but less than mass 443	9.45
442	Greater than 40.0% of mass 198	58.01
443	17.0 - 23.0% of mass 442	12.17(21.0)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
1	SSTD005	SV41C161	RCH185	03/16/06	11:29
2	SSTD010	SV41C162	RCH186	03/16/06	11:54
3	SSTD020	SV41C163	RCH187	03/16/06	12:19
4	SSTD040	SV41C164	RCH188	03/16/06	12:44
5	SSTD050	SV41C165	RCH189	03/16/06	13:09
6	SSTD080	SV41C166	RCH190	03/16/06	13:34
7	SSTD100	SV41C167	RCH191	03/16/06	13:59
8	SSTD120	SV41C168	RCH192	03/16/06	14:24
9	SSTD160	SV41C169	RCH193	03/16/06	14:49
10	SSTD050	ISV41C161	RCH194	03/16/06	15:24

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T041
Beginning DateTime :03/16/06 11:29
Spike Units :PPM
IC File :RCH189

Column Spec :ZB-5MS ID :0.18MM
Ending DateTime :03/16/06 14:49
HPChem Method :SV41C16

IDX	Parameters	5 11:29 RCH185	10 11:54 RCH186	20 12:19 RCH187	40 12:44 RCH188	50 13:09 RCH189	80 13:34 RCH190	100 13:59 RCH191	120 14:24 RCH192	160 14:49 RCH193	Av_RRF	%_RSD	Av_Rt_M
1	1,4-Dichlorobenzene-d4	1	1	1	1	1	1	1	1	1	1	0	4.0961
2	N-Nitrosodimethylamine	0.700	0.734	0.755	0.791	0.785	0.814	0.814	0.807	0.794	0.777	5.07	2.0885
3	Pyridine	1.297	1.320	1.290	1.339	1.356	1.373	1.407	1.389	1.359	1.348	2.98	2.1143
4	2-Fluorophenol	1.096	1.127	1.138	1.188	1.235	1.264	1.250	1.236	1.210	1.194	5.04	2.9073
5	Phenol	1.603	1.641	1.614	1.694	1.693	1.698	1.653	1.637	1.582	1.646	2.57	3.7092
6	Aniline	1.681	1.788	1.721	1.693	1.674	1.748	1.664	1.666	1.580	1.691	3.48	3.7688
7	Bis(2-chloroethyl)ether	1.317	1.208	1.282	1.270	1.286	1.240	1.232	1.171	1.148	1.239	4.50	3.8205
8	Phenol-d5	1.583	1.444	1.500	1.529	1.576	1.579	1.546	1.498	1.472	1.525	3.28	3.6934
9	2-Chlorophenol	1.392	1.396	1.340	1.337	1.337	1.340	1.304	1.276	1.241	1.329	3.76	3.8790
10	1,3-Dichlorobenzene	1.583	1.525	1.471	1.485	1.438	1.461	1.424	1.390	1.358	1.459	4.68	4.0365
11	1,4-Dichlorobenzene	1.627	1.595	1.438	1.469	1.447	1.458	1.422	1.406	1.345	1.467	6.09	4.1163
12	Benzyl alcohol	0.723	0.829	0.815	0.878	0.879	0.900	0.886	0.843	0.820	0.842	6.43	4.2344
13	1,2-Dichlorobenzene-d4	1.086	1.035	0.954	0.927	0.934	0.892	0.865	0.842	0.797	0.926	9.89	4.2603
14	1,2-Dichlorobenzene	1.524	1.508	1.396	1.393	1.387	1.358	1.303	1.259	1.196	1.369	7.80	4.2783
15	2-Methylphenol	1.015	1.103	1.074	1.082	1.063	1.104	1.061	1.046	1.025	1.064	2.94	4.3412
16	Bis(2-chloroisopropyl)ether	2.097	2.100	2.013	2.081	2.076	2.037	1.992	1.934	1.921	2.028	3.35	4.3829
17	4-Methylphenol	1.437	1.465	1.539	1.609	1.624	1.646	1.612	1.579	1.587	1.566	4.62	4.5212
18	N-Nitroso-di-n-propylamine	0.900	0.909	1.003	1.000	1.025	1.057	1.004	0.989	0.971	0.984	5.21	4.5426
19	Hexachloroethane	0.593	0.539	0.526	0.555	0.590	0.576	0.563	0.556	0.544	0.560	4.05	4.6528
20	Naphthalene-d8	1	1	1	1	1	1	1	1	1	1	0	5.5908
21	Nitrobenzene-d5	0.291	0.313	0.377	0.384	0.416	0.412	0.405	0.404	0.399	0.378	11.96	4.7113
22	Nitrobenzene	0.356	0.366	0.391	0.400	0.408	0.412	0.394	0.384	0.379	0.388	4.81	4.7327
23	Isophorone	0.651	0.684	0.670	0.686	0.704	0.697	0.681	0.661	0.669	0.678	2.49	5.0206
24	2-Nitrophenol	0.162	0.174	0.209	0.217	0.227	0.229	0.226	0.222	0.223	0.210	11.77	5.1094
25	2,4-Dimethylphenol	0.307	0.314	0.329	0.336	0.339	0.333	0.331	0.319	0.315	0.325	3.51	5.1578
26	bis(2-Chloroethoxy)methane	0.468	0.440	0.451	0.445	0.464	0.436	0.433	0.423	0.405	0.441	4.45	5.2894
27	Benzoic Acid	0.027	0.072	0.147	0.199	0.225	0.249	0.249	0.256	0.247	0.186	45.92	5.3062
28	2,4-Dichlorophenol	0.323	0.324	0.336	0.335	0.346	0.337	0.338	0.321	0.316	0.331	3.05	5.4019
29	1,2,4-Trichlorobenzene	0.388	0.365	0.372	0.359	0.368	0.357	0.342	0.331	0.330	0.357	5.44	5.5166
30	Naphthalene	1.127	1.065	1.052	1.015	1.032	0.982	0.965	0.932	0.893	1.007	7.14	5.6201
31	4-Chloroaniline	0.440	0.425	0.456	0.448	0.470	0.448	0.447	0.426	0.420	0.442	3.67	5.6920
32	Hexachlorobutadiene	0.226	0.206	0.203	0.207	0.206	0.199	0.196	0.188	0.184	0.202	6.07	5.7764
33	4-Chloro-3-methylphenol	0.300	0.310	0.332	0.340	0.361	0.359	0.345	0.339	0.332	0.335	6.03	6.2960
34	2-Methylnaphthalene	0.697	0.690	0.693	0.680	0.696	0.671	0.640	0.627	0.599	0.666	5.32	6.4883
35	Acenaphthene-d10	1	1	1	1	1	1	1	1	1	1	0	7.8695
36	Hexachlorocyclopentadiene	0.141	0.165	0.201	0.233	0.255	0.269	0.265	0.259	0.273	0.229	21.36	6.6863
37	2,4,6-Trichlorophenol	0.431	0.447	0.469	0.439	0.473	0.466	0.449	0.459	0.453	0.454	3.10	6.8494
38	2,4,5-Trichlorophenol	0.345	0.391	0.427	0.446	0.484	0.451	0.469	0.424	0.452	0.432	9.78	6.8876
39	2-Fluorobiphenyl	1.431	1.428	1.444	1.350	1.425	1.312	1.326	1.253	1.219	1.354	6.14	6.9708
40	2-Chloronaphthalene	1.245	1.208	1.241	1.184	1.228	1.149	1.147	1.109	1.107	1.180	4.57	7.1193
41	2-Nitroaniline	0.223	0.294	0.373	0.416	0.454	0.478	0.464	0.470	0.481	0.406	22.66	7.2633
42	Dimethylphthalate	1.360	1.428	1.477	1.374	1.468	1.435	1.381	1.358	1.351	1.404	3.49	7.5354
43	2,6-Dinitrotoluene	0.158	0.213	0.280	0.308	0.347	0.354	0.351	0.342	0.356	0.301	23.66	7.6097
44	Acenaphthylene	1.633	1.705	1.793	1.695	1.799	1.743	1.683	1.624	1.621	1.700	4.00	7.6749
45	3-Nitroaniline	0.218	0.279	0.323	0.342	0.375	0.380	0.375	0.372	0.379	0.338	16.68	7.8335
46	Acenaphthene	1.234	1.172	1.167	1.092	1.129	1.061	1.039	1.027	0.993	1.101	7.22	7.9167
47	2,4-Dinitrophenol	0.040	0.060	0.114	0.175	0.202	0.234	0.232	0.235	0.246	0.171	46.88	7.9718
48	4-Nitrophenol	0.082	0.118	0.158	0.171	0.187	0.205	0.197	0.203	0.201	0.169	25.66	8.0652
49	Dibenzofuran	1.818	1.812	1.788	1.644	1.653	1.557	1.525	1.477	1.432	1.634	9.00	8.1563
50	2,4-Dinitrotoluene	0.248	0.309	0.414	0.425	0.458	0.445	0.439	0.438	0.424	0.400	17.91	8.1574
51	Diethylphthalate	1.244	1.284	1.379	1.319	1.367	1.314	1.305	1.273	1.241	1.303	3.72	8.5252
52	Fluorene	1.315	1.338	1.348	1.258	1.298	1.258	1.223	1.183	1.126	1.261	5.85	8.6376
53	4-Chlorophenyl-phenylether	0.718	0.728	0.713	0.648	0.654	0.628	0.592	0.581	0.553	0.646	9.88	8.6579
54	4-Nitroaniline	0.205	0.311	0.347	0.349	0.379	0.365	0.359	0.349	0.354	0.336	15.55	8.6939
55	4,6-Dinitro-2-methylphenol	0.091	0.127	0.211	0.246	0.275	0.295	0.297	0.291	0.285	0.235	32.87	8.7299
56	N-Nitrosodiphenylamine	0.880	0.897	0.901	0.874	0.910	0.883	0.859	0.854	0.819	0.875	3.21	8.8322
57	Azobenzene	1.359	1.337	1.385	1.333	1.381	1.344	1.324	1.406	1.351	1.358	2.01	8.8806
58	2,4,6-Tribromophenol	0.175	0.189	0.216	0.206	0.217	0.221	0.219	0.216	0.215	0.208	7.64	8.9807

KMO
3/21/06

59	Phenanthrene-d10	1	1	1	1	1	1	1	1	1	1	0	9.9727
60	4-Bromophenyl-phenylether	0.269	0.254	0.255	0.250	0.263	0.252	0.248	0.246	0.239	0.253	3.54	9.3518
61	Hexachlorobenzene	0.307	0.305	0.284	0.278	0.288	0.275	0.280	0.272	0.265	0.284	4.98	9.4069
62	Pentachlorophenol	0.115	0.147	0.181	0.186	0.198	0.206	0.203	0.201	0.205	0.182	17.27	9.6960
63	Phenanthrene	1.307	1.298	1.221	1.165	1.204	1.138	1.127	1.129	1.081	1.186	6.61	10.0076
64	Anthracene	1.200	1.208	1.185	1.131	1.155	1.093	1.097	1.082	1.034	1.132	5.28	10.0840
65	Carbazole	1.090	1.074	1.120	1.046	1.062	0.998	0.982	0.977	0.937	1.032	5.89	10.3258
66	Di-n-butylphthalate	1.040	1.107	1.252	1.237	1.339	1.297	1.237	1.218	1.182	1.212	7.58	10.8781
67	Fluoranthene	0.940	0.989	1.030	1.003	1.036	1.004	0.981	0.970	0.912	0.985	4.09	11.6159
68	Chrysene-d12	1	1	1	1	1	1	1	1	1	1	0	13.3288
69	Benzidine	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
70	Pyrene	1.366	1.467	1.485	1.487	1.480	1.486	1.477	1.461	1.529	1.471	2.97	11.8622
71	Terphenyl-d14	0.825	0.845	0.863	0.867	0.872	0.882	0.873	0.874	0.887	0.865	2.21	12.0613
72	Butylbenzylphthalate	0.335	0.428	0.537	0.581	0.606	0.646	0.637	0.602	0.644	0.557	19.40	12.6630
73	3,3'-Dichlorobenzidine	0.153	0.181	0.277	0.323	0.340	0.366	0.351	0.355	0.373	0.302	27.08	13.3052
74	Benzo(a)anthracene	0.989	1.026	1.027	1.020	1.025	1.018	1.081	1.022	1.017	1.025	2.32	13.3176
75	Chrysene	1.129	1.115	1.126	1.113	1.097	1.084	1.047	1.051	1.078	1.093	2.79	13.3648
76	bis(2-Ethylhexyl)phthalate	0.432	0.509	0.644	0.703	0.734	0.769	0.745	0.728	0.726	0.666	17.64	13.4087
77	Perylene-d12	1	1	1	1	1	1	1	1	1	1	0	15.0260
78	Di-n-octylphthalate	------	0.962	1.293	1.639	1.810	1.974	1.945	1.887	2.018	1.691	22.32	14.2314
79	Benzo(b)fluoranthene	1.182	1.306	1.358	1.634	1.723	1.725	1.657	1.491	1.766	1.538	13.79	14.6200
80	Benzo(k)fluoranthene	1.337	1.526	1.522	1.265	1.297	1.277	1.350	1.429	1.202	1.356	8.40	14.6526
81	Benzo(a)pyrene	1.204	1.270	1.319	1.338	1.385	1.331	1.354	1.311	1.316	1.314	3.94	14.9698
82	Indeno(1,2,3-cd)pyrene	0.779	0.858	1.059	1.132	1.183	1.200	1.179	1.123	1.142	1.073	14.11	16.2204
83	Dibenzo(a,h)anthracene	0.559	0.692	0.855	0.893	0.973	0.949	0.957	0.913	0.909	0.855	16.28	16.2463
84	Benzo(g,h,i)perylene	0.766	0.849	0.955	0.925	0.964	0.935	0.942	0.896	0.880	0.901	7.00	16.5455

Ave_%RSD : 9.4 Max_%RSD : 46.9

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
27	Benzoic Acid	-0.03861	0.25972	0.9980
36	Hexachlorocyclopentadiene	-0.02264	0.27219	0.9990
41	2-Nitroaniline	-0.04117	0.48503	0.9995
43	2,6-Dinitrotoluene	-0.03074	0.36004	0.9994
45	3-Nitroaniline	-0.02379	0.38395	0.9997
47	2,4-Dinitrophenol	-0.03898	0.24567	0.9960
48	4-Nitrophenol	-0.01930	0.20622	0.9992
50	2,4-Dinitrotoluene	-0.02413	0.44646	0.9992
54	4-Nitroaniline	-0.01494	0.36419	0.9993
55	4,6-Dinitro-2-methylphenol	-0.03368	0.29985	0.9987
62	Pentachlorophenol	-0.01308	0.20744	0.9998
72	Butylbenzylphthalate	-0.04573	0.64526	0.9994
73	3,3'-Dichlorobenzidine	-0.03664	0.37257	0.9991
76	bis(2-Ethylhexyl)phthalate	-0.04604	0.75395	0.9994
78	Di-n-octylphthalate	-0.31878	2.06103	0.9991
83	Dibenzo(a,h)anthracene	-0.04885	0.94925	0.9993

DKP
2/21/06

Quantitation Limit from Lowest Initial Calibration Concentration

Instrument ID :T041 Column Spec :ZB-5MS ID :0.18MM
Beginning DateTime :03/16/06 11:29 Ending DateTime :03/16/06 14:49
IC File :RCH189 HPChem Method :SV41C16

WATER Init. Vol. (ml) : 1000 Final Vol. (ml) : 1
SOIL Init. Weight (gm) : 30 Final Vol. (ml) : 1

IDX	Parameters	ON COL MG/L	WATER UG/L	SOIL MG/KG	R_FILE
1	1,4-Dichlorobenzene-d4	IntSTD	IntSTD	IntSTD	IntSTD
2	N-Nitrosodimethylamine	5	5	.1667	RCH185
3	Pyridine	5	5	.1667	RCH185
4	2-Fluorophenol	5	5	.1667	RCH185
5	Phenol	5	5	.1667	RCH185
6	Aniline	5	5	.1667	RCH185
7	Bis(2-chloroethyl)ether	5	5	.1667	RCH185
8	Phenol-d5	5	5	.1667	RCH185
9	2-Chlorophenol	5	5	.1667	RCH185
10	1,3-Dichlorobenzene	5	5	.1667	RCH185
11	1,4-Dichlorobenzene	5	5	.1667	RCH185
12	Benzyl alcohol	5	5	.1667	RCH185
13	1,2-Dichlorobenzene-d4	5	5	.1667	RCH185
14	1,2-Dichlorobenzene	5	5	.1667	RCH185
15	2-Methylphenol	5	5	.1667	RCH185
16	Bis(2-chloroisopropyl)ether	5	5	.1667	RCH185
17	4-Methylphenol	5	5	.1667	RCH185
18	N-Nitroso-di-n-propylamine	5	5	.1667	RCH185
19	Hexachloroethane	5	5	.1667	RCH185
20	Naphthalene-d8	IntSTD	IntSTD	IntSTD	IntSTD
21	Nitrobenzene-d5	5	5	.1667	RCH185
22	Nitrobenzene	5	5	.1667	RCH185
23	Isophorone	5	5	.1667	RCH185
24	2-Nitrophenol	5	5	.1667	RCH185
25	2,4-Dimethylphenol	5	5	.1667	RCH185
26	bis(2-Chloroethoxy)methane	5	5	.1667	RCH185
27	Benzoic Acid	5	5	.1667	RCH185
28	2,4-Dichlorophenol	5	5	.1667	RCH185
29	1,2,4-Trichlorobenzene	5	5	.1667	RCH185
30	Naphthalene	5	5	.1667	RCH185
31	4-Chloroaniline	5	5	.1667	RCH185
32	Hexachlorobutadiene	5	5	.1667	RCH185
33	4-Chloro-3-methylphenol	5	5	.1667	RCH185
34	2-Methylnaphthalene	5	5	.1667	RCH185
35	Acenaphthene-d10	IntSTD	IntSTD	IntSTD	IntSTD
36	Hexachlorocyclopentadiene	5	5	.1667	RCH185
37	2,4,6-Trichlorophenol	5	5	.1667	RCH185
38	2,4,5-Trichlorophenol	5	5	.1667	RCH185
39	2-Fluorobiphenyl	5	5	.1667	RCH185
40	2-Chloronaphthalene	5	5	.1667	RCH185
41	2-Nitroaniline	5	5	.1667	RCH185
42	Dimethylphthalate	5	5	.1667	RCH185
43	2,6-Dinitrotoluene	5	5	.1667	RCH185
44	Acenaphthylene	5	5	.1667	RCH185
45	3-Nitroaniline	5	5	.1667	RCH185
46	Acenaphthene	5	5	.1667	RCH185
47	2,4-Dinitrophenol	5	5	.1667	RCH185
48	4-Nitrophenol	5	5	.1667	RCH185
49	Dibenzofuran	5	5	.1667	RCH185
50	2,4-Dinitrotoluene	5	5	.1667	RCH185
51	Diethylphthalate	5	5	.1667	RCH185
52	Fluorene	5	5	.1667	RCH185
53	4-Chlorophenyl-phenylether	5	5	.1667	RCH185
54	4-Nitroaniline	5	5	.1667	RCH185
55	4,6-Dinitro-2-methylphenol	5	5	.1667	RCH185
56	N-Nitrosodiphenylamine	5	5	.1667	RCH185
57	Azobenzene	5	5	.1667	RCH185
58	2,4,6-Tribromophenol	5	5	.1667	RCH185
59	Phenanthrene-d10	IntSTD	IntSTD	IntSTD	IntSTD
60	4-Bromophenyl-phenylether	5	5	.1667	RCH185
61	Hexachlorobenzene	5	5	.1667	RCH185
62	Pentachlorophenol	5	5	.1667	RCH185
63	Phenanthrene	5	5	.1667	RCH185
64	Anthracene	5	5	.1667	RCH185
65	Carbazole	5	5	.1667	RCH185
66	Di-n-butylphthalate	5	5	.1667	RCH185
67	Fluoranthene	5	5	.1667	RCH185
68	Chrysene-d12	IntSTD	IntSTD	IntSTD	IntSTD
69	Benzidine	NA	NA	NA	NA
70	Pyrene	5	5	.1667	RCH185
71	Terphenyl-d14	5	5	.1667	RCH185
72	Butylbenzylphthalate	5	5	.1667	RCH185
73	3,3'-Dichlorobenzidine	5	5	.1667	RCH185
74	Benzo(a)anthracene	5	5	.1667	RCH185
75	Chrysene	5	5	.1667	RCH185
76	bis(2-Ethylhexyl)phthalate	5	5	.1667	RCH185
77	Perylene-d12	IntSTD	IntSTD	IntSTD	IntSTD
78	Di-n-octylphthalate	10	10	.3333	RCH186
79	Benzo(b)fluoranthene	5	5	.1667	RCH185
80	Benzo(k)fluoranthene	5	5	.1667	RCH185
81	Benzo(a)pyrene	5	5	.1667	RCH185
82	Indeno(1,2,3-cd)pyrene	5	5	.1667	RCH185
83	Dibenzo(a,h)anthracene	5	5	.1667	RCH185
84	Benzo(g,h,i)perylene	5	5	.1667	RCH185

KMP
3/29/06

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Project:ICAL
Lab Code: EMXT
SDG No.:
Lab File ID: RCH189
Date Analyzed: 03/16/06
Instrument ID: T-041
Time Analyzed: 13:09

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	430494	4.09	1462791	5.59	798603	7.87
UPPER LIMIT	860988	4.59	2925582	6.09	1597206	8.37
LOWER LIMIT	215247	3.59	731396	5.09	399302	7.37
SAMPLE ID						
1 SV41C161	374476	4.09	1320850	5.58	753391	7.86
2 SV41C162	374304	4.09	1303007	5.58	713506	7.87
3 SV41C163	416007	4.09	1448691	5.59	799529	7.87
4 SV41C164	404915	4.09	1425557	5.59	800591	7.87
5 SV41C166	451913	4.10	1624766	5.60	910755	7.87
6 SV41C167	372543	4.10	1298878	5.59	709118	7.87
7 SV41C168	372447	4.10	1319752	5.59	718762	7.87
8 SV41C169	389813	4.10	1375876	5.60	718678	7.88
9 ISV41C161	462792	4.09	1621630	5.59	906808	7.87

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal satndard 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 used to flag internal standard area values with an asterisk
* Values outside of QC limits.

3/21/06

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCH189
Instrument ID: T-041

Project:ICAL
SDG No.:
Date Analyzed: 03/16/06
Time Analyzed: 13:09

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1218481	9.97	882905	13.32	515385	15.03
UPPER LIMIT	2436962	10.47	1765810	13.82	1030770	15.53
LOWER LIMIT	609241	9.47	441453	12.82	257693	14.53
SAMPLE ID						
1 SV41C161	1169691	9.97	872161	13.33	553483	15.03
2 SV41C162	1078298	9.96	785722	13.32	480353	15.03
3 SV41C163	1242779	9.96	919127	13.32	568731	15.02
4 SV41C164	1207396	9.97	860527	13.32	521375	15.02
5 SV41C166	1426817	9.98	983116	13.33	579556	15.03
6 SV41C167	1075527	9.98	729956	13.34	413542	15.03
7 SV41C168	1074999	9.97	723924	13.33	408877	15.02
8 SV41C169	1060283	9.98	650638	13.33	363343	15.03
9 ISV41C161	1383087	9.97	979679	13.34	572301	15.03

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal satndard 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 used to flag internal standard area values with an asterisk
* Values outside of QC limits.

3/17/06

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
Total Cpnds : 84

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorobenzene-d4	152	4.09	1.000	A	1	A	B
2	T	N-Nitrosodimethylamine	74	2.09	0.510	A	1	A	B
3	T	Pyridine	79	2.09	0.510	A	1	A	B
4	S	2-Fluorophenol	112	2.91	0.711	A	1	A	B
5	C	Phenol	94	3.71	0.906	A	2	A	B
6	T	Aniline	93	3.77	0.921	A	2	A	B
7	T	Bis(2-chloroethyl)ether	93	3.82	0.933	A	2	A	B
8	S	Phenol-d5	99	3.69	0.901	A	1	A	B
9	T	2-Chlorophenol	128	3.88	0.948	A	2	A	B
10	T	1,3-Dichlorobenzene	146	4.04	0.988	A	2	A	B
11	C	1,4-Dichlorobenzene	146	4.11	1.005	A	2	A	B
12	T	Benzyl alcohol	108	4.24	1.035	A	2	A	B
13	S	1,2-Dichlorobenzene-d4	152	4.27	1.042	A	2	A	B
14	T	1,2-Dichlorobenzene	146	4.28	1.045	A	2	A	B
15	T	2-Methylphenol	107	4.34	1.059	A	2	A	B
16	T	Bis(2-chloroisopropyl)ether	45	4.38	1.069	A	2	A	B
17	T	4-Methylphenol	107	4.52	1.104	A	2	A	B
18	P	N-Nitroso-di-n-propylamine	70	4.54	1.109	A	2	A	B
19	T	Hexachloroethane	117	4.65	1.136	A	2	A	B
20	I	Naphthalene-d8	136	5.59	1.000	A	1	A	B
21	S	Nitrobenzene-d5	82	4.71	0.843	A	2	A	B
22	T	Nitrobenzene	77	4.73	0.846	A	2	A	B
23	T	Isophorone	82	5.01	0.897	A	1	A	B
24	C	2-Nitrophenol	139	5.11	0.913	A	2	A	B
25	T	2,4-Dimethylphenol	122	5.16	0.922	A	2	A	B
26	T	bis(2-Chloroethoxy)methane	93	5.29	0.946	A	2	A	B
27	T	Benzoic Acid	122	5.31	0.949	L	2	A	B
28	C	2,4-Dichlorophenol	162	5.40	0.966	A	2	A	B
29	T	1,2,4-Trichlorobenzene	180	5.52	0.987	A	2	A	B
30	T	Naphthalene	128	5.62	1.005	A	1	A	B
31	T	4-Chloroaniline	127	5.69	1.018	A	2	A	B
32	C	Hexachlorobutadiene	225	5.77	1.033	A	2	A	B
33	C	4-Chloro-3-methylphenol	107	6.30	1.127	A	2	A	B
34	T	2-Methylnaphthalene	142	6.49	1.161	A	1	A	B
35	I	Acenaphthene-d10	164	7.87	1.000	A	2	A	B
36	P	Hexachlorocyclopentadiene	237	6.68	0.849	L	2	A	B
37	C	2,4,6-Trichlorophenol	196	6.85	0.870	A	3	A	B
38	T	2,4,5-Trichlorophenol	196	6.89	0.875	A	2	A	B
39	S	2-Fluorobiphenyl	172	6.97	0.886	A	1	A	B
40	T	2-Chloronaphthalene	162	7.12	0.905	A	2	A	B
41	T	2-Nitroaniline	65	7.26	0.923	L	2	A	B
42	T	Dimethylphthalate	163	7.53	0.958	A	2	A	B
43	T	2,6-Dinitrotoluene	165	7.61	0.966	L	2	A	B
44	T	Acenaphthylene	152	7.68	0.976	A	2	A	B
45	T	3-Nitroaniline	138	7.83	0.995	L	2	A	B
46	C	Acenaphthene	154	7.92	1.006	A	2	A	B
47	P	2,4-Dinitrophenol	184	7.97	1.013	L	1	A	B
48	P	4-Nitrophenol	109	8.06	1.024	L	2	A	B

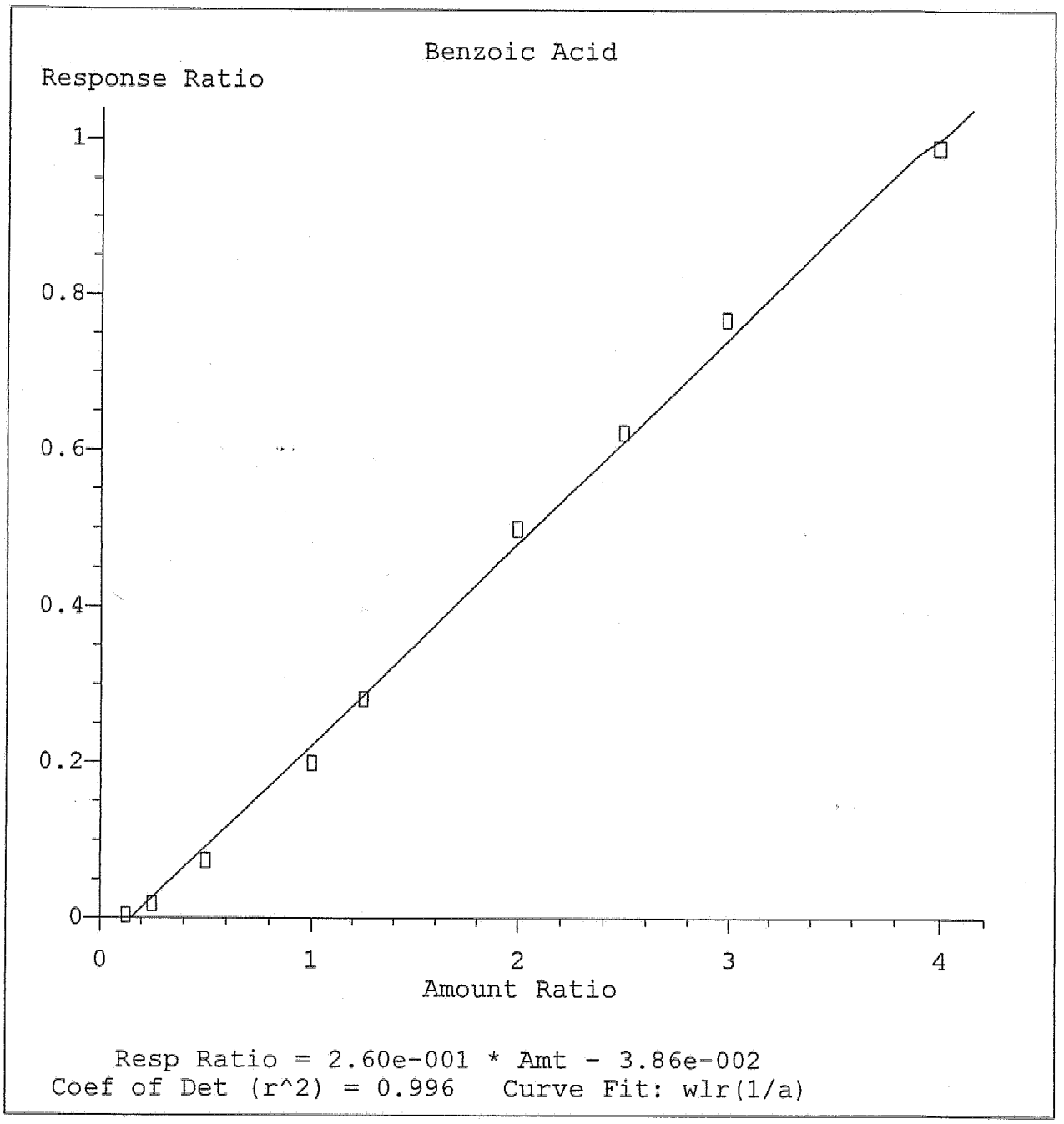
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49	T	Dibenzofuran	168	8.15	1.036	A	1	A	B
50	T	2,4-Dinitrotoluene	165	8.15	1.036	L	2	A	B
51	T	Diethylphthalate	149	8.53	1.084	A	2	A	B
52	T	Fluorene	166	8.64	1.098	A	2	A	B
53	T	4-Chlorophenyl-phenylether	204	8.66	1.100	A	2	A	B
54	T	4-Nitroaniline	138	8.69	1.104	L	2	A	B
55	T	4,6-Dinitro-2-methylphenol	198	8.73	1.109	L	2	A	B
56 C		N-Nitrosodiphenylamine	169	8.83	1.122	A	2	A	B
57	T	Azobenzene	77	8.88	1.129	A	2	A	B
58	S	2,4,6-Tribromophenol	330	8.97	1.140	A	2	A	B
59 I		Phenanthrene-d10	188	9.97	1.000	A	2	A	B
60	T	4-Bromophenyl-phenylether	248	9.35	0.937	A	2	A	B
61	T	Hexachlorobenzene	284	9.41	0.943	A	2	A	B
62 C		Pentachlorophenol	266	9.69	0.971	L	2	A	B
63	T	Phenanthrene	178	10.00	1.003	A	2	A	B
64	T	Anthracene	178	10.09	1.011	A	2	A	B
65	T	Carbazole	167	10.32	1.035	A	2	A	B
66	T	Di-n-butylphthalate	149	10.88	1.090	A	2	A	B
67 C		Fluoranthene	202	11.61	1.164	A	2	A	B
68 I		Chrysene-d12	240	13.32	1.000	A	2	A	B
69	T	Benzidine	184	11.78	0.884	A	2	A	B
70	T	Pyrene	202	11.86	0.890	A	2	A	B
71	S	Terphenyl-d14	244	12.06	0.905	A	2	A	B
72	T	Butylbenzylphthalate	149	12.67	0.951	L	2	A	B
73	T	3,3'-Dichlorobenzidine	252	13.30	0.998	L	2	A	B
74	T	Benzo(a)anthracene	228	13.31	0.999	A	3	A	B
75	T	Chrysene	228	13.37	1.003	A	2	A	B
76	T	bis(2-Ethylhexyl)phthalate	149	13.41	1.006	L	2	A	B
77 I		Perylene-d12	264	15.03	1.000	A	2	A	B
78 C		Di-n-octylphthalate	149	14.24	0.947	L	2	A	B
79	T	Benzo(b)fluoranthene	252	14.62	0.973	A	3	A	B
80	T	Benzo(k)fluoranthene	252	14.65	0.975	A	2	A	B
81 C		Benzo(a)pyrene	252	14.97	0.997	A	2	A	B
82	T	Indeno(1,2,3-cd)pyrene	276	16.22	1.079	A	2	A	B
83	T	Dibenzo(a,h)anthracene	278	16.25	1.081	L	2	A	B
84	T	Benzo(g,h,i)perylene	276	16.55	1.102	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

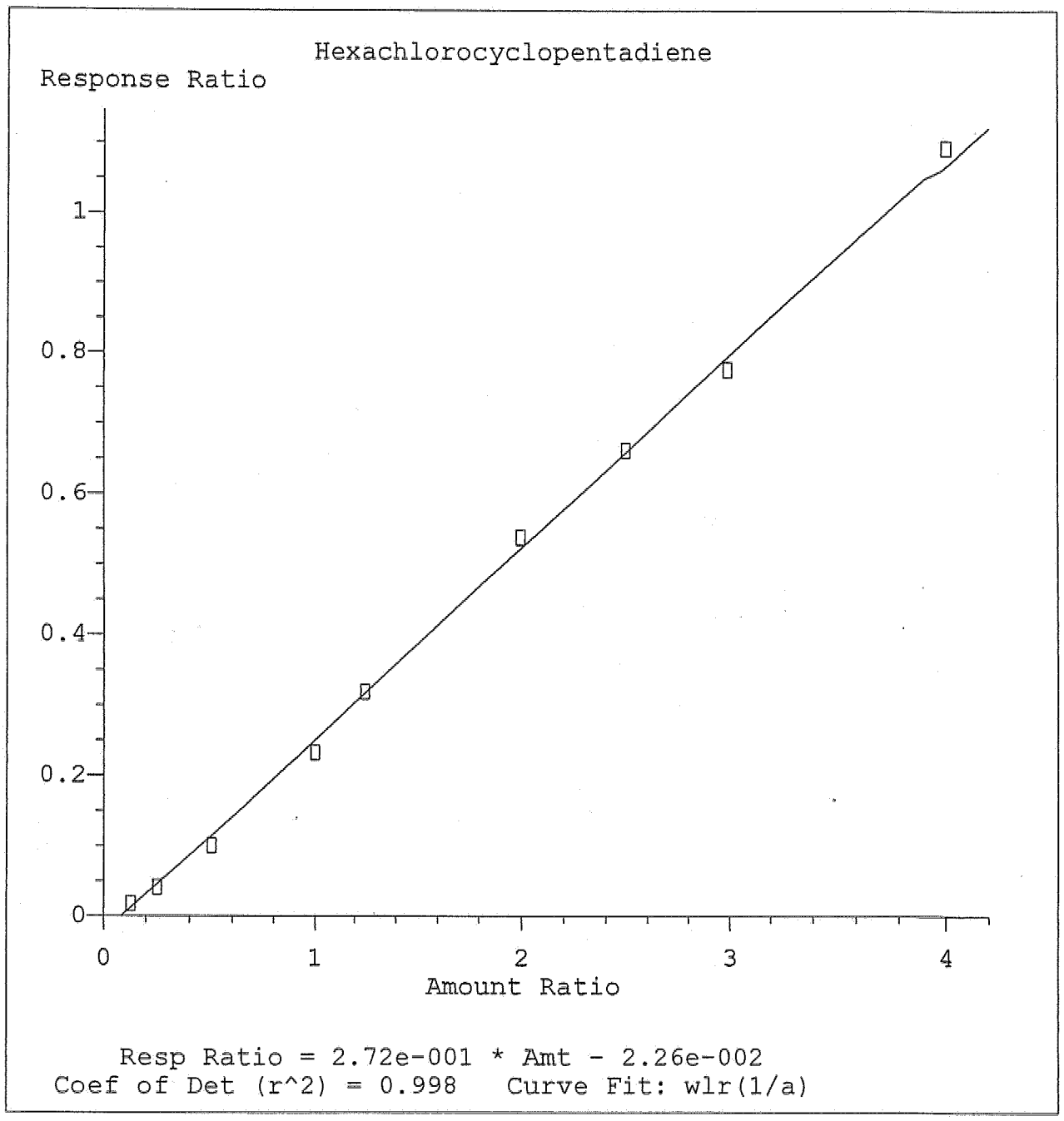
SV41C16.M Fri Mar 17 17:27:45 2006 TO41

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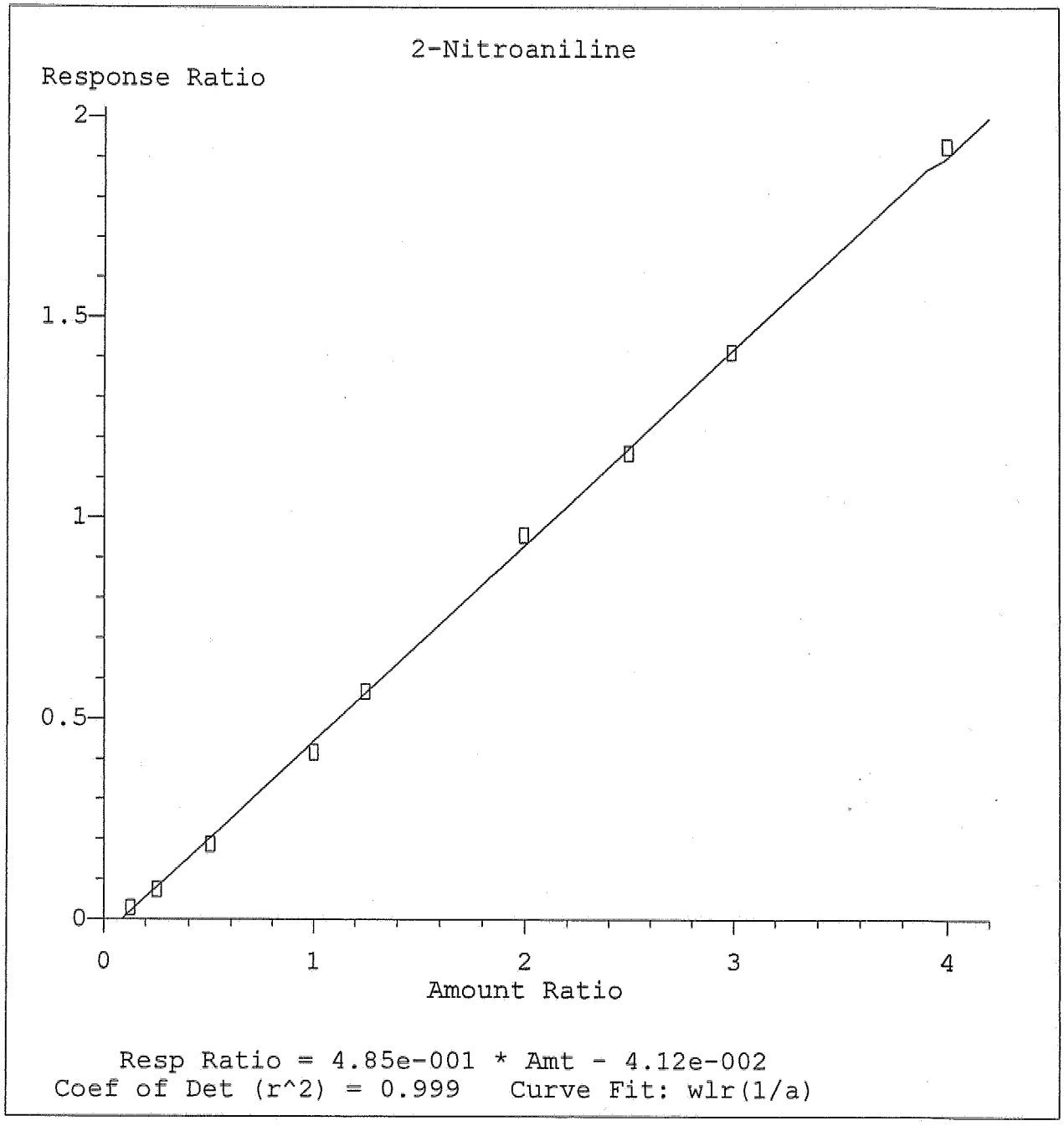
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3038



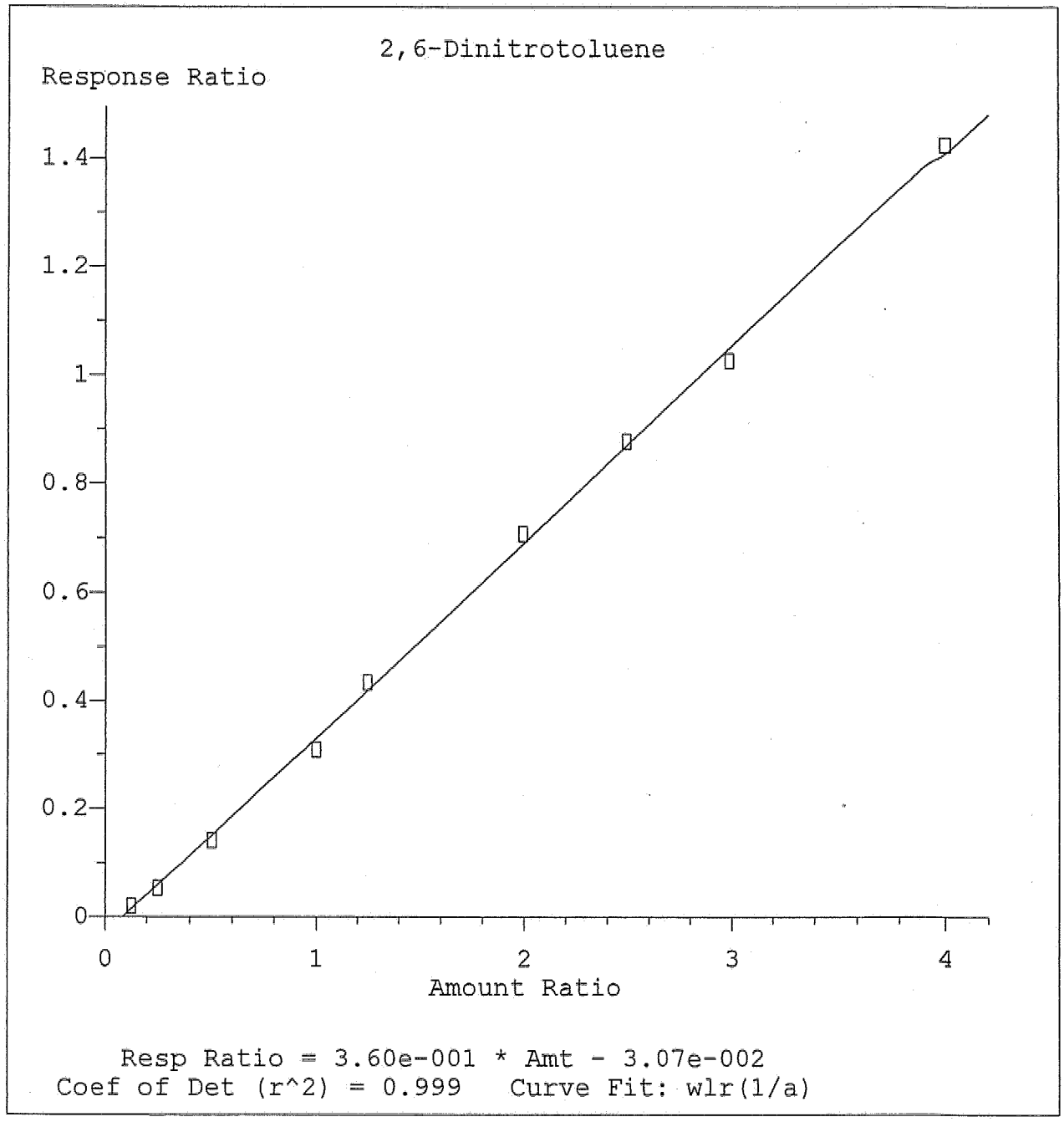
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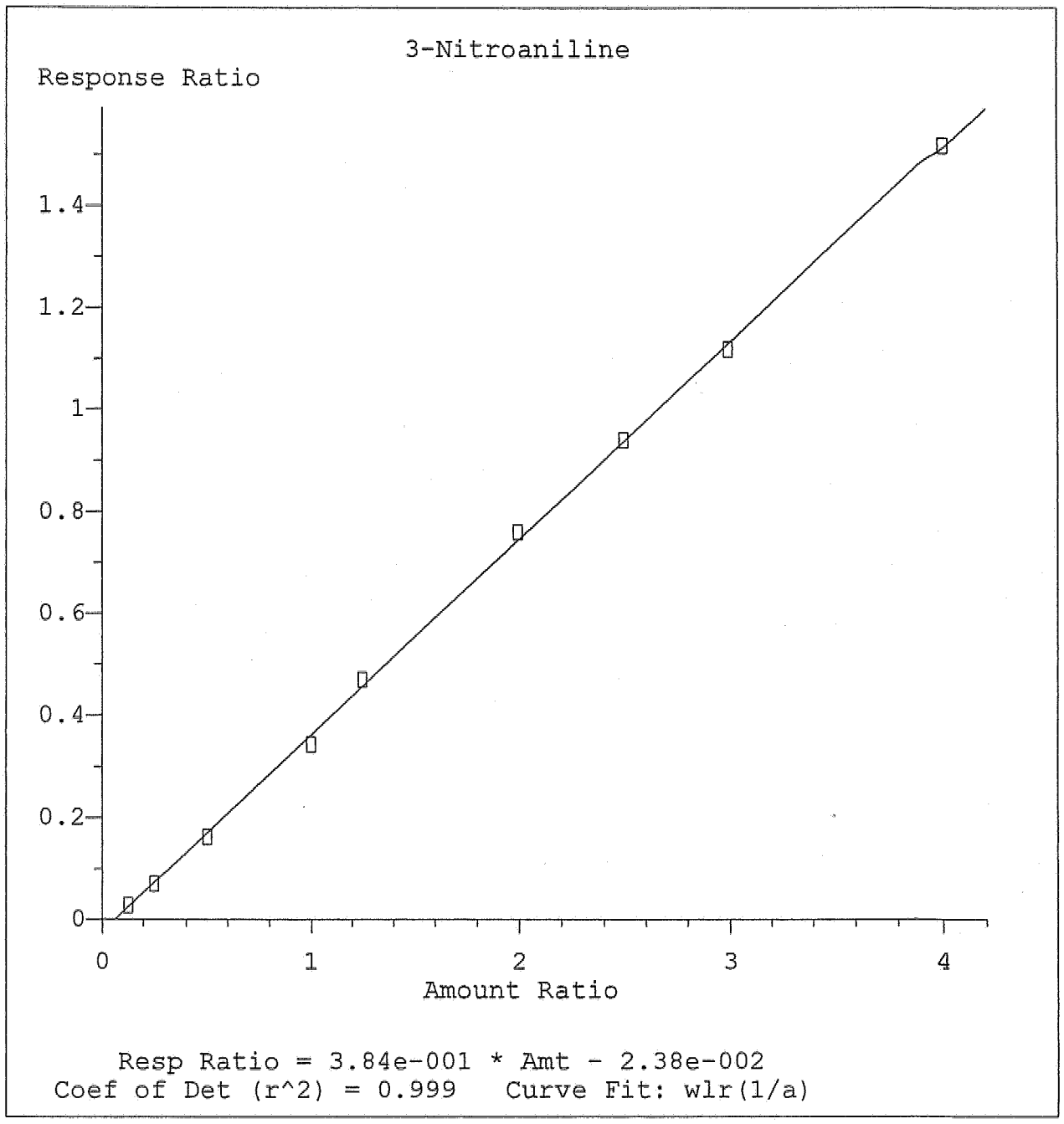
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3040

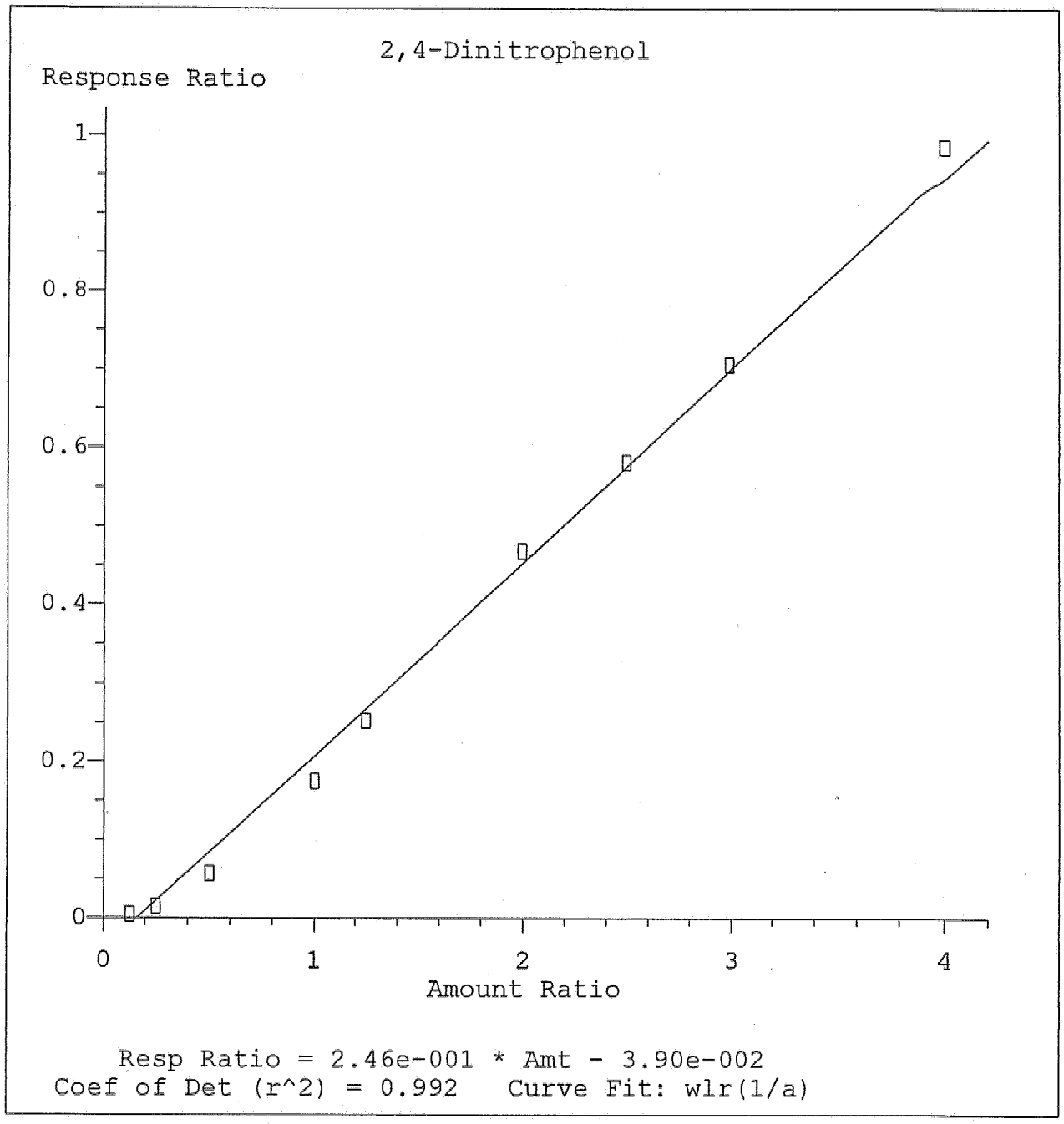


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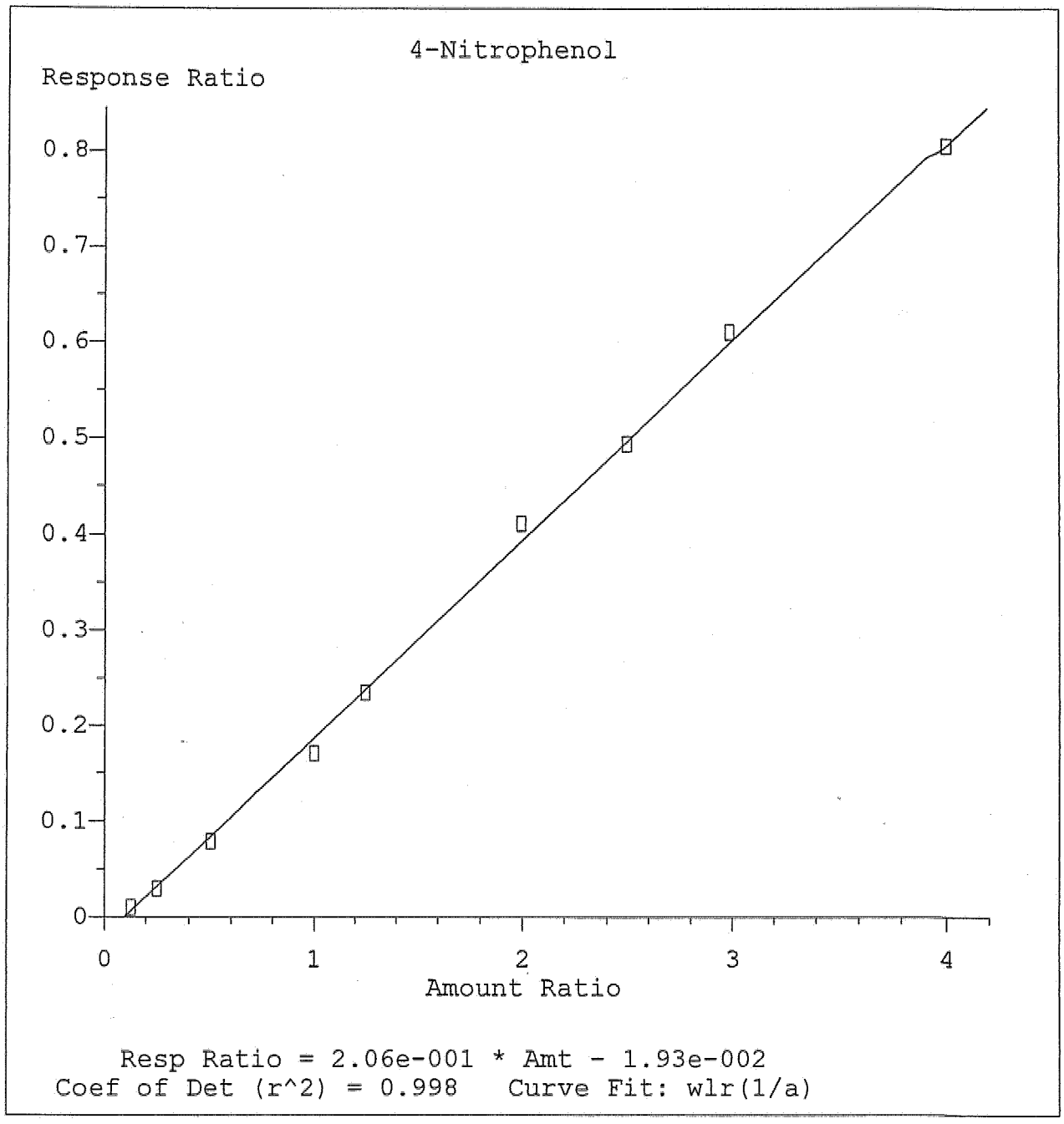
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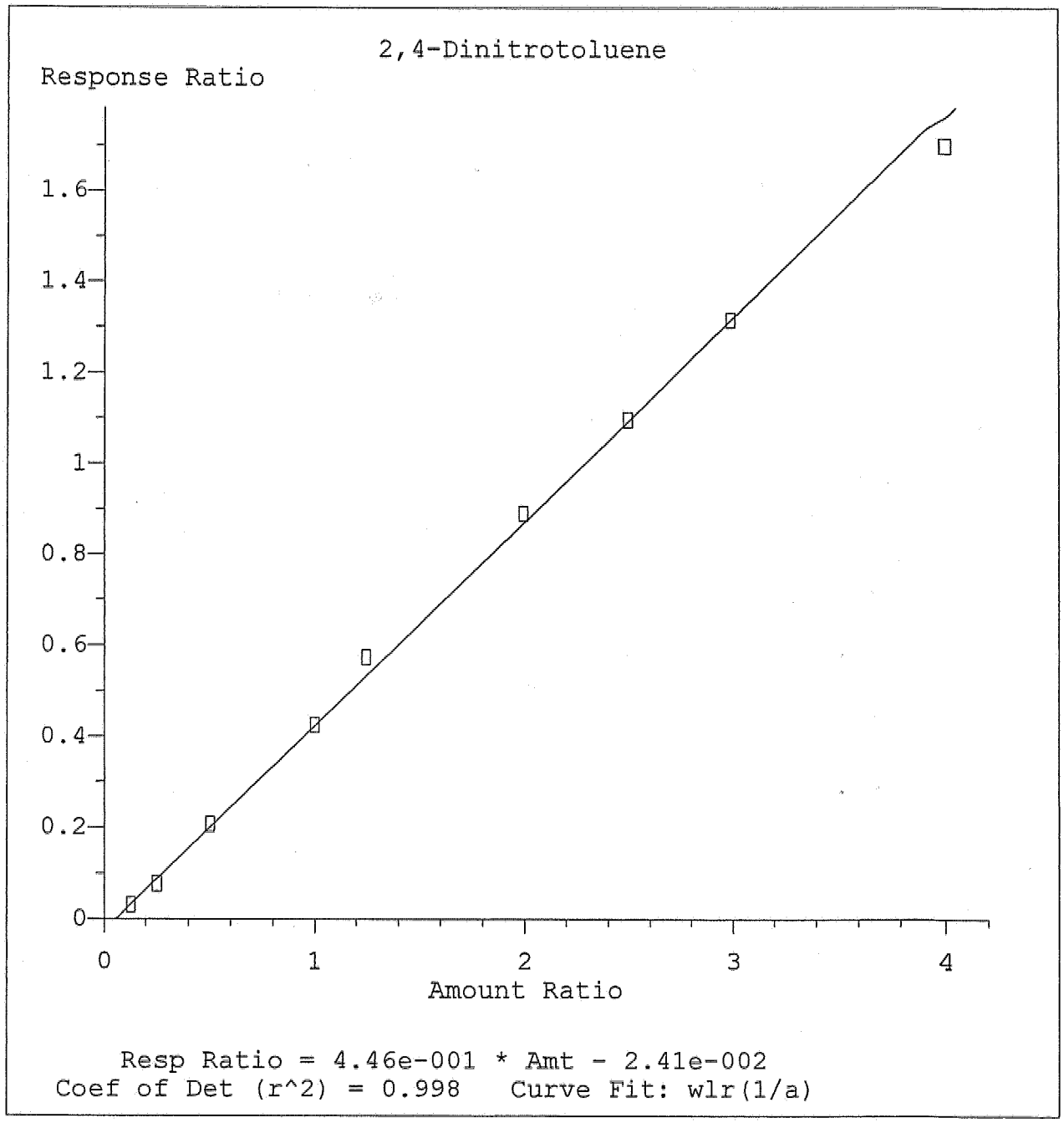


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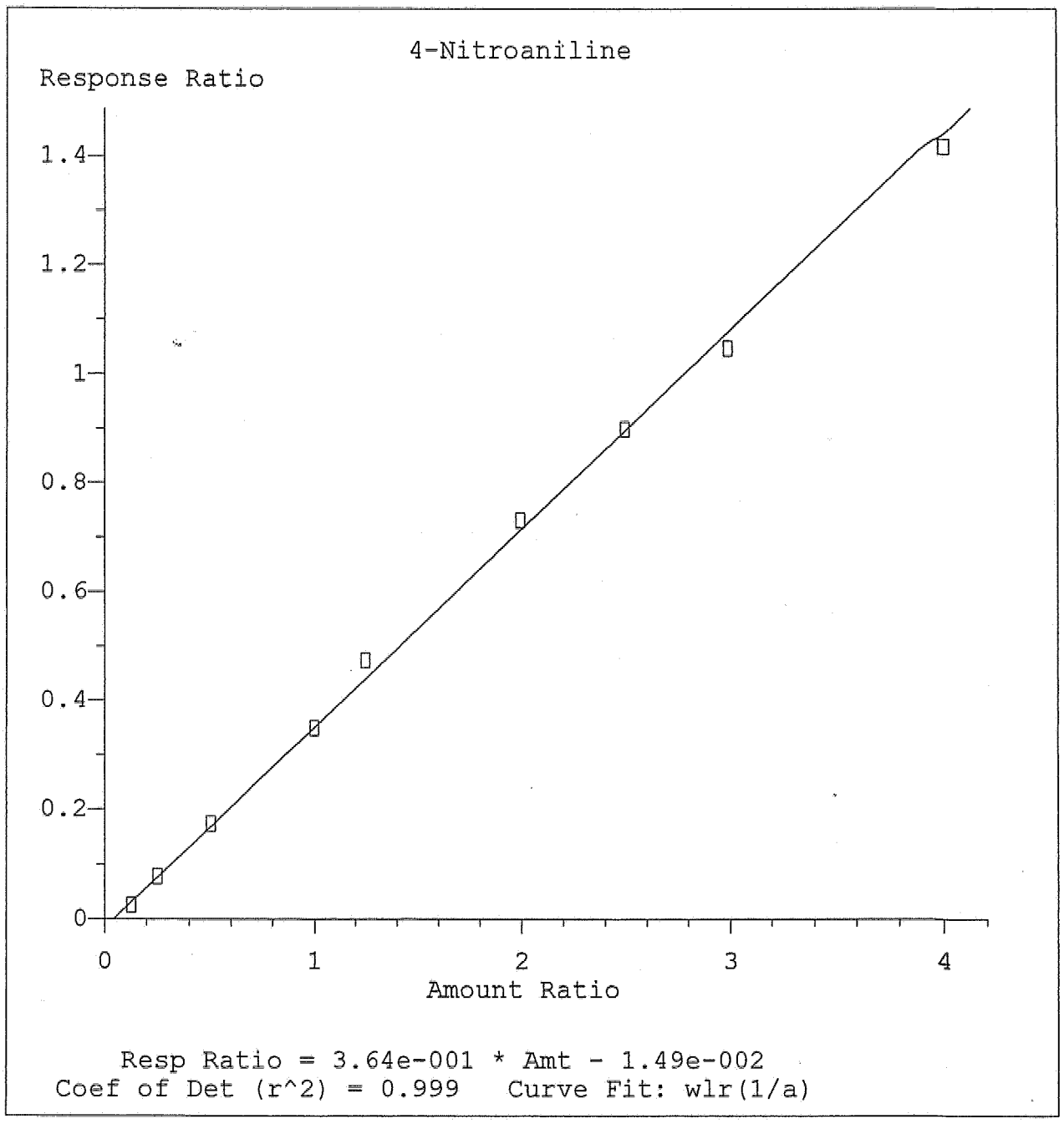
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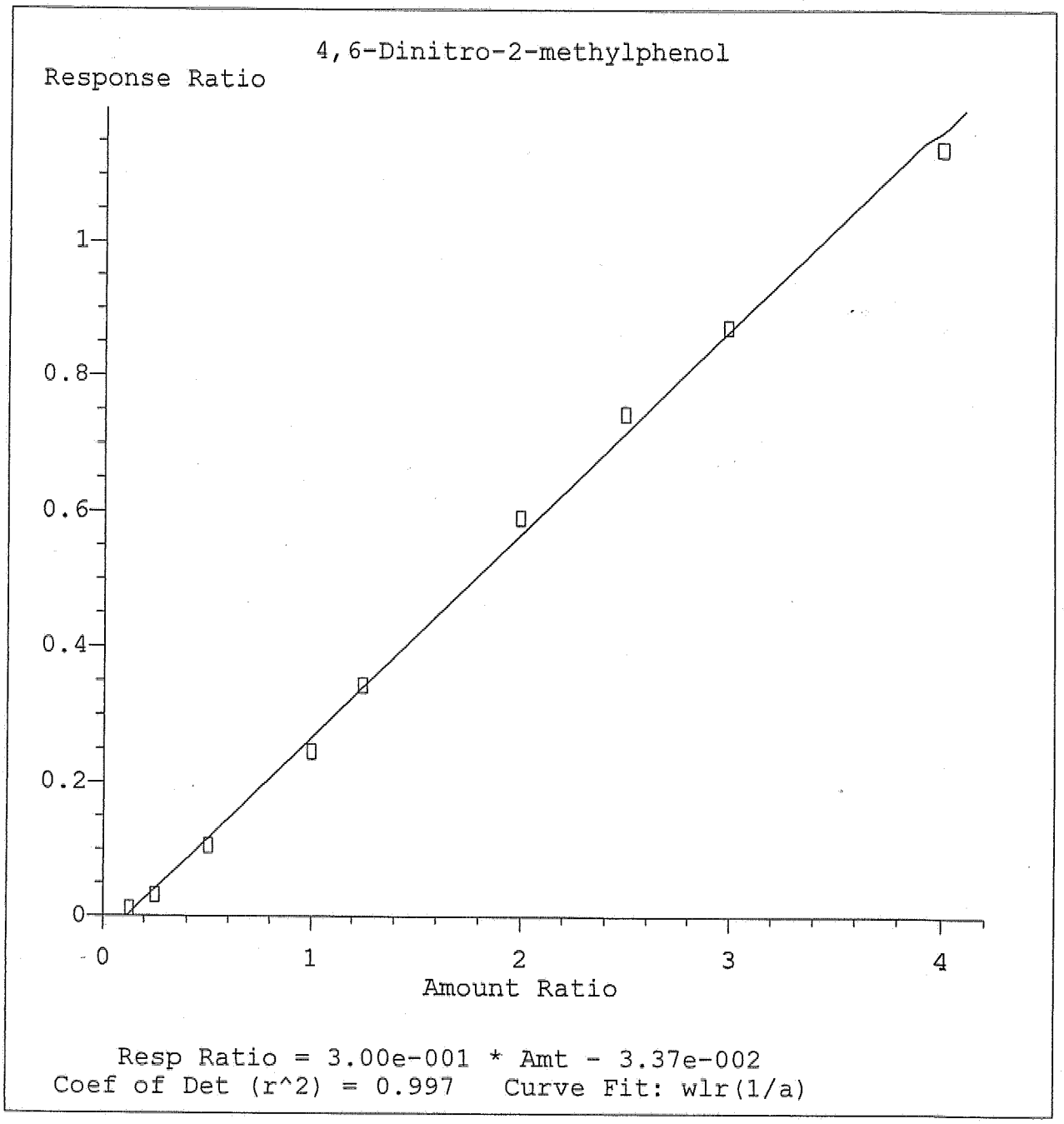
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Calibration Table Last Updated: Fri Mar 17 17:22:53 2006

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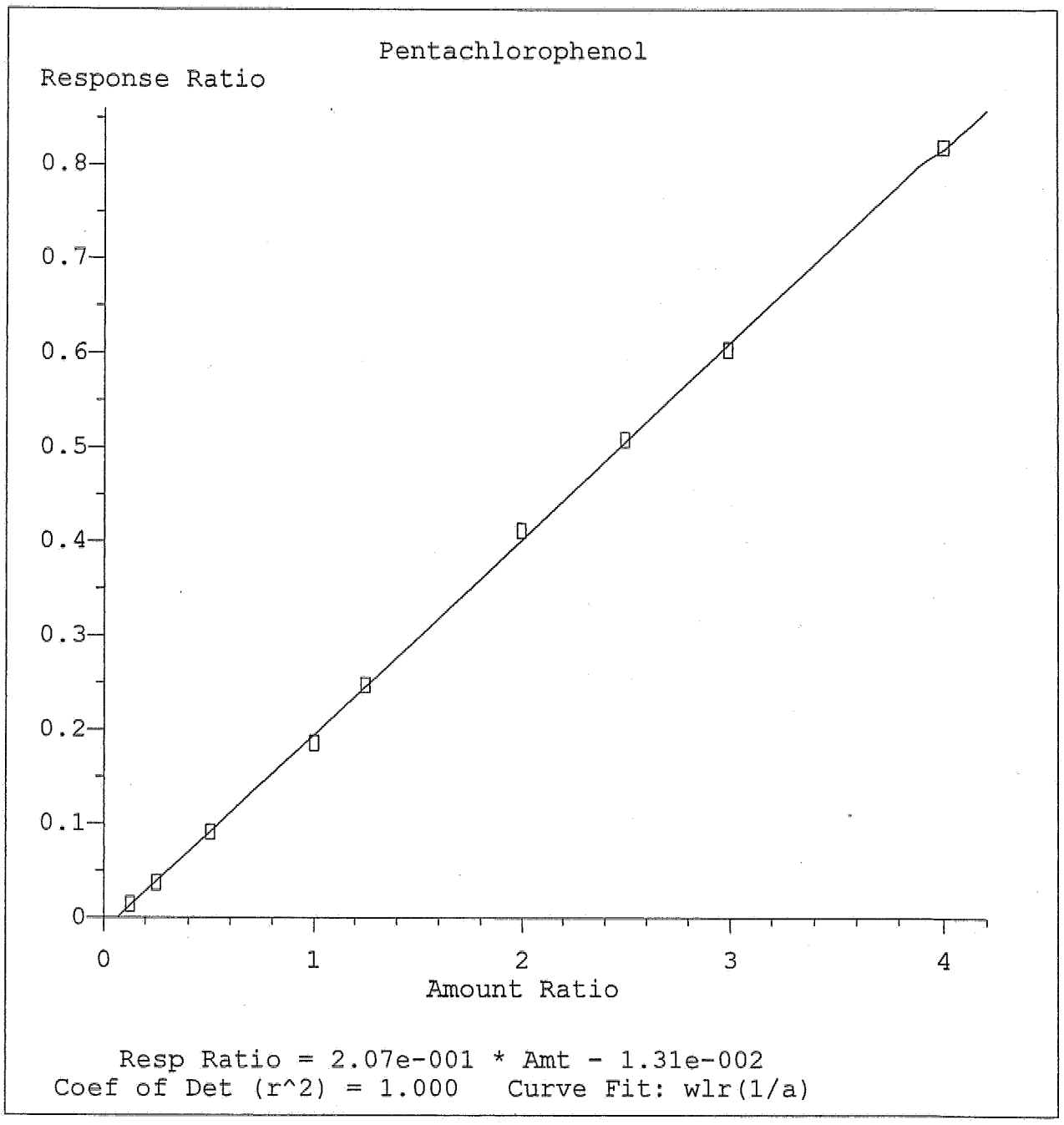
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Calibration Table Last Updated: Fri Mar 17 17:22:53 2006

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3/22/06



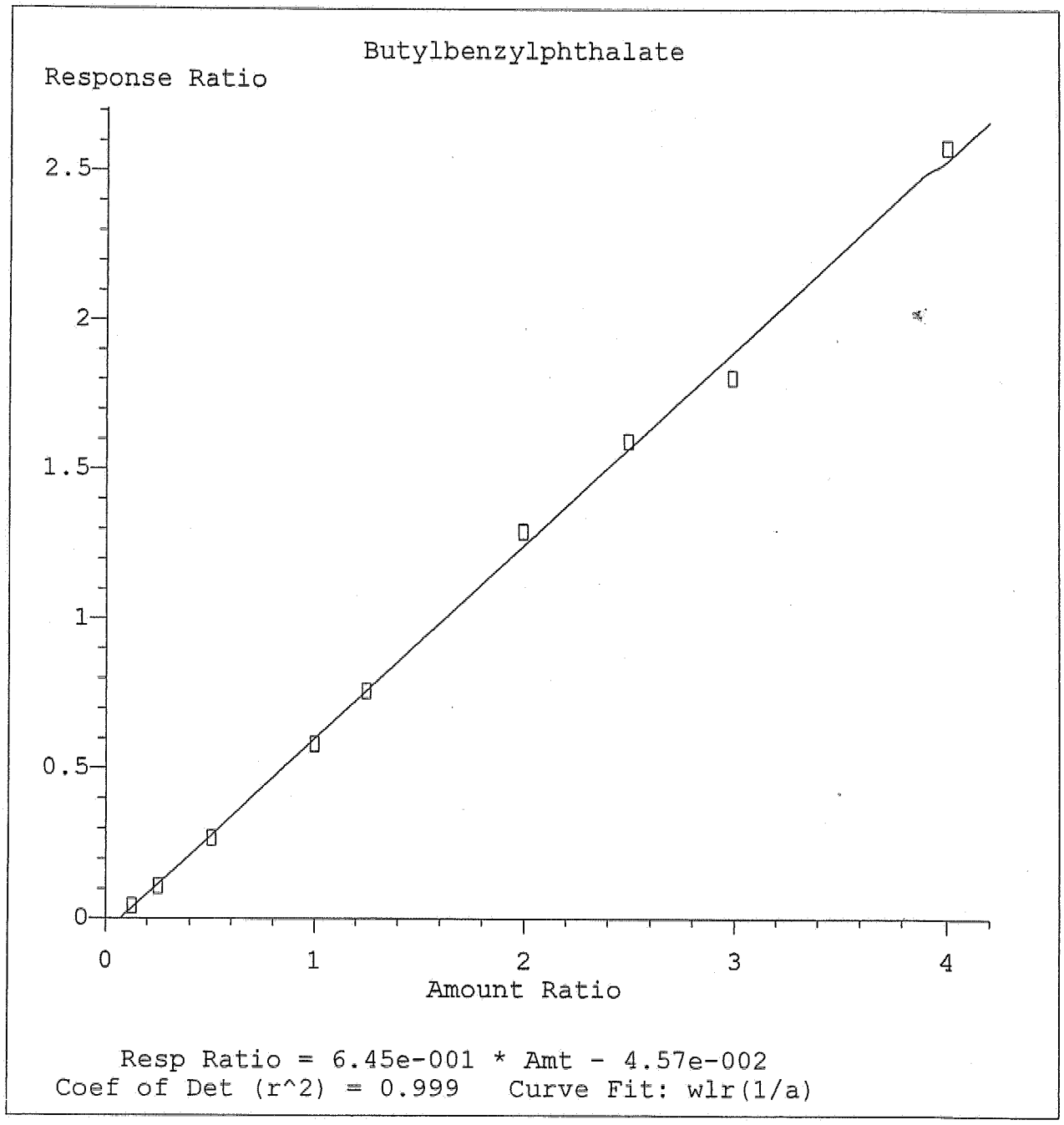
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Calibration Table Last Updated: Fri Mar 17 17:22:53 2006

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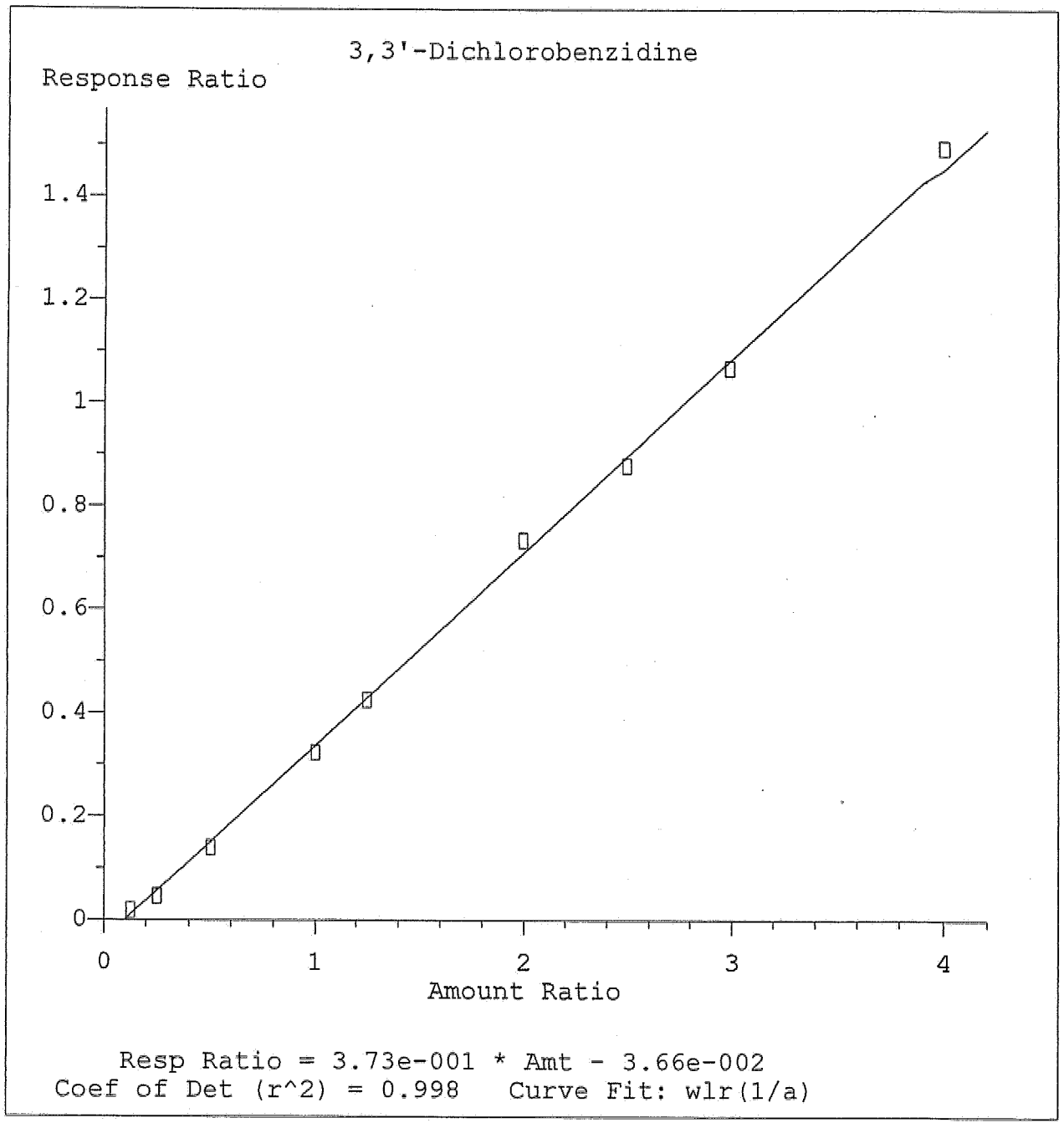
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Calibration Table Last Updated: Fri Mar 17 17:22:53 2006

EMD
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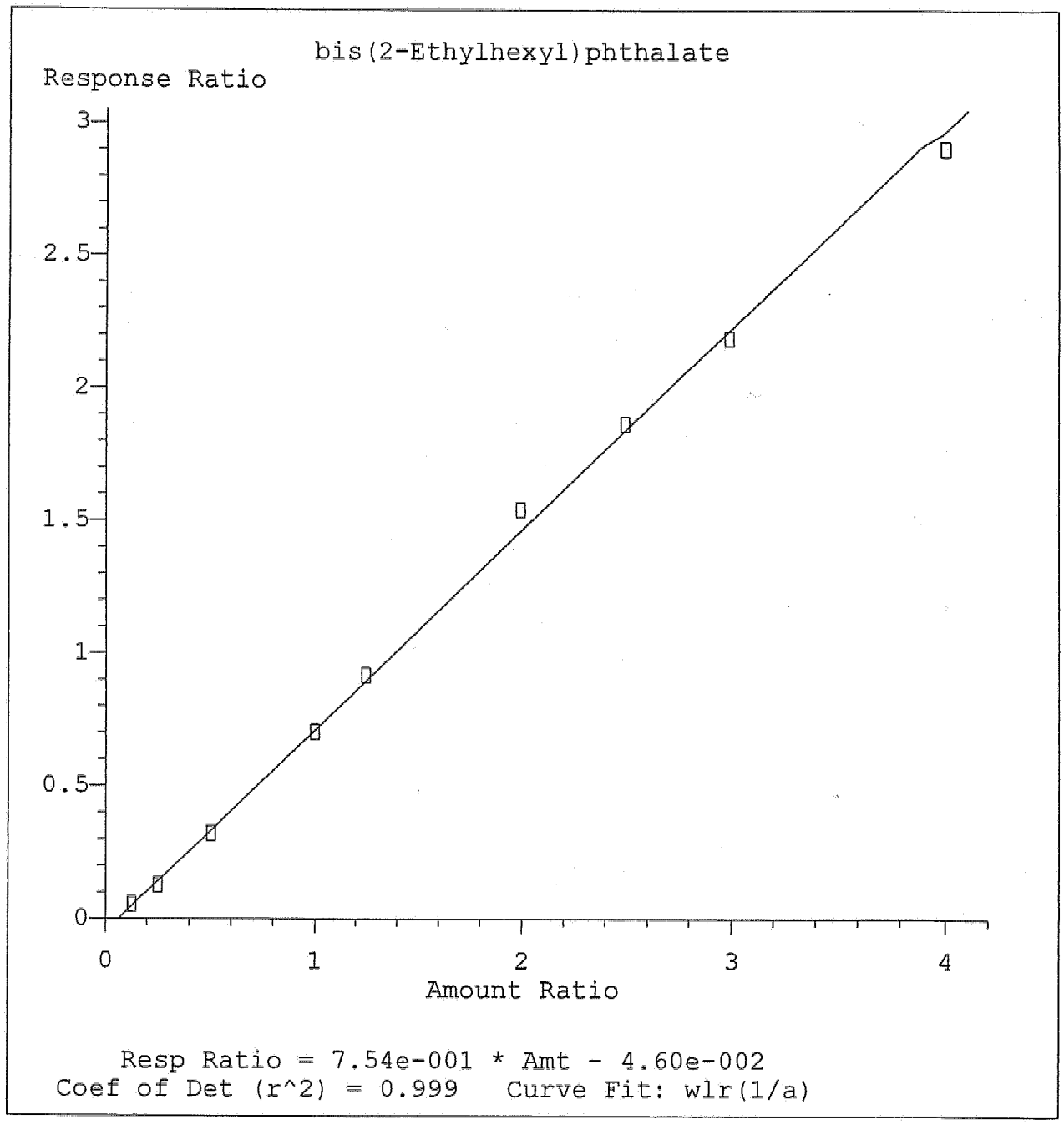
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Calibration Table Last Updated: Fri Mar 17 17:22:53 2006

KMD
3/22/06



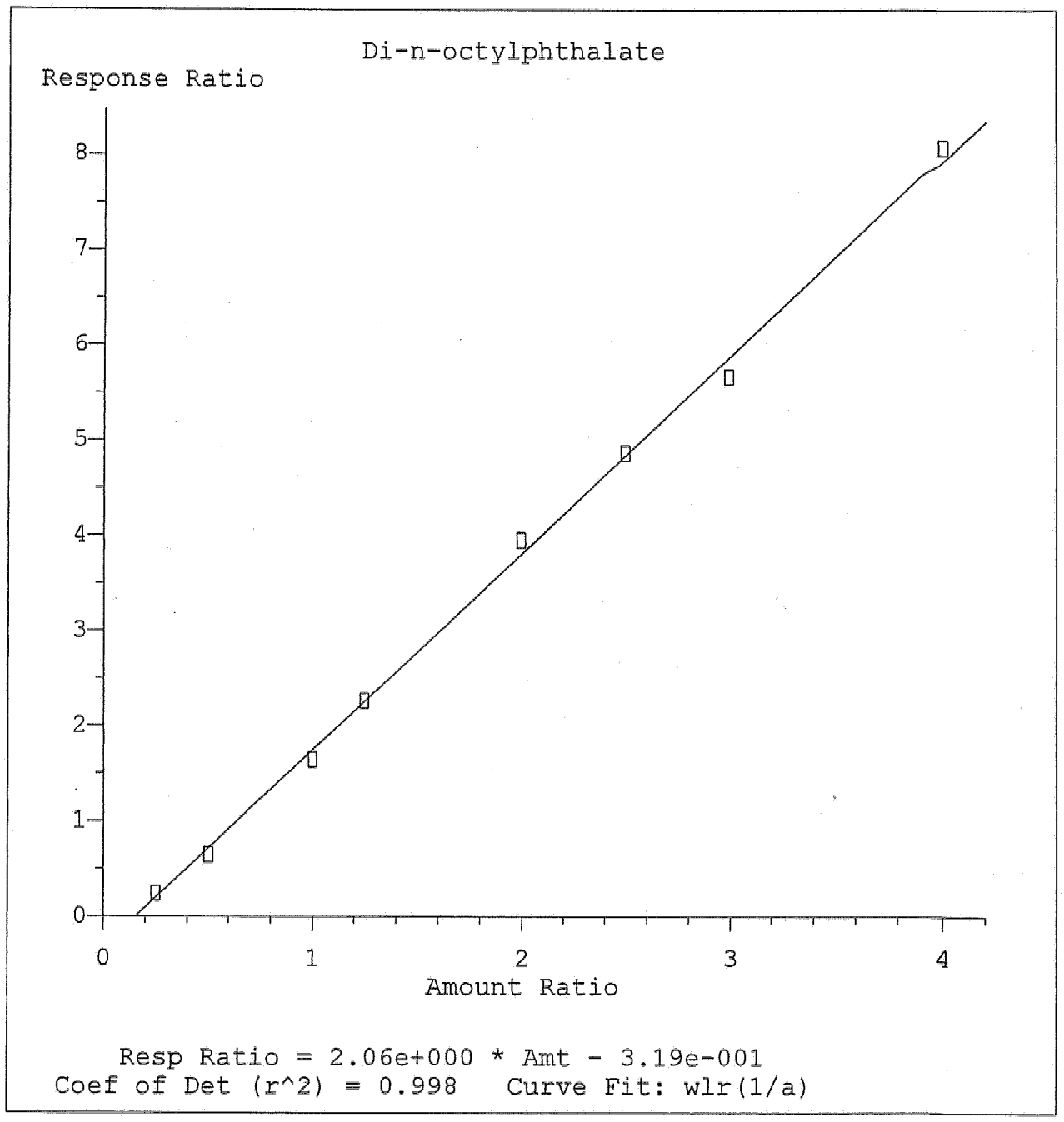
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Calibration Table Last Updated: Fri Mar 17 17:22:53 2006

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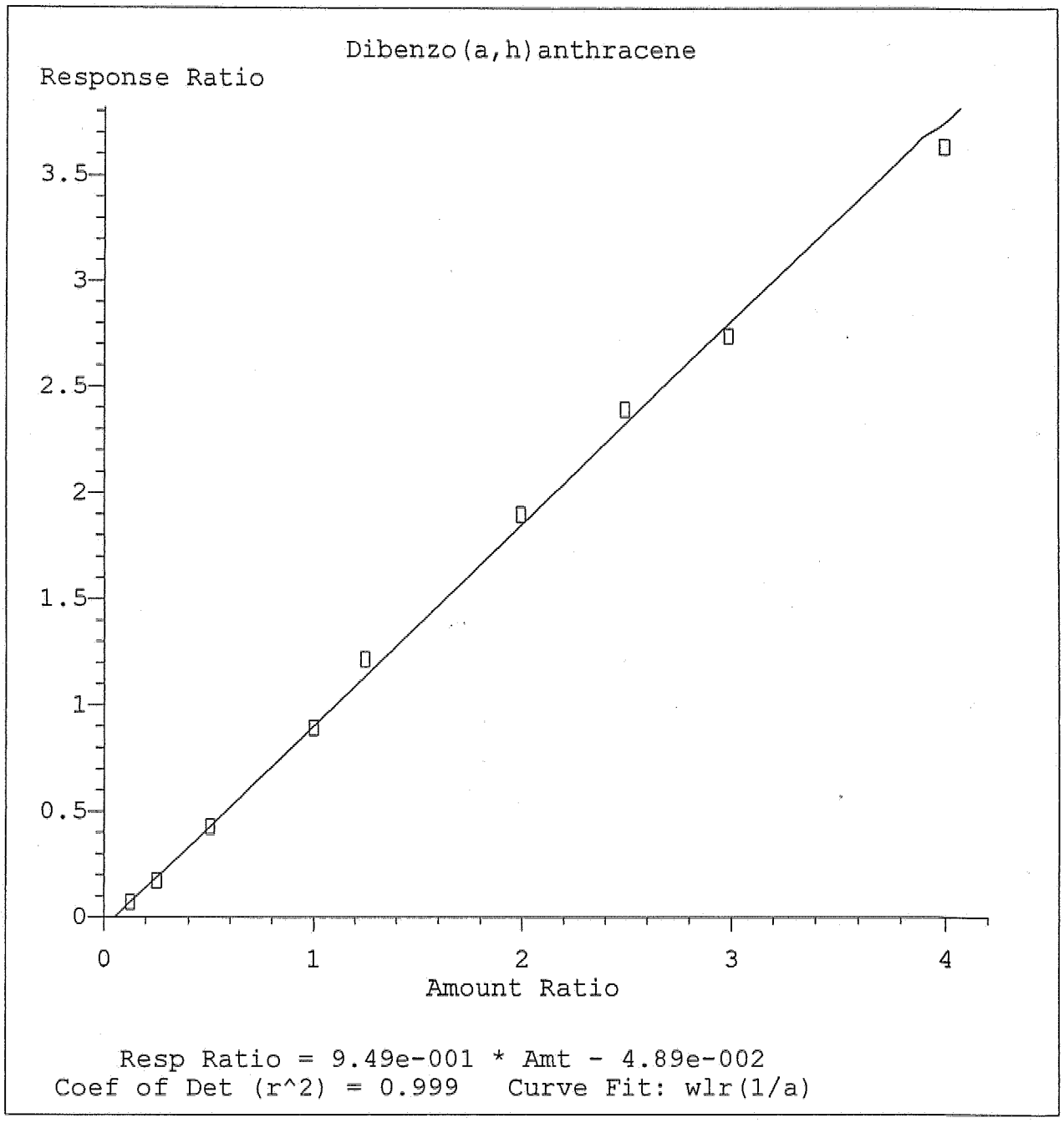
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Calibration Table Last Updated: Fri Mar 17 17:22:53 2006

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Method Name: C:\HPCHEM\1\METHODS\SV41C16.M
Calibration Table Last Updated: Fri Mar 17 17:22:53 2006

KWP
3/31/06

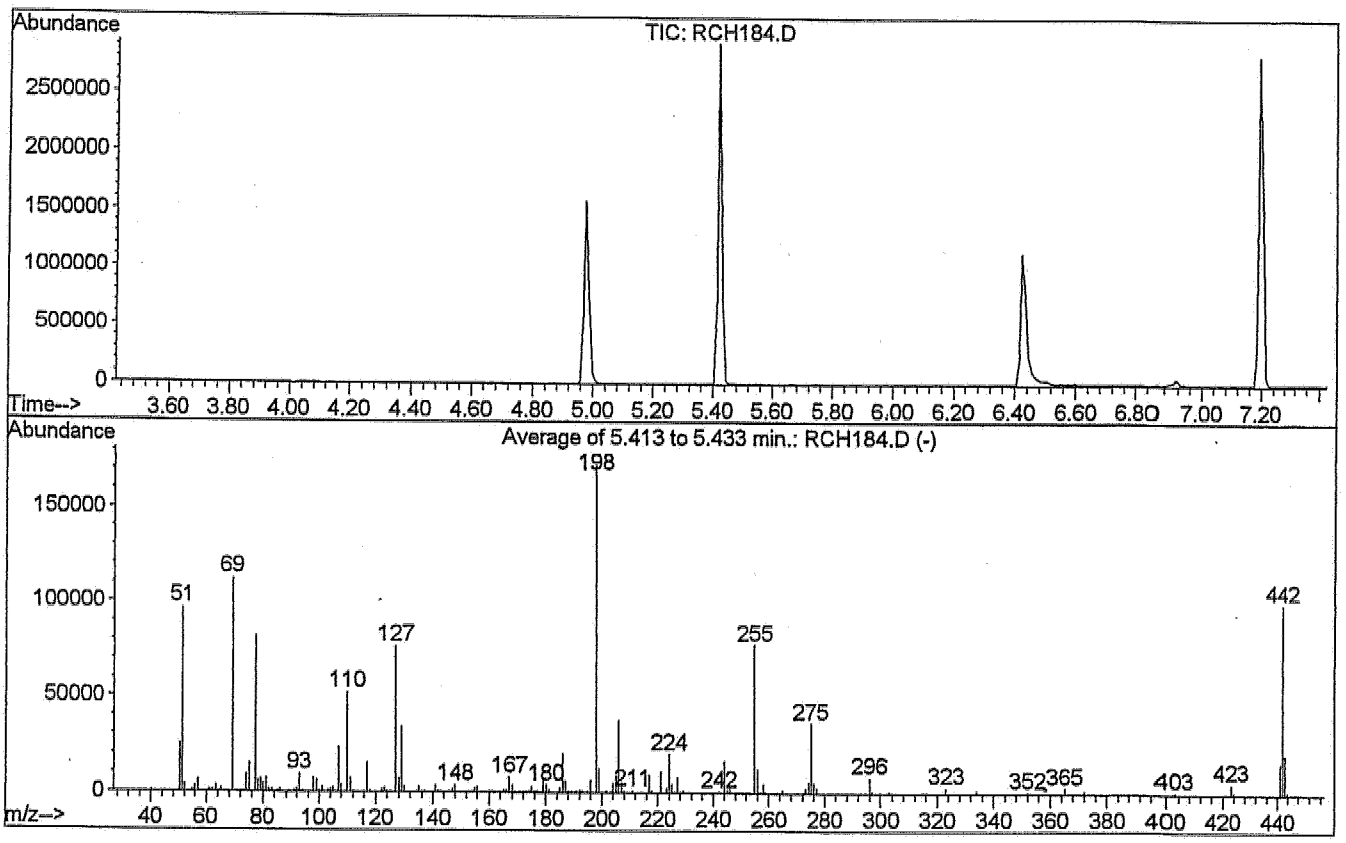


Method Name: C:\HPCHEM\1\METHODS\SV41C16.M
Calibration Table Last Updated: Fri Mar 17 17:22:53 2006

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH184.D
Acq On : 16 Mar 2006 11:12
Sample : DFT41C1601
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC

Vial: 2
Operator: SG
Inst : TO41
Multiplr: 1.00



AutoFind: Scans 306, 307, 308; Background Corrected with Scan 303

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	56.0	96779	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	65.1	112411	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	44.5	76787	PASS
197	198	0.00	1	0.3	484	PASS
198	198	100	100	100.0	172667	PASS
199	198	5	9	7.3	12549	PASS
275	198	10	30	21.1	36504	PASS
365	198	1	100	1.7	2922	PASS
441	443	0.01	100	77.7	16324	PASS
442	198	40	100	58.0	100168	PASS
443	442	17	23	21.0	21013	PASS

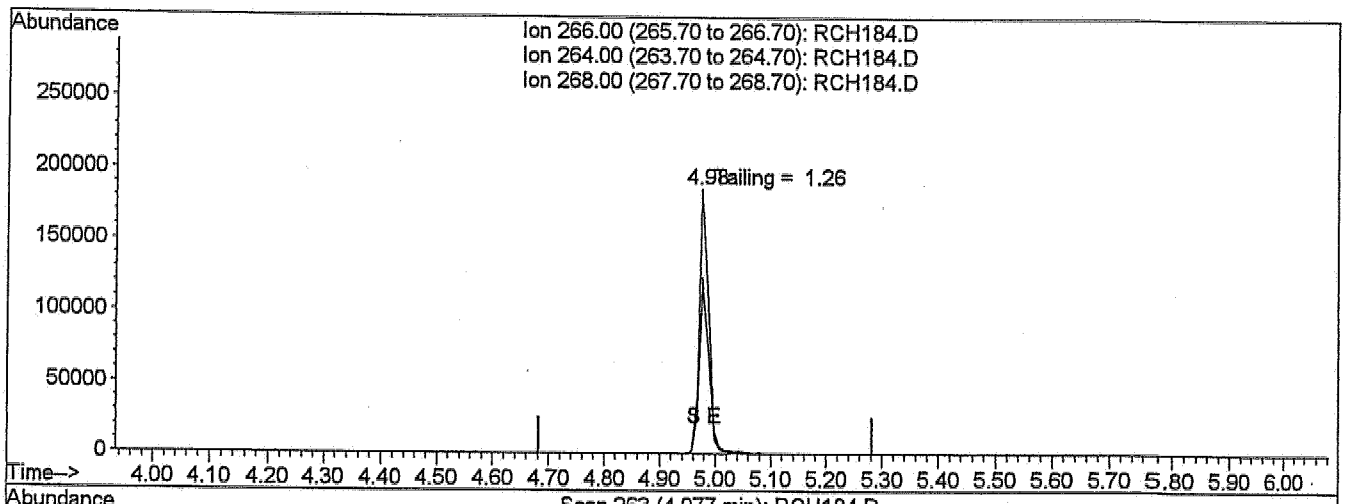
RCH184.D DFTPP.M Fri Mar 17 17:10:14 2006 TO41

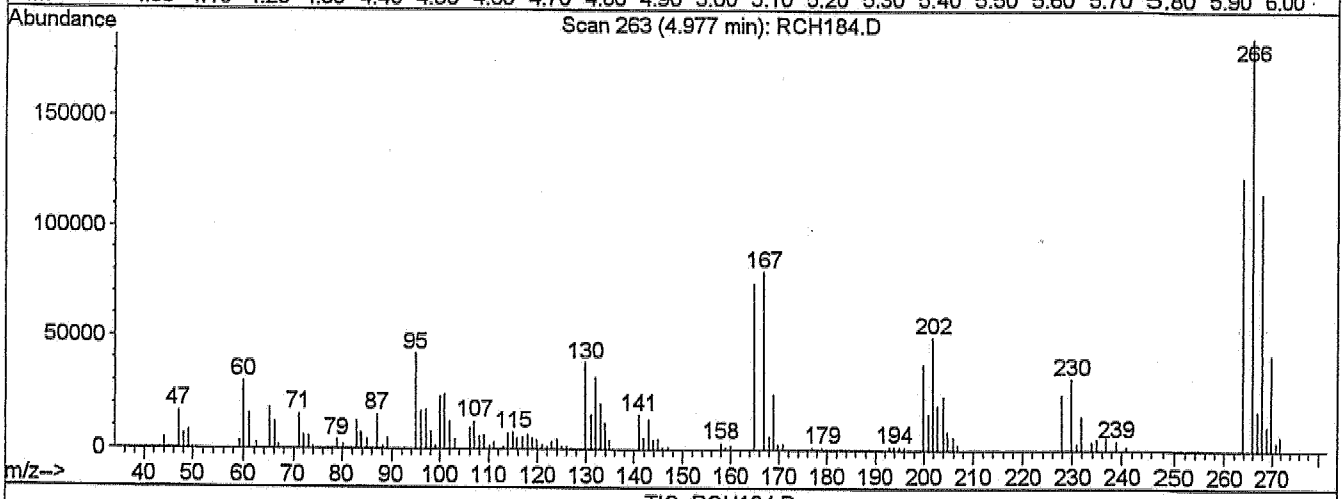
3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH184.D
Acq On : 16 Mar 2006 11:12
Sample : DFT41C1601
Misc :
Quant Time: Mar 16 11:20 2006

Vial: 2
Operator: SG
Inst : TO41
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC
Last Update : Thu Nov 03 17:25:00 2005
Response via : Single Level Calibration





TIC: RCH184.D

(1) Pentachlorophenol

4.98min 56.34ng

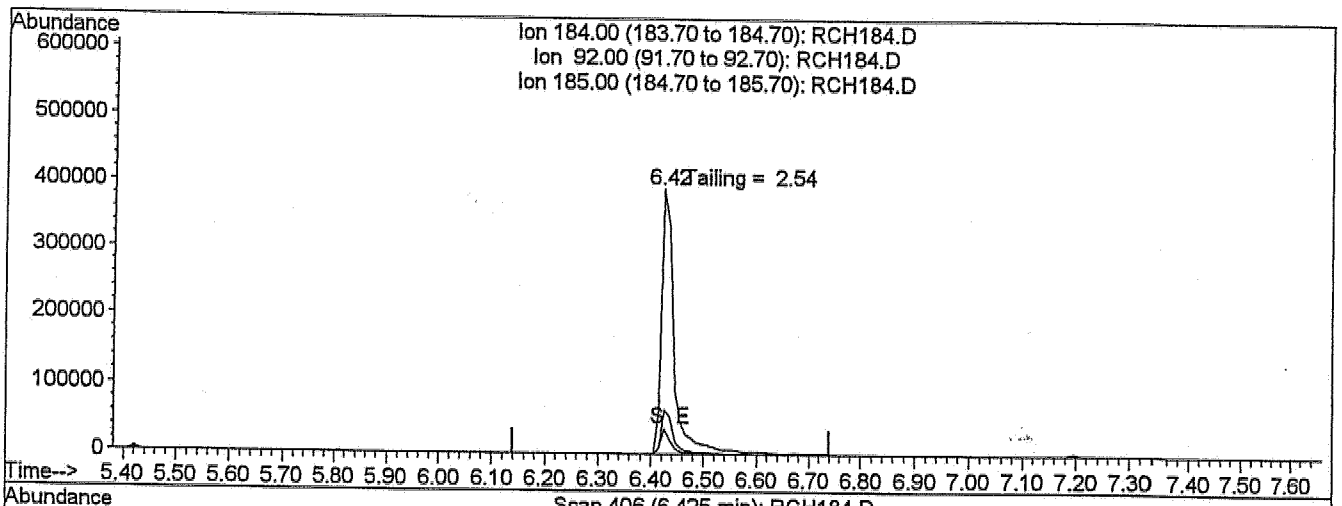
response 224901

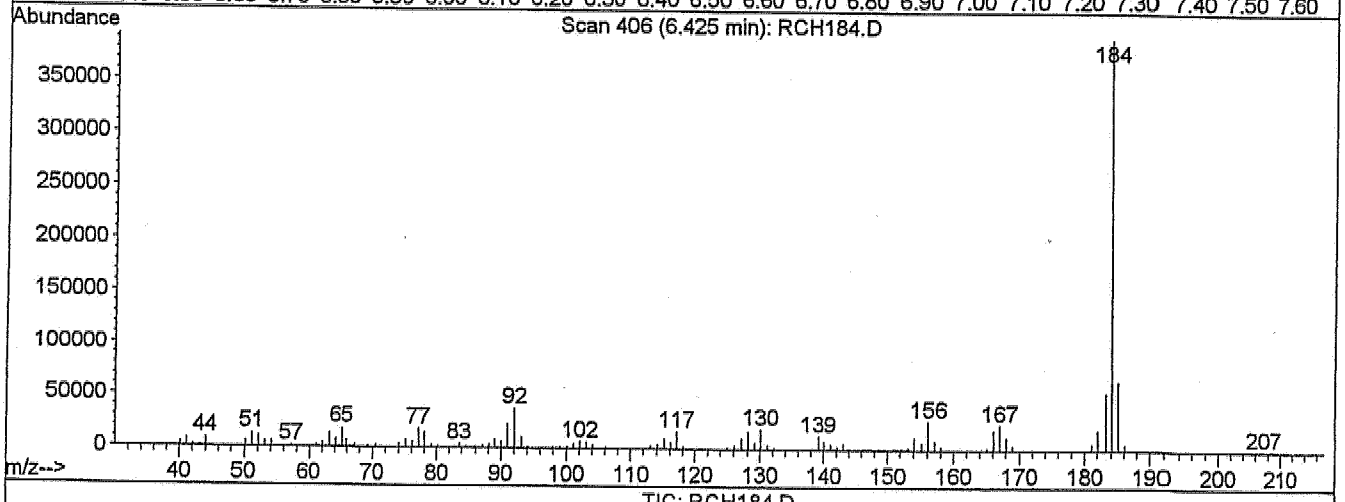
Ion	Exp%	Act%
266.00	100	100
264.00	62.00	66.32
268.00	62.60	62.30
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\06C16\RCH184.D
Acq On : 16 Mar 2006 11:12
Sample : DFT41C1601
Misc :
Quant Time: Mar 16 11:20 2006

Vial: 2
Operator: SG
Inst : TO41
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC
Last Update : Thu Nov 03 17:25:00 2005
Response via : Single Level Calibration





TIC: RCH184.D

(3) Benzidine

6.42min 36.74ng

response 675071

Ion	Exp%	Act%
184.00	100	100
92.00	7.10	9.68
185.00	16.70	16.89
0.00	0.00	0.00

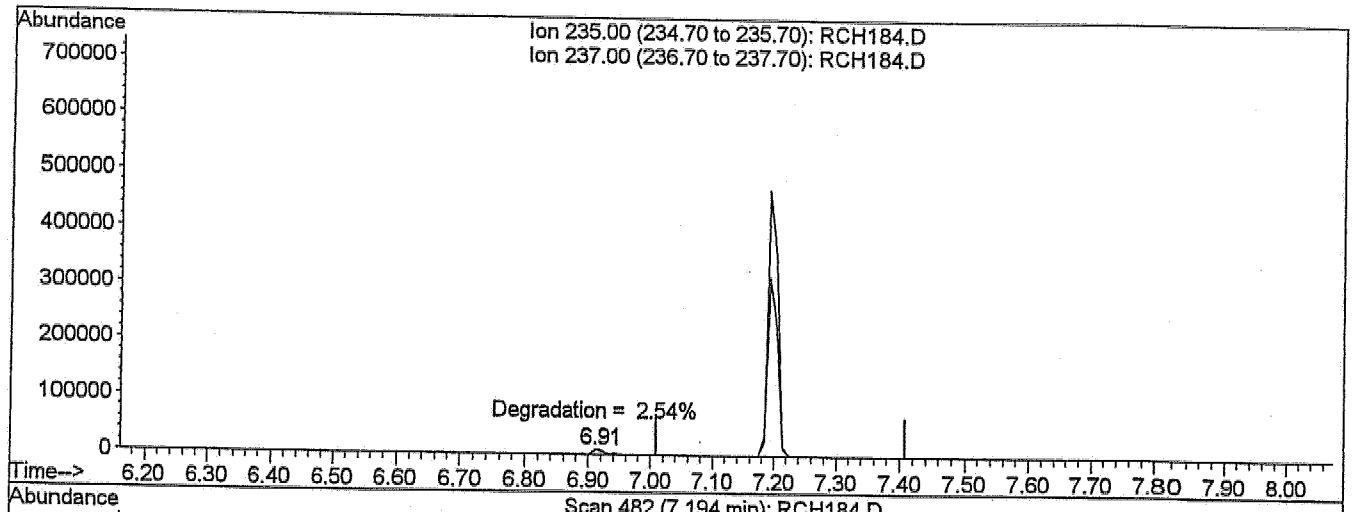
RCH184.D DFTPP.M Fri Mar 17 17:10:34 2006 TO41

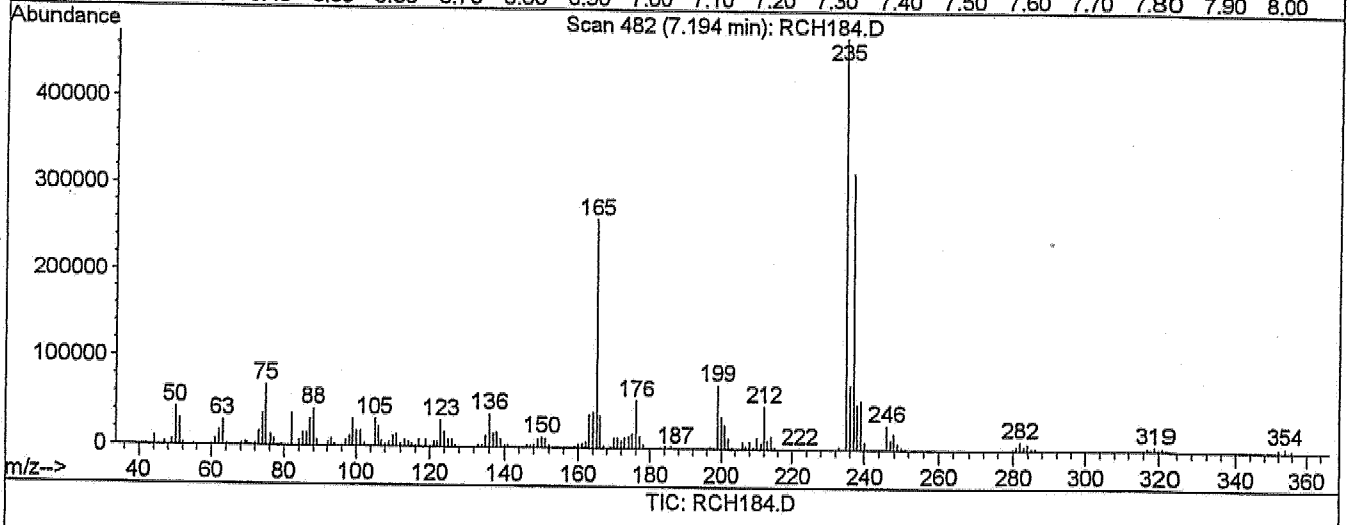
3/22/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH184.D
Acq On : 16 Mar 2006 11:12
Sample : DFT41C1601
Misc :
Quant Time: Mar 16 11:20 2006

Vial: 2
Operator: SG
Inst : TO41
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC
Last Update : Thu Nov 03 17:25:00 2005
Response via : Single Level Calibration





TIC: RCH184.D

(6) DDT

7.19min 45.42ng

response 541439

Ion	Exp%	Act%
235.00	100	100
237.00	65.20	67.13
0.00	0.00	0.00
0.00	0.00	0.00

RCH184.D DFTPP.M Fri Mar 17 17:10:44 2006 TO41

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH185.D Vial: 3
Acq On : 16 Mar 2006 11:29 Operator: SG
Sample : SV41C16 1 Inst : TO41
Misc : 5 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 16:58 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.09	152	374476	40.00	ng	0.00
20) Naphthalene-d8	5.58	136	1320850	40.00	ng	0.00
35) Acenaphthene-d10	7.86	164	753391	40.00	ng	0.00
59) Phenanthrene-d10	9.96	188	1169691	40.00	ng	0.00
68) Chrysene-d12	13.33	240	872161	40.00	ng	0.00
77) Perylene-d12	15.03	264	553483	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.91	112	51296	4.44	ng	0.00
Spiked Amount 150.000			Recovery =	2.96%		
8) Phenol-d5	3.68	99	74087	5.02	ng	0.00
Spiked Amount 150.000			Recovery =	3.35%		
13) 1,2-Dichlorobenzene-d4	4.26	152	50845	5.82	ng	0.00
Spiked Amount 100.000			Recovery =	5.82%		
21) Nitrobenzene-d5	4.70	82	47970	3.49	ng	0.00
Spiked Amount 100.000			Recovery =	3.49%		
39) 2-Fluorobiphenyl	6.97	172	134720	5.02	ng	0.00
Spiked Amount 100.000			Recovery =	5.02%		
58) 2,4,6-Tribromophenol	8.97	330	16456	4.03	ng	0.00
Spiked Amount 150.000			Recovery =	2.69%		
71) Terphenyl-d14	12.06	244	89979	4.73	ng	0.00
Spiked Amount 100.000			Recovery =	4.73%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.09	74	32768	4.46	ng	95
3) Pyridine	2.10	79	60694	4.78	ng	97
5) Phenol	3.70	94	75016	4.73	ng	96
6) Aniline	3.76	93	78677	5.02	ng	95
7) Bis(2-chloroethyl)ether	3.81	93	61644	5.12	ng	96
9) 2-Chlorophenol	3.87	128	65173	5.21	ng	97
10) 1,3-Dichlorobenzene	4.03	146	74099	5.50	ng	96
11) 1,4-Dichlorobenzene	4.11	146	76156	5.62	ng	93
12) Benzyl alcohol	4.23	108	33859	4.11	ng	96
14) 1,2-Dichlorobenzene	4.28	146	71328	5.49	ng	95
15) 2-Methylphenol	4.34	107	47496	4.77	ng	96
16) Bis(2-chloroisopropyl)ethe	4.38	45	98169	5.05	ng	97
17) 4-Methylphenol	4.50	107	67259	4.42	ng	94
18) N-Nitroso-di-n-propylamine	4.52	70	42131	4.39	ng	93

(#) = qualifier out of range (m) = manual integration

3058

Data File : C:\HPCHEM\1\DATA\06C16\RCH185.D Vial: 3
Acq On : 16 Mar 2006 11:29 Operator: SG
Sample : SV41C16 1 Inst : TO41
Misc : 5 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 16:58 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
19)	Hexachloroethane	4.65	117	27742	5.02	ng		89
22)	Nitrobenzene	4.72	77	58773	4.36	ng		98
23)	Isophorone	5.00	82	107502	4.62	ng		99
24)	2-Nitrophenol	5.11	139	26734	3.56	ng		93
25)	2,4-Dimethylphenol	5.15	122	50698	4.52	ng		93
26)	bis(2-Chloroethoxy)methane	5.28	93	77203	5.03	ng		94
27)	Benzoic Acid	5.20	122	4413	0.59	ng	#	80
28)	2,4-Dichlorophenol	5.39	162	53281	4.66	ng		94
29)	1,2,4-Trichlorobenzene	5.51	180	64118	5.28	ng		97
30)	Naphthalene	5.61	128	186037	5.46	ng		98
31)	4-Chloroaniline	5.68	127	72616	4.68	ng		95
32)	Hexachlorobutadiene	5.77	225	37306	5.50	ng		99
33)	4-Chloro-3-methylphenol	6.29	107	49518	4.16	ng		93
34)	2-Methylnaphthalene	6.48	142	115151	5.01	ng		97
36)	Hexachlorocyclopentadiene	6.69	237	13250	2.76	ng		93
37)	2,4,6-Trichlorophenol	6.85	196	40600	4.56	ng		89
38)	2,4,5-Trichlorophenol	6.88	196	32509	3.57	ng		84
40)	2-Chloronaphthalene	7.11	162	117221	5.07	ng		97
41)	2-Nitroaniline	7.25	65	21030	2.46	ng		97
42)	Dimethylphthalate	7.53	163	128111	4.63	ng		99
43)	2,6-Dinitrotoluene	7.60	165	14903	2.28	ng		97
44)	Acenaphthylene	7.67	152	153785	4.54	ng		96
45)	3-Nitroaniline	7.82	138	20552	2.91	ng		93
46)	Acenaphthene	7.91	154	116212	5.47	ng		95
47)	2,4-Dinitrophenol	7.96	184	3724	0.98	ng		98
48)	4-Nitrophenol	8.04	109	7683	2.18	ng		95
49)	Dibenzofuran	8.14	168	171218	5.50	ng		100
50)	2,4-Dinitrotoluene	8.14	165	23378	2.71	ng	#	68
51)	Diethylphthalate	8.51	149	117152	4.55	ng		95
52)	Fluorene	8.63	166	123850	5.07	ng		99
53)	4-Chlorophenyl-phenylether	8.65	204	67604	5.49	ng		96
54)	4-Nitroaniline	8.66	138	19323	2.71	ng	#	71
55)	4,6-Dinitro-2-methylphenol	8.71	198	8565	1.66	ng		86
56)	N-Nitrosodiphenylamine	8.82	169	82897	4.84	ng		95
57)	Azobenzene	8.87	77	128005	4.92	ng		97
60)	4-Bromophenyl-phenylether	9.35	248	39380	5.13	ng		90
61)	Hexachlorobenzene	9.40	284	44841	5.33	ng		92
62)	Pentachlorophenol	9.69	266	16759	2.90	ng		94

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\06C16\RCH185.D Vial: 3
Acq On : 16 Mar 2006 11:29 Operator: SG
Sample : SV41C16 1 Inst : TO41
Misc : 5 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 16:58 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

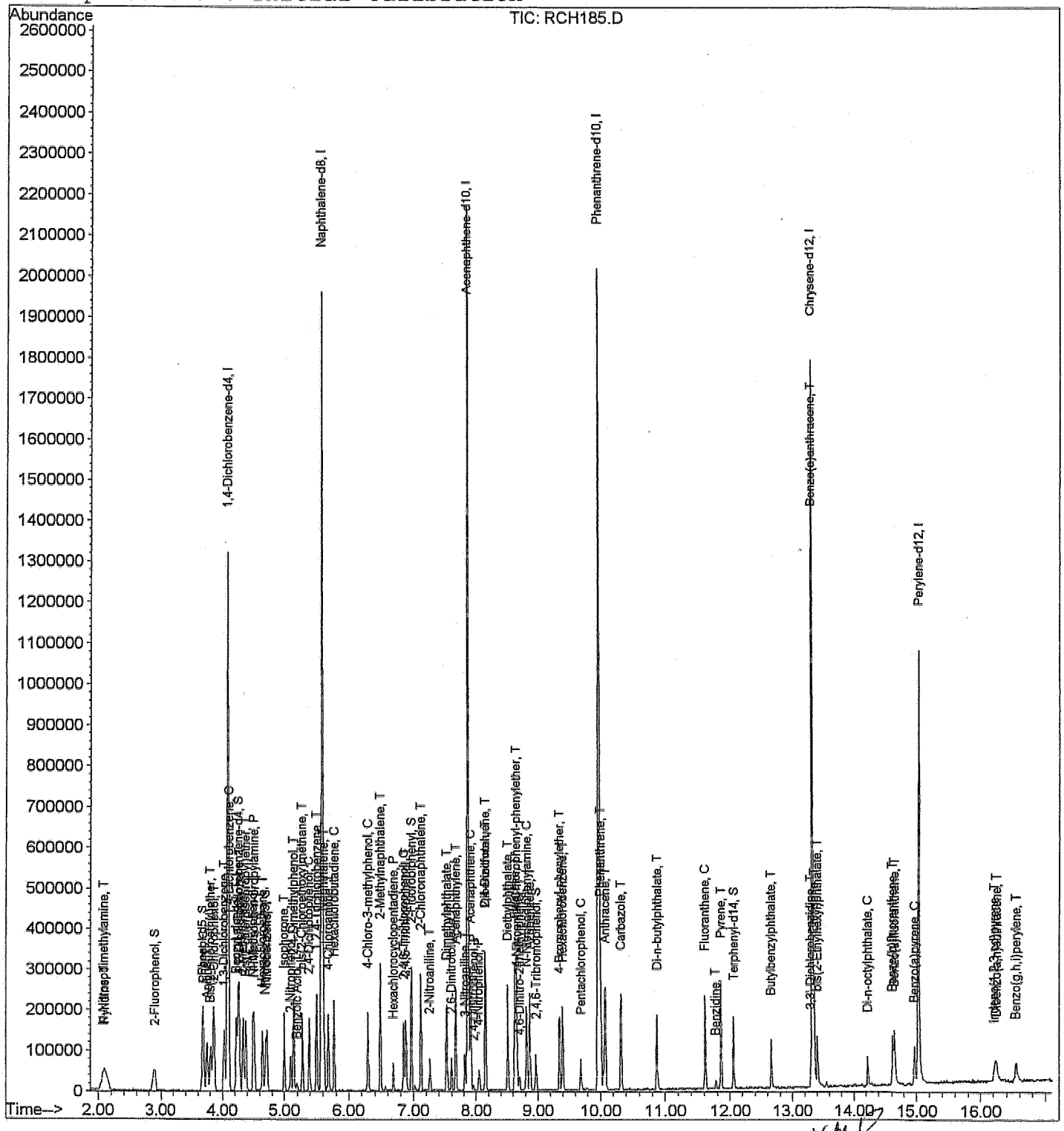
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63)	Phenanthrene	10.00	178	191062	5.42	ng	98
64)	Anthracene	10.08	178	175458	5.19	ng	98
65)	Carbazole	10.32	167	159348	5.13	ng	97
66)	Di-n-butylphthalate	10.88	149	152090	3.89	ng	98
67)	Fluoranthene	11.60	202	137495	4.54	ng	97
69)	Benzidine	11.78	184	16461	5.07	ng	95
70)	Pyrene	11.86	202	148950	4.62	ng	98
72)	Butylbenzylphthalate	12.66	149	36486	2.76	ng	87
73)	3,3'-Dichlorobenzidine	13.30	252	16713	2.26	ng	93
74)	Benzo(a)anthracene	13.32	228	107829	4.82	ng	96
75)	Chrysene	13.36	228	123052	5.14	ng	96
76)	bis(2-Ethylhexyl)phthalate	13.41	149	47063	2.94	ng	97
78)	Di-n-octylphthalate	14.23	149	50486	2.02	ng	89
79)	Benzo(b)fluoranthene	14.61	252	81772	3.43	ng	97
80)	Benzo(k)fluoranthene	14.64	252	92515	5.16	ng	97
81)	Benzo(a)pyrene	14.97	252	83325	4.35	ng	95
82)	Indeno(1,2,3-cd)pyrene	16.21	276	53877	3.29	ng	96
83)	Dibenzo(a,h)anthracene	16.24	278	38656	2.87	ng	96
84)	Benzo(g,h,i)perylene	16.53	276	52987	3.97	ng	94

KMD 3/21/06

(#) = qualifier out of range (m) = manual integration
RCH185.D SV41C16.M Fri Mar 17 17:00:08 2006 TO41

Data File : C:\HPCHEM\1\DATA\06C16\RCH185.D Vial: 3
Acq On : 16 Mar 2006 11:29 Operator: SG
Sample : SV41C16 1 Inst : TO41
Misc : 5 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 16:58 2006 Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration



3061

Data File : C:\HPCHEM\1\DATA\06C16\RCH186.D Vial: 4
Acq On : 16 Mar 2006 11:54 Operator: SG
Sample : SV41C16 2 Inst : TO41
Misc : 10 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:00 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.09	152	374304	40.00	ng	0.00
20) Naphthalene-d8	5.58	136	1303007	40.00	ng	-0.01
35) Acenaphthene-d10	7.87	164	713506	40.00	ng	0.00
59) Phenanthrene-d10	9.96	188	1078298	40.00	ng	-0.01
68) Chrysene-d12	13.32	240	785722	40.00	ng	0.00
77) Perylene-d12	15.03	264	480353	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.91	112	105445	9.13	ng	0.00
Spiked Amount 150.000			Recovery =	6.09%		
8) Phenol-d5	3.69	99	135131	9.17	ng	0.00
Spiked Amount 150.000			Recovery =	6.11%		
13) 1,2-Dichlorobenzene-d4	4.26	152	96890	11.09	ng	-0.01
Spiked Amount 100.000			Recovery =	11.09%		
21) Nitrobenzene-d5	4.70	82	102058	7.53	ng	-0.01
Spiked Amount 100.000			Recovery =	7.53%		
39) 2-Fluorobiphenyl	6.97	172	254771	10.02	ng	0.00
Spiked Amount 100.000			Recovery =	10.02%		
58) 2,4,6-Tribromophenol	8.97	330	33639	8.69	ng	0.00
Spiked Amount 150.000			Recovery =	5.79%		
71) Terphenyl-d14	12.06	244	165993	9.69	ng	0.00
Spiked Amount 100.000			Recovery =	9.69%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.10	74	68688	9.35	ng	77
3) Pyridine	2.10	79	123554	9.74	ng	99
5) Phenol	3.70	94	153562	9.69	ng	98
6) Aniline	3.76	93	167347	10.68	ng	93
7) Bis(2-chloroethyl)ether	3.81	93	113040	9.40	ng	93
9) 2-Chlorophenol	3.87	128	130615	10.44	ng	98
10) 1,3-Dichlorobenzene	4.03	146	142705	10.61	ng	94
11) 1,4-Dichlorobenzene	4.11	146	149219	11.02	ng	96
12) Benzyl alcohol	4.22	108	77584	9.43	ng	93
14) 1,2-Dichlorobenzene	4.28	146	141078	10.87	ng	93
15) 2-Methylphenol	4.34	107	103250	10.38	ng	92
16) Bis(2-chloroisopropyl)ethe	4.38	45	196528	10.11	ng	95
17) 4-Methylphenol	4.51	107	137119	9.02	ng	95
18) N-Nitroso-di-n-propylamine	4.53	70	85019	8.86	ng	96

(#) = qualifier out of range (m) = manual integration

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH186.D Vial: 4
Acq On : 16 Mar 2006 11:54 Operator: SG
Sample : SV41C16 2 Inst : TO41
Misc : 10 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:00 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
19)	Hexachloroethane	4.65	117	50475	9.14	ng	96
22)	Nitrobenzene	4.72	77	119158	8.96	ng	98
23)	Isophorone	5.00	82	222867	9.71	ng	99
24)	2-Nitrophenol	5.11	139	56718	7.66	ng	94
25)	2,4-Dimethylphenol	5.15	122	102266	9.25	ng	95
26)	bis(2-Chloroethoxy)methane	5.28	93	143383	9.48	ng	99
27)	Benzoic Acid	5.22	122	23508	3.21	ng	98
28)	2,4-Dichlorophenol	5.39	162	105672	9.36	ng	97
29)	1,2,4-Trichlorobenzene	5.51	180	118910	9.93	ng	95
30)	Naphthalene	5.61	128	346846	10.32	ng	99
31)	4-Chloroaniline	5.68	127	138309	9.03	ng	92
32)	Hexachlorobutadiene	5.77	225	66977	10.00	ng	96
33)	4-Chloro-3-methylphenol	6.29	107	100942	8.59	ng	98
34)	2-Methylnaphthalene	6.48	142	224750	9.91	ng	99
36)	Hexachlorocyclopentadiene	6.68	237	29365	6.45	ng	99
37)	2,4,6-Trichlorophenol	6.85	196	79787	9.46	ng	94
38)	2,4,5-Trichlorophenol	6.88	196	69834	8.09	ng	94
40)	2-Chloronaphthalene	7.11	162	215443	9.84	ng	96
41)	2-Nitroaniline	7.25	65	52503	6.49	ng	87
42)	Dimethylphthalate	7.52	163	254702	9.72	ng	98
43)	2,6-Dinitrotoluene	7.60	165	38054	6.15	ng	97
44)	Acenaphthylene	7.67	152	304150	9.48	ng	98
45)	3-Nitroaniline	7.82	138	49733	7.43	ng	95
46)	Acenaphthene	7.91	154	209063	10.39	ng	95
47)	2,4-Dinitrophenol	7.96	184	10708	2.98	ng	80
48)	4-Nitrophenol	8.05	109	21005	6.28	ng	88
49)	Dibenzofuran	8.15	168	323198	10.96	ng	97
50)	2,4-Dinitrotoluene	8.14	165	55143	6.74	ng	88
51)	Diethylphthalate	8.51	149	229115	9.40	ng	93
52)	Fluorene	8.63	166	238606	10.31	ng	97
53)	4-Chlorophenyl-phenylether	8.65	204	129847	11.14	ng	99
54)	4-Nitroaniline	8.67	138	55538	8.21	ng	87
55)	4,6-Dinitro-2-methylphenol	8.71	198	22620	4.62	ng	88
56)	N-Nitrosodiphenylamine	8.82	169	160012	9.86	ng	98
57)	Azobenzene	8.87	77	238468	9.68	ng	98
60)	4-Bromophenyl-phenylether	9.35	248	68387	9.66	ng	90
61)	Hexachlorobenzene	9.40	284	82183	10.60	ng	97
62)	Pentachlorophenol	9.69	266	39619	7.43	ng	94

(#) = qualifier out of range (m) = manual integration

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH186.D
Acq On : 16 Mar 2006 11:54
Sample : SV41C16 2
Misc : 10 PPM
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:00 2006

Vial: 4
Operator: SG
Inst : TO41
Multiplr: 1.00
Quant Results File: SV41C16.RES

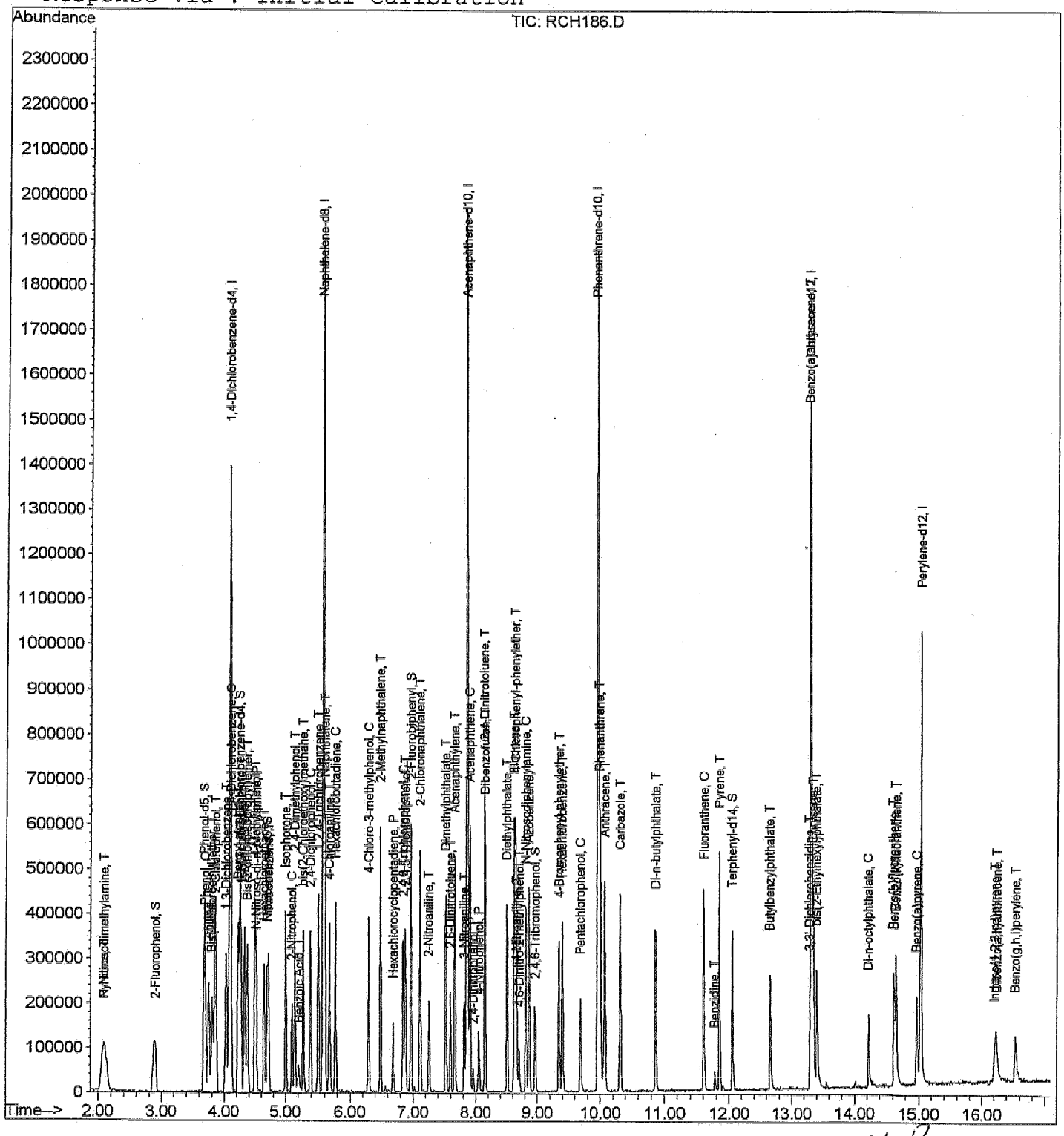
Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63)	Phenanthrene	9.99	178	349857	10.77	ng	98
64)	Anthracene	10.08	178	325769	10.46	ng	100
65)	Carbazole	10.32	167	289440	10.11	ng	98
66)	Di-n-butylphthalate	10.88	149	298322	8.27	ng	97
67)	Fluoranthene	11.61	202	266736	9.55	ng	99
69)	Benzidine	11.78	184	32447	11.09	ng	89
70)	Pyrene	11.86	202	288089	9.91	ng	98
72)	Butylbenzylphthalate	12.66	149	84019	7.06	ng	85
73)	3,3'-Dichlorobenzidine	13.29	252	35597	5.33	ng	76
74)	Benzo(a)anthracene	13.31	228	201611	10.01	ng	97
75)	Chrysene	13.36	228	219049	10.16	ng	97
76)	bis(2-Ethylhexyl)phthalate	13.41	149	100010	6.94	ng	95
78)	Di-n-octylphthalate	14.23	149	115484	5.31	ng	94
79)	Benzo(b)fluoranthene	14.61	252	156820	7.58	ng	95
80)	Benzo(k)fluoranthene	14.64	252	183254	11.77	ng	98
81)	Benzo(a)pyrene	14.96	252	152552	9.17	ng	96
82)	Indeno(1,2,3-cd)pyrene	16.21	276	102999	7.25	ng	90
83)	Dibenzo(a,h)anthracene	16.24	278	83083	7.11	ng	94
84)	Benzo(g,h,i)perylene	16.53	276	101916	8.80	ng	88

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\06C16\RCH186.D Vial: 4
Acq On : 16 Mar 2006 11:54 Operator: SG
Sample : SV41C16 2 Inst : TO41
Misc : 10 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:00 2006 Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration



3065

Data File : C:\HPCHEM\1\DATA\06C16\RCH187.D Vial: 5
Acq On : 16 Mar 2006 12:19 Operator: SG
Sample : SV41C16 3 Inst : TO41
Misc : 20 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:01 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.09	152	416007	40.00	ng	0.00
20) Naphthalene-d8	5.59	136	1448691	40.00	ng	0.00
35) Acenaphthene-d10	7.87	164	799529	40.00	ng	0.00
59) Phenanthrene-d10	9.96	188	1242779	40.00	ng	-0.01
68) Chrysene-d12	13.32	240	919127	40.00	ng	0.00
77) Perylene-d12	15.02	264	568731	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.90	112	236713	18.43	ng	-0.01
Spiked Amount 150.000			Recovery =	12.29%		
8) Phenol-d5	3.69	99	312052	19.04	ng	0.00
Spiked Amount 150.000			Recovery =	12.69%		
13) 1,2-Dichlorobenzene-d4	4.25	152	198405	20.43	ng	-0.01
Spiked Amount 100.000			Recovery =	20.43%		
21) Nitrobenzene-d5	4.70	82	272727	18.10	ng	-0.01
Spiked Amount 100.000			Recovery =	18.10%		
39) 2-Fluorobiphenyl	6.97	172	577197	20.26	ng	0.00
Spiked Amount 100.000			Recovery =	20.26%		
58) 2,4,6-Tribromophenol	8.97	330	86302	19.90	ng	0.00
Spiked Amount 150.000			Recovery =	13.27%		
71) Terphenyl-d14	12.06	244	396640	19.80	ng	0.00
Spiked Amount 100.000			Recovery =	19.80%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.09	74	157060	19.23	ng	91
3) Pyridine	2.14	79	268225	19.02	ng	96
5) Phenol	3.70	94	335650	19.06	ng	90
6) Aniline	3.76	93	357996	20.56	ng	96
7) Bis(2-chloroethyl)ether	3.82	93	266744	19.95	ng	96
9) 2-Chlorophenol	3.87	128	278755	20.05	ng	94
10) 1,3-Dichlorobenzene	4.03	146	305967	20.46	ng	98
11) 1,4-Dichlorobenzene	4.11	146	299110	19.88	ng	99
12) Benzyl alcohol	4.22	108	169498	18.54	ng	98
14) 1,2-Dichlorobenzene	4.27	146	290307	20.13	ng	94
15) 2-Methylphenol	4.34	107	223360	20.21	ng	99
16) Bis(2-chloroisopropyl)ethe	4.38	45	418617	19.39	ng	95
17) 4-Methylphenol	4.51	107	320145	18.96	ng	96
18) N-Nitroso-di-n-propylamine	4.53	70	208542	19.56	ng	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\06C16\RCH187.D Vial: 5
Acq On : 16 Mar 2006 12:19 Operator: SG
Sample : SV41C16 3 Inst : TO41
Misc : 20 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:01 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
19)	Hexachloroethane	4.65	117	109424	17.83	ng	96
22)	Nitrobenzene	4.72	77	282993	19.14	ng	97
23)	Isophorone	5.01	82	485158	19.02	ng	93
24)	2-Nitrophenol	5.10	139	151254	18.37	ng	87
25)	2,4-Dimethylphenol	5.16	122	238182	19.38	ng	98
26)	bis(2-Chloroethoxy)methane	5.29	93	326737	19.42	ng	97
27)	Benzoic Acid	5.25	122	106230	13.05	ng	94
28)	2,4-Dichlorophenol	5.40	162	243703	19.42	ng	95
29)	1,2,4-Trichlorobenzene	5.51	180	269167	20.22	ng	93
30)	Naphthalene	5.61	128	761944	20.39	ng	99
31)	4-Chloroaniline	5.68	127	330294	19.39	ng	95
32)	Hexachlorobutadiene	5.77	225	147367	19.80	ng	95
33)	4-Chloro-3-methylphenol	6.29	107	240129	18.38	ng	98
34)	2-Methylnaphthalene	6.48	142	502217	19.92	ng	100
36)	Hexachlorocyclopentadiene	6.68	237	80188	15.72	ng	99
37)	2,4,6-Trichlorophenol	6.85	196	187470	19.83	ng	99
38)	2,4,5-Trichlorophenol	6.89	196	170616	17.64	ng	91
40)	2-Chloronaphthalene	7.11	162	496101	20.22	ng	99
41)	2-Nitroaniline	7.25	65	148978	16.43	ng	92
42)	Dimethylphthalate	7.52	163	590475	20.12	ng	99
43)	2,6-Dinitrotoluene	7.59	165	112087	16.17	ng	88
44)	Acenaphthylene	7.67	152	716584	19.93	ng	98
45)	3-Nitroaniline	7.82	138	129261	17.24	ng	97
46)	Acenaphthene	7.91	154	466656	20.69	ng	96
47)	2,4-Dinitrophenol	7.96	184	45446	11.27	ng	97
48)	4-Nitrophenol	8.05	109	63104	16.84	ng	97
49)	Dibenzofuran	8.15	168	714603	21.63	ng	94
50)	2,4-Dinitrotoluene	8.14	165	165422	18.05	ng	98
51)	Diethylphthalate	8.52	149	551242	20.18	ng	96
52)	Fluorene	8.63	166	538747	20.77	ng	99
53)	4-Chlorophenyl-phenylether	8.66	204	285141	21.83	ng	93
54)	4-Nitroaniline	8.67	138	138847	18.32	ng	98
55)	4,6-Dinitro-2-methylphenol	8.71	198	84219	15.35	ng	79
56)	N-Nitrosodiphenylamine	8.82	169	360200	19.81	ng	99
57)	Azobenzene	8.87	77	553509	20.05	ng	96
60)	4-Bromophenyl-phenylether	9.35	248	158468	19.42	ng	99
61)	Hexachlorobenzene	9.40	284	176711	19.78	ng	92
62)	Pentachlorophenol	9.69	266	112446	18.30	ng	98

(#) = qualifier out of range (m) = manual integration

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH187.D
Acq On : 16 Mar 2006 12:19
Sample : SV41C16 3
Misc : 20 PPM
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:01 2006

Vial: 5
Operator: SG
Inst : TO41
Multiplr: 1.00
Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) Phenanthrene	10.00	178	758446	20.27	ng	99
64) Anthracene	10.07	178	736293	20.52	ng	98
65) Carbazole	10.32	167	695738	21.08	ng	98
66) Di-n-butylphthalate	10.87	149	777795	18.70	ng	99
67) Fluoranthene	11.61	202	640276	19.90	ng	98
69) Benzidine	11.78	184	74456	21.75	ng	93
70) Pyrene	11.86	202	682282	20.06	ng	99
72) Butylbenzylphthalate	12.66	149	246944	17.73	ng	86
73) 3,3'-Dichlorobenzidine	13.30	252	127386	16.31	ng	98
74) Benzo(a)anthracene	13.31	228	471939	20.03	ng	97
75) Chrysene	13.35	228	517377	20.52	ng	99
76) bis(2-Ethylhexyl)phthalate	13.40	149	295994	17.56	ng	100
78) Di-n-octylphthalate	14.22	149	367739	14.29	ng	90
79) Benzo(b)fluoranthene	14.62	252	386049	15.76	ng	97
80) Benzo(k)fluoranthene	14.65	252	432833	23.47	ng	97
81) Benzo(a)pyrene	14.96	252	374999	19.04	ng	97
82) Indeno(1,2,3-cd)pyrene	16.22	276	301098	17.91	ng	94
83) Dibenzo(a,h)anthracene	16.24	278	243129	17.58	ng	94
84) Benzo(g,h,i)perylene	16.53	276	271659	19.82	ng	96

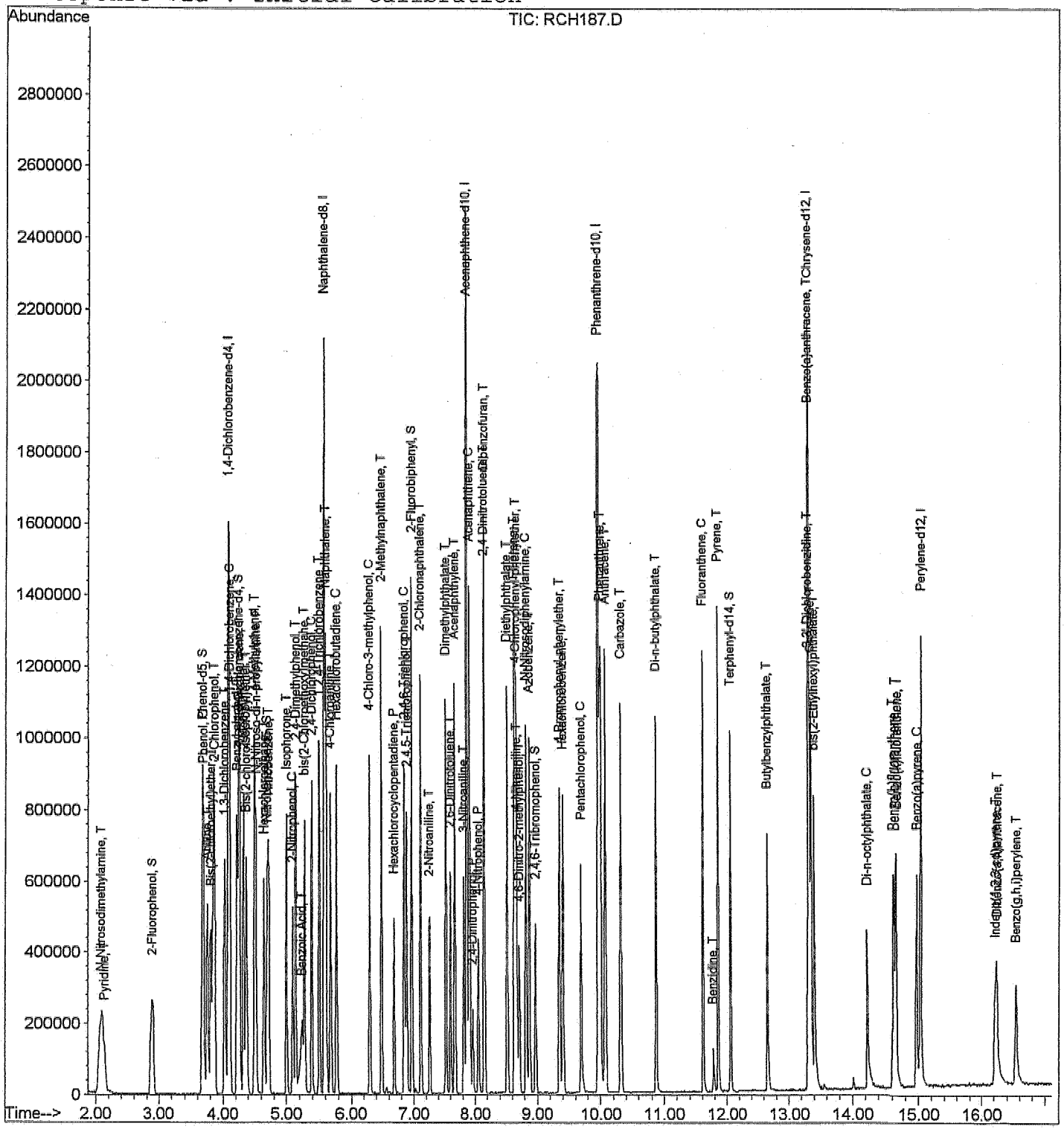
(#) = qualifier out of range (m) = manual integration

3/21

Data File : C:\HPCHEM\1\DATA\06C16\RCH187.D
Acq On : 16 Mar 2006 12:19
Sample : SV41C16 3
Misc : 20 PPM
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:01 2006

Vial: 5
Operator: SG
Inst : TO41
Multiplr: 1.00
Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration



3/20/06
3065

Data File : C:\HPCHEM\1\DATA\06C16\RCH188.D Vial: 6
Acq On : 16 Mar 2006 12:44 Operator: SG
Sample : SV41C16 4 Inst : TO41
Misc : 40 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:02 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.09	152	404915	40.00	ng	0.00
20) Naphthalene-d8	5.59	136	1425557	40.00	ng	0.00
35) Acenaphthene-d10	7.87	164	800591	40.00	ng	0.00
59) Phenanthrene-d10	9.97	188	1207396	40.00	ng	0.00
68) Chrysene-d12	13.32	240	860527	40.00	ng	0.00
77) Perylene-d12	15.02	264	521375	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.91	112	480895	38.47	ng	0.00
Spiked Amount 150.000			Recovery =	25.65%		
8) Phenol-d5	3.69	99	619026	38.81	ng	0.00
Spiked Amount 150.000			Recovery =	25.87%		
13) 1,2-Dichlorobenzene-d4	4.25	152	375315	39.71	ng	-0.01
Spiked Amount 100.000			Recovery =	39.71%		
21) Nitrobenzene-d5	4.71	82	548082	36.96	ng	0.00
Spiked Amount 100.000			Recovery =	36.96%		
39) 2-Fluorobiphenyl	6.97	172	1081093	37.90	ng	0.00
Spiked Amount 100.000			Recovery =	37.90%		
58) 2,4,6-Tribromophenol	8.98	330	164529	37.88	ng	0.00
Spiked Amount 150.000			Recovery =	25.25%		
71) Terphenyl-d14	12.06	244	746486	39.79	ng	0.00
Spiked Amount 100.000			Recovery =	39.79%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.09	74	320441	40.30	ng	94
3) Pyridine	2.10	79	542159	39.50	ng	94
5) Phenol	3.71	94	685836	40.02	ng	95
6) Aniline	3.76	93	685349	40.44	ng	100
7) Bis(2-chloroethyl)ether	3.82	93	514164	39.50	ng	100
9) 2-Chlorophenol	3.88	128	541369	40.01	ng	97
10) 1,3-Dichlorobenzene	4.03	146	601241	41.31	ng	94
11) 1,4-Dichlorobenzene	4.11	146	594720	40.61	ng	97
12) Benzyl alcohol	4.23	108	355379	39.94	ng	97
14) 1,2-Dichlorobenzene	4.27	146	564102	40.18	ng	99
15) 2-Methylphenol	4.33	107	437933	40.71	ng	97
16) Bis(2-chloroisopropyl)ethe	4.39	45	842734	40.09	ng	96
17) 4-Methylphenol	4.52	107	651445	39.63	ng	97
18) N-Nitroso-di-n-propylamine	4.54	70	404777	39.00	ng	97

(#) = qualifier out of range (m) = manual integration

3/17/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH188.D Vial: 6
Acq On : 16 Mar 2006 12:44 Operator: SG
Sample : SV41C16 4 Inst : TO41
Misc : 40 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:02 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
19) Hexachloroethane	4.65	117	224841	37.63	ng	93
22) Nitrobenzene	4.73	77	570733	39.22	ng	96
23) Isophorone	5.01	82	977515	38.95	ng	99
24) 2-Nitrophenol	5.10	139	308892	38.13	ng	99
25) 2,4-Dimethylphenol	5.15	122	479609	39.66	ng	96
26) bis(2-Chloroethoxy)methane	5.29	93	634633	38.34	ng	98
27) Benzoic Acid	5.29	122	283481	35.38	ng	93
28) 2,4-Dichlorophenol	5.40	162	477835	38.70	ng	98
29) 1,2,4-Trichlorobenzene	5.52	180	511528	39.05	ng	98
30) Naphthalene	5.62	128	1447270	39.36	ng	100
31) 4-Chloroaniline	5.69	127	638081	38.07	ng	96
32) Hexachlorobutadiene	5.77	225	295492	40.34	ng	95
33) 4-Chloro-3-methylphenol	6.29	107	484942	37.71	ng	96
34) 2-Methylnaphthalene	6.49	142	968911	39.05	ng	93
36) Hexachlorocyclopentadiene	6.68	237	186197	36.45	ng	95
37) 2,4,6-Trichlorophenol	6.84	196	351094	37.09	ng	100
38) 2,4,5-Trichlorophenol	6.89	196	356683	36.84	ng	97
40) 2-Chloronaphthalene	7.12	162	947741	38.57	ng	97
41) 2-Nitroaniline	7.26	65	333296	36.70	ng	95
42) Dimethylphthalate	7.53	163	1100157	37.44	ng	98
43) 2,6-Dinitrotoluene	7.60	165	246646	35.54	ng	98
44) Acenaphthylene	7.67	152	1357226	37.69	ng	97
45) 3-Nitroaniline	7.83	138	273913	36.49	ng	99
46) Acenaphthene	7.91	154	874355	38.71	ng	95
47) 2,4-Dinitrophenol	7.97	184	140083	34.70	ng	96
48) 4-Nitrophenol	8.06	109	136549	36.40	ng	95
49) Dibenzofuran	8.15	168	1316018	39.78	ng	98
50) 2,4-Dinitrotoluene	8.15	165	340378	37.10	ng	98
51) Diethylphthalate	8.53	149	1055944	38.60	ng	97
52) Fluorene	8.64	166	1007086	38.78	ng	98
53) 4-Chlorophenyl-phenylether	8.66	204	519136	39.68	ng	98
54) 4-Nitroaniline	8.68	138	279463	36.83	ng	92
55) 4,6-Dinitro-2-methylphenol	8.72	198	196594	35.78	ng	83
56) N-Nitrosodiphenylamine	8.83	169	699674	38.44	ng	98
57) Azobenzene	8.88	77	1067264	38.61	ng	99
60) 4-Bromophenyl-phenylether	9.35	248	301364	38.01	ng	98
61) Hexachlorobenzene	9.41	284	335698	38.67	ng	98
62) Pentachlorophenol	9.69	266	224159	37.55	ng	97

(#) = qualifier out of range (m) = manual integration

3071

Data File : C:\HPCHEM\1\DATA\06C16\RCH188.D
Acq On : 16 Mar 2006 12:44
Sample : SV41C16 4
Misc : 40 PPM
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:02 2006

Vial: 6
Operator: SG
Inst : TO41
Multiplr: 1.00
Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

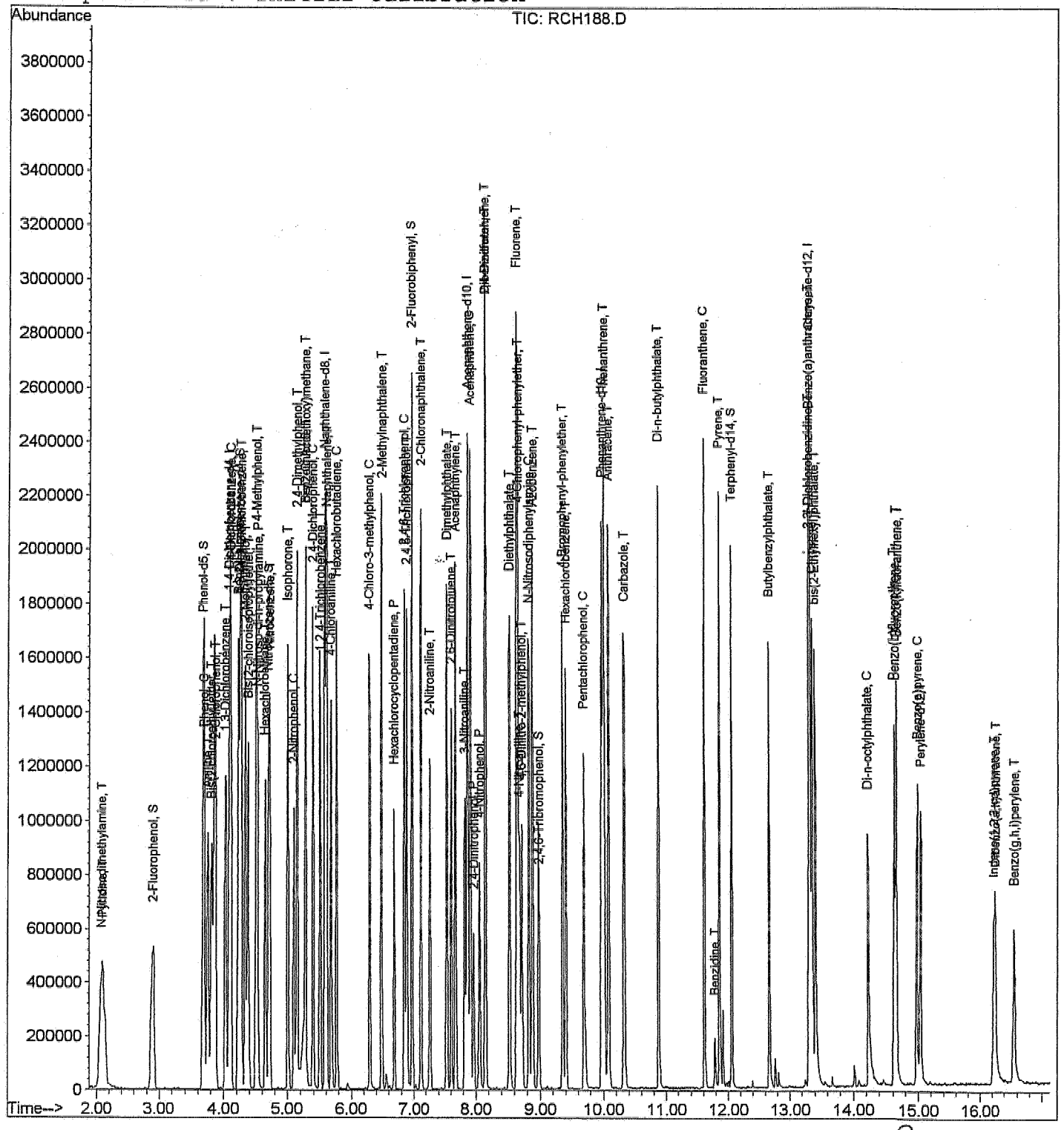
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63)	Phenanthrene	10.00	178	1406504	38.69	ng	99
64)	Anthracene	10.07	178	1365183	39.15	ng	96
65)	Carbazole	10.33	167	1262982	39.40	ng	99
66)	Di-n-butylphthalate	10.87	149	1493488	36.97	ng	99
67)	Fluoranthene	11.61	202	1211385	38.75	ng	99
69)	Benzidine	11.78	184	133675	41.71	ng	91
70)	Pyrene	11.86	202	1279386	40.18	ng	99
72)	Butylbenzylphthalate	12.67	149	500347	38.37	ng	91
73)	3,3'-Dichlorobenzidine	13.30	252	277697	37.98	ng	90
74)	Benzo(a)anthracene	13.31	228	877936	39.81	ng	98
75)	Chrysene	13.36	228	957819	40.58	ng	99
76)	bis(2-Ethylhexyl)phthalate	13.40	149	605194	38.35	ng	97
78)	Di-n-octylphthalate	14.22	149	854434	36.21	ng	87
79)	Benzo(b)fluoranthene	14.62	252	851865	37.93	ng	99
80)	Benzo(k)fluoranthene	14.65	252	659706	39.03	ng	99
81)	Benzo(a)pyrene	14.97	252	697759	38.65	ng	100
82)	Indeno(1,2,3-cd)pyrene	16.22	276	590267	38.30	ng	94
83)	Dibenzo(a,h)anthracene	16.25	278	465787	36.74	ng	97
84)	Benzo(g,h,i)perylene	16.54	276	482456	38.39	ng	94

(#) = qualifier out of range (m) = manual integration

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH188.D Vial: 6
Acq On : 16 Mar 2006 12:44 Operator: SG
Sample : SV41C16 4 Inst : TO41
Misc : 40 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:02 2006 Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration



3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH189.D Vial: 7
Acq On : 16 Mar 2006 13:09 Operator: SG
Sample : SV41C16 5 Inst : TO41
Misc : 50 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:03 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.09	152	430494	40.00	ng	0.00
20) Naphthalene-d8	5.59	136	1462791	40.00	ng	0.00
35) Acenaphthene-d10	7.87	164	798603	40.00	ng	0.00
59) Phenanthrene-d10	9.97	188	1218481	40.00	ng	0.00
68) Chrysene-d12	13.32	240	882905	40.00	ng	0.00
77) Perylene-d12	15.03	264	515385	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.91	112	664428	50.00	ng	0.00
Spiked Amount 150.000			Recovery =	33.33%		
8) Phenol-d5	3.69	99	847857	50.00	ng	0.00
Spiked Amount 150.000			Recovery =	33.33%		
13) 1,2-Dichlorobenzene-d4	4.27	152	502387	50.00	ng	0.00
Spiked Amount 100.000			Recovery =	50.00%		
21) Nitrobenzene-d5	4.71	82	760759	50.00	ng	0.00
Spiked Amount 100.000			Recovery =	50.00%		
39) 2-Fluorobiphenyl	6.97	172	1422889	50.00	ng	0.00
Spiked Amount 100.000			Recovery =	50.00%		
58) 2,4,6-Tribromophenol	8.97	330	216620	50.00	ng	0.00
Spiked Amount 150.000			Recovery =	33.33%		
71) Terphenyl-d14	12.06	244	962305	50.00	ng	0.00
Spiked Amount 100.000			Recovery =	50.00%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.09	74	422662	50.00	ng	100
3) Pyridine	2.09	79	729640	50.00	ng	100
5) Phenol	3.71	94	911039	50.00	ng	100
6) Aniline	3.77	93	900972	50.00	ng	100
7) Bis(2-chloroethyl)ether	3.82	93	691902	50.00	ng	100
9) 2-Chlorophenol	3.88	128	719241	50.00	ng	100
10) 1,3-Dichlorobenzene	4.04	146	773766	50.00	ng	100
11) 1,4-Dichlorobenzene	4.11	146	778576	50.00	ng	100
12) Benzyl alcohol	4.24	108	473033	50.00	ng	100
14) 1,2-Dichlorobenzene	4.28	146	746227	50.00	ng	100
15) 2-Methylphenol	4.34	107	571886	50.00	ng	100
16) Bis(2-chloroisopropyl)ethe	4.38	45	1117325	50.00	ng	100
17) 4-Methylphenol	4.52	107	873839	50.00	ng	100
18) N-Nitroso-di-n-propylamine	4.54	70	551760	50.00	ng	100

(#) = qualifier out of range (m) = manual integration

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH189.D Vial: 7
Acq On : 16 Mar 2006 13:09 Operator: SG
Sample : SV41C16 5 Inst : TO41
Misc : 50 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:03 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
19)	Hexachloroethane	4.65	117	317607	50.00	ng	100
22)	Nitrobenzene	4.73	77	746654	50.00	ng	100
23)	Isophorone	5.01	82	1287698	50.00	ng	100
24)	2-Nitrophenol	5.11	139	415627	50.00	ng	100
25)	2,4-Dimethylphenol	5.16	122	620441	50.00	ng	100
26)	bis(2-Chloroethoxy)methane	5.29	93	849279	50.00	ng	100
27)	Benzoic Acid	5.31	122	411120	50.00	ng	100
28)	2,4-Dichlorophenol	5.40	162	633424	50.00	ng	100
29)	1,2,4-Trichlorobenzene	5.52	180	672070	50.00	ng	100
30)	Naphthalene	5.62	128	1886672	50.00	ng	100
31)	4-Chloroaniline	5.69	127	859971	50.00	ng	100
32)	Hexachlorobutadiene	5.77	225	375810	50.00	ng	100
33)	4-Chloro-3-methylphenol	6.30	107	659769	50.00	ng	100
34)	2-Methylnaphthalene	6.49	142	1273034	50.00	ng	100
36)	Hexachlorocyclopentadiene	6.68	237	254765	50.00	ng	100
37)	2,4,6-Trichlorophenol	6.85	196	472093	50.00	ng	100
38)	2,4,5-Trichlorophenol	6.89	196	482911	50.00	ng	100
40)	2-Chloronaphthalene	7.12	162	1225421	50.00	ng	100
41)	2-Nitroaniline	7.26	65	452927	50.00	ng	100
42)	Dimethylphthalate	7.53	163	1465761	50.00	ng	100
43)	2,6-Dinitrotoluene	7.61	165	346152	50.00	ng	100
44)	Acenaphthylene	7.68	152	1795927	50.00	ng	100
45)	3-Nitroaniline	7.83	138	374387	50.00	ng	100
46)	Acenaphthene	7.92	154	1126583	50.00	ng	100
47)	2,4-Dinitrophenol	7.97	184	201326	50.00	ng	100
48)	4-Nitrophenol	8.06	109	187115	50.00	ng	100
49)	Dibenzofuran	8.15	168	1650167	50.00	ng	100
50)	2,4-Dinitrotoluene	8.15	165	457650	50.00	ng	100
51)	Diethylphthalate	8.53	149	1364374	50.00	ng	100
52)	Fluorene	8.64	166	1295291	50.00	ng	100
53)	4-Chlorophenyl-phenylether	8.66	204	652465	50.00	ng	100
54)	4-Nitroaniline	8.69	138	378466	50.00	ng	100
55)	4,6-Dinitro-2-methylphenol	8.73	198	274069	50.00	ng	100
56)	N-Nitrosodiphenylamine	8.83	169	907939	50.00	ng	100
57)	Azobenzene	8.88	77	1378532	50.00	ng	100
60)	4-Bromophenyl-phenylether	9.35	248	400065	50.00	ng	100
61)	Hexachlorobenzene	9.41	284	438034	50.00	ng	100
62)	Pentachlorophenol	9.69	266	301260	50.00	ng	100

(#) = qualifier out of range (m) = manual integration

3075

Data File : C:\HPCHEM\1\DATA\06C16\RCH189.D Vial: 7
Acq On : 16 Mar 2006 13:09 Operator: SG
Sample : SV41C16 5 Inst : TO41
Misc : 50 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:03 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

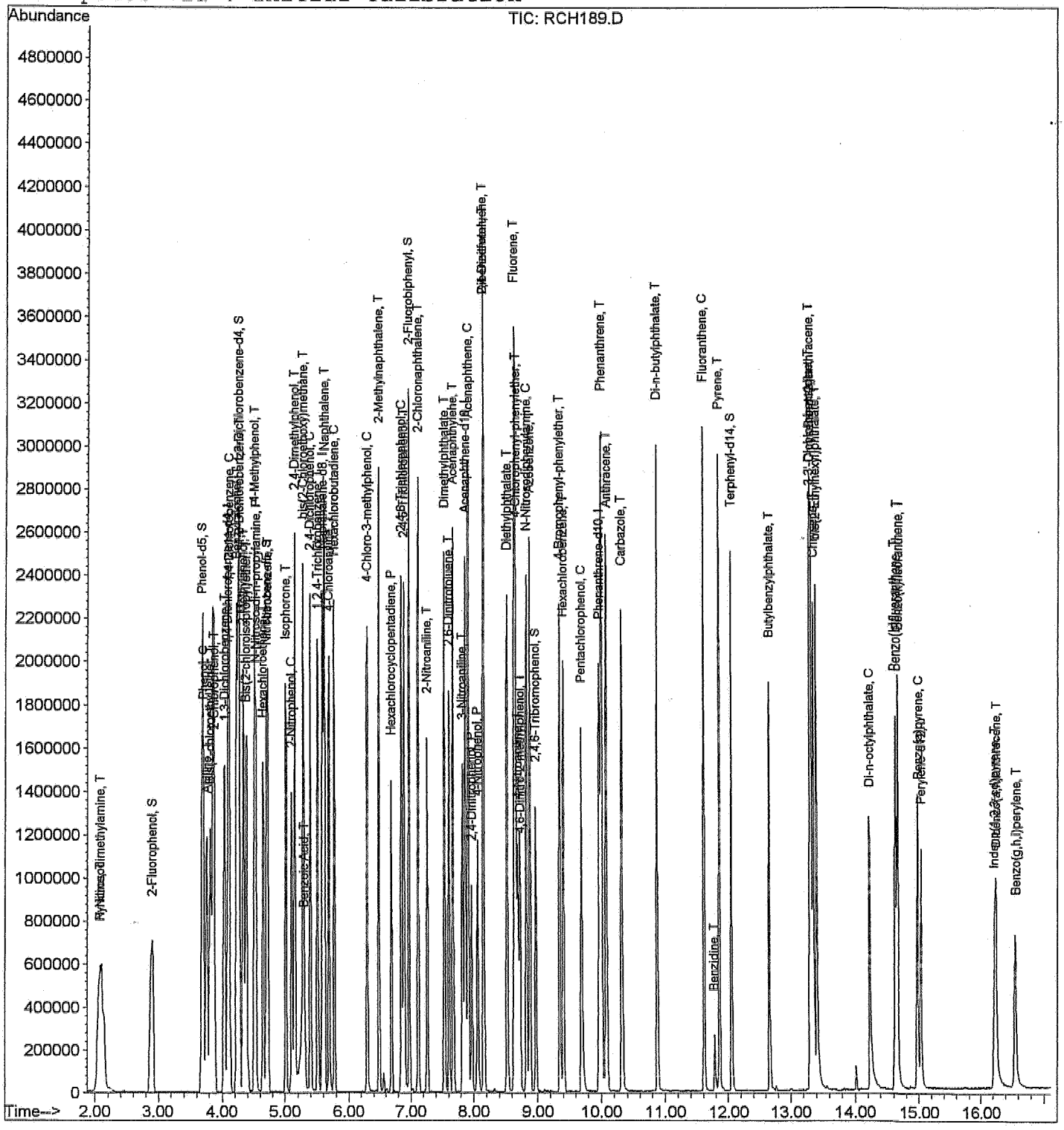
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63)	Phenanthrene	10.00	178	1834545	50.00	ng	100
64)	Anthracene	10.09	178	1759367	50.00	ng	100
65)	Carbazole	10.32	167	1617621	50.00	ng	100
66)	Di-n-butylphthalate	10.88	149	2038675	50.00	ng	100
67)	Fluoranthene	11.61	202	1577448	50.00	ng	100
69)	Benzidine	11.78	184	164419	50.00	ng	100
70)	Pyrene	11.86	202	1633277	50.00	ng	100
72)	Butylbenzylphthalate	12.67	149	668970	50.00	ng	100
73)	3,3'-Dichlorobenzidine	13.30	252	375065	50.00	ng	100
74)	Benzo(a)anthracene	13.31	228	1131444	50.00	ng	100
75)	Chrysene	13.37	228	1210855	50.00	ng	100
76)	bis(2-Ethylhexyl)phthalate	13.41	149	809649	50.00	ng	100
78)	Di-n-octylphthalate	14.24	149	1166276	50.00	ng	100
79)	Benzo(b)fluoranthene	14.62	252	1109947	50.00	ng	100
80)	Benzo(k)fluoranthene	14.65	252	835458	50.00	ng	100
81)	Benzo(a)pyrene	14.97	252	892365	50.00	ng	100
82)	Indeno(1,2,3-cd)pyrene	16.22	276	761815	50.00	ng	100
83)	Dibenzo(a,h)anthracene	16.25	278	626607	50.00	ng	100
84)	Benzo(g,h,i)perylene	16.55	276	621162	50.00	ng	100

(#) = qualifier out of range (m) = manual integration

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH189.D Vial: 7
Acq On : 16 Mar 2006 13:09 Operator: SG
Sample : SV41C16 5 Inst : TO41
Misc : 50 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:03 2006 Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration



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3077

Data File : C:\HPCHEM\1\DATA\06C16\RCH190.D Vial: 8
Acq On : 16 Mar 2006 13:34 Operator: SG
Sample : SV41C16 6 Inst : TO41
Misc : 80 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:04 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.10	152	451913	40.00	ng	0.00
20) Naphthalene-d8	5.60	136	1624766	40.00	ng	0.00
35) Acenaphthene-d10	7.87	164	910755	40.00	ng	0.00
59) Phenanthrene-d10	9.98	188	1426817	40.00	ng	0.00
68) Chrysene-d12	13.33	240	983116	40.00	ng	0.00
77) Perylene-d12	15.03	264	579556	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.91	112	1142235	81.88	ng	0.00
Spiked Amount 150.000			Recovery =	54.59%		
8) Phenol-d5	3.69	99	1427280	80.18	ng	0.00
Spiked Amount 150.000			Recovery =	53.45%		
13) 1,2-Dichlorobenzene-d4	4.26	152	806193	76.43	ng	0.00
Spiked Amount 100.000			Recovery =	76.43%		
21) Nitrobenzene-d5	4.72	82	1338496	79.20	ng	0.00
Spiked Amount 100.000			Recovery =	79.20%		
39) 2-Fluorobiphenyl	6.97	172	2389876	73.64	ng	0.00
Spiked Amount 100.000			Recovery =	73.64%		
58) 2,4,6-Tribromophenol	8.99	330	401844	81.33	ng	0.02
Spiked Amount 150.000			Recovery =	54.22%		
71) Terphenyl-d14	12.06	244	1734013	80.91	ng	0.00
Spiked Amount 100.000			Recovery =	80.91%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.08	74	735947	82.93	ng	92
3) Pyridine	2.12	79	1240667	80.99	ng	100
5) Phenol	3.71	94	1534272	80.21	ng	96
6) Aniline	3.77	93	1580313	83.54	ng	97
7) Bis(2-chloroethyl)ether	3.83	93	1120932	77.16	ng	97
9) 2-Chlorophenol	3.89	128	1210979	80.19	ng	99
10) 1,3-Dichlorobenzene	4.04	146	1320173	81.26	ng	96
11) 1,4-Dichlorobenzene	4.12	146	1318024	80.63	ng	96
12) Benzyl alcohol	4.24	108	813573	81.92	ng	96
14) 1,2-Dichlorobenzene	4.28	146	1227036	78.32	ng	99
15) 2-Methylphenol	4.34	107	997903	83.11	ng	97
16) Bis(2-chloroisopropyl)ethe	4.38	45	1840880	78.47	ng	99
17) 4-Methylphenol	4.53	107	1487928	81.10	ng	99
18) N-Nitroso-di-n-propylamine	4.55	70	955667	82.50	ng	94

(#) = qualifier out of range (m) = manual integration
RCH190.D SV41C16.M Fri Mar 17 17:04:51 2006 TO41 EMP 3/21/06 Page 1

Data File : C:\HPCHEM\1\DATA\06C16\RCH190.D Vial: 8
Acq On : 16 Mar 2006 13:34 Operator: SG
Sample : SV41C16 6 Inst : TO41
Misc : 80 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:04 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
19)	Hexachloroethane	4.66	117	520897	78.12	ng	93
22)	Nitrobenzene	4.74	77	1338028	80.67	ng	98
23)	Isophorone	5.03	82	2263499	79.13	ng	98
24)	2-Nitrophenol	5.11	139	744705	80.66	ng	98
25)	2,4-Dimethylphenol	5.16	122	1082842	78.56	ng	99
26)	bis(2-Chloroethoxy)methane	5.29	93	1416839	75.10	ng	100
27)	Benzoic Acid	5.36	122	810404	88.73	ng	97
28)	2,4-Dichlorophenol	5.40	162	1096470	77.92	ng	99
29)	1,2,4-Trichlorobenzene	5.52	180	1160371	77.72	ng	98
30)	Naphthalene	5.63	128	3191415	76.15	ng	99
31)	4-Chloroaniline	5.70	127	1456963	76.27	ng	98
32)	Hexachlorobutadiene	5.78	225	646865	77.48	ng	98
33)	4-Chloro-3-methylphenol	6.30	107	1166748	79.61	ng	93
34)	2-Methylnaphthalene	6.49	142	2180370	77.10	ng	99
36)	Hexachlorocyclopentadiene	6.69	237	489146	84.18	ng	98
37)	2,4,6-Trichlorophenol	6.85	196	848544	78.80	ng	99
38)	2,4,5-Trichlorophenol	6.89	196	822320	74.66	ng	92
40)	2-Chloronaphthalene	7.13	162	2093134	74.89	ng	99
41)	2-Nitroaniline	7.27	65	870761	84.29	ng	96
42)	Dimethylphthalate	7.54	163	2613663	78.18	ng	99
43)	2,6-Dinitrotoluene	7.62	165	644143	81.59	ng	95
44)	Acenaphthylene	7.68	152	3174273	77.49	ng	98
45)	3-Nitroaniline	7.84	138	691941	81.03	ng	97
46)	Acenaphthene	7.92	154	1931952	75.19	ng	97
47)	2,4-Dinitrophenol	7.98	184	426218	92.82	ng	83
48)	4-Nitrophenol	8.08	109	373858	87.60	ng	99
49)	Dibenzofuran	8.16	168	2836131	75.35	ng	99
50)	2,4-Dinitrotoluene	8.17	165	810855	77.68	ng	93
51)	Diethylphthalate	8.53	149	2392942	76.90	ng	98
52)	Fluorene	8.64	166	2291840	77.57	ng	97
53)	4-Chlorophenyl-phenylether	8.66	204	1143289	76.82	ng	99
54)	4-Nitroaniline	8.71	138	665358	77.08	ng	97
55)	4,6-Dinitro-2-methylphenol	8.74	198	537577	86.00	ng	92
56)	N-Nitrosodiphenylamine	8.84	169	1608637	77.68	ng	100
57)	Azobenzene	8.89	77	2448440	77.87	ng	97
60)	4-Bromophenyl-phenylether	9.35	248	719379	76.78	ng	98
61)	Hexachlorobenzene	9.41	284	784407	76.46	ng	98
62)	Pentachlorophenol	9.70	266	588017	83.34	ng	99

(#) = qualifier out of range (m) = manual integration

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH190.D Vial: 8
Acq On : 16 Mar 2006 13:34 Operator: SG
Sample : SV41C16 6 Inst : TO41
Misc : 80 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:04 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63)	Phenanthrene	10.01	178	3248744	75.61	ng	100
64)	Anthracene	10.09	178	3119101	75.70	ng	99
65)	Carbazole	10.33	167	2848147	75.18	ng	99
66)	Di-n-butylphthalate	10.88	149	3699775	77.49	ng	99
67)	Fluoranthene	11.62	202	2864418	77.54	ng	99
69)	Benzidine	11.78	184	296778	81.05	ng	98
70)	Pyrene	11.86	202	2921014	80.31	ng	99
72)	Butylbenzylphthalate	12.66	149	1269804	85.23	ng	85
73)	3,3'-Dichlorobenzidine	13.31	252	719832	86.18	ng	97
74)	Benzo(a)anthracene	13.32	228	2001441	79.43	ng	98
75)	Chrysene	13.37	228	2132158	79.07	ng	97
76)	bis(2-Ethylhexyl)phthalate	13.41	149	1512786	83.90	ng	96
78)	Di-n-octylphthalate	14.23	149	2288498	87.25	ng	88
79)	Benzo(b)fluoranthene	14.63	252	1999052	80.08	ng	99
80)	Benzo(k)fluoranthene	14.66	252	1480754	78.81	ng	98
81)	Benzo(a)pyrene	14.97	252	1543218	76.89	ng	94
82)	Indeno(1,2,3-cd)pyrene	16.23	276	1391070	81.19	ng	97
83)	Dibenzo(a,h)anthracene	16.25	278	1099850	78.04	ng	96
84)	Benzo(g,h,i)perylene	16.55	276	1083966	77.59	ng	94

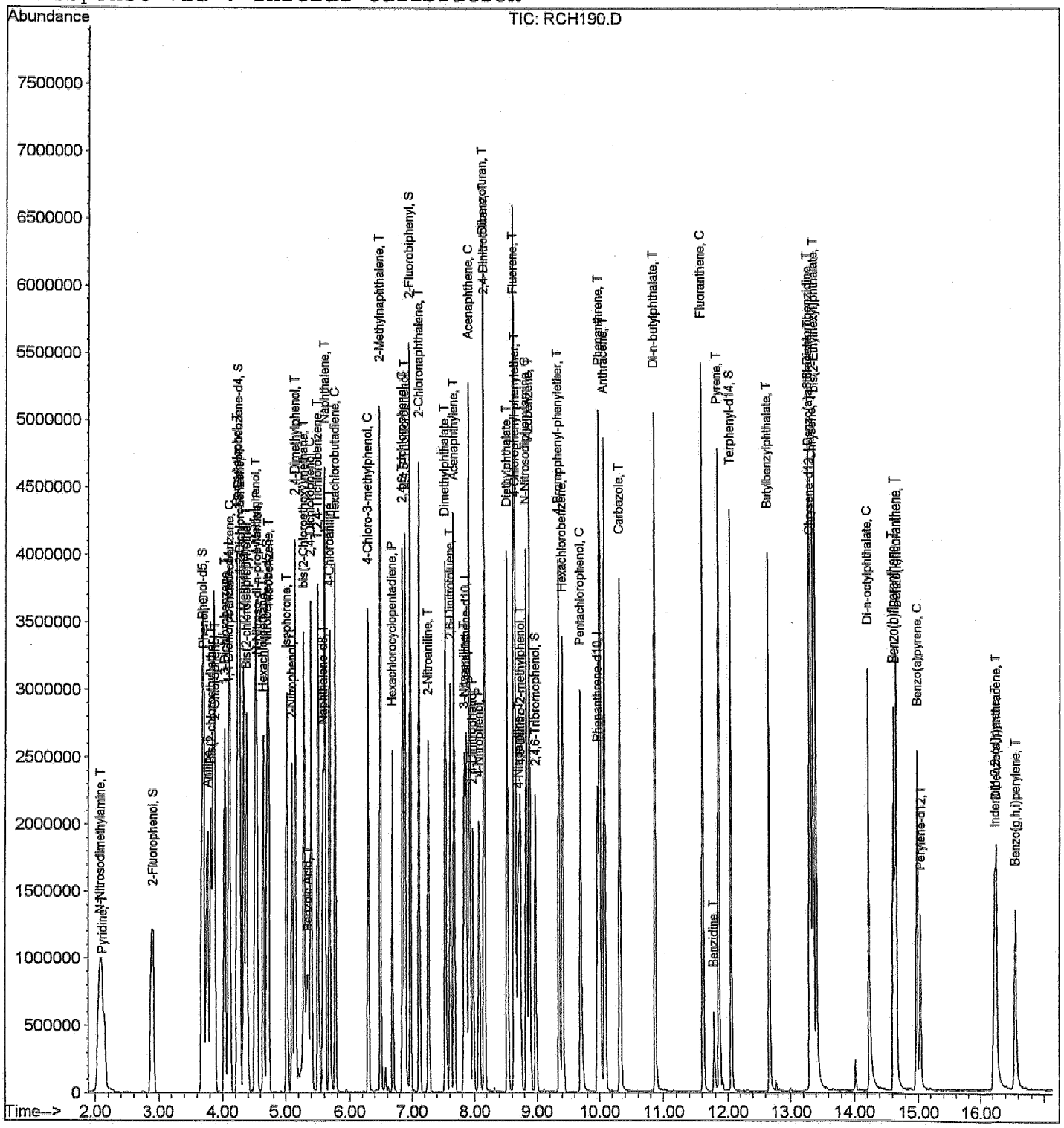
(#) = qualifier out of range (m) = manual integration

3/21/06

3080

Data File : C:\HPCHEM\1\DATA\06C16\RCH190.D Vial: 8
Acq On : 16 Mar 2006 13:34 Operator: SG
Sample : SV41C16 6 Inst : TO41
Misc : 80 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:04 2006 Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration



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3081

Data File : C:\HPCHEM\1\DATA\06C16\RCH191.D Vial: 9
Acq On : 16 Mar 2006 13:59 Operator: SG
Sample : SV41C16 7 Inst : TO41
Misc : 100 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:05 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.10	152	372543	40.00	ng	0.00
20) Naphthalene-d8	5.59	136	1298878	40.00	ng	0.00
35) Acenaphthene-d10	7.87	164	709118	40.00	ng	0.00
59) Phenanthrene-d10	9.98	188	1075527	40.00	ng	0.00
68) Chrysene-d12	13.34	240	729956	40.00	ng	0.01
77) Perylene-d12	15.03	264	413542	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.90	112	1164210	101.24	ng	0.00
Spiked Amount 150.000			Recovery =	67.49%		
8) Phenol-d5	3.70	99	1439837	98.12	ng	0.01
Spiked Amount 150.000			Recovery =	65.41%		
13) 1,2-Dichlorobenzene-d4	4.27	152	805565	92.65	ng	0.00
Spiked Amount 100.000			Recovery =	92.65%		
21) Nitrobenzene-d5	4.71	82	1315667	97.38	ng	0.00
Spiked Amount 100.000			Recovery =	97.38%		
39) 2-Fluorobiphenyl	6.97	172	2350968	93.04	ng	0.00
Spiked Amount 100.000			Recovery =	93.04%		
58) 2,4,6-Tribromophenol	8.98	330	387816	100.81	ng	0.01
Spiked Amount 150.000			Recovery =	67.21%		
71) Terphenyl-d14	12.06	244	1592616	100.09	ng	0.00
Spiked Amount 100.000			Recovery =	100.09%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.09	74	757716	103.58	ng	100
3) Pyridine	2.11	79	1310784	103.80	ng	94
5) Phenol	3.71	94	1539917	97.66	ng	93
6) Aniline	3.77	93	1550172	99.41	ng	100
7) Bis(2-chloroethyl)ether	3.82	93	1147223	95.80	ng	100
9) 2-Chlorophenol	3.88	128	1214172	97.54	ng	98
10) 1,3-Dichlorobenzene	4.03	146	1326289	99.04	ng	98
11) 1,4-Dichlorobenzene	4.12	146	1324605	98.30	ng	96
12) Benzyl alcohol	4.24	108	825616	100.84	ng	97
14) 1,2-Dichlorobenzene	4.28	146	1213836	93.98	ng	100
15) 2-Methylphenol	4.35	107	987709	99.79	ng	99
16) Bis(2-chloroisopropyl)ethe	4.39	45	1855383	95.94	ng	95
17) 4-Methylphenol	4.53	107	1501227	99.26	ng	99
18) N-Nitroso-di-n-propylamine	4.55	70	935157	97.93	ng	93

(#) = qualifier out of range (m) = manual integration

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH191.D Vial: 9
Acq On : 16 Mar 2006 13:59 Operator: SG
Sample : SV41C16 7 Inst : TO41
Misc : 100 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:05 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
19)	Hexachloroethane	4.65	117	524362	95.39	ng	93
22)	Nitrobenzene	4.74	77	1279197	96.47	ng	96
23)	Isophorone	5.03	82	2210618	96.67	ng	100
24)	2-Nitrophenol	5.12	139	733978	99.44	ng	94
25)	2,4-Dimethylphenol	5.16	122	1074230	97.49	ng	100
26)	bis(2-Chloroethoxy)methane	5.29	93	1406833	93.28	ng	98
27)	Benzoic Acid	5.36	122	807649	110.62	ng	96
28)	2,4-Dichlorophenol	5.41	162	1097250	97.54	ng	97
29)	1,2,4-Trichlorobenzene	5.52	180	1110605	93.05	ng	94
30)	Naphthalene	5.62	128	3134377	93.55	ng	100
31)	4-Chloroaniline	5.69	127	1450733	94.99	ng	99
32)	Hexachlorobutadiene	5.78	225	635943	95.29	ng	98
33)	4-Chloro-3-methylphenol	6.30	107	1120125	95.60	ng	99
34)	2-Methylnaphthalene	6.49	142	2079632	91.99	ng	98
36)	Hexachlorocyclopentadiene	6.69	237	468982	103.66	ng	98
37)	2,4,6-Trichlorophenol	6.85	196	795388	94.87	ng	97
38)	2,4,5-Trichlorophenol	6.89	196	831877	97.00	ng	97
40)	2-Chloronaphthalene	7.12	162	2033984	93.46	ng	100
41)	2-Nitroaniline	7.27	65	822336	102.24	ng	97
42)	Dimethylphthalate	7.54	163	2448914	94.08	ng	98
43)	2,6-Dinitrotoluene	7.62	165	621773	101.15	ng	97
44)	Acenaphthylene	7.68	152	2984015	93.56	ng	98
45)	3-Nitroaniline	7.84	138	665665	100.12	ng	99
46)	Acenaphthene	7.92	154	1841445	92.04	ng	97
47)	2,4-Dinitrophenol	7.98	184	411825	115.18	ng	95
48)	4-Nitrophenol	8.07	109	349811	105.27	ng	98
49)	Dibenzofuran	8.16	168	2702852	92.23	ng	98
50)	2,4-Dinitrotoluene	8.16	165	777510	95.67	ng	98
51)	Diethylphthalate	8.53	149	2314134	95.51	ng	97
52)	Fluorene	8.64	166	2168765	94.28	ng	99
53)	4-Chlorophenyl-phenylether	8.66	204	1048913	90.52	ng	94
54)	4-Nitroaniline	8.71	138	636665	94.73	ng	98
55)	4,6-Dinitro-2-methylphenol	8.74	198	527010	108.28	ng	89
56)	N-Nitrosodiphenylamine	8.84	169	1522084	94.40	ng	99
57)	Azobenzene	8.88	77	2346608	95.85	ng	94
60)	4-Bromophenyl-phenylether	9.36	248	666101	94.31	ng	94
61)	Hexachlorobenzene	9.41	284	752273	97.28	ng	95
62)	Pentachlorophenol	9.70	266	546475	102.75	ng	99

(#) = qualifier out of range (m) = manual integration

3083

Data File : C:\HPCHEM\1\DATA\06C16\RCH191.D Vial: 9
Acq On : 16 Mar 2006 13:59 Operator: SG
Sample : SV41C16 7 Inst : TO41
Misc : 100 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:05 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63)	Phenanthrene	10.02	178	3030921	93.59	ng	99
64)	Anthracene	10.09	178	2950024	94.98	ng	98
65)	Carbazole	10.33	167	2639682	92.44	ng	99
66)	Di-n-butylphthalate	10.88	149	3324729	92.38	ng	98
67)	Fluoranthene	11.62	202	2637359	94.71	ng	98
69)	Benzidine	11.79	184	247898	91.18	ng	95
70)	Pyrene	11.87	202	2695905	99.82	ng	98
72)	Butylbenzylphthalate	12.67	149	1163090	105.15	ng	96
73)	3,3'-Dichlorobenzidine	13.31	252	640015	103.20	ng	95
74)	Benzo(a)anthracene	13.32	228	1971848	105.40	ng	99
75)	Chrysene	13.37	228	1910213	95.41	ng	98
76)	bis(2-Ethylhexyl)phthalate	13.41	149	1358901	101.50	ng	97
78)	Di-n-octylphthalate	14.24	149	2010880	107.44	ng	100
79)	Benzo(b)fluoranthene	14.62	252	1713404	96.19	ng	99
80)	Benzo(k)fluoranthene	14.66	252	1395692	104.10	ng	94
81)	Benzo(a)pyrene	14.97	252	1399374	97.72	ng	98
82)	Indeno(1,2,3-cd)pyrene	16.22	276	1218417	99.66	ng	94
83)	Dibenzo(a,h)anthracene	16.25	278	989094	98.36	ng	99
84)	Benzo(g,h,i)perylene	16.56	276	973382	97.65	ng	99

(#) = qualifier out of range (m) = manual integration

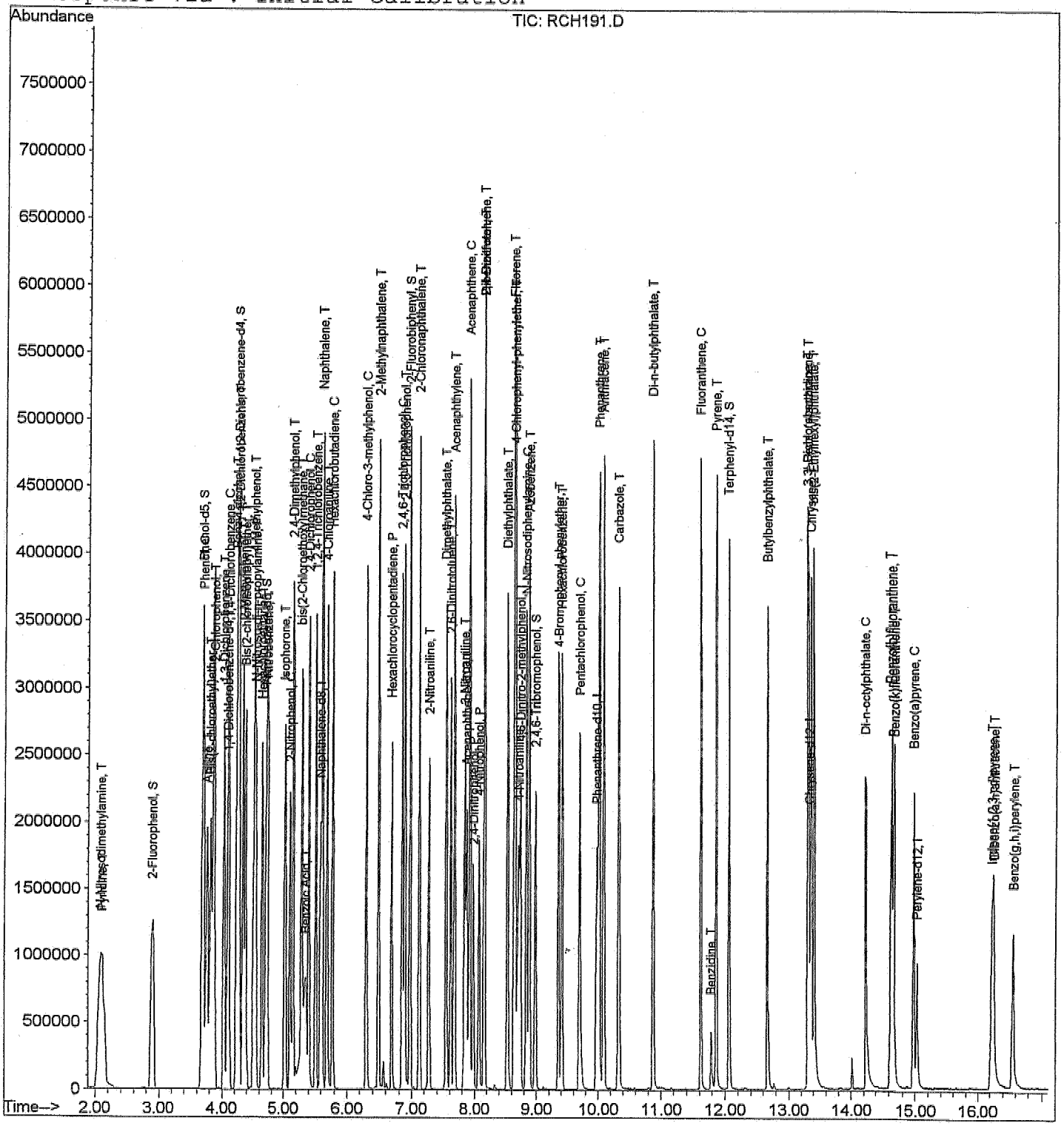
3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH191.D
Acq On : 16 Mar 2006 13:59
Sample : SV41C16 7
Misc : 100 PPM
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:05 2006

Vial: 9
Operator: SG
Inst : TO41
Multiplr: 1.00

Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration



3085

Data File : C:\HPCHEM\1\DATA\06C16\RCH192.D Vial: 10
Acq On : 16 Mar 2006 14:24 Operator: SG
Sample : SV41C16 8 Inst : TO41
Misc : 120 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:06 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.10	152	372447	40.00	ng	0.00
20) Naphthalene-d8	5.59	136	1319752	40.00	ng	0.00
35) Acenaphthene-d10	7.87	164	718762	40.00	ng	0.00
59) Phenanthrene-d10	9.97	188	1074999	40.00	ng	0.00
68) Chrysene-d12	13.33	240	723924	40.00	ng	0.00
77) Perylene-d12	15.02	264	408877	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.90	112	1380873	120.11	ng	-0.01
Spiked Amount 150.000			Recovery =	80.07%		
8) Phenol-d5	3.71	99	1673917	114.10	ng	0.02
Spiked Amount 150.000			Recovery =	76.07%		
13) 1,2-Dichlorobenzene-d4	4.26	152	941327	108.29	ng	0.00
Spiked Amount 100.000			Recovery =	108.29%		
21) Nitrobenzene-d5	4.72	82	1601053	116.63	ng	0.00
Spiked Amount 100.000			Recovery =	116.63%		
39) 2-Fluorobiphenyl	6.98	172	2702113	105.50	ng	0.00
Spiked Amount 100.000			Recovery =	105.50%		
58) 2,4,6-Tribromophenol	8.99	330	465659	119.42	ng	0.02
Spiked Amount 150.000			Recovery =	79.61%		
71) Terphenyl-d14	12.06	244	1897969	120.27	ng	0.00
Spiked Amount 100.000			Recovery =	120.27%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.09	74	901333	123.24	ng	93
3) Pyridine	2.13	79	1551448	122.89	ng	100
5) Phenol	3.72	94	1828963	116.02	ng	94
6) Aniline	3.78	93	1861656	119.42	ng	96
7) Bis(2-chloroethyl)ether	3.83	93	1308444	109.29	ng	99
9) 2-Chlorophenol	3.88	128	1425776	114.56	ng	91
10) 1,3-Dichlorobenzene	4.04	146	1552778	115.98	ng	98
11) 1,4-Dichlorobenzene	4.12	146	1571344	116.64	ng	94
12) Benzyl alcohol	4.24	108	941928	115.08	ng	99
14) 1,2-Dichlorobenzene	4.29	146	1407248	108.99	ng	98
15) 2-Methylphenol	4.35	107	1169046	118.14	ng	98
16) Bis(2-chloroisopropyl)ethe	4.39	45	2160788	111.76	ng	98
17) 4-Methylphenol	4.53	107	1763775	116.65	ng	99
18) N-Nitroso-di-n-propylamine	4.56	70	1104657	115.70	ng	97

(#) = qualifier out of range (m) = manual integration

3086

Data File : C:\HPCHEM\1\DATA\06C16\RCH192.D Vial: 10
Acq On : 16 Mar 2006 14:24 Operator: SG
Sample : SV41C16 8 Inst : TO41
Misc : 120 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:06 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
19)	Hexachloroethane	4.66	117	621280	113.05	ng	87
22)	Nitrobenzene	4.74	77	1519318	112.77	ng	99
23)	Isophorone	5.03	82	2617998	112.67	ng	99
24)	2-Nitrophenol	5.12	139	880202	117.36	ng	96
25)	2,4-Dimethylphenol	5.17	122	1262251	112.75	ng	99
26)	bis(2-Chloroethoxy)methane	5.30	93	1673203	109.18	ng	98
27)	Benzoic Acid	5.38	122	1012019	136.42	ng	99
28)	2,4-Dichlorophenol	5.41	162	1271589	111.25	ng	98
29)	1,2,4-Trichlorobenzene	5.52	180	1310900	108.10	ng	97
30)	Naphthalene	5.62	128	3688729	108.35	ng	99
31)	4-Chloroaniline	5.70	127	1688554	108.82	ng	97
32)	Hexachlorobutadiene	5.78	225	746167	110.03	ng	97
33)	4-Chloro-3-methylphenol	6.30	107	1340677	112.61	ng	97
34)	2-Methylnaphthalene	6.49	142	2482841	108.09	ng	98
36)	Hexachlorocyclopentadiene	6.68	237	557574	121.58	ng	98
37)	2,4,6-Trichlorophenol	6.86	196	990649	116.58	ng	98
38)	2,4,5-Trichlorophenol	6.90	196	914357	105.19	ng	96
40)	2-Chloronaphthalene	7.13	162	2391701	108.43	ng	99
41)	2-Nitroaniline	7.27	65	1013819	124.35	ng	93
42)	Dimethylphthalate	7.54	163	2929271	111.02	ng	99
43)	2,6-Dinitrotoluene	7.63	165	736763	118.24	ng	92
44)	Acenaphthylene	7.68	152	3502281	108.34	ng	99
45)	3-Nitroaniline	7.85	138	803072	119.17	ng	93
46)	Acenaphthene	7.92	154	2214577	109.21	ng	96
47)	2,4-Dinitrophenol	7.98	184	506946	139.89	ng	81
48)	4-Nitrophenol	8.08	109	438277	130.12	ng	96
49)	Dibenzofuran	8.16	168	3184036	107.19	ng	98
50)	2,4-Dinitrotoluene	8.17	165	944684	114.68	ng	87
51)	Diethylphthalate	8.54	149	2745205	111.78	ng	99
52)	Fluorene	8.65	166	2550641	109.40	ng	98
53)	4-Chlorophenyl-phenylether	8.66	204	1252486	106.64	ng	87
54)	4-Nitroaniline	8.72	138	752290	110.43	ng	97
55)	4,6-Dinitro-2-methylphenol	8.75	198	627003	127.09	ng	92
56)	N-Nitrosodiphenylamine	8.84	169	1841807	112.69	ng	96
57)	Azobenzene	8.89	77	3030779	122.14	ng	97
60)	4-Bromophenyl-phenylether	9.36	248	792391	112.25	ng	100
61)	Hexachlorobenzene	9.42	284	875948	113.33	ng	97
62)	Pentachlorophenol	9.70	266	648155	121.93	ng	97

(#) = qualifier out of range (m) = manual integration

3087

Data File : C:\HPCHEM\1\DATA\06C16\RCH192.D
Acq On : 16 Mar 2006 14:24
Sample : SV41C16 8
Misc : 120 PPM
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:06 2006

Vial: 10
Operator: SG
Inst : TO41
Multiplr: 1.00
Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

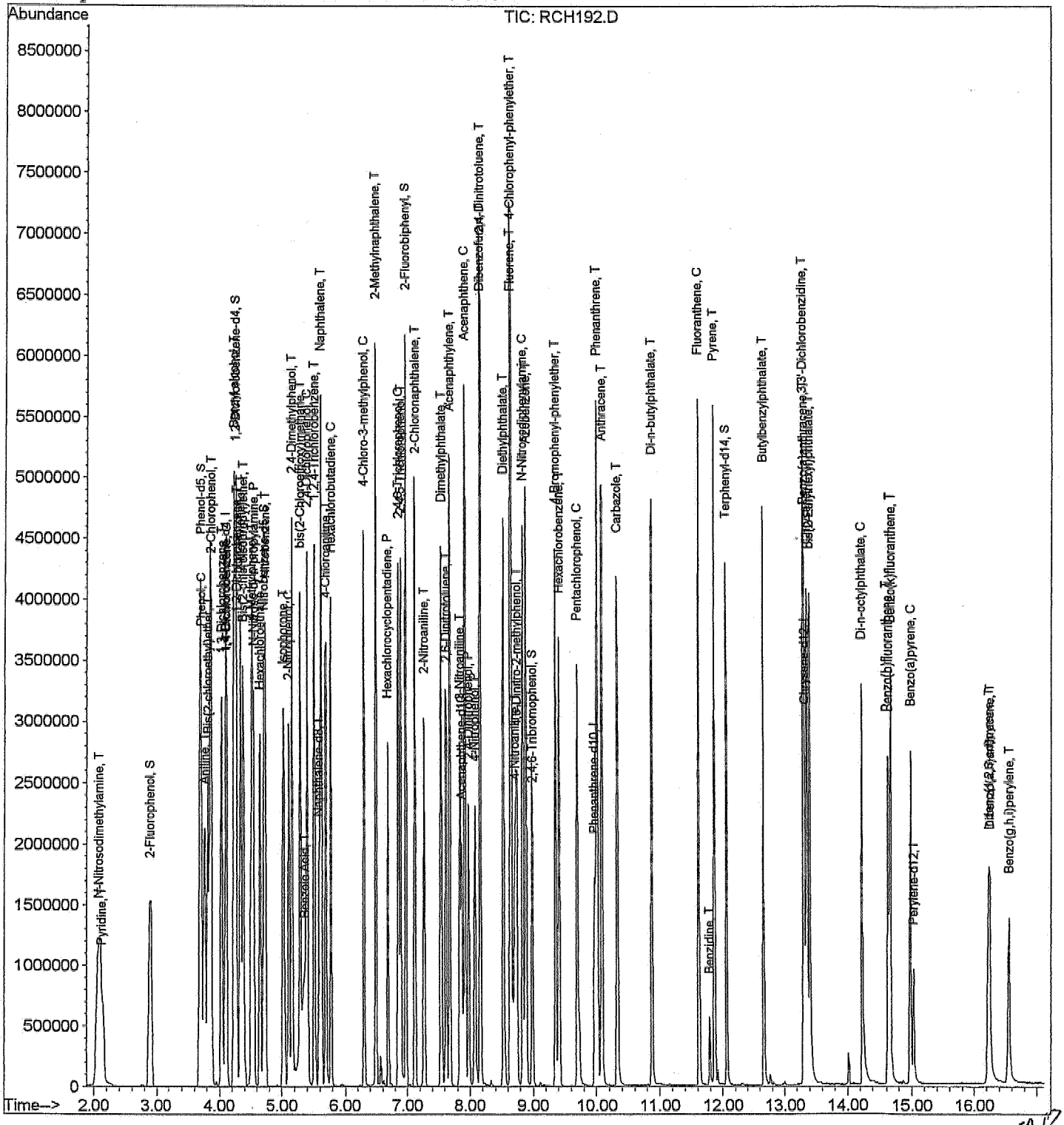
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63)	Phenanthrene	10.01	178	3640183	112.45	ng	99
64)	Anthracene	10.10	178	3490966	112.45	ng	98
65)	Carbazole	10.33	167	3151649	110.42	ng	98
66)	Di-n-butylphthalate	10.88	149	3928098	109.20	ng	99
67)	Fluoranthene	11.62	202	3127413	112.36	ng	99
69)	Benzidine	11.79	184	299124	110.94	ng	95
70)	Pyrene	11.87	202	3173462	118.49	ng	98
72)	Butylbenzylphthalate	12.67	149	1307295	119.17	ng	89
73)	3,3'-Dichlorobenzidine	13.31	252	771849	125.49	ng	96
74)	Benzo(a)anthracene	13.32	228	2220575	119.68	ng	97
75)	Chrysene	13.37	228	2283026	114.98	ng	97
76)	bis(2-Ethylhexyl)phthalate	13.42	149	1581211	119.09	ng	96
78)	Di-n-octylphthalate	14.24	149	2315179	125.11	ng	97
79)	Benzo(b)fluoranthene	14.62	252	1828310	103.81	ng	99
80)	Benzo(k)fluoranthene	14.66	252	1752689	132.22	ng	97
81)	Benzo(a)pyrene	14.97	252	1607847	113.56	ng	99
82)	Indeno(1,2,3-cd)pyrene	16.23	276	1378081	114.01	ng	94
83)	Dibenzo(a,h)anthracene	16.25	278	1119821	112.63	ng	97
84)	Benzo(g,h,i)perylene	16.55	276	1098877	111.49	ng	98

(#) = qualifier out of range (m) = manual integration

3088

Data File : C:\HPCHEM\1\DATA\06C16\RCH192.D Vial: 10
Acq On : 16 Mar 2006 14:24 Operator: SG
Sample : SV41C16 8 Inst : TO41
Misc : 120 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:06 2006 Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration



3089

Data File : C:\HPCHEM\1\DATA\06C16\RCH193.D Vial: 11
Acq On : 16 Mar 2006 14:49 Operator: SG
Sample : SV41C16 9 Inst : TO41
Misc : 160 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:07 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.10	152	389813	40.00	ng	0.00
20) Naphthalene-d8	5.60	136	1375876	40.00	ng	0.00
35) Acenaphthene-d10	7.88	164	718678	40.00	ng	0.00
59) Phenanthrene-d10	9.98	188	1060283	40.00	ng	0.00
68) Chrysene-d12	13.33	240	650638	40.00	ng	0.00
77) Perylene-d12	15.03	264	363343	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.92	112	1886939	156.82	ng	0.00
Spiked Amount 150.000			Recovery =	104.55%		
8) Phenol-d5	3.71	99	2294714	149.45	ng	0.02
Spiked Amount 150.000			Recovery =	99.63%		
13) 1,2-Dichlorobenzene-d4	4.27	152	1242126	136.52	ng	0.00
Spiked Amount 100.000			Recovery =	136.52%		
21) Nitrobenzene-d5	4.73	82	2194041	153.31	ng	0.02
Spiked Amount 100.000			Recovery =	153.31%		
39) 2-Fluorobiphenyl	6.98	172	3505510	136.88	ng	0.00
Spiked Amount 100.000			Recovery =	136.88%		
58) 2,4,6-Tribromophenol	8.99	330	617850	158.47	ng	0.02
Spiked Amount 150.000			Recovery =	105.65%		
71) Terphenyl-d14	12.07	244	2307834	162.72	ng	0.00
Spiked Amount 100.000			Recovery =	162.72%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.08	74	1238245	161.77	ng	90
3) Pyridine	2.14	79	2119168	160.38	ng	100
5) Phenol	3.73	94	2467056	149.53	ng	94
6) Aniline	3.79	93	2463501	150.98	ng	97
7) Bis(2-chloroethyl)ether	3.83	93	1790717	142.91	ng	93
9) 2-Chlorophenol	3.89	128	1935199	148.57	ng	99
10) 1,3-Dichlorobenzene	4.04	146	2116843	151.06	ng	99
11) 1,4-Dichlorobenzene	4.12	146	2096795	148.71	ng	97
12) Benzyl alcohol	4.24	108	1279269	149.33	ng	99
14) 1,2-Dichlorobenzene	4.29	146	1864375	137.96	ng	98
15) 2-Methylphenol	4.36	107	1598356	154.33	ng	98
16) Bis(2-chloroisopropyl)ethe	4.40	45	2996075	148.07	ng	96
17) 4-Methylphenol	4.55	107	2474962	156.39	ng	98
18) N-Nitroso-di-n-propylamine	4.57	70	1513959	151.51	ng	92

(#) = qualifier out of range (m) = manual integration

3090

Data File : C:\HPCHEM\1\DATA\06C16\RCH193.D Vial: 11
Acq On : 16 Mar 2006 14:49 Operator: SG
Sample : SV41C16 9 Inst : TO41
Misc : 160 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:07 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
19)	Hexachloroethane	4.66	117	848685	147.55	ng	84
22)	Nitrobenzene	4.75	77	2088217	148.67	ng	98
23)	Isophorone	5.04	82	3682255	152.01	ng	100
24)	2-Nitrophenol	5.12	139	1225362	156.72	ng	99
25)	2,4-Dimethylphenol	5.18	122	1732447	148.43	ng	99
26)	bis(2-Chloroethoxy)methane	5.31	93	2230296	139.60	ng	99
27)	Benzoic Acid	5.40	122	1360633	175.93	ng	99
28)	2,4-Dichlorophenol	5.42	162	1737952	145.85	ng	98
29)	1,2,4-Trichlorobenzene	5.52	180	1814281	143.50	ng	97
30)	Naphthalene	5.63	128	4914828	138.48	ng	100
31)	4-Chloroaniline	5.70	127	2313492	143.01	ng	98
32)	Hexachlorobutadiene	5.78	225	1010394	142.92	ng	98
33)	4-Chloro-3-methylphenol	6.31	107	1825739	147.10	ng	98
34)	2-Methylnaphthalene	6.49	142	3298938	137.75	ng	99
36)	Hexachlorocyclopentadiene	6.69	237	784964	171.19	ng	94
37)	2,4,6-Trichlorophenol	6.86	196	1303513	153.41	ng	99
38)	2,4,5-Trichlorophenol	6.90	196	1299852	149.55	ng	98
40)	2-Chloronaphthalene	7.13	162	3183252	144.33	ng	98
41)	2-Nitroaniline	7.28	65	1383874	169.76	ng	97
42)	Dimethylphthalate	7.55	163	3884330	147.24	ng	98
43)	2,6-Dinitrotoluene	7.63	165	1024072	164.37	ng	95
44)	Acenaphthylene	7.69	152	4659738	144.16	ng	98
45)	3-Nitroaniline	7.86	138	1089339	161.66	ng	94
46)	Acenaphthene	7.93	154	2854693	140.79	ng	96
47)	2,4-Dinitrophenol	7.99	184	707305	195.20	ng	92
48)	4-Nitrophenol	8.09	109	578676	171.83	ng	95
49)	Dibenzofuran	8.17	168	4115815	138.58	ng	99
50)	2,4-Dinitrotoluene	8.18	165	1220193	148.14	ng	80
51)	Diethylphthalate	8.55	149	3567850	145.29	ng	99
52)	Fluorene	8.65	166	3236451	138.83	ng	98
53)	4-Chlorophenyl-phenylether	8.67	204	1590511	135.44	ng	94
54)	4-Nitroaniline	8.74	138	1018120	149.46	ng	95
55)	4,6-Dinitro-2-methylphenol	8.76	198	818769	165.98	ng	82
56)	N-Nitrosodiphenylamine	8.85	169	2354087	144.06	ng	97
57)	Azobenzene	8.89	77	3883082	156.50	ng	96
60)	4-Bromophenyl-phenylether	9.37	248	1015410	145.84	ng	95
61)	Hexachlorobenzene	9.42	284	1125593	147.65	ng	91
62)	Pentachlorophenol	9.71	266	867885	165.53	ng	98

(#) = qualifier out of range (m) = manual integration

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH193.D Vial: 11
Acq On : 16 Mar 2006 14:49 Operator: SG
Sample : SV41C16 9 Inst : TO41
Misc : 160 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:07 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

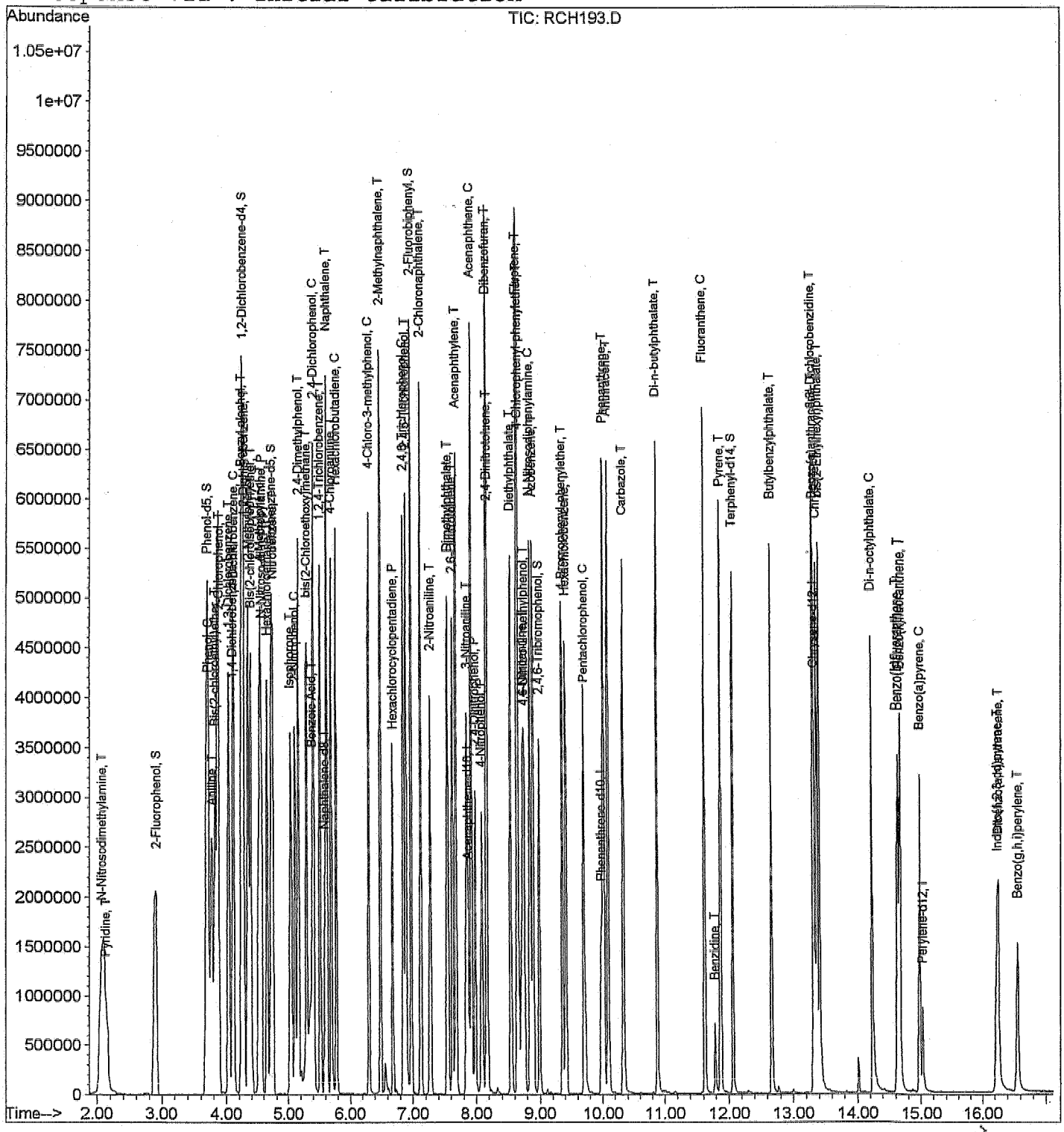
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) Phenanthrene	10.02	178	4584512	143.59	ng	99
64) Anthracene	10.10	178	4384995	143.21	ng	97
65) Carbazole	10.34	167	3973455	141.14	ng	97
66) Di-n-butylphthalate	10.89	149	5011692	141.25	ng	99
67) Fluoranthene	11.62	202	3866037	140.82	ng	99
69) Benzidine	11.79	184	357834	147.66	ng	96
70) Pyrene	11.88	202	3980281	165.35	ng	98
72) Butylbenzylphthalate	12.67	149	1677271	170.11	ng	89
73) 3,3'-Dichlorobenzidine	13.31	252	971560	175.75	ng	94
74) Benzo(a)anthracene	13.32	228	2646215	158.69	ng	97
75) Chrysene	13.38	228	2805049	157.18	ng	97
76) bis(2-Ethylhexyl)phthalate	13.42	149	1889484	158.34	ng	91
78) Di-n-octylphthalate	14.24	149	2933033	178.36	ng	92
79) Benzo(b)fluoranthene	14.63	252	2566751	164.01	ng	99
80) Benzo(k)fluoranthene	14.66	252	1746976	148.30	ng	97
81) Benzo(a)pyrene	14.97	252	1912643	152.01	ng	96
82) Indeno(1,2,3-cd)pyrene	16.23	276	1660091	154.55	ng	96
83) Dibenzo(a,h)anthracene	16.25	278	1320900	149.51	ng	95
84) Benzo(g,h,i)perylene	16.55	276	1279048	146.04	ng	97

(#) = qualifier out of range (m) = manual integration

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH193.D Vial: 11
Acq On : 16 Mar 2006 14:49 Operator: SG
Sample : SV41C16 9 Inst : TO41
Misc : 160 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:07 2006 Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 16:57:10 2006
Response via : Initial Calibration



RCH193.D SV41C16.M Fri Mar 17 17:08:27 2006 TO41 Page 4

3093

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCH184
Instrument ID: T-041

Project: UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C204
DFTPP Injection Date: 03/16/06
DFTPP Injection Time: 11:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.05
68	Less than 2% of mass 69	0.00(0.0)1
69	Relative abundance of mass 198	65.10
70	Less than 2.0% of mass 69	0.00(0.0)1
127	40.0 - 60.0% of mass 198	44.47
197	Less than 1.0% of mass 198	0.28
198	Base Peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	7.27
275	10.0 - 30.0% of mass 198	21.14
365	Greater than 1.00% of mass 198	1.69
441	Present, but less than mass 443	9.45
442	Greater than 40.0% of mass 198	58.01
443	17.0 - 23.0% of mass 442	12.17(21.0)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
1	SSTD005	SV41C16B1	RCH204	03/16/06	19:33
2	SSTD010	SV41C16B2	RCH205	03/16/06	19:58
3	SSTD040	SV41C16B3	RCH206	03/16/06	20:23
4	SSTD050	SV41C16B4	RCH207	03/16/06	20:48
5	SSTD100	SV41C16B5	RCH208	03/16/06	21:13
6	SSTD120	SV41C16B6	RCH209	03/16/06	21:38
7	SSTD160	SV41C16B7	RCH210	03/16/06	22:02
8	SSTD050	ISV41C16B1	RCH211	03/16/06	22:27

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :TO41
Beginning DateTime :03/16/06 19:33
Spike Units :PPM
IC File :RCH207

Column Spec :ZB-5MS ID :0.18MM
Ending DateTime :03/16/06 22:02
HPChem Method :SV41C16B

		5	10	40	50	100	120	160			
		19:33	19:58	20:23	20:48	21:13	21:38	22:02			
IDX	Parameters	RCH204	RCH205	RCH206	RCH207	RCH208	RCH209	RCH210	Av_RRF	%_RSD	Av_Rt_M
1	Phenanthrene-d10	1	1	1	1	1	1	1	1	0	9.9666
2	Octachlorostyrene	0.066	0.071	0.078	0.082	0.080	0.080	0.079	0.077	7.94	11.4097

Ave_%RSD : 7.9 Max_%RSD : 7.9

3/22/06

Quantitation Limit from Lowest Initial Calibration Concentration

Instrument ID :T041 Column Spec :ZB-5MS ID :0.18MM

Beginning DateTime :03/16/06 19:33 Ending DateTime :03/16/06 22:02

IC File :RCH207 HPChem Method :SV41C16B

WATER Init. Vol. (ml) : 1000 Final Vol. (ml) : 1

SOIL Init. Weight (gm) : 30 Final Vol. (ml) : 1

IDX	Parameters	ON_COL MG/L	WATER UG/L	SOIL MG/KG	R_FILE
1	Phenanthrene-d10	IntSTD	IntSTD	IntSTD	IntSTD
2	Octachlorostyrene	5	5	.1667	RCH204

3/21/06

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCH207
Instrument ID:T-041

Project:ICAL
SDG No.:
Date Analyzed: 03/16/06
Time Analyzed: 20:48

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1128003	9.97	0	0.00	0	0.00
UPPER LIMIT	2256006	10.47	0	0.50	0	0.50
LOWER LIMIT	564002	9.47	0	-0.50	0	-0.50
SAMPLE ID						
1 SV41C16B1	1161917	9.96	0	0.00	0	0.00
2 SV41C16B2	1144807	9.97	0	0.00	0	0.00
3 SV41C16B3	1091355	9.97	0	0.00	0	0.00
4 SV41C16B5	1057560	9.96	0	0.00	0	0.00
5 SV41C16B6	1011566	9.96	0	0.00	0	0.00
6 SV41C16B7	1017894	9.96	0	0.00	0	0.00
7 ISV41C16B1	1053188	9.97	0	0.00	0	0.00

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal satndard 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 used to flag internal standard area values with an asterisk
* Values outside of QC limits.

DLP 3/12/06

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:17:20 2006
Response via : Initial Calibration
Total Cpnds : 2

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Phenanthrene-d10	188	9.97	1.000	A	2	A	B
2	T	Octachlorostyrene	308	11.41	1.144	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

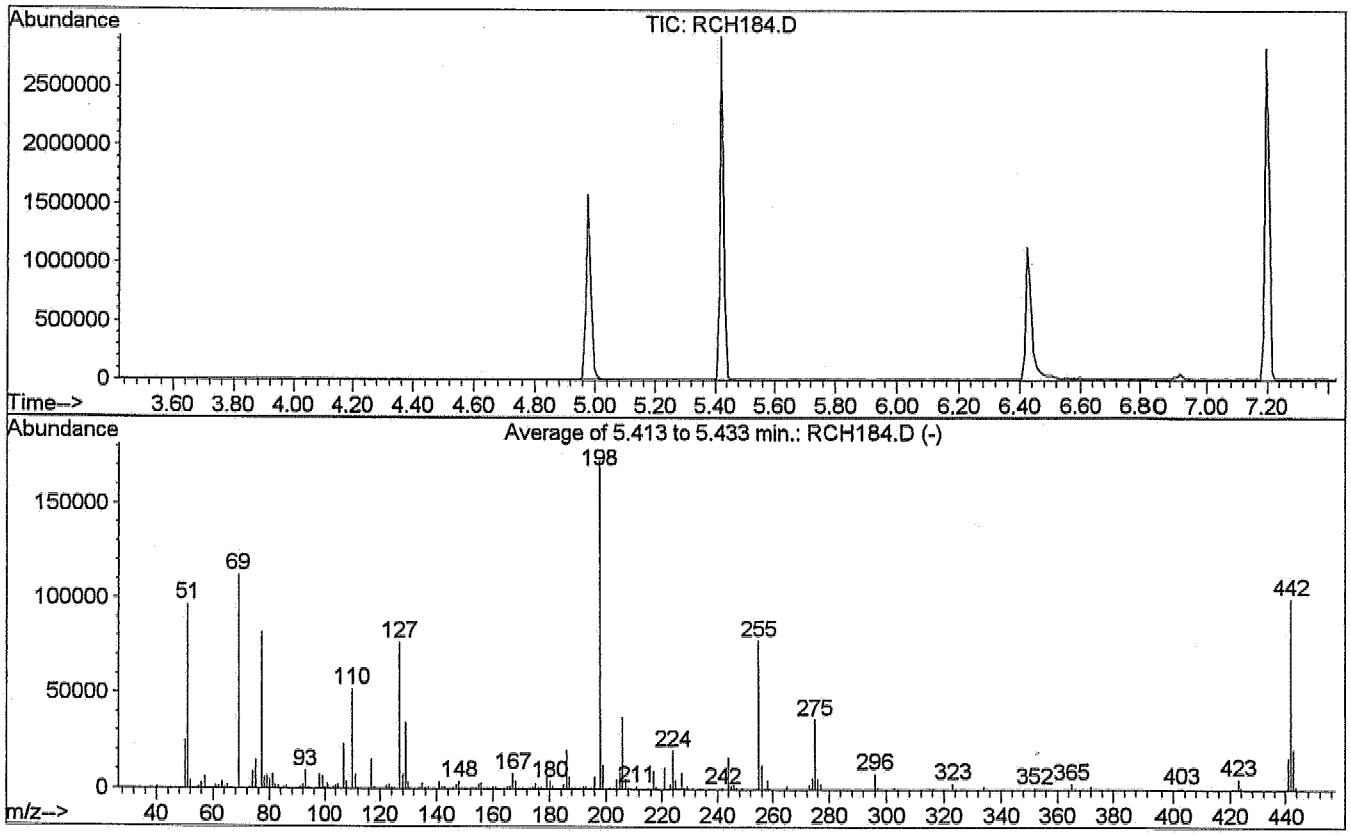
SV41C16B.M Fri Mar 17 18:19:34 2006 TO41

3098

DFTPP

Data File : C:\HPCHEM\1\DATA\06C16\RCH184.D
Acq On : 16 Mar 2006 11:12
Sample : DFT41C1601
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC

Vial: 2
Operator: SG
Inst : TO41
Multiplr: 1.00



AutoFind: Scans 306, 307, 308; Background Corrected with Scan 303

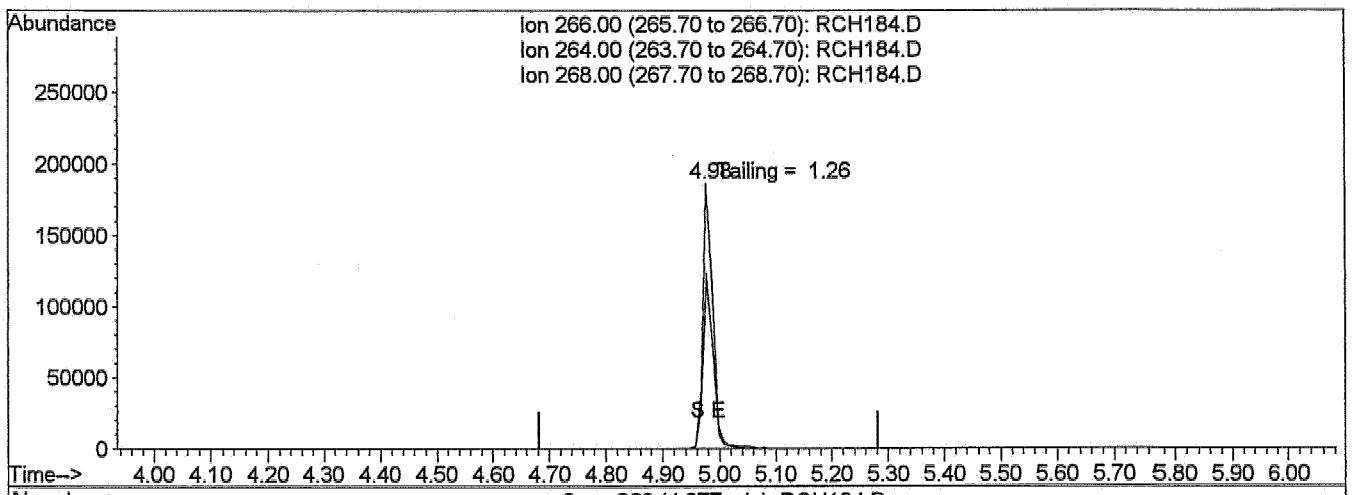
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	56.0	96779	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	65.1	112411	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	44.5	76787	PASS
197	198	0.00	1	0.3	484	PASS
198	198	100	100	100.0	172667	PASS
199	198	5	9	7.3	12549	PASS
275	198	10	30	21.1	36504	PASS
365	198	1	100	1.7	2922	PASS
441	443	0.01	100	77.7	16324	PASS
442	198	40	100	58.0	100168	PASS
443	442	17	23	21.0	21013	PASS

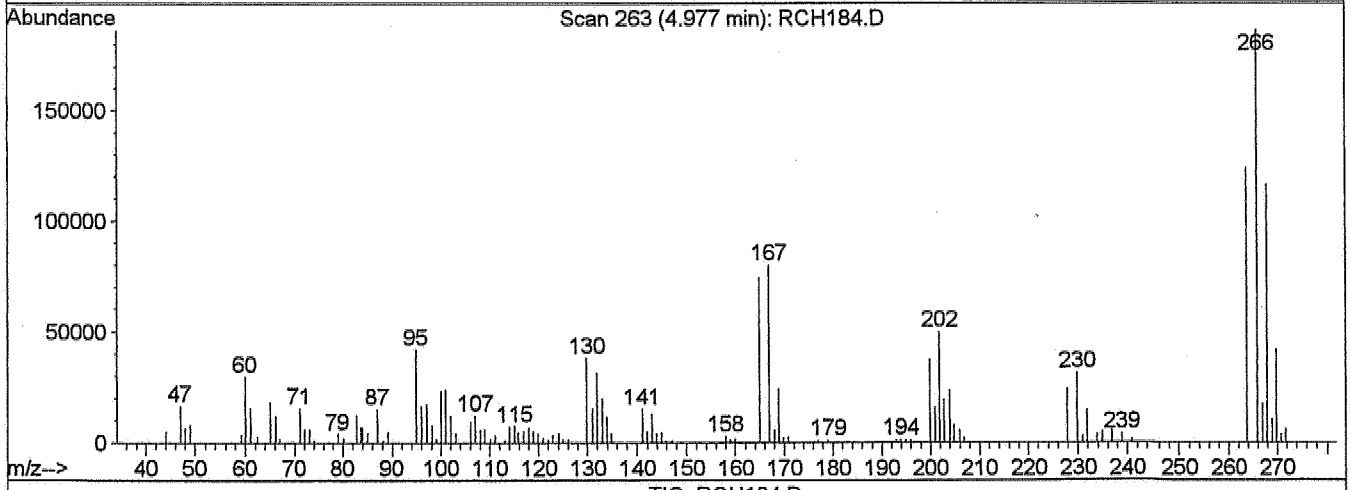
KWP 3/17/06

RCH184.D DFTPP.M Fri Mar 17 17:10:14 2006 TO41

Data File : C:\HPCHEM\1\DATA\06C16\RCH184.D Vial: 2
Acq On : 16 Mar 2006 11:12 Operator: SG
Sample : DFT41C1601 Inst : TO41
Misc : Multiplr: 1.00
Quant Time: Mar 16 11:20 2006 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC
Last Update : Thu Nov 03 17:25:00 2005
Response via : Single Level Calibration





TIC: RCH184.D

(1) Pentachlorophenol

4.98min 56.34ng

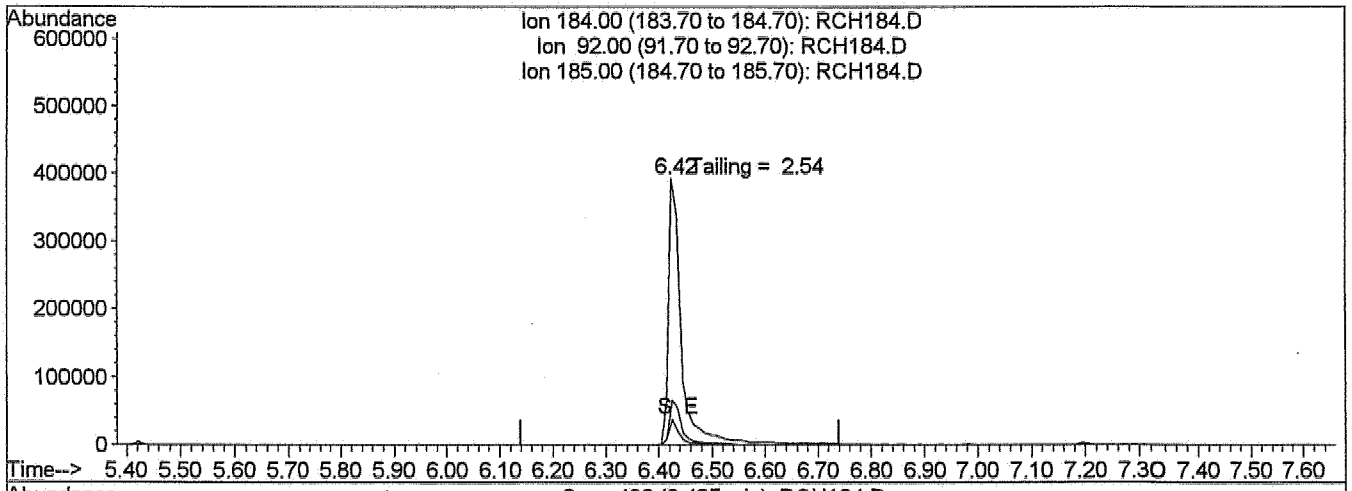
response 224901

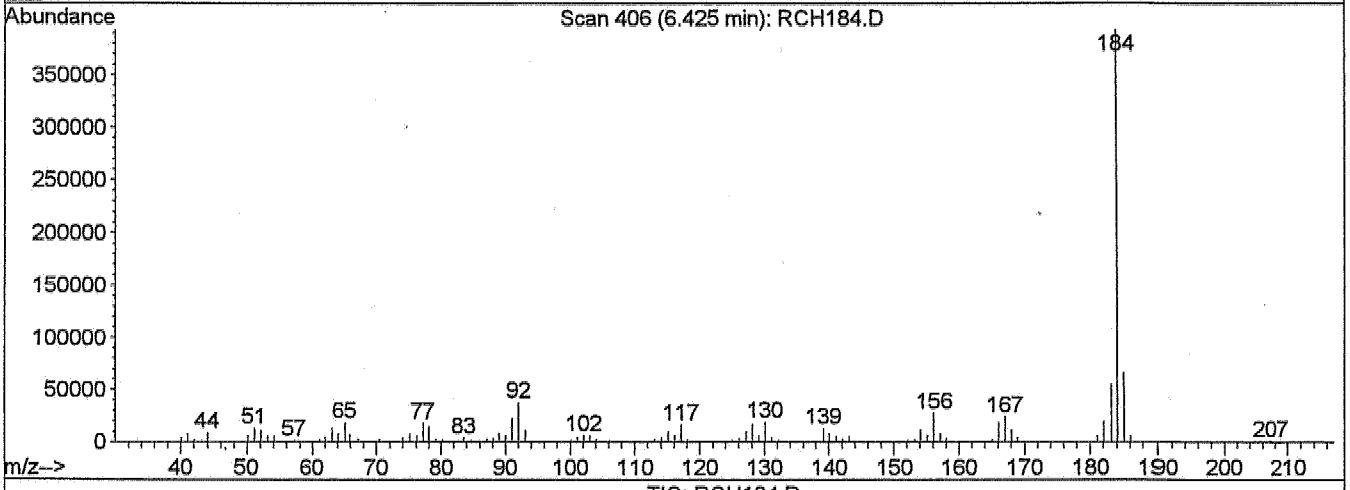
Ion	Exp%	Act%
266.00	100	100
264.00	62.00	66.32
268.00	62.60	62.30
0.00	0.00	0.00

Cu P Volatile

Data File : C:\HPCHEM\1\DATA\06C16\RCH184.D Vial: 2
Acq On : 16 Mar 2006 11:12 Operator: SG
Sample : DFT41C1601 Inst : TO41
Misc : Multiplr: 1.00
Quant Time: Mar 16 11:20 2006 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC
Last Update : Thu Nov 03 17:25:00 2005
Response via : Single Level Calibration





TIC: RCH184.D

(3) Benzidine

6.42min 36.74ng

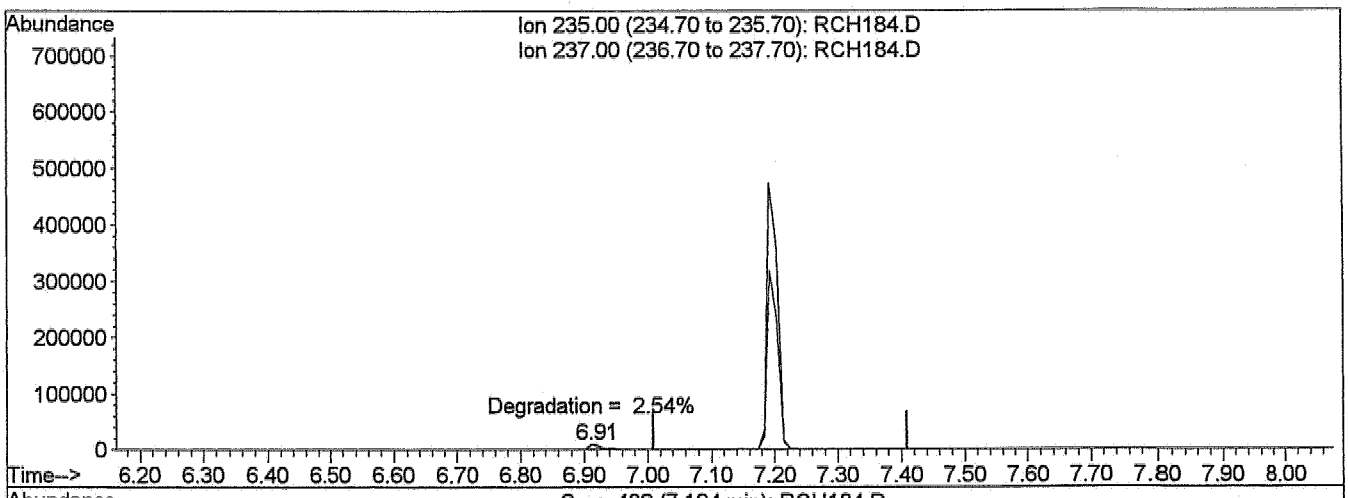
response 675071

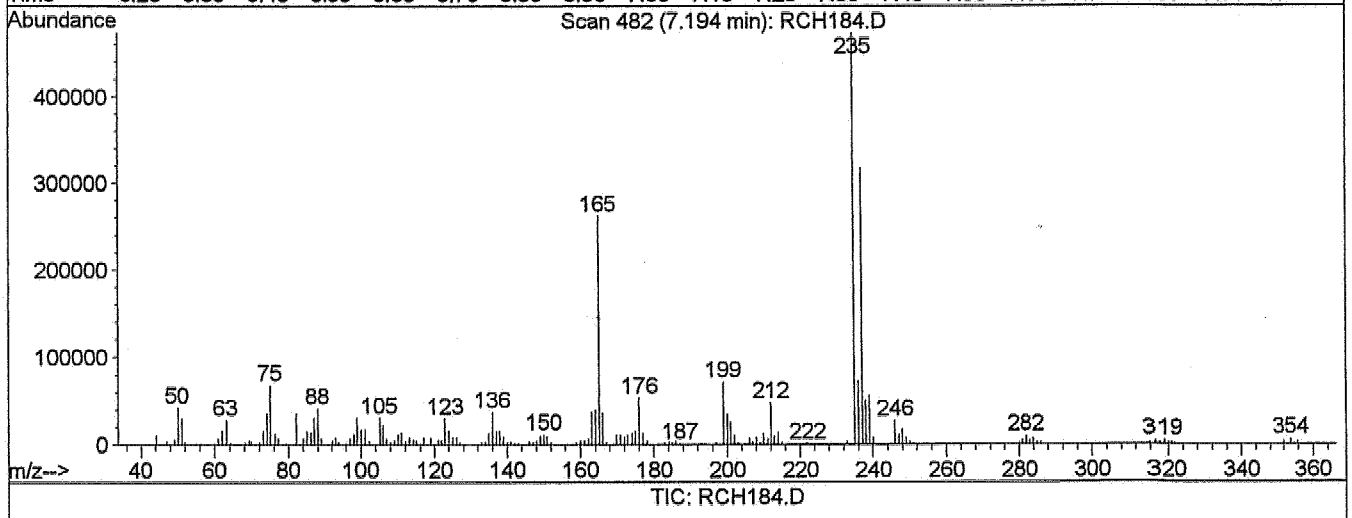
Ion	Exp%	Act%
184.00	100	100
92.00	7.10	9.68
185.00	16.70	16.89
0.00	0.00	0.00

RCH184.D DFTPP.M Fri Mar 17 17:10:34 2006 TO41

Data File : C:\HPCHEM\1\DATA\06C16\RCH184.D Vial: 2
Acq On : 16 Mar 2006 11:12 Operator: SG
Sample : DFT41C1601 Inst : TO41
Misc : Multiplr: 1.00
Quant Time: Mar 16 11:20 2006 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC
Last Update : Thu Nov 03 17:25:00 2005
Response via : Single Level Calibration





TIC: RCH184.D

(6) DDT

7.19min 45.42ng

response 541439

Ion	Exp%	Act%
235.00	100	100
237.00	65.20	67.13
0.00	0.00	0.00
0.00	0.00	0.00

RCH184.D DFTPP.M Fri Mar 17 17:10:44 2006 TO41

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH204.D Vial: 22
Acq On : 16 Mar 2006 19:33 Operator: SG
Sample : SV41C16B 1 Inst : TO41
Misc : 5 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:10 2006 Quant Results File: SV41C16B.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

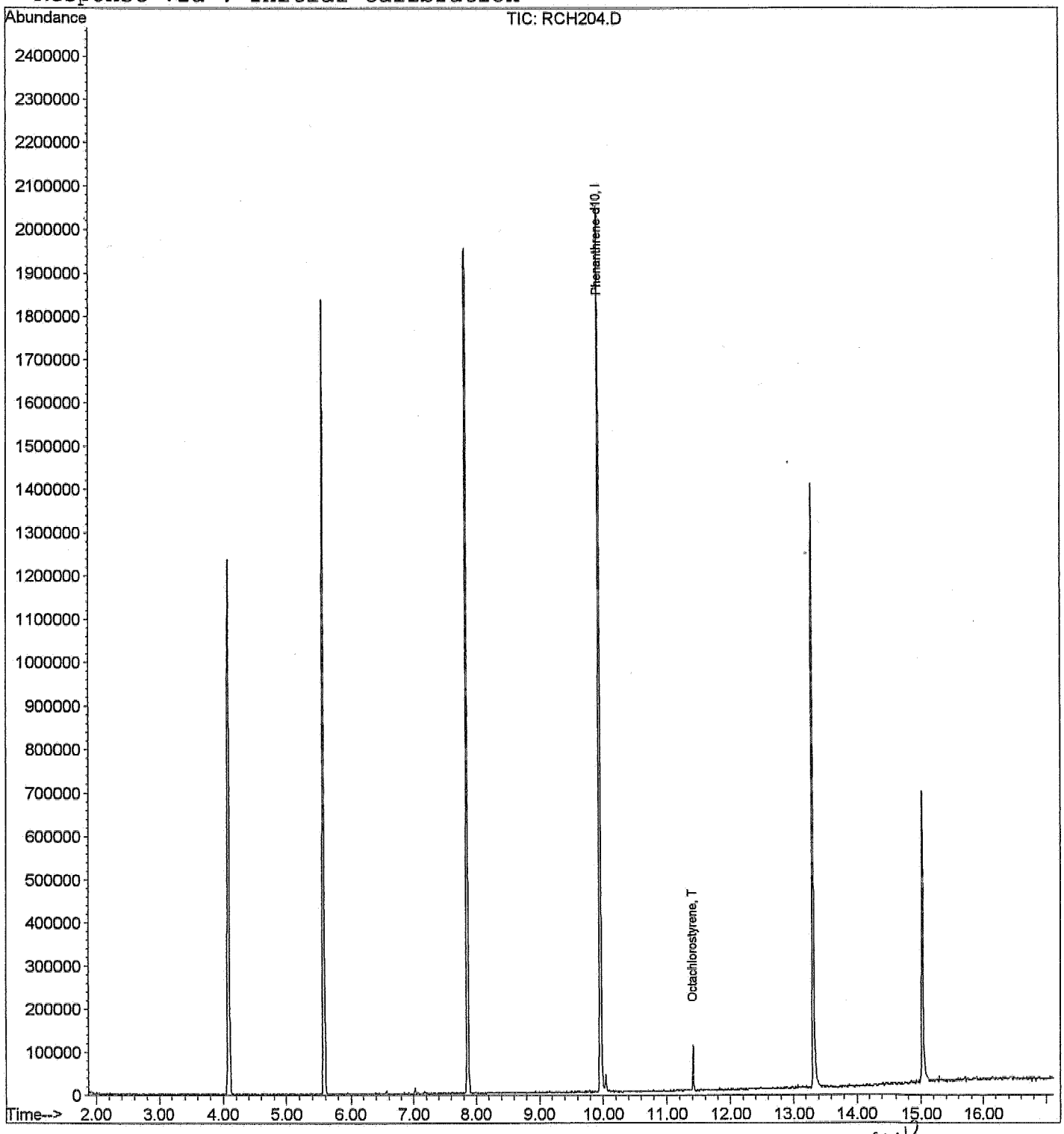
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.96	188	1161917	40.00	ng	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Octachlorostyrene	11.41	308	9551	3.99	ng	88

EMP 3/22/06

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\06C16\RCH204.D Vial: 22
Acq On : 16 Mar 2006 19:33 Operator: SG
Sample : SV41C16B 1 Inst : TO41
Misc : 5 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:10 2006 Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration



3/21/06

3104

Data File : C:\HPCHEM\1\DATA\06C16\RCH205.D Vial: 23
Acq On : 16 Mar 2006 19:58 Operator: SG
Sample : SV41C16B 2 Inst : TO41
Misc : 10 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:10 2006 Quant Results File: SV41C16B.RES

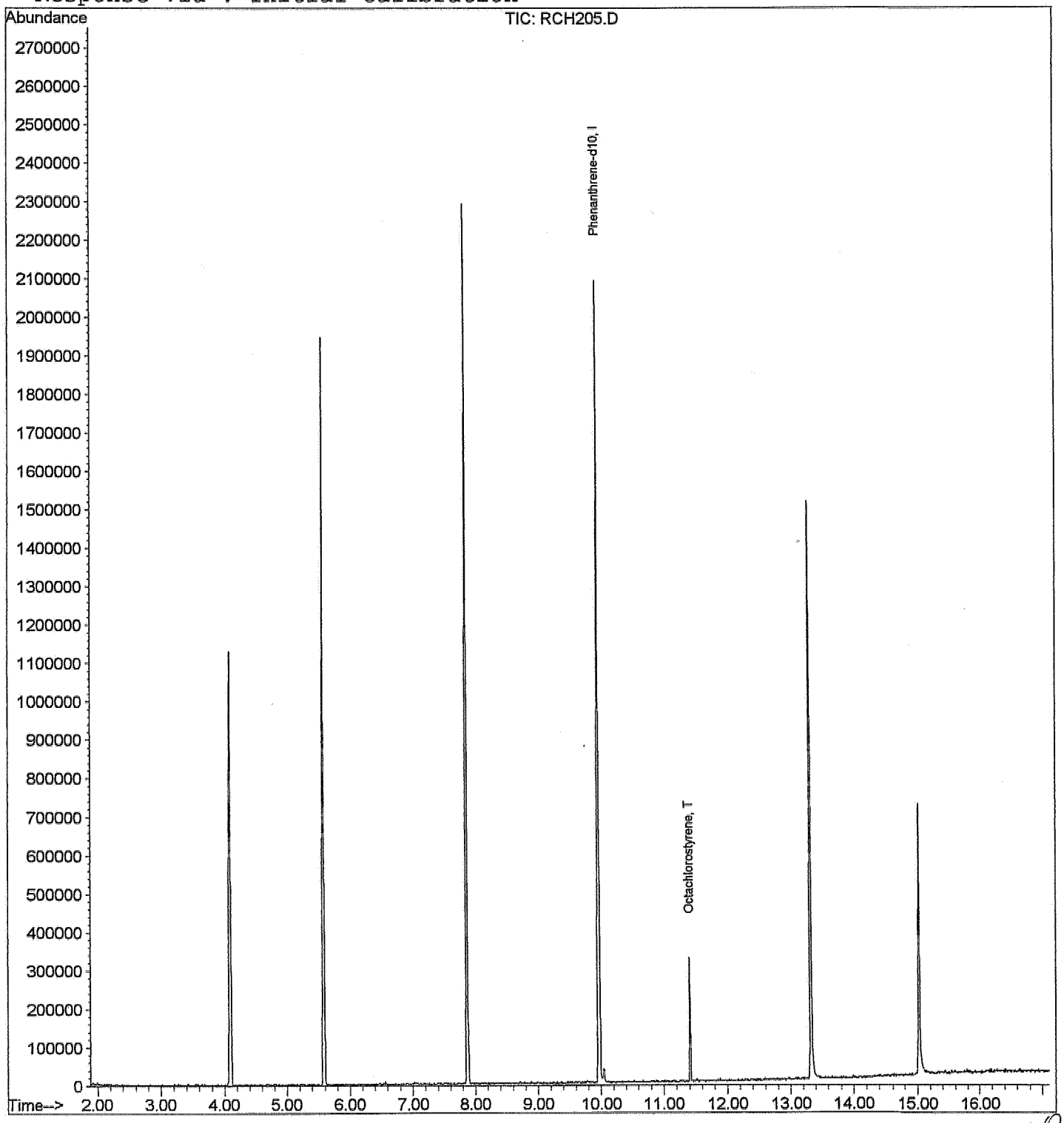
Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.97	188	1144807	40.00	ng	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Octachlorostyrene	11.41	308	20192	8.56	ng	80

(#) = qualifier out of range (m) = manual integration
RCH205.D SV41C16B.M Fri Mar 17 18:11:04 2006 TO41 Page 1

Data File : C:\HPCHEM\1\DATA\06C16\RCH205.D Vial: 23
Acq On : 16 Mar 2006 19:58 Operator: SG
Sample : SV41C16B 2 Inst : TO41
Misc : 10 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:10 2006 Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration



RCH205.D SV41C16B.M Fri Mar 17 18:11:04 2006 TO41

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH206.D Vial: 24
Acq On : 16 Mar 2006 20:23 Operator: SG
Sample : SV41C16B 3 Inst : TO41
Misc : 40 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:11 2006 Quant Results File: SV41C16B.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

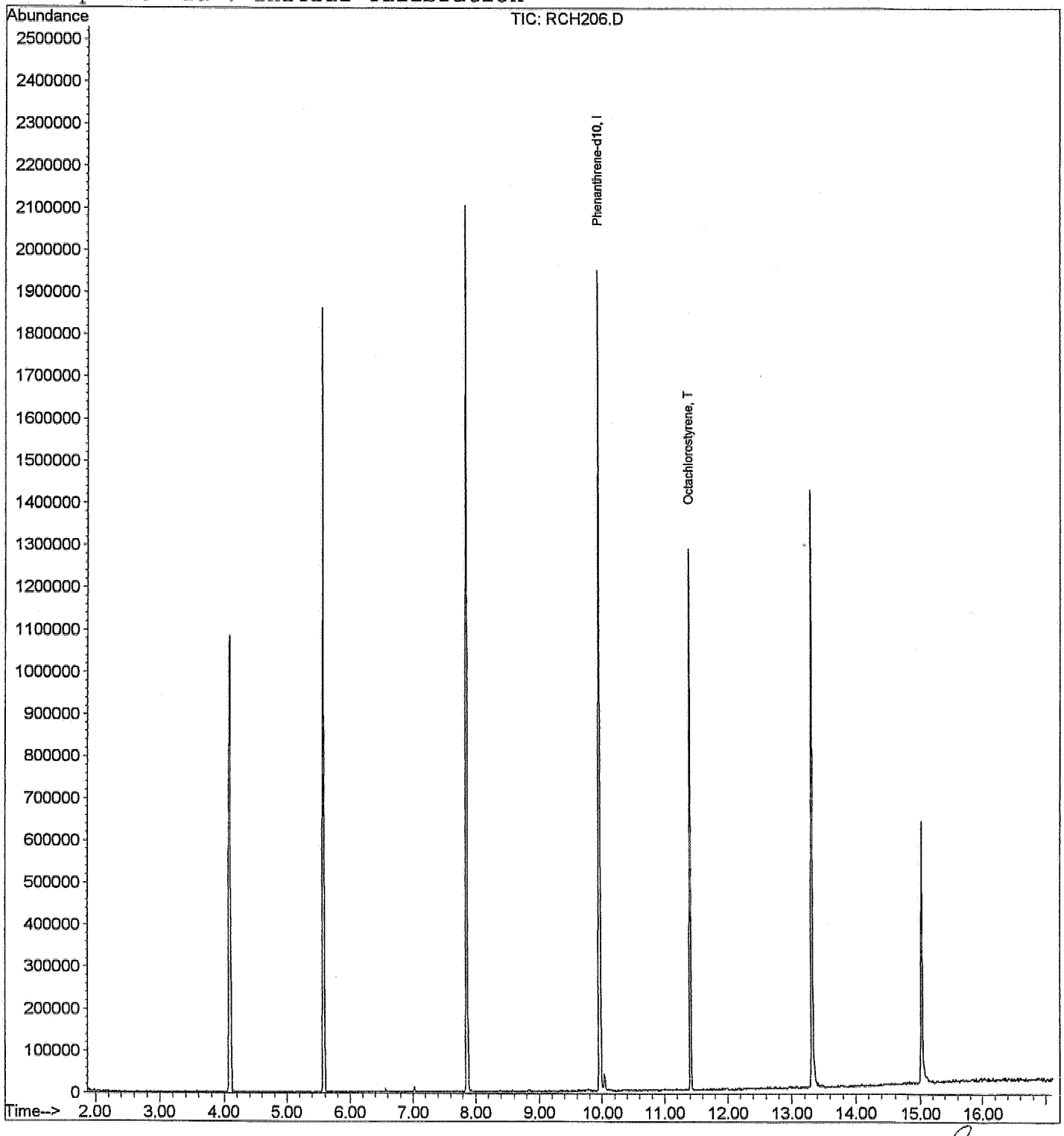
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.97	188	1091355	40.00	ng	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Octachlorostyrene	11.41	308	85367	37.95	ng	90

3/21/06

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\06C16\RCH206.D Vial: 24
Acq On : 16 Mar 2006 20:23 Operator: SG
Sample : SV41C16B 3 Inst : TO41
Misc : 40 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:11 2006 Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration



3108

Data File : C:\HPCHEM\1\DATA\06C16\RCH207.D Vial: 25
Acq On : 16 Mar 2006 20:48 Operator: SG
Sample : SV41C16B 4 Inst : TO41
Misc : 50 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:11 2006 Quant Results File: SV41C16B.RES

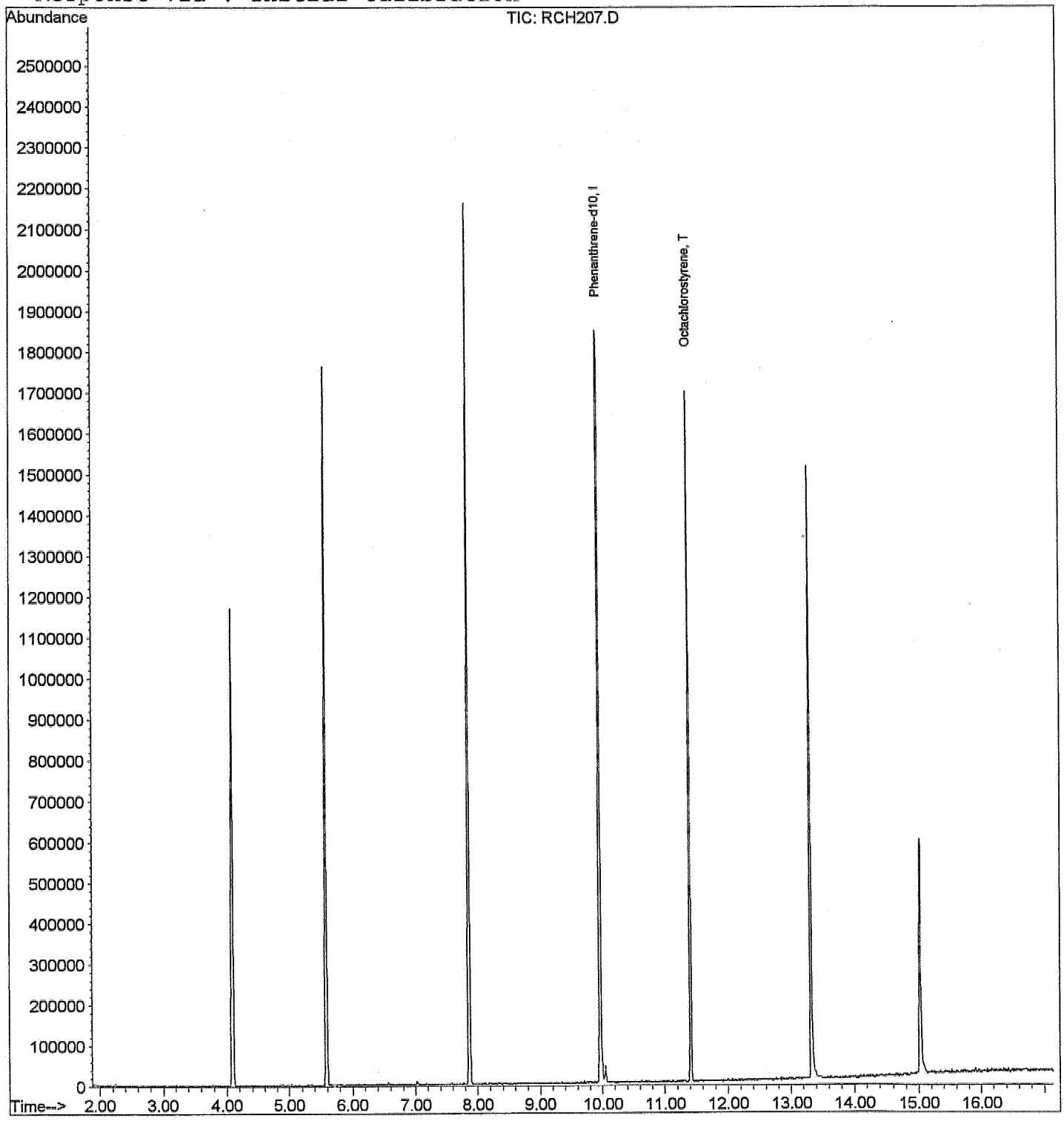
Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.97	188	1128003	40.00	ng	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Octachlorostyrene	11.41	308	116262	50.00	ng	100

(#) = qualifier out of range (m) = manual integration
RCH207.D SV41C16B.M Fri Mar 17 18:11:39 2006 TO41 3/21/06 Page 1

Data File : C:\HPCHEM\1\DATA\06C16\RCH207.D Vial: 25
Acq On : 16 Mar 2006 20:48 Operator: SG
Sample : SV41C16B 4 Inst : TO41
Misc : 50 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:11 2006 Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration



VKH 3/21/06

3110

Data File : C:\HPCHEM\1\DATA\06C16\RCH208.D Vial: 26
Acq On : 16 Mar 2006 21:13 Operator: SG
Sample : SV41C16B 5 Inst : TO41
Misc : 100 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:11 2006 Quant Results File: SV41C16B.RES

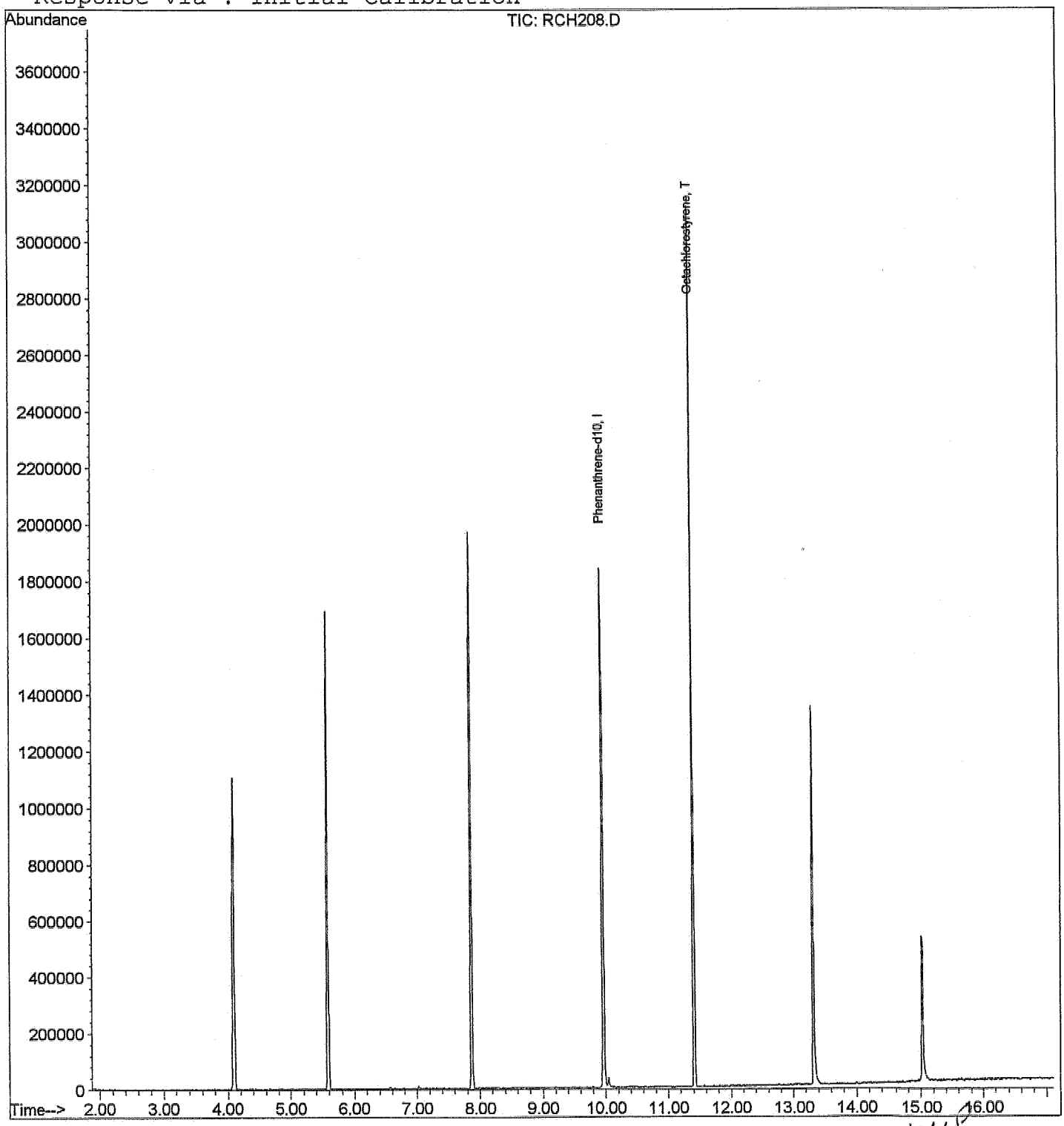
Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.96	188	1057560	40.00	ng	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) Octachlorostyrene	11.41	308	211913	97.21	ng	95

(#) = qualifier out of range (m) = manual integration
RCH208.D SV41C16B.M Fri Mar 17 18:12:02 2006 TO41 Page 1

Data File : C:\HPCHEM\1\DATA\06C16\RCH208.D Vial: 26
Acq On : 16 Mar 2006 21:13 Operator: SG
Sample : SV41C16B 5 Inst : TO41
Misc : 100 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:11 2006 Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration



3112

Data File : C:\HPCHEM\1\DATA\06C16\RCH209.D Vial: 27
Acq On : 16 Mar 2006 21:38 Operator: SG
Sample : SV41C16B 6 Inst : TO41
Misc : 120 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:12 2006 Quant Results File: SV41C16B.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

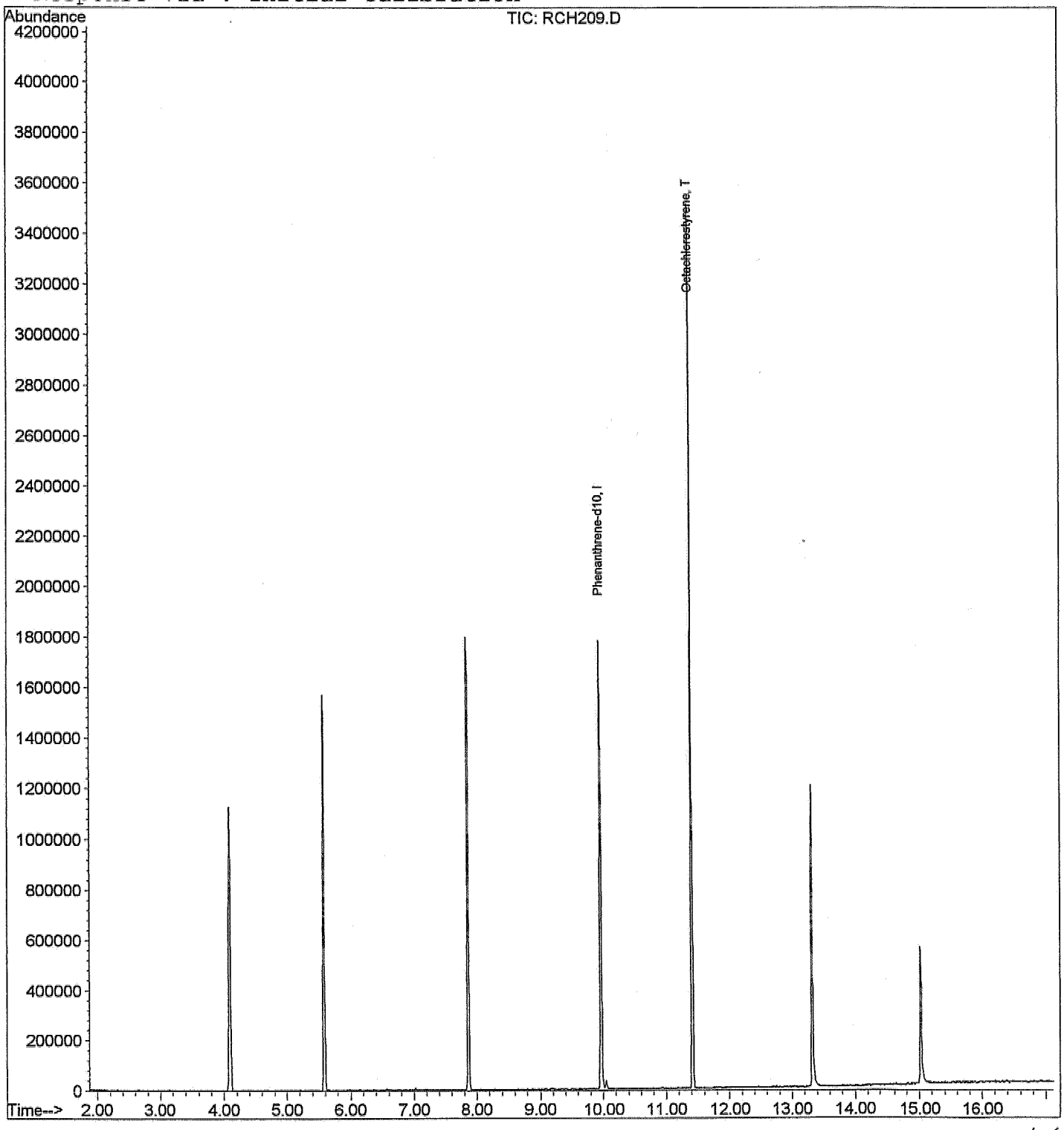
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.96	188	1011566	40.00	ng	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Octachlorostyrene	11.41	308	242470	116.28	ng	95

(#) = qualifier out of range (m) = manual integration
RCH209.D SV41C16B.M Fri Mar 17 18:12:20 2006 TO41 Page 1

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH209.D Vial: 27
Acq On : 16 Mar 2006 21:38 Operator: SG
Sample : SV41C16B 6 Inst : TO41
Misc : 120 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:12 2006 Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration



3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH210.D Vial: 28
Acq On : 16 Mar 2006 22:02 Operator: SG
Sample : SV41C16B 7 Inst : TO41
Misc : 160 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:12 2006 Quant Results File: SV41C16B.RES

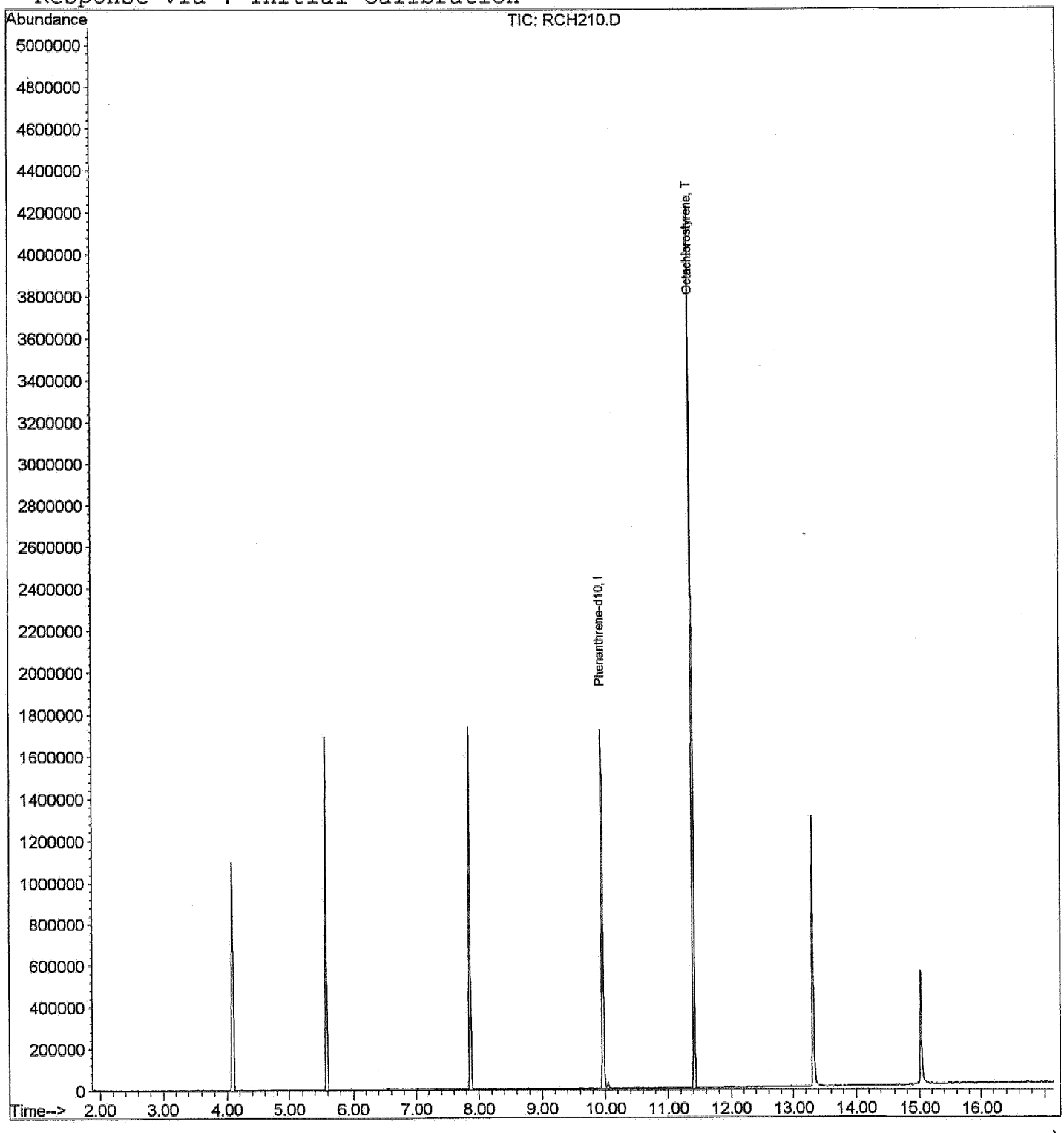
Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.96	188	1017894	40.00	ng	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) Octachlorostyrene	11.41	308	322935	153.91	ng	88

(#) = qualifier out of range (m) = manual integration
RCH210.D SV41C16B.M Fri Mar 17 18:12:39 2006 TO41 Page 1

Data File : C:\HPCHEM\1\DATA\06C16\RCH210.D Vial: 28
Acq On : 16 Mar 2006 22:02 Operator: SG
Sample : SV41C16B 7 Inst : TO41
Misc : 160 PPM -OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:12 2006 Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:09:27 2006
Response via : Initial Calibration



3116

SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :TO41
IC_Beginning DateTime :03/16/06 11:29
Spike Amount :50 PPM
CC/CV File :RCH194
IC File :RCH189

Column Spec :ZB-5MS ID :0.18MM
IC_Ending DateTime :03/16/06 14:49
HPChem Method :SV41C16
Date_Time :03/16/06 15 :24

M_IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
1	1,4-Dichlorobenzene-d4	40.000	0	462792	1	1	4.093	4.096	0				
2	N-Nitrosodimethylamine	49.185	-1.6	442262	0.765	0.777	2.089	2.089	5.07				
3	Pyridine	49.839	-0.3	777110	1.343	1.348	2.119	2.114	2.98				
4	2-Fluorophenol												
5	Phenol	48.128	-3.7	916568	1.584	1.646	3.709	3.709	2.57				
6	Aniline	52.053	4.1	1018216	1.760	1.691	3.769	3.769	3.48				
7	Bis(2-chloroethyl)ether	48.931	-2.1	701645	1.213	1.239	3.820	3.820	4.50				
8	Phenol-d5												
9	2-Chlorophenol	49.295	-1.4	758067	1.310	1.329	3.881	3.879	3.76				
10	1,3-Dichlorobenzene	47.508	-5.0	802119	1.387	1.459	4.043	4.036	4.68				
11	1,4-Dichlorobenzene	48.264	-3.5	819419	1.416	1.467	4.114	4.116	6.09				
12	Benzyl alcohol	52.180	4.4	508067	0.878	0.842	4.235	4.234	6.43				
13	1,2-Dichlorobenzene-d4												
14	1,2-Dichlorobenzene	46.920	-6.2	743297	1.285	1.369	4.275	4.278	7.80				
15	2-Methylphenol	49.227	-1.5	605761	1.047	1.064	4.346	4.341	2.94				
16	Bis(2-chloroisopropyl)ether	48.665	-2.7	1141841	1.974	2.028	4.387	4.383	3.35				
17	4-Methylphenol	49.164	-1.7	891024	1.540	1.566	4.518	4.521	4.62				
18	N-Nitroso-di-n-propylamine	48.497	-3.0	552201	0.955	0.984	4.539	4.543	5.21				
19	Hexachloroethane	48.313	-3.4	313230	0.541	0.560	4.660	4.653	4.05				
20	Naphthalene-d8	40.000	0	1621630	1	1	5.591	5.591	0				
21	Nitrobenzene-d5												
22	Nitrobenzene	48.732	-2.5	766120	0.378	0.388	4.731	4.733	4.81				
23	Isophorone	47.885	-4.2	1316341	0.649	0.678	5.024	5.021	2.49				
24	2-Nitrophenol	52.000	4.0	442478	0.218	0.210	5.116	5.109	11.77				
25	2,4-Dimethylphenol	48.805	-2.4	642665	0.317	0.325	5.156	5.158	3.51				
26	bis(2-Chloroethoxy)methane	50.137	0.3	895607	0.442	0.441	5.288	5.289	4.45				
27	Benzoic Acid	49.520	-1.0	458809	0.226	0.186	5.318	5.306	45.92	-0.0386	0.2597		0.9980
28	2,4-Dichlorophenol	49.876	-0.2	668947	0.330	0.331	5.399	5.402	3.05				
29	1,2,4-Trichlorobenzene	47.534	-4.9	687592	0.339	0.357	5.521	5.517	5.44				
30	Naphthalene	47.428	-5.1	1936133	0.955	1.007	5.622	5.620	7.14				
31	4-Chloroaniline	51.614	3.2	925410	0.457	0.442	5.693	5.692	3.67				
32	Hexachlorobutadiene	49.247	-1.5	402581	0.199	0.202	5.774	5.776	6.07				
33	4-Chloro-3-methylphenol	51.539	3.1	700346	0.346	0.335	6.300	6.296	6.03				
34	2-Methylnaphthalene	51.304	2.6	1385348	0.683	0.666	6.492	6.488	5.32				
35	Acenaphthene-d10	40.000	0	906808	1	1	7.869	7.870	0				
36	Hexachlorocyclopentadiene	49.508	-1.0	284966	0.251	0.229	6.685	6.686	21.36	-0.0226	0.2722		0.9990
37	2,4,6-Trichlorophenol	47.026	-5.9	484036	0.427	0.454	6.846	6.849	3.10				
38	2,4,5-Trichlorophenol	52.778	5.6	517108	0.456	0.432	6.887	6.888	9.78				
39	2-Fluorobiphenyl												
40	2-Chloronaphthalene	48.533	-2.9	1298050	1.145	1.180	7.120	7.119	4.57				
41	2-Nitroaniline	50.231	0.5	515009	0.454	0.406	7.261	7.263	22.66	-0.0412	0.4850		0.9995
42	Dimethylphthalate	47.729	-4.5	1518912	1.340	1.404	7.535	7.535	3.49				
43	2,6-Dinitrotoluene	49.690	-0.6	377705	0.333	0.301	7.616	7.610	23.66	-0.0307	0.3600		0.9994
44	Acenaphthylene	46.779	-6.4	1802376	1.590	1.700	7.677	7.675	4.00				
45	3-Nitroaniline	49.298	-1.4	407530	0.360	0.338	7.828	7.833	16.68	-0.0238	0.3839		0.9997
46	Acenaphthene	47.019	-6.0	1174121	1.036	1.101	7.919	7.917	7.22				
47	2,4-Dinitrophenol	45.343	-9.3	217185	0.192	0.171	7.970	7.972	46.88	-0.0390	0.2457		0.9960
48	4-Nitrophenol	46.590	-6.8	200305	0.177	0.169	8.061	8.065	25.66	-0.0193	0.2062		0.9992
49	Dibenzofuran	49.815	-0.4	1845127	1.628	1.634	8.162	8.156	9.00				
50	2,4-Dinitrotoluene	49.169	-1.7	475781	0.420	0.400	8.162	8.157	17.91	-0.0241	0.4465		0.9992
51	Diethylphthalate	46.891	-6.2	1385064	1.222	1.303	8.527	8.525	3.72				
52	Fluorene	47.836	-4.3	1367179	1.206	1.261	8.638	8.638	5.85				
53	4-Chlorophenyl-phenylether	46.707	-6.6	684096	0.604	0.646	8.658	8.658	9.88				
54	4-Nitroaniline	52.234	4.5	417716	0.369	0.336	8.689	8.694	15.55	-0.0149	0.3642		0.9993
55	4,6-Dinitro-2-methylphenol	48.612	-2.8	299914	0.265	0.235	8.729	8.730	32.87	-0.0337	0.2998		0.9987
56	N-Nitrosodiphenylamine	47.566	-4.9	943737	0.833	0.875	8.830	8.832	3.21				
57	Azobenzene	47.889	-4.2	1473955	1.300	1.358	8.881	8.881	2.01				
58	2,4,6-Tribromophenol												
59	Phenanthrene-d10	40.000	0	1383087	1	1	9.974	9.973	0				
60	4-Bromophenyl-phenylether	47.475	-5.1	414995	0.240	0.253	9.357	9.352	3.54				
61	Hexachlorobenzene	47.331	-5.3	464287	0.269	0.284	9.408	9.407	4.98				
62	Pentachlorophenol	47.181	-5.6	320331	0.185	0.182	9.701	9.696	17.27	-0.0131	0.2074		0.9998
63	Phenanthrene	48.346	-3.3	1981847	1.146	1.186	10.015	10.008	6.61				
64	Anthracene	47.254	-5.5	1849213	1.070	1.132	10.086	10.084	5.28				
65	Carbazole	49.605	-0.8	1769580	1.024	1.032	10.329	10.326	5.89				
66	Di-n-butylphthalate	50.118	0.2	2100098	1.215	1.212	10.875	10.878	7.58				
67	Fluoranthene	49.527	-0.9	1686858	0.976	0.985	11.614	11.616	4.09				
68	Chrysene-d12	40.000	0	979679	1	1	13.335	13.329	0				
69	Benzidine												
70	Pyrene	49.398	-1.2	1779527	1.453	1.471	11.867	11.862	2.97				
71	Terphenyl-d14												
72	Butylbenzylphthalate	48.383	-3.2	719832	0.588	0.557	12.667	12.663	19.40	-0.0457	0.6453		0.9994
73	3,3'-Dichlorobenzidine	47.752	-4.5	399838	0.327	0.302	13.305	13.305	27.08	-0.0366	0.3726		0.9991
74	Benzo(a)anthracene	51.261	2.5	1286958	1.051	1.025	13.315	13.318	2.32				
75	Chrysene	43.402	-13.2	1162224	0.949	1.093	13.365	13.365	2.79				
76	bis(2-Ethylhexyl)phthalate	46.970	-6.1	822248	0.671	0.666	13.416	13.409	17.64	-0.0460	0.7539		0.9994
77	Perylene-d12	40.000	0	572301	1	1	15.025	15.026	0				
78	Di-n-octylphthalate	46.796	-6.4	1197496	1.674	1.691	14.236	14.231	22.32	-0.3188	2.0610		0.9991
79	Benzo(b)fluoranthene	48.902	-2.2	1075989	1.504	1.538	14.620	14.620	13.79				
80	Benzo(k)fluoranthene	46.044	-7.9	893450	1.249	1.356	14.651	14.653	8.40				
81	Benzo(a)pyrene	47.690	-4.6	896779	1.254	1.314	14.965	14.970	3.94				
82	Indeno(1,2,3-cd)pyrene	49.433	-1.1	758690	1.061	1.073	16.220	16.220	14.11				
83	Dibenzo(a,h)anthracene	46.421	-7.2	602511	0.842	0.855	16.240	16.246	16.28	-0.0488	0.9492		0.9993
84	Benzo(g,h,i)perylene	46.297	-7.4	597047	0.835	0.901	16.544	16.545	7.00				

End
3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH194.D Vial: 12
Acq On : 16 Mar 2006 15:24 Operator: SG
Sample : ISV41C16 1 Inst : TO41
Misc : 50 PPM-2ND SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:15:55 2006
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	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	108	0.00
2	T	N-Nitrosodimethylamine	50.000	49.185	1.6	105	0.00
3	T	Pyridine	50.000	49.839	0.3	107	0.03
4	S	2-Fluorophenol	50.000	0.000	100.0#	0	-2.91#
5	C	Phenol	50.000	48.129	3.7	101	0.00
6	T	Aniline	50.000	52.054	-4.1	113	0.00
7	T	Bis(2-chloroethyl)ether	50.000	48.932	2.1	101	0.00
8	S	Phenol-d5	50.000	0.000	100.0#	0	-3.69#
9	T	2-Chlorophenol	50.000	49.295	1.4	105	0.00
10	T	1,3-Dichlorobenzene	50.000	47.508	5.0	104	0.00
11	C	1,4-Dichlorobenzene	50.000	48.264	3.5	105	0.00
12	T	Benzyl alcohol	50.000	52.180	-4.4	107	0.00
13	S	1,2-Dichlorobenzene-d4	50.000	0.000	100.0#	0	-4.27#
14	T	1,2-Dichlorobenzene	50.000	46.920	6.2	100	0.00
15	T	2-Methylphenol	50.000	49.228	1.5	106	0.01
16	T	Bis(2-chloroisopropyl)ether	50.000	48.665	2.7	102	0.01
17	T	4-Methylphenol	50.000	49.164	1.7	102	0.00
18	P	N-Nitroso-di-n-propylamine	50.000	48.497	3.0	100	0.00
19	T	Hexachloroethane	50.000	48.313	3.4	99	0.01
20	I	Naphthalene-d8	40.000	40.000	0.0	111	0.00
21	S	Nitrobenzene-d5	50.000	0.000	100.0#	0	-4.71#
22	T	Nitrobenzene	50.000	48.733	2.5	103	0.00
23	T	Isophorone	50.000	47.885	4.2	102	0.01
24	C	2-Nitrophenol	50.000	52.001	-4.0	106	0.01
25	T	2,4-Dimethylphenol	50.000	48.806	2.4	104	0.00
26	T	bis(2-Chloroethoxy)methane	50.000	50.137	-0.3	105	0.00
27	T	Benzoic Acid	50.000	49.521	1.0	112	0.01
28	C	2,4-Dichlorophenol	50.000	49.877	0.2	106	0.00
29	T	1,2,4-Trichlorobenzene	50.000	47.535	4.9	102	0.00
30	T	Naphthalene	50.000	47.428	5.1	103	0.00
31	T	4-Chloroaniline	50.000	51.614	-3.2	108	0.00
32	C	Hexachlorobutadiene	50.000	49.247	1.5	107	0.00
33	C	4-Chloro-3-methylphenol	50.000	51.539	-3.1	106	0.00
34	T	2-Methylnaphthalene	50.000	51.304	-2.6	109	0.00
35	I	Acenaphthene-d10	40.000	40.000	0.0	114	0.00
36	P	Hexachlorocyclopentadiene	50.000	49.508	1.0	112	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\06C16\RCH194.D Vial: 12
Acq On : 16 Mar 2006 15:24 Operator: SG
Sample : ISV41C16 1 Inst : TO41
Misc : 50 PPM-2ND SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:15:55 2006
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	C	2,4,6-Trichlorophenol	50.000	47.027	5.9	103	0.00
38	T	2,4,5-Trichlorophenol	50.000	52.778	-5.6	107	0.00
39	S	2-Fluorobiphenyl	50.000	0.000	100.0#	0	-6.97#
40	T	2-Chloronaphthalene	50.000	48.534	2.9	106	0.00
41	T	2-Nitroaniline	50.000	50.232	-0.5	114	0.00
42	T	Dimethylphthalate	50.000	47.729	4.5	104	0.00
43	T	2,6-Dinitrotoluene	50.000	49.690	0.6	109	0.01
44	T	Acenaphthylene	50.000	46.779	6.4	100	0.00
45	T	3-Nitroaniline	50.000	49.299	1.4	109	0.00
46	C	Acenaphthene	50.000	47.019	6.0	104	0.00
47	P	2,4-Dinitrophenol	50.000	45.343	9.3	108	0.00
48	P	4-Nitrophenol	50.000	46.591	6.8	107	0.00
49	T	Dibenzofuran	50.000	49.816	0.4	112	0.01
50	T	2,4-Dinitrotoluene	50.000	49.169	1.7	104	0.01
51	T	Diethylphthalate	50.000	46.891	6.2	102	0.00
52	T	Fluorene	50.000	47.837	4.3	106	0.00
53	T	4-Chlorophenyl-phenylether	50.000	46.707	6.6	105	0.00
54	T	4-Nitroaniline	50.000	52.235	-4.5	110	0.00
55	T	4,6-Dinitro-2-methylphenol	50.000	48.613	2.8	109	0.00
56	C	N-Nitrosodiphenylamine	50.000	47.566	4.9	104	0.00
57	T	Azobenzene	50.000	47.889	4.2	107	0.00
58	S	2,4,6-Tribromophenol	50.000	0.000	100.0#	0	-8.97#
59	I	Phenanthrene-d10	40.000	40.000	0.0	114	0.00
60	T	4-Bromophenyl-phenylether	50.000	47.475	5.0	104	0.01
61	T	Hexachlorobenzene	50.000	47.331	5.3	106	0.00
62	C	Pentachlorophenol	50.000	47.181	5.6	106	0.01
63	T	Phenanthrene	50.000	48.346	3.3	108	0.01
64	T	Anthracene	50.000	47.255	5.5	105	0.00
65	T	Carbazole	50.000	49.606	0.8	109	0.01
66	T	Di-n-butylphthalate	50.000	50.119	-0.2	103	0.00
67	C	Fluoranthene	50.000	49.527	0.9	107	0.00
68	I	Chrysene-d12	40.000	40.000	0.0	111	0.01
69	T	Benzidine	-1.000	0.000	0.0	0	0.01
70	T	Pyrene	50.000	49.398	1.2	109	0.01
71	S	Terphenyl-d14	50.000	0.000	100.0#	0	-12.06#
72	T	Butylbenzylphthalate	50.000	48.384	3.2	108	0.00

(#) = Out of Range

3120

Data File : C:\HPCHEM\1\DATA\06C16\RCH194.D Vial: 12
Acq On : 16 Mar 2006 15:24 Operator: SG
Sample : ISV41C16 1 Inst : TO41
Misc : 50 PPM-2ND SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:15:55 2006
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)
73	T	3,3'-Dichlorobenzidine	50.000	47.753	4.5	107	0.00
74	T	Benzo(a)anthracene	50.000	51.262	-2.5	114	0.00
75	T	Chrysene	50.000	43.402	13.2	96	0.00
76	T	bis(2-Ethylhexyl)phthalate	50.000	46.970	6.1	102	0.01
77	I	Perylene-d12	40.000	40.000	0.0	111	0.00
78	C	Di-n-octylphthalate	50.000	46.796	6.4	103	0.00
79	T	Benzo(b)fluoranthene	50.000	48.902	2.2	97	0.00
80	T	Benzo(k)fluoranthene	50.000	46.045	7.9	107	0.00
81	C	Benzo(a)pyrene	50.000	47.690	4.6	100	-0.01
82	T	Indeno(1,2,3-cd)pyrene	50.000	49.434	1.1	100	0.00
83	T	Dibenzo(a,h)anthracene	50.000	46.421	7.2	96	0.00
84	T	Benzo(g,h,i)perylene	50.000	46.298	7.4	96	-0.01

KMP 3/22/06

3121

Data File : C:\HPCHEM\1\DATA\06C16\RCH194.D Vial: 12
Acq On : 16 Mar 2006 15:24 Operator: SG
Sample : ISV41C16 1 Inst : TO41
Misc : 50 PPM-2ND SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:15:55 2006
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	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
2	T	N-Nitrosodimethylamine	0.777	0.765	1.5	105	0.00
3	T	Pyridine	1.348	1.343	0.4	107	0.03
4	S	2-Fluorophenol	1.194	0.000#	100.0#	0#	-2.91#
5	C	Phenol	1.646	1.584	3.8	101	0.00
6	T	Aniline	1.691	1.760	-4.1	113	0.00
7	T	Bis(2-chloroethyl)ether	1.239	1.213	2.1	101	0.00
8	S	Phenol-d5	1.525	0.000#	100.0#	0#	-3.69#
9	T	2-Chlorophenol	1.329	1.310	1.4	105	0.00
10	T	1,3-Dichlorobenzene	1.459	1.387	4.9	104	0.00
11	C	1,4-Dichlorobenzene	1.467	1.416	3.5	105	0.00
12	T	Benzyl alcohol	0.842	0.878	-4.3	107	0.00
13	S	1,2-Dichlorobenzene-d4	0.926	0.000#	100.0#	0#	-4.27#
14	T	1,2-Dichlorobenzene	1.369	1.285	6.1	100	0.00
15	T	2-Methylphenol	1.064	1.047	1.6	106	0.01
16	T	Bis(2-chloroisopropyl)ether	2.028	1.974	2.7	102	0.01
17	T	4-Methylphenol	1.566	1.540	1.7	102	0.00
18	P	N-Nitroso-di-n-propylamine	0.984	0.955	2.9	100	0.00
19	T	Hexachloroethane	0.560	0.541	3.4	99	0.01
20	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
21	S	Nitrobenzene-d5	0.378	0.000#	100.0#	0#	-4.71#
22	T	Nitrobenzene	0.388	0.378	2.6	103	0.00
23	T	Isophorone	0.678	0.649	4.3	102	0.01
24	C	2-Nitrophenol	0.210	0.218	-3.8	106	0.01
25	T	2,4-Dimethylphenol	0.325	0.317	2.5	104	0.00
26	T	bis(2-Chloroethoxy)methane	0.441	0.442	-0.2	105	0.00
27	T	Benzoic Acid	0.186	0.226	-21.5#	112	0.01
28	C	2,4-Dichlorophenol	0.331	0.330	0.3	106	0.00
29	T	1,2,4-Trichlorobenzene	0.357	0.339	5.0	102	0.00
30	T	Naphthalene	1.007	0.955	5.2	103	0.00
31	T	4-Chloroaniline	0.442	0.457	-3.4	108	0.00
32	C	Hexachlorobutadiene	0.202	0.199	1.5	107	0.00
33	C	4-Chloro-3-methylphenol	0.335	0.346	-3.3	106	0.00
34	T	2-Methylnaphthalene	0.666	0.683	-2.6	109	0.00
35	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00
36	P	Hexachlorocyclopentadiene	0.229	0.251	-9.6	112	0.00

(#) = Out of Range

CH 3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH194.D Vial: 12
Acq On : 16 Mar 2006 15:24 Operator: SG
Sample : ISV41C16 1 Inst : TO41
Misc : 50 PPM-2ND SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:15:55 2006
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	C	2,4,6-Trichlorophenol	0.454	0.427	5.9	103	0.00
38	T	2,4,5-Trichlorophenol	0.432	0.456	-5.6	107	0.00
39	S	2-Fluorobiphenyl	1.354	0.000#	100.0#	0#	-6.97#
40	T	2-Chloronaphthalene	1.180	1.145	3.0	106	0.00
41	T	2-Nitroaniline	0.406	0.454	-11.8	114	0.00
42	T	Dimethylphthalate	1.404	1.340	4.6	104	0.00
43	T	2,6-Dinitrotoluene	0.301	0.333	-10.6	109	0.01
44	T	Acenaphthylene	1.700	1.590	6.5	100	0.00
45	T	3-Nitroaniline	0.338	0.360	-6.5	109	0.00
46	C	Acenaphthene	1.101	1.036	5.9	104	0.00
47	P	2,4-Dinitrophenol	0.171	0.192	-12.3	108	0.00
48	P	4-Nitrophenol	0.169	0.177	-4.7	107	0.00
49	T	Dibenzofuran	1.634	1.628	0.4	112	0.01
50	T	2,4-Dinitrotoluene	0.400	0.420	-5.0	104	0.01
51	T	Diethylphthalate	1.303	1.222	6.2	102	0.00
52	T	Fluorene	1.261	1.206	4.4	106	0.00
53	T	4-Chlorophenyl-phenylether	0.646	0.604	6.5	105	0.00
54	T	4-Nitroaniline	0.336	0.369	-9.8	110	0.00
55	T	4,6-Dinitro-2-methylphenol	0.235	0.265	-12.8	109	0.00
56	C	N-Nitrosodiphenylamine	0.875	0.833	4.8	104	0.00
57	T	Azobenzene	1.358	1.300	4.3	107	0.00
58	S	2,4,6-Tribromophenol	0.208	0.000#	100.0#	0#	-8.97#
59	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
60	T	4-Bromophenyl-phenylether	0.253	0.240	5.1	104	0.01
61	T	Hexachlorobenzene	0.284	0.269	5.3	106	0.00
62	C	Pentachlorophenol	0.182	0.185	-1.6	106	0.01
63	T	Phenanthrene	1.186	1.146	3.4	108	0.01
64	T	Anthracene	1.132	1.070	5.5	105	0.00
65	T	Carbazole	1.032	1.024	0.8	109	0.01
66	T	Di-n-butylphthalate	1.212	1.215	-0.2	103	0.00
67	C	Fluoranthene	0.985	0.976	0.9	107	0.00
68	I	Chrysene-d12	1.000	1.000	0.0	111	0.01
69	T	Benzidine	0.000	0.000#	0.0	0#	0.01
70	T	Pyrene	1.471	1.453	1.2	109	0.01
71	S	Terphenyl-d14	0.865	0.000#	100.0#	0#	-12.06#
72	T	Butylbenzylphthalate	0.557	0.588	-5.6	108	0.00

(#) = Out of Range

VMP 3/17/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH194.D Vial: 12
Acq On : 16 Mar 2006 15:24 Operator: SG
Sample : ISV41C16 1 Inst : TO41
Misc : 50 PPM-2ND SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:15:55 2006
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)
73	T	3,3'-Dichlorobenzidine	0.302	0.327	-8.3	107	0.00
74	T	Benzo(a)anthracene	1.025	1.051	-2.5	114	0.00
75	T	Chrysene	1.093	0.949	13.2	96	0.00
76	T	bis(2-Ethylhexyl)phthalate	0.666	0.671	-0.8	102	0.01
77	I	Perylene-d12	1.000	1.000	0.0	111	0.00
78	C	Di-n-octylphthalate	1.691	1.674	1.0	103	0.00
79	T	Benzo(b)fluoranthene	1.538	1.504	2.2	97	0.00
80	T	Benzo(k)fluoranthene	1.356	1.249	7.9	107	0.00
81	C	Benzo(a)pyrene	1.314	1.254	4.6	100	-0.01
82	T	Indeno(1,2,3-cd)pyrene	1.073	1.061	1.1	100	0.00
83	T	Dibenzo(a,h)anthracene	0.855	0.842	1.5	96	0.00
84	T	Benzo(g,h,i)perylene	0.901	0.835	7.3	96	-0.01

KMP 3/21/06

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RCH194.D SV41C16.M Fri Mar 17 17:25:12 2006 TO41 Page 3

Data File : C:\HPCHEM\1\DATA\06C16\RCH194.D Vial: 12
Acq On : 16 Mar 2006 15:24 Operator: SG
Sample : ISV41C16 1 Inst : TO41
Misc : 50 PPM-2ND SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:24 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.09	152	462792	40.00	ng	0.00
20) Naphthalene-d8	5.59	136	1621630	40.00	ng	0.00
35) Acenaphthene-d10	7.87	164	906808	40.00	ng	0.00
59) Phenanthrene-d10	9.97	188	1383087	40.00	ng	0.00
68) Chrysene-d12	13.33	240	979679	40.00	ng	0.01
77) Perylene-d12	15.03	264	572301	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.00	112	0d	0.00	ng	
Spiked Amount 150.000			Recovery =	0.00%		
8) Phenol-d5	0.00	99	0d	0.00	ng	
Spiked Amount 150.000			Recovery =	0.00%		
13) 1,2-Dichlorobenzene-d4	0.00	152	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
21) Nitrobenzene-d5	0.00	82	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
39) 2-Fluorobiphenyl	0.00	172	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
58) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
Spiked Amount 150.000			Recovery =	0.00%		
71) Terphenyl-d14	0.00	244	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.09	74	442262	49.19	ng	88
3) Pyridine	2.12	79	777110	49.84	ng	100
5) Phenol	3.71	94	916568	48.13	ng	95
6) Aniline	3.77	93	1018216	52.05	ng	96
7) Bis(2-chloroethyl)ether	3.82	93	701645	48.93	ng	96
9) 2-Chlorophenol	3.88	128	758067	49.29	ng	99
10) 1,3-Dichlorobenzene	4.04	146	802119	47.51	ng	97
11) 1,4-Dichlorobenzene	4.11	146	819419	48.26	ng	95
12) Benzyl alcohol	4.23	108	508067	52.18	ng	98
14) 1,2-Dichlorobenzene	4.28	146	743297	46.92	ng	94
15) 2-Methylphenol	4.35	107	605761	49.23	ng	99
16) Bis(2-chloroisopropyl)ethe	4.39	45	1141841	48.66	ng	98
17) 4-Methylphenol	4.52	107	891024	49.16	ng	96
18) N-Nitroso-di-n-propylamine	4.54	70	552201	48.50	ng	95

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\06C16\RCH194.D
Acq On : 16 Mar 2006 15:24
Sample : ISV41C16 1
Misc : 50 PPM-2ND SOURCE
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:24 2006

Vial: 12
Operator: SG
Inst : TO41
Multiplr: 1.00
Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
19)	Hexachloroethane	4.66	117	313230	48.31	ng	88
22)	Nitrobenzene	4.73	77	766120	48.73	ng	99
23)	Isophorone	5.02	82	1316341	47.89	ng	95
24)	2-Nitrophenol	5.12	139	442478	52.00	ng	92
25)	2,4-Dimethylphenol	5.16	122	642665	48.81	ng	100
26)	bis(2-Chloroethoxy)methane	5.29	93	895607	50.14	ng	98
27)	Benzoic Acid	5.32	122	458809	49.52	ng	99
28)	2,4-Dichlorophenol	5.40	162	668947	49.88	ng	97
29)	1,2,4-Trichlorobenzene	5.52	180	687592	47.53	ng	92
30)	Naphthalene	5.62	128	1936133	47.43	ng	99
31)	4-Chloroaniline	5.69	127	925410	51.61	ng	98
32)	Hexachlorobutadiene	5.77	225	402581	49.25	ng	97
33)	4-Chloro-3-methylphenol	6.30	107	700346	51.54	ng	98
34)	2-Methylnaphthalene	6.49	142	1385348	51.30	ng	98
36)	Hexachlorocyclopentadiene	6.68	237	284966	49.51	ng	96
37)	2,4,6-Trichlorophenol	6.85	196	484036	47.03	ng	98
38)	2,4,5-Trichlorophenol	6.89	196	517108	52.78	ng	95
40)	2-Chloronaphthalene	7.12	162	1298050	48.53	ng	98
41)	2-Nitroaniline	7.26	65	515009	50.23	ng	92
42)	Dimethylphthalate	7.53	163	1518912	47.73	ng	98
43)	2,6-Dinitrotoluene	7.62	165	377705	49.69	ng	85
44)	Acenaphthylene	7.68	152	1802376	46.78	ng	98
45)	3-Nitroaniline	7.83	138	407530	49.30	ng	93
46)	Acenaphthene	7.92	154	1174121	47.02	ng	97
47)	2,4-Dinitrophenol	7.97	184	217185	45.34	ng	93
48)	4-Nitrophenol	8.06	109	200305	46.59	ng	95
49)	Dibenzofuran	8.16	168	1845127	49.82	ng	99
50)	2,4-Dinitrotoluene	8.16	165	475781	49.17	ng	91
51)	Diethylphthalate	8.53	149	1385064	46.89	ng	99
52)	Fluorene	8.64	166	1367179	47.84	ng	99
53)	4-Chlorophenyl-phenylether	8.66	204	684096	46.71	ng	93
54)	4-Nitroaniline	8.69	138	417716	52.23	ng	97
55)	4,6-Dinitro-2-methylphenol	8.73	198	299914	48.61	ng	95
56)	N-Nitrosodiphenylamine	8.83	169	943737	47.57	ng	98
57)	Azobenzene	8.88	77	1473955	47.89	ng	98
60)	4-Bromophenyl-phenylether	9.36	248	414995	47.48	ng	91
61)	Hexachlorobenzene	9.41	284	464287	47.33	ng	100
62)	Pentachlorophenol	9.70	266	320331	47.18	ng	96

(#) = qualifier out of range (m) = manual integration

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH194.D Vial: 12
Acq On : 16 Mar 2006 15:24 Operator: SG
Sample : ISV41C16 1 Inst : TO41
Misc : 50 PPM-2ND SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:24 2006 Quant Results File: SV41C16.RES

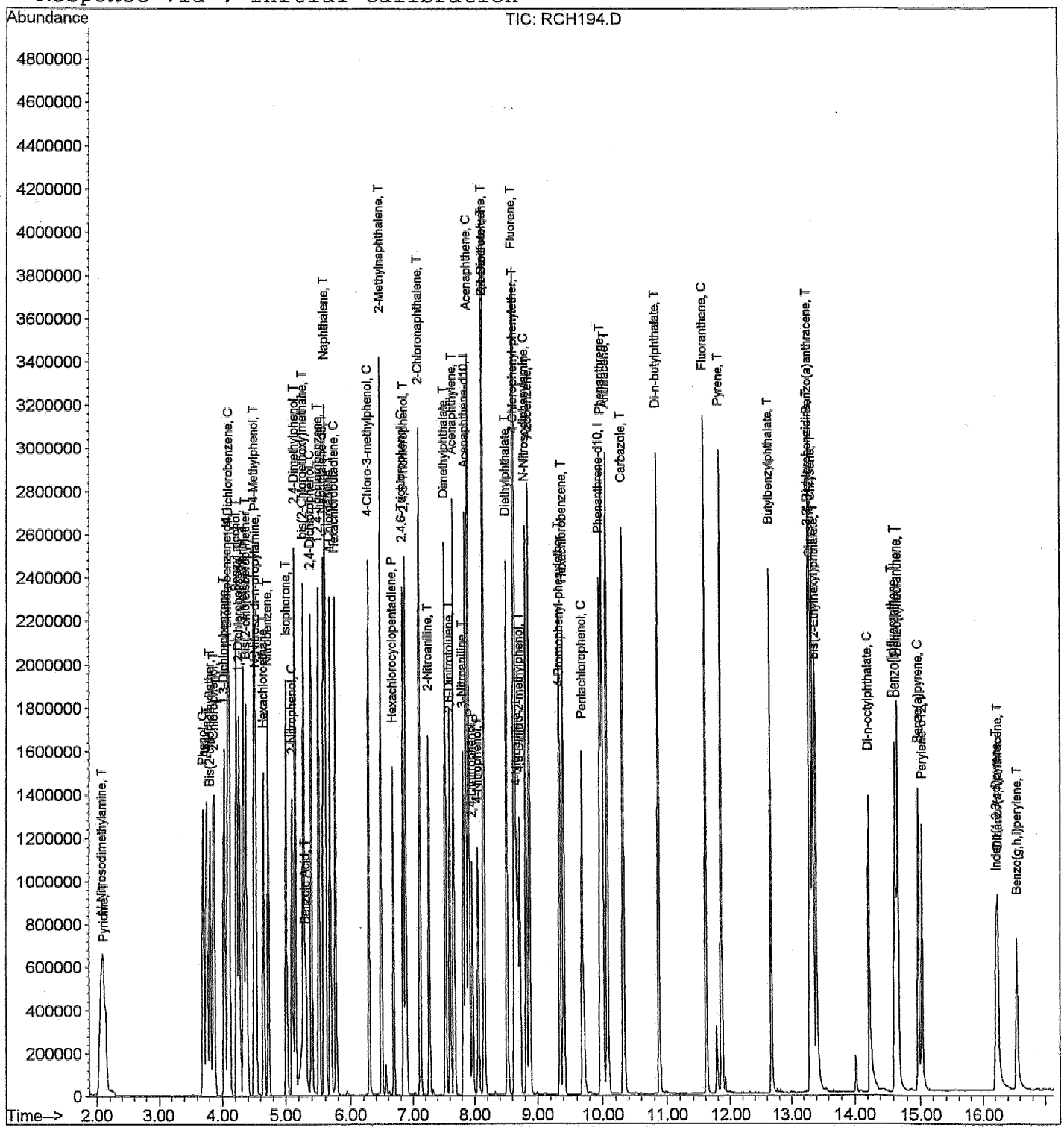
Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) Phenanthrene	10.01	178	1981847	48.35	ng	99
64) Anthracene	10.09	178	1849213	47.25	ng	99
65) Carbazole	10.33	167	1769580	49.61	ng	100
66) Di-n-butylphthalate	10.88	149	2100098	50.12	ng	99
67) Fluoranthene	11.61	202	1686858	49.53	ng	99
70) Pyrene	11.87	202	1779527	49.40	ng	97
72) Butylbenzylphthalate	12.67	149	719832	48.38	ng	97
73) 3,3'-Dichlorobenzidine	13.30	252	399838	47.75	ng	99
74) Benzo(a)anthracene	13.31	228	1286958	51.26	ng	99
75) Chrysene	13.37	228	1162224	43.40	ng	97
76) bis(2-Ethylhexyl)phthalate	13.42	149	822248	46.97	ng	93
78) Di-n-octylphthalate	14.24	149	1197496	46.80	ng	97
79) Benzo(b)fluoranthene	14.62	252	1075989	48.90	ng	98
80) Benzo(k)fluoranthene	14.65	252	893450	46.04	ng	99
81) Benzo(a)pyrene	14.96	252	896779	47.69	ng	96
82) Indeno(1,2,3-cd)pyrene	16.22	276	758690	49.43	ng	99
83) Dibenzo(a,h)anthracene	16.24	278	602511	46.42	ng	93
84) Benzo(g,h,i)perylene	16.54	276	597047	46.30	ng	95

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\06C16\RCH194.D Vial: 12
Acq On : 16 Mar 2006 15:24 Operator: SG
Sample : ISV41C16 1 Inst : TO41
Misc : 50 PPM-2ND SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 17:24 2006 Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration



3/22/06

3128

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :TO41
IC_Beginning DateTime :03/16/06 19:33
Spike Amount :50 PPM
CC/CV File :RCH211
IC File :RCH207

Column Spec :ZB-5MS ID :0.18MM
IC_Ending DateTime :03/16/06 22:02
HPChem Method :SV41C16B
Date_Time :03/16/06 22:27

M IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
1	Phenanthrene-d10	40.000	0	1053188	1	1	9.969	9.967	0				
2	Octachlorostyrene	53.564	7.1	108062	0.082	0.077	11.406	11.410	7.94				

3/21/06

Data File : C:\HPCHEM\1\DATA\06C16\RCH211.D Vial: 29
Acq On : 16 Mar 2006 22:27 Operator: SG
Sample : ISV41C16B 1 Inst : TO41
Misc : 50 PPM -2ND SOURC3-OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:17:20 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Phenanthrene-d10	40.000	40.000	0.0	93	0.00
2	T	Octachlorostyrene	50.000	53.564	-7.1	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RCH211.D SV41C16B.M Fri Mar 17 18:17:52 2006 TO41 Page 1

3130

Data File : C:\HPCHEM\1\DATA\06C16\RCH211.D Vial: 29
Acq On : 16 Mar 2006 22:27 Operator: SG
Sample : ISV41C16B 1 Inst : TO41
Misc : 50 PPM -2ND SOURC3-OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:17:20 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
2	T	Octachlorostyrene	0.077	0.082	-6.5	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RCH211.D SV41C16B.M Fri Mar 17 18:17:46 2006 TO41 Page 1

3131

Data File : C:\HPCHEM\1\DATA\06C16\RCH211.D Vial: 29
Acq On : 16 Mar 2006 22:27 Operator: SG
Sample : ISV41C16B 1 Inst : TO41
Misc : 50 PPM -2ND SOURC3-OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:17 2006 Quant Results File: SV41C16B.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

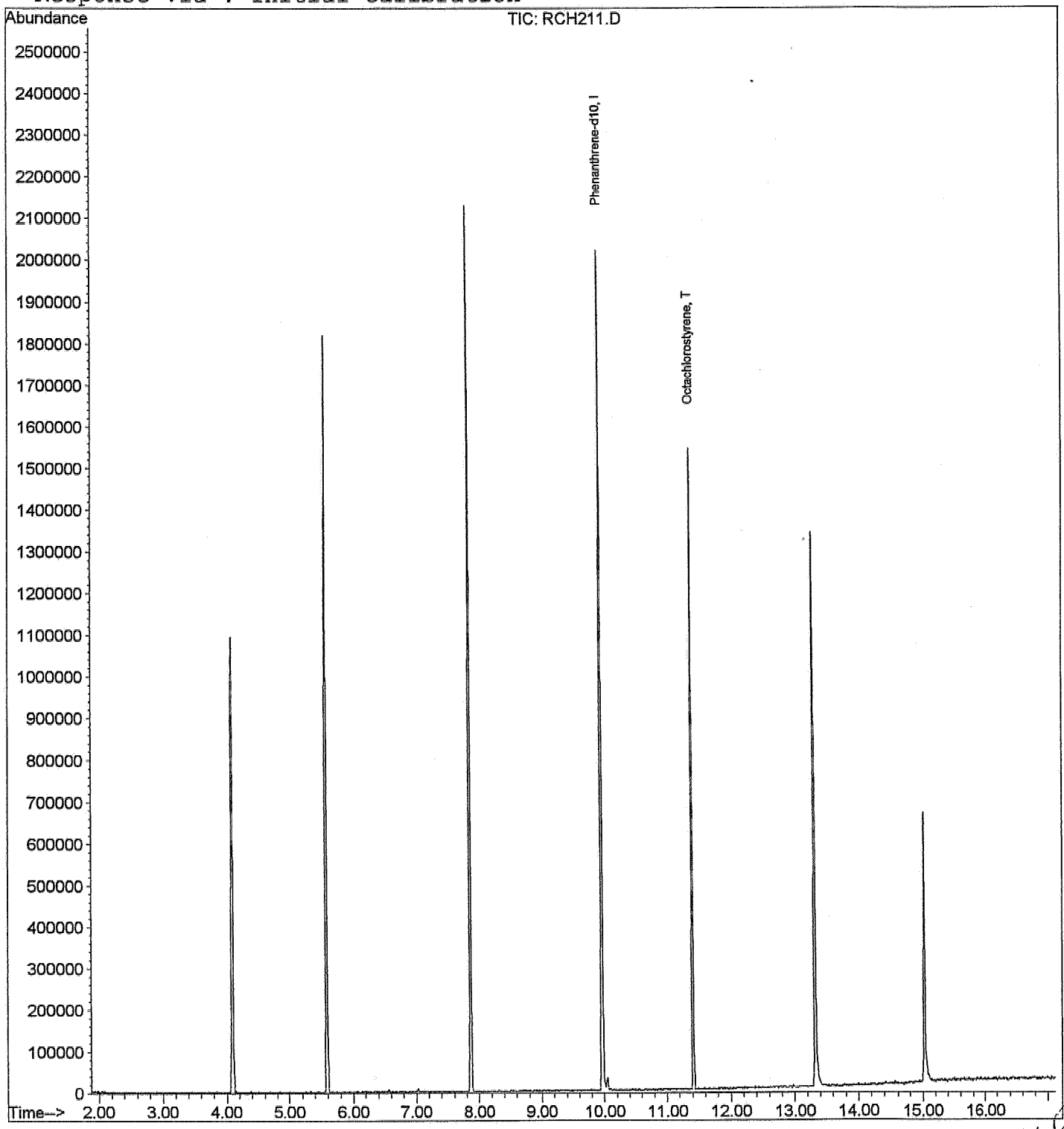
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.97	188	1053188	40.00	ng	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Octachlorostyrene	11.41	308	108062	53.56	ng	87

(#) = qualifier out of range (m) = manual integration
RCH211.D SV41C16B.M Fri Mar 17 18:17:56 2006 TO41 Page 1

3132

Data File : C:\HPCHEM\1\DATA\06C16\RCH211.D Vial: 29
Acq On : 16 Mar 2006 22:27 Operator: SG
Sample : ISV41C16B 1 Inst : TO41
Misc : 50 PPM -2ND SOURC3-OCTACLOROSTYRENE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 18:17 2006 Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration



RCH211.D SV41C16B.M Fri Mar 17 18:17:57 2006 TO41 Page

DAILY CALIBRATIONS

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCH367
Instrument ID: T-041

Project: UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C204
DFTPP Injection Date: 03/30/06
DFTPP Injection Time: 10:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.39
68	Less than 2% of mass 69	0.00(0.0)1
69	Relative abundance of mass 198	64.94
70	Less than 2.0% of mass 69	0.27(0.4)1
127	40.0 - 60.0% of mass 198	46.54
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.97
275	10.0 - 30.0% of mass 198	22.32
365	Greater than 1.00% of mass 198	1.95
441	Present, but less than mass 443	8.69
442	Greater than 40.0% of mass 198	55.01
443	17.0 - 23.0% of mass 442	11.31(20.6)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
1	SSTD050	CSV41C1606	RCH368	03/30/06	11:04
2	SSTD050	CSV41C16B06	RCH369	03/30/06	11:43
3	MBLK1W	SVC031WB	RCH371	03/30/06	13:26
4	LCS1W	SVC031WL	RCH372	03/30/06	13:51
5	LCD1W	SVC031WC	RCH373	03/30/06	14:16
6	M-120	C204-01	RCH374	03/30/06	14:41

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCH189
Instrument ID: T-041

Project: UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C204
Date Analyzed: 03/16/06
Time Analyzed: 13:09

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	430494	4.09	1462791	5.59	798603	7.87
UPPER LIMIT	860988	4.59	2925582	6.09	1597206	8.37
LOWER LIMIT	215247	3.59	731396	5.09	399302	7.37
SAMPLE ID						
1 SSTD050	393178	4.10	1384313	5.58	778063	7.86
2 MBLK1W	423741	4.09	1516489	5.58	856452	7.87
3 LCS1W	368885	4.10	1352857	5.59	726480	7.86
4 LCD1W	403260	4.10	1422047	5.59	680652	7.86
5 M-120	392565	4.09	1380762	5.58	775878	7.86

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal satndard 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 used to flag internal standard area values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCH189
Instrument ID: T-041

Project: UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C204
Date Analyzed: 03/16/06
Time Analyzed: 13:09

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	1218481	9.97	882905	13.32	515385	15.03
UPPER LIMIT	2436962	10.47	1765810	13.82	1030770	15.53
LOWER LIMIT	609241	9.47	441453	12.82	257693	14.53
SAMPLE ID						
1 SSTD050	1166633	9.97	898890	13.33	561494	15.03
2 MBLK1W	1363497	9.97	1043094	13.32	648585	15.03
3 LCS1W	1034278	9.97	604134	13.33	346464	15.03
4 LCD1W	1013583	9.97	694340	13.33	413960	15.03
5 M-120	1269057	9.96	908785	13.32	576508	15.02

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

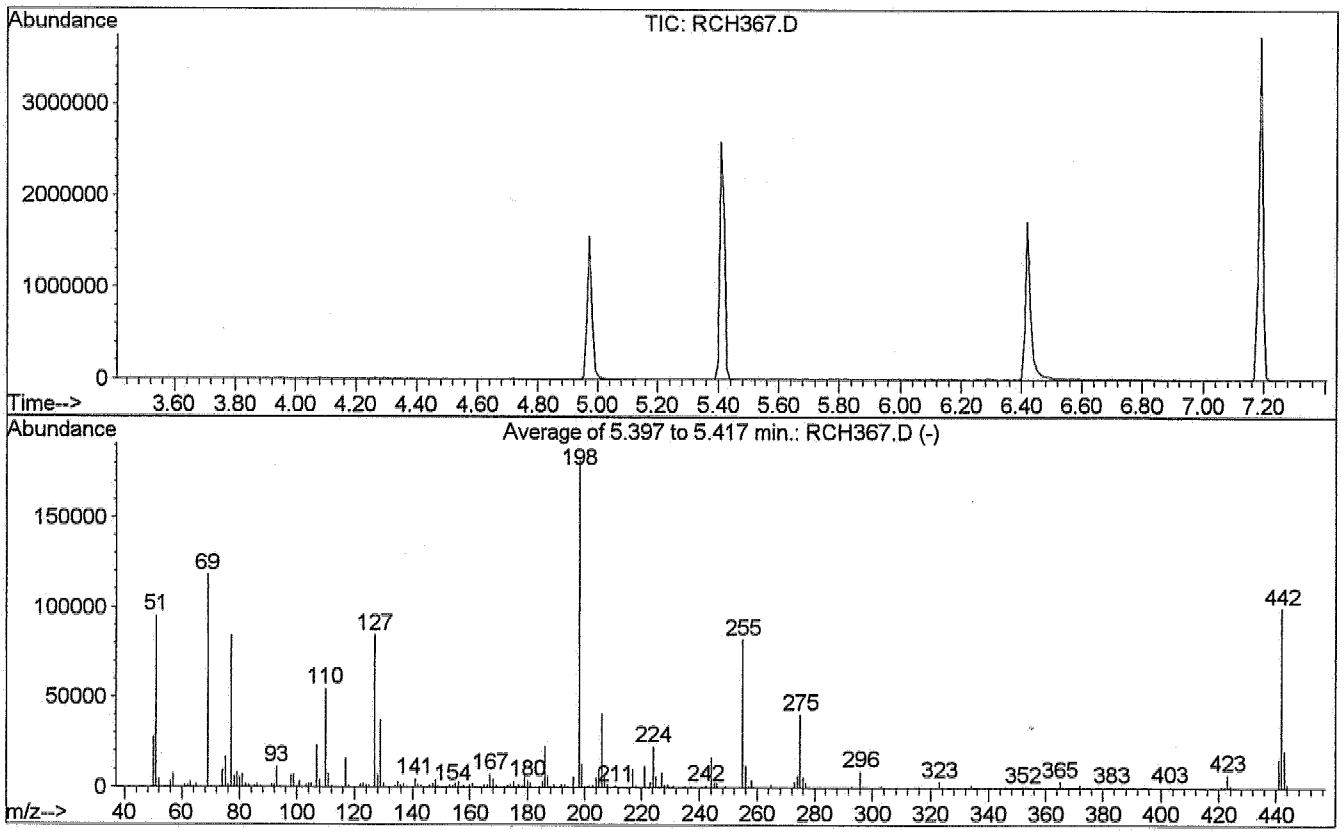
AREA UPPER LIMIT = +100% of internal satndard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

DFTPP

Data File : C:\HPCHEM\1\DATA\06C30\RCH367.D
Acq On : 30 Mar 2006 10:35
Sample : DFT41C1606
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC

Vial: 2
Operator: SG
Inst : TO41
Multiplr: 1.00



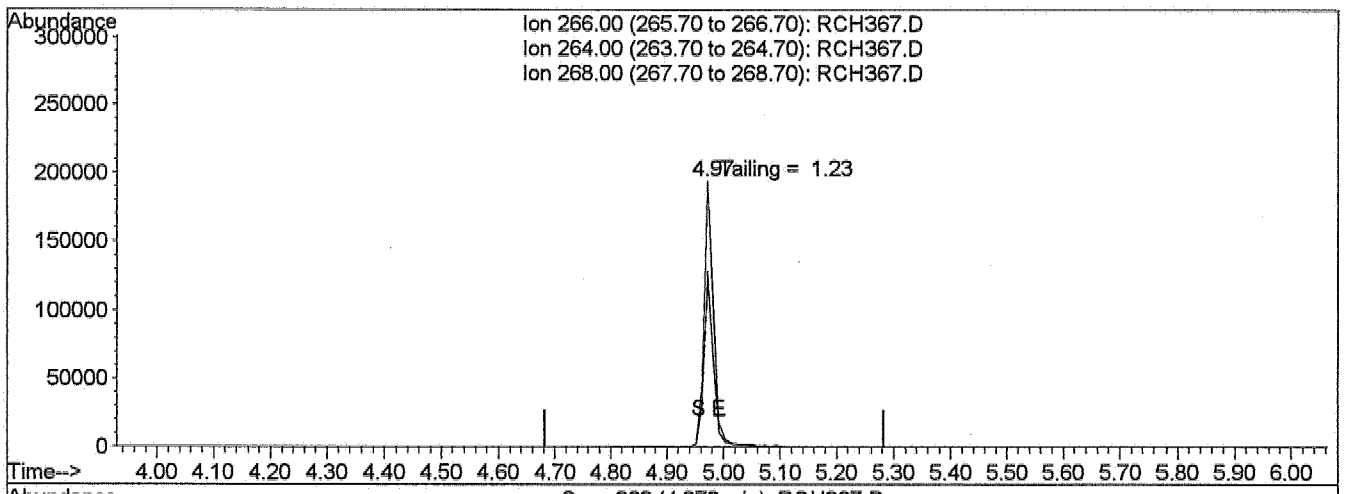
AutoFind: Scans 304, 305, 306; Background Corrected with Scan 301

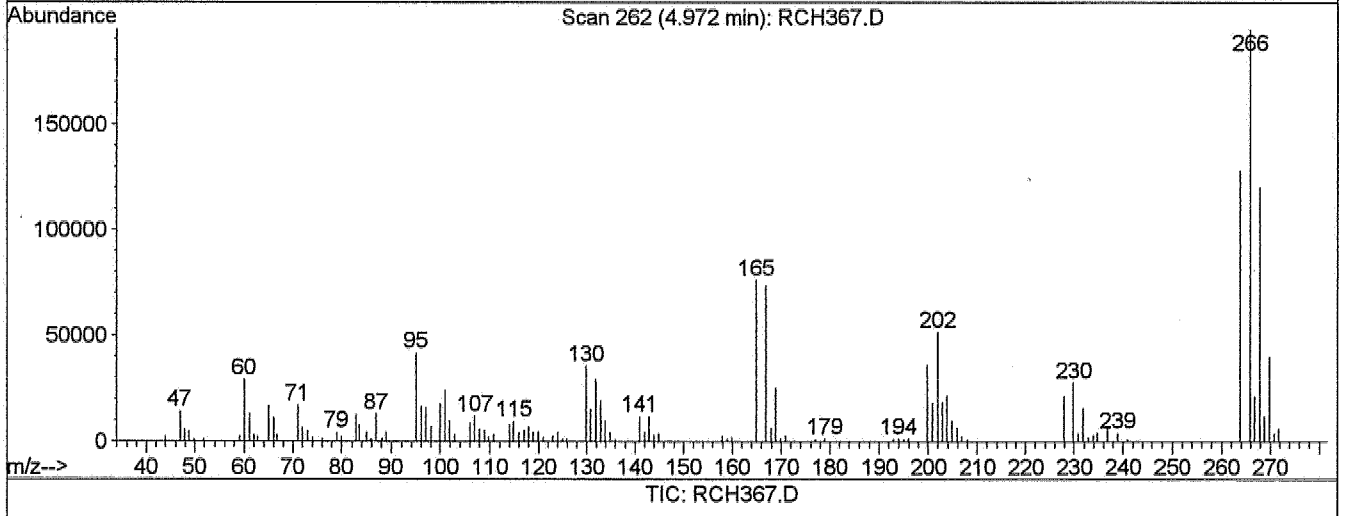
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.4	95347	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	64.9	118192	PASS
70	69	0.00	2	0.4	494	PASS
127	198	40	60	46.5	84707	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	181995	PASS
199	198	5	9	7.0	12691	PASS
275	198	10	30	22.3	40628	PASS
365	198	1	100	1.9	3539	PASS
441	443	0.01	100	76.8	15821	PASS
442	198	40	100	55.0	100111	PASS
443	442	17	23	20.6	20587	PASS

Quantitation Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH367.D Vial: 2
Acq On : 30 Mar 2006 10:35 Operator: SG
Sample : DFT41C1606 Inst : TO41
Misc : Multiplr: 1.00
Quant Time: Mar 30 10:43 2006 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC
Last Update : Thu Nov 03 17:25:00 2005
Response via : Single Level Calibration





TIC: RCH367.D

(1) Pentachlorophenol

4.97min 57.89ng

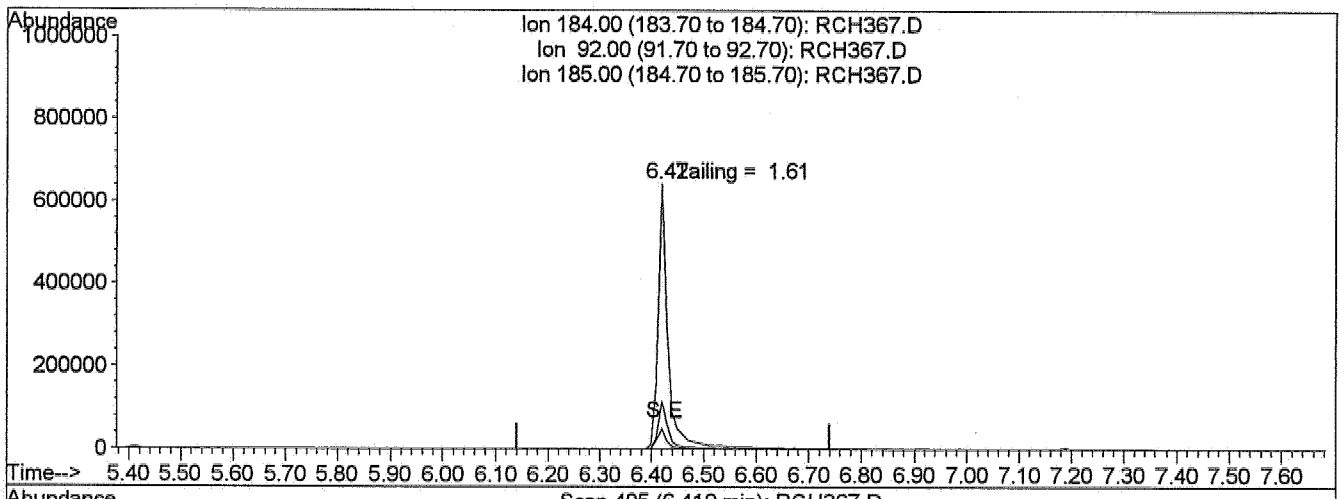
response 231073

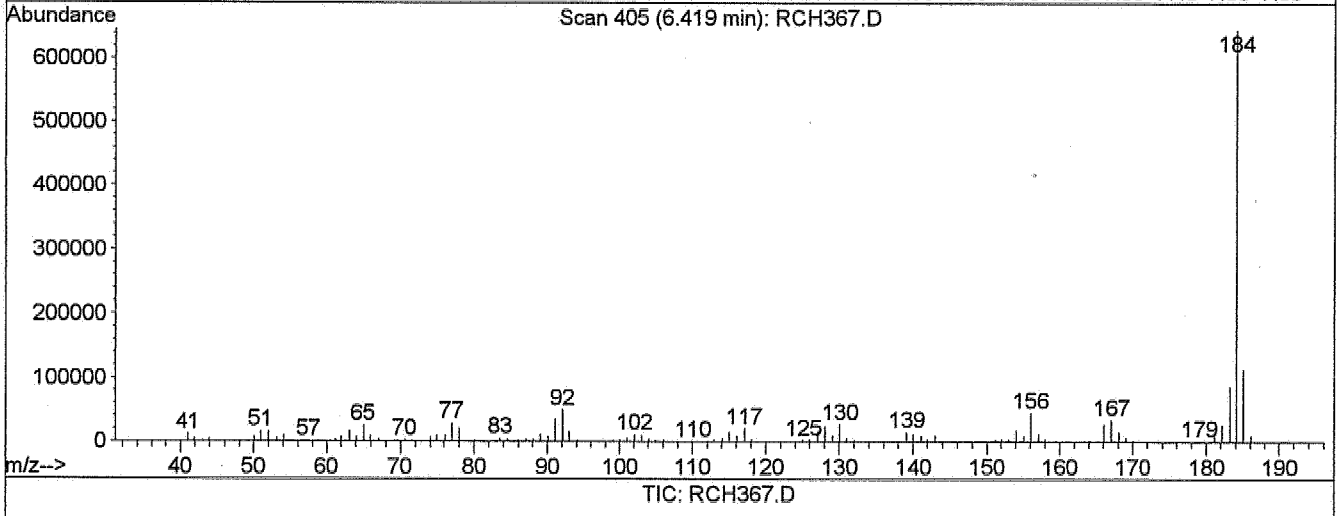
Ion	Exp%	Act%
266.00	100	100
264.00	62.00	66.12
268.00	62.60	62.05
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH367.D Vial: 2
Acq On : 30 Mar 2006 10:35 Operator: SG
Sample : DFT41C1606 Inst : TO41
Misc : Multiplr: 1.00
Quant Time: Mar 30 10:43 2006 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC
Last Update : Thu Nov 03 17:25:00 2005
Response via : Single Level Calibration





TIC: RCH367.D

(3) Benzidine

6.42min 47.02ng

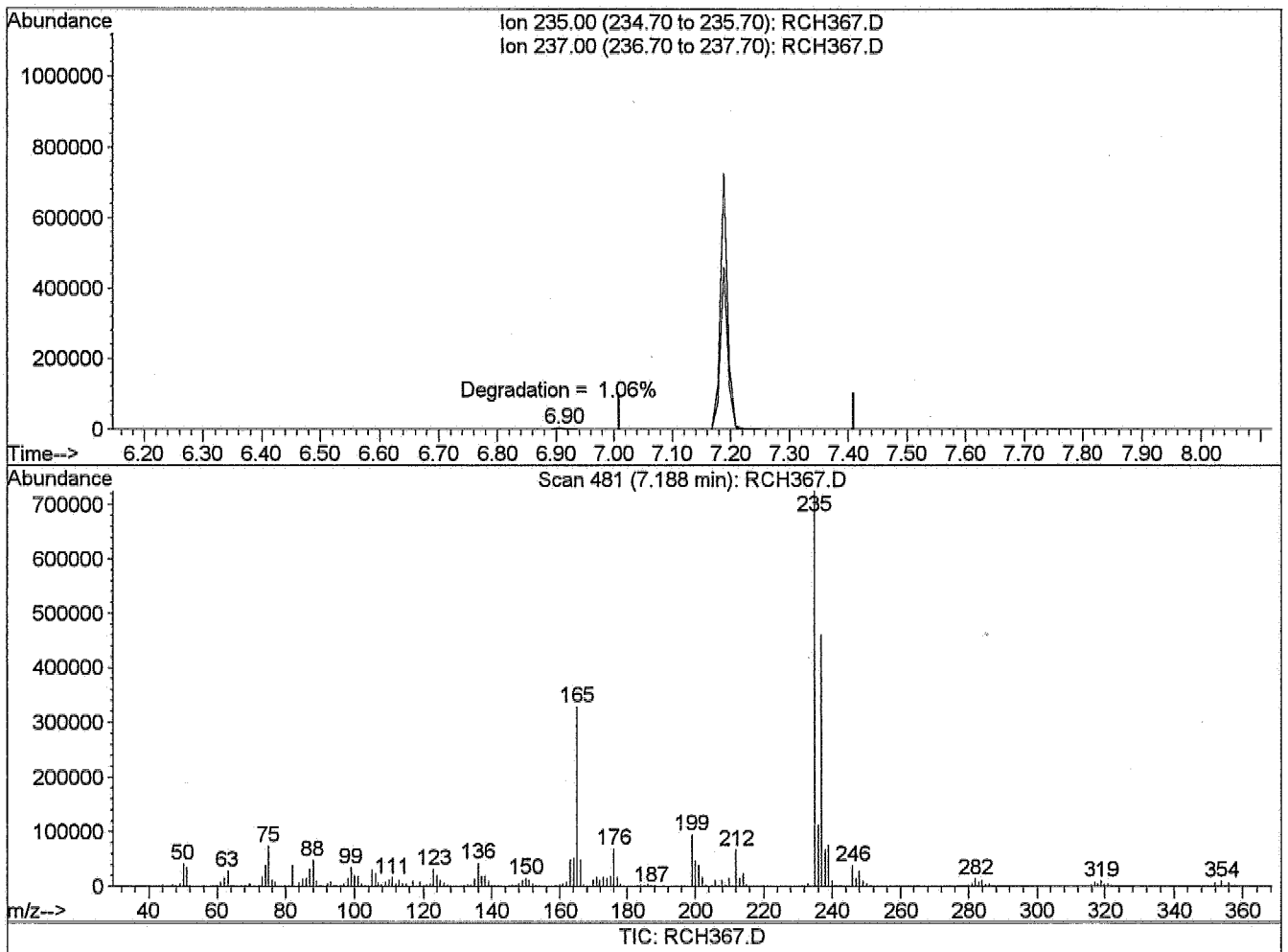
response 864046

Ion	Exp%	Act%
184.00	100	100
92.00	7.10	7.72
185.00	16.70	17.80
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH367.D Vial: 2
Acq On : 30 Mar 2006 10:35 Operator: SG
Sample : DFT41C1606 Inst : TO41
Misc : Multiplr: 1.00
Quant Time: Mar 30 10:43 2006 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270C TUNE 5970MSD-5890GC
Last Update : Thu Nov 03 17:25:00 2005
Response via : Single Level Calibration



TIC: RCH367.D

(6) DDT

7.19min 53.31ng

response 635460

Ion	Exp%	Act%
235.00	100	100
237.00	65.20	63.58
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH368.D
Acq On : 30 Mar 2006 11:04
Sample : CSV41C1606
Misc :
MS Integration Params: RTEINT.P

Vial: 3
Operator: SG
Inst : TO41
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
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	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	91	0.00
2	T	N-Nitrosodimethylamine	50.000	53.407	-6.8	97	0.00
3	T	Pyridine	50.000	52.668	-5.3	96	0.01
4	S	2-Fluorophenol	50.000	52.589	-5.2	93	0.00
5	C	Phenol	50.000	53.476	-7.0	95	0.00
6	T	Aniline	50.000	56.411	-12.8	104	0.00
7	T	Bis(2-chloroethyl)ether	50.000	49.946	0.1	88	0.00
8	S	Phenol-d5	50.000	53.074	-6.1	94	0.00
9	T	2-Chlorophenol	50.000	53.335	-6.7	97	0.00
10	T	1,3-Dichlorobenzene	50.000	51.202	-2.4	95	0.00
11	C	1,4-Dichlorobenzene	50.000	51.044	-2.1	95	0.00
12	T	Benzyl alcohol	50.000	55.090	-10.2	96	0.00
13	S	1,2-Dichlorobenzene-d4	50.000	49.862	0.3	90	0.00
14	T	1,2-Dichlorobenzene	50.000	51.033	-2.1	92	0.00
15	T	2-Methylphenol	50.000	54.342	-8.7	99	0.00
16	T	Bis(2-chloroisopropyl)ether	50.000	53.408	-6.8	95	0.00
17	T	4-Methylphenol	50.000	54.112	-8.2	95	0.00
18	P	N-Nitroso-di-n-propylamine	50.000	54.087	-8.2	95	0.00
19	T	Hexachloroethane	50.000	52.850	-5.7	92	0.00
20	I	Naphthalene-d8	40.000	40.000	0.0	95	0.00
21	S	Nitrobenzene-d5	50.000	53.435	-6.9	92	0.00
22	T	Nitrobenzene	50.000	55.402	-10.8	100	0.00
23	T	Isophorone	50.000	54.618	-9.2	100	0.00
24	C	2-Nitrophenol	50.000	56.709	-13.4	99	0.00
25	T	2,4-Dimethylphenol	50.000	54.860	-9.7	99	0.00
26	T	bis(2-Chloroethoxy)methane	50.000	51.648	-3.3	93	0.00
27	T	Benzoic Acid	50.000	45.819	8.4	87	0.00
28	C	2,4-Dichlorophenol	50.000	53.939	-7.9	97	0.00
29	T	1,2,4-Trichlorobenzene	50.000	50.389	-0.8	93	0.00
30	T	Naphthalene	50.000	52.229	-4.5	96	0.00
31	T	4-Chloroaniline	50.000	52.770	-5.5	94	0.00
32	C	Hexachlorobutadiene	50.000	52.625	-5.3	98	0.00
33	C	4-Chloro-3-methylphenol	50.000	54.901	-9.8	97	0.00
34	T	2-Methylnaphthalene	50.000	51.867	-3.7	94	0.00
35	I	Acenaphthene-d10	40.000	40.000	0.0	97	0.00
36	P	Hexachlorocyclopentadiene	50.000	46.139	7.7	89	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\06C30\RCH368.D Vial: 3
Acq On : 30 Mar 2006 11:04 Operator: SG
Sample : CSV41C1606 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
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	C	2,4,6-Trichlorophenol	50.000	51.907	-3.8	97	0.00
38	T	2,4,5-Trichlorophenol	50.000	53.718	-7.4	94	0.00
39	S	2-Fluorobiphenyl	50.000	52.147	-4.3	97	0.00
40	T	2-Chloronaphthalene	50.000	50.888	-1.8	95	0.00
41	T	2-Nitroaniline	50.000	51.553	-3.1	100	0.00
42	T	Dimethylphthalate	50.000	52.238	-4.5	97	0.00
43	T	2,6-Dinitrotoluene	50.000	49.457	1.1	93	0.00
44	T	Acenaphthylene	50.000	52.393	-4.8	96	0.00
45	T	3-Nitroaniline	50.000	51.609	-3.2	98	0.00
46	C	Acenaphthene	50.000	50.587	-1.2	96	0.00
47	P	2,4-Dinitrophenol	50.000	42.694	14.6	86	0.00
48	P	4-Nitrophenol	50.000	48.979	2.0	97	0.01
49	T	Dibenzofuran	50.000	51.367	-2.7	99	0.00
50	T	2,4-Dinitrotoluene	50.000	51.892	-3.8	94	0.00
51	T	Diethylphthalate	50.000	52.650	-5.3	98	0.00
52	T	Fluorene	50.000	53.736	-7.5	102	0.00
53	T	4-Chlorophenyl-phenylether	50.000	52.759	-5.5	102	0.00
54	T	4-Nitroaniline	50.000	55.416	-10.8	101	0.00
55	T	4,6-Dinitro-2-methylphenol	50.000	50.947	-1.9	99	0.00
56	C	N-Nitrosodiphenylamine	50.000	53.658	-7.3	101	0.00
57	T	Azobenzene	50.000	52.439	-4.9	100	0.00
58	S	2,4,6-Tribromophenol	50.000	54.210	-8.4	101	0.00
59	I	Phenanthrene-d10	40.000	40.000	0.0	96	0.00
60	T	4-Bromophenyl-phenylether	50.000	54.683	-9.4	101	0.00
61	T	Hexachlorobenzene	50.000	53.998	-8.0	102	0.00
62	C	Pentachlorophenol	50.000	52.656	-5.3	101	0.00
63	T	Phenanthrene	50.000	52.299	-4.6	99	0.00
64	T	Anthracene	50.000	53.768	-7.5	101	0.00
65	T	Carbazole	50.000	57.324	-14.6	107	0.00
66	T	Di-n-butylphthalate	50.000	55.080	-10.2	95	0.00
67	C	Fluoranthene	50.000	56.076	-12.2	102	0.00
68	I	Chrysene-d12	40.000	40.000	0.0	102	0.00
69	T	Benzidine	-1.000	0.000	0.0	0	0.00
70	T	Pyrene	50.000	49.195	1.6	100	0.00
71	S	Terphenyl-d14	50.000	51.742	-3.5	105	0.00
72	T	Butylbenzylphthalate	50.000	51.437	-2.9	105	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH368.D Vial: 3
Acq On : 30 Mar 2006 11:04 Operator: SG
Sample : CSV41C1606 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
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)
73	T	3,3'-Dichlorobenzidine	50.000	50.226	-0.5	103	0.00
74	T	Benzo(a)anthracene	50.000	51.376	-2.8	105	0.00
75	T	Chrysene	50.000	51.721	-3.4	105	0.00
76	T	bis(2-Ethylhexyl)phthalate	50.000	51.525	-3.0	103	0.00
77	I	Perylene-d12	40.000	40.000	0.0	109	0.00
78	C	Di-n-octylphthalate	50.000	47.513	5.0	103	0.00
79	T	Benzo(b)fluoranthene	50.000	45.896	8.2	89	0.00
80	T	Benzo(k)fluoranthene	50.000	60.242	-20.5#	137	0.00
81	C	Benzo(a)pyrene	50.000	53.471	-6.9	111	0.00
82	T	Indeno(1,2,3-cd)pyrene	50.000	57.010	-14.0	113	0.00
83	T	Dibenzo(a,h)anthracene	50.000	53.483	-7.0	109	0.00
84	T	Benzo(g,h,i)perylene	50.000	53.535	-7.1	109	0.00

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH368.D Vial: 3
Acq On : 30 Mar 2006 11:04 Operator: SG
Sample : CSV41C1606 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
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	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
2	T	N-Nitrosodimethylamine	0.777	0.830	-6.8	97	0.00
3	T	Pyridine	1.348	1.420	-5.3	96	0.01
4	S	2-Fluorophenol	1.194	1.255	-5.1	93	0.00
5	C	Phenol	1.646	1.760	-6.9	95	0.00
6	T	Aniline	1.691	1.907	-12.8	104	0.00
7	T	Bis(2-chloroethyl)ether	1.239	1.238	0.1	88	0.00
8	S	Phenol-d5	1.525	1.619	-6.2	94	0.00
9	T	2-Chlorophenol	1.329	1.418	-6.7	97	0.00
10	T	1,3-Dichlorobenzene	1.459	1.494	-2.4	95	0.00
11	C	1,4-Dichlorobenzene	1.467	1.498	-2.1	95	0.00
12	T	Benzyl alcohol	0.842	0.927	-10.1	96	0.00
13	S	1,2-Dichlorobenzene-d4	0.926	0.923	0.3	90	0.00
14	T	1,2-Dichlorobenzene	1.369	1.398	-2.1	92	0.00
15	T	2-Methylphenol	1.064	1.156	-8.6	99	0.00
16	T	Bis(2-chloroisopropyl)ether	2.028	2.166	-6.8	95	0.00
17	T	4-Methylphenol	1.566	1.695	-8.2	95	0.00
18	P	N-Nitroso-di-n-propylamine	0.984	1.065	-8.2	95	0.00
19	T	Hexachloroethane	0.560	0.592	-5.7	92	0.00
20	I	Naphthalene-d8	1.000	1.000	0.0	95	0.00
21	S	Nitrobenzene-d5	0.378	0.404	-6.9	92	0.00
22	T	Nitrobenzene	0.388	0.430	-10.8	100	0.00
23	T	Isophorone	0.678	0.741	-9.3	100	0.00
24	C	2-Nitrophenol	0.210	0.238	-13.3	99	0.00
25	T	2,4-Dimethylphenol	0.325	0.356	-9.5	99	0.00
26	T	bis(2-Chloroethoxy)methane	0.441	0.455	-3.2	93	0.00
27	T	Benzoic Acid	0.186	0.207	-11.3	87	0.00
28	C	2,4-Dichlorophenol	0.331	0.357	-7.9	97	0.00
29	T	1,2,4-Trichlorobenzene	0.357	0.360	-0.8	93	0.00
30	T	Naphthalene	1.007	1.052	-4.5	96	0.00
31	T	4-Chloroaniline	0.442	0.467	-5.7	94	0.00
32	C	Hexachlorobutadiene	0.202	0.212	-5.0	98	0.00
33	C	4-Chloro-3-methylphenol	0.335	0.368	-9.9	97	0.00
34	T	2-Methylnaphthalene	0.666	0.691	-3.8	94	0.00
35	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00
36	P	Hexachlorocyclopentadiene	0.229	0.233	-1.7	89	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH368.D Vial: 3
Acq On : 30 Mar 2006 11:04 Operator: SG
Sample : CSV41C1606 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
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	C	2,4,6-Trichlorophenol	0.454	0.471	-3.7	97	0.00
38	T	2,4,5-Trichlorophenol	0.432	0.464	-7.4	94	0.00
39	S	2-Fluorobiphenyl	1.354	1.413	-4.4	97	0.00
40	T	2-Chloronaphthalene	1.180	1.201	-1.8	95	0.00
41	T	2-Nitroaniline	0.406	0.467	-15.0	100	0.00
42	T	Dimethylphthalate	1.404	1.467	-4.5	97	0.00
43	T	2,6-Dinitrotoluene	0.301	0.332	-10.3	93	0.00
44	T	Acenaphthylene	1.700	1.781	-4.8	96	0.00
45	T	3-Nitroaniline	0.338	0.377	-11.5	98	0.00
46	C	Acenaphthene	1.101	1.114	-1.2	96	0.00
47	P	2,4-Dinitrophenol	0.171	0.179	-4.7	86	0.00
48	P	4-Nitrophenol	0.169	0.187	-10.7	97	0.01
49	T	Dibenzofuran	1.634	1.678	-2.7	99	0.00
50	T	2,4-Dinitrotoluene	0.400	0.444	-11.0	94	0.00
51	T	Diethylphthalate	1.303	1.372	-5.3	98	0.00
52	T	Fluorene	1.261	1.355	-7.5	102	0.00
53	T	4-Chlorophenyl-phenylether	0.646	0.682	-5.6	102	0.00
54	T	4-Nitroaniline	0.336	0.392	-16.7	101	0.00
55	T	4,6-Dinitro-2-methylphenol	0.235	0.279	-18.7	99	0.00
56	C	N-Nitrosodiphenylamine	0.875	0.939	-7.3	101	0.00
57	T	Azobenzene	1.358	1.424	-4.9	100	0.00
58	S	2,4,6-Tribromophenol	0.208	0.226	-8.7	101	0.00
59	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
60	T	4-Bromophenyl-phenylether	0.253	0.276	-9.1	101	0.00
61	T	Hexachlorobenzene	0.284	0.306	-7.7	102	0.00
62	C	Pentachlorophenol	0.182	0.208	-14.3	101	0.00
63	T	Phenanthrene	1.186	1.240	-4.6	99	0.00
64	T	Anthracene	1.132	1.217	-7.5	101	0.00
65	T	Carbazole	1.032	1.183	-14.6	107	0.00
66	T	Di-n-butylphthalate	1.212	1.335	-10.1	95	0.00
67	C	Fluoranthene	0.985	1.105	-12.2	102	0.00
68	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
69	T	Benzidine	0.000	0.000#	0.0	0#	0.00
70	T	Pyrene	1.471	1.447	1.6	100	0.00
71	S	Terphenyl-d14	0.865	0.896	-3.6	105	0.00
72	T	Butylbenzylphthalate	0.557	0.627	-12.6	105	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH368.D
Acq On : 30 Mar 2006 11:04
Sample : CSV41C1606
Misc :
MS Integration Params: RTEINT.P

Vial: 3
Operator: SG
Inst : TO41
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
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)
73	T	3,3'-Dichlorobenzidine	0.302	0.345	-14.2	103	0.00
74	T	Benzo(a)anthracene	1.025	1.053	-2.7	105	0.00
75	T	Chrysene	1.093	1.131	-3.5	105	0.00
76	T	bis(2-Ethylhexyl)phthalate	0.666	0.740	-11.1	103	0.00
77	I	Perylene-d12	1.000	1.000	0.0	109	0.00
78	C	Di-n-octylphthalate	1.691	1.703	-0.7	103	0.00
79	T	Benzo(b)fluoranthene	1.538	1.412	8.2	89	0.00
80	T	Benzo(k)fluoranthene	1.356	1.634	-20.5#	137	0.00
81	C	Benzo(a)pyrene	1.314	1.406	-7.0	111	0.00
82	T	Indeno(1,2,3-cd)pyrene	1.073	1.223	-14.0	113	0.00
83	T	Dibenzo(a,h)anthracene	0.855	0.976	-14.2	109	0.00
84	T	Benzo(g,h,i)perylene	0.901	0.965	-7.1	109	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH368.D Vial: 3
Acq On : 30 Mar 2006 11:04 Operator: SG
Sample : CSV41C1606 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 11:21 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.10	152	393178	40.00	ng	0.00
20) Naphthalene-d8	5.58	136	1384313	40.00	ng	0.00
35) Acenaphthene-d10	7.86	164	778063	40.00	ng	0.00
59) Phenanthrene-d10	9.97	188	1166633	40.00	ng	0.00
68) Chrysene-d12	13.33	240	898890	40.00	ng	0.00
77) Perylene-d12	15.03	264	561494	40.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.90	112	617021	52.59	ng	0.00
Spiked Amount 150.000			Recovery = 35.06%			
8) Phenol-d5	3.69	99	795649	53.07	ng	0.00
Spiked Amount 150.000			Recovery = 35.38%			
13) 1,2-Dichlorobenzene-d4	4.26	152	453742	49.86	ng	0.00
Spiked Amount 100.000			Recovery = 49.86%			
21) Nitrobenzene-d5	4.70	82	698822	53.44	ng	0.00
Spiked Amount 100.000			Recovery = 53.44%			
39) 2-Fluorobiphenyl	6.97	172	1373773	52.15	ng	0.00
Spiked Amount 100.000			Recovery = 52.15%			
58) 2,4,6-Tribromophenol	8.97	330	219327	54.21	ng	0.00
Spiked Amount 150.000			Recovery = 36.14%			
71) Terphenyl-d14	12.05	244	1006201	51.74	ng	0.00
Spiked Amount 100.000			Recovery = 51.74%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.08	74	407990	53.41	ng	82
3) Pyridine	2.10	79	697690	52.67	ng	98
5) Phenol	3.71	94	865213	53.48	ng	94
6) Aniline	3.76	93	937460	56.41	ng	99
7) Bis(2-chloroethyl)ether	3.81	93	608456	49.95	ng	93
9) 2-Chlorophenol	3.87	128	696820	53.33	ng	96
10) 1,3-Dichlorobenzene	4.04	146	734453	51.20	ng	98
11) 1,4-Dichlorobenzene	4.12	146	736260	51.04	ng	98
12) Benzyl alcohol	4.23	108	455708	55.09	ng	94
14) 1,2-Dichlorobenzene	4.28	146	686833	51.03	ng	96
15) 2-Methylphenol	4.34	107	568106	54.34	ng	98
16) Bis(2-chloroisopropyl)ethe	4.38	45	1064623	53.41	ng	94
17) 4-Methylphenol	4.52	107	833185	54.11	ng	99
18) N-Nitroso-di-n-propylamine	4.54	70	523211	54.09	ng	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH368.D Vial: 3
Acq On : 30 Mar 2006 11:04 Operator: SG
Sample : CSV41C1606 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 11:21 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
19)	Hexachloroethane	4.64	117	291104	52.85 ng	96
22)	Nitrobenzene	4.73	77	743510	55.40 ng	96
23)	Isophorone	5.02	82	1281695	54.62 ng	98
24)	2-Nitrophenol	5.11	139	411927	56.71 ng	92
25)	2,4-Dimethylphenol	5.16	122	616671	54.86 ng	99
26)	bis(2-Chloroethoxy)methane	5.28	93	787582	51.65 ng	99
27)	Benzoic Acid	5.31	122	358397	45.82 ng	96
28)	2,4-Dichlorophenol	5.40	162	617565	53.94 ng	97
29)	1,2,4-Trichlorobenzene	5.51	180	622207	50.39 ng	93
30)	Naphthalene	5.61	128	1820097	52.23 ng	100
31)	4-Chloroaniline	5.69	127	807667	52.77 ng	96
32)	Hexachlorobutadiene	5.78	225	367235	52.62 ng	97
33)	4-Chloro-3-methylphenol	6.29	107	636849	54.90 ng	95
34)	2-Methylnaphthalene	6.49	142	1195581	51.87 ng	98
36)	Hexachlorocyclopentadiene	6.68	237	226668	46.14 ng	95
37)	2,4,6-Trichlorophenol	6.85	196	458413	51.91 ng	97
38)	2,4,5-Trichlorophenol	6.89	196	451591	53.72 ng	96
40)	2-Chloronaphthalene	7.11	162	1167798	50.89 ng	97
41)	2-Nitroaniline	7.26	65	454360	51.55 ng	97
42)	Dimethylphthalate	7.53	163	1426381	52.24 ng	99
43)	2,6-Dinitrotoluene	7.61	165	322445	49.46 ng	93
44)	Acenaphthylene	7.67	152	1732066	52.39 ng	98
45)	3-Nitroaniline	7.83	138	366923	51.61 ng	98
46)	Acenaphthene	7.91	154	1083879	50.59 ng	96
47)	2,4-Dinitrophenol	7.97	184	173689	42.69 ng	99
48)	4-Nitrophenol	8.07	109	181445	48.98 ng	91
49)	Dibenzofuran	8.16	168	1632459	51.37 ng	98
50)	2,4-Dinitrotoluene	8.16	165	431874	51.89 ng	98
51)	Diethylphthalate	8.52	149	1334362	52.65 ng	98
52)	Fluorene	8.63	166	1317743	53.74 ng	99
53)	4-Chlorophenyl-phenylether	8.65	204	663018	52.76 ng	95
54)	4-Nitroaniline	8.69	138	380948	55.42 ng	92
55)	4,6-Dinitro-2-methylphenol	8.72	198	270949	50.95 ng	76
56)	N-Nitrosodiphenylamine	8.82	169	913456	53.66 ng	97
57)	Azobenzene	8.87	77	1384850	52.44 ng	96
60)	4-Bromophenyl-phenylether	9.35	248	403192	54.68 ng	95
61)	Hexachlorobenzene	9.40	284	446788	54.00 ng	94
62)	Pentachlorophenol	9.69	266	303323	52.66 ng	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH368.D Vial: 3
Acq On : 30 Mar 2006 11:04 Operator: SG
Sample : CSV41C1606 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 11:21 2006 Quant Results File: SV41C16.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

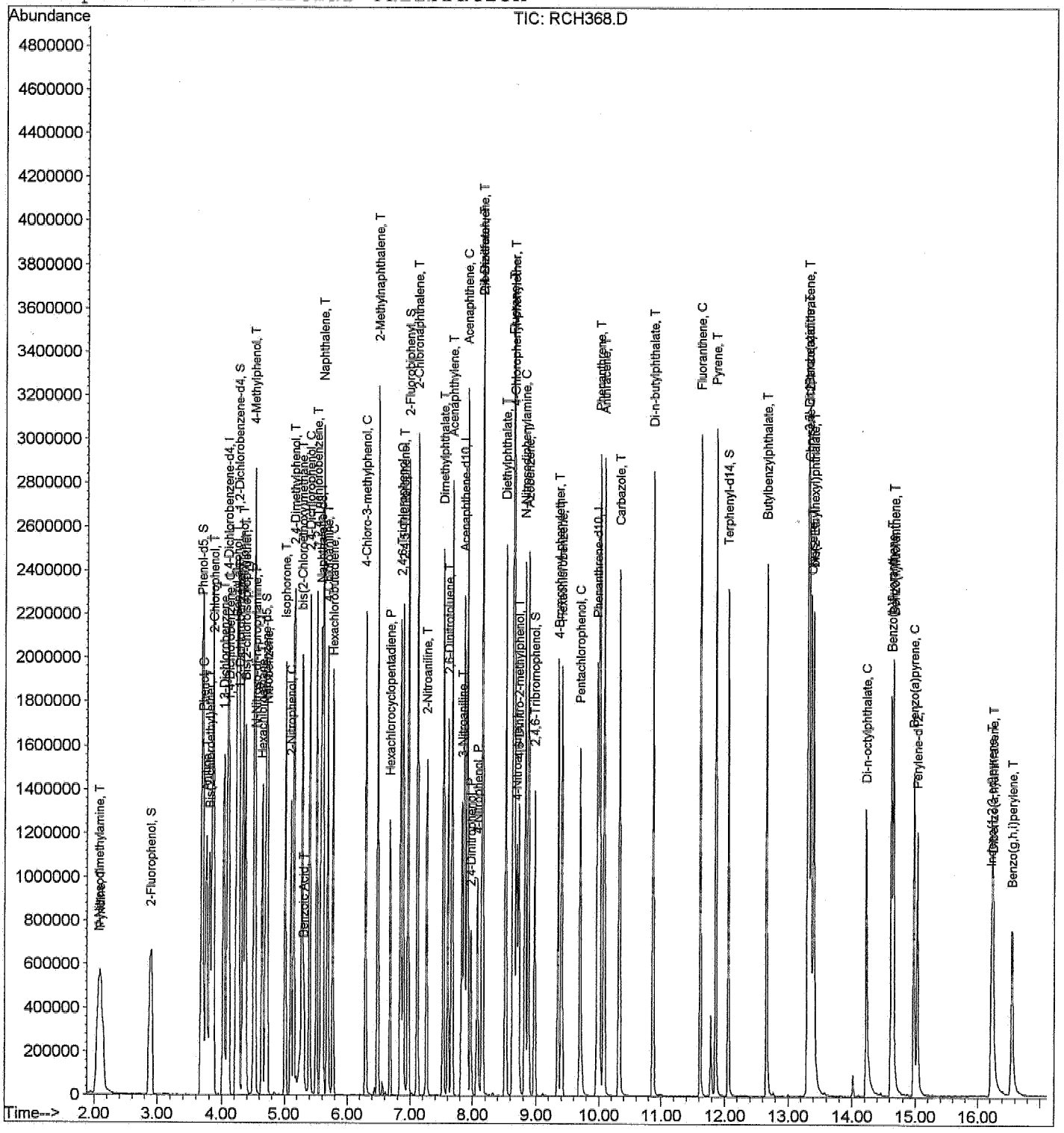
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) Phenanthrene	10.01	178	1808349	52.30	ng	98
64) Anthracene	10.08	178	1774814	53.77	ng	99
65) Carbazole	10.32	167	1724890	57.32	ng	98
66) Di-n-butylphthalate	10.87	149	1946800	55.08	ng	99
67) Fluoranthene	11.62	202	1610996	56.08	ng	98
70) Pyrene	11.86	202	1626048	49.19	ng	97
72) Butylbenzylphthalate	12.66	149	704752	51.44	ng	94
73) 3,3'-Dichlorobenzidine	13.31	252	387571	50.23	ng	99
74) Benzo(a)anthracene	13.32	228	1183455	51.38	ng	99
75) Chrysene	13.37	228	1270781	51.72	ng	98
76) bis(2-Ethylhexyl)phthalate	13.40	149	831602	51.52	ng	99
78) Di-n-octylphthalate	14.23	149	1195624	47.51	ng	99
79) Benzo(b)fluoranthene	14.62	252	990781	45.90	ng	97
80) Benzo(k)fluoranthene	14.65	252	1146855	60.24	ng	99
81) Benzo(a)pyrene	14.97	252	986492	53.47	ng	96
82) Indeno(1,2,3-cd)pyrene	16.22	276	858439	57.01	ng	95
83) Dibenzo(a,h)anthracene	16.25	278	685237	53.48	ng	98
84) Benzo(g,h,i)perylene	16.55	276	677338	53.53	ng	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH368.D Vial: 3
Acq On : 30 Mar 2006 11:04 Operator: SG
Sample : CSV41C1606 Inst : TO41
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 11:21 2006 Quant Results File: SV41C16.RES

Method : C:\HPCHEM\1\METHODS\SV41C16.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 17:22:53 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH369.D Vial: 4
Acq On : 30 Mar 2006 11:43 Operator: SG
Sample : CSV41C16B06 Inst : TO41
Misc : OCTACHLOROSTYRENE- 50 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Phenanthrene-d10	40.000	40.000	0.0	105	0.00
2	T	Octachlorostyrene	50.000	58.231	-16.5	114	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH369.D Vial: 4
Acq On : 30 Mar 2006 11:43 Operator: SG
Sample : CSV41C16B06 Inst : TO41
Misc : OCTACHLOROSTYRENE- 50 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Phenanthrene-d10	1.000	1.000	0.0	105	0.00
2	T	Octachlorostyrene	0.077	0.089	-15.6	114	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\06C30\RCH369.D Vial: 4
Acq On : 30 Mar 2006 11:43 Operator: SG
Sample : CSV41C16B06 Inst : TO41
Misc : OCTACHLOROSTYRENE- 50 PPM Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 12:05 2006 Quant Results File: SV41C16B.RES

Quant Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration
DataAcq Meth : SV41C16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Phenanthrene-d10	9.97	188	1188418	40.00	ng	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Octachlorostyrene	11.41	308	132562	58.23	ng	92

(#) = qualifier out of range (m) = manual integration

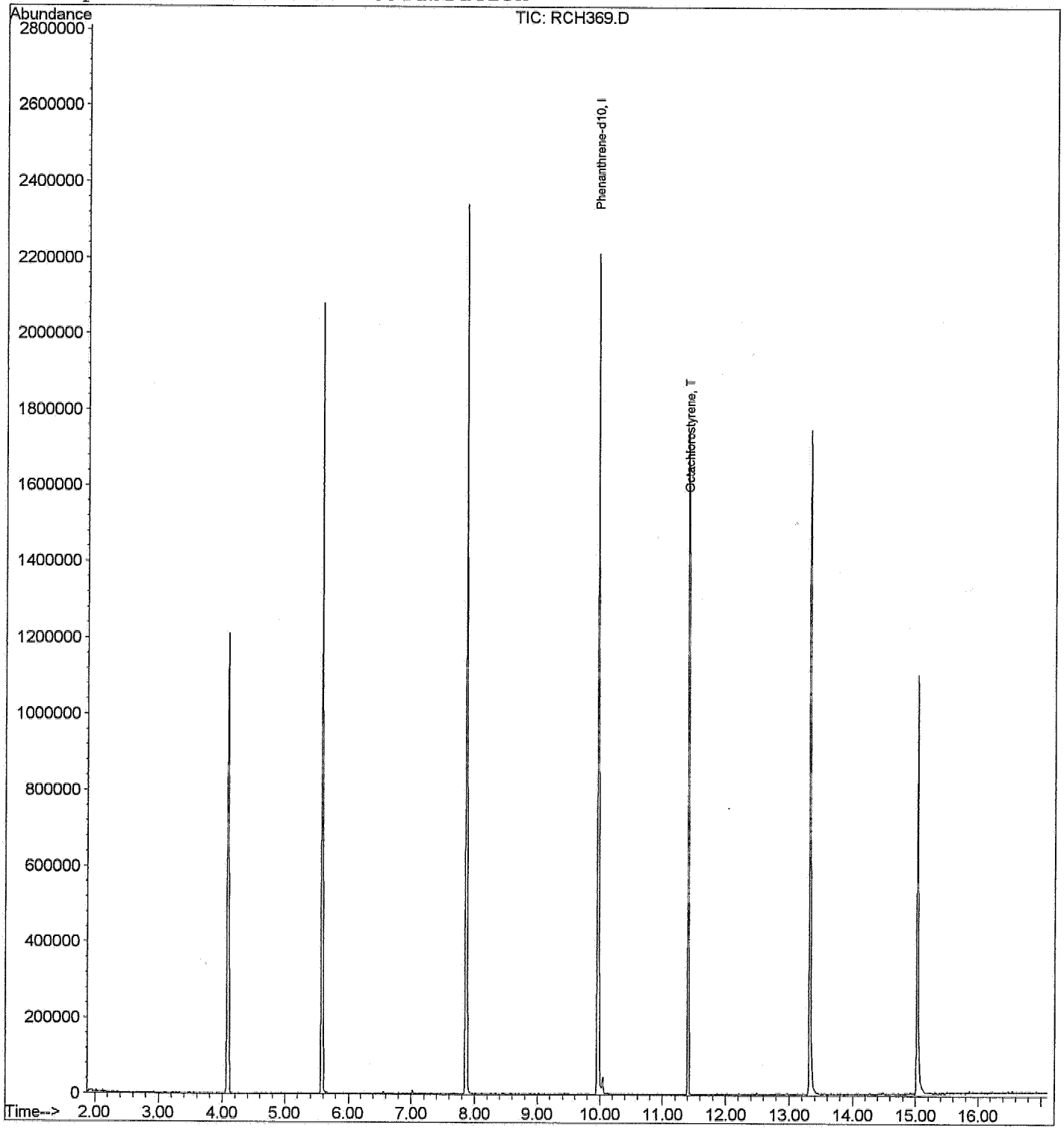
Quantitation Report

Data File : C:\HPCHEM\1\DATA\06C30\RCH369.D
Acq On : 30 Mar 2006 11:43
Sample : CSV41C16B06
Misc : OCTACHLOROSTYRENE- 50 PPM
MS Integration Params: RTEINT.P
Quant Time: Mar 30 12:05 2006

Vial: 4
Operator: SG
Inst : TO41
Multiplr: 1.00

Quant Results File: SV41C16B.RES

Method : C:\HPCHEM\1\METHODS\SV41C16B.M (RTE Integrator)
Title : METHOD 8270C
Last Update : Fri Mar 17 18:15:59 2006
Response via : Initial Calibration



ANALYTICAL LOG

ANALYSIS RUN LOG FOR SEMIVOLATILES

SOP ☒ EMAX-8270 Rev. No. 2 ☐ EMAX-8270SIM Rev. No. 0 ☐ EMAX-CLPSVOA ☐ EMAX-M8270SIM Rev. No. 1 ☐ Book #A41- 013

Method File: SV41C16 / SV41C16A / SV41C16B Tune File: DFTPP Start Date/Time: 3/16/06 11:12 End Date/Time: 3/16/06 22:52

ANALYTICAL BATCH SV41C16_5

Preparative Batch	Data File Name	Run ID	DF	Matrix S	Matrix W	Notes
	RCH 183	IB41C1601				
	184	DFT41C1601				
NA	185	SV41C16 1	NA			5ppm, 8270c
	186	2				10ppm
	187	3				20ppm
	188	4				40ppm
	189	5				50ppm
	190	6				80ppm
	191	7				100ppm
	192	8				120ppm
	193	9				160ppm
	194	ISV41C16 1				2nd source - 50ppm
	195	ISV41C16 2				our Reevl
NA	RCH 196	SV41C16A 1				5ppm, benzidine
	197	2				10ppm
	198	3				50ppm
	199	4				100ppm
	200	5				120ppm
	201	6				160ppm
	202	ISV41C16A 1				2nd source - 50ppm
	203	ISV41C16A 2				our Record
NA	RCH 204	SV41C16B 1				5ppm, odachlorostyrene
	205	2				10ppm
	206	3				40ppm
	207	4				50ppm
	208	5				100ppm
	209	6				120ppm
	210	7				160ppm
	211	ISV41C16B 1				2nd Source - 50ppm
	212	ISV41C16B2				our Record

Instrument No: 41

INITIAL CALIBRATION REFERENCE

Date	3/16/06
ICAL ID	SV41C16 - SV41C16A - SV41C16B

8270 - benzidine - odachlorostyren

Standards		
Name	ID	Conc. (mg/L)
DFTPP	SS2B-04-21-3	50
DCC (8270)	SS2C-04-75-1	50
INT. STD.	SS2B-04-25-1	2000
ICV 8270)	SS2C-04-74-3	50

Solvent	ID
CH_2Cl_2	45257

DATA FILE	06C16

Electronic Data Archival	
Location	Date
HPCHEM_SVOA/T041	

Comments: Benzidine, DCC (SS2C-04-75-2) 50 ppm
Benzidine, ICV (SS2C-04-75-3) 50ppm
odachlorostyrene, Dcc (SS2C-04-73-1) 50ppm
odachlorostyrene ICV (SS2C-04-73-2) 50ppm

Analyzed By: Su
Date Disposed: NA
Disposed by: NA

This page is checked during data review.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR SEMIVOLATILES

SOP ☒ EMAX-8270 Rev. No. 2 ☐ EMAX-8270SIM Rev. No. 0 ☐ EMAX-CLPSVOA ☐ EMAX-M8270SIM Rev. No. 1 ☐ Book #A41- 013

Method File: SV41C16 SV41C16B SV41C16A Tune File: DFTPP Start Date/Time: 3/30/06 10:35 End Date/Time: 3/30/06 17:36

ANALYTICAL BATCH CSV41C1626

Preparative Batch	Data File Name	Run ID	DF	Matrix S	Matrix W	Notes
	RCH 366	IB41C16 06				
	367	DFT 41 C16 06				
	368	CSV41 C16 06				8270
	369	CSV41C16B 06				octachl. DCC, 50 ppm
	370	CSV41C16A 06				benzidine
SVC03W	371	SVC031 WB	NA		X	
	372	WL				
	373	WC				
	374	06C 204-01				
	375	06C 206-01				
	376	06C239-01				
NA	377	06 13063-15	NA		X	A1 - Test
	378	-15				A2 - Test
	379	06 13102-03				A1 - Test
	380	-03				A2 - Test
	381	Blank				

SU
3/30/06

Instrument No:	41

INITIAL CALIBRATION REFERENCE	
Date	3/16/06 - 3/16/06 - 3/16/06
ICAL ID	SV41C16 - SV41C16A - SV41C16B

8270 - benzidine - octachlorostyrene

Standards		
Name	ID	Conc. (mg/L)
DFTPP	SS2B-04-29-2	50
DCC 8270	SS2C-04-75-1	50
INT. STD.	SS2B-04-27-3	2000
DCC benzidine	SS2C-04-75-2	50

Solvent	ID	
CH_2Cl_2	45257	

DATA FILE	06C30

Electronic Data Archival	
Location	Date
HPCHEM_SVOA/T041	

Comments:
octachlorostyrene, DCC CSS2C-04-73-1) 50 ppm

Analyzed By: SU
Date Disposed: 3/31/06
Disposed by: SU

This page is checked during data review.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

EXTRACTION LOG

EXTRACTION LOG FOR SEMIVOLATILES

SOP ☐ EMAX-3540 Rev. No.: 0 ☐ EMAX-3510 Rev. No.: 1 ☐ EMAX-3550 Rev. No.: 1 ☐ EMAX-3520 Rev. No.: 2 ☐ EMAX-CLP-SVOA ☐

Matrix: WATER Init.Start Date/Time: 3/27/06 11:00 End Date/Time: 3/28/06 5:00 Final Start Date/Time: 3/28/06 12:00 End Date/Time: 3/29/06 6:00 Book # ESV-030

PREPARATION BATCH: * VC031W

Sample Prep ID	Lab Sample ID	Sonicator Number	Sample Amount (g/ml)	pH	Extract Volume (ml)	Clean-up [G] [F] [A] [C]	Notes
*01	VC 031 - WB	N/A	1000	-	1		
*02	- WL		1000	-	1		
*03	- WC		1000	-	1		
*04	06C204 - 01		1060	7	1		
*05	06C206 - 01		1000	6	1		Brown sol'n.
*06	06C239 - 01		1060	5	1		
*07							
*08							
*09							
*10							
*11							
*12							
*13							ML
*14							3/27/06
*15							
*16							
*17							
*18							
*19							
*20							
*21							
*22							
*23							
*24							★ SPIKE OCTACHLORO Styrene
*25							
*26							
*27							
*28							

Standards	ID	Amount Added (ml)
Surrogate	VS2B-04-24-1	1.0
LCS/MS EACH LOT	VS2B-04-27-2	0.4
LCS★	VS2B-04-26-1	0.4
Reagent	**Lot# / ID**	
CH_2Cl_2	45342	
Na_2SO_4	45045	
H_2SO_4	45105	
NaOH	SPIB-01-307	
Silica Sand		

TUNING

Sonicator #	Reading
	N/A

Concentrator	Water Bath Temperature Setting (°C)	Thermometer Reading (°C)
1	35	35
2		
3		
4		
5		
6		

Comments: Thermometer ID = T_1

Prepared By: JM Witnessed By: JM

Standard Added By: ML

Checked By: ML

Extract Received by: SM 3/29/06 Location: SE03-8

Disposed by: Disposed on:

Clean-up Legend :[G]=GPC [A]=Acid [F]=Florisil [S]=Silica

EMAX LABORATORIES, INC. 1835 W 205th St. Torrance, CA 90501

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 06C204

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C204

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

One (1) water sample was received on 03/23/06 for Semi Volatile Organic analysis by Method 3520C/8270C SIM in accordance with USEPA SW846, 3rd ed.

1. Holding Time

Analytical holding time was met.

2. Tuning and Calibration

Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

Recoveries were within QC limit.

5. Lab Control Sample/Lab Control Sample Duplicate

Recoveries were within QC limit.

6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

7. Sample Analysis

Sample was analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C204
Instrument ID : T-048

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	SVC031WB	1	NA	03/29/0615:39	03/27/0611:00	RCZ444	RCZ053	SVC031W	Method Blank
LCS1W	SVC031WL	8	NA	03/29/0615:58	03/27/0611:00	RCZ445	RCZ053	SVC031W	Lab Control Sample (LCS)
LCD1W	SVC031WC	8	NA	03/29/0616:17	03/27/0611:00	RCZ446	RCZ053	SVC031W	LCS Duplicate
M-120	C204-01	.94	NA	03/29/0616:36	03/27/0611:00	RCZ447	RCZ053	SVC031W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : ENSR	Date Collected: 03/22/06
Project : UPGRADIENT INVESTIGATION, TRONOX	Date Received: 03/23/06
Batch No. : 06C204	Date Extracted: 03/27/06 11:00
Sample ID: M-120	Date Analyzed: 03/29/06 16:36
Lab Samp ID: C204-01	Dilution Factor: .94
Lab File ID: RCZ447	Matrix : WATER
Ext Btch ID: SVC031W	% Moisture : NA
Calib. Ref.: RCZ053	Instrument ID : T-048

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	.19	.094
ACENAPHTHYLENE	ND	.19	.094
ANTHRACENE	ND	.19	.094
BENZO(A)ANTHRACENE	ND	.19	.094
BENZO(A)PYRENE	ND	.19	.094
BENZO(B)FLUORANTHENE	ND	.19	.094
BENZO(K)FLUORANTHENE	ND	.19	.094
BENZO(G,H,I)PERYLENE	ND	.19	.094
DIBENZO(A,H)ANTHRACENE	ND	.19	.094
FLUORANTHENE	ND	.19	.094
FLUORENE	ND	.19	.094
INDENO(1,2,3-CD)PYRENE	ND	.19	.094
NAPHTHALENE	ND	.19	.094
PHENANTHRENE	ND	.19	.094
PYRENE	ND	.19	.094
2-METHYLNAPHTHALENE	ND	.19	.094
HEXACHLOROBENZENE	ND	.94	.19
PENTACHLOROPHENOL	ND	.94	.19
CHRYSENE	ND	.19	.19

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	96	30-130
PHENOL-D5	84	30-150

RL: Reporting Limit

Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C29\RCZ447.D Vial: 7
Acq On : 29 MAR 2006 16:36 Operator: KV
Sample : 06C204-01 Inst : TO48
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 9:47 2006 Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration
DataAcq Meth :

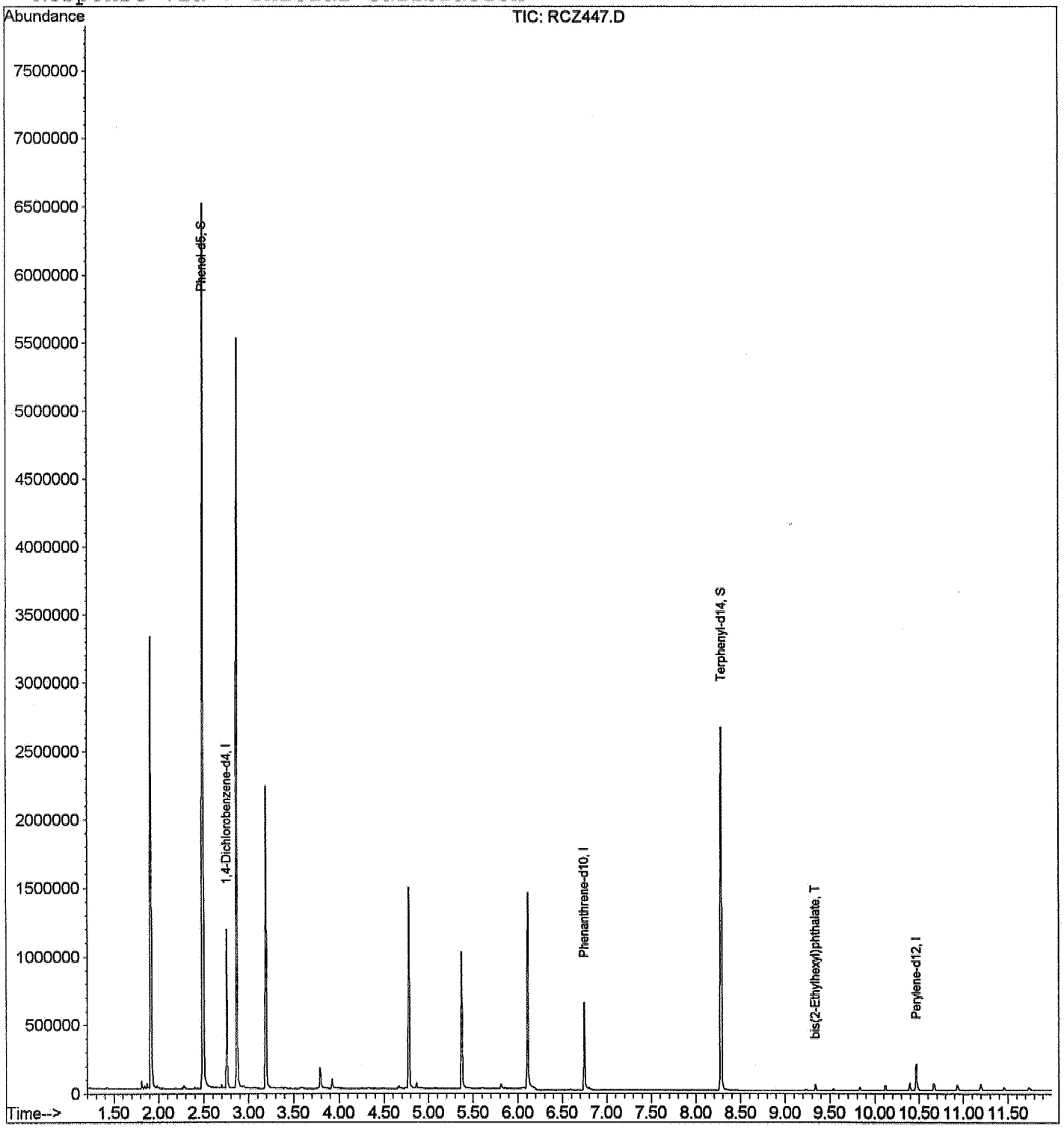
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.76	152	259451	10.00	ng	0.00
20) Phenanthrene-d10	6.75	188	435849	10.00	ng	0.00
28) Perylene-d12	10.48	264	186269	10.00	ng	0.02
System Monitoring Compounds						
3) Phenol-d5	2.49	99	3260401	83.71	ng	0.02
27) Terphenyl-d14	8.29	244	2189502	95.82	ng	0.02
Target Compounds						Qvalue
31) bis(2-Ethylhexyl)phthalate	9.34	149	23460	0.53	ng	83

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\CHEMDATA\06C29\RCZ447.D Vial: 7
Acq On : 29 MAR 2006 16:36 Operator: KV
Sample : 06C204-01 Inst : TO48
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 9:47 2006 Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration



QC SUMMARY

SW 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : ENSR	Date Collected: NA
Project : UPGRADIENT INVESTIGATION, TRONOX	Date Received: 03/27/06
Batch No. : 06C204	Date Extracted: 03/27/06 11:00
Sample ID: MBLK1W	Date Analyzed: 03/29/06 15:39
Lab Samp ID: SVC031WB	Dilution Factor: 1
Lab File ID: RCZ444	Matrix : WATER
Ext Btch ID: SVC031W	% Moisture : NA
Calib. Ref.: RCZ053	Instrument ID : T-048

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	.2	.1
ACENAPHTHYLENE	ND	.2	.1
ANTHRACENE	ND	.2	.1
BENZO(A)ANTHRACENE	ND	.2	.1
BENZO(A)PYRENE	ND	.2	.1
BENZO(B)FLUORANTHENE	ND	.2	.1
BENZO(K)FLUORANTHENE	ND	.2	.1
BENZO(G,H,I)PERYLENE	ND	.2	.1
DIBENZO(A,H)ANTHRACENE	ND	.2	.1
FLUORANTHENE	ND	.2	.1
FLUORENE	ND	.2	.1
INDENO(1,2,3-CD)PYRENE	ND	.2	.1
NAPHTHALENE	ND	.2	.1
PHENANTHRENE	ND	.2	.1
PYRENE	ND	.2	.1
2-METHYLNAPHTHALENE	ND	.2	.1
HEXACHLOROBENZENE	ND	1	.2
PENTACHLOROPHENOL	ND	1	.2
CHRYSENE	ND	.2	.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	81	50-130
PHENOL-D5	92	30-150

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: SW 3520C/8270C SIM

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 8 8
SAMPLE ID: MBLK1W
LAB SAMP ID: SVC031WB SVC031WL SVC031WC
LAB FILE ID: RCZ444 RCZ445 RCZ446
DATE EXTRACTED: 03/27/0611:00 03/27/0611:00 03/27/0611:00 DATE COLLECTED: NA
DATE ANALYZED: 03/29/0615:39 03/29/0615:58 03/29/0616:17 DATE RECEIVED: 03/27/06
PREP. BATCH: SVC031W SVC031W SVC031W
CALIB. REF: RCZ053 RCZ053 RCZ053

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Acenaphthene	ND	80	54.1	68	80	53.3	67	1	20-130	30
Acenaphthylene	ND	80	53	66	80	54.6	68	3	30-140	30
Anthracene	ND	80	58.3	73	80	57.7	72	1	40-130	30
Benzo(a)anthracene	ND	80	72.4	91	80	69.3	87	4	50-130	30
Benzo(a)pyrene	ND	80	69.1	86	80	66.5	83	4	50-130	30
Benzo(b)fluoranthene	ND	80	73.3	92	80	76.1	95	4	50-130	30
Benzo(k)fluoranthene	ND	80	68.6	86	80	54.1	68	24	50-130	30
Benzo(g,h,i)perylene	ND	80	62.2	78	80	58.8	74	6	30-150	30
Dibenzo(a,h)anthracene	ND	80	69	86	80	65.8	82	5	40-140	30
Fluoranthene	ND	80	61	76	80	60.1	75	1	40-130	30
Fluorene	ND	80	56.7	71	80	59.1	74	4	10-150	30
Indeno(1,2,3-cd)pyrene	ND	80	67.6	84	80	63.7	80	6	40-130	30
Naphthalene	ND	80	46	58	80	48.1	60	4	20-130	30
Phenanthrene	ND	80	55.4	69	80	52.6	66	5	40-130	30
Pyrene	ND	80	59.5	74	80	60	75	1	40-130	30
2-Methylnaphthalene	ND	80	48.1	60	80	48.4	60	0	30-150	30
Hexachlorobenzene	ND	80	64.3	80	80	63.9	80	1	20-130	30
Pentachlorophenol	ND	80	57.2	72	80	54.8	69	4	10-140	30
Chrysene	ND	80	70.1	88	80	65.2	82	7	50-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Terphenyl-d14	100	76	76	100	80.4	80	50-130
Phenol-d5	100	98.9	99	100	93.7	94	30-150

QC DATA

Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C29\RCZ444.D
Acq On : 29 MAR 2006 15:39
Sample : SVC031WB
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 30 9:45 2006

Vial: 4
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.76	152	204532	10.00	ng	0.00
20) Phenanthrene-d10	6.75	188	350108	10.00	ng	0.00
28) Perylene-d12	10.48	264	136681	10.00	ng	0.02
System Monitoring Compounds						
3) Phenol-d5	2.49	99	2811502	91.57	ng	0.02
27) Terphenyl-d14	8.28	244	1490848	81.22	ng	0.00

Target Compounds Qvalue

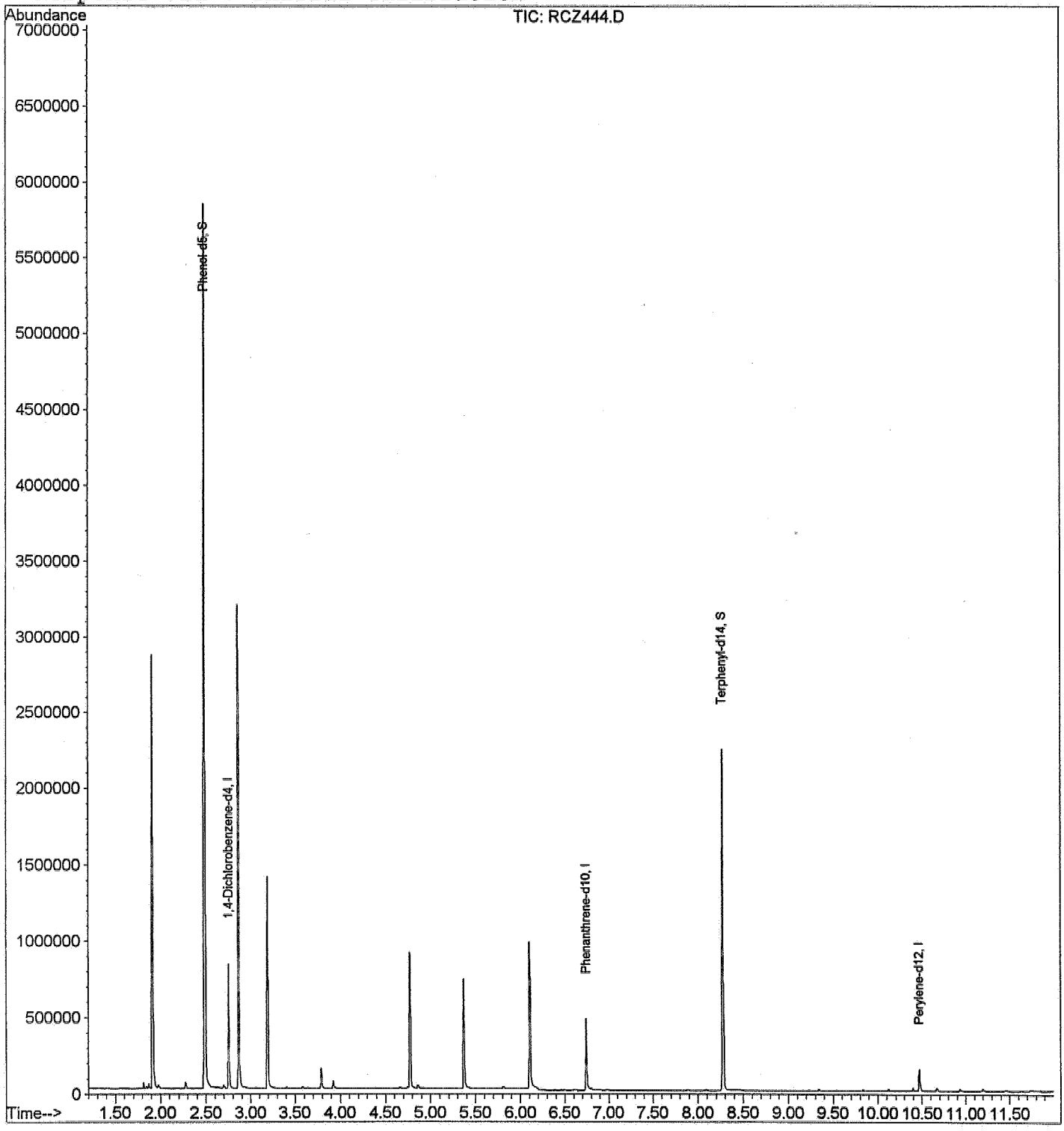
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\CHEMDATA\06C29\RCZ444.D
Acq On : 29 MAR 2006 15:39
Sample : SVC031WB
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 30 9:45 2006

Vial: 4
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C29\RCZ445.D
Acq On : 29 MAR 2006 15:58
Sample : SVC031WL 8X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 30 9:46 2006

Vial: 5
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.76	152	216636	10.00	ng		0.00
20) Phenanthrene-d10	6.75	188	386367	10.00	ng		0.00
28) Perylene-d12	10.48	264	161803	10.00	ng		0.02
System Monitoring Compounds							
3) Phenol-d5	2.48	99	401870	12.36	ng		0.00
27) Terphenyl-d14	8.28	244	192492	9.50	ng		0.00
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	1.31	74	254211	6.66	ng	#	51
4) Phenol	2.50	94	269957	7.31	ng		81
5) Bis(2-chloroethyl)ether	2.58	93	205863	6.90	ng		91
6) 2-Chlorophenol	2.60	128	205490	5.68	ng		44
7) N-Nitroso-di-n-propylamine	3.08	70	121658	8.58	ng	#	69
8) 2,4-Dimethylphenol	3.52	122	125090	5.44	ng		94
9) 2,4-Dichlorophenol	3.67	162	165867	6.96	ng		95
10) Naphthalene	3.81	128	469457	5.75	ng		94
11) 4-Chloro-3-methylphenol	4.32	107	182106	7.87	ng		80
12) 2-Methylnaphthalene	4.43	142	277839	6.02	ng		98
14) 2,4,6-Trichlorophenol	4.69	196	85912	6.55	ng		90
15) 2,4,5-Trichlorophenol	4.72	196	93205	7.18	ng		89
16) Acenaphthylene	5.24	152	436840	6.63	ng		96
17) Acenaphthene	5.41	154	270684	6.76	ng		96
18) Fluorene	5.88	166	312464	7.09	ng		99
19) Azobenzene	6.05	77	377470	7.97	ng		100
21) Hexachlorobenzene	6.39	142	112984	8.04	ng		94
22) Pentachlorophenol	6.58	266	200063	7.15	ng		97
23) Phenanthrene	6.78	178	435675	6.93	ng		93
24) Anthracene	6.83	178	458764	7.29	ng		96
25) Fluoranthene	7.88	202	404929	7.62	ng		87
26) Pyrene	8.09	202	416648	7.44	ng		99
29) Benzo(a)anthracene	9.23	228	303750	9.05	ng		99
30) Chrysene	9.26	228	308010	8.77	ng		95
31) bis(2-Ethylhexyl)phthalate	9.34	149	384748	9.92	ng		91
32) Benzo(b)fluoranthene	10.17	252	264976	9.17	ng		84
33) Benzo(k)fluoranthene	10.19	252	287567	8.58	ng		84
34) Benzo(a)pyrene	10.43	252	254785	8.64	ng		80
35) Indeno(1,2,3-cd)pyrene	11.28	276	297189	8.45	ng		84
36) Dibenzo(a,h)anthracene	11.30	278	223967	8.63	ng		82
37) Benzo(g,h,i)perylene	11.48	276	253857	7.78	ng		80

(#) = qualifier out of range (m) = manual integration

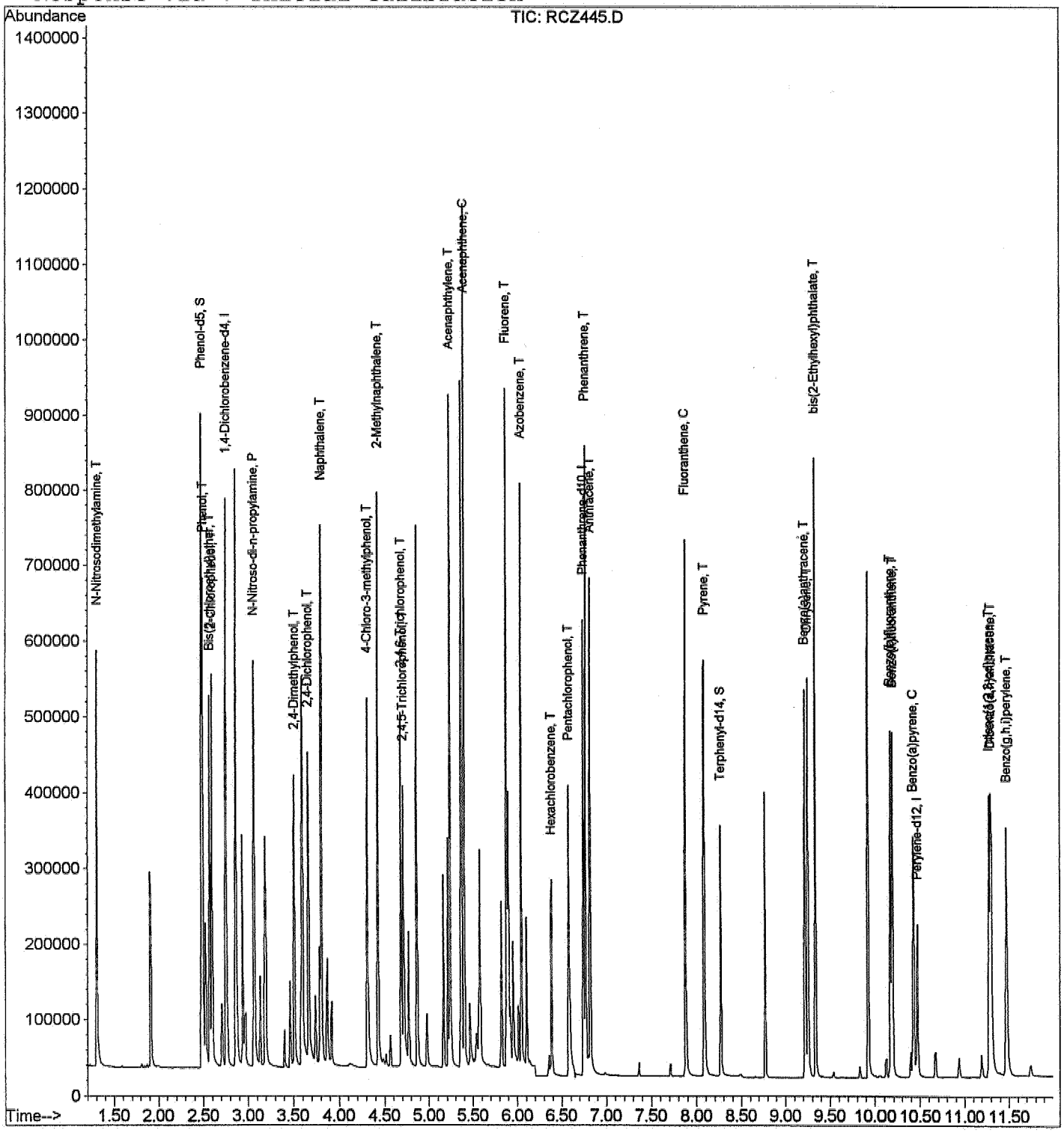
Quantitation Report

Data File : D:\CHEMDATA\06C29\RCZ445.D
Acq On : 29 MAR 2006 15:58
Sample : SVC031WL 8X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 30 9:46 2006

Vial: 5
Operator: KV
Inst : TO48
Multiplr: 1.00

Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C29\RCZ446.D
Acq On : 29 MAR 2006 16:17
Sample : SVC031WC 8X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 30 9:47 2006

Vial: 6
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.76	152	229324	10.00	ng		0.00
20) Phenanthrene-d10	6.75	188	403620	10.00	ng		0.00
28) Perylene-d12	10.48	264	184472	10.00	ng		0.02
System Monitoring Compounds							
3) Phenol-d5	2.49	99	403126	11.71	ng		0.02
27) Terphenyl-d14	8.28	244	212620	10.05	ng		0.00
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	1.31	74	247963	6.13	ng	#	11
4) Phenol	2.51	94	269000	6.88	ng		86
5) Bis(2-chloroethyl)ether	2.58	93	223477	7.07	ng		83
6) 2-Chlorophenol	2.61	128	238075	6.21	ng		91
7) N-Nitroso-di-n-propylamine	3.08	70	126879	8.45	ng	#	49
8) 2,4-Dimethylphenol	3.52	122	135112	5.55	ng		83
9) 2,4-Dichlorophenol	3.68	162	181730	7.20	ng		98
10) Naphthalene	3.82	128	519429	6.01	ng		96
11) 4-Chloro-3-methylphenol	4.32	107	191040	7.80	ng		96
12) 2-Methylnaphthalene	4.43	142	295570	6.05	ng		100
14) 2,4,6-Trichlorophenol	4.69	196	88696	6.39	ng		86
15) 2,4,5-Trichlorophenol	4.73	196	100019	7.28	ng		92
16) Acenaphthylene	5.25	152	476388	6.83	ng		89
17) Acenaphthene	5.41	154	282537	6.67	ng		98
18) Fluorene	5.89	166	344829	7.39	ng		97
19) Azobenzene	6.06	77	383300	7.65	ng		100
21) Hexachlorobenzene	6.39	142	117209	7.98	ng		82
22) Pentachlorophenol	6.58	266	200326	6.85	ng		89
23) Phenanthrene	6.78	178	432249	6.58	ng		99
24) Anthracene	6.83	178	474400	7.22	ng		99
25) Fluoranthene	7.88	202	416968	7.52	ng		92
26) Pyrene	8.09	202	438623	7.50	ng		92
29) Benzo(a)anthracene	9.23	228	331550	8.67	ng		96
30) Chrysene	9.26	228	326473	8.15	ng		93
31) bis(2-Ethylhexyl)phthalate	9.35	149	411038	9.30	ng		99
32) Benzo(b)fluoranthene	10.17	252	313486	9.51	ng		91
33) Benzo(k)fluoranthene	10.19	252	258371	6.76	ng		93
34) Benzo(a)pyrene	10.43	252	279645	8.31	ng		76
35) Indeno(1,2,3-cd)pyrene	11.29	276	319387	7.96	ng		82
36) Dibenzo(a,h)anthracene	11.31	278	243286	8.22	ng		80
37) Benzo(g,h,i)perylene	11.48	276	273718	7.36	ng		78

(#) = qualifier out of range (m) = manual integration

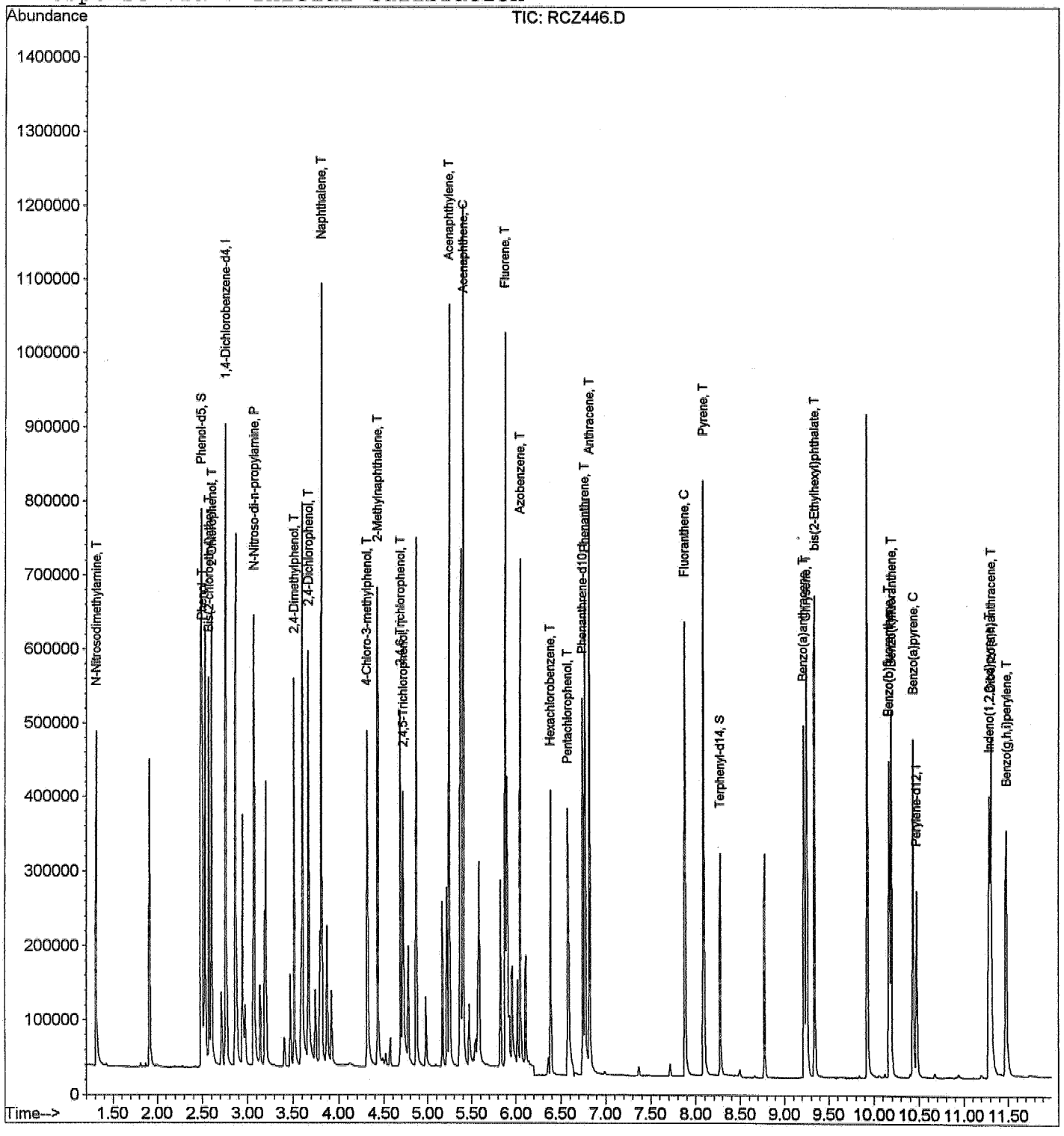
Quantitation Report

Data File : D:\CHEMDATA\06C29\RCZ446.D
Acq On : 29 MAR 2006 16:17
Sample : SVC031WC 8X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 30 9:47 2006

Vial: 6
Operator: KV
Inst : TO48
Multiplr: 1.00

Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration



INITIAL CALIBRATIONS

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCZ047
Instrument ID: T-048

Project: UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C204
DFTPP Injection Date: 03/02/06
DFTPP Injection Time: 19:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.85
68	Less than 2% of mass 69	0.15(0.3)1
69	Relative abundance of mass 198	46.39
70	Less than 2.0% of mass 69	0.22(0.5)1
127	40.0 - 60.0% of mass 198	51.93
197	Less than 1.0% of mass 198	0.78
198	Base Peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	7.18
275	10.0 - 30.0% of mass 198	18.76
365	Greater than 1.00% of mass 198	1.62
441	Present, but less than mass 443	14.92
442	Greater than 40.0% of mass 198	92.34
443	17.0 - 23.0% of mass 442	16.01(17.3)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
1	SSTD0.15	SV48C021	RCZ048	03/02/06	19:43
2	SSTD0.5	SV48C022	RCZ049	03/02/06	20:02
3	SSTD01	SV48C023	RCZ050	03/02/06	20:21
4	SSTD02	SV48C024	RCZ051	03/02/06	20:40
5	SSTD05	SV48C025	RCZ052	03/02/06	20:59
6	SSTD010	SV48C026	RCZ053	03/02/06	21:18
7	SSTD020	SV48C027	RCZ054	03/02/06	21:37
8	SSTD040	SV48C028	RCZ055	03/02/06	21:57
9	SSTD080	SV48C029	RCZ056	03/02/06	22:16
10	SSTD100	SV48C0210	RCZ057	03/02/06	22:35
11	SSTD010	ISV48C021	RCZ058	03/02/06	22:54

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :TO48
Beginning DateTime :03/02/06 19:43
Spike Units :PPM
IC File :RCZ053

Column Spec :ZB-5MS ID :0.18MM
Ending DateTime :03/02/06 22:35
HPChem Method :SV48C02

IDX	Parameters	.15 19:43 RCZ048	.5 20:02 RCZ049	1 20:21 RCZ050	2 20:40 RCZ051	5 20:59 RCZ052	10 21:18 RCZ053	20 21:37 RCZ054	40 21:57 RCZ055	80 22:16 RCZ056	100 22:35 RCZ057	Av_RRF	%_RSD	Av_Rt_M
1	1,4-Dichlorobenzene-d4	1	1	1	1	1	1	1	1	1	1	1	0	2.7525
2	N-Nitrosodimethylamine	1.600	1.904	1.753	1.843	1.787	1.722	1.731	------	------	------	1.763	5.50	1.2917
3	Phenol-d5	1.524	1.463	1.521	1.480	1.611	1.593	1.578	1.314	1.419	1.509	1.501	5.92	2.4742
4	Phenol	1.706	1.621	1.671	1.637	1.793	1.854	1.653	------	------	------	1.705	5.10	2.4881
5	Bis(2-chloroethyl)ether	1.333	1.431	1.310	1.382	1.352	1.362	1.473	------	------	------	1.378	4.14	2.5679
6	2-Chlorophenol	1.589	1.608	1.664	1.577	1.727	1.766	1.767	------	------	------	1.671	4.94	2.5976
7	N-Nitroso-di-n-propylamine	0.661	0.632	0.600	0.642	0.667	0.686	0.693	------	------	------	0.655	4.97	3.0691
8	2,4-Dimethylphenol	1.103	1.139	1.059	1.033	1.075	1.004	1.019	------	------	------	1.062	4.54	3.5071
9	2,4-Dichlorophenol	1.186	1.018	1.070	1.033	1.103	1.138	1.155	------	------	------	1.100	5.75	3.6643
10	Naphthalene	3.878	3.713	3.770	3.736	3.797	3.717	3.752	------	------	------	3.766	1.53	3.8095
11	4-Chloro-3-methylphenol	1.196	1.028	1.050	0.998	1.102	1.074	1.028	------	------	------	1.068	6.15	4.3071
12	2-Methylnaphthalene	2.213	2.131	2.085	1.991	2.160	2.151	2.189	------	------	------	2.131	3.48	4.4321
13	1-Methylnaphthalene	1.914	1.833	1.882	1.813	1.925	1.782	1.753	------	------	------	1.843	3.58	4.5155
14	2,4,6-Trichlorophenol	0.640	0.551	0.613	0.564	0.664	0.611	0.595	------	------	------	0.605	6.57	4.6821
15	2,4,5-Trichlorophenol	0.681	0.548	0.582	0.529	0.630	0.611	0.613	------	------	------	0.599	8.56	4.7071
16	Acenaphthylene	3.599	2.950	2.975	2.807	3.062	2.984	2.914	------	------	------	3.041	8.47	5.2405
17	Acenaphthene	2.435	1.795	1.735	1.731	1.760	1.711	1.771	------	------	------	1.848	14.08	5.4047
18	Fluorene	2.469	1.907	1.987	1.919	2.069	1.975	1.913	------	------	------	2.034	9.84	5.8821
19	Azobenzene	2.558	1.982	2.108	2.083	2.233	2.222	2.112	------	------	------	2.185	8.47	6.0500
20	Phenanthrene-d10	1	1	1	1	1	1	1	1	1	1	1	0	6.7434
21	Hexachlorobenzene	0.467	0.338	0.350	0.350	0.356	0.354	0.332	------	------	------	0.364	12.70	6.3821
22	Pentachlorophenol	------	0.650	0.727	0.698	0.752	0.758	0.759	------	------	------	0.724	5.94	6.5722
23	Phenanthrene	2.089	1.543	1.526	1.547	1.563	1.546	1.582	------	------	------	1.628	12.53	6.7691
24	Anthracene	2.019	1.507	1.556	1.560	1.563	1.603	1.592	------	------	------	1.628	10.73	6.8167
25	Fluoranthene	1.678	1.240	1.266	1.304	1.357	1.346	1.431	------	------	------	1.375	10.76	7.8750
26	Pyrene	1.839	1.334	1.369	1.342	1.438	1.423	1.399	------	------	------	1.449	12.17	8.0821
27	Terphenyl-d14	0.684	0.491	0.474	0.450	0.499	0.510	0.504	0.537	0.572	0.522	0.524	12.43	8.2767
28	Perylene-d12	1	1	1	1	1	1	1	1	1	1	1	0	10.4600
29	Benzo(a)anthracene	2.555	2.048	1.915	1.975	1.976	1.959	2.087	------	------	------	2.074	10.60	9.2179
30	Chrysene	2.533	2.191	2.083	2.146	2.125	2.088	2.034	------	------	------	2.171	7.71	9.2500
31	bis(2-Ethylhexyl)phthalate	2.558	2.102	2.213	2.327	2.526	2.498	2.555	------	------	------	2.397	7.68	9.3536
32	Benzo(b)fluoranthene	1.894	1.569	1.553	1.749	1.799	1.889	2.055	------	------	------	1.787	10.15	10.1571
33	Benzo(k)fluoranthene	2.453	1.987	2.075	2.058	2.082	2.101	1.744	------	------	------	2.072	10.07	10.1809
34	Benzo(a)pyrene	1.929	1.529	1.619	1.880	1.896	1.926	1.982	------	------	------	1.823	9.60	10.4167
35	Indeno(1,2,3-cd)pyrene	2.456	1.762	1.986	2.182	2.175	2.276	2.383	------	------	------	2.174	10.93	11.2691
36	Dibenzo(a,h)anthracene	1.771	1.305	1.440	1.605	1.626	1.697	1.784	------	------	------	1.604	10.98	11.2917
37	Benzo(g,h,i)perylene	2.431	1.683	1.932	2.001	2.000	2.027	2.047	------	------	------	2.017	10.94	11.4583

Ave_%RSD : 8.2 Max_%RSD : 14.1

EMP
3/7/06

Compound List Report TO48

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration
Total Cpnds : 37

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorobenzene-d4	152	2.76	1.000	A	1	A	B
2	T	N-Nitrosodimethylamine	74	1.29	0.468	A	1	A	B
3	S	Phenol-d5	99	2.48	0.897	A	1	A	B
4	T	Phenol	94	2.49	0.903	A	1	A	B
5	T	Bis(2-chloroethyl)ether	93	2.58	0.934	A	1	A	B
6	T	2-Chlorophenol	128	2.60	0.943	A	1	A	B
7	P	N-Nitroso-di-n-propylamine	70	3.08	1.115	A	1	A	B
8	T	2,4-Dimethylphenol	122	3.51	1.272	A	1	A	B
9	T	2,4-Dichlorophenol	162	3.67	1.329	A	1	A	B
10	T	Naphthalene	128	3.82	1.384	A	1	A	B
11	T	4-Chloro-3-methylphenol	107	4.31	1.562	A	1	A	B
12	T	2-Methylnaphthalene	142	4.43	1.606	A	1	A	B
13	T	1-Methylnaphthalene	142	4.53	1.642	A	1	A	B
14	T	2,4,6-Trichlorophenol	196	4.68	1.698	A	1	A	B
15	T	2,4,5-Trichlorophenol	196	4.75	1.722	A	1	A	B
16	T	Acenaphthylene	152	5.24	1.900	A	1	A	B
17	C	Acenaphthene	154	5.41	1.961	A	1	A	B
18	T	Fluorene	166	5.88	2.133	A	1	A	B
19	T	Azobenzene	77	6.05	2.193	A	1	A	B
20	I	Phenanthrene-d10	188	6.74	1.000	A	1	A	B
21	T	Hexachlorobenzene	142	6.38	0.947	A	1	A	B
22	T	Pentachlorophenol	266	6.58	0.975	A	1	A	B
23	T	Phenanthrene	178	6.77	1.004	A	1	A	B
24	T	Anthracene	178	6.82	1.011	A	1	A	B
25	C	Fluoranthene	202	7.88	1.168	A	1	A	B
26	T	Pyrene	202	8.08	1.199	A	1	A	B
27	S	Terphenyl-d14	244	8.28	1.227	A	1	A	B
28	I	Perylene-d12	264	10.46	1.000	A	1	A	B
29	T	Benzo(a)anthracene	228	9.22	0.881	A	1	A	B
30	T	Chrysene	228	9.25	0.884	A	1	A	B
31	T	bis(2-Ethylhexyl)phthalate	149	9.35	0.894	A	1	A	B
32	T	Benzo(b)fluoranthene	252	10.16	0.971	A	1	A	B
33	T	Benzo(k)fluoranthene	252	10.18	0.974	A	1	A	B
34	C	Benzo(a)pyrene	252	10.42	0.996	A	1	A	B
35	T	Indeno(1,2,3-cd)pyrene	276	11.28	1.078	A	1	A	B
36	T	Dibenzo(a,h)anthracene	278	11.29	1.080	A	1	A	B
37	T	Benzo(g,h,i)perylene	276	11.46	1.096	A	1	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

CMP
3/7/06

Quantitation Limit from Lowest Initial Calibration Concentration

Instrument ID :TO48 Column Spec :ZB-5MS ID :0.18MM
Beginning DateTime :03/02/06 19:43 Ending DateTime :03/02/06 22:35
IC File :RCZ053 HPChem Method :SV48C02

WATER Init. Vol. (ml) : 1000 Final Vol. (ml) : 1
SOIL Init. Weight (gm) : 30 Final Vol. (ml) : 1

IDX	Parameters	ON_COL MG/L	WATER UG/L	SOIL MG/KG	R_FILE
1	1,4-Dichlorobenzene-d4	IntSTD	IntSTD	IntSTD	IntSTD
2	N-Nitrosodimethylamine	.15	.15	.005	RCZ048
3	Phenol-d5	.15	.15	.005	RCZ048
4	Phenol	.15	.15	.005	RCZ048
5	Bis(2-chloroethyl)ether	.15	.15	.005	RCZ048
6	2-Chlorophenol	.15	.15	.005	RCZ048
7	N-Nitroso-di-n-propylamine	.15	.15	.005	RCZ048
8	2,4-Dimethylphenol	.15	.15	.005	RCZ048
9	2,4-Dichlorophenol	.15	.15	.005	RCZ048
10	Naphthalene	.15	.15	.005	RCZ048
11	4-Chloro-3-methylphenol	.15	.15	.005	RCZ048
12	2-Methylnaphthalene	.15	.15	.005	RCZ048
13	1-Methylnaphthalene	.15	.15	.005	RCZ048
14	2,4,6-Trichlorophenol	.15	.15	.005	RCZ048
15	2,4,5-Trichlorophenol	.15	.15	.005	RCZ048
16	Acenaphthylene	.15	.15	.005	RCZ048
17	Acenaphthene	.15	.15	.005	RCZ048
18	Fluorene	.15	.15	.005	RCZ048
19	Azobenzene	.15	.15	.005	RCZ048
20	Phenanthrene-d10	IntSTD	IntSTD	IntSTD	IntSTD
21	Hexachlorobenzene	.15	.15	.005	RCZ048
22	Pentachlorophenol	.5	.5	.01667	RCZ049
23	Phenanthrene	.15	.15	.005	RCZ048
24	Anthracene	.15	.15	.005	RCZ048
25	Fluoranthene	.15	.15	.005	RCZ048
26	Pyrene	.15	.15	.005	RCZ048
27	Terphenyl-d14	.15	.15	.005	RCZ048
28	Perylene-d12	IntSTD	IntSTD	IntSTD	IntSTD
29	Benzo(a)anthracene	.15	.15	.005	RCZ048
30	Chrysene	.15	.15	.005	RCZ048
31	bis(2-Ethylhexyl)phthalate	.15	.15	.005	RCZ048
32	Benzo(b)fluoranthene	.15	.15	.005	RCZ048
33	Benzo(k)fluoranthene	.15	.15	.005	RCZ048
34	Benzo(a)pyrene	.15	.15	.005	RCZ048
35	Indeno(1,2,3-cd)pyrene	.15	.15	.005	RCZ048
36	Dibenzo(a,h)anthracene	.15	.15	.005	RCZ048
37	Benzo(g,h,i)perylene	.15	.15	.005	RCZ048

KMP
3/7/06

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCZ053
Instrument ID: T-048

Project:ICAL
SDG No.: ICAL
Date Analyzed: 03/02/06
Time Analyzed: 21:18

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	208041	2.76	0	0.00	0	0.00
	UPPER LIMIT	416082	3.26	0	0.50	0	0.50
	LOWER LIMIT	104021	2.26	0	-0.50	0	-0.50
	SAMPLE ID						
1	SV48C021	220099	2.75	0	0.00	0	0.00
2	SV48C022	248672	2.74	0	0.00	0	0.00
3	SV48C023	201803	2.76	0	0.00	0	0.00
4	SV48C024	206670	2.75	0	0.00	0	0.00
5	SV48C025	206517	2.75	0	0.00	0	0.00
6	SV48C027	222226	2.76	0	0.00	0	0.00
7	SV48C028	221037	2.76	0	0.00	0	0.00
8	SV48C029	220841	2.75	0	0.00	0	0.00
9	SV48C0210	221942	2.75	0	0.00	0	0.00
10	ISV48C021	215005	2.75	0	0.00	0	0.00

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal satndard 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 used to flag internal standard area values with an asterisk
* Values outside of QC limits.

KMP 3/7/06

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCZ053
Instrument ID: T-048

Project:ICAL
SDG No.: ICAL
Date Analyzed: 03/02/06
Time Analyzed: 21:18

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	334014	6.74	0	0.00	157707	10.46
UPPER LIMIT	668028	7.24	0	0.50	315414	10.96
LOWER LIMIT	167007	6.24	0	-0.50	78854	9.96
SAMPLE ID						
1 SV48C021	364019	6.74	0	0.00	188553	10.47
2 SV48C022	397556	6.74	0	0.00	169055	10.45
3 SV48C023	322849	6.75	0	0.00	148440	10.47
4 SV48C024	332000	6.74	0	0.00	145927	10.46
5 SV48C025	341387	6.74	0	0.00	158974	10.46
6 SV48C027	363411	6.75	0	0.00	174729	10.47
7 SV48C028	347756	6.74	0	0.00	155036	10.46
8 SV48C029	356660	6.74	0	0.00	163971	10.46
9 SV48C0210	344139	6.74	0	0.00	166962	10.46
10 ISV48C021	366466	6.75	0	0.00	176867	10.46

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

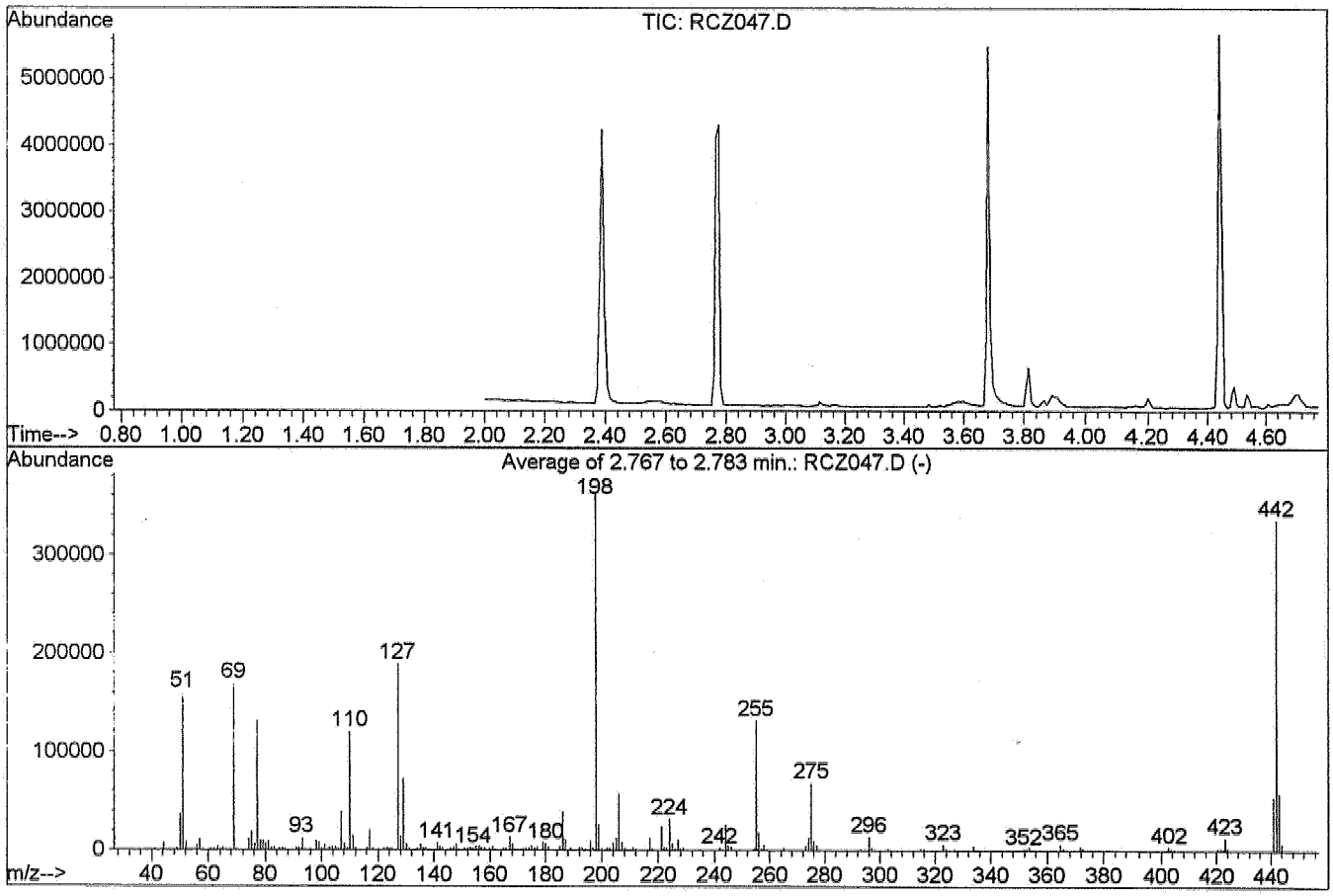
AREA UPPER LIMIT = +100% of internal satndard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

DFTPP

Data File : D:\CHEMDATA\06C02\RCZ047.D
Acq On : 2 MAR 2006 19:31
Sample : DFT48C0201
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPPSIM.M (RTE Integrator)
Title : DFTPP TUNE 8270C SHIMADZU GCMS-QP5000

Vial: 2
Operator: KV
Inst : TO48
Multiplr: 1.00



AutoFind: Scans 93, 94, 95; Background Corrected with Scan 89

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.8	159512	PASS
68	69	0.00	2	0.3	548	PASS
69	198	0.00	100	46.4	168752	PASS
70	69	0.00	2	0.5	795	PASS
127	198	40	60	51.9	188901	PASS
197	198	0.00	1	0.8	2825	PASS
198	198	100	100	100.0	363768	PASS
199	198	5	9	7.2	26133	PASS
275	198	10	30	18.8	68232	PASS
365	198	1	100	1.6	5897	PASS
441	443	0.01	100	93.2	54259	PASS
442	198	40	100	92.3	335890	PASS
443	442	17	23	17.3	58248	PASS

RCZ047.D DFTPPSIM.M Mon Mar 06 09:51:17 2006 TO48

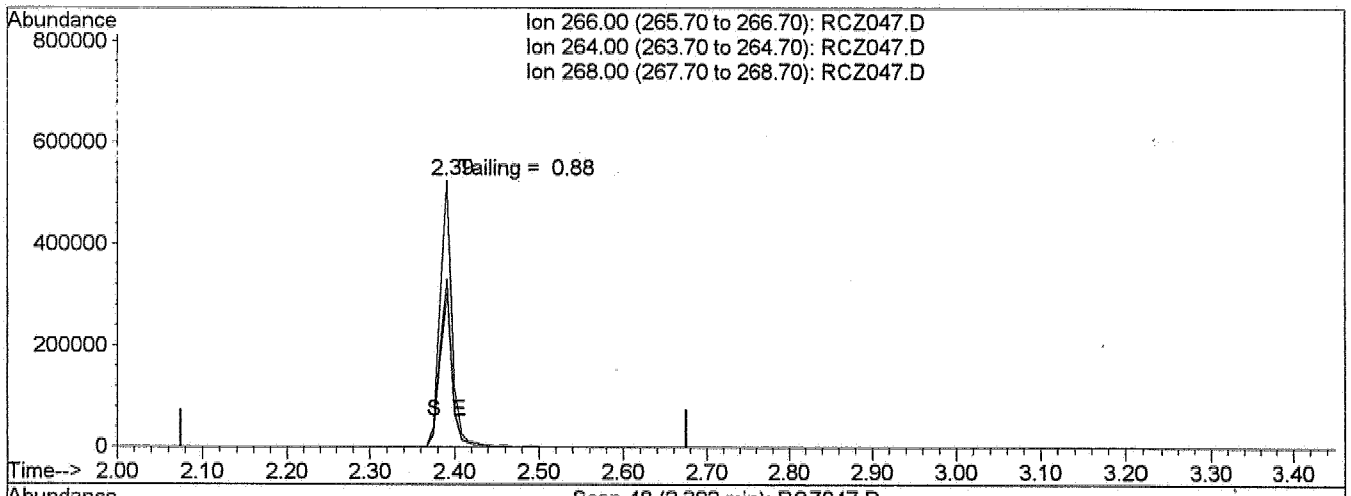
KP 3/7/06

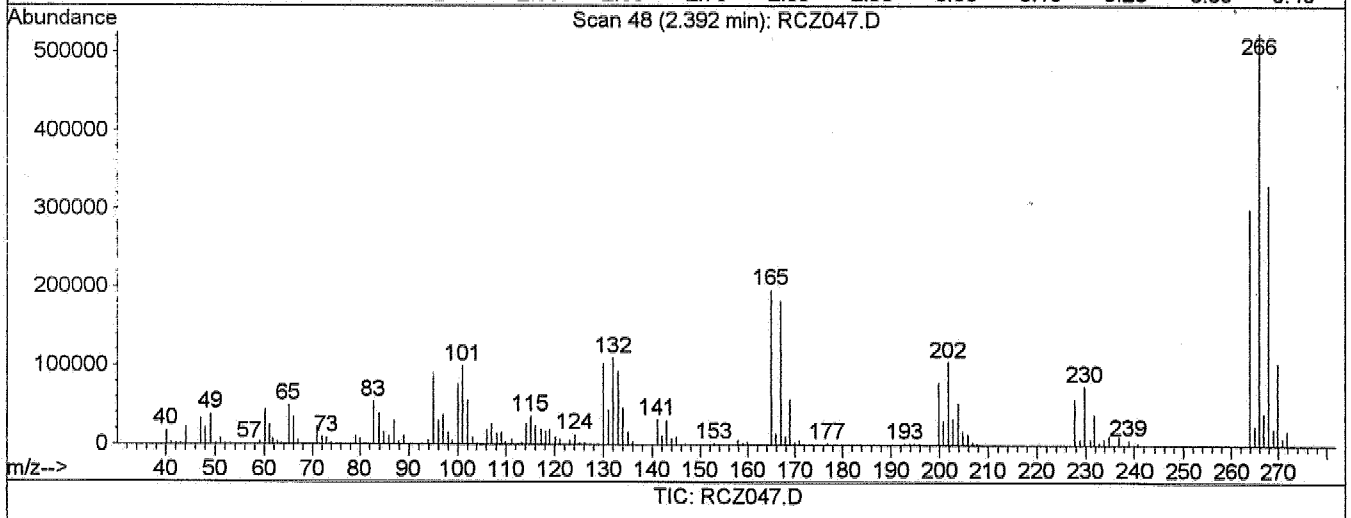
Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ047.D
Acq On : 2 MAR 2006 19:31
Sample : DFT48C0201
Misc :
Quant Method : MarPah2006.p

Vial: 2
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPSIM.M (RTE Integrator)
Title : DFTPP TUNE 8270C SHIMADZU GCMS-QP5000
Last Update : Mon Sep 26 16:25:49 2005
Response via : Single Level Calibration





TIC: RCZ047.D

(1) Pentachlorophenol

2.39min 207.43ng

response 508793

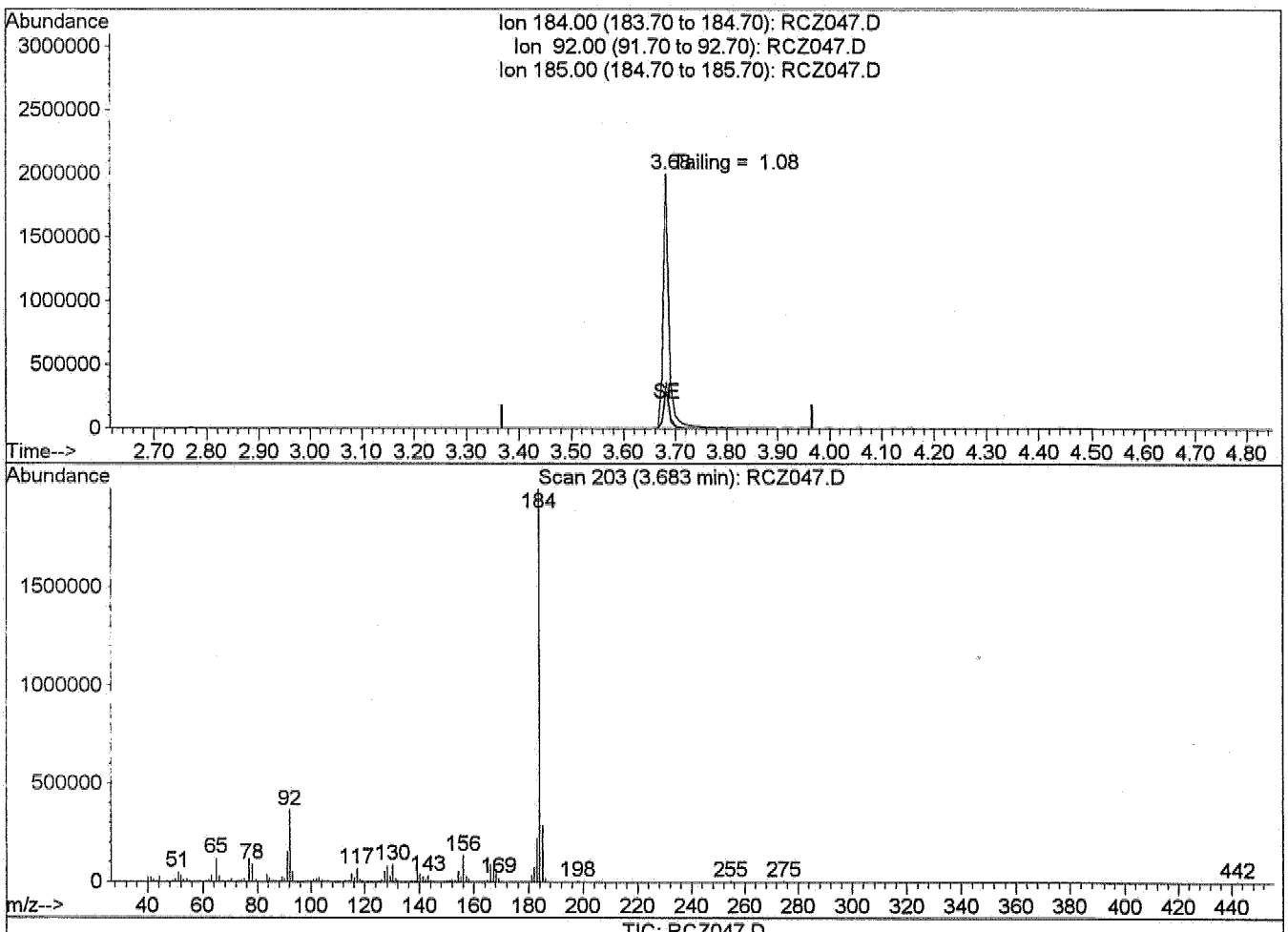
Ion	Exp%	Act%
266.00	100	100
264.00	57.20	57.39
268.00	59.90	63.01
0.00	0.00	0.00

KMP 3/7/06

Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ047.D Vial: 2
Acq On : 2 MAR 2006 19:31 Operator: KV
Sample : DFT48C0201 Inst : TO48
Misc : Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPSIM.M (RTE Integrator)
Title : DFTPP TUNE 8270C SHIMADZU GCMS-QP5000
Last Update : Mon Sep 26 16:25:49 2005
Response via : Single Level Calibration



(3) Benzidine

3.68min 163.18ng

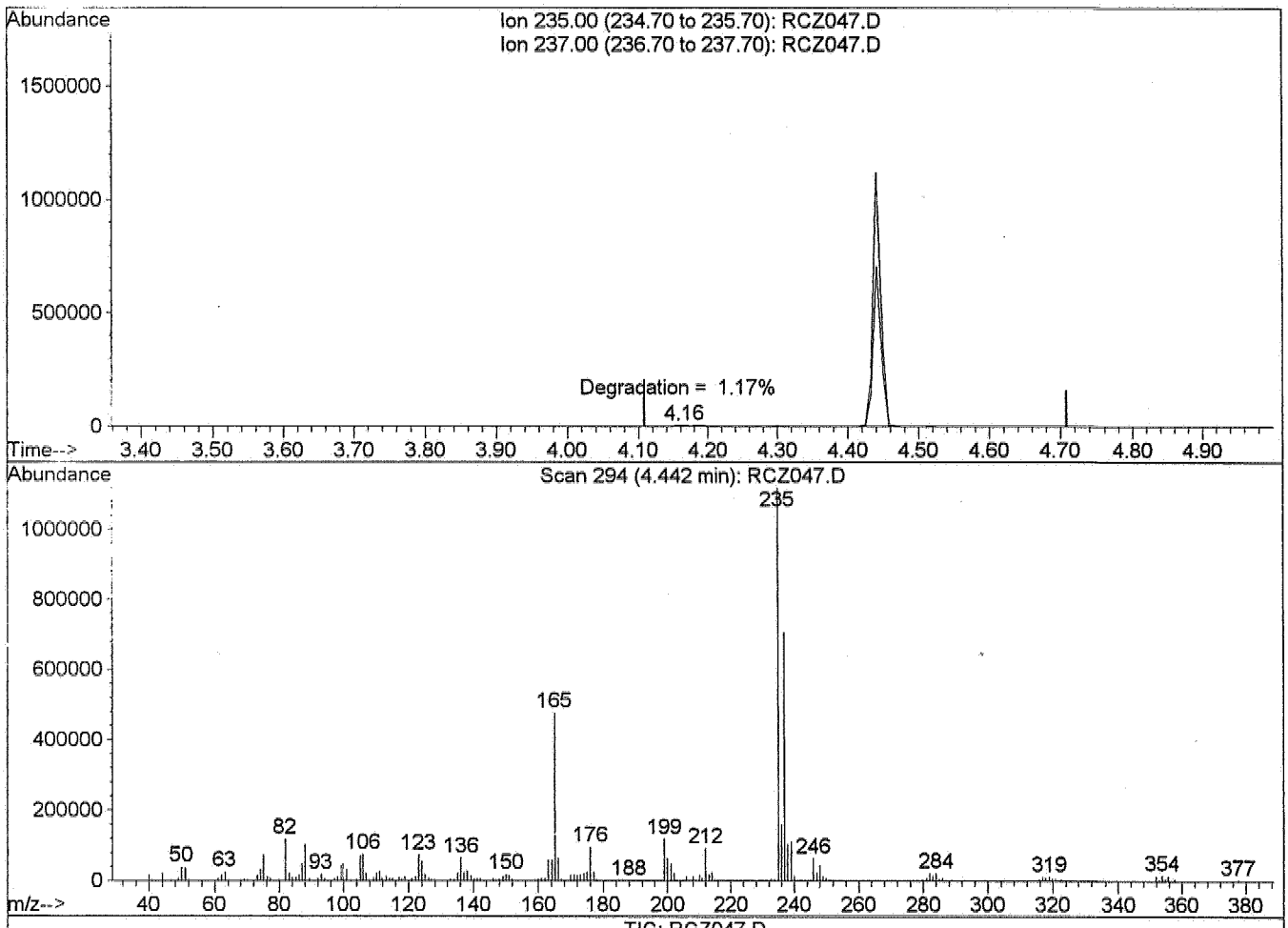
response 1548771

Ion	Exp%	Act%
184.00	100	100
92.00	23.50	18.24
185.00	14.10	14.50
0.00	0.00	0.00

Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ047.D
Acq On : 2 MAR 2006 19:31
Sample : DFT48C0201
Misc :
MSamtEgmetiMarPa2ams9:38t2005.p
Vial: 2
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPSIM.M (RTE Integrator)
Title : DFTPP TUNE 8270C SHIMADZU GCMS-QP5000
Last Update : Mon Sep 26 16:25:49 2005
Response via : Single Level Calibration



TIC: RCZ047.D

(6) DDT

4.44min 212.59ng

response 849639

Ion	Exp%	Act%
235.00	100	100
237.00	65.50	63.00
0.00	0.00	0.00
0.00	0.00	0.00

KVP 3/7/06

Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C02\RCZ048.D Vial: 3
Acq On : 2 MAR 2006 19:43 Operator: KV
Sample : SV48C021 0.15PPM Inst : TO48
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:27 2006 Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:27:02 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.75	152	220099	10.00	ng		0.00
20) Phenanthrene-d10	6.74	188	364019	10.00	ng		0.00
28) Perylene-d12	10.47	264	188553	10.00	ng		0.00
System Monitoring Compounds							
3) Phenol-d5	2.48	99	5030	0.14	ng		0.00
27) Terphenyl-d14	8.28	244	3734	0.20	ng		0.00
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	1.30	74	5281	0.14	ng	#	1
4) Phenol	2.49	94	5632	0.14	ng		95
5) Bis(2-chloroethyl)ether	2.57	93	4402	0.15	ng		92
6) 2-Chlorophenol	2.60	128	5247	0.13	ng		88
7) N-Nitroso-di-n-propylamine	3.07	70	2183	0.14	ng		92
8) 2,4-Dimethylphenol	3.51	122	3642	0.16	ng		87
9) 2,4-Dichlorophenol	3.67	162	3916	0.16	ng		95
10) Naphthalene	3.81	128	12803	0.16	ng		78
11) 4-Chloro-3-methylphenol	4.31	107	3948	0.17	ng		97
12) 2-Methylnaphthalene	4.43	142	7306	0.15	ng		99
13) 1-Methylnaphthalene	4.52	142	6318	0.16	ng		96
14) 2,4,6-Trichlorophenol	4.68	196	2113	0.16	ng		94
15) 2,4,5-Trichlorophenol	4.71	196	2248	0.17	ng		99
16) Acenaphthylene	5.24	152	11881	0.18	ng		83
17) Acenaphthene	5.40	154	8039	0.21	ng		95
18) Fluorene	5.88	166	8152	0.19	ng		99
19) Azobenzene	6.05	77	8444	0.17	ng		87
21) Hexachlorobenzene	6.38	142	2548	0.20	ng	#	64
22) Pentachlorophenol	6.58	266	8779	0.32	ng		86
23) Phenanthrene	6.77	178	11406	0.20	ng		85
24) Anthracene	6.82	178	11022	0.19	ng		84
25) Fluoranthene	7.88	202	9164	0.19	ng		93
26) Pyrene	8.08	202	10042	0.19	ng		84
29) Benzo(a)anthracene	9.22	228	7226	0.20	ng		76
30) Chrysene	9.25	228	7165	0.18	ng		80
31) bis(2-Ethylhexyl)phthalate	9.36	149	7234	0.15	ng		48
32) Benzo(b)fluoranthene	10.16	252	5357	0.15	ng		78
33) Benzo(k)fluoranthene	10.18	252	6939	0.18	ng		76
34) Benzo(a)pyrene	10.42	252	5456	0.15	ng		84
35) Indeno(1,2,3-cd)pyrene	11.27	276	6945	0.16	ng		79
36) Dibenzo(a,h)anthracene	11.29	278	5009	0.16	ng		87
37) Benzo(g,h,i)perylene	11.46	276	6877	0.18	ng		96

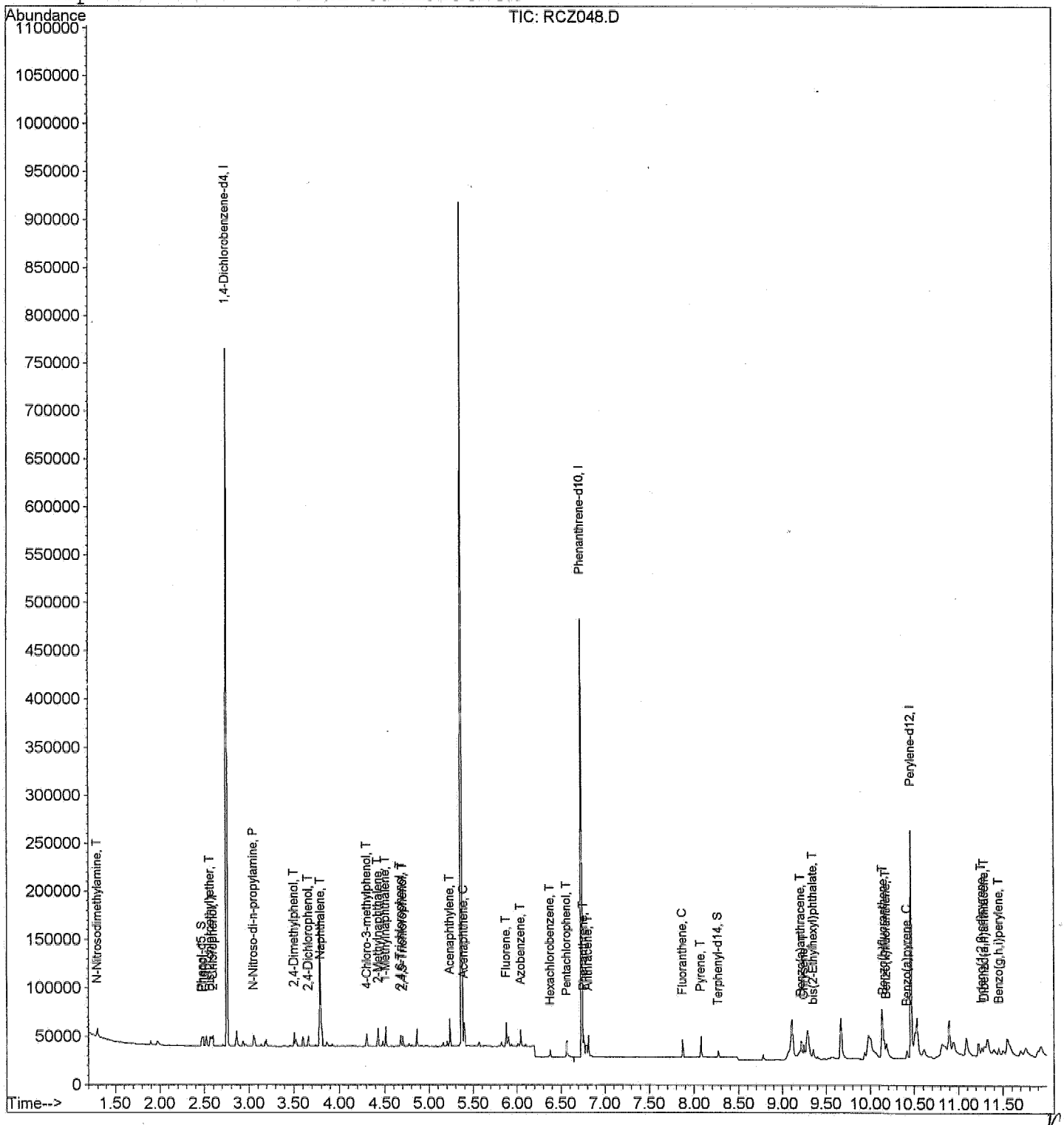
(#) = qualifier out of range (m) = manual integration

VMP 3/14/06

Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ048.D Vial: 3
Acq On : 2 MAR 2006 19:43 Operator: KV
Sample : SV48C021 0.15PPM Inst : TO48
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:27 2006 Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:35:33 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C02\RCZ049.D
Acq On : 2 MAR 2006 20:02
Sample : SV48C022 0.5PPM
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:27 2006

Vial: 4
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:27:02 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.74	152	248672	10.00	ng	-0.02
20) Phenanthrene-d10	6.74	188	397556	10.00	ng	0.00
28) Perylene-d12	10.45	264	169055	10.00	ng	0.00
System Monitoring Compounds						
3) Phenol-d5	2.46	99	18195	0.46	ng	-0.02
27) Terphenyl-d14	8.27	244	9766	0.48	ng	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.28	74	23671	0.55	ng	# 1
4) Phenol	2.48	94	20156	0.44	ng	93
5) Bis(2-chloroethyl)ether	2.56	93	17795	0.53	ng	94
6) 2-Chlorophenol	2.59	128	19994	0.46	ng	80
7) N-Nitroso-di-n-propylamine	3.06	70	7856	0.46	ng	92
8) 2,4-Dimethylphenol	3.50	122	14166	0.57	ng	91
9) 2,4-Dichlorophenol	3.66	162	12653	0.45	ng	95
10) Naphthalene	3.80	128	46163	0.50	ng	89
11) 4-Chloro-3-methylphenol	4.30	107	12786	0.48	ng	95
12) 2-Methylnaphthalene	4.43	142	26499	0.50	ng	99
13) 1-Methylnaphthalene	4.51	142	22790	0.51	ng	96
14) 2,4,6-Trichlorophenol	4.68	196	6847	0.45	ng	99
15) 2,4,5-Trichlorophenol	4.70	196	6819	0.45	ng	97
16) Acenaphthylene	5.23	152	36674	0.49	ng	95
17) Acenaphthene	5.40	154	22322	0.52	ng	98
18) Fluorene	5.88	166	23708	0.48	ng	98
19) Azobenzene	6.04	77	24646	0.45	ng	96
21) Hexachlorobenzene	6.38	142	6721	0.48	ng	82
22) Pentachlorophenol	6.57	266	12927	0.43	ng	86
23) Phenanthrene	6.77	178	30666	0.50	ng	98
24) Anthracene	6.81	178	29949	0.47	ng	92
25) Fluoranthene	7.87	202	24657	0.46	ng	97
26) Pyrene	8.07	202	26526	0.47	ng	93
29) Benzo(a)anthracene	9.21	228	17315	0.52	ng	86
30) Chrysene	9.24	228	18519	0.52	ng	94
31) bis(2-Ethylhexyl)phthalate	9.35	149	17771	0.42	ng	98
32) Benzo(b)fluoranthene	10.15	252	13259	0.42	ng	90
33) Benzo(k)fluoranthene	10.18	252	16792	0.47	ng	91
34) Benzo(a)pyrene	10.41	252	12927	0.40	ng	92
35) Indeno(1,2,3-cd)pyrene	11.26	276	14893	0.39	ng	87
36) Dibenzo(a,h)anthracene	11.28	278	11029	0.38	ng	97
37) Benzo(g,h,i)perylene	11.45	276	14225	0.42	ng	100

(#) = qualifier out of range (m) = manual integration

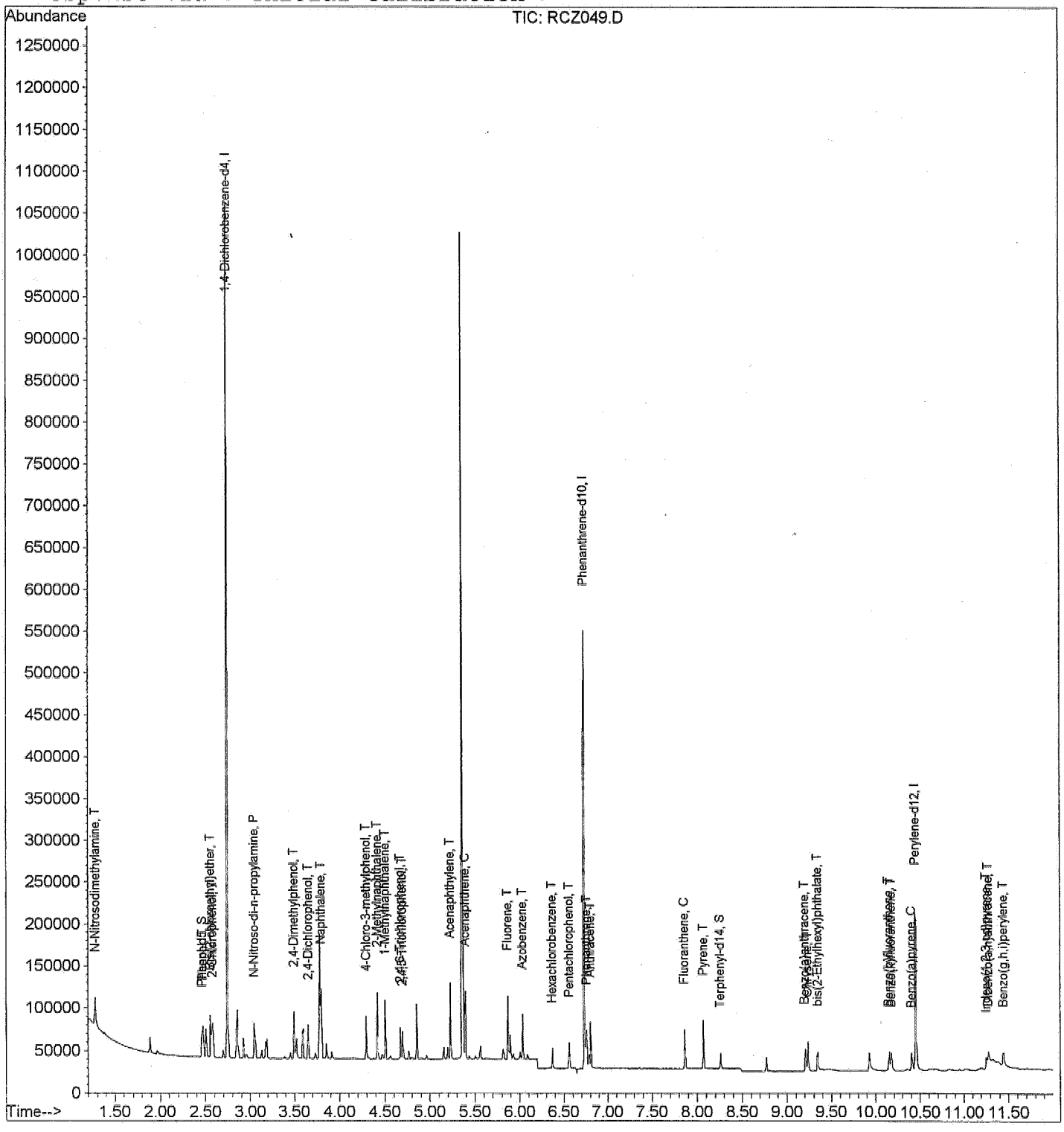
Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ049.D
Acq On : 2 MAR 2006 20:02
Sample : SV48C022 0.5PPM
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:27 2006

Vial: 4
Operator: KV
Inst : TO48
Multiplr: 1.00

Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:35:33 2006
Response via : Initial Calibration



3192

Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C02\RCZ050.D Vial: 5
Acq On : 2 MAR 2006 20:21 Operator: KV
Sample : SV48C023 1PPM Inst : TO48
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:28 2006 Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:27:02 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.76	152	201803	10.00	ng	0.00
20) Phenanthrene-d10	6.75	188	322849	10.00	ng	0.00
28) Perylene-d12	10.47	264	148440	10.00	ng	0.00
System Monitoring Compounds						
3) Phenol-d5	2.48	99	30699	0.95	ng	0.00
27) Terphenyl-d14	8.28	244	15303	0.93	ng	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.29	74	35367	1.02	ng	# 1
4) Phenol	2.49	94	33723	0.90	ng	97
5) Bis(2-chloroethyl)ether	2.57	93	26433	0.96	ng	88
6) 2-Chlorophenol	2.60	128	33580	0.94	ng	87
7) N-Nitroso-di-n-propylamine	3.07	70	12112	0.87	ng	85
8) 2,4-Dimethylphenol	3.51	122	21376	1.06	ng	96
9) 2,4-Dichlorophenol	3.67	162	21590	0.94	ng	98
10) Naphthalene	3.81	128	76083	1.01	ng	93
11) 4-Chloro-3-methylphenol	4.31	107	21186	0.98	ng	94
12) 2-Methylnaphthalene	4.43	142	42073	0.97	ng	99
13) 1-Methylnaphthalene	4.52	142	37982	1.06	ng	97
14) 2,4,6-Trichlorophenol	4.68	196	12367	1.00	ng	96
15) 2,4,5-Trichlorophenol	4.71	196	11739	0.95	ng	100
16) Acenaphthylene	5.24	152	60031	1.00	ng	94
17) Acenaphthene	5.41	154	35018	1.01	ng	99
18) Fluorene	5.88	166	40100	1.01	ng	98
19) Azobenzene	6.05	77	42537	0.95	ng	99
21) Hexachlorobenzene	6.38	142	11303	0.99	ng	91
22) Pentachlorophenol	6.58	266	23461	0.96	ng	92
23) Phenanthrene	6.78	178	49261	0.99	ng	97
24) Anthracene	6.82	178	50230	0.97	ng	94
25) Fluoranthene	7.88	202	40870	0.94	ng	94
26) Pyrene	8.08	202	44211	0.96	ng	93
29) Benzo(a)anthracene	9.23	228	28433	0.98	ng	96
30) Chrysene	9.25	228	30913	1.00	ng	91
31) bis(2-Ethylhexyl)phthalate	9.36	149	32847	0.89	ng	95
32) Benzo(b)fluoranthene	10.16	252	23057	0.82	ng	87
33) Benzo(k)fluoranthene	10.18	252	30805	0.99	ng	93
34) Benzo(a)pyrene	10.42	252	24034	0.84	ng	92
35) Indeno(1,2,3-cd)pyrene	11.28	276	29473	0.87	ng	94
36) Dibenzo(a,h)anthracene	11.29	278	21368	0.85	ng	92
37) Benzo(g,h,i)perylene	11.46	276	28679	0.95	ng	100

(#) = qualifier out of range (m) = manual integration

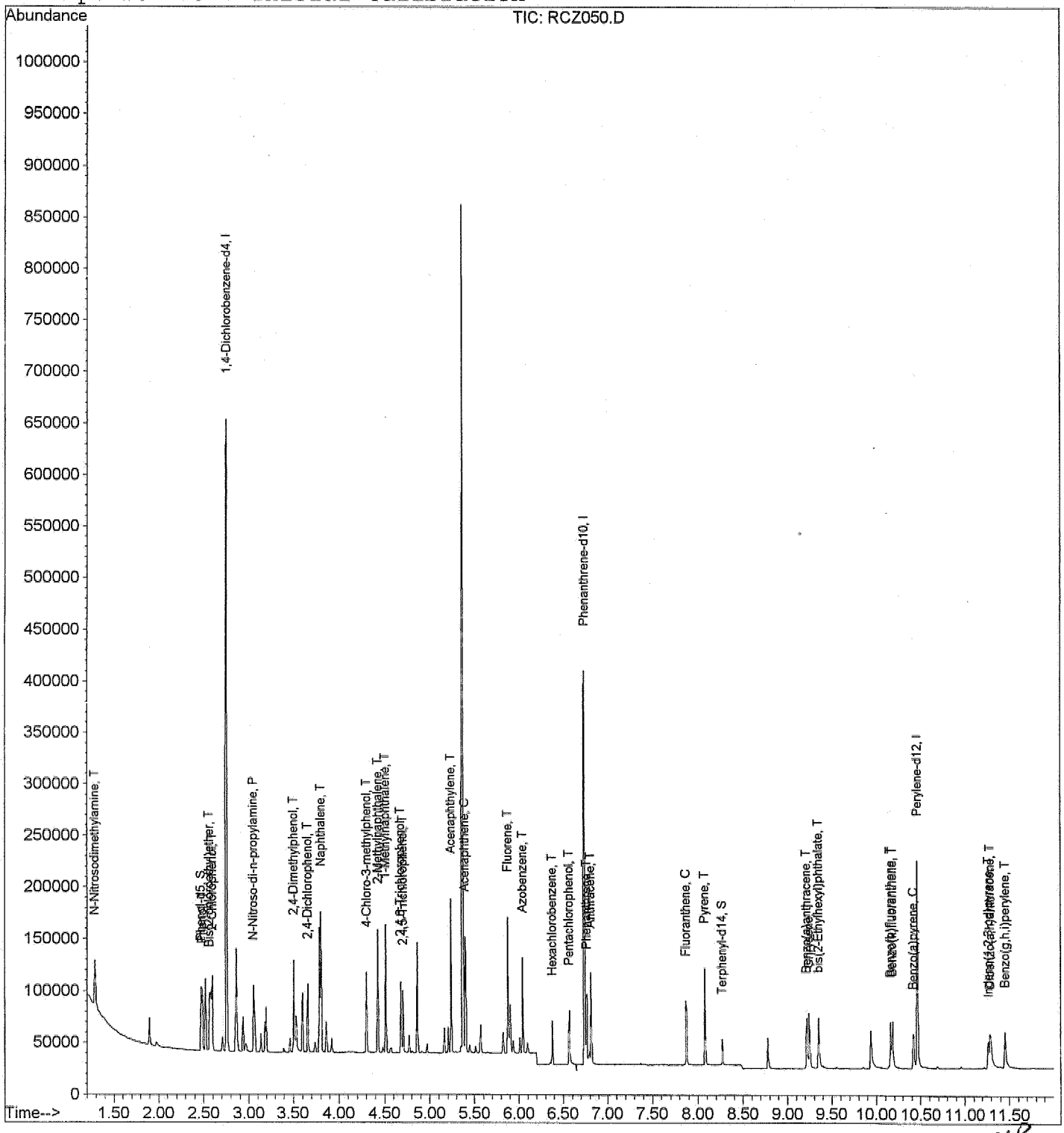
3193

Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ050.D
Acq On : 2 MAR 2006 20:21
Sample : SV48C023 1PPM
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:28 2006

Vial: 5
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:35:33 2006
Response via : Initial Calibration



3194

Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C02\RCZ051.D Vial: 6
Acq On : 2 MAR 2006 20:40 Operator: KV
Sample : SV48C024 2PPM Inst : TO48
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:28 2006 Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:27:02 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.75	152	206670	10.00	ng		0.00
20) Phenanthrene-d10	6.74	188	332000	10.00	ng		0.00
28) Perylene-d12	10.46	264	145927	10.00	ng		0.00
System Monitoring Compounds							
3) Phenol-d5	2.47	99	61168	1.86	ng		0.00
27) Terphenyl-d14	8.28	244	29888	1.76	ng		0.00
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	1.29	74	76164	2.14	ng	#	43
4) Phenol	2.48	94	67661	1.77	ng		94
5) Bis(2-chloroethyl)ether	2.57	93	57135	2.03	ng		93
6) 2-Chlorophenol	2.59	128	65180	1.79	ng	#	26
7) N-Nitroso-di-n-propylamine	3.07	70	26549	1.87	ng		86
8) 2,4-Dimethylphenol	3.51	122	42702	2.06	ng		95
9) 2,4-Dichlorophenol	3.66	162	42707	1.82	ng		94
10) Naphthalene	3.81	128	154419	2.01	ng		95
11) 4-Chloro-3-methylphenol	4.31	107	41258	1.86	ng		84
12) 2-Methylnaphthalene	4.43	142	82306	1.85	ng		97
13) 1-Methylnaphthalene	4.52	142	74923	2.03	ng		98
14) 2,4,6-Trichlorophenol	4.68	196	23302	1.85	ng		99
15) 2,4,5-Trichlorophenol	4.71	196	21854	1.73	ng		99
16) Acenaphthylene	5.24	152	116017	1.88	ng		84
17) Acenaphthene	5.40	154	71539	2.02	ng		92
18) Fluorene	5.88	166	79305	1.94	ng		96
19) Azobenzene	6.05	77	86082	1.87	ng		100
21) Hexachlorobenzene	6.38	142	23254	1.98	ng		100
22) Pentachlorophenol	6.57	266	46365	1.84	ng		82
23) Phenanthrene	6.77	178	102729	2.00	ng		100
24) Anthracene	6.82	178	103571	1.95	ng		100
25) Fluoranthene	7.88	202	86588	1.94	ng		97
26) Pyrene	8.08	202	89089	1.89	ng		99
29) Benzo(a)anthracene	9.22	228	57637	2.02	ng		99
30) Chrysene	9.25	228	62618	2.06	ng		96
31) bis(2-Ethylhexyl)phthalate	9.35	149	67913	1.86	ng		96
32) Benzo(b)fluoranthene	10.16	252	51044	1.85	ng		100
33) Benzo(k)fluoranthene	10.18	252	60070	1.96	ng		81
34) Benzo(a)pyrene	10.42	252	54873	1.95	ng		98
35) Indeno(1,2,3-cd)pyrene	11.27	276	63678	1.92	ng		88
36) Dibenzo(a,h)anthracene	11.29	278	46849	1.89	ng		97
37) Benzo(g,h,i)perylene	11.46	276	58397	1.97	ng		98

(#) = qualifier out of range (m) = manual integration

CMP 3/7/06

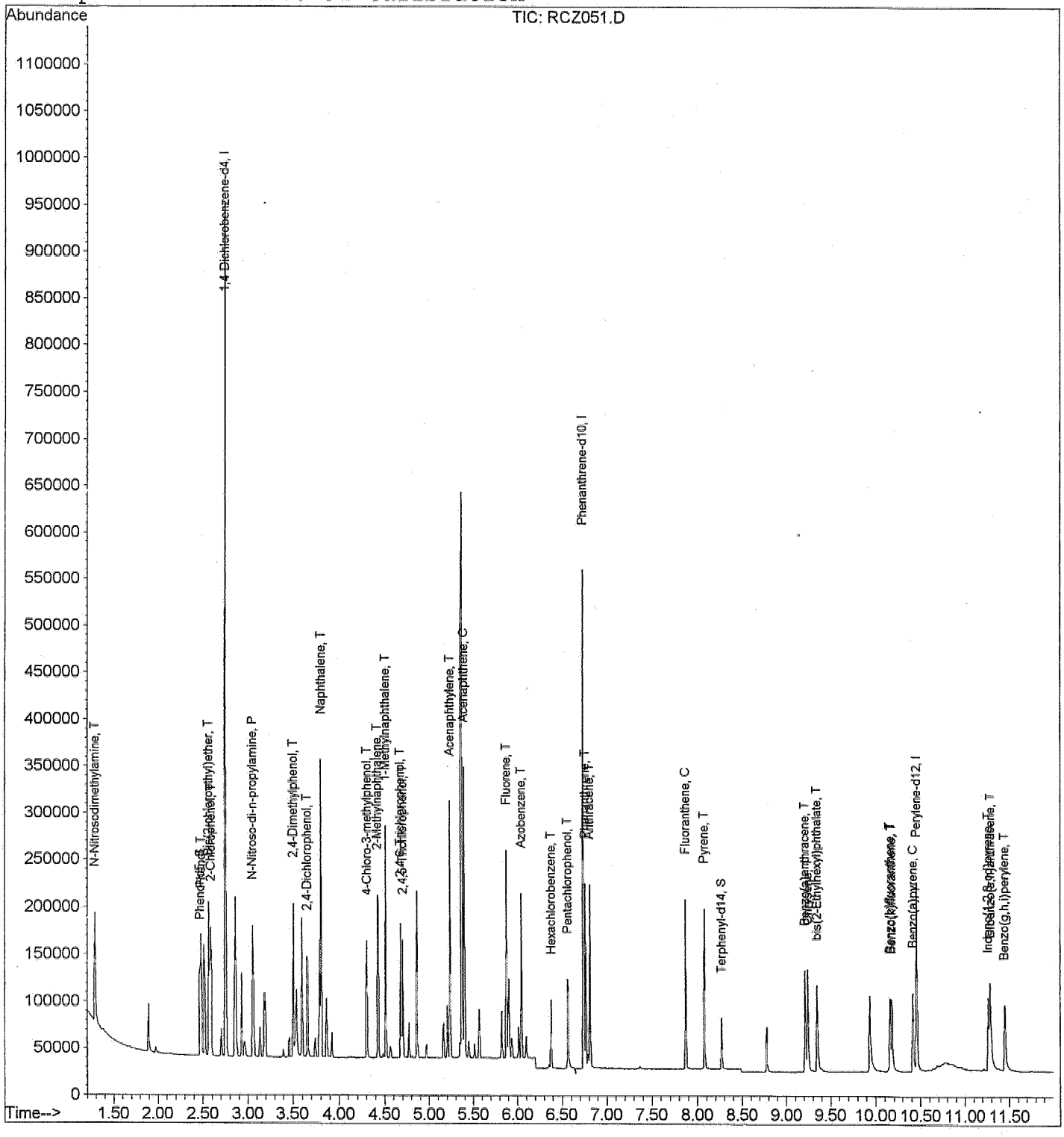
Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ051.D
Acq On : 2 MAR 2006 20:40
Sample : SV48C024 2PPM
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:28 2006

Vial: 6
Operator: KV
Inst : TO48
Multiplr: 1.00

Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:35:33 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C02\RCZ052.D Vial: 7
Acq On : 2 MAR 2006 20:59 Operator: KV
Sample : SV48C025 5PPM Inst : TO48
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:29 2006 Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:27:02 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.75	152	206517	10.00	ng		0.00
20) Phenanthrene-d10	6.74	188	341387	10.00	ng		0.00
28) Perylene-d12	10.46	264	158974	10.00	ng		0.00
System Monitoring Compounds							
3) Phenol-d5	2.48	99	166331	5.06	ng		0.00
27) Terphenyl-d14	8.28	244	85161	4.89	ng		0.00
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	1.29	74	184553	5.19	ng		90
4) Phenol	2.49	94	185112	4.83	ng		97
5) Bis(2-chloroethyl)ether	2.57	93	139592	4.96	ng		90
6) 2-Chlorophenol	2.60	128	178323	4.89	ng		88
7) N-Nitroso-di-n-propylamine	3.08	70	68880	4.86	ng	#	68
8) 2,4-Dimethylphenol	3.51	122	111000	5.35	ng		96
9) 2,4-Dichlorophenol	3.67	162	113866	4.84	ng		100
10) Naphthalene	3.81	128	392044	5.11	ng		96
11) 4-Chloro-3-methylphenol	4.31	107	113823	5.13	ng		91
12) 2-Methylnaphthalene	4.43	142	223069	5.02	ng		96
13) 1-Methylnaphthalene	4.52	142	198815	5.40	ng		96
14) 2,4,6-Trichlorophenol	4.68	196	68528	5.44	ng		100
15) 2,4,5-Trichlorophenol	4.71	196	65018	5.15	ng		99
16) Acenaphthylene	5.24	152	316157	5.13	ng		94
17) Acenaphthene	5.41	154	181745	5.14	ng		98
18) Fluorene	5.88	166	213651	5.24	ng		99
19) Azobenzene	6.05	77	230566	5.02	ng		100
21) Hexachlorobenzene	6.38	142	60710	5.03	ng		96
22) Pentachlorophenol	6.58	266	128390	4.96	ng		99
23) Phenanthrene	6.77	178	266827	5.06	ng		100
24) Anthracene	6.82	178	266738	4.87	ng		99
25) Fluoranthene	7.88	202	231597	5.04	ng		100
26) Pyrene	8.08	202	245403	5.05	ng		100
29) Benzo(a)anthracene	9.22	228	157082	5.04	ng		98
30) Chrysene	9.25	228	168911	5.09	ng		99
31) bis(2-Ethylhexyl)phthalate	9.35	149	200793	5.06	ng		97
32) Benzo(b)fluoranthene	10.16	252	142981	4.76	ng		99
33) Benzo(k)fluoranthene	10.18	252	165517	4.96	ng		100
34) Benzo(a)pyrene	10.42	252	150725	4.92	ng		98
35) Indeno(1,2,3-cd)pyrene	11.27	276	172870	4.78	ng		86
36) Dibenzo(a,h)anthracene	11.29	278	129238	4.79	ng		96
37) Benzo(g,h,i)perylene	11.46	276	158989	4.93	ng		98

(#) = qualifier out of range (m) = manual integration

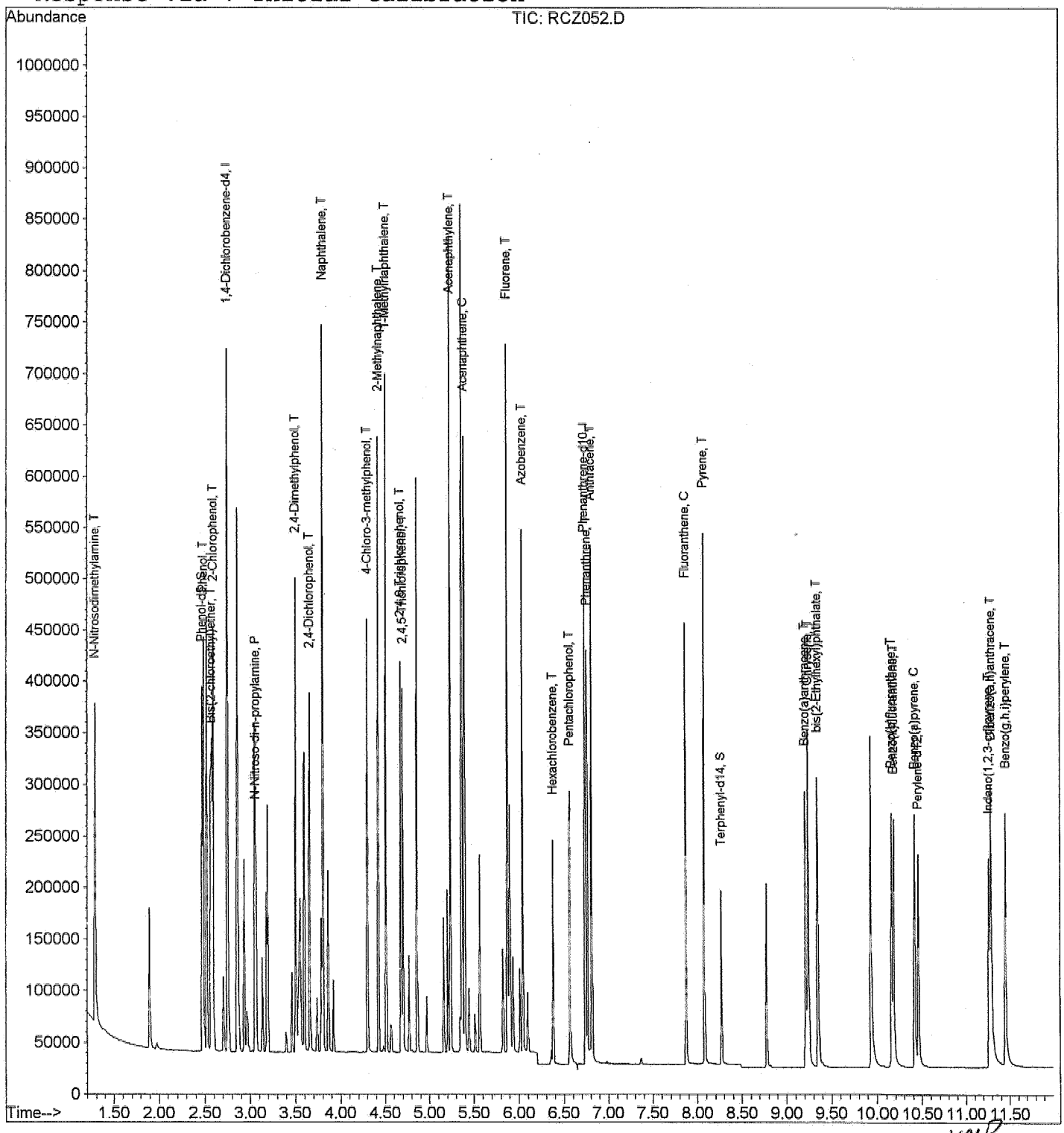
3197

Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ052.D
Acq On : 2 MAR 2006 20:59
Sample : SV48C025 5PPM
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:29 2006

Vial: 7
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:35:33 2006
Response via : Initial Calibration



KMP 3/7/06

3198

Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C02\RCZ053.D Vial: 8
Acq On : 2 MAR 2006 21:18 Operator: KV
Sample : SV48C026 10PPM Inst : TO48
Misc : CAL REF Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:26 2006 Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:26:19 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.76	152	208041	10.00	ng	0.00
20) Phenanthrene-d10	6.74	188	334014	10.00	ng	0.00
28) Perylene-d12	10.46	264	157707	10.00	ng	0.00
System Monitoring Compounds						
3) Phenol-d5	2.48	99	331442	10.00	ng	0.00
27) Terphenyl-d14	8.28	244	170406	10.00	ng	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.29	74	358151	10.00	ng	100
4) Phenol	2.49	94	385687	10.00	ng	100
5) Bis(2-chloroethyl)ether	2.58	93	283287	10.00	ng	100
6) 2-Chlorophenol	2.60	128	367392	10.00	ng	100
7) N-Nitroso-di-n-propylamine	3.08	70	142818	10.00	ng	100
8) 2,4-Dimethylphenol	3.51	122	208816	10.00	ng	100
9) 2,4-Dichlorophenol	3.67	162	236800	10.00	ng	100
10) Naphthalene	3.82	128	773339	10.00	ng	100
11) 4-Chloro-3-methylphenol	4.31	107	223501	10.00	ng	100
12) 2-Methylnaphthalene	4.43	142	447459	10.00	ng	100
13) 1-Methylnaphthalene	4.52	142	370727	10.00	ng	100
14) 2,4,6-Trichlorophenol	4.68	196	127011	10.00	ng	100
15) 2,4,5-Trichlorophenol	4.71	196	127187	10.00	ng	100
16) Acenaphthylene	5.24	152	620701	10.00	ng	100
17) Acenaphthene	5.41	154	356000	10.00	ng	100
18) Fluorene	5.88	166	410950	10.00	ng	100
19) Azobenzene	6.05	77	462281	10.00	ng	100
21) Hexachlorobenzene	6.38	142	118094	10.00	ng	100
22) Pentachlorophenol	6.58	266	253118	10.00	ng	100
23) Phenanthrene	6.77	178	516352	10.00	ng	100
24) Anthracene	6.82	178	535542	10.00	ng	100
25) Fluoranthene	7.88	202	449475	10.00	ng	100
26) Pyrene	8.08	202	475261	10.00	ng	100
29) Benzo(a)anthracene	9.22	228	308895	10.00	ng	100
30) Chrysene	9.25	228	329279	10.00	ng	100
31) bis(2-Ethylhexyl)phthalate	9.35	149	393879	10.00	ng	100
32) Benzo(b)fluoranthene	10.16	252	297877	10.00	ng	100
33) Benzo(k)fluoranthene	10.18	252	331295	10.00	ng	100
34) Benzo(a)pyrene	10.42	252	303688	10.00	ng	100
35) Indeno(1,2,3-cd)pyrene	11.28	276	358894	10.00	ng	100
36) Dibenzo(a,h)anthracene	11.29	278	267699	10.00	ng	100
37) Benzo(g,h,i)perylene	11.46	276	319605	10.00	ng	100

(#) = qualifier out of range (m) = manual integration

KVP 3/6/06

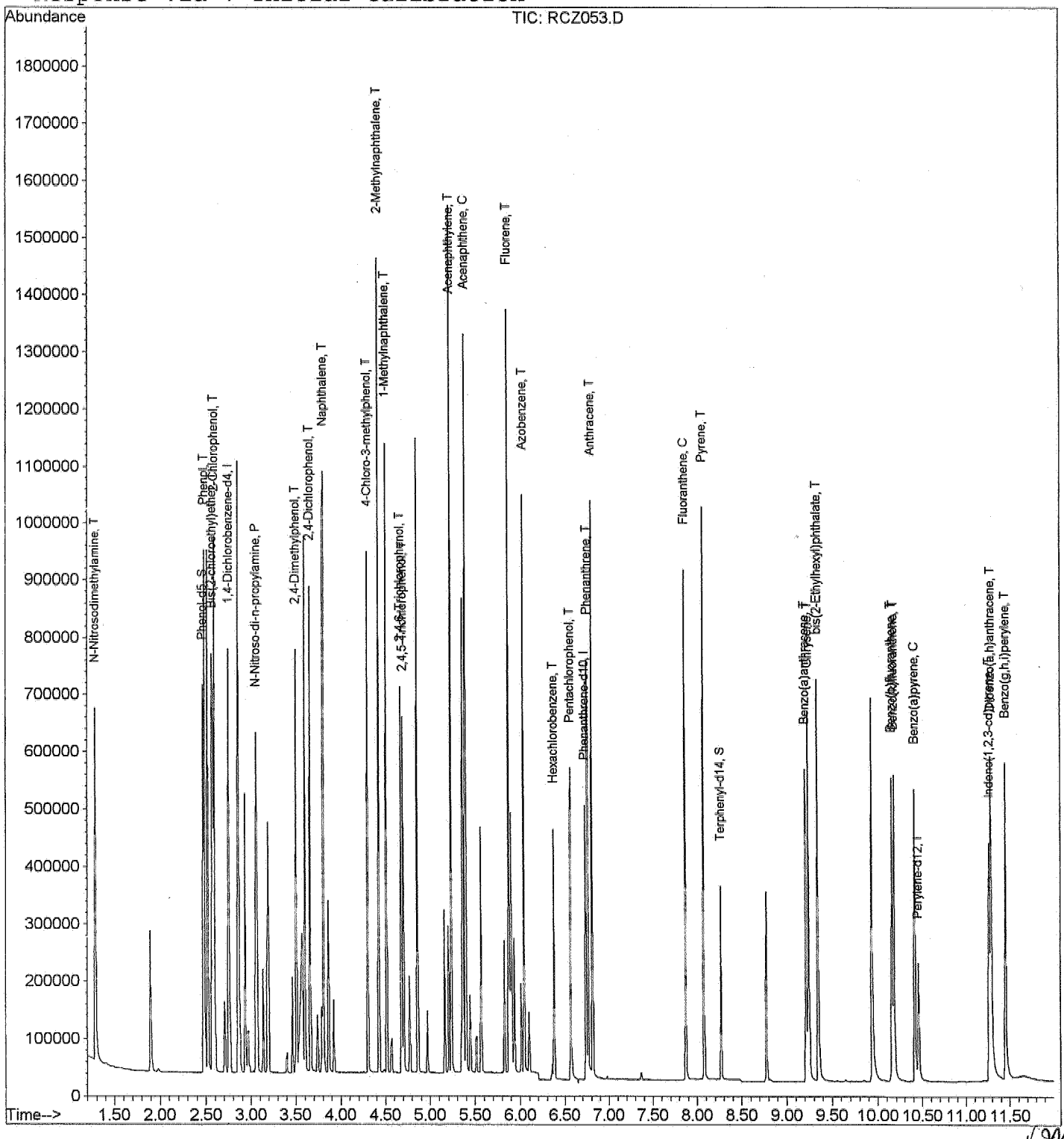
Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ053.D
Acq On : 2 MAR 2006 21:18
Sample : SV48C026 10PPM
Misc : CAL REF
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:26 2006

Vial: 8
Operator: KV
Inst : TO48
Multiplr: 1.00

Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:35:33 2006
Response via : Initial Calibration



3200

Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C02\RCZ054.D
Acq On : 2 MAR 2006 21:37
Sample : SV48C027 20PPM
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:30 2006

Vial: 9
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:27:02 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.76	152	222226	10.00	ng	0.00
20) Phenanthrene-d10	6.75	188	363411	10.00	ng	0.00
28) Perylene-d12	10.47	264	174729	10.00	ng	0.00
System Monitoring Compounds						
3) Phenol-d5	2.48	99	701148	19.80	ng	0.00
27) Terphenyl-d14	8.28	244	366359	19.76	ng	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.29	74	769482	20.11	ng	99
4) Phenol	2.49	94	734885	17.84	ng	98
5) Bis(2-chloroethyl)ether	2.58	93	654700	21.64	ng	99
6) 2-Chlorophenol	2.60	128	785156	20.01	ng	89
7) N-Nitroso-di-n-propylamine	3.08	70	308166	20.20	ng	86
8) 2,4-Dimethylphenol	3.51	122	452873	20.30	ng	100
9) 2,4-Dichlorophenol	3.67	162	513249	20.29	ng	100
10) Naphthalene	3.82	128	1667776	20.19	ng	100
11) 4-Chloro-3-methylphenol	4.31	107	457044	19.14	ng	92
12) 2-Methylnaphthalene	4.43	142	972706	20.35	ng	98
13) 1-Methylnaphthalene	4.52	142	779235	19.68	ng	100
14) 2,4,6-Trichlorophenol	4.68	196	264647	19.51	ng	95
15) 2,4,5-Trichlorophenol	4.71	196	272288	20.04	ng	98
16) Acenaphthylene	5.24	152	1295126	19.53	ng	95
17) Acenaphthene	5.41	154	787109	20.70	ng	94
18) Fluorene	5.88	166	850099	19.37	ng	97
19) Azobenzene	6.06	77	938767	19.01	ng	96
21) Hexachlorobenzene	6.38	142	241151	18.77	ng	87
22) Pentachlorophenol	6.58	266	551630	20.03	ng	93
23) Phenanthrene	6.78	178	1150145	20.47	ng	93
24) Anthracene	6.83	178	1157211	19.86	ng	94
25) Fluoranthene	7.88	202	1039928	21.26	ng	94
26) Pyrene	8.08	202	1016686	19.66	ng	92
29) Benzo(a)anthracene	9.23	228	729314	21.31	ng	91
30) Chrysene	9.26	228	710635	19.48	ng	89
31) bis(2-Ethylhexyl)phthalate	9.36	149	893012	20.46	ng	86
32) Benzo(b)fluoranthene	10.16	252	718075	21.76	ng	88
33) Benzo(k)fluoranthene	10.18	252	609544	16.61	ng	84
34) Benzo(a)pyrene	10.43	252	692790	20.59	ng	90
35) Indeno(1,2,3-cd)pyrene	11.28	276	832669	20.94	ng	96
36) Dibenzo(a,h)anthracene	11.30	278	623585	21.02	ng	89
37) Benzo(g,h,i)perylene	11.47	276	715457	20.20	ng	95

(#) = qualifier out of range (m) = manual integration

3/7/06

3201

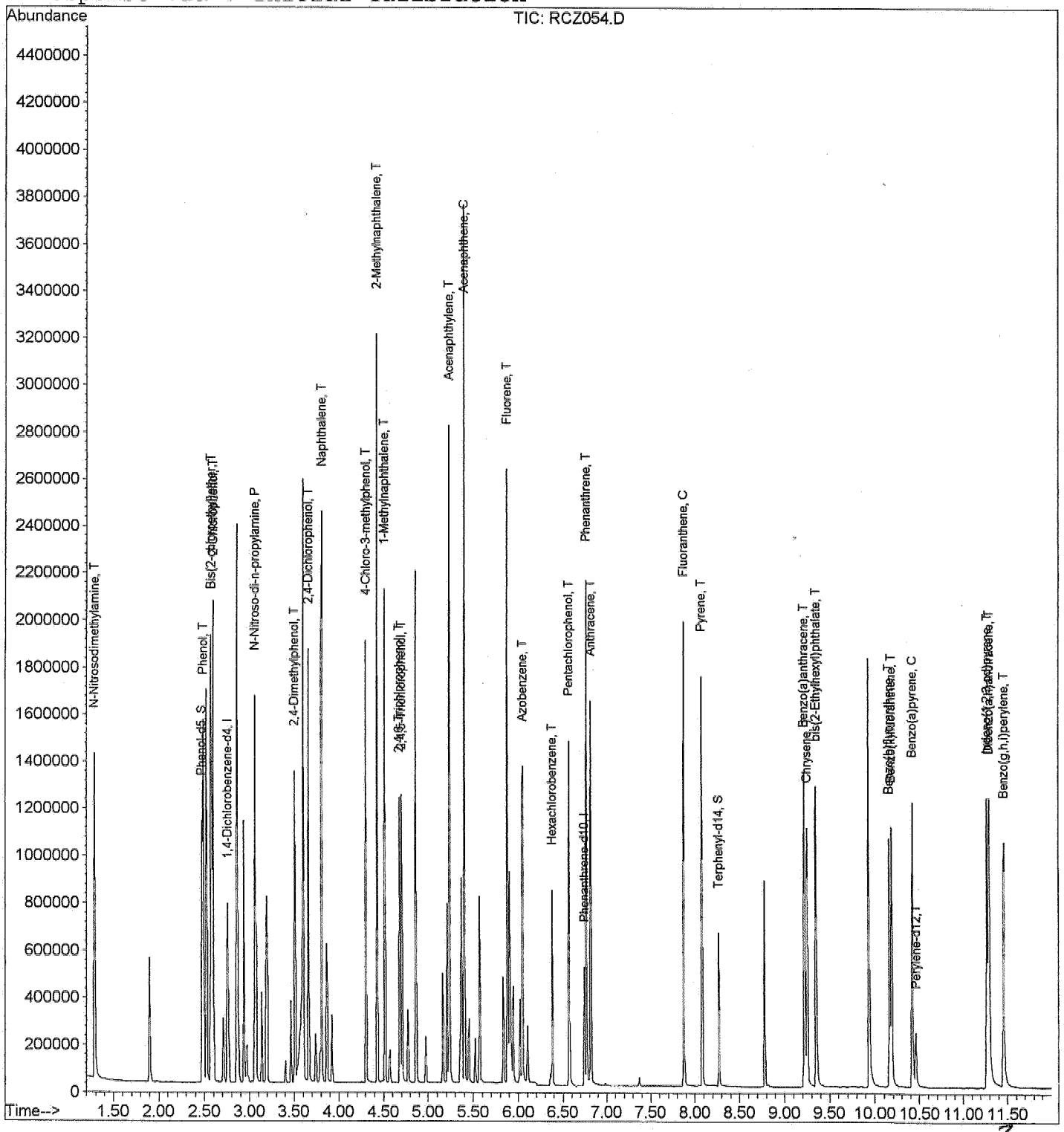
Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ054.D
Acq On : 2 MAR 2006 21:37
Sample : SV48C027 20PPM
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:30 2006

Vial: 9
Operator: KV
Inst : TO48
Multiplr: 1.00

Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:35:33 2006
Response via : Initial Calibration



3262

Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C02\RCZ055.D Vial: 10
Acq On : 2 MAR 2006 21:57 Operator: KV
Sample : SV48C028 40PPM Inst : TO48
Misc : SURR Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:31 2006 Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:27:02 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.76	152	221037	10.00	ng	0.00
20) Phenanthrene-d10	6.74	188	347756	10.00	ng	0.00
28) Perylene-d12	10.46	264	155036	10.00	ng	0.00
System Monitoring Compounds						
3) Phenol-d5	2.48	99	1161638	32.99	ng	0.00
27) Terphenyl-d14	8.28	244	746479	42.07	ng	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

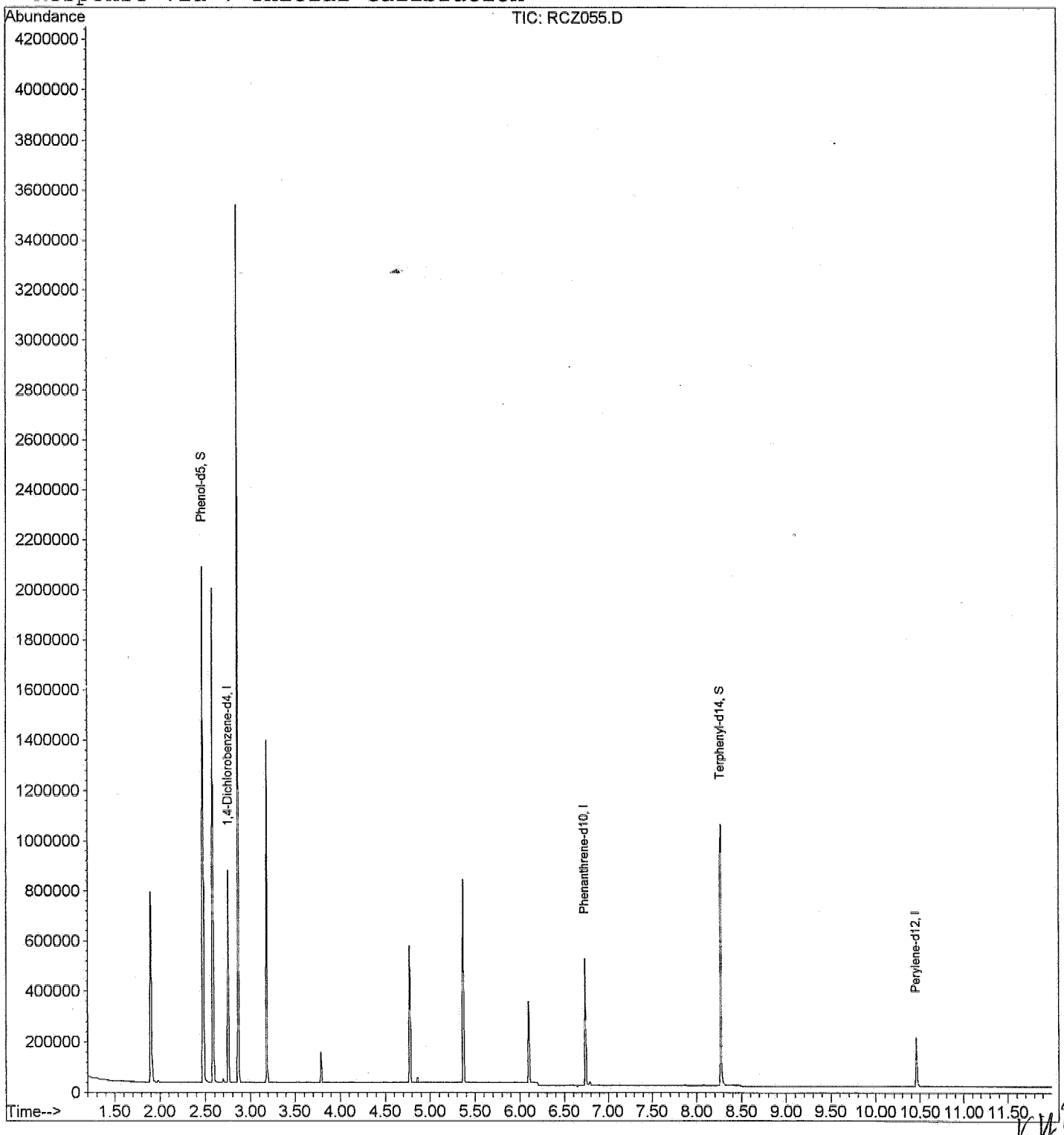
KUP 3/17/06

Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ055.D
Acq On : 2 MAR 2006 21:57
Sample : SV48C028 40PPM
Misc : SURR
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:31 2006

Vial: 10
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:35:33 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C02\RCZ056.D Vial: 11
Acq On : 2 MAR 2006 22:16 Operator: KV
Sample : SV48C029 80PPM Inst : TO48
Misc : SURR Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:31 2006 Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:27:02 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.75	152	220841	10.00	ng	0.00
20) Phenanthrene-d10	6.74	188	356660	10.00	ng	0.00
28) Perylene-d12	10.46	264	163971	10.00	ng	0.00
System Monitoring Compounds						
3) Phenol-d5	2.48	99	2506808	71.25	ng	0.00
27) Terphenyl-d14	8.28	244	1630695	89.62	ng	0.00
Target Compounds						Qvalue

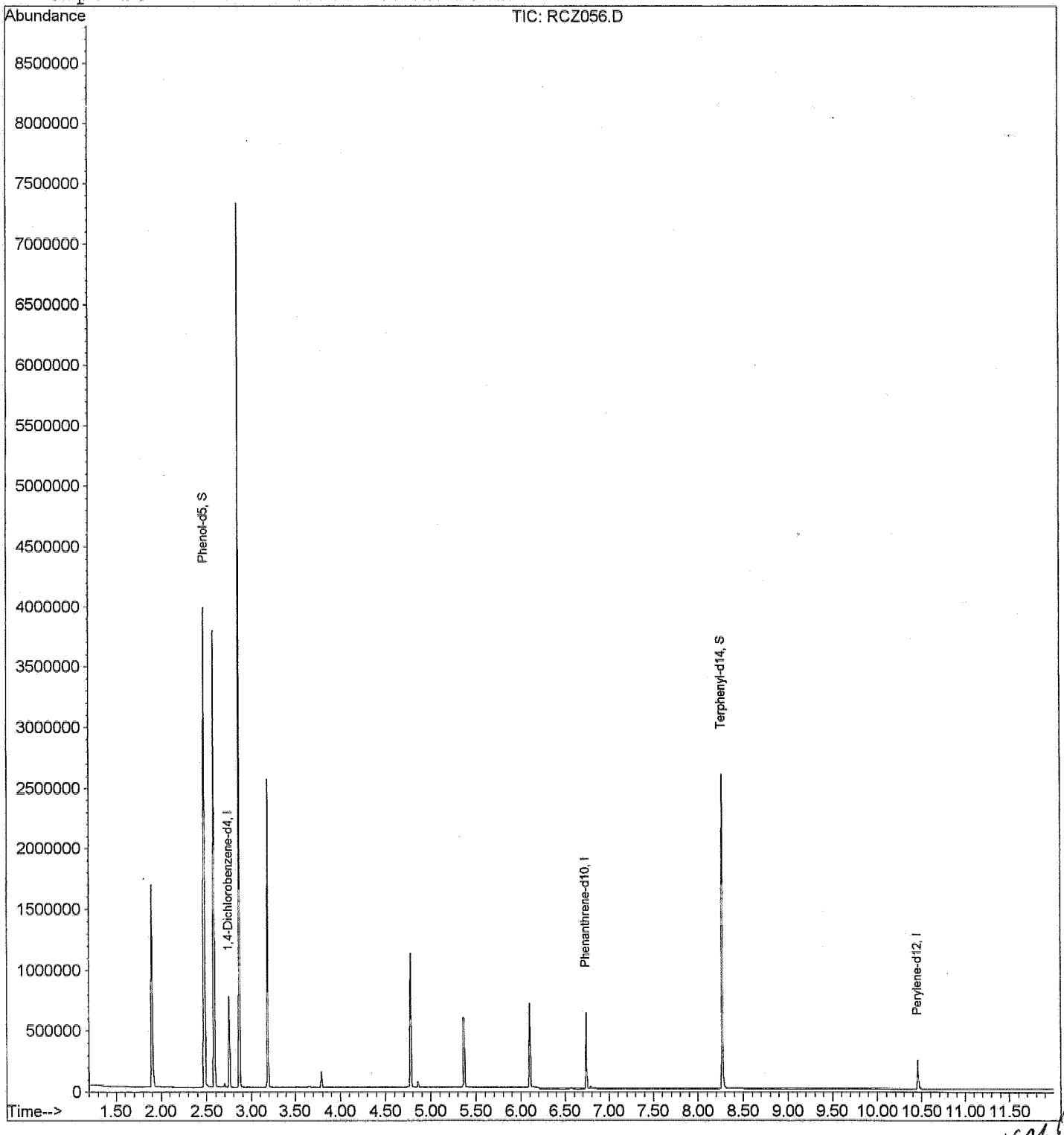
(#) = qualifier out of range (m) = manual integration

3/7/06

Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ056.D Vial: 11
Acq On : 2 MAR 2006 22:16 Operator: KV
Sample : SV48C029 80PPM Inst : TO48
Misc : SURR Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:31 2006 Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:35:33 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C02\RCZ057.D Vial: 12
Acq On : 2 MAR 2006 22:35 Operator: KV
Sample : SV48C0210 100PPM Inst : TO48
Misc : SURR Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:32 2006 Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:27:02 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.75	152	221942	10.00	ng	0.00
20) Phenanthrene-d10	6.74	188	344139	10.00	ng	0.00
28) Perylene-d12	10.46	264	166962	10.00	ng	0.00
System Monitoring Compounds						
3) Phenol-d5	2.48	99	3349193	94.72	ng	0.00
27) Terphenyl-d14	8.28	244	1796433	102.32	ng	0.00
Target Compounds						Qvalue

KW 3/7/06

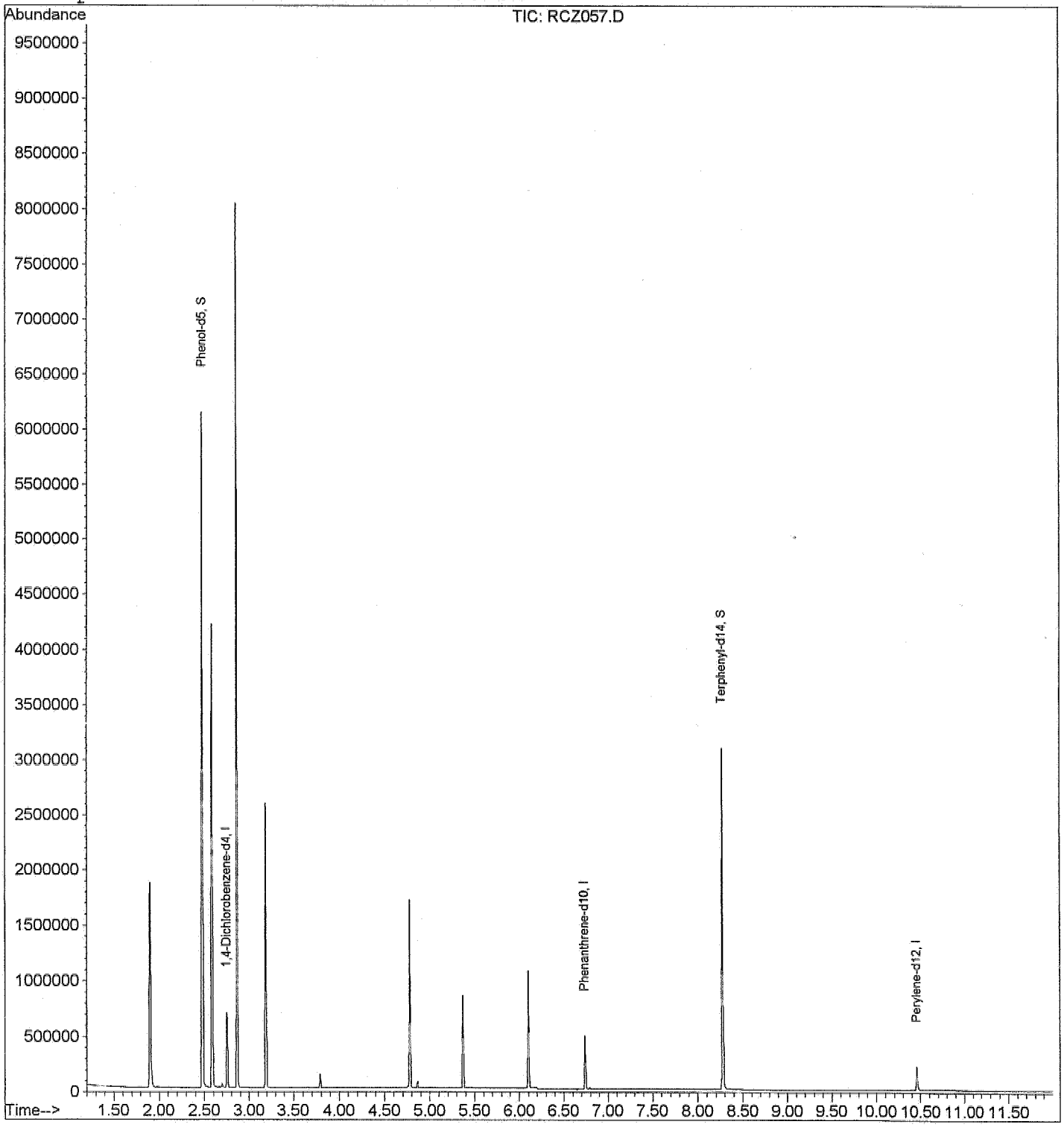
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ057.D
Acq On : 2 MAR 2006 22:35
Sample : SV48C0210 100PPM
Misc : SURR
MS Integration Params: RTEINT.P
Quant Time: Mar 3 14:32 2006

Vial: 12
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Fri Mar 03 14:35:33 2006
Response via : Initial Calibration



3208

SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :TO48
IC_Beginning DateTime :03/02/06 19:43
Spike Amount :10 PPM
CC/CV File :RCZ058
IC File :RCZ053

Column Spec :ZB-5MS ID :0.18MM
IC_Ending DateTime :03/02/06 22:35
HPChem Method :SV48C02
Date_Time :03/02/06 22:54

M IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
1	1,4-Dichlorobenzene-d4	10.000	0	215005	1	1	2.750	2.753	0				
2	N-Nitrosodimethylamine	8.359	-16.4	316814	1.474	1.763	1.292	1.292	5.50				
3	Phenol-d5												
4	Phenol	9.248	-7.5	339049	1.577	1.705	2.492	2.488	5.10				
5	Bis(2-chloroethyl)ether	9.018	-9.8	267109	1.242	1.378	2.575	2.568	4.14				
6	2-Chlorophenol	9.063	-9.4	325643	1.515	1.671	2.600	2.598	4.94				
7	N-Nitroso-di-n-propylamine	9.874	-1.3	138988	0.646	0.655	3.075	3.069	4.97				
8	2,4-Dimethylphenol	8.648	-13.5	197433	0.918	1.062	3.508	3.507	4.54				
9	2,4-Dichlorophenol	9.019	-9.8	213396	0.993	1.100	3.667	3.664	5.75				
10	Naphthalene	9.055	-9.4	733262	3.410	3.766	3.808	3.809	1.53				
11	4-Chloro-3-methylphenol	9.103	-9.0	209076	0.972	1.068	4.308	4.307	6.15				
12	2-Methylnaphthalene	9.124	-8.8	418146	1.945	2.131	4.433	4.432	3.48				
13	1-Methylnaphthalene	10.532	5.3	417401	1.941	1.843	4.517	4.516	3.58				
14	2,4,6-Trichlorophenol	8.486	-15.1	110443	0.514	0.605	4.683	4.682	6.57				
15	2,4,5-Trichlorophenol	8.793	-12.1	113263	0.527	0.599	4.708	4.707	8.56				
16	Acenaphthylene	9.322	-6.8	609566	2.835	3.041	5.242	5.240	8.47				
17	Acenaphthene	8.759	-12.4	348126	1.619	1.848	5.408	5.405	14.08				
18	Fluorene	8.739	-12.6	382235	1.778	2.034	5.883	5.882	9.84				
19	Azobenzene	8.260	-17.4	388147	1.805	2.185	6.050	6.050	8.47				
20	Phenanthrene-d10	10.000	0	366466	1	1	6.750	6.743	0				
21	Hexachlorobenzene	8.102	-19.0	108005	0.295	0.364	6.383	6.382	12.70				
22	Pentachlorophenol	8.231	-17.7	218397	0.596	0.724	6.575	6.572	5.94				
23	Phenanthrene	8.359	-16.4	498753	1.361	1.628	6.775	6.769	12.53				
24	Anthracene	8.400	-16.0	501339	1.368	1.628	6.817	6.817	10.73				
25	Fluoranthene	8.425	-15.7	424395	1.158	1.375	7.875	7.875	10.76				
26	Pyrene	8.341	-16.6	442991	1.209	1.449	8.083	8.082	12.17				
27	Terphenyl-d14												
28	Perylene-d12	10.000	0	176867	1	1	10.458	10.460	0				
29	Benzo(a)anthracene	8.403	-16.0	308186	1.742	2.074	9.217	9.218	10.60				
30	Chrysene	8.259	-17.4	317169	1.793	2.171	9.250	9.250	7.71				
31	bis(2-Ethylhexyl)phthalate	8.768	-12.3	371719	2.102	2.397	9.350	9.354	7.68				
32	Benzo(b)fluoranthene	8.722	-12.8	275634	1.558	1.787	10.158	10.157	10.15				
33	Benzo(k)fluoranthene	8.940	-10.6	327553	1.852	2.072	10.183	10.181	10.07				
34	Benzo(a)pyrene	9.007	-9.9	290438	1.642	1.823	10.417	10.417	9.60				
35	Indeno(1,2,3-cd)pyrene	8.675	-13.2	333586	1.886	2.174	11.275	11.269	10.93				
36	Dibenzo(a,h)anthracene	8.850	-11.5	251090	1.420	1.604	11.292	11.292	10.98				
37	Benzo(g,h,i)perylene	8.512	-14.9	303727	1.717	2.017	11.458	11.458	10.94				

V 10
3/7/06

Evaluate Continuing Calibration Report

Data File : D:\CHEMDATA\06C02\RCZ058.D
Acq On : 2 MAR 2006 22:54
Sample : ISV48C021 10PPM
Misc : ICV
MS Integration Params: RTEINT.P

Vial: 13
Operator: KV
Inst : TO48
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	103	0.00
2	T	N-Nitrosodimethylamine	10.000	8.360 ✓	16.4 ✓	88	0.00
3	S	Phenol-d5	10.000	0.000	100.0#	0	-2.48#
4	T	Phenol	10.000	9.249	7.5	88	0.00
5	T	Bis(2-chloroethyl)ether	10.000	9.018	9.8	94	0.00
6	T	2-Chlorophenol	10.000	9.063	9.4	89	0.00
7	P	N-Nitroso-di-n-propylamine	10.000	9.875	1.3	97	0.00
8	T	2,4-Dimethylphenol	10.000	8.648	13.5	95	0.00
9	T	2,4-Dichlorophenol	10.000	9.020	9.8	90	0.00
10	T	Naphthalene	10.000	9.055	9.5	95	0.00
11	T	4-Chloro-3-methylphenol	10.000	9.104	9.0	94	0.00
12	T	2-Methylnaphthalene	10.000	9.125	8.8	93	0.00
13	T	1-Methylnaphthalene	10.000	10.533	-5.3	113	-0.01
14	T	2,4,6-Trichlorophenol	10.000	8.487	15.1	87	0.00
15	T	2,4,5-Trichlorophenol	10.000	8.794	12.1	89	-0.04
16	T	Acenaphthylene	10.000	9.322	6.8	98	0.00
17	C	Acenaphthene	10.000	8.760	12.4	98	0.00
18	T	Fluorene	10.000	8.740	12.6	93	0.00
19	T	Azobenzene	10.000	8.261	17.4	84	0.00
20	I	Phenanthrene-d10	10.000	10.000	0.0	110	0.00
21	T	Hexachlorobenzene	10.000	8.103 ✓	19.0 ✓	91	0.00
22	T	Pentachlorophenol	10.000	8.231	17.7	86	0.00
23	T	Phenanthrene	10.000	8.360	16.4	97	0.00
24	T	Anthracene	10.000	8.401	16.0	94	0.00
25	C	Fluoranthene	10.000	8.425	15.7	94	0.00
26	T	Pyrene	10.000	8.342	16.6	93	0.00
27	S	Terphenyl-d14	10.000	0.000	100.0#	0	-8.28#
28	I	Perylene-d12	10.000	10.000	0.0	112	0.00
29	T	Benzo(a)anthracene	10.000	8.403 ✓	16.0 ✓	100	0.00
30	T	Chrysene	10.000	8.259	17.4	96	0.00
31	T	bis(2-Ethylhexyl)phthalate	10.000	8.768	12.3	94	0.00
32	T	Benzo(b)fluoranthene	10.000	8.722	12.8	93	0.00
33	T	Benzo(k)fluoranthene	10.000	8.940	10.6	99	0.00
34	C	Benzo(a)pyrene	10.000	9.007	9.9	96	0.00
35	T	Indeno(1,2,3-cd)pyrene	10.000	8.676	13.2	93	0.00
36	T	Dibenzo(a,h)anthracene	10.000	8.850	11.5	94	0.00
37	T	Benzo(g,h,i)perylene	10.000	8.512	14.9	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

KV 3/7/06

Evaluate Continuing Calibration Report

Data File : D:\CHEMDATA\06C02\RCZ058.D Vial: 13
Acq On : 2 MAR 2006 22:54 Operator: KV
Sample : ISV48C021 10PPM Inst : TO48
Misc : ICV Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
2	T	N-Nitrosodimethylamine	1.763	1.474	16.4	88	0.00
3	S	Phenol-d5	1.501	0.000#	100.0#	0#	-2.48#
4	T	Phenol	1.705	1.577	7.5	88	0.00
5	T	Bis(2-chloroethyl)ether	1.378	1.242	9.9	94	0.00
6	T	2-Chlorophenol	1.671	1.515	9.3	89	0.00
7	P	N-Nitroso-di-n-propylamine	0.655	0.646	1.4	97	0.00
8	T	2,4-Dimethylphenol	1.062	0.918	13.6	95	0.00
9	T	2,4-Dichlorophenol	1.100	0.993	9.7	90	0.00
10	T	Naphthalene	3.766	3.410	9.5	95	0.00
11	T	4-Chloro-3-methylphenol	1.068	0.972	9.0	94	0.00
12	T	2-Methylnaphthalene	2.131	1.945	8.7	93	0.00
13	T	1-Methylnaphthalene	1.843	1.941	-5.3	113	-0.01
14	T	2,4,6-Trichlorophenol	0.605	0.514	15.0	87	0.00
15	T	2,4,5-Trichlorophenol	0.599	0.527	12.0	89	-0.04
16	T	Acenaphthylene	3.041	2.835	6.8	98	0.00
17	C	Acenaphthene	1.848	1.619	12.4	98	0.00
18	T	Fluorene	2.034	1.778	12.6	93	0.00
19	T	Azobenzene	2.185	1.805	17.4	84	0.00
20	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00
21	T	Hexachlorobenzene	0.364	0.295	19.0	91	0.00
22	T	Pentachlorophenol	0.724	0.596	17.7	86	0.00
23	T	Phenanthrene	1.628	1.361	16.4	97	0.00
24	T	Anthracene	1.628	1.368	16.0	94	0.00
25	C	Fluoranthene	1.375	1.158	15.8	94	0.00
26	T	Pyrene	1.449	1.209	16.6	93	0.00
27	S	Terphenyl-d14	0.524	0.000#	100.0#	0#	-8.28#
28	I	Perylene-d12	1.000	1.000	0.0	112	0.00
29	T	Benzo(a)anthracene	2.074	1.742	16.0	100	0.00
30	T	Chrysene	2.171	1.793	17.4	96	0.00
31	T	bis(2-Ethylhexyl)phthalate	2.397	2.102	12.3	94	0.00
32	T	Benzo(b)fluoranthene	1.787	1.558	12.8	93	0.00
33	T	Benzo(k)fluoranthene	2.072	1.852	10.6	99	0.00
34	C	Benzo(a)pyrene	1.823	1.642	9.9	96	0.00
35	T	Indeno(1,2,3-cd)pyrene	2.174	1.886	13.2	93	0.00
36	T	Dibenzo(a,h)anthracene	1.604	1.420	11.5	94	0.00
37	T	Benzo(g,h,i)perylene	2.017	1.717	14.9	95	0.00

KVP 3/7/06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C02\RCZ058.D
Acq On : 2 MAR 2006 22:54
Sample : ISV48C021 10PPM
Misc : ICV
MS Integration Params: RTEINT.P
Quant Time: Mar 6 10:20 2006

Vial: 13
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.75	152	215005	10.00	ng		0.00
20) Phenanthrene-d10	6.75	188	366466	10.00	ng		0.00
28) Perylene-d12	10.46	264	176867	10.00	ng		0.00
System Monitoring Compounds							
3) Phenol-d5	0.00	99	0d	0.00	ng		
27) Terphenyl-d14	0.00	244	0d	0.00	ng		
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	1.29	74	316814	8.36	ng		94
4) Phenol	2.49	94	339049	9.25	ng		97
5) Bis(2-chloroethyl)ether	2.58	93	267109	9.02	ng		98
6) 2-Chlorophenol	2.60	128	325643	9.06	ng		89
7) N-Nitroso-di-n-propylamine	3.08	70	138988	9.87	ng		83
8) 2,4-Dimethylphenol	3.51	122	197433	8.65	ng		96
9) 2,4-Dichlorophenol	3.67	162	213396	9.02	ng		100
10) Naphthalene	3.81	128	733262	9.06	ng		95
11) 4-Chloro-3-methylphenol	4.31	107	209076	9.10	ng		99
12) 2-Methylnaphthalene	4.43	142	418146	9.12	ng		99
13) 1-Methylnaphthalene	4.52	142	417401	10.53	ng		99
14) 2,4,6-Trichlorophenol	4.68	196	110443	8.49	ng		96
15) 2,4,5-Trichlorophenol	4.71	196	113263	8.79	ng		96
16) Acenaphthylene	5.24	152	609566	9.32	ng		100
17) Acenaphthene	5.41	154	348126	8.76	ng		98
18) Fluorene	5.88	166	382235	8.74	ng		98
19) Azobenzene	6.05	77	388147	8.26	ng		99
21) Hexachlorobenzene	6.38	142	108005	8.10	ng	#	77
22) Pentachlorophenol	6.58	266	218397	8.23	ng		95
23) Phenanthrene	6.78	178	498753	8.36	ng		92
24) Anthracene	6.82	178	501339	8.40	ng		98
25) Fluoranthene	7.88	202	424395	8.43	ng		99
26) Pyrene	8.08	202	442991	8.34	ng		98
29) Benzo(a)anthracene	9.22	228	308186	8.40	ng		97
30) Chrysene	9.25	228	317169	8.26	ng		97
31) bis(2-Ethylhexyl)phthalate	9.35	149	371719	8.77	ng		98
32) Benzo(b)fluoranthene	10.16	252	275634	8.72	ng		98
33) Benzo(k)fluoranthene	10.18	252	327553	8.94	ng		100
34) Benzo(a)pyrene	10.42	252	290438	9.01	ng		97
35) Indeno(1,2,3-cd)pyrene	11.28	276	333586	8.68	ng		97
36) Dibenzo(a,h)anthracene	11.29	278	251090	8.85	ng		99
37) Benzo(g,h,i)perylene	11.46	276	303727	8.51	ng		99

(#) = qualifier out of range (m) = manual integration

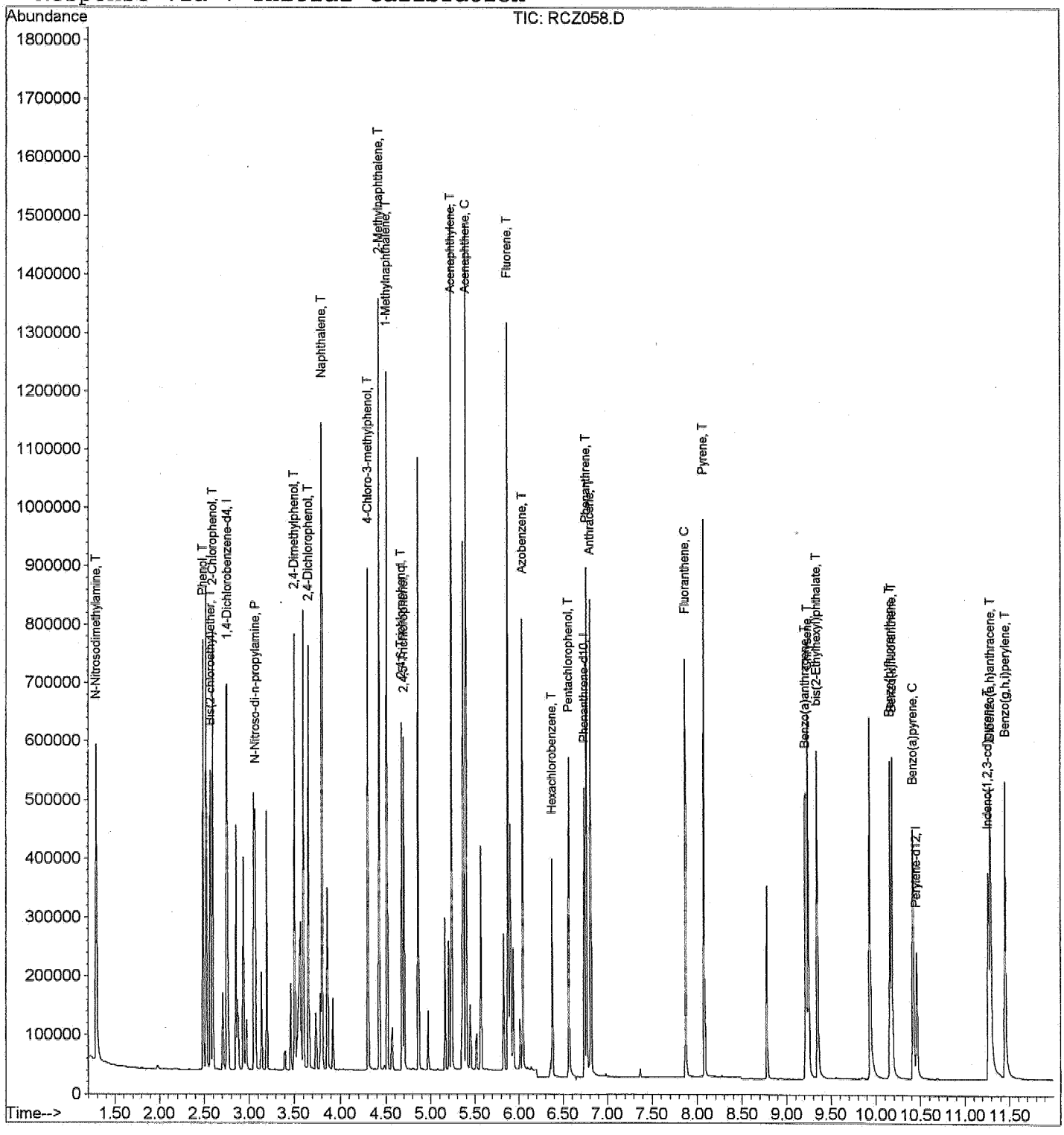
3/17/06

Quantitation Report

Data File : D:\CHEMDATA\06C02\RCZ058.D
Acq On : 2 MAR 2006 22:54
Sample : ISV48C021 10PPM
Misc : ICV
MS Integration Params: RTEINT.P
Quant Time: Mar 6 10:20 2006

Vial: 13
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration



KVP 3/7/06

DAILY CALIBRATIONS

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCZ442
Instrument ID: T-048

Project: UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C204
DFTPP Injection Date: 03/29/06
DFTPP Injection Time: 14:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.48
68	Less than 2% of mass 69	0.27(0.6)1
69	Relative abundance of mass 198	48.21
70	Less than 2.0% of mass 69	0.21(0.4)1
127	40.0 - 60.0% of mass 198	45.61
197	Less than 1.0% of mass 198	0.70
198	Base Peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.95
275	10.0 - 30.0% of mass 198	18.41
365	Greater than 1.00% of mass 198	1.53
441	Present, but less than mass 443	12.16
442	Greater than 40.0% of mass 198	75.00
443	17.0 - 23.0% of mass 442	13.40(17.9)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
1	SSTD010	CSV48C0214	RCZ443	03/29/06	15:20
2	MBLK1W	SVC031WB	RCZ444	03/29/06	15:39
3	LCS1W	SVC031WL	RCZ445	03/29/06	15:58
4	LCD1W	SVC031WC	RCZ446	03/29/06	16:17
5	M-120	C204-01	RCZ447	03/29/06	16:36

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCZ053
Instrument ID: T-048

Project:UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C204
Date Analyzed: 03/02/06
Time Analyzed: 21:18

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	208041	2.76	0	0.00	0	0.00
	UPPER LIMIT	416082	3.26	0	0.50	0	0.50
	LOWER LIMIT	104021	2.26	0	-0.50	0	-0.50
	SAMPLE ID						
1	SSTD010	195731	2.76	0	0.00	0	0.00
2	MBLK1W	204532	2.76	0	0.00	0	0.00
3	LCS1W	216636	2.76	0	0.00	0	0.00
4	LCD1W	229324	2.76	0	0.00	0	0.00
5	M-120	259451	2.76	0	0.00	0	0.00

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal satndard 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 used to flag internal standard area values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCZ053
Instrument ID: T-048

Project:UPGRADIENT INVESTIGATION, TRONOX
SDG No.: 06C204
Date Analyzed: 03/02/06
Time Analyzed: 21:18

		IS4(PHN)		IS5(CRY)		IS6(PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	334014	6.74	0	0.00	157707	10.46
	UPPER LIMIT	668028	7.24	0	0.50	315414	10.96
	LOWER LIMIT	167007	6.24	0	-0.50	78854	9.96
	SAMPLE ID						
1	SSTD010	335897	6.76	0	0.00	141484	10.48
2	MBLK1W	350108	6.75	0	0.00	136681	10.48
3	LCS1W	386367	6.75	0	0.00	161803	10.48
4	LCD1W	403620	6.75	0	0.00	184472	10.48
5	M-120	435849	6.75	0	0.00	186269	10.48

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

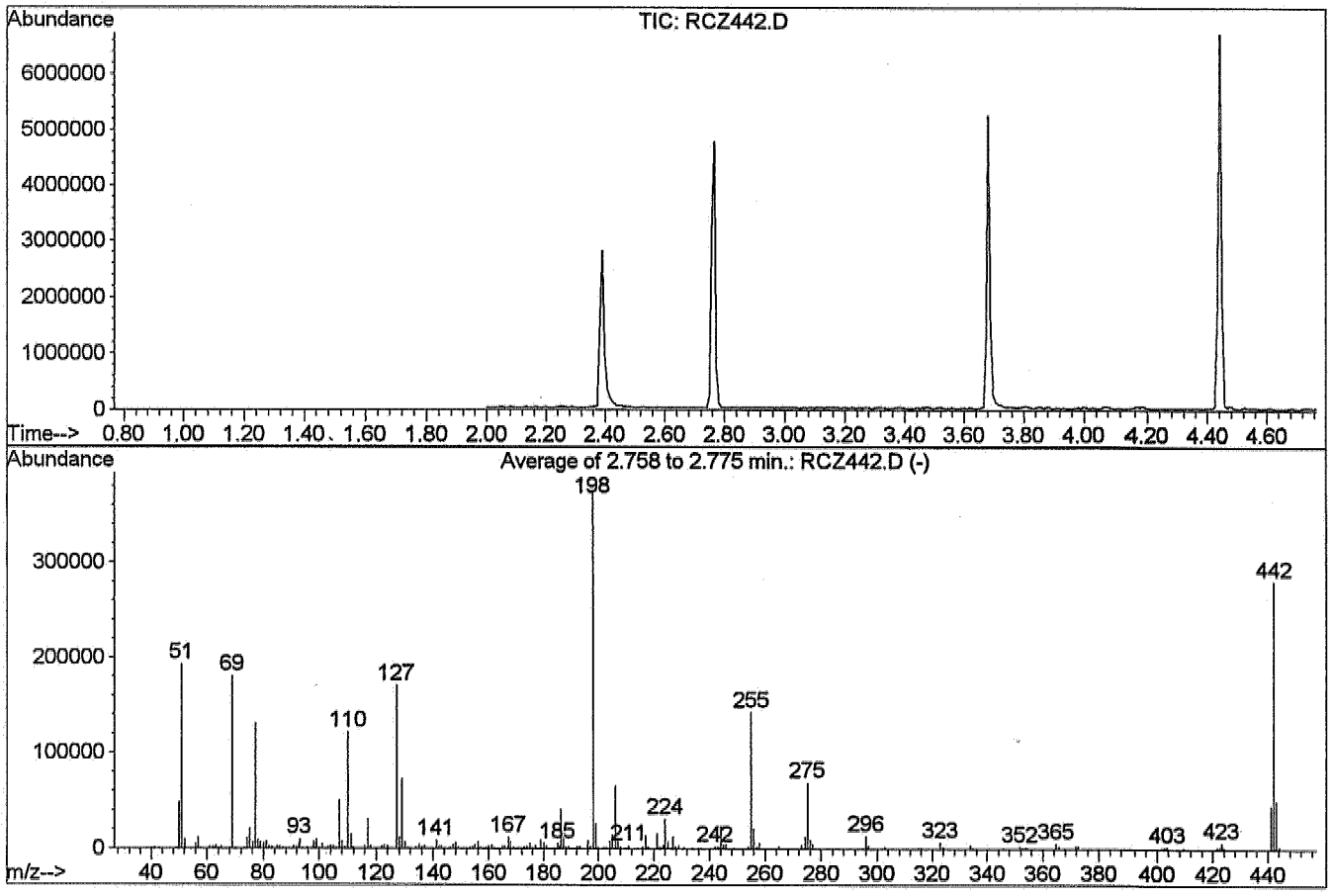
AREA UPPER LIMIT = +100% of internal satndard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

DFTPP

Data File : D:\CHEMDATA\06C29\RCZ442.D
Acq On : 29 MAR 2006 14:30
Sample : DFT48C0214
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPPSIM.M (RTE Integrator)
Title : DFTPP TUNE 8270C SHIMADZU GCMS-QP5000

Vial: 2
Operator: KV
Inst : TO48
Multiplr: 1.00



AutoFind: Scans 92, 93, 94; Background Corrected with Scan 88

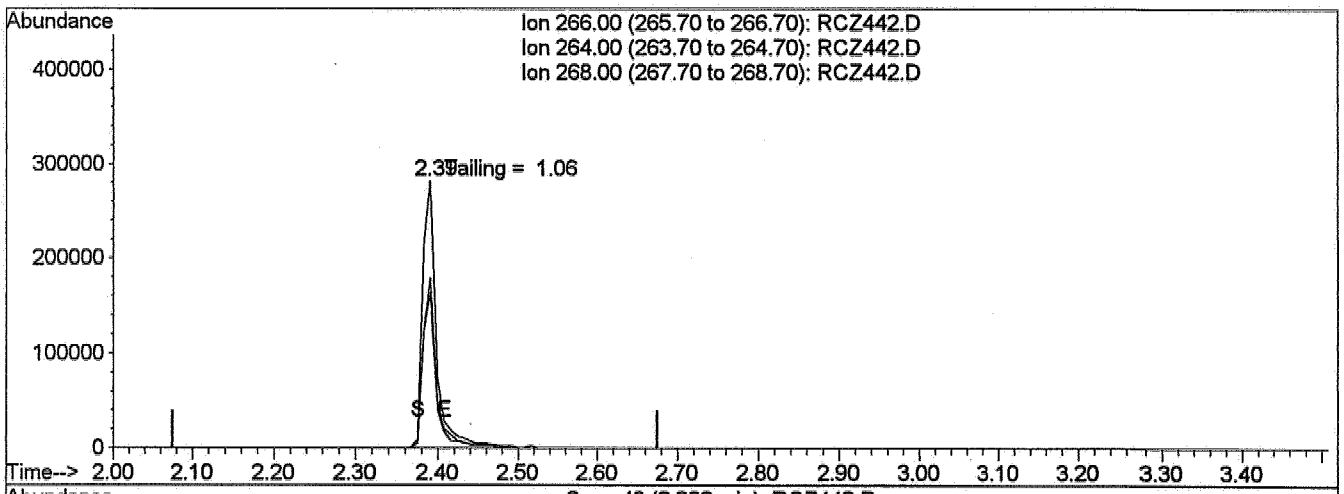
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.5	192857	PASS
68	69	0.00	2	0.6	1020	PASS
69	198	0.00	100	48.2	180636	PASS
70	69	0.00	2	0.4	801	PASS
127	198	40	60	45.6	170875	PASS
197	198	0.00	1	0.7	2631	PASS
198	198	100	100	100.0	374651	PASS
199	198	5	9	7.0	26058	PASS
275	198	10	30	18.4	68975	PASS
365	198	1	100	1.5	5752	PASS
441	443	0.01	100	90.8	45544	PASS
442	198	40	100	75.0	280989	PASS
443	442	17	23	17.9	50183	PASS

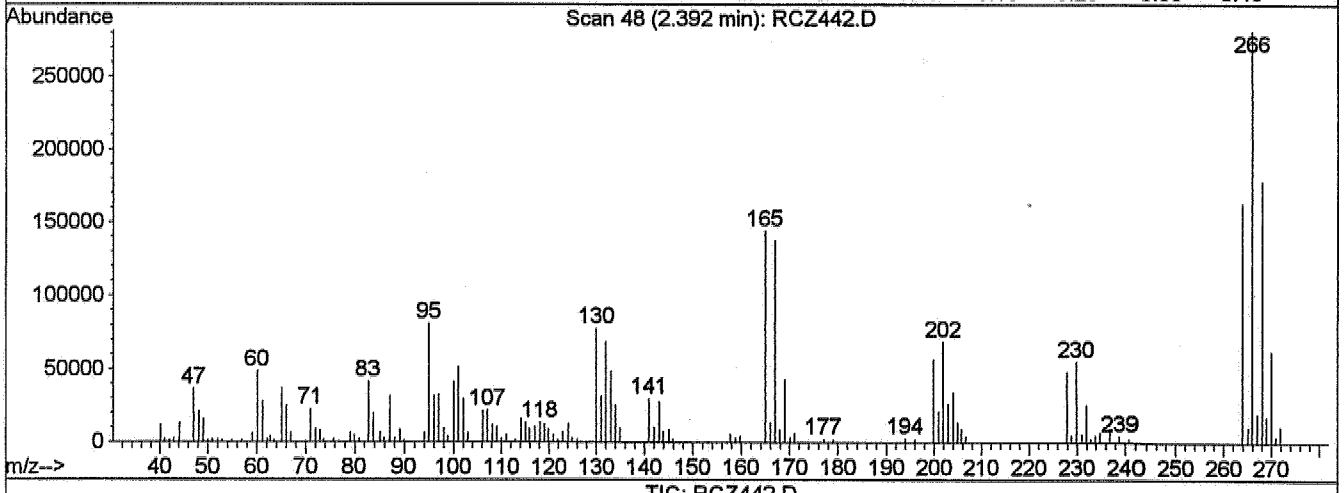
RCZ442.D DFTPPSIM.M Thu Mar 30 09:41:48 2006 TO48

Quantitation Report

Data File : D:\CHEMDATA\06C29\RCZ442.D Vial: 2
Acq On : 29 MAR 2006 14:30 Operator: KV
Sample : DFT48C0214 Inst : TO48
Misc : Multiplr: 1.00
Quant Time: Mar 29 14:37 2006 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPSIM.M (RTE Integrator)
Title : DFTPP TUNE 8270C SHIMADZU GCMS-QP5000
Last Update : Mon Sep 26 16:25:49 2005
Response via : Single Level Calibration





TIC: RCZ442.D

(1) Pentachlorophenol

2.39min 137.31ng

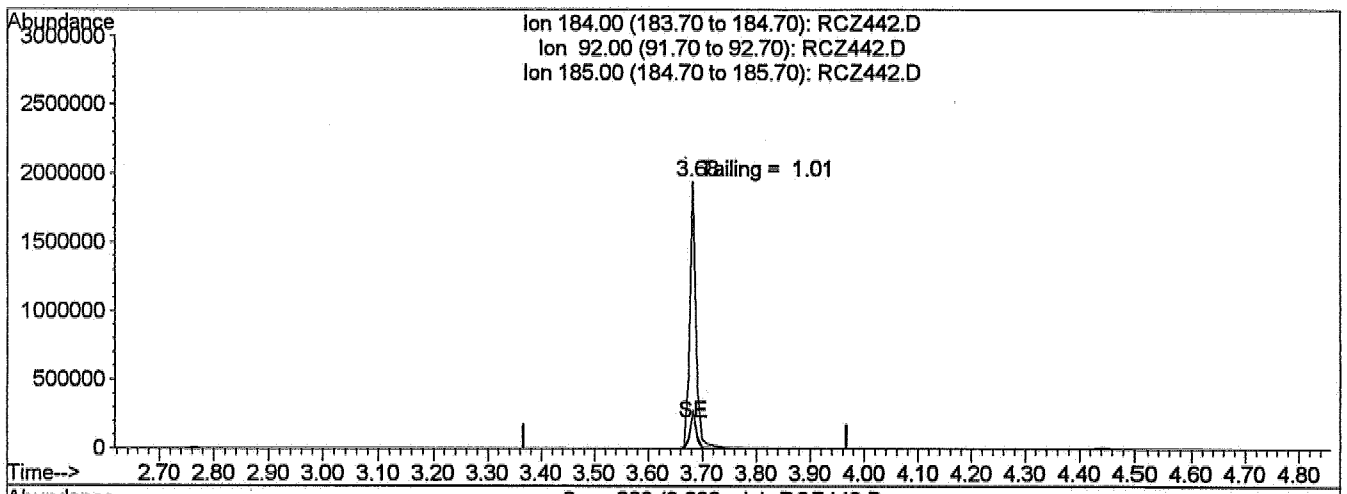
response 336799

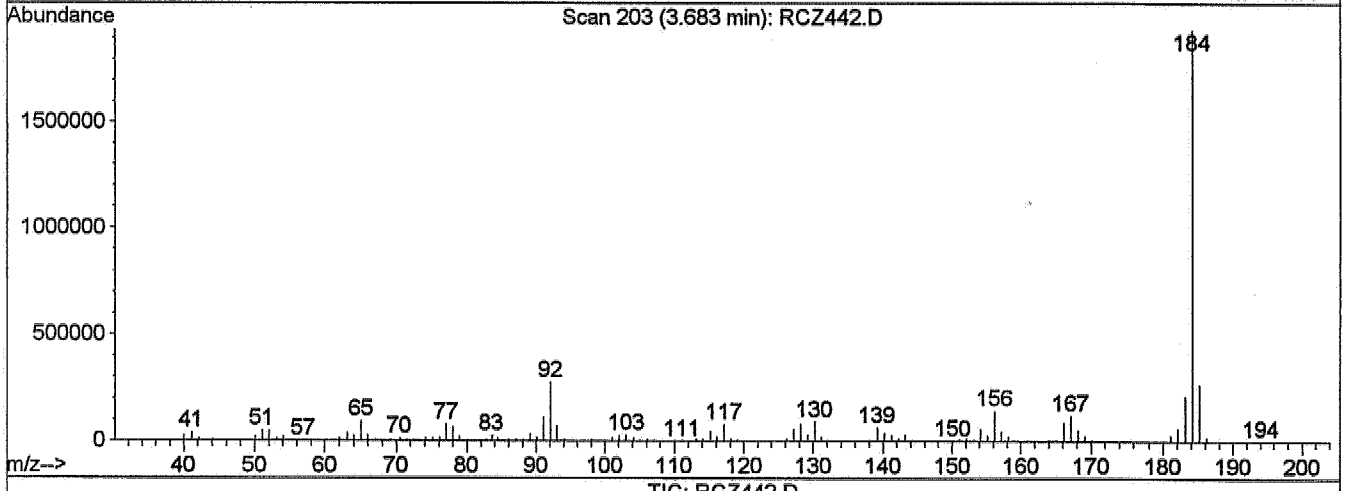
Ion	Exp%	Act%
266.00	100	100
264.00	57.20	58.06
268.00	59.90	63.35
0.00	0.00	0.00

Quantitation Report

Data File : D:\CHEMDATA\06C29\RCZ442.D Vial: 2
Acq On : 29 MAR 2006 14:30 Operator: KV
Sample : DFT48C0214 Inst : TO48
Misc : Multiplr: 1.00
[illegible] Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPSIM.M (RTE Integrator)
Title : DFTPP TUNE 8270C SHIMADZU GCMS-QP5000
Last Update : Mon Sep 26 16:25:49 2005
Response via : Single Level Calibration





TIC: RCZ442.D

(3) Benzidine

3.68min 163.89ng

response 1555563

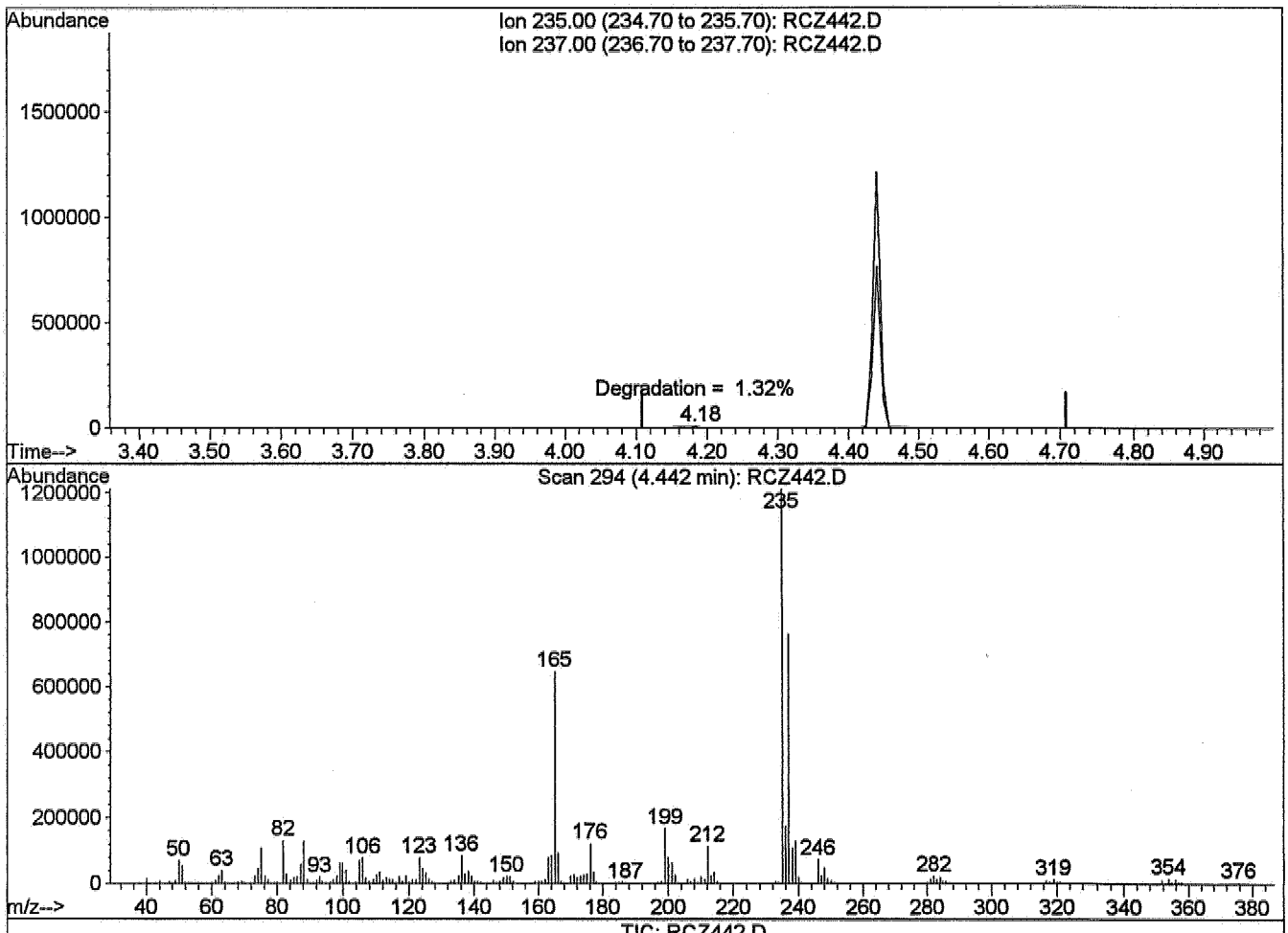
Ion	Exp%	Act%
184.00	100	100
92.00	23.50	14.19
185.00	14.10	13.75
0.00	0.00	0.00

Quantitation Report

Data File : D:\CHEMDATA\06C29\RCZ442.D
Acq On : 29 MAR 2006 14:30
Sample : DFT48C0214
Misc :
Integration Params: rteint.p

Vial: 2
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPSIM.M (RTE Integrator)
Title : DFTPP TUNE 8270C SHIMADZU GCMS-QP5000
Last Update : Mon Sep 26 16:25:49 2005
Response via : Single Level Calibration



TIC: RCZ442.D

(6) DDT

4.44min 225.73ng

response 902163

Ion	Exp%	Act%
235.00	100	100
237.00	65.50	63.05
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data File : D:\CHEMDATA\06C29\RCZ443.D Vial: 3
Acq On : 29 MAR 2006 15:20 Operator: KV
Sample : CSV48C0214 Inst : TO48
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
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	I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	94	0.00
2	T	N-Nitrosodimethylamine	10.000	6.800	32.0#	66	0.02
3	S	Phenol-d5	10.000	12.197	-22.0#	108	0.02
4	T	Phenol	10.000	12.173	-21.7#	105	0.02
5	T	Bis(2-chloroethyl)ether	10.000	10.262	-2.6	98	0.00
6	T	2-Chlorophenol	10.000	9.212	7.9	82	0.00
7	P	N-Nitroso-di-n-propylamine	10.000	11.415	-14.1	102	0.00
8	T	2,4-Dimethylphenol	10.000	8.129	18.7	81	0.00
9	T	2,4-Dichlorophenol	10.000	9.908	0.9	90	0.00
10	T	Naphthalene	10.000	8.450	15.5	81	0.00
11	T	4-Chloro-3-methylphenol	10.000	11.400	-14.0	107	0.02
12	T	2-Methylnaphthalene	10.000	9.074	9.3	85	0.01
13	T	1-Methylnaphthalene	10.000	9.433	5.7	92	0.00
14	T	2,4,6-Trichlorophenol	10.000	9.083	9.2	85	0.00
15	T	2,4,5-Trichlorophenol	10.000	10.264	-2.6	95	-0.03
16	T	Acenaphthylene	10.000	9.247	7.5	89	0.00
17	C	Acenaphthene	10.000	8.580	14.2	87	0.00
18	T	Fluorene	10.000	9.546	4.5	92	0.00
19	T	Azobenzene	10.000	10.969	-9.7	101	0.00
20	I	Phenanthrene-d10	10.000	10.000	0.0	101	0.02
21	T	Hexachlorobenzene	10.000	10.729	-7.3	111	0.00
22	T	Pentachlorophenol	10.000	9.719	2.8	93	0.00
23	T	Phenanthrene	10.000	8.968	10.3	95	0.02
24	T	Anthracene	10.000	8.725	12.8	89	0.00
25	C	Fluoranthene	10.000	9.750	2.5	100	0.02
26	T	Pyrene	10.000	9.253	7.5	95	0.00
27	S	Terphenyl-d14	10.000	8.970	10.3	93	0.00
28	I	Perylene-d12	10.000	10.000	0.0	90	0.02
29	T	Benzo(a)anthracene	10.000	11.369	-13.7	108	0.02
30	T	Chrysene	10.000	9.996	0.0	93	0.02
31	T	bis(2-Ethylhexyl)phthalate	10.000	11.888	-18.9	102	0.00
32	T	Benzo(b)fluoranthene	10.000	11.992	-19.9	102	0.02
33	T	Benzo(k)fluoranthene	10.000	8.842	11.6	78	0.00
34	C	Benzo(a)pyrene	10.000	10.897	-9.0	93	0.02
35	T	Indeno(1,2,3-cd)pyrene	10.000	10.511	-5.1	90	0.02
36	T	Dibenzo(a,h)anthracene	10.000	10.634	-6.3	90	0.02
37	T	Benzo(g,h,i)perylene	10.000	9.443	5.6	84	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\CHEMDATA\06C29\RCZ443.D Vial: 3
Acq On : 29 MAR 2006 15:20 Operator: KV
Sample : CSV48C0214 Inst : TO48
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
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	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
2	T	N-Nitrosodimethylamine	1.763	1.199	32.0#	66	0.02
3	S	Phenol-d5	1.501	1.831	-22.0#	108	0.02
4	T	Phenol	1.705	2.076	-21.8#	105	0.02
5	T	Bis(2-chloroethyl)ether	1.378	1.414	-2.6	98	0.00
6	T	2-Chlorophenol	1.671	1.540	7.8	82	0.00
7	P	N-Nitroso-di-n-propylamine	0.655	0.747	-14.0	102	0.00
8	T	2,4-Dimethylphenol	1.062	0.863	18.7	81	0.00
9	T	2,4-Dichlorophenol	1.100	1.090	0.9	90	0.00
10	T	Naphthalene	3.766	3.182	15.5	81	0.00
11	T	4-Chloro-3-methylphenol	1.068	1.218	-14.0	107	0.02
12	T	2-Methylnaphthalene	2.131	1.934	9.2	85	0.01
13	T	1-Methylnaphthalene	1.843	1.739	5.6	92	0.00
14	T	2,4,6-Trichlorophenol	0.605	0.550	9.1	85	0.00
15	T	2,4,5-Trichlorophenol	0.599	0.615	-2.7	95	-0.03
16	T	Acenaphthylene	3.041	2.812	7.5	89	0.00
17	C	Acenaphthene	1.848	1.586	14.2	87	0.00
18	T	Fluorene	2.034	1.942	4.5	92	0.00
19	T	Azobenzene	2.185	2.397	-9.7	101	0.00
20	I	Phenanthrene-d10	1.000	1.000	0.0	101	0.02
21	T	Hexachlorobenzene	0.364	0.390	-7.1	111	0.00
22	T	Pentachlorophenol	0.724	0.704	2.8	93	0.00
23	T	Phenanthrene	1.628	1.460	10.3	95	0.02
24	T	Anthracene	1.628	1.421	12.7	89	0.00
25	C	Fluoranthene	1.375	1.340	2.5	100	0.02
26	T	Pyrene	1.449	1.341	7.5	95	0.00
27	S	Terphenyl-d14	0.524	0.470	10.3	93	0.00
28	I	Perylene-d12	1.000	1.000	0.0	90	0.02
29	T	Benzo(a)anthracene	2.074	2.358	-13.7	108	0.02
30	T	Chrysene	2.171	2.170	0.0	93	0.02
31	T	bis(2-Ethylhexyl)phthalate	2.397	2.850	-18.9	102	0.00
32	T	Benzo(b)fluoranthene	1.787	2.143	-19.9	102	0.02
33	T	Benzo(k)fluoranthene	2.072	1.832	11.6	78	0.00
34	C	Benzo(a)pyrene	1.823	1.987	-9.0	93	0.02
35	T	Indeno(1,2,3-cd)pyrene	2.174	2.285	-5.1	90	0.02
36	T	Dibenzo(a,h)anthracene	1.604	1.706	-6.4	90	0.02
37	T	Benzo(g,h,i)perylene	2.017	1.905	5.6	84	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : D:\CHEMDATA\06C29\RCZ443.D
Acq On : 29 MAR 2006 15:20
Sample : CSV48C0214
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 30 9:38 2006

Vial: 3
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Quant Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration
DataAcq Meth :

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	2.76	152	195731	10.00	ng		0.00
20) Phenanthrene-d10	6.76	188	335897	10.00	ng		0.02
28) Perylene-d12	10.48	264	141484	10.00	ng		0.02
System Monitoring Compounds							
3) Phenol-d5	2.49	99	358367	12.20	ng		0.02
27) Terphenyl-d14	8.28	244	157967	8.97	ng		0.00
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	1.31	74	234609	6.80	ng	#	22
4) Phenol	2.51	94	406254	12.17	ng		82
5) Bis(2-chloroethyl)ether	2.58	93	276712	10.26	ng		82
6) 2-Chlorophenol	2.61	128	301328	9.21	ng		88
7) N-Nitroso-di-n-propylamine	3.08	70	146265	11.42	ng	#	60
8) 2,4-Dimethylphenol	3.52	122	168930	8.13	ng		77
9) 2,4-Dichlorophenol	3.68	162	213390	9.91	ng		98
10) Naphthalene	3.82	128	622889	8.45	ng		96
11) 4-Chloro-3-methylphenol	4.33	107	238338	11.40	ng		73
12) 2-Methylnaphthalene	4.44	142	378572	9.07	ng		95
13) 1-Methylnaphthalene	4.53	142	340295	9.43	ng		90
14) 2,4,6-Trichlorophenol	4.69	196	107605	9.08	ng		84
15) 2,4,5-Trichlorophenol	4.73	196	120347	10.26	ng		89
16) Acenaphthylene	5.25	152	550468	9.25	ng		94
17) Acenaphthene	5.41	154	310405	8.58	ng		97
18) Fluorene	5.89	166	380070	9.55	ng		98
19) Azobenzene	6.06	77	469194	10.97	ng		96
21) Hexachlorobenzene	6.39	142	131083	10.73	ng	#	73
22) Pentachlorophenol	6.58	266	236371	9.72	ng		87
23) Phenanthrene	6.78	178	490432	8.97	ng		92
24) Anthracene	6.83	178	477264	8.73	ng		98
25) Fluoranthene	7.89	202	450167	9.75	ng		84
26) Pyrene	8.09	202	450423	9.25	ng		90
29) Benzo(a)anthracene	9.23	228	333553	11.37	ng		95
30) Chrysene	9.27	228	307074	10.00	ng		93
31) bis(2-Ethylhexyl)phthalate	9.35	149	403164	11.89	ng		94
32) Benzo(b)fluoranthene	10.18	252	303164	11.99	ng		78
33) Benzo(k)fluoranthene	10.19	252	259162	8.84	ng		92
34) Benzo(a)pyrene	10.43	252	281073	10.90	ng		76
35) Indeno(1,2,3-cd)pyrene	11.29	276	323308	10.51	ng		82
36) Dibenzo(a,h)anthracene	11.31	278	241346	10.63	ng		79
37) Benzo(g,h,i)perylene	11.48	276	269538	9.44	ng		76

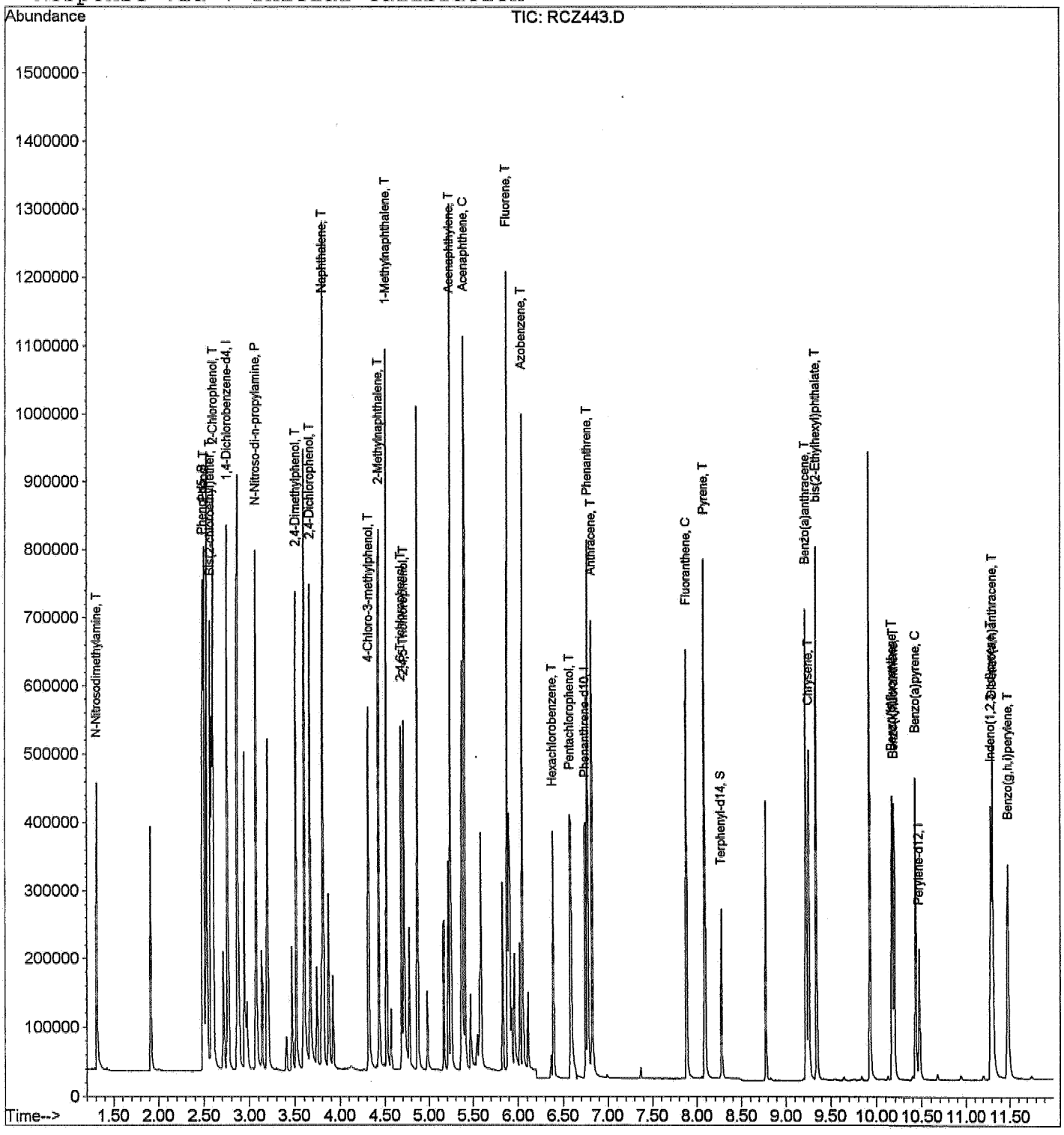
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\CHEMDATA\06C29\RCZ443.D
Acq On : 29 MAR 2006 15:20
Sample : CSV48C0214
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 30 9:38 2006

Vial: 3
Operator: KV
Inst : TO48
Multiplr: 1.00
Quant Results File: SV48C02.RES

Method : C:\HPCHEM\1\METHODS\SV48C02.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000
Last Update : Mon Mar 06 10:16:41 2006
Response via : Initial Calibration



ANALYTICAL LOG

ANALYSIS RUN LOG FOR SEMIVOLATILES

SOP ☐ EMAX-8270 Rev. No. 2 ☑ EMAX-8270SIM Rev. No. 0 ☐ EMAX-CLPSVOA ☐ EMAX-M8270SIM Rev. No. 1 ☐ Book #48- 012

Method File: SV48C02 Tune File: Sim Start Date/Time: 3/2/06 19:31 End Date/Time: 3/2/06 23:13

ANALYTICAL BATCH SV48C026

Preparative Batch	Data File Name	Run ID	DF	Matrix S	Matrix W	Notes
NA	RC2046	IB48C02C1	NA			
↓	047	DFT48C02C1	↓			
	048	SV48C02 1				0.15ppm
	049	2				0.5
	050	3				1
	051	4				2
	052	5				5
	053	6				10
	054	7				20
	055	MV 8				40
	056	3/2/06 ↓ 9				80
	057	ISV48C02 10				100
	058	ISV48C02 1				10 ICV
↓	059	↓ 2	↓			10 ICV
						MV 3/2/06

Instrument No:	48

INITIAL CALIBRATION REFERENCE	
Date	3/2/06
ICAL ID	SV48C02

Standards		
Name	ID	Conc. (mg/L)
DFTPP	SS2B-04-21-3	50
DCC	SS2C-04-76-2	10
INT. STD.	SS2B-04-25-1	2000
ICV	SS2C-04-77-1	10
0.15	SS2C-04-76-1	0.15

Solvent	ID
CH_2Cl_2	45257

DATA FILE	06C02

Electronic Data Archival	
Location	Date
HPCHEM_SVOA/T048	3/6/06

Comments:

SURR : SS2C-04-76-3 40-100 ppm

Analyzed By: MV

Date Disposed: NA

Disposed by: NA

This page is checked during data review.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR SEMIVOLATILES

SOP ☐ EMAX-8270 Rev. No. 2 ☑ EMAX-8270SIM Rev. No. 0 ☐ EMAX-CLPSVOA ☐ EMAX-M8270SIM Rev. No. 1 ☐ Book #A48- 013

Method File: SV48C02 **Tune File:** 8270SIM **Start Date/Time:** 3/29/06 14:30 **End Date/Time:** 3/29/06 21:58

ANALYTICAL BATCH CSV4XC0214

Preparative Batch	Data File Name	Run ID	DF	Matrix S	Matrix W	Notes
	RC2441	IB48C0214				
	442	DFT48C0214				
	443	CSV48C0214				
SVC031W	444	SVC031WB	NA		x	
↓	445	WL	8		↓	
	446	WC	8			
	447	06C204-01	NA			
↓	448	06C239-01	NA		↓	
SVC034S	449	SVC034SB	NA	x		
	450	SL		↓		
	451	SC				
	452	06C241-01				
	453	02				
	454	06C242-01				
	455	02				
	456	05				
	457	07				
	458	08				
	459	10				
	460	11	↓			
	461	04T	10			Dark Color
↓	↓462	04	NA	↓		Repost
						KV
						3/29/06

Instrument No:	48

INITIAL CALIBRATION REFERENCE	
Date	3/2/06
ICAL ID	SV48C02

Standards		
Name	ID	Conc. (mg/L)
DFTPP	SS2B-04-21-3	50
DCC	SS2C-04-76-2	10
INT. STD.	SS2B-04-27-3	2000

Solvent	ID	
CH_2Cl_2	453x2	

DATA FILE	06C29

Electronic Data Archival	
Location	Date
HPCHEM_SVOA/T048	3/30/06

Comments: No need for dilution on C242-04

Analyzed By: KV

Date Disposed: 3/30/06

Disposed by: KV

This page is checked during data review.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

EXTRACTION LOG

EXTRACTION LOG FOR SEMIVOLATILES

SOP ☐ EMAX-3540 Rev. No.: 0 ☐ EMAX-3510 Rev. No.: 1 ☐ EMAX-3550 Rev. No.: 1 ☐ EMAX-3520 Rev. No.: 2 ☐ EMAX-CLP-SVOA ☐ Book # ESV-030

Matrix: WATER Init.Start Date/Time: 3/27/06 11:00 End Date/Time: 3/28/06 5:00 Final Start Date/Time: 3/28/06 12:00 End Date/Time: 3/29/06 6:00

PREPARATION BATCH: * UVC 031 WT

Sample Prep ID	Lab Sample ID	Sonicator Number	Sample Amount (g/ml)	pH	Extract Volume (ml)	Clean-up [G] [F] [A] [C]	Notes
*01	UVC 031 - WB	N/A	1000	-	1		
*02	- WL		1000	-	1		
*03	- WC		1000	-	1		
*04	06C 204 - 01		1060	7	1		
*05	06C 206 - 01		1000	6	1		Brown Soln.
*06	06C 239 - 01		1060	5	1		
*07							
*08							
*09							
*10							
*11							
*12							ML
*13							3/27/06
*14							
*15							
*16							
*17							
*18							
*19							
*20							
*21							
*22							
*23							
*24							★ SPIKE OCTACHLORO Styrene
*25							
*26							
*27							
*28							

Standards	ID	Amount Added (ml)
Surrogate	USZB-04-24-1	1.0
LCS/MS EXACT 455	USZB-04-27-2	0.4
LCS★	USZB-04-26-1	0.4
Reagent	**Lot# / ID**	
CH_2Cl_2	45342	
Na_2SO_4	45045	
H_2SO_4	45105	
NaOH	SPIB-01-307	
Silica Sand		

TUNING

Sonicator #	Reading
	N/A

Concentrator	Water Bath Temperature Setting (°C)	Thermometer Reading (°C)
1	35	35
2		
3		
4		
5		
6		

Comments: Thermometer ID = T_1

Prepared By: JM Witnessed By: JM

Standard Added By: ML

Checked By: ML

Extract Received by: SM 3/29/06 Location: SE03-8

Disposed by: Disposed on:

Clean-up Legend :[G]=GPC [A]=Acid [F]=Florisil [S]=Silica

MAXXAM LABORATORIES, INC. 1835 W. 213th St. Torrance, CA 90501

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 06C204

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C204

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Three (3) water samples were received on 03/23/06 for Total Petroleum Hydrocarbons by purge and trap analysis by Method 5030B/8015B in accordance with SW846, 3rd edition.

1. Holding Time

Analytical holding time was met. Samples were preserved.

2. Calibration

Initial calibration was seven points. %RSDs were within 20%. Continuing calibrations were carried out every 12 hours and at the end of the analysis sequence. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

All recoveries were within QC limits.

5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met. Results were quantified from C6 to C10 using GRO (C6-C10) calibration factor.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C204
Instrument ID : GCT039

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	VA39C12B	1	NA	03/23/0611:18	03/23/0611:18	EC23003A	EC23002A	VA39C12	Method Blank
LCS1W	VA39C12L	1	NA	03/23/0611:57	03/23/0611:57	EC23004A	EC23002A	VA39C12	Lab Control Sample (LCS)
LCD1W	VA39C12C	1	NA	03/23/0613:14	03/23/0613:14	EC23006A	EC23002A	VA39C12	LCS Duplicate
M-120	C204-01	1	NA	03/23/0618:24	03/23/0618:24	EC23014A	EC23013A	VA39C12	Field Sample
TRIP BLANK	C204-02	1	NA	03/23/0619:02	03/23/0619:02	EC23015A	EC23013A	VA39C12	Field Sample
M-118	C204-03	1	NA	03/23/0619:40	03/23/0619:40	EC23016A	EC23013A	VA39C12	Field Sample

FN - Filename
% Moist - Percent Moisture

1902-1

SAMPLE RESULTS

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/23/06 18:24
Sample ID:	M-120	Date Analyzed:	03/23/06 18:24
Lab Samp ID:	C204-01	Dilution Factor:	1
Lab File ID:	EC23014A	Matrix :	WATER
Ext Btch ID:	VA39C12	% Moisture :	NA
Calib. Ref.:	EC23013A	Instrument ID :	GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	93	60-140

RL : Reporting Limit

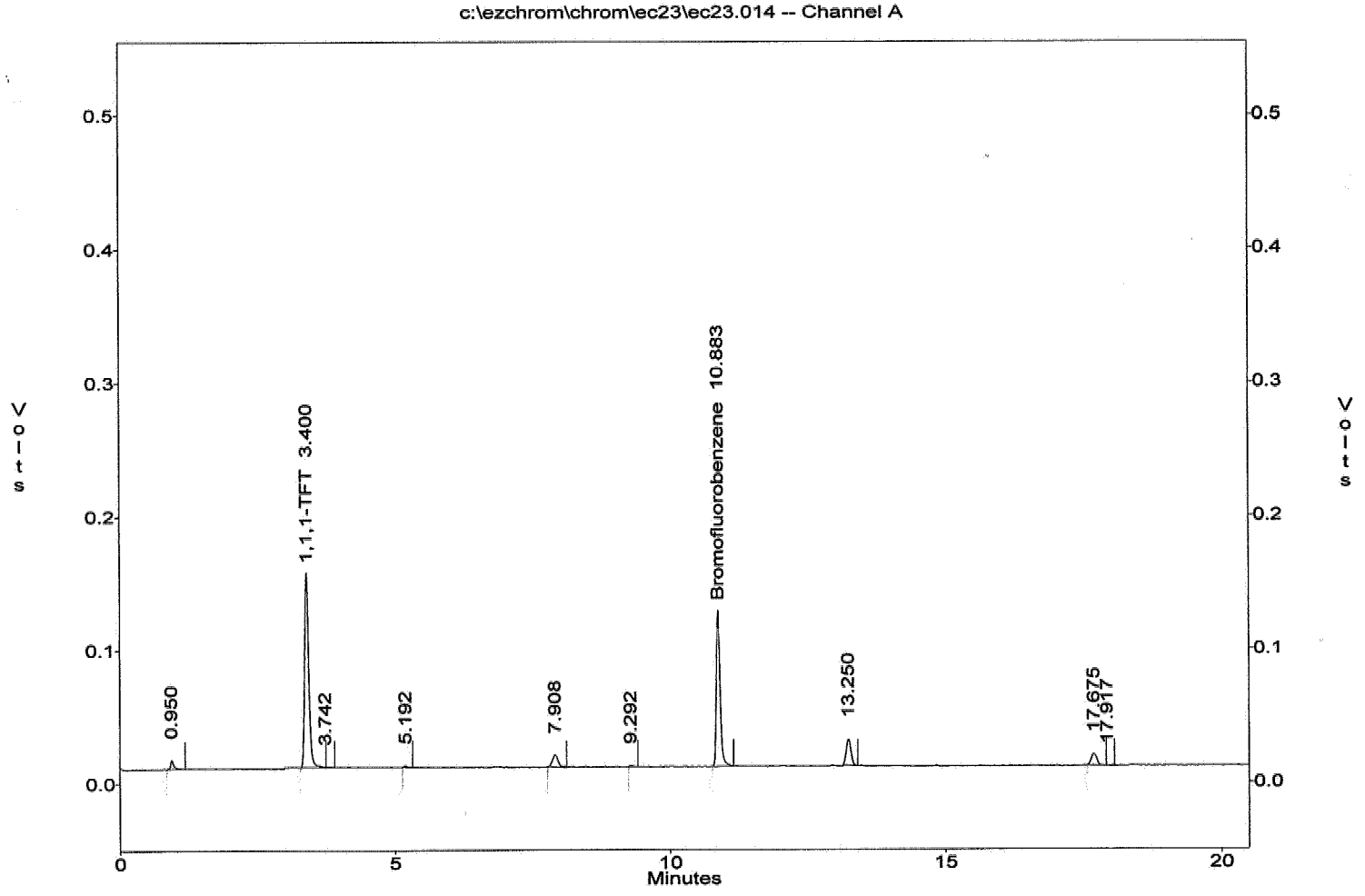
Parameter	H-C Range
GRO	C6-C10

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec23\ec23.014
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : 06C204-01 5.0ML W
Acquired : Mar 23, 2006 18:24:11
Printed : Mar 29, 2006 17:28:14
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
2	1,1,1-TFT	3.400	770838.0	21531.8	35.80
7	Bromofluorobenzene	10.883	559403.0	15026.0	37.23
G1	GASOLINE(TOTAL)		254527.0	15352.4	16.58
G2	GRO(C6-C10)		78289.0	12418.6	6.30
G3	GRO(2MP-124TMB)		78289.0	12455.2	6.29
G4	GRO(C5-C12)		254527.0	15149.8	16.80
G5	DSCRT PEAK (7.908)		64868.0	0.0	0.00
G6	DSCRT PEAK (13.250)		114352.0	0.0	0.00
G7	DSCRT PEAK (17.675)		59402.0	0.0	0.00



METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/23/06 19:02
Sample ID:	TRIP BLANK	Date Analyzed:	03/23/06 19:02
Lab Samp ID:	C204-02	Dilution Factor:	1
Lab File ID:	EC23015A	Matrix	: WATER
Ext Btch ID:	VA39C12	% Moisture	: NA
Calib. Ref.:	EC23013A	Instrument ID	: GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	92	60-140

RL : Reporting Limit

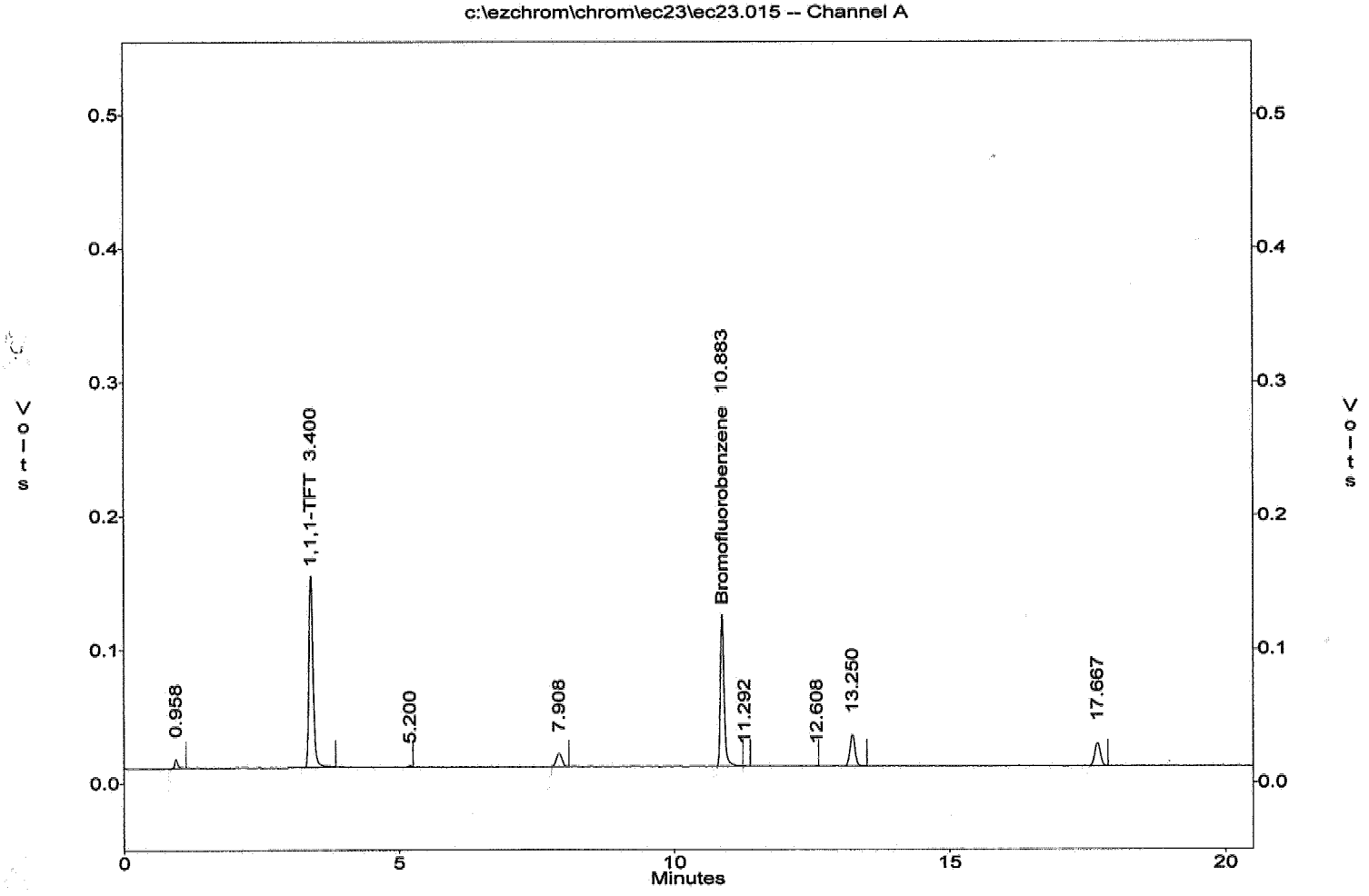
Parameter	H-C Range
GRO	C6-C10

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec23\ec23.015
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : 06C204-02 5.0ML W
Acquired : Mar 23, 2006 19:02:38
Printed : Mar 29, 2006 17:28:30
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
2	1,1,1-TFT	3.400	758007.0	21531.8	35.20
5	Bromofluorobenzene	10.883	555478.0	15026.0	36.97
G1	GASOLINE(TOTAL)		346752.0	15352.4	22.59
G2	GRO(C6-C10)		76116.0	12418.6	6.13
G3	GRO(2MP-124TMB)		76116.0	12455.2	6.11
G4	GRO(C5-C12)		346752.0	15149.8	22.89
G5	DSCRT PEAK (7.908)		68929.0	0.0	0.00
G6	DSCRT PEAK (13.250)		147632.0	0.0	0.00
G7	DSCRT PEAK (17.675)		123004.0	0.0	0.00



METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/23/06 19:40
Sample ID:	M-118	Date Analyzed:	03/23/06 19:40
Lab Samp ID:	C204-03	Dilution Factor:	1
Lab File ID:	EC23016A	Matrix :	WATER
Ext Btch ID:	VA39C12	% Moisture :	NA
Calib. Ref.:	EC23013A	Instrument ID :	GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	91	60-140

RL : Reporting Limit

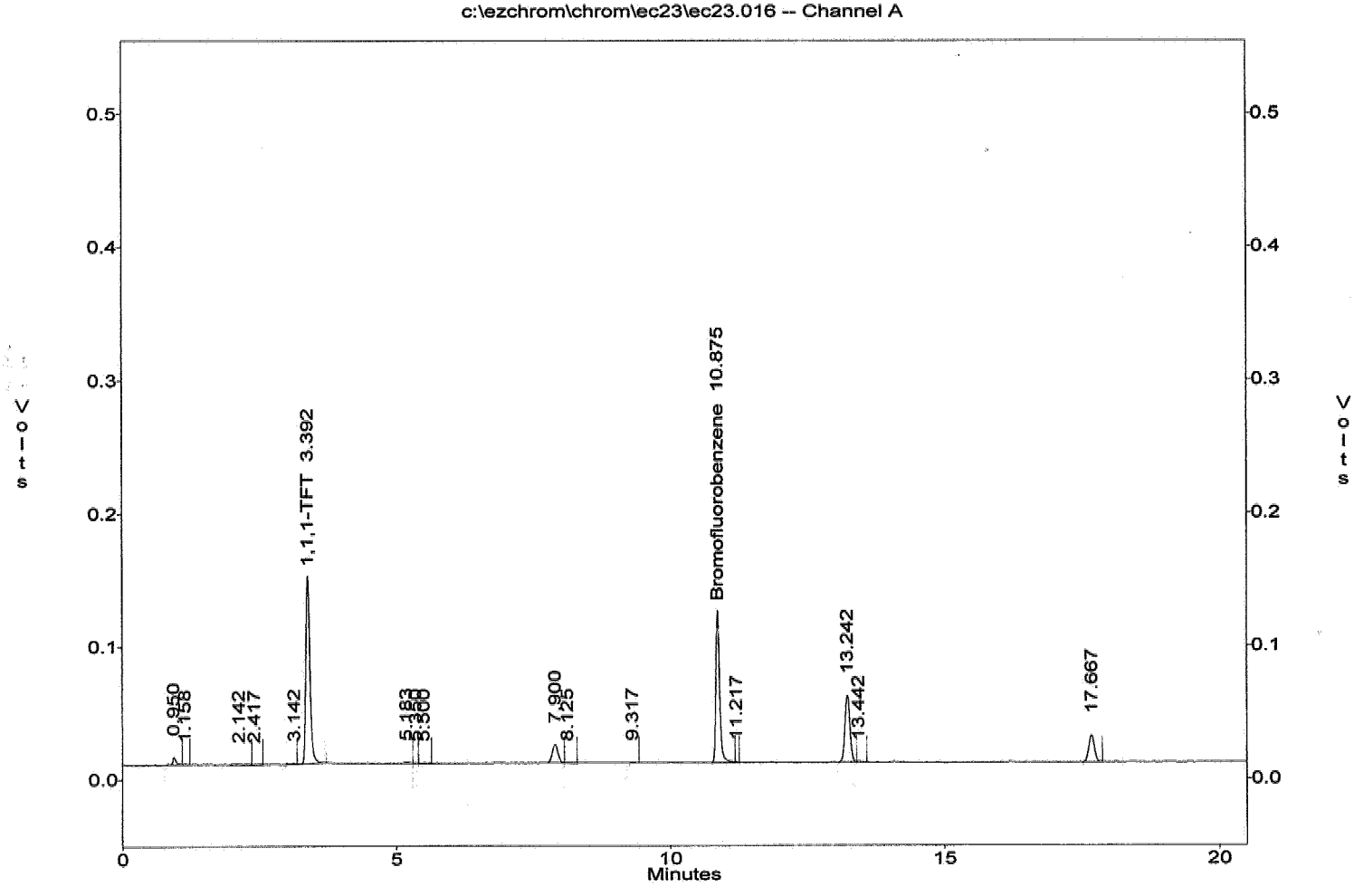
Parameter	H-C Range
GRO	C6-C10

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec23\ec23.016
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : 06C204-03 5.0ML W
Acquired : Mar 23, 2006 19:40:57
Printed : Mar 29, 2006 17:28:45
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
6	1,1,1-TFT	3.392	744434.0	21531.8	34.57
13	Bromofluorobenzene	10.875	546443.0	15026.0	36.37
G1	GASOLINE(TOTAL)		611831.0	15352.4	39.85
G2	GRO(C6-C10)		149079.0	12418.6	12.00
G3	GRO(2MP-124TMB)		149079.0	12455.2	11.97
G4	GRO(C5-C12)		611831.0	15149.8	40.39
G5	DSCRT PEAK (7.908)		99497.0	0.0	0.00
G6	DSCRT PEAK (13.250)		314056.0	0.0	0.00
G7	DSCRT PEAK (17.675)		142137.0	0.0	0.00



QC SUMMARIES

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/23/06 11:18
Sample ID:	MBLK1W	Date Analyzed:	03/23/06 11:18
Lab Samp ID:	VA39C12B	Dilution Factor:	1
Lab File ID:	EC23003A	Matrix	: WATER
Ext Btch ID:	VA39C12	% Moisture	: NA
Calib. Ref.:	EC23002A	Instrument ID	: GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	95	70-130

RL : Reporting Limit

Parameter	H-C Range
GRO	C6-C10

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: METHOD 5030B/8015B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VA39C12B	VA39C12L	VA39C12C		
LAB FILE ID:	EC23003A	EC23004A	EC23006A		
DATE EXTRACTED:	03/23/0611:18	03/23/0611:57	03/23/0613:14	DATE COLLECTED:	NA
DATE ANALYZED:	03/23/0611:18	03/23/0611:57	03/23/0613:14	DATE RECEIVED:	03/23/06
PREP. BATCH:	VA39C12	VA39C12	VA39C12		
CALIB. REF:	EC23002A	EC23002A	EC23002A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
GRO	ND	.5	.403	81	.5	.378	76	6	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.04	.0409	102	.04	.0408	102	70-130

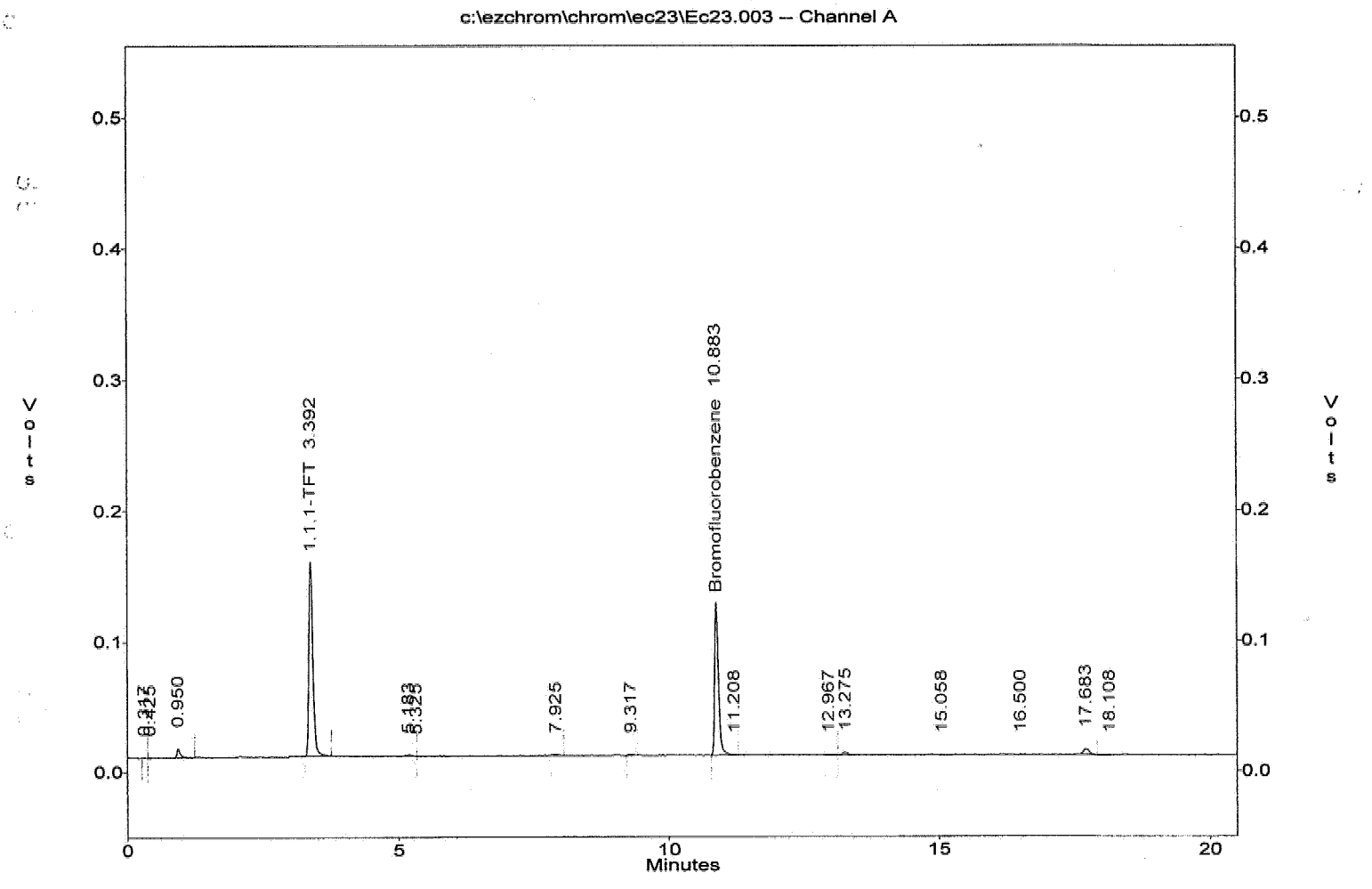
QC DATA

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec23\Ec23.003
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : VA39C12B 5.0ML W
Acquired : Mar 23, 2006 11:18:46
Printed : Mar 23, 2006 11:39:18
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
4	1,1,1-TFT	3.392	776578.0	21531.8	36.07
9	Bromofluorobenzene	10.883	572434.0	15026.0	38.10
G1	GASOLINE(TOTAL)		78588.0	15352.4	5.12
G2	GRO(C6-C10)		25791.0	12418.6	2.08
G3	GRO(2MP-124TMB)		22024.0	12455.2	1.77
G4	GRO(C5-C12)		78588.0	15149.8	5.19

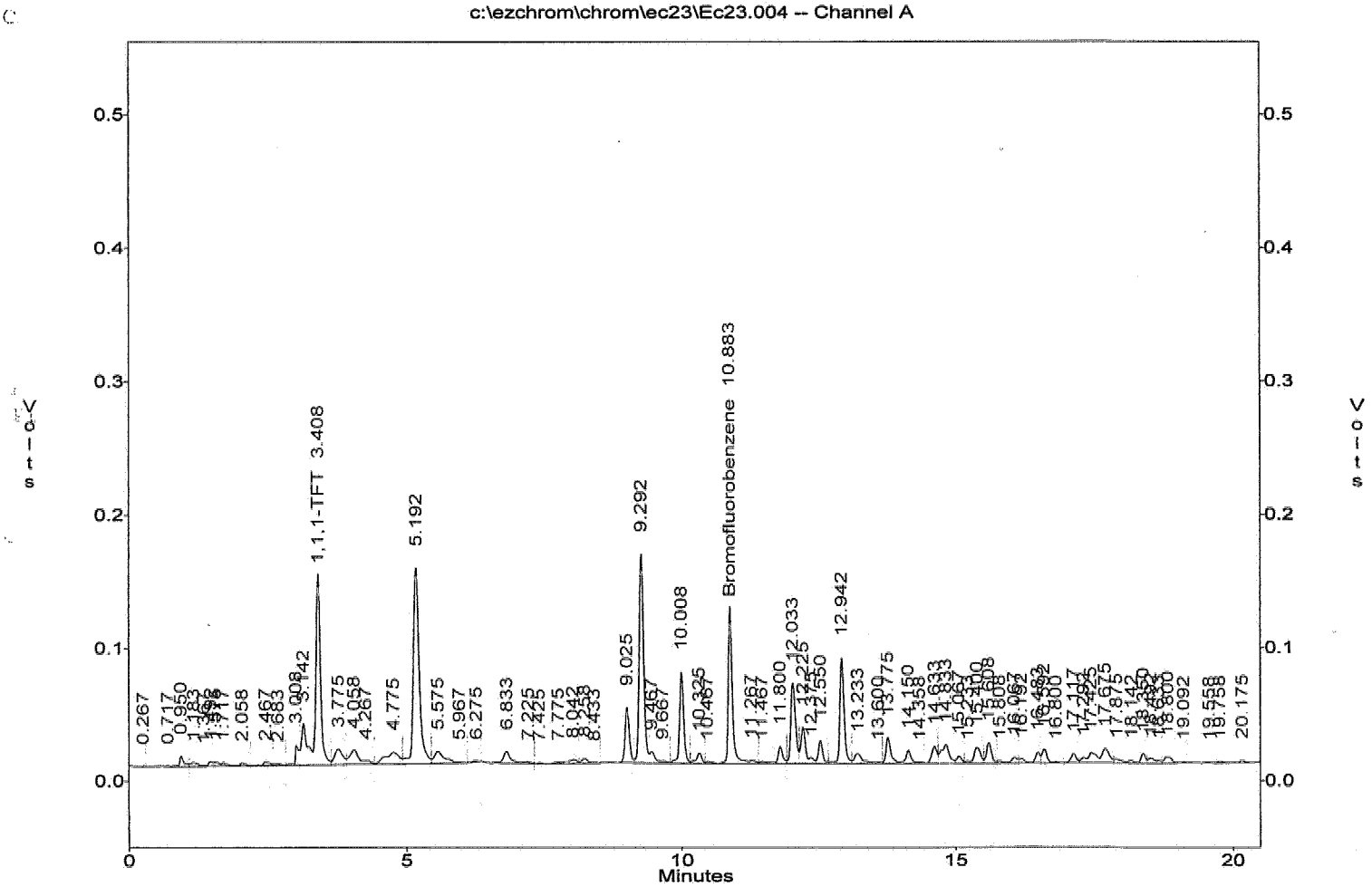


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec23\Ec23.004
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : VA39C12L 5.0ML W
Acquired : Mar 23, 2006 11:57:21
Printed : Mar 23, 2006 12:17:53
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
14	1,1,1-TFT	3.408	818832.0	21531.8	38.03
37	Bromofluorobenzene	10.883	613945.0	15026.0	40.86
G1	GASOLINE(TOTAL)		6438364.0	15352.4	419.37
G2	GRO(C6-C10)		5001555.0	12418.6	402.75
G3	GRO(2MP-124TMB)		5041529.0	12455.2	404.77
G4	GRO(C5-C12)		6402946.0	15149.8	422.64

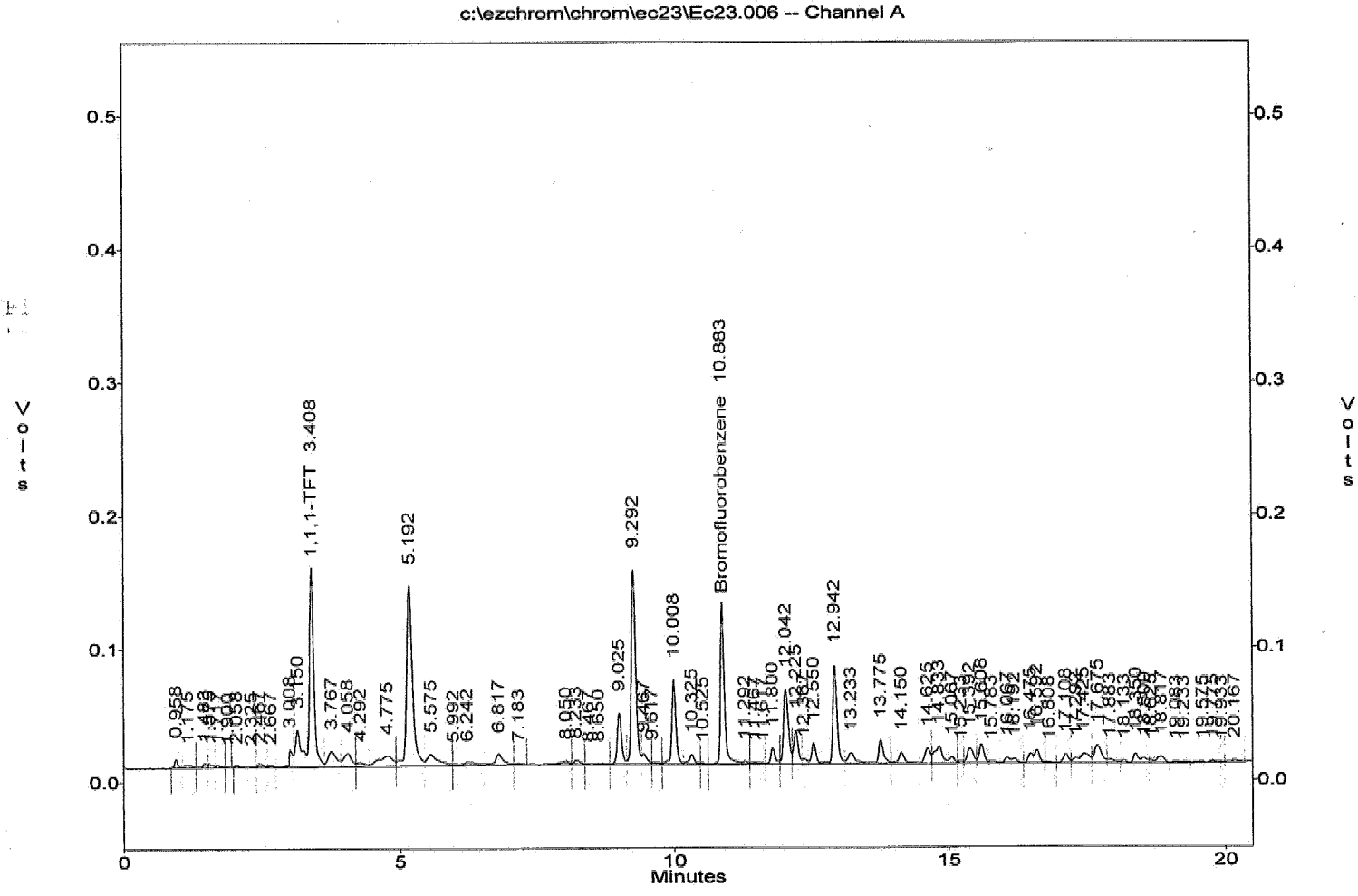


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec23\Ec23.006
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : VA39C12C 5.0ML W
Acquired : Mar 23, 2006 13:14:41
Printed : Mar 23, 2006 13:35:13
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.408	838451.0	21531.8	38.94
35	Bromofluorobenzene	10.883	612328.0	15026.0	40.75
G1	GASOLINE(TOTAL)		6118174.0	15352.4	398.52
G2	GRO(C6-C10)		4692517.0	12418.6	377.86
G3	GRO(2MP-124TMB)		4725536.0	12455.2	379.40
G4	GRO(C5-C12)		6009876.0	15149.8	396.70

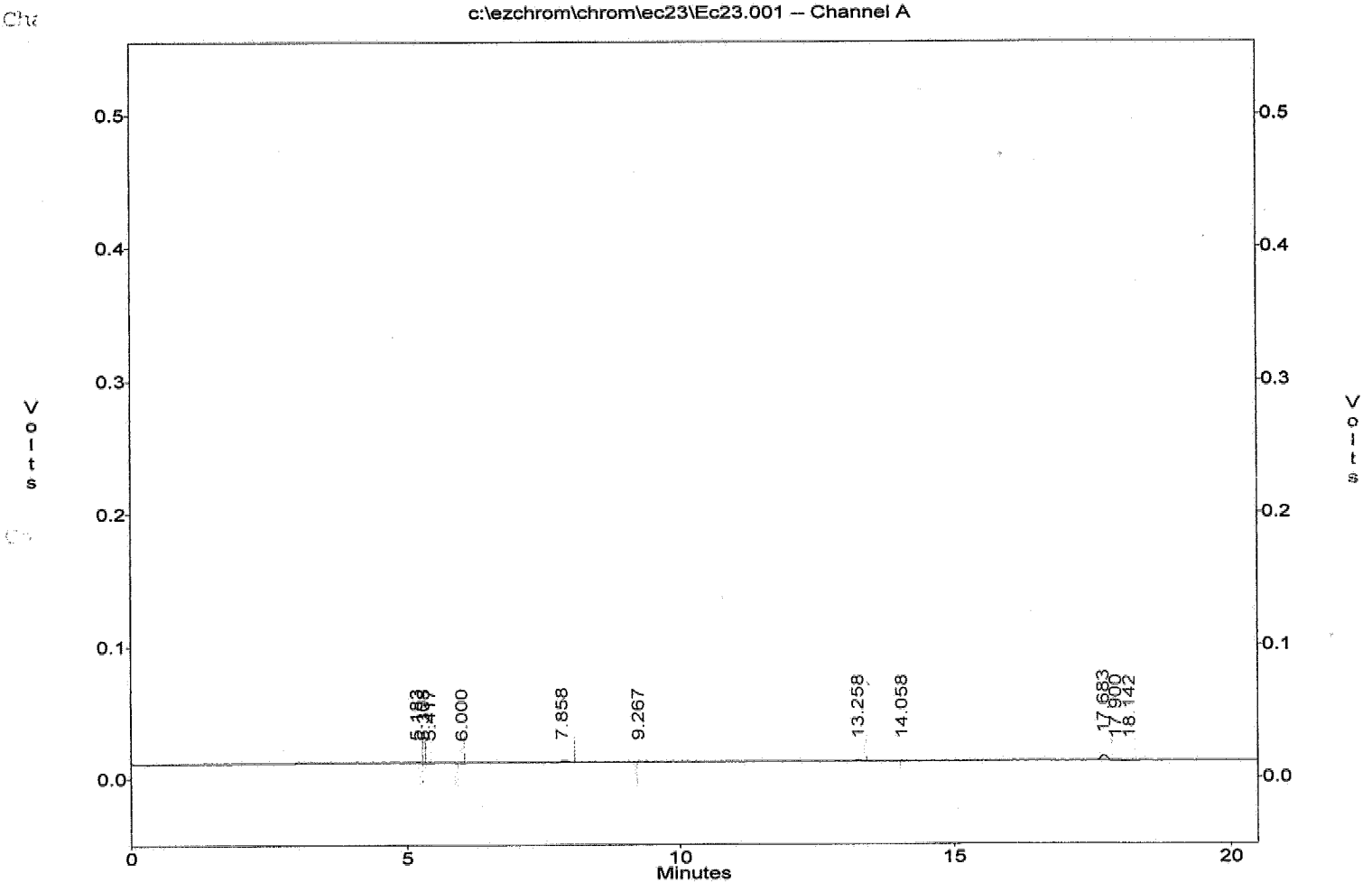


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec23\Ec23.001
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : IB39C804
Acquired : Mar 23, 2006 10:01:54
Printed : Mar 23, 2006 10:22:26
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
--	Bromofluorobenzene	10.850	0.0	0.0	0.00
G1	GASOLINE(TOTAL)		59386.0	15352.4	3.87
G2	GRO(C6-C10)		17796.0	12418.6	1.43
G3	GRO(2MP-124TMB)		17796.0	12455.2	1.43
G4	GRO(C5-C12)		59386.0	15149.8	3.92



INITIAL CALIBRATION

INITIAL CALIBRATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
LFID & Datetime: EC03019A 03/03/06 23:46
LFID & Datetime: EC03020A 03/04/06 00:24
LFID & Datetime: EC03021A 03/04/06 01:02
LFID & Datetime: EC03022A 03/04/06 01:40
LFID & Datetime: EC03023A 03/04/06 02:18
LFID & Datetime: EC03024A 03/04/06 02:57
LFID & Datetime: EC03025A 03/04/06 03:35
CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA)/UNIT 1.00X	2.50X	5.00X	25.00X	50.00X	100.00X	150.00X	MEAN	%RSD
Gasoline(TOTAL)	20.00	12417	13454	15665	15778	16779	16708	16666	15352.4	11.3
GRO(C6-C10)	20.00	9660	10361	13007	12779	13750	13695	13678	12418.6	13.7
GRO(2MP-124TMB)	20.00	9660	10361	13148	12809	13777	13723	13709	12455.2	13.8
GRO(C5-C12)	20.00	11591	13210	15575	15708	16713	16645	16607	15149.8	13.1
SURROGATE	**X**	**1.00X**	**2.00X**	**3.00X**	**4.00X**	**5.00X**	**7.50X**	**10.00X**	**MEAN**	**%RSD**
Bromofluorobenzene	10.00	12063	13106	13108	14879	17078	17312	17635	15026.0	15.5
1,1,1-Trifluorotoluene	10.00	17166	19380	19227	21362	23275	24612	25700	21531.8	14.6

VG39C03.MET

03/06/06

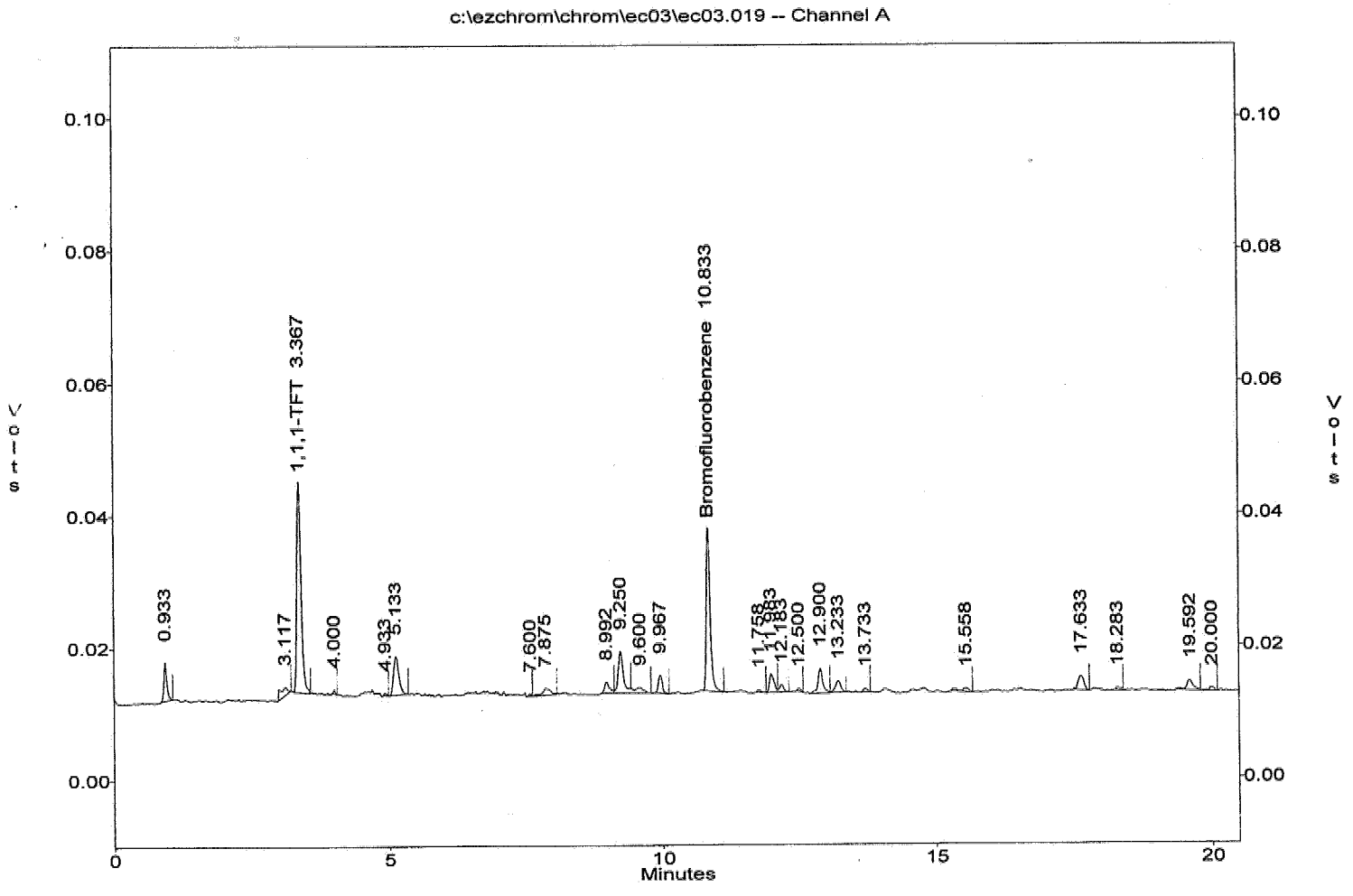
4019

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.019
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-01 20/10
Acquired : Mar 03, 2006 23:46:19
Printed : Mar 06, 2006 12:14:18
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
3	1,1,1-TFT	3.367	171660.0	21531.8	10.00
13	Bromofluorobenzene	10.833	120632.0	15026.0	10.00
G1	GASOLINE(TOTAL)		248347.0	15352.4	20.00
G2	GRO(C6-C10)		193196.0	12418.6	20.00
G3	GRO(2MP-124TMB)		193196.0	12455.2	20.00
G4	GRO(C5-C12)		231819.0	15149.8	20.00



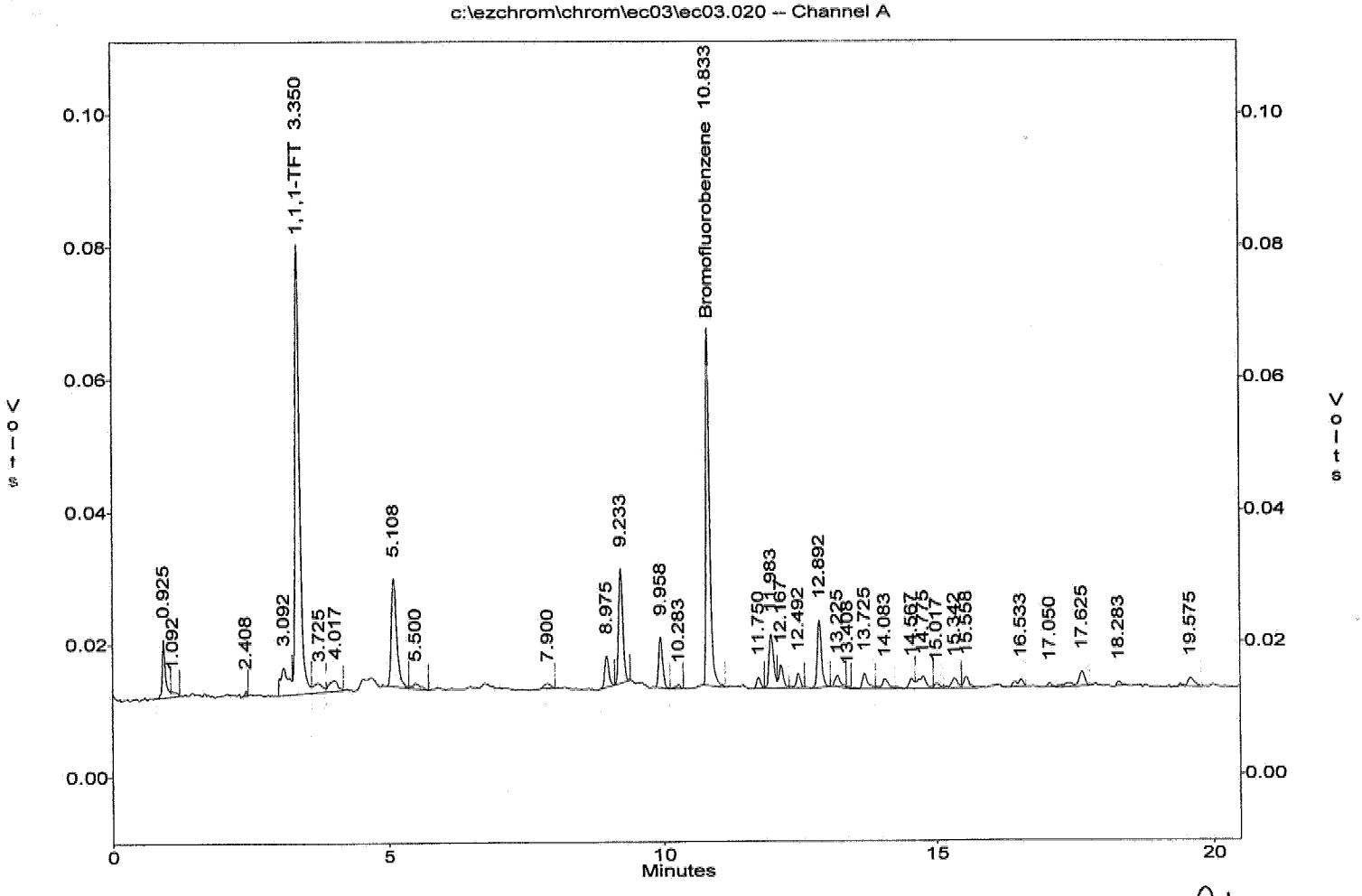
03/06/06
4020

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.020
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-02 50/20
Acquired : Mar 04, 2006 00:24:42
Printed : Mar 06, 2006 12:14:41
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
5	1,1,1-TFT	3.350	387603.0	21531.8	20.00
15	Bromofluorobenzene	10.833	262122.0	15026.0	20.00
G1	GASOLINE(TOTAL)		672683.0	15352.4	50.00
G2	GRO(C6-C10)		518064.0	12418.6	50.00
G3	GRO(2MP-124TMB)		518064.0	12455.2	50.00
G4	GRO(C5-C12)		660488.0	15149.8	50.00



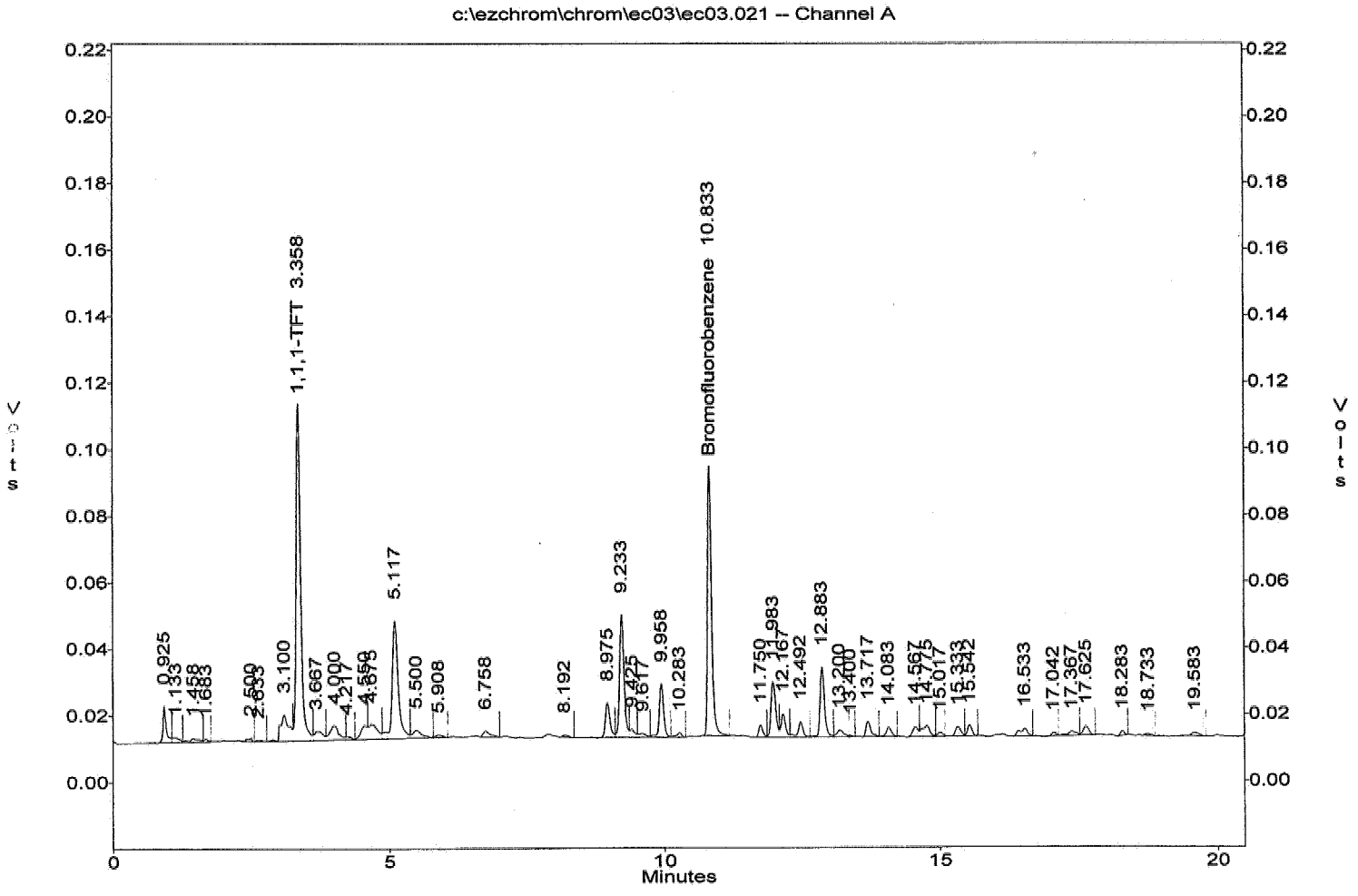
03/06/06
4021

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.021
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-03 100/30
Acquired : Mar 04, 2006 01:02:51
Printed : Mar 06, 2006 12:17:19
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
8	1,1,1-TFT	3.358	576813.0	21531.8	30.00
25	Bromofluorobenzene	10.833	393242.0	15026.0	30.00
G1	GASOLINE(TOTAL)		1566460.0	15352.4	100.00
G2	GRO(C6-C10)		1300710.0	12418.6	100.00
G3	GRO(2MP-124TMB)		1314789.0	12455.2	100.00
G4	GRO(C5-C12)		1557478.0	15149.8	100.00



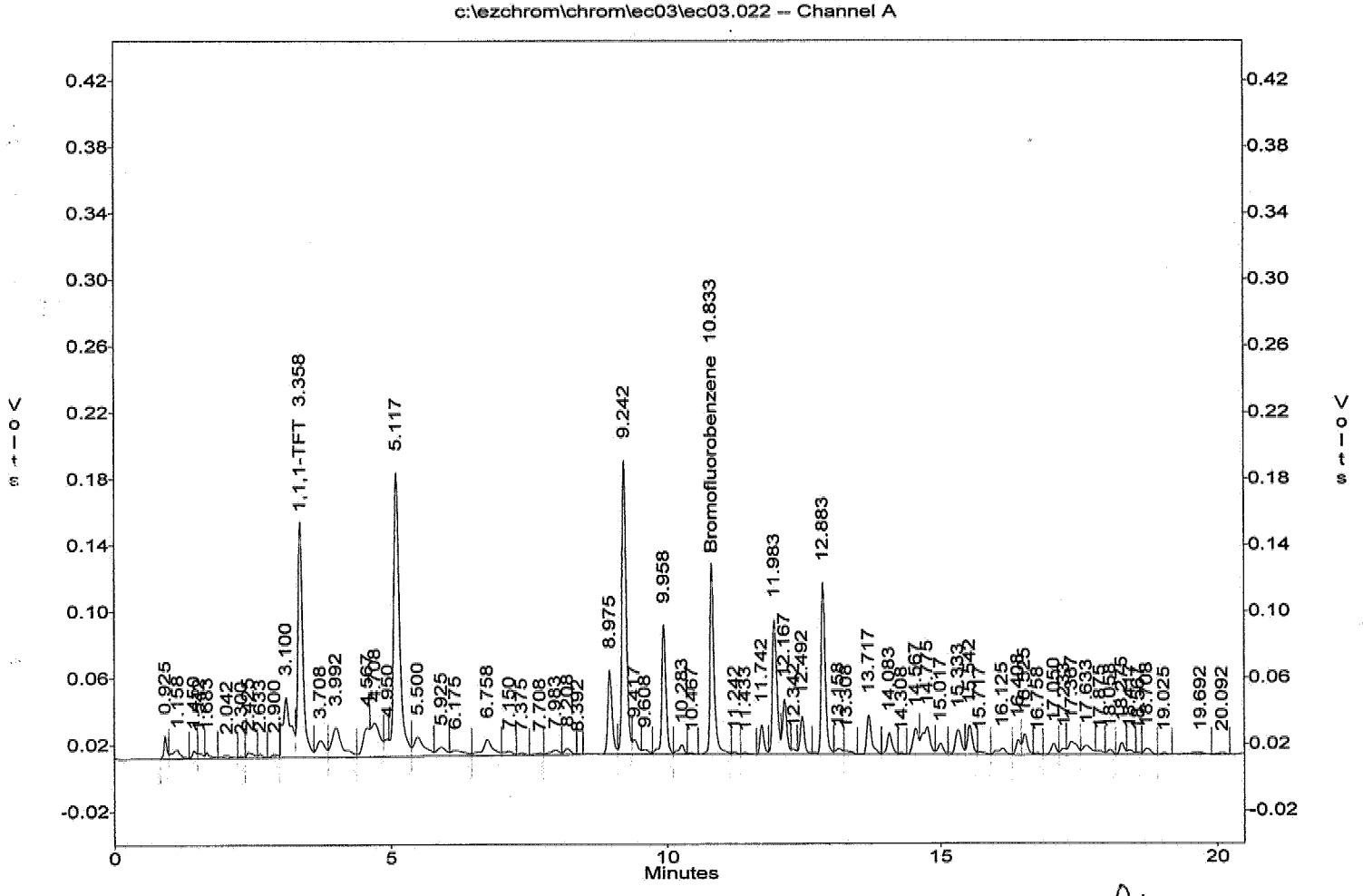
03/06/06
4022

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.022
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-04 500/40
Acquired : Mar 04, 2006 01:40:58
Printed : Mar 06, 2006 12:18:47
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
12	1,1,1-TFT	3.358	854497.0	21531.8	40.00
36	Bromofluorobenzene	10.833	595155.0	15026.0	40.00
G1	GASOLINE(TOTAL)		7888862.0	15352.4	500.00
G2	GRO(C6-C10)		6389639.0	12418.6	500.00
G3	GRO(2MP-124TMB)		6404459.0	12455.2	500.00
G4	GRO(C5-C12)		7853986.0	15149.8	500.00



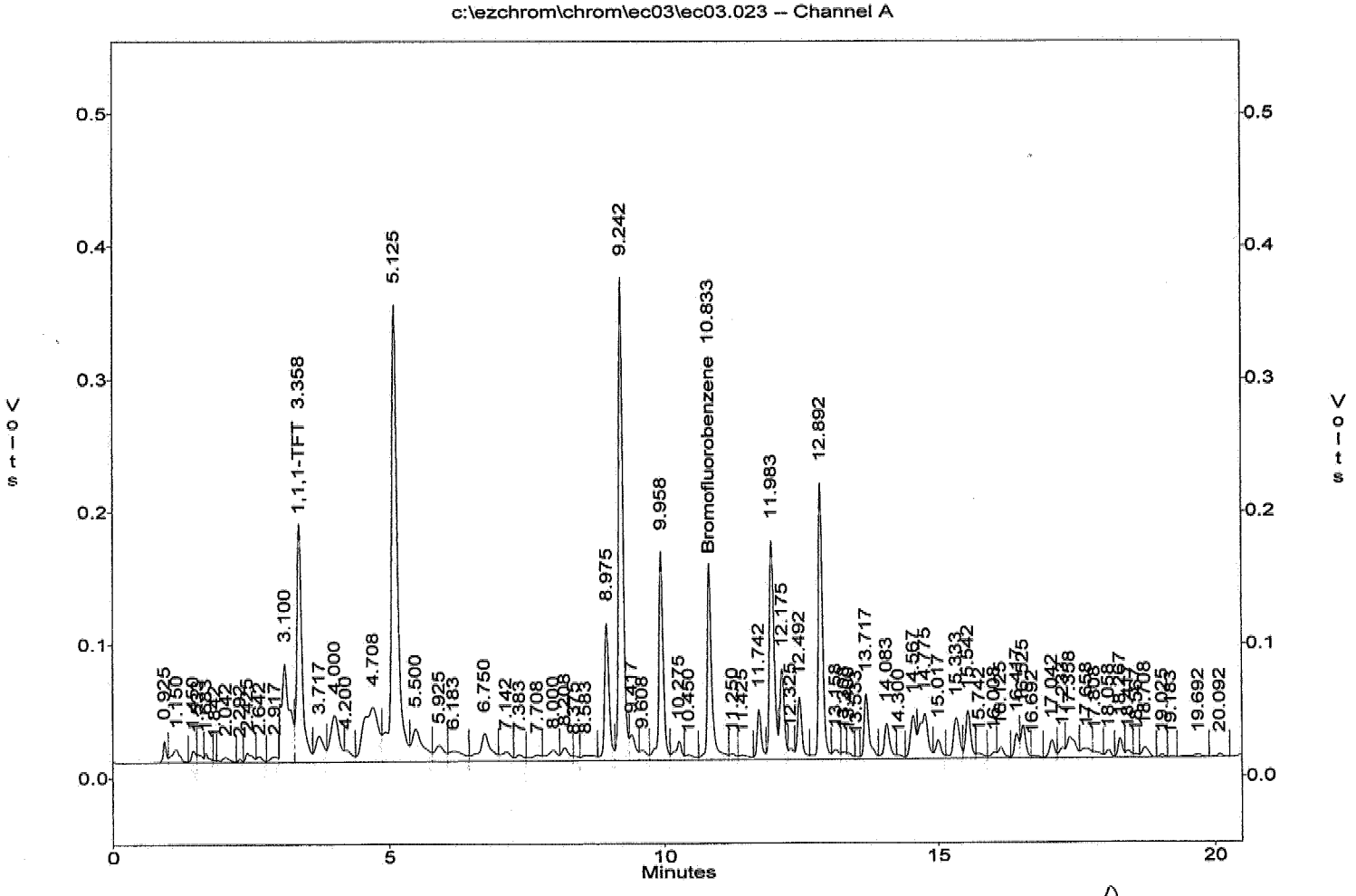
RA
03/06/06
4023

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.023
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-05 1000/50
Acquired : Mar 04, 2006 02:18:59
Printed : Mar 06, 2006 12:20:22
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.358	1163757.0	21531.8	50.00
37	Bromofluorobenzene	10.833	853904.0	15026.0	50.00
G1	GASOLINE(TOTAL)		16778924.0	15352.4	1000.00
G2	GRO(C6-C10)		13749773.0	12418.6	1000.00
G3	GRO(2MP-124TMB)		13776743.0	12455.2	1000.00
G4	GRO(C5-C12)		16712874.0	15149.8	1000.00



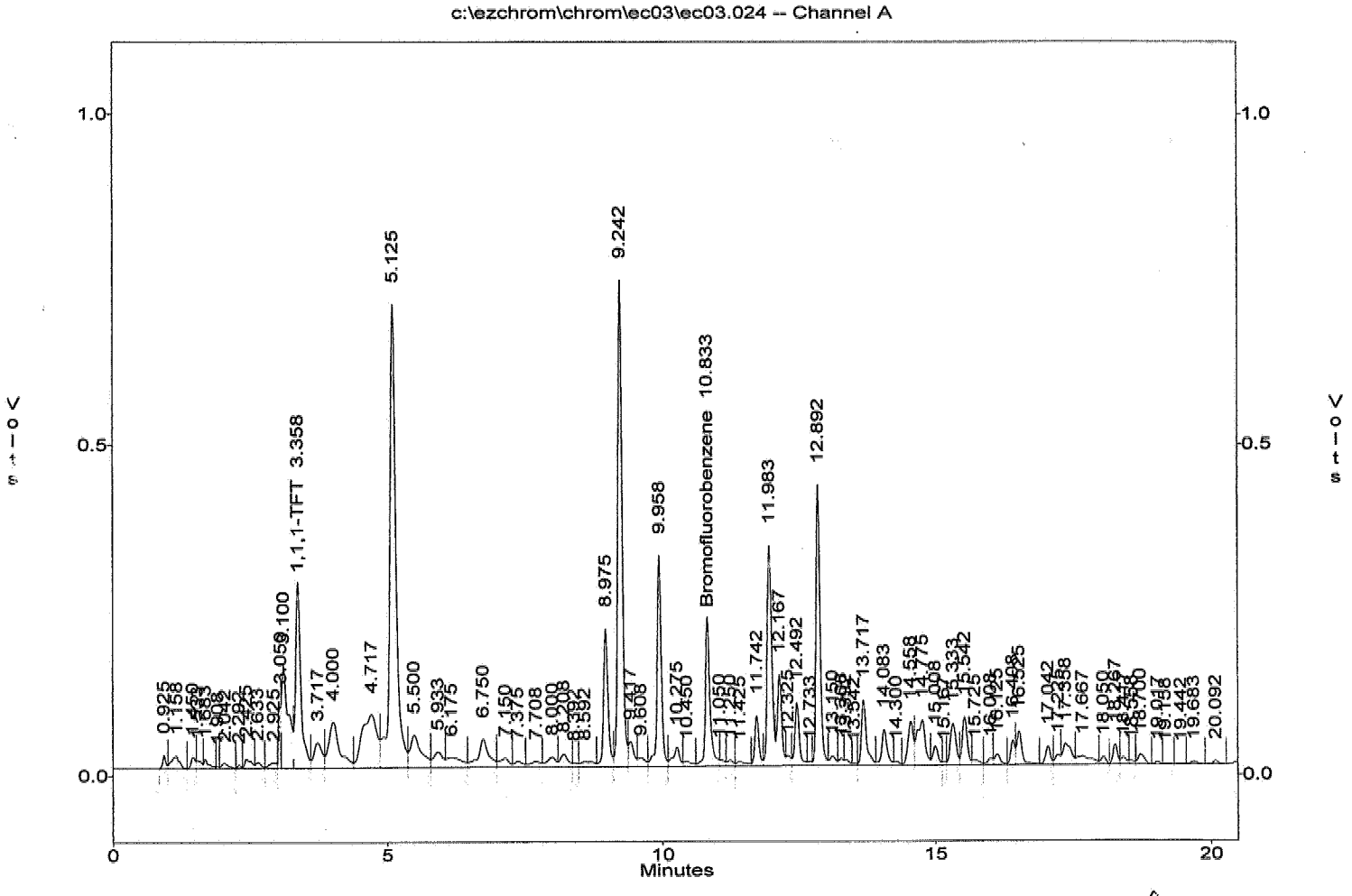
03/06/06
4024

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.024
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-06 2000/75
Acquired : Mar 04, 2006 02:57:07
Printed : Mar 06, 2006 12:21:39
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
14	1,1,1-TFT	3.358	1845865.0	21531.8	75.00
37	Bromofluorobenzene	10.833	1298426.0	15026.0	75.00
G1	GASOLINE(TOTAL)		33415984.0	15352.4	2000.00
G2	GRO(C6-C10)		27390820.0	12418.6	2000.00
G3	GRO(2MP-124TMB)		27446880.0	12455.2	2000.00
G4	GRO(C5-C12)		33290400.0	15149.8	2000.00



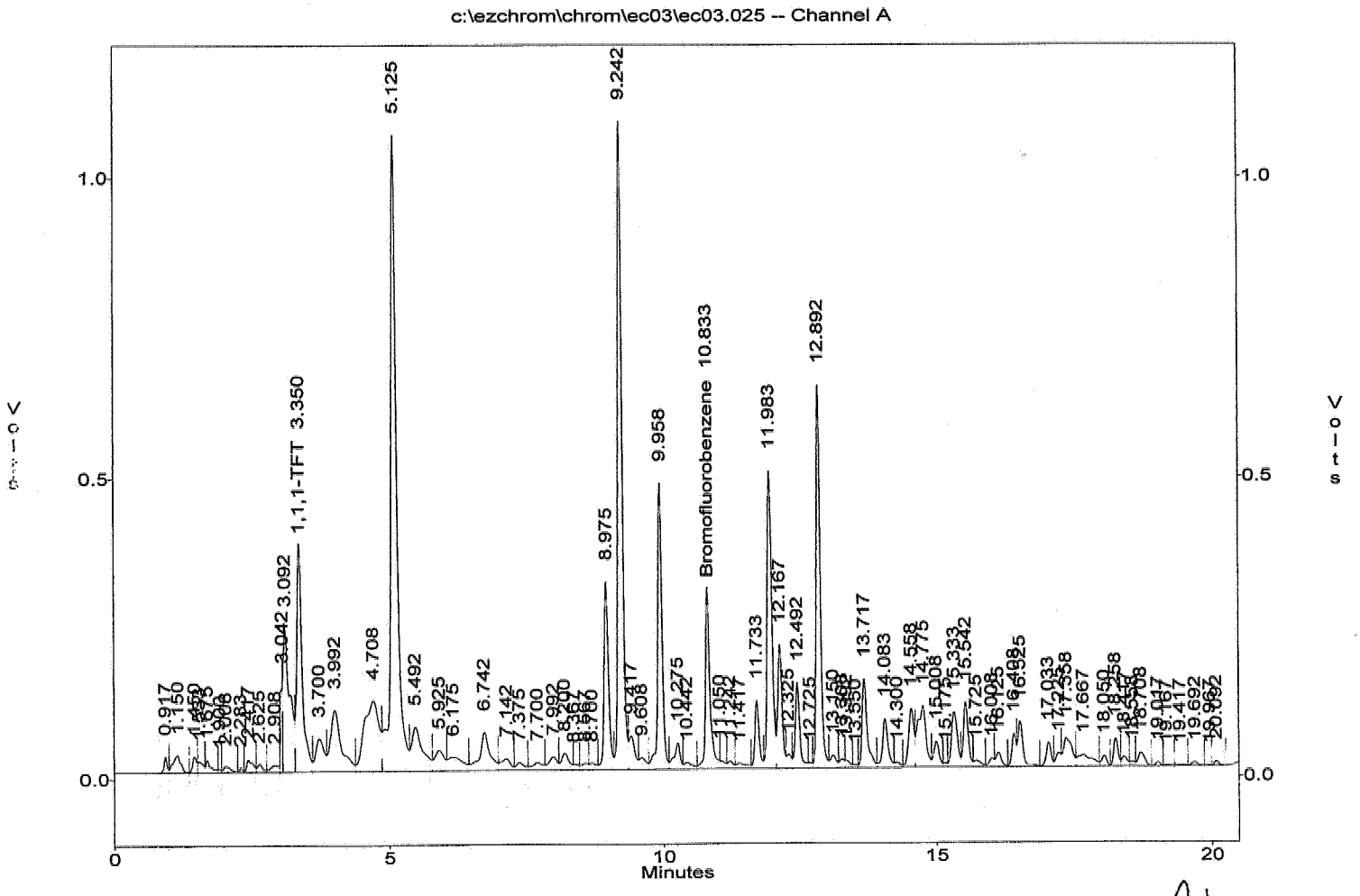
A
03/06/06
4025

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.025
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : VG39C03-07 3000/100
Acquired : Mar 04, 2006 03:35:22
Printed : Mar 06, 2006 12:22:07
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
14	1,1,1-TFT	3.350	2570044.0	21531.8	100.00
38	Bromofluorobenzene	10.833	1763520.0	15026.0	100.00
G1	GASOLINE(TOTAL)		49999240.0	15352.4	3000.00
G2	GRO(C6-C10)		41032744.0	12418.6	3000.00
G3	GRO(2MP-124TMB)		41125540.0	12455.2	3000.00
G4	GRO(C5-C12)		49821432.0	15149.8	3000.00



Rt
03/06/06
4026

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
5030B/M8015

Lab Name : EMAX
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
Conc Cont LFID & Datetime: EC03026A 03/04/2006 04:13
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	7188130	468.21	-6		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	5837213	470.04	-6		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	5812679	466.69	-7		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	7136784	471.08	-6		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.833	10.771	10.895	40.0	15026.0	621377	41.35	3		15
1,1,1-Trifluorotoluene	3.358	3.257	3.459	40.0	21531.8	834546	38.76	-3		15

VG39C03.MET

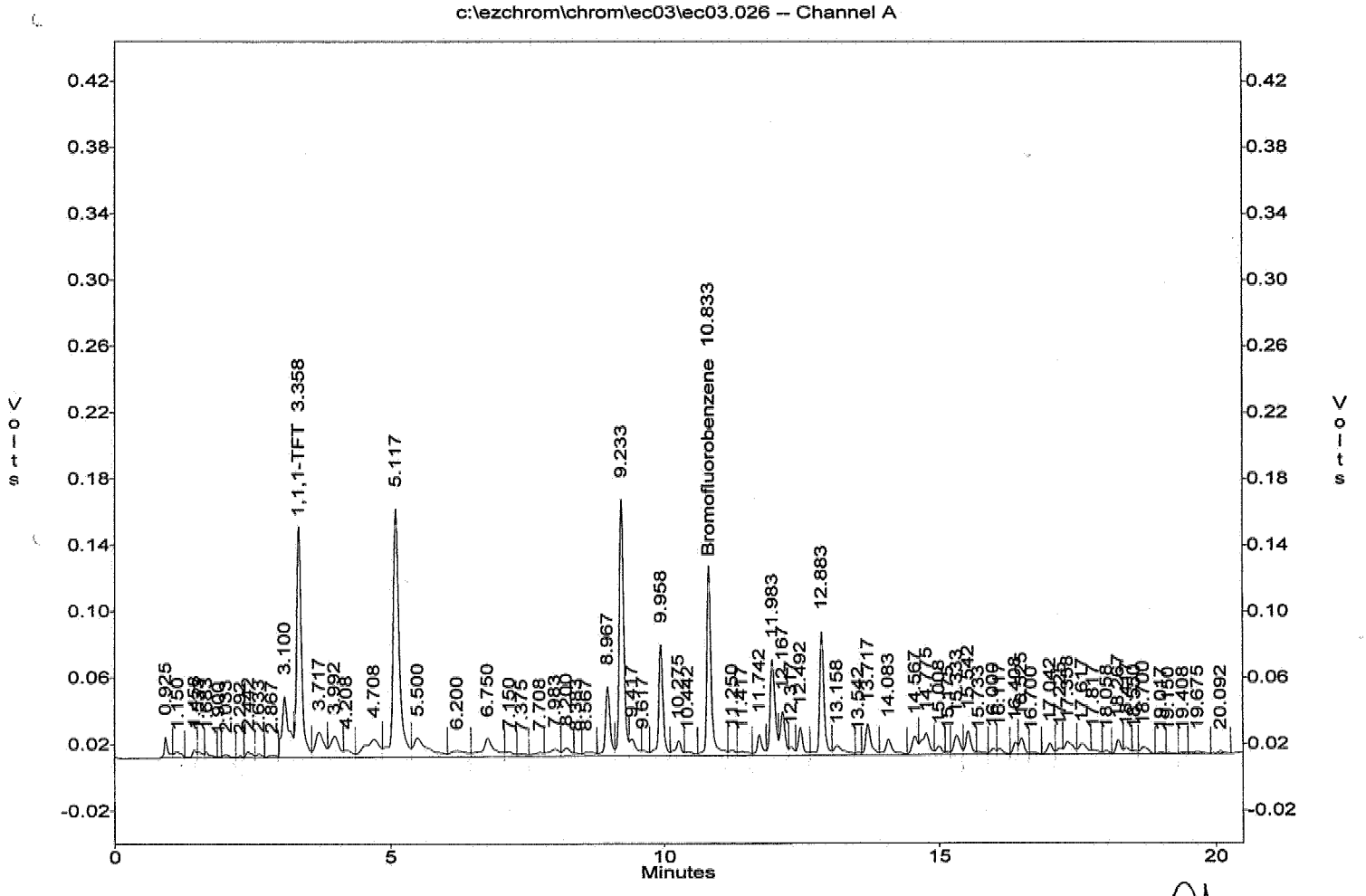
AA
03/06/04
4028

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.026
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : IVG39C0301 500/40
Acquired : Mar 04, 2006 04:13:31
Printed : Mar 06, 2006 12:24:44
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.358	834546.0	21531.8	38.76
36	Bromofluorobenzene	10.833	621377.0	15026.0	41.35
G1	GASOLINE(TOTAL)		7188130.0	15352.4	468.21
G2	GRO(C6-C10)		5837213.0	12418.6	470.04
G3	GRO(2MP-124TMB)		5812679.0	12455.2	466.69
G4	GRO(C5-C12)		7136784.0	15149.8	471.08



03/06/06
4029

DAILY CALIBRATION

CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
Conc Cont LFID & Datetime: EC23002A 03/23/2006 10:40
CONC UNIT : ppb

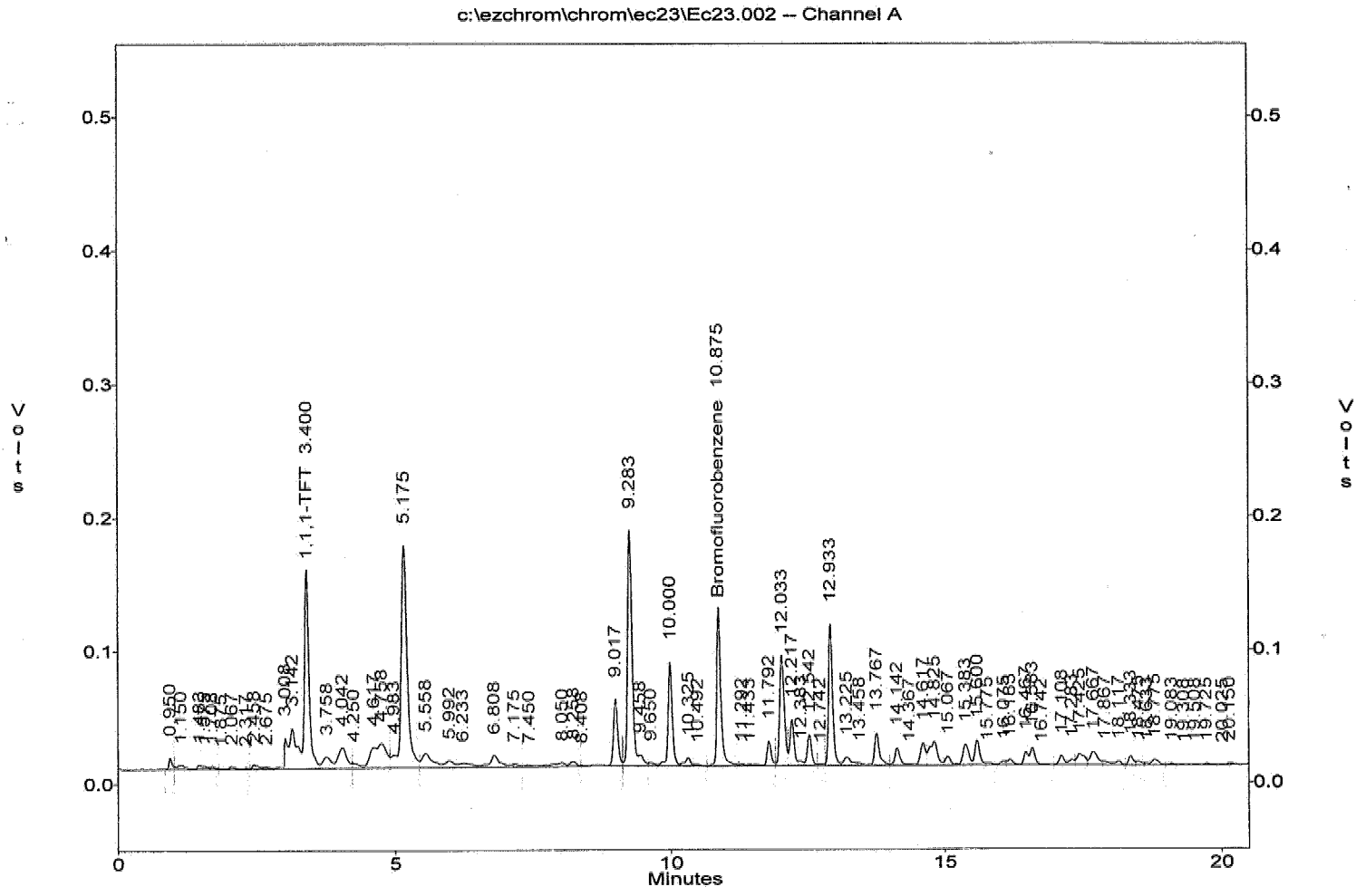
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	7811627	508.82	2		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	6189959	498.44	-0		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	6226655	499.92	-0		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	7768405	512.77	3		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.875	10.813	10.937	40.0	15026.0	619001	41.19	3		15
1,1,1-Trifluorotoluene	3.400	3.299	3.501	40.0	21531.8	853656	39.65	-1		15

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec23\Ec23.002
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : CVG39C03804 500/40
Acquired : Mar 23, 2006 10:40:17
Printed : Mar 23, 2006 11:00:49
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.400	853656.0	21531.8	39.65
37	Bromofluorobenzene	10.875	619001.0	15026.0	41.20
G1	GASOLINE(TOTAL)		7811627.0	15352.4	508.82
G2	GRO(C6-C10)		6189959.0	12418.6	498.44
G3	GRO(2MP-124TMB)		6226655.0	12455.2	499.92
G4	GRO(C5-C12)		7768405.0	15149.8	512.77



CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
Conc Cont LFID & Datetime: EC23013A 03/23/2006 17:45
CONC UNIT : ppb ✓

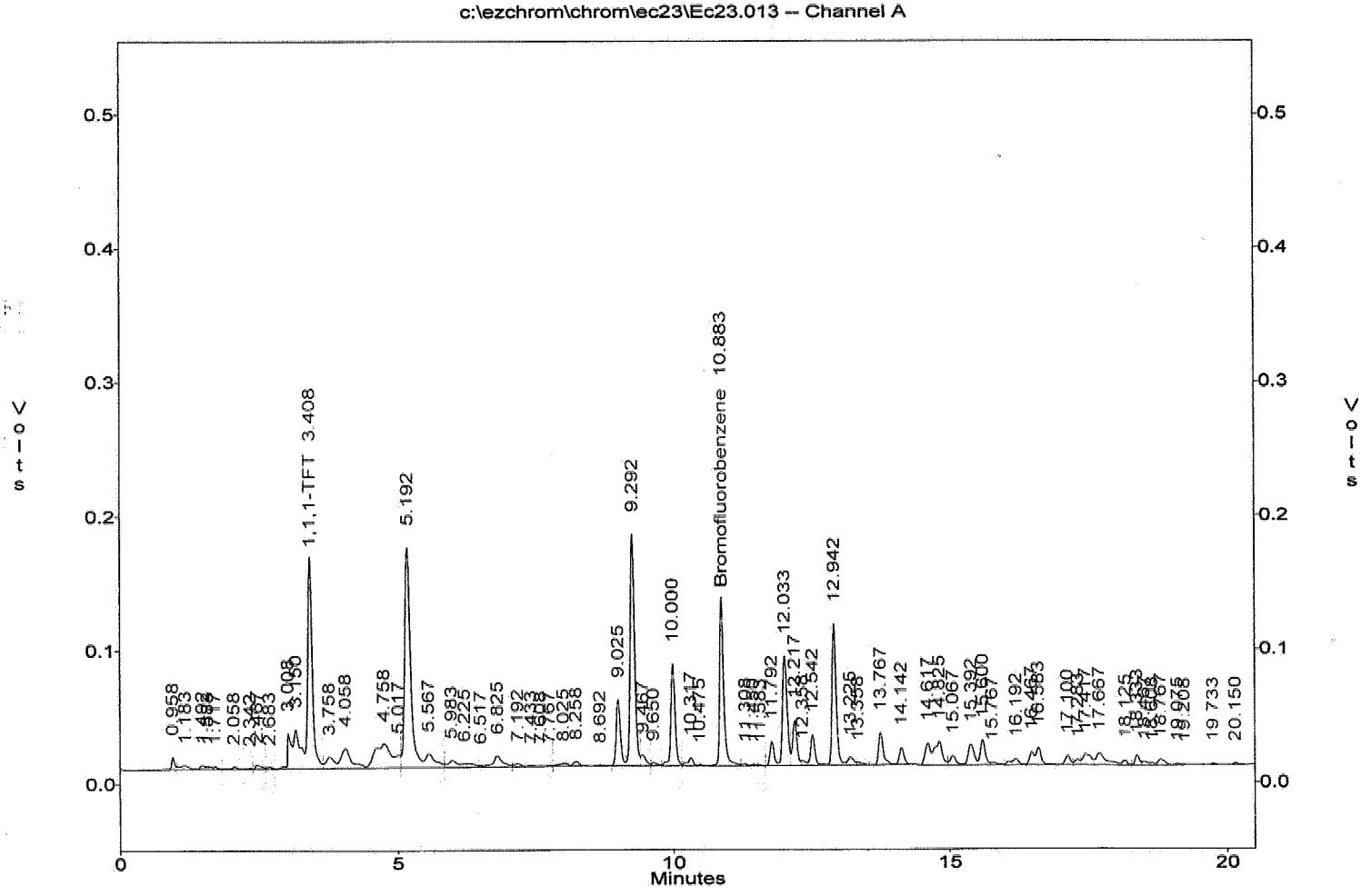
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	7554019	492.04	-2		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	6027207	485.34	-3		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	6060363	486.57	-3		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	7530953	497.10	-1		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.883	10.821	10.945	40.0	15026.0	650526	43.29	8		15
1,1,1-Trifluorotoluene	3.408	3.307	3.509	40.0	21531.8	901134	41.85	5		15

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec23\Ec23.013
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : CVG39C03805 500/40
Acquired : Mar 23, 2006 17:45:37
Printed : Mar 23, 2006 18:06:09
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
12	1,1,1-TFT	3.408	901134.0	21531.8	41.85
37	Bromofluorobenzene	10.883	650526.0	15026.0	43.29
G1	GASOLINE(TOTAL)		7554019.0	15352.4	492.04
G2	GRO(C6-C10)		6027207.0	12418.6	485.34
G3	GRO(2MP-124TMB)		6060363.0	12455.2	486.57
G4	GRO(C5-C12)		7530953.0	15149.8	497.10



CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
Instrument ID : GCT39
GC Columm : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
Conc Cont LFID & Datetime: EC23024A 03/24/2006 00:47
CONC UNIT : ppb

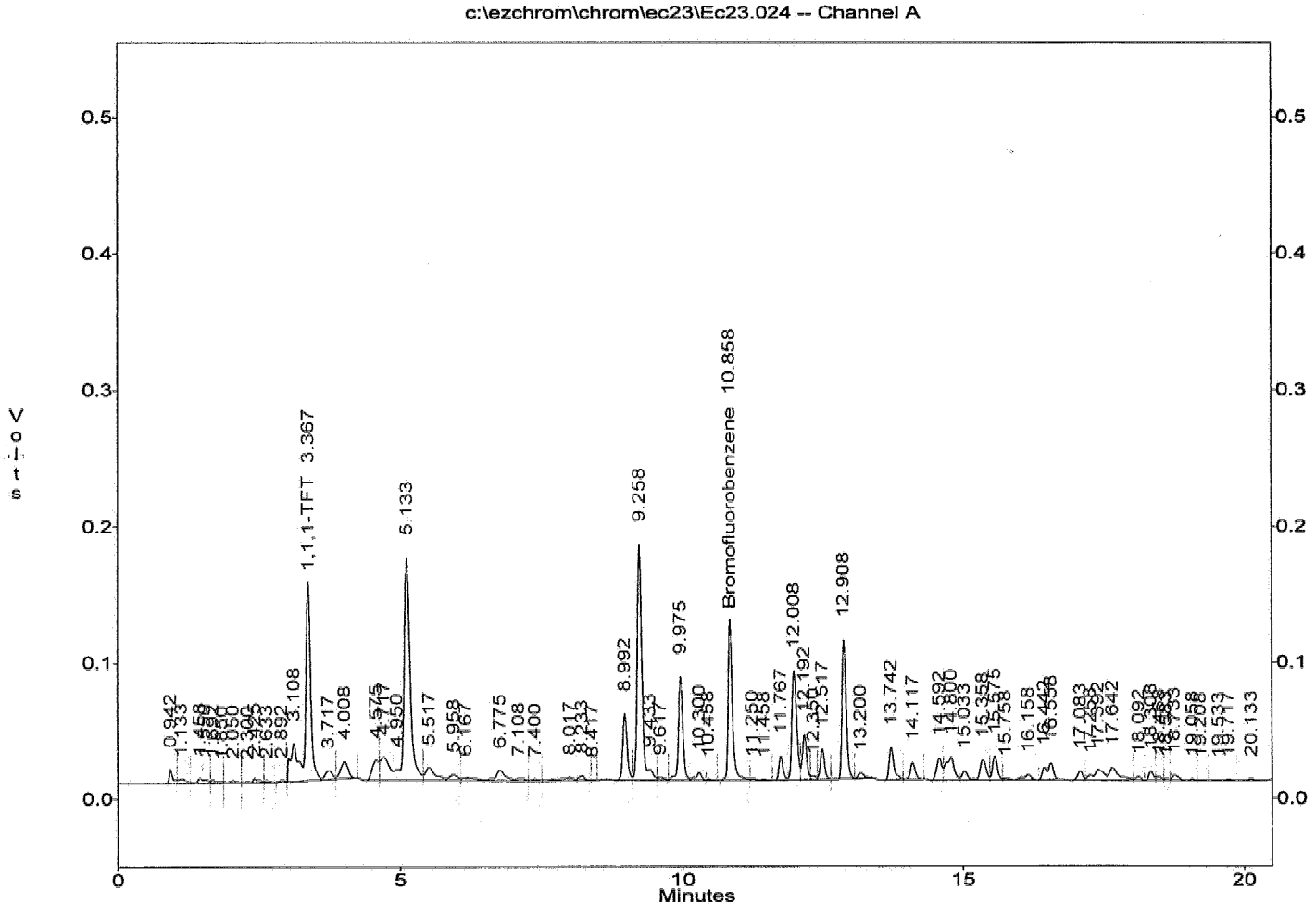
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	7043659	458.80	-8		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	5639916	454.15	-9		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	5677495	455.83	-9		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	7002653	462.23	-8		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.858	10.796	10.920	40.0	15026.0	616686	41.04	3		15
1,1,1-Trifluorotoluene	3.367	3.266	3.468	40.0	21531.8	819331	38.05	-5		15

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec23\Ec23.024
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : CVG39C03806 500/40
Acquired : Mar 24, 2006 00:47:25
Printed : Mar 24, 2006 01:07:57
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.367	819331.0	21531.8	38.05
36	Bromofluorobenzene	10.858	616686.0	15026.0	41.04
G1	GASOLINE(TOTAL)		7043659.0	15352.4	458.80
G2	GRO(C6-C10)		5639916.0	12418.6	454.15
G3	GRO(2MP-124TMB)		5677495.0	12455.2	455.83
G4	GRO(C5-C12)		7002653.0	15149.8	462.23



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR NONHALOGENATED VOLATILES

SOP: ☑ EMAX-5030B Rev. No. 1 ☑ EMAX-BTEXM Rev. No. 1 ☑ EMAX-8015G Rev. No. 1 ☐ SC 3/06/04 13:46

Starting Date: 3/03/06 Time: 23:07 Ending Date: ~~3/03/06~~ 3/04/06 Time: 22:29 SC 3/06/04 Book # A39-024

ANALYTICAL BATCH # N/A

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	Purge Volume	pH	Matrix	Notes
*01	EC03-018	LB39C735	5.0ml	5.0ml	N/A	W	
*02	-019	VG39C03-01	.04ul/1ul				20/10
*03	-020	-02	.1ul/2ul				50/20
*04	-021	-03	.2ul/3ul				100/30
*05	-022	-04	1ul/4ul				500/40 GAS
*06	-023	-05	2ul/5ul				1000/50 ICAL
*07	-024	-06	4ul/7.5ul				2000/75
*08	-025	-07	6ul/10ul				3000/100
*09	-026	IVG39C0301	.5ul/4ul				500/40 GAS ICV
*10	-027	IVG39C0302	1ul/5ul				1000/50 GAS ICV
*11	-028	LB39C736 SC 3/06/06 ~~TEST~~	5.0ml				
*12	-029	VA39C03-01	.05ul				.5 PPB
*13	-030	-02	.1ul				1 PPB
*14	-031	-03	.5ul				5PPB
*15	-032	-04	2ul				20 PPB BTEXM
*16	-033	-05	4ul				40 PPB ICAL
*17	-034	-06	7.5ul				75 PPB
*18	-035	-07	10ul				100 PPB
*19	-036	IVA39C0303	2ul				BTEX ICV 20/20
*20	-037	IVA39C0304	4ul				BTEX ICV 40/40
*21	-038	GRO	.5ul				
*22	-039	2MP/1,2,4-TMB	1ul/.5ul				
*23	-040	PENTANE/NAPHTHALENE	3ul/.5ul				
*24	-041	DRO	.5ul	↓	↓	↓	
*25							
*26							
*27							
*28						SC 3/03/06	
*29							
*30							

Instrument No:		39
Initial Calibration Reference		
	FIDChannel A	PIDChannel B
Method File	VG39C03	VG39C03
Date	3/03/06	3/03/06
ICAL ID	VG39C03-GAS	
	VA39C03-BTEXM	
ICV ID	IVG39C0301/02 GAS	
	IVA39C0303/-04 BTEXM	
Std.	ID	Conc.(mg/L)
DCC GAS ICAL	SV2A-04-58	2500
DCC BTEX ICAL	SV2C-04-30-3	50
BFB/TFT	SV2C-04-31-3	50
LCS/LCSD GAS ICV	SV2A-04-67	5000
MS/MSD	—	—
BTEX LCS/ICV	SV2C-04-31-1	50
Solvent	ID	
Methanol		

Electronic Data Archival

Location	Date
EZC-3-BTEX	

Comments:

Analyzed By: SC

Disposed on: 3/06/06 By: SC

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

8321

ANALYSIS RUN LOG FOR NONHALOGENATED VOLATILES

SOP: ☐ EMAX-5030B Rev. No. 1 ☐ EMAX-BTEXM Rev. No. 1 ☑ EMAX-8015G Rev. No. 1 ☐

Starting Date: 3/23/06 Time: 10:01 Ending Date: 3/24/06 Time: 1:25 Book # A39-024

ANALYTICAL BATCH # VA39C12

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	Purge Volume	pH	Matrix	Notes
*01	EC23 .001	IB39C804	5.0mL	5.0mL	N/A	W	
*02	.002	CVG39C03804	1ml/1ml				500/40 GAS
*03	.003	VA39C12B	5.0mL				
*04	.004	↓L	.5/1ml				
*05	.005	TEST	5.0mL				
*06	.006	VA39C12C	.5/1ml		↓		
*07	.007	06C193-01	5.0mL		<2		
*08	.008	02					
*09	.009	03					
*10	.010	04					
*11	.011	↓05					
*12	.012	06C199-01	↓		↓		
*13	.013	CVG39C03805	1ml/1ml		N/A		500/40 GAS
*14	.014	06C204-01	5.0mL		<2		
*15	.015	02					
*16	.016	↓03					
*17	.017	06C210-01	↓				
*18	.018	01M	.5/1ml				
*19	.019	01S	.5/1ml				
*20	.020	02	5.0mL				
*21	.021	03					
*22	.022	04					
*23	.023	↓05	↓		↓		
*24	.024	CVG39C03806	1ml/1ml		N/A		500/40 GAS
*25	.025	CVG39C03807	↓	↓	↓	↓	500/40 GAS
*26	3/24/06 .026						
*27							
*28				- MPA 3/24/06			
*29							
*30							

Instrument No:		39
Initial Calibration Reference		
	FIDChannel A	PIDChannel B
Method File	VG39C03	—
Date	03/03/06	—
ICAL ID	—	
	—	
ICV ID	—	
	—	
Std.	ID	Conc.(mg/L)
DCC GAS	SV2A-04-58	2500
DCC BTEX	—	—
BFB/TFT	2V2C-04-32-2	200
LCS/LCSD	SV2A-04-67	5000
MS/MSD	SV2A-04-67	5000
Solvent	ID	
Methanol		

Electronic Data Archival

Location	Date
EZC-3-BTEX	

Comments:

Analyzed By: MPA / SC

Disposed on: 3/24/06 By: MPA

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ssoh

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 06C204

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C204

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Two (2) water samples were received on 03/23/06 for Total Petroleum Hydrocarbons by Extraction analysis by Method 3520C/8015B in accordance with SW846, 3rd edition.

1. Holding Time

Analytical holding time was met. Extraction was performed on 03/23/06 and completed on 03/24/06.

2. Calibration

Initial calibration was seven points for Diesel and Motor Oil. %RSDs were within 20%. Continuing calibrations were carried out at every 12-hour interval and all recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

All recoveries were within QC limits.

5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met. Sample results were quantitated from C10 to C28 using Diesel (C10-C28) calibration factor and from C28 to C38 using Motor Oil calibration factor.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C204
Instrument ID : GCT050

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSC023WB	1	NA	03/28/0602:42	03/23/0612:00	TC27020A	TC27014A	DSC023W	Method Blank
LCS1W	DSC023WL	1	NA	03/28/0601:19	03/23/0612:00	TC27018A	TC27014A	DSC023W	Lab Control Sample (LCS)
LCD1W	DSC023WC	1	NA	03/28/0602:00	03/23/0612:00	TC27019A	TC27014A	DSC023W	LCS Duplicate
M-120	C204-01	.94	NA	03/28/0608:55	03/23/0612:00	TC27029A	TC27027A	DSC023W	Field Sample
M-118	C204-03	.94	NA	03/28/0609:37	03/23/0612:00	TC27030A	TC27027A	DSC023W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/23/06 12:00
Sample ID:	M-120	Date Analyzed:	03/28/06 08:55
Lab Samp ID:	C204-01	Dilution Factor:	.94
Lab File ID:	TC27029A	Matrix	: WATER
Ext Btch ID:	DSC023W	% Moisture	: NA
Calib. Ref.:	TC27027A	Instrument ID	: GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DRO	ND	.47	.094
ORO	ND	.94	.094

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	65	45-154
HEXACOSANE	111	63-165

RL : Reporting Limit

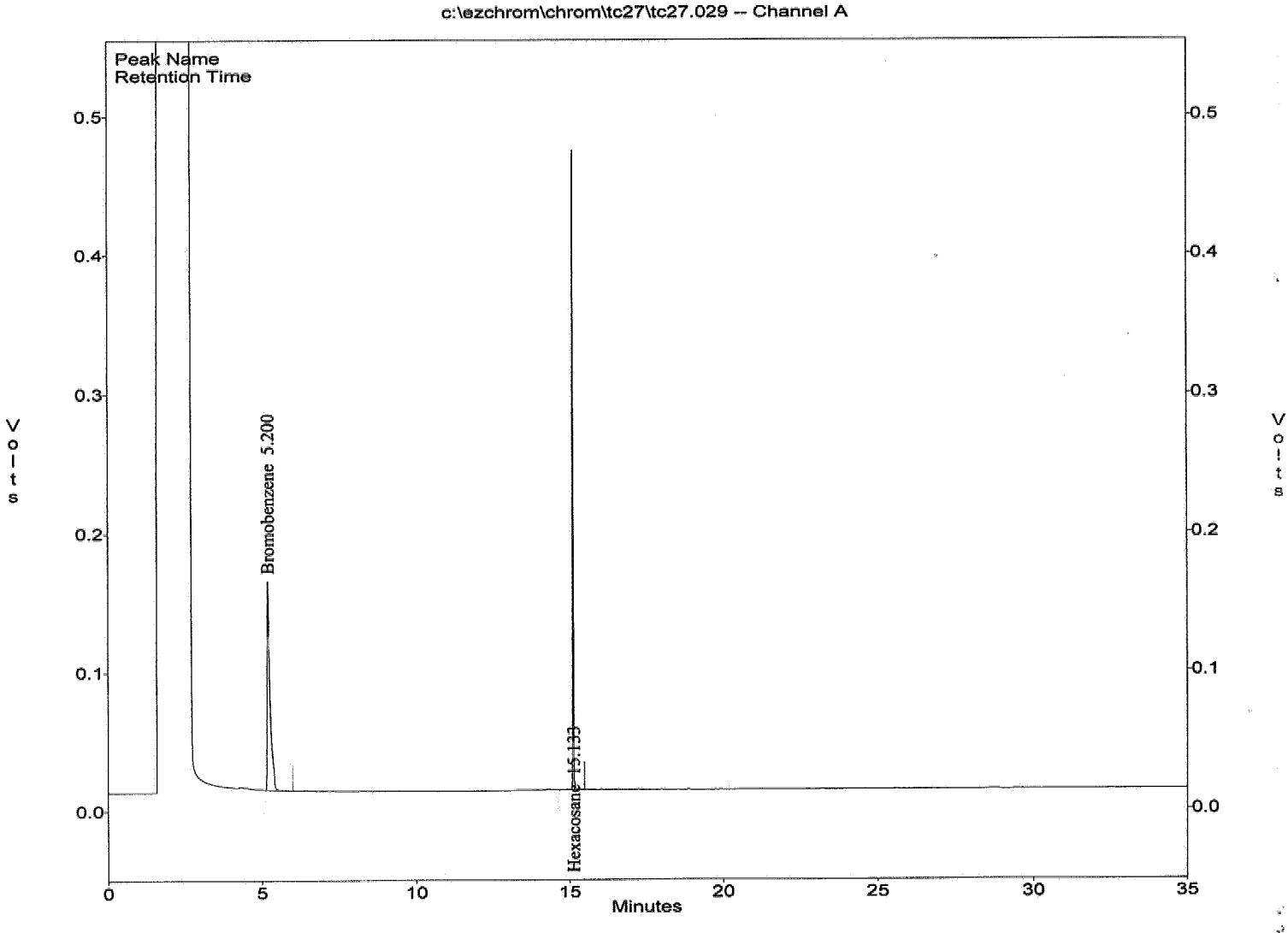
Parameter	H-C Range
DRO	C10-C28
ORO	C28-C38

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc27\tc27.029
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : 06C204-01
Acquired : Mar 28, 2006 08:55:58
Printed : Mar 28, 2006 10:32:02
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.200	929780	14214.3	65.4
2	Hexacosane	15.133	801209	28984.5	27.6
G1	Diesel(TOTAL)		0	26500.7	0.0
G2	Diesel(C10-C24)		0	26460.6	0.0
G3	Diesel(C10-C28)		0	26478.8	0.0



METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/23/06 12:00
Sample ID:	M-118	Date Analyzed:	03/28/06 09:37
Lab Samp ID:	C204-03	Dilution Factor:	.94
Lab File ID:	TC27030A	Matrix :	WATER
Ext Btch ID:	DSC023W	% Moisture :	NA
Calib. Ref.:	TC27027A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DRO	ND	.47	.094
ORO	ND	.94	.094

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	69	45-154
HEXACOSANE	94	63-165

RL : Reporting Limit

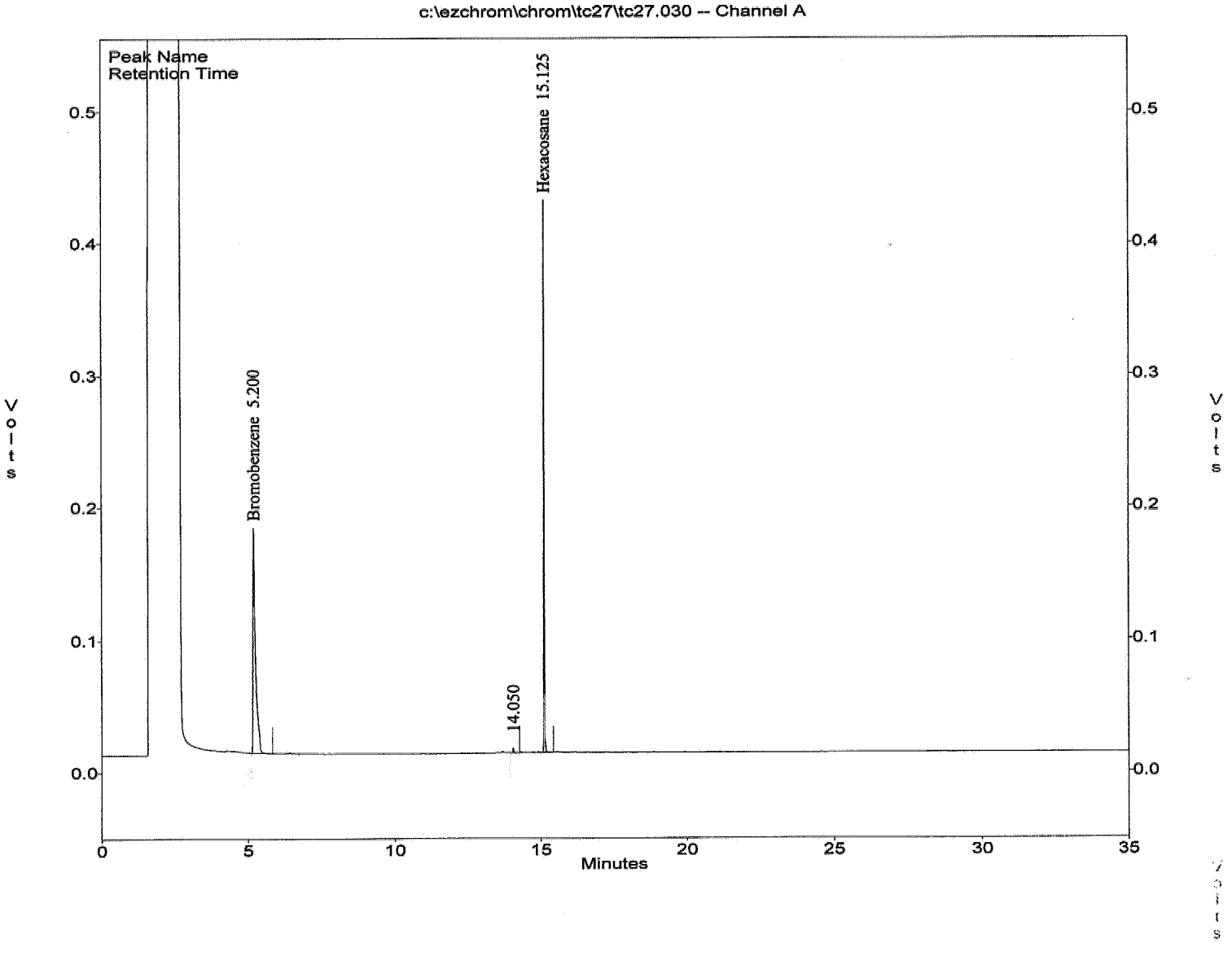
Parameter	H-C Range
DRO	C10-C28
ORO	C28-C38

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc27\tc27.030
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : 06C204-03
Acquired : Mar 28, 2006 09:37:45
Printed : Mar 28, 2006 10:32:22
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.200	983679	14214.3	69.2
3	Hexacosane	15.125	679287	28984.5	23.4
G1	Diesel(TOTAL)		9527	26500.7	0.4
G2	Diesel(C10-C24)		9527	26460.6	0.4
G3	Diesel(C10-C28)		9527	26478.8	0.4



QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/23/06 12:00
Sample ID:	MBLK1W	Date Analyzed:	03/28/06 02:42
Lab Samp ID:	DSC023WB	Dilution Factor:	1
Lab File ID:	TC27020A	Matrix :	WATER
Ext Btch ID:	DSC023W	% Moisture :	NA
Calib. Ref.:	TC27014A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DRO	ND	.5	.1
ORO	ND	1	.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	53	50-140
HEXACOSANE	113	70-150

RL : Reporting Limit

Parameter	H-C Range
DRO	C10-C28
ORO	C28-C38

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: METHOD 3520C/8015B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSC023WB	DSC023WL	DSC023WC		
LAB FILE ID:	TC27020A	TC27018A	TC27019A		
DATE EXTRACTED:	03/23/0612:00	03/23/0612:00	03/23/0612:00	DATE COLLECTED:	NA
DATE ANALYZED:	03/28/0602:42	03/28/0601:19	03/28/0602:00	DATE RECEIVED:	03/23/06
PREP. BATCH:	DSC023W	DSC023W	DSC023W		
CALIB. REF:	TC27014A	TC27014A	TC27014A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
DRO	ND	5	4.45	89	5	4.44	89	0	60-140	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	.65	65	1	.668	67	50-140
Hexacosane	.25	.277	111	.25	.28	112	70-150

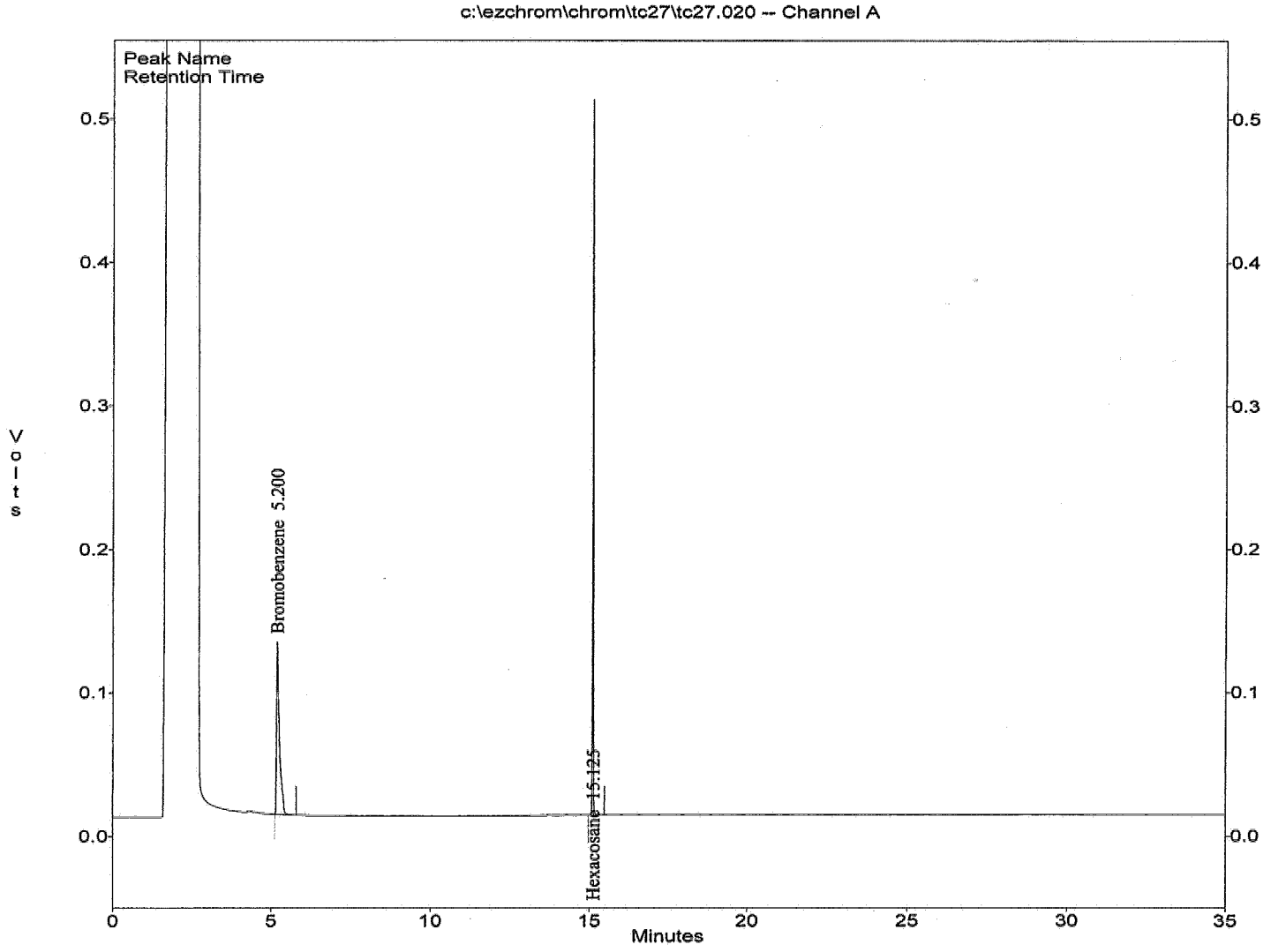
QC DATA

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc27\tc27.020
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DSC023WB
Acquired : Mar 28, 2006 02:42:21
Printed : Mar 28, 2006 10:20:46
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.200	754673	14214.3	53.1
2	Hexacosane	15.125	817450	28984.5	28.2
G1	Diesel(TOTAL)		0	26500.7	0.0
G2	Diesel(C10-C24)		0	26460.6	0.0
G3	Diesel(C10-C28)		0	26478.8	0.0

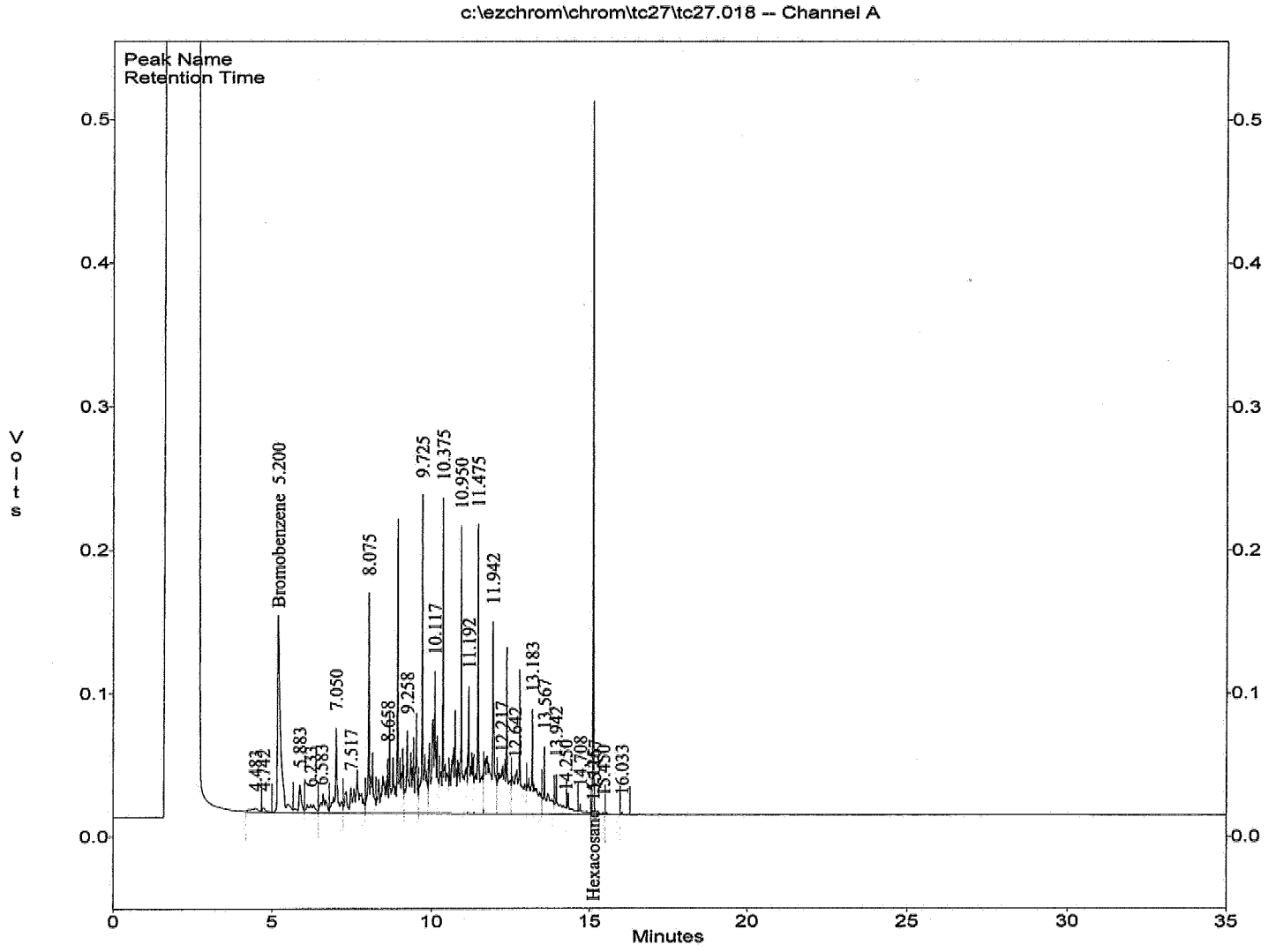


METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc27\tc27.018
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DSC023WL
Acquired : Mar 28, 2006 01:19:11
Printed : Mar 28, 2006 10:20:17
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
3	Bromobenzene	5.200	924530	14214.3	65.0
26	Hexacosane	15.125	801979	28984.5	27.7
G1	Diesel(TOTAL)		11979261	26500.7	452.0
G2	Diesel(C10-C24)		11736336	26460.6	443.5
G3	Diesel(C10-C28)		11788779	26478.8	445.2

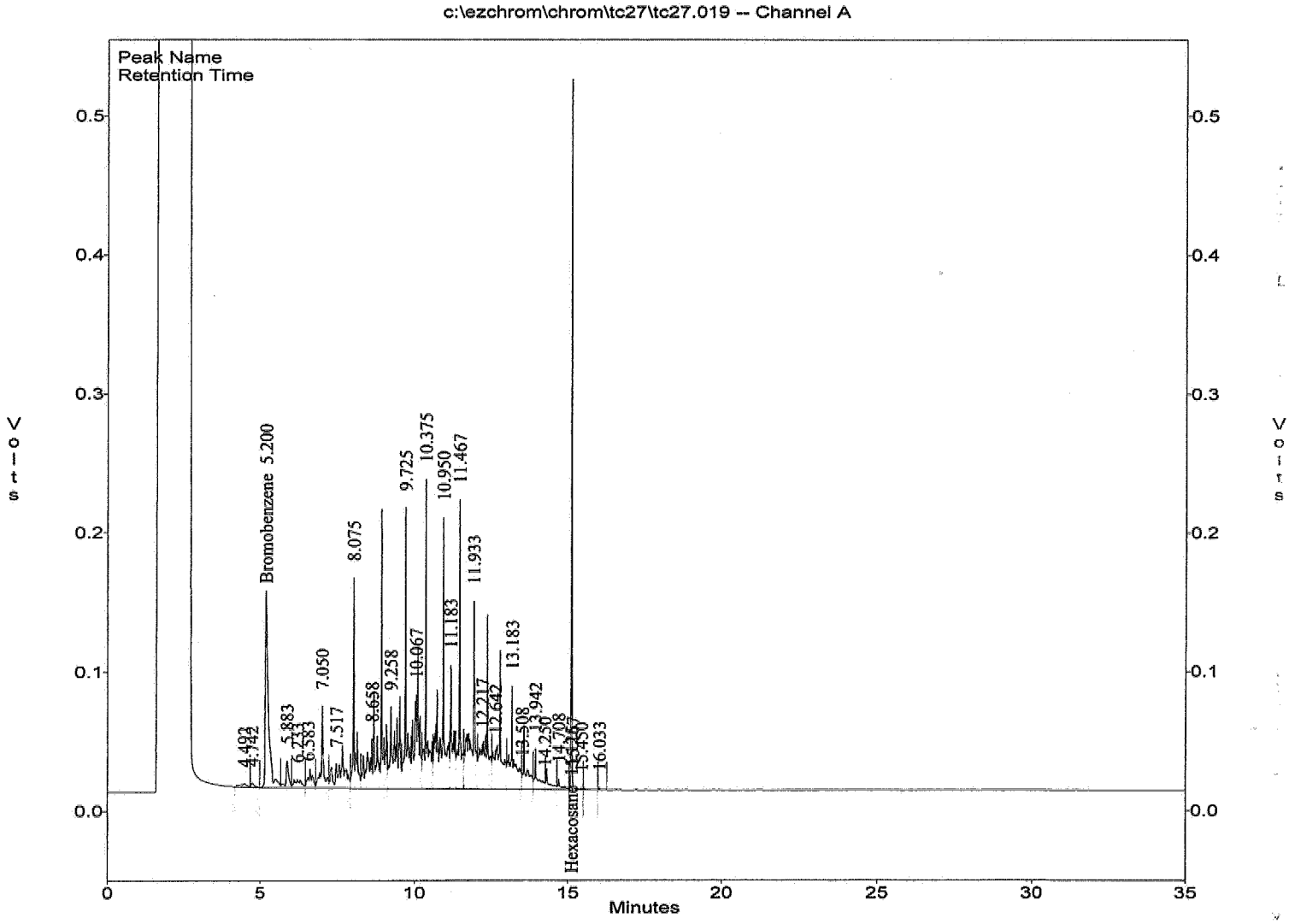


METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc27\tc27.019
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DSC023WC
Acquired : Mar 28, 2006 02:00:45
Printed : Mar 28, 2006 10:20:31
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
3	Bromobenzene	5.200	950019	14214.3	66.8
26	Hexacosane	15.125	812527	28984.5	28.0
G1	Diesel(TOTAL)		11953894	26500.7	451.1
G2	Diesel(C10-C24)		11710414	26460.6	442.6
G3	Diesel(C10-C28)		11763865	26478.8	444.3



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
LFID & Datetime: TA31009A 01/31/06 19:57
LFID & Datetime: TA31010A 01/31/06 20:39
LFID & Datetime: TA31004A 01/31/06 16:26
LFID & Datetime: TA31005A 01/31/06 17:08
LFID & Datetime: TA31006A 01/31/06 17:51
LFID & Datetime: TA31007A 01/31/06 18:33
LFID & Datetime: TA31008A 01/31/06 19:15
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.00X	10.00X	20.00X	100.00X	300.00X	600.00X	MEAN	%RSD
DIESEL(TOTAL)	5.00	29695	33603	21928	26105	23350	24931	25894	26500.7	15.0
DIESEL(C10-C24)	5.00	29695	33603	21896	26080	23330	24845	25775	26460.6	15.1
DIESEL(C10-C28)	5.00	29695	33603	21928	26105	23350	24872	25800	26478.8	15.0
SURROGATE	X	0.50X	1.00X	2.00X	3.00X	5.00X	7.00X	11.00X	MEAN	%RSD
BROMOBENZENE	20.00	-1	13517	14356	15142	13341	14495	14436	14214.3	4.7
HEXACOSANE	5.00	-1	29580	29371	31178	27128	28544	28106	28984.5	4.8

DS50A31.MET

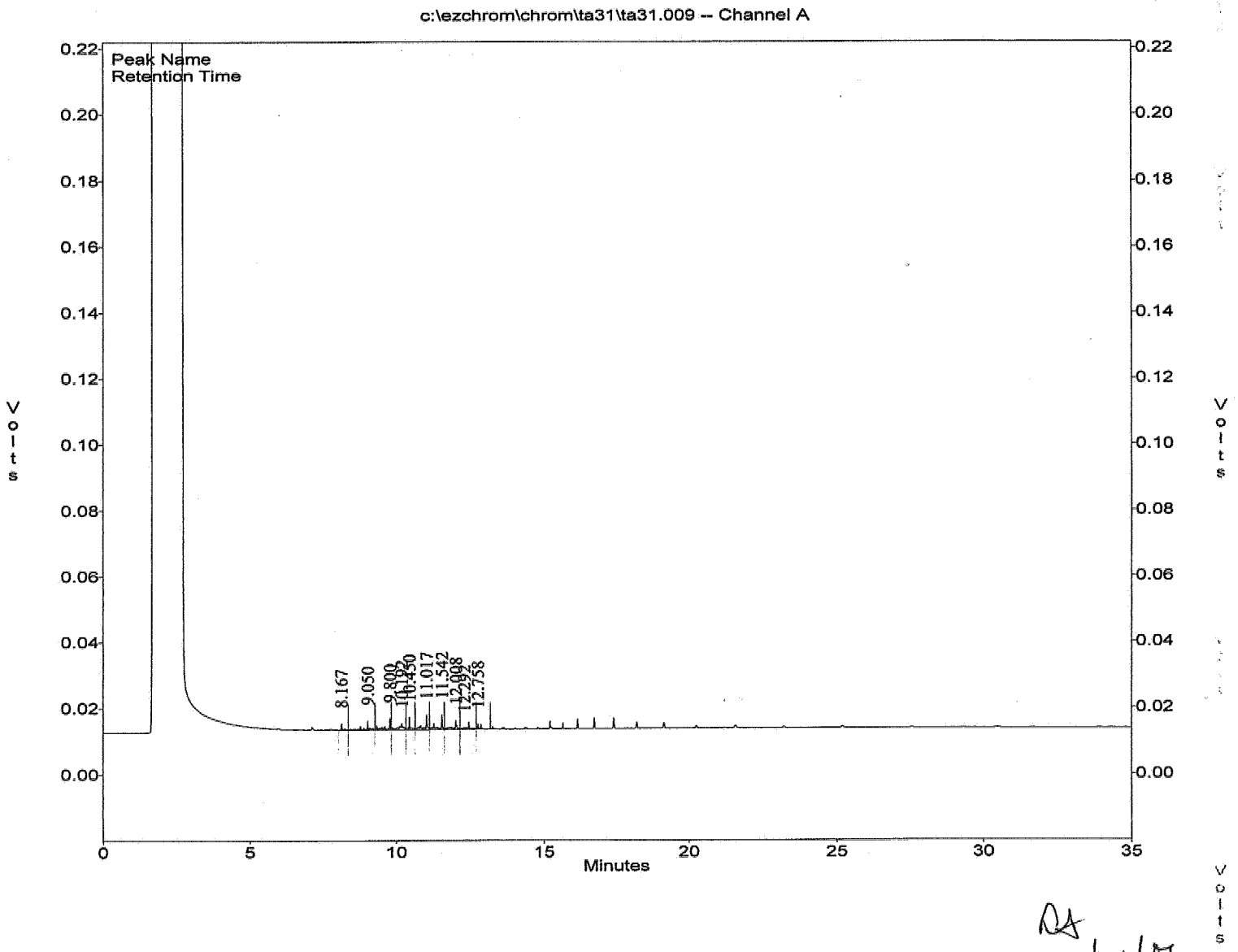
2/1/06

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.009
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3101 5PPM
Acquired : Jan 31, 2006 19:57:35
Printed : Feb 01, 2006 09:34:38
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Bromobenzene	5.283	0	0.0	0.0
--	Hexacosane	15.233	0	0.0	0.0
G1	Diesel(TOTAL)		148474	26500.7	5.0
G2	Diesel(C10-C24)		148474	26460.6	5.0
G3	Diesel(C10-C28)		148474	26478.8	5.0



02/01/06

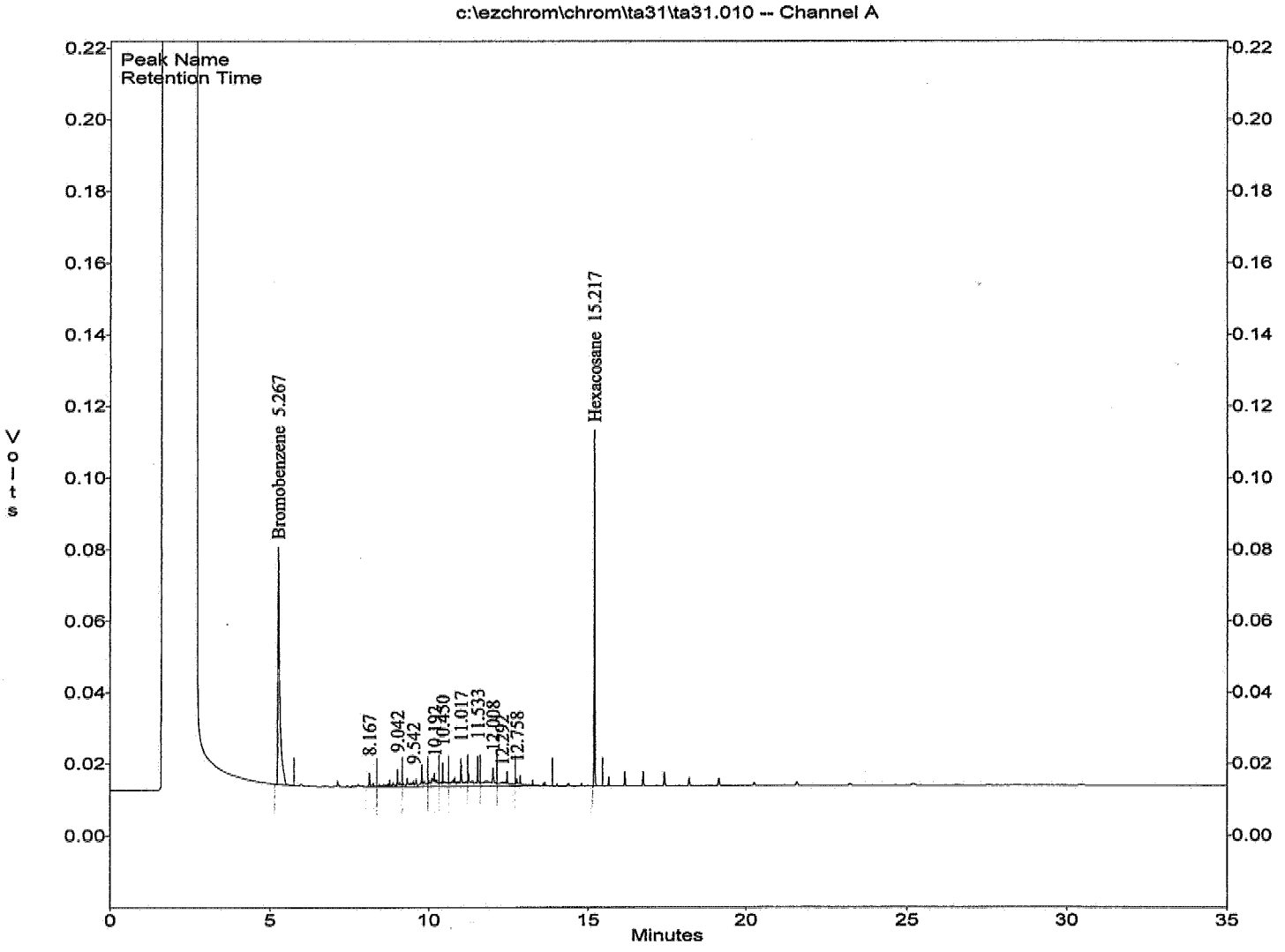
5017

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.010
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3102 10/20/5
Acquired : Jan 31, 2006 20:39:42
Printed : Feb 01, 2006 09:34:43
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.267	270334	14214.3	20.0
12	Hexacosane	15.217	147901	28984.5	5.0
G1	Diesel(TOTAL)		336030	26500.7	10.0
G2	Diesel(C10-C24)		336030	26460.6	10.0
G3	Diesel(C10-C28)		336030	26478.8	10.0



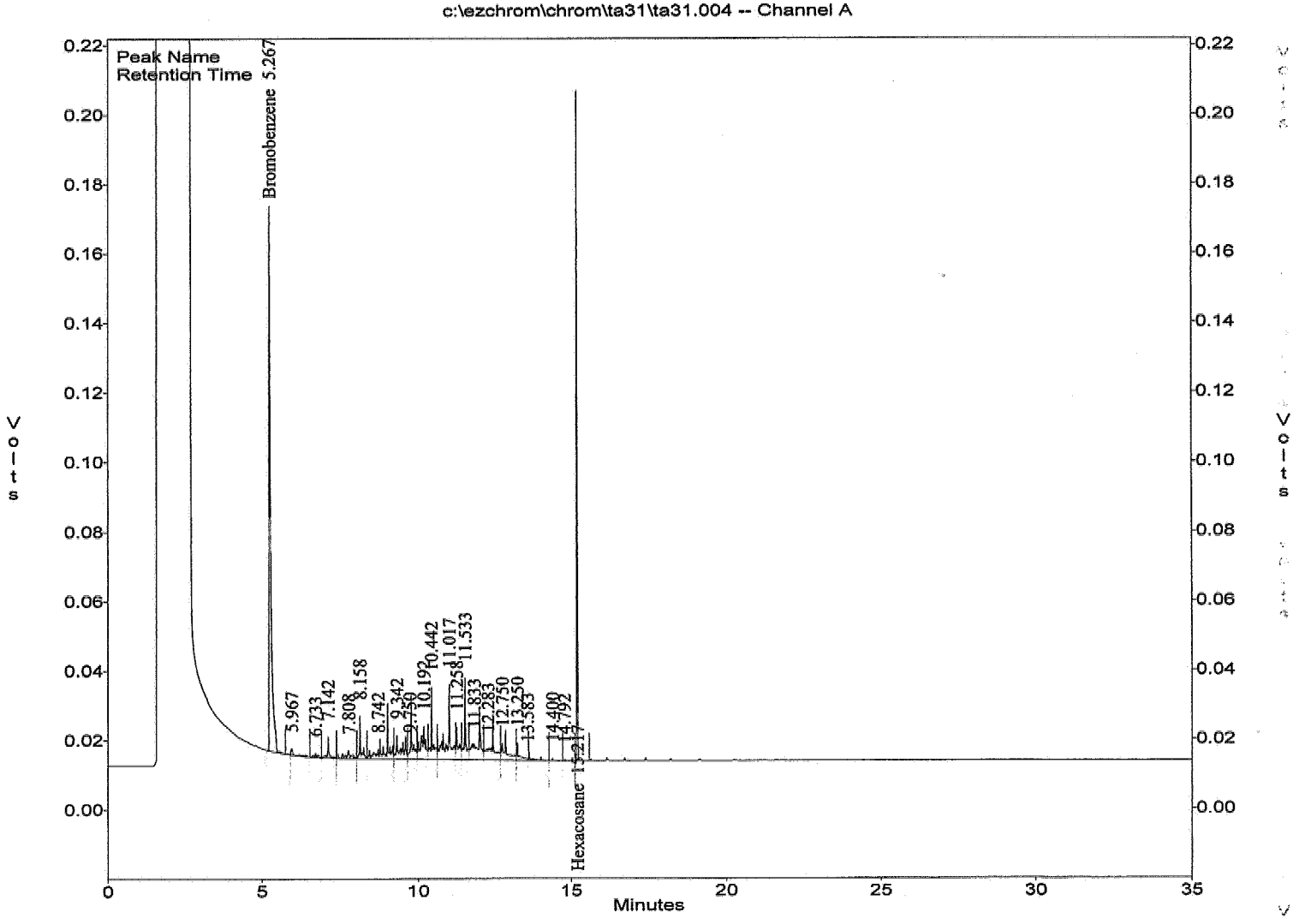
02/01/06

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.004
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3103 50/40/10
Acquired : Jan 31, 2006 16:26:47
Printed : Feb 01, 2006 09:34:49
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.267	574237	14214.3	40.0
22	Hexacosane	15.217	293707	28984.5	10.0
G1	Diesel(TOTAL)		1096379	26500.7	50.0
G2	Diesel(C10-C24)		1094793	26460.6	50.0
G3	Diesel(C10-C28)		1096379	26478.8	50.0



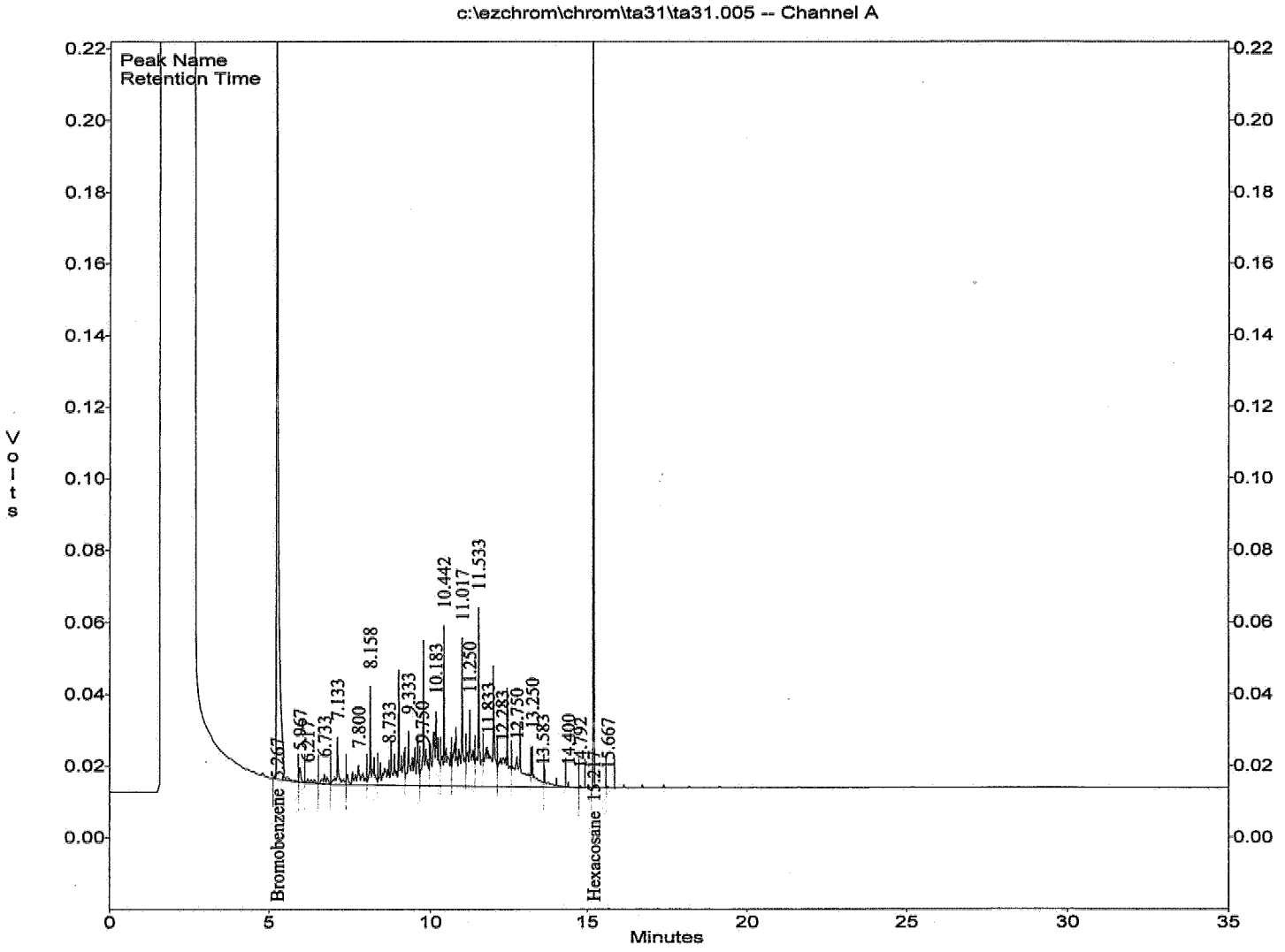
02/01/06

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.005
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3104 100/60/15
Acquired : Jan 31, 2006 17:08:56
Printed : Feb 01, 2006 09:35:08
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.267	908499	14214.3	60.0
23	Hexacosane	15.217	467670	28984.5	15.0
G1	Diesel(TOTAL)		2610524	26500.7	100.0
G2	Diesel(C10-C24)		2608042	26460.6	100.0
G3	Diesel(C10-C28)		2610524	26478.8	100.0



02/01/06

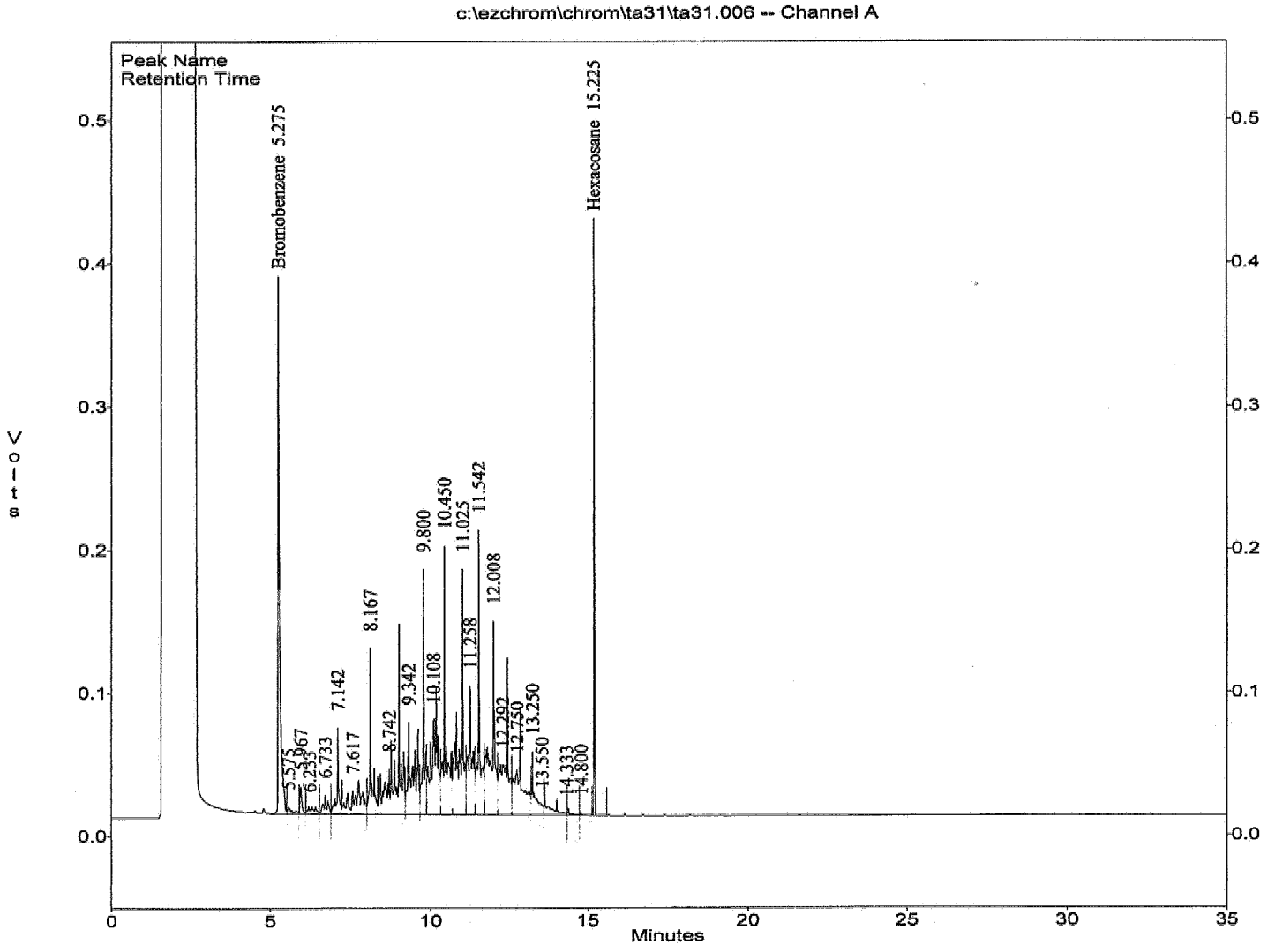
5020

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.006
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3105 500/100/2
Acquired : Jan 31, 2006 17:51:21
Printed : Feb 01, 2006 09:35:17
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.275	1334115	14214.3	100.0
24	Hexacosane	15.225	678205	28984.5	25.0
G1	Diesel(TOTAL)		11674800	26500.7	500.0
G2	Diesel(C10-C24)		11665009	26460.6	500.0
G3	Diesel(C10-C28)		11674800	26478.8	500.0



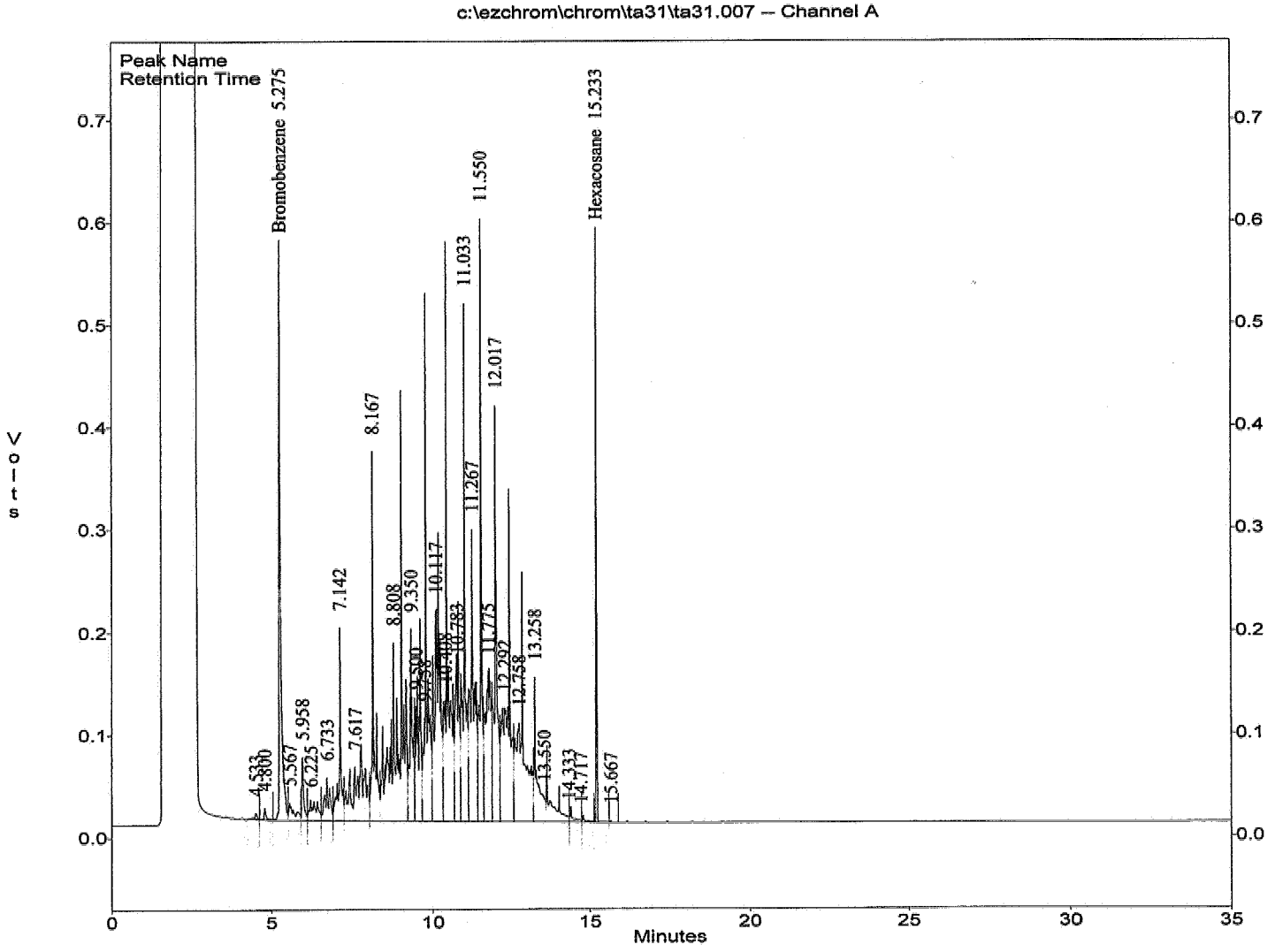
02/01/06
5021

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.007
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3106 1500/140/
Acquired : Jan 31, 2006 18:33:25
Printed : Feb 01, 2006 09:35:43
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
3	Bromobenzene	5.275	2029250	14214.3	140.0
29	Hexacosane	15.233	999027	28984.5	35.0
G1	Diesel(TOTAL)		37395864	26500.7	1500.0
G2	Diesel(C10-C24)		37267404	26460.6	1500.0
G3	Diesel(C10-C28)		37307612	26478.8	1500.0



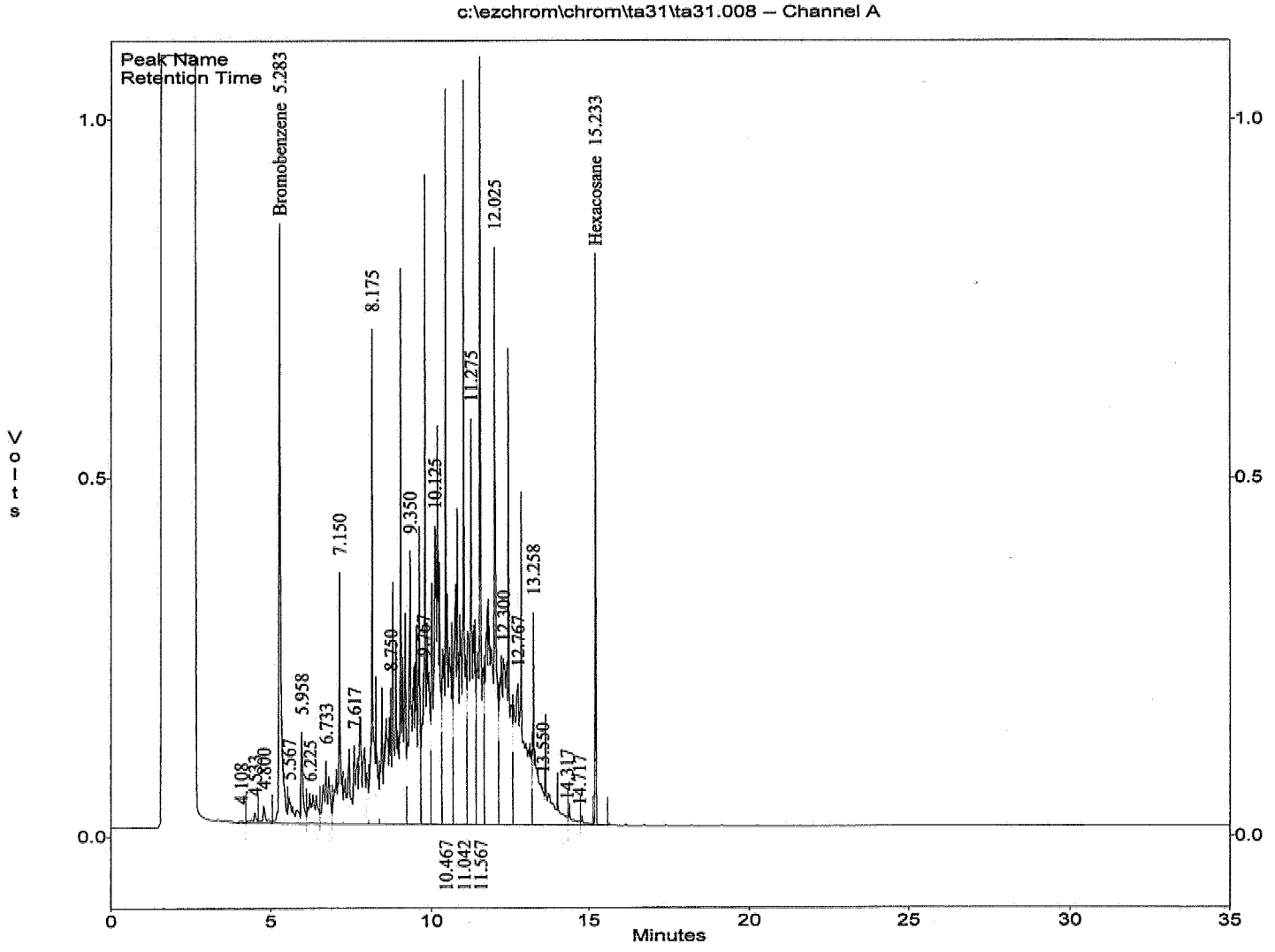
AA 02/01/06
5022

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.008
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3107 3000/220/
Acquired : Jan 31, 2006 19:15:30
Printed : Feb 01, 2006 09:35:51
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
4	Bromobenzene	5.283	3175897	14214.3	220.0
27	Hexacosane	15.233	1545839	28984.5	55.0
G1	Diesel(TOTAL)		77682664	26500.7	3000.0
G2	Diesel(C10-C24)		77324912	26460.6	3000.0
G3	Diesel(C10-C28)		77399448	26478.8	3000.0



2/10/06

5023

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
LFID & Datetime: TA05019A 01/05/06 23:55
LFID & Datetime: TA05020A 01/06/06 00:37
LFID & Datetime: TA05021A 01/06/06 01:19
LFID & Datetime: TA05022A 01/06/06 02:01
LFID & Datetime: TA05023A 01/06/06 02:43
LFID & Datetime: TA05024A 01/06/06 03:25
LFID & Datetime: TA05025A 01/06/06 04:07
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.00X	5.00X	50.00X	100.00X	150.00X	300.00X	MEAN	%RSD
JP5	10.00	19089	21129	20033	24716	24172	25573	26612	23046.2	12.7
5W30	10.00	33589	31968	34659	32099	30917	30603	31346	32168.8	4.6

J550A05M.MET

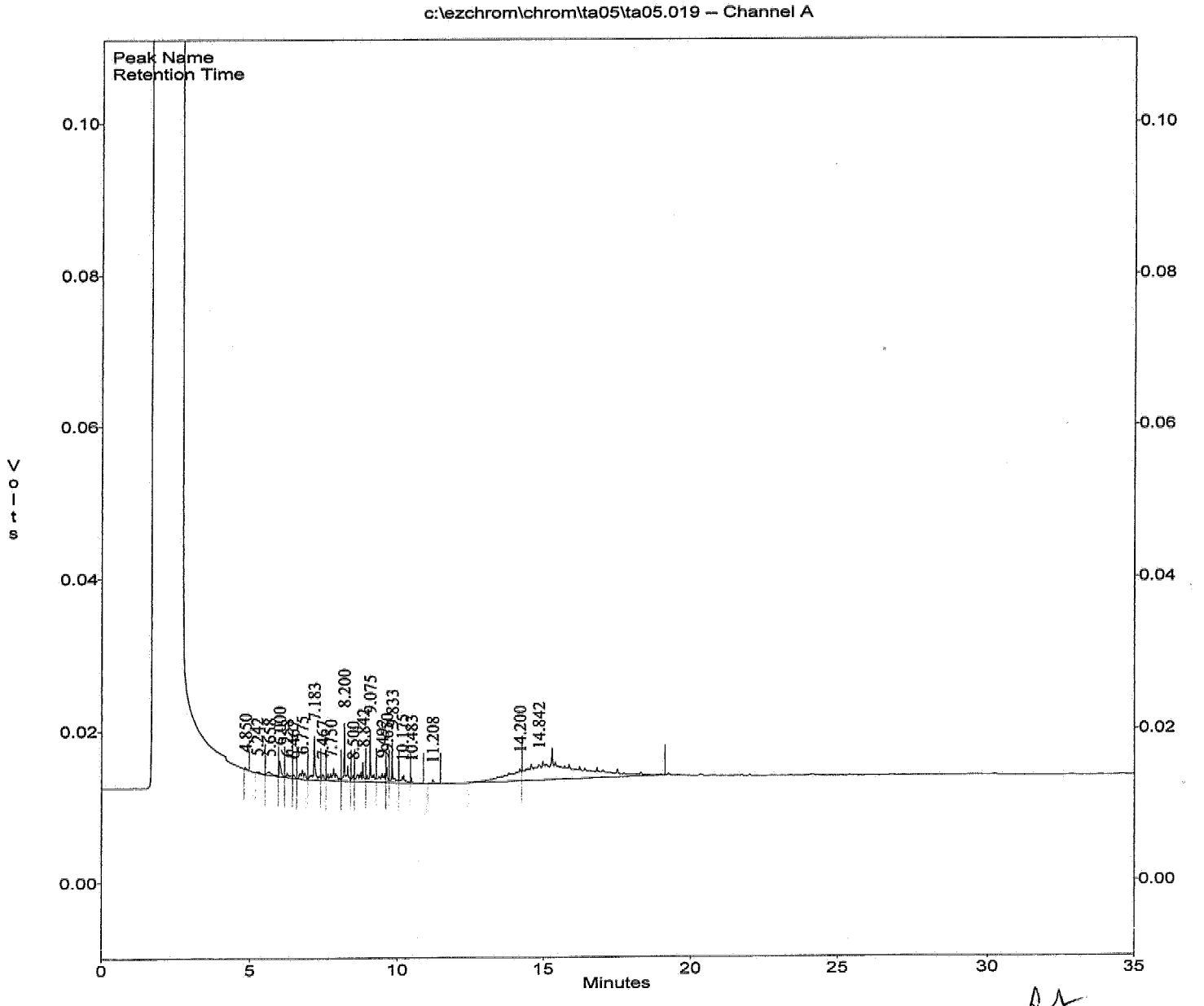
1/9/06

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.019 ✓
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M01 10PPM
Acquired : Jan 05, 2006 23:55:57 ✓
Printed : Jan 06, 2006 09:55:49
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		190889 ✓	23046.2	10.0
G2	5W30		335894 ✓	32168.8	10.0



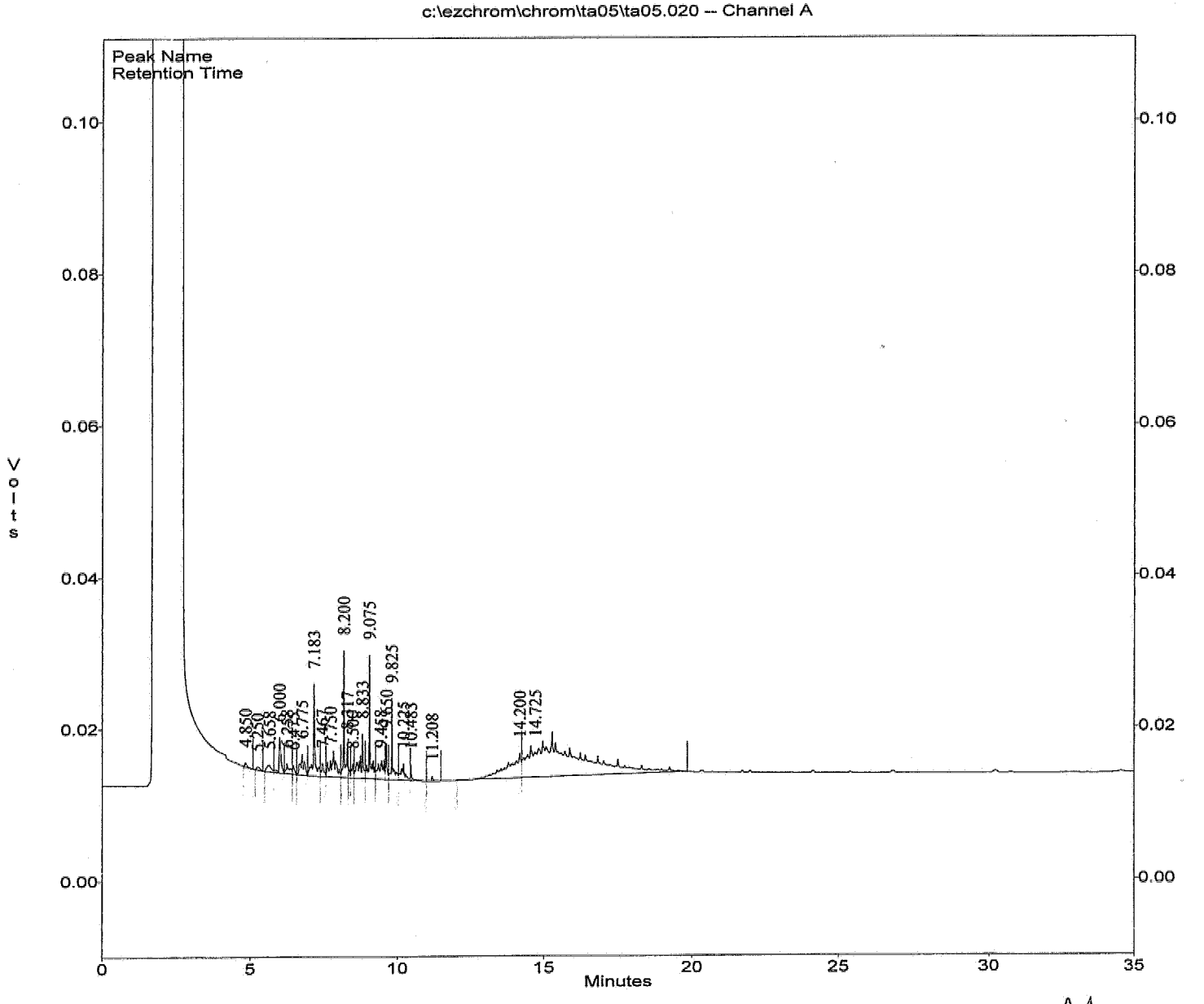
1/9/06

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.020
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M02 20PPM
Acquired : Jan 06, 2006 00:37:56
Printed : Jan 06, 2006 09:55:55
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		422586	23046.2	20.0
G2	5W30		639352	32168.8	20.0



1/9/06

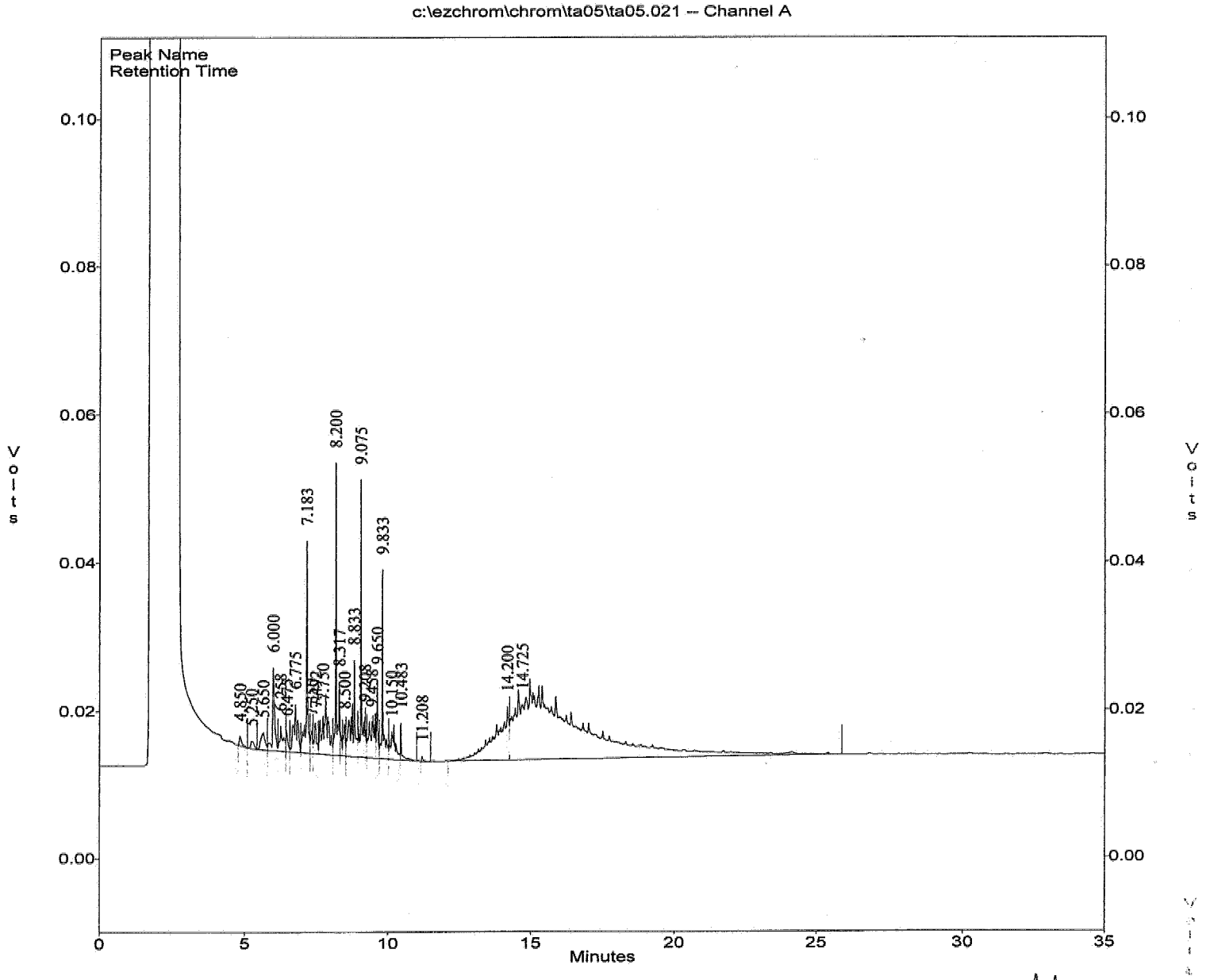
5026

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.021
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M03 50PPM
Acquired : Jan 06, 2006 01:19:54
Printed : Jan 06, 2006 09:56:08
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		1001658 ✓	23046.2	50.0
G2	5W30		1732935 ✓	32168.8	50.0



AS 1/9/06

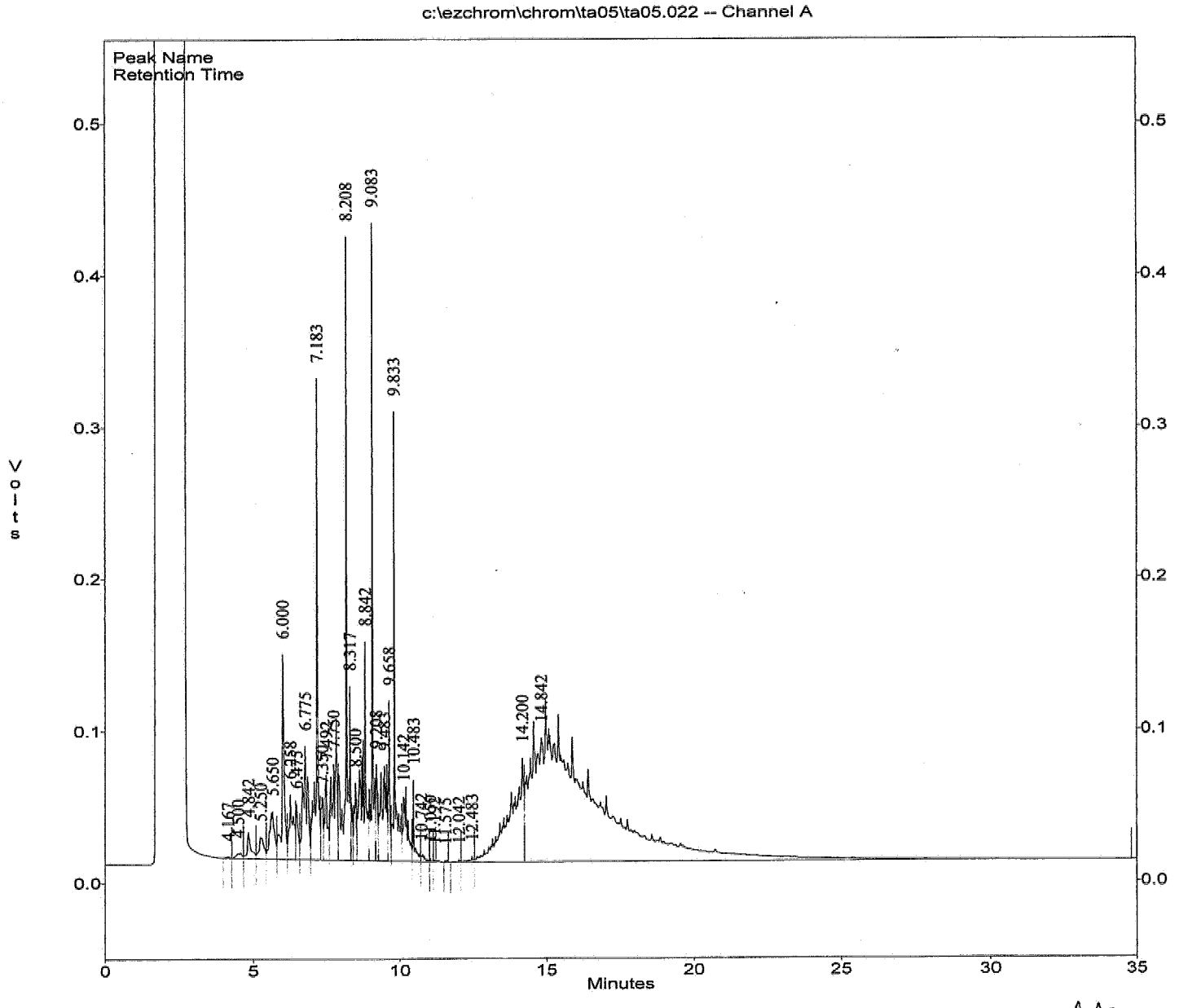
5027

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.022
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M04 500PPM
Acquired : Jan 06, 2006 02:01:52
Printed : Jan 06, 2006 09:56:41
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		12357981	23046.2	500.0
G2	5W30		16049524	32168.8	500.0



1/9/06

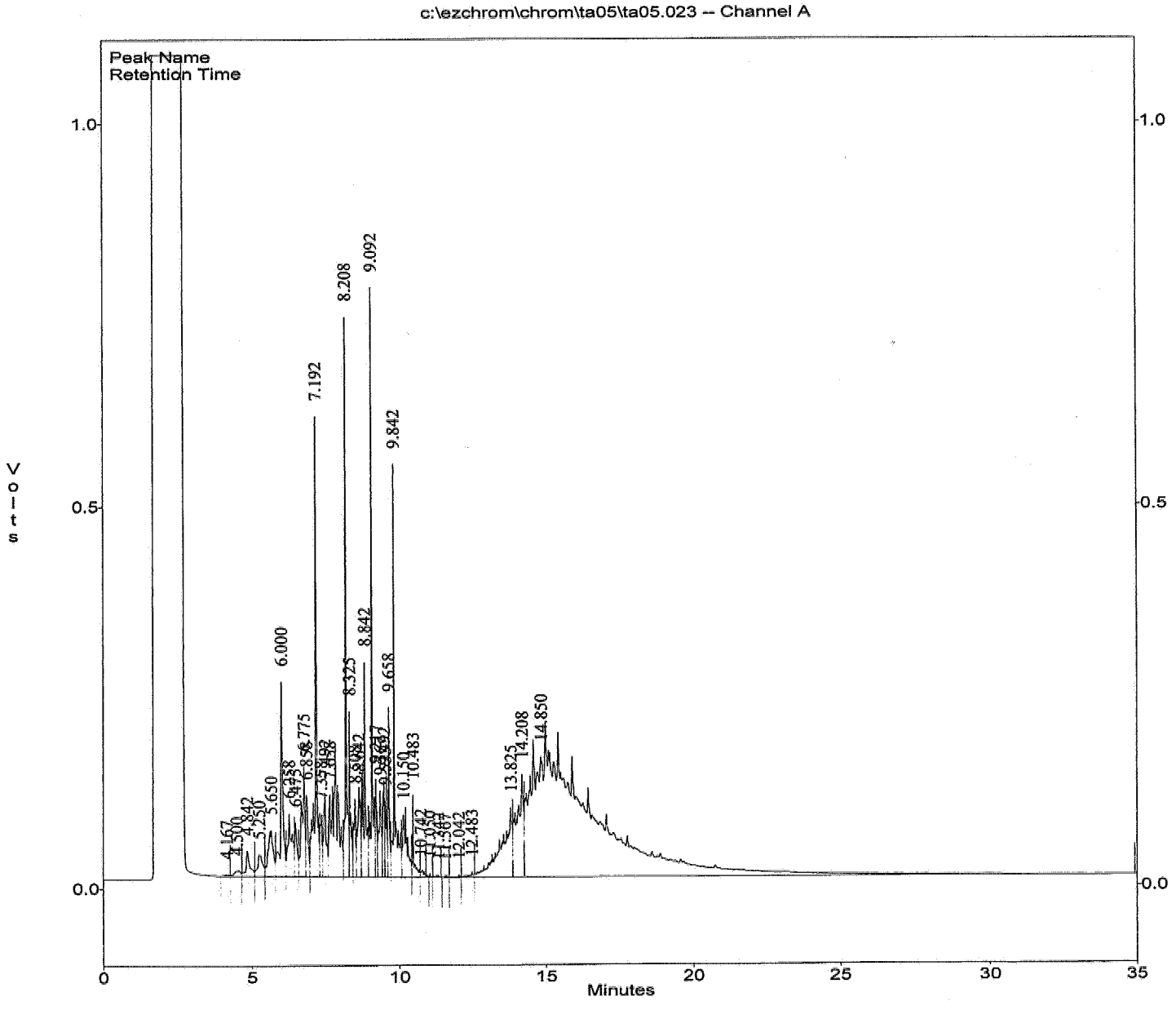
5028

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.023
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M05 1000PPM
Acquired : Jan 06, 2006 02:43:50
Printed : Jan 06, 2006 09:57:19
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		24171588	23046.2	1000.0
G2	5W30		30917232	32168.8	1000.0



1/9/06

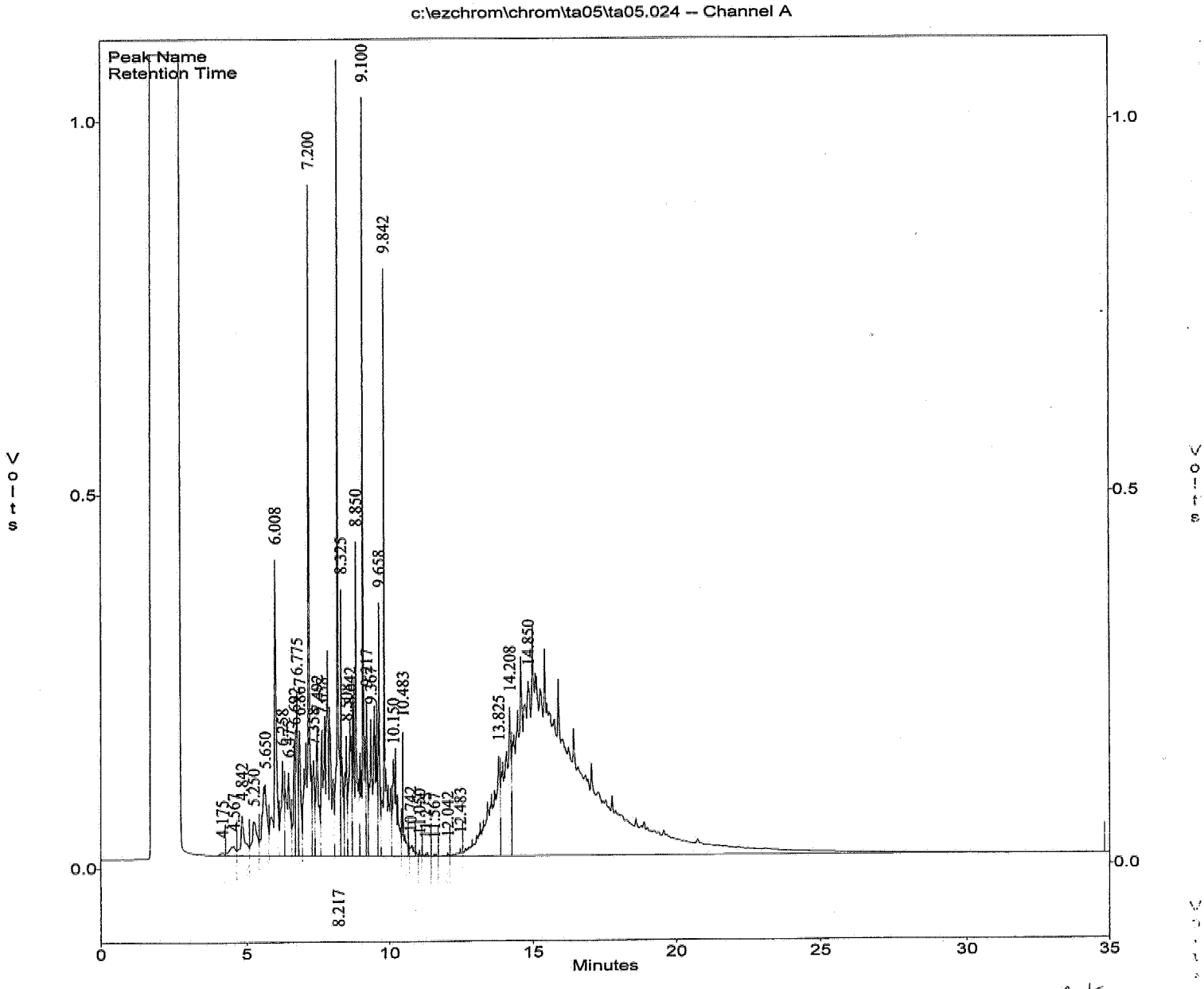
5029

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.024
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M06 1500PPM
Acquired : Jan 06, 2006 03:25:48
Printed : Jan 06, 2006 09:57:24
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		38358784	23046.2	1500.0
G2	5W30		45905100	32168.8	1500.0



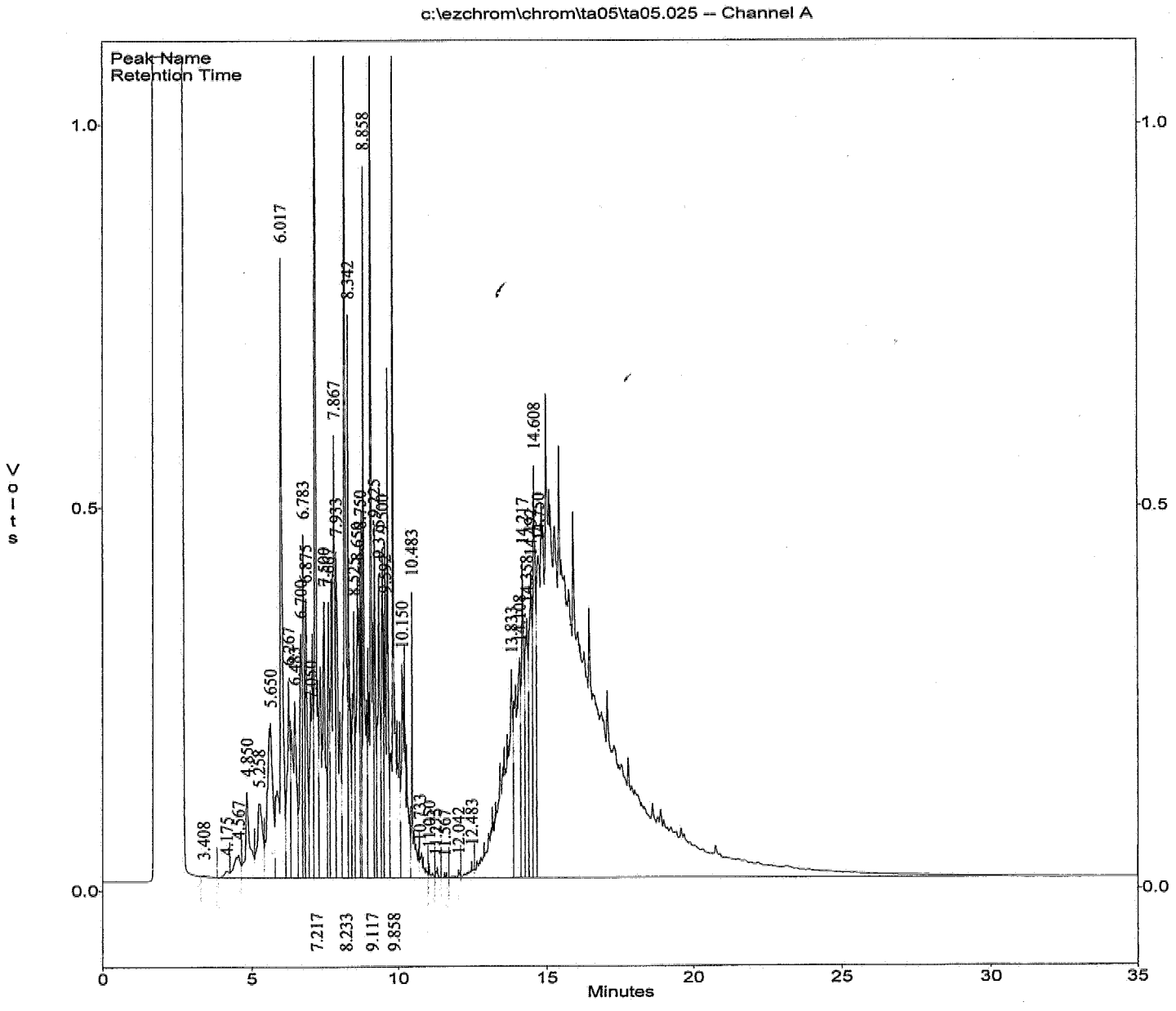
AA 1/9/06

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.025
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : J550A05M07 3000PPM
Acquired : Jan 06, 2006 04:07:45
Printed : Jan 06, 2006 09:57:28
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		79836656	23046.2	3000.0
G2	5W30		94039104	32168.8	3000.0



5031

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TA31011A 01/31/2006 21:21
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	13255810	500.21	0		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	13131692	496.27	-1		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	13174570	497.55	-0		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.275	5.188	5.362	100.0	14214.3	1337667	94.11	-6		15
HEXACOSANE	15.225	14.892	15.558	25.0	28984.5	687118	23.71	-5		15

DS50A31.MET

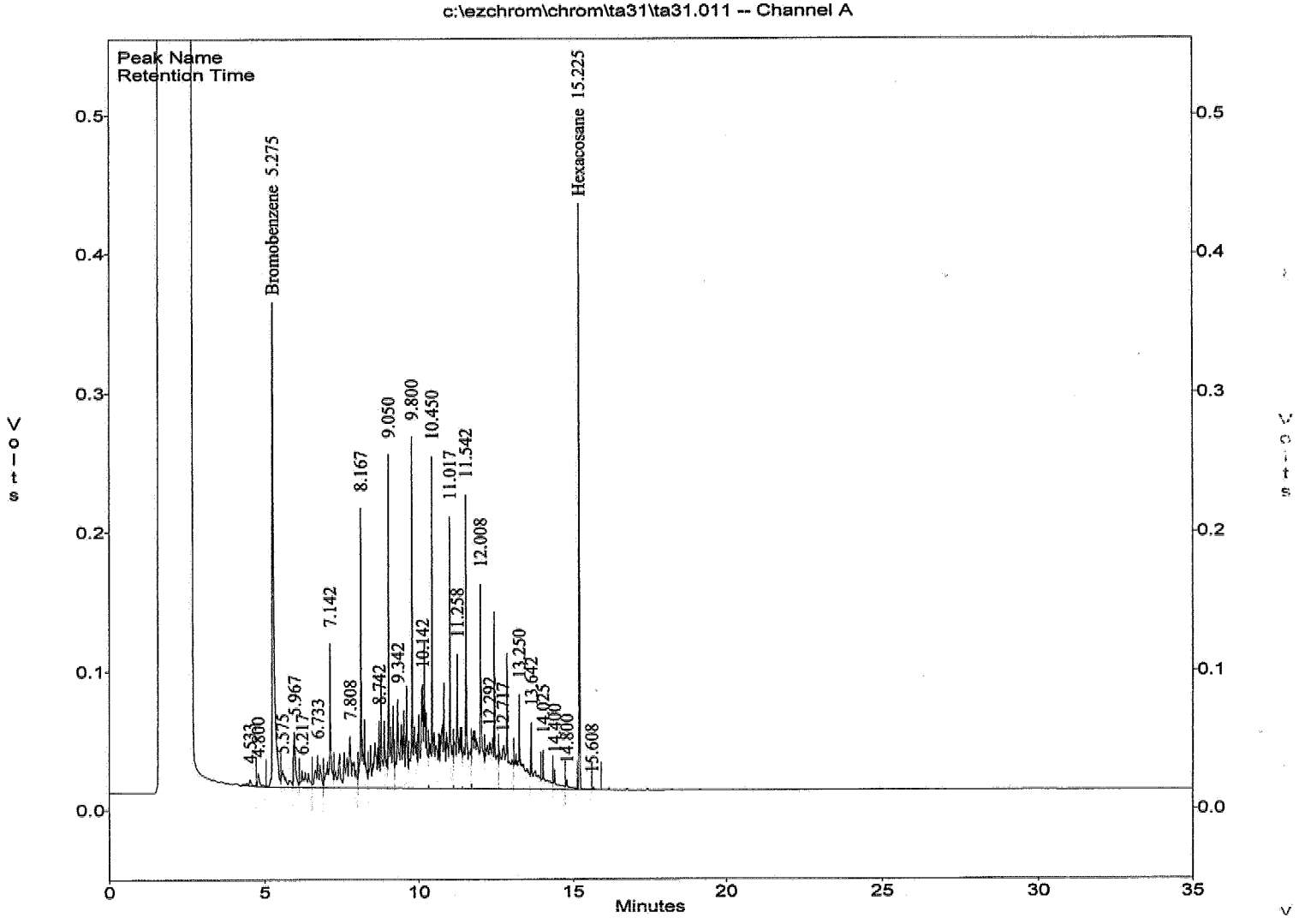
02/01/06

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.011
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : IDS50A3101 500PPM
Acquired : Jan 31, 2006 21:21:44
Printed : Feb 01, 2006 09:36:17
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
3	Bromobenzene	5.275	1337667	14214.3	94.1
28	Hexacosane	15.225	687118	28984.5	23.7
G1	Diesel(TOTAL)		13255810	26500.7	500.2
G2	Diesel(C10-C24)		13131692	26460.6	496.3
G3	Diesel(C10-C28)		13174570	26478.8	497.6



02/01/06

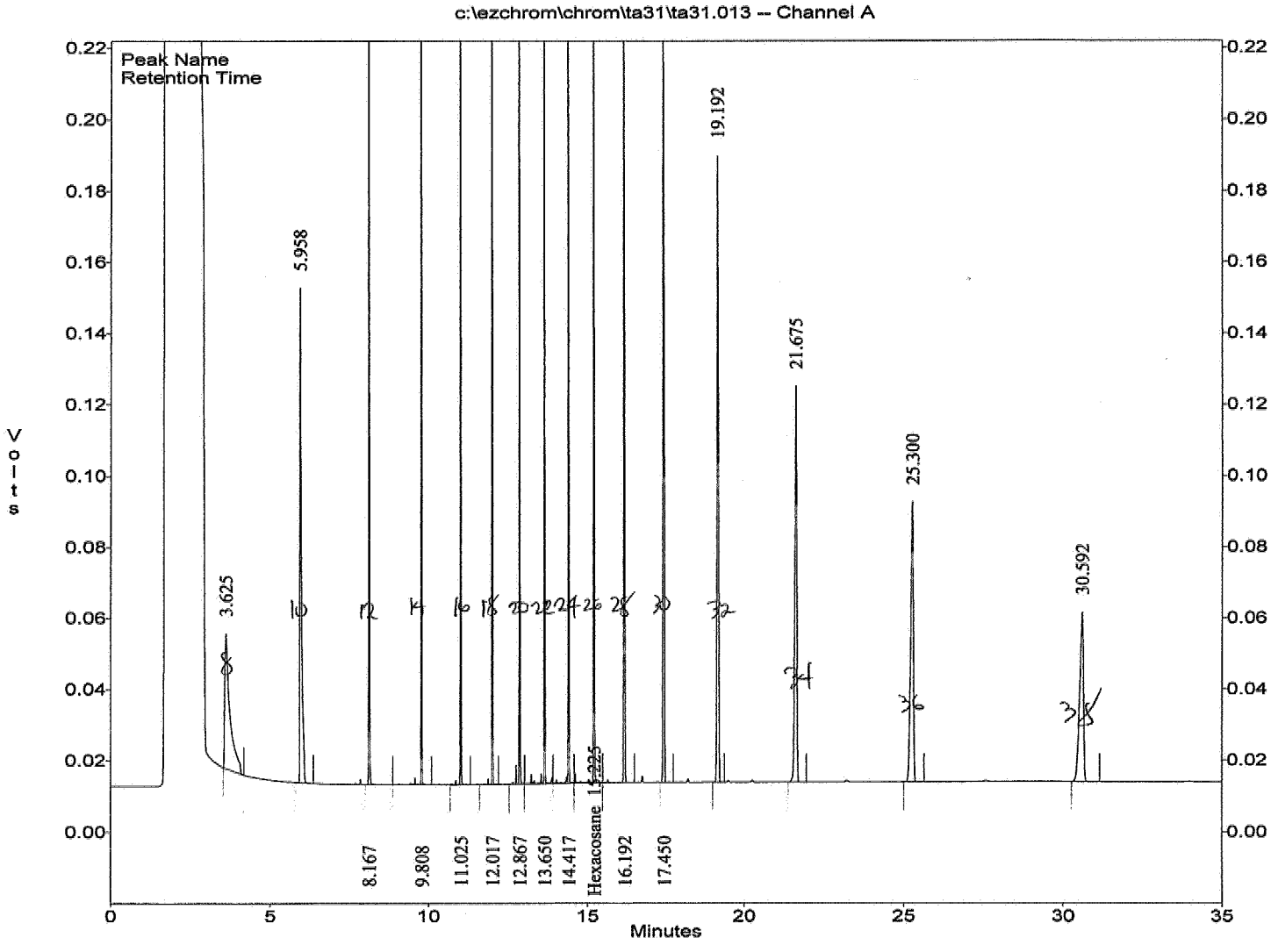
5034

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.013
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : HC-CHAIN
Acquired : Jan 31, 2006 22:45:44
Printed : Feb 01, 2006 09:38:59
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Bromobenzene	5.283	0	0.0	0.0
10	Hexacosane	15.225	612551	28984.5	21.1
G1	Diesel(TOTAL)		7808933	26500.7	294.7
G2	Diesel(C10-C24)		4312145	26460.6	163.0
G3	Diesel(C10-C28)		4904687	26478.8	185.2



AJ
02/01/06

5035

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Columm : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
Conc Cont LFID & Datetime: TA05026A 01/06/2006 04:49
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5	0.000	0.000	0.000	500.0	23046.2	11649619	505.49	1		15
5W30	0.000	0.000	0.000	500.0	32168.8	16021303	498.04	-0		15

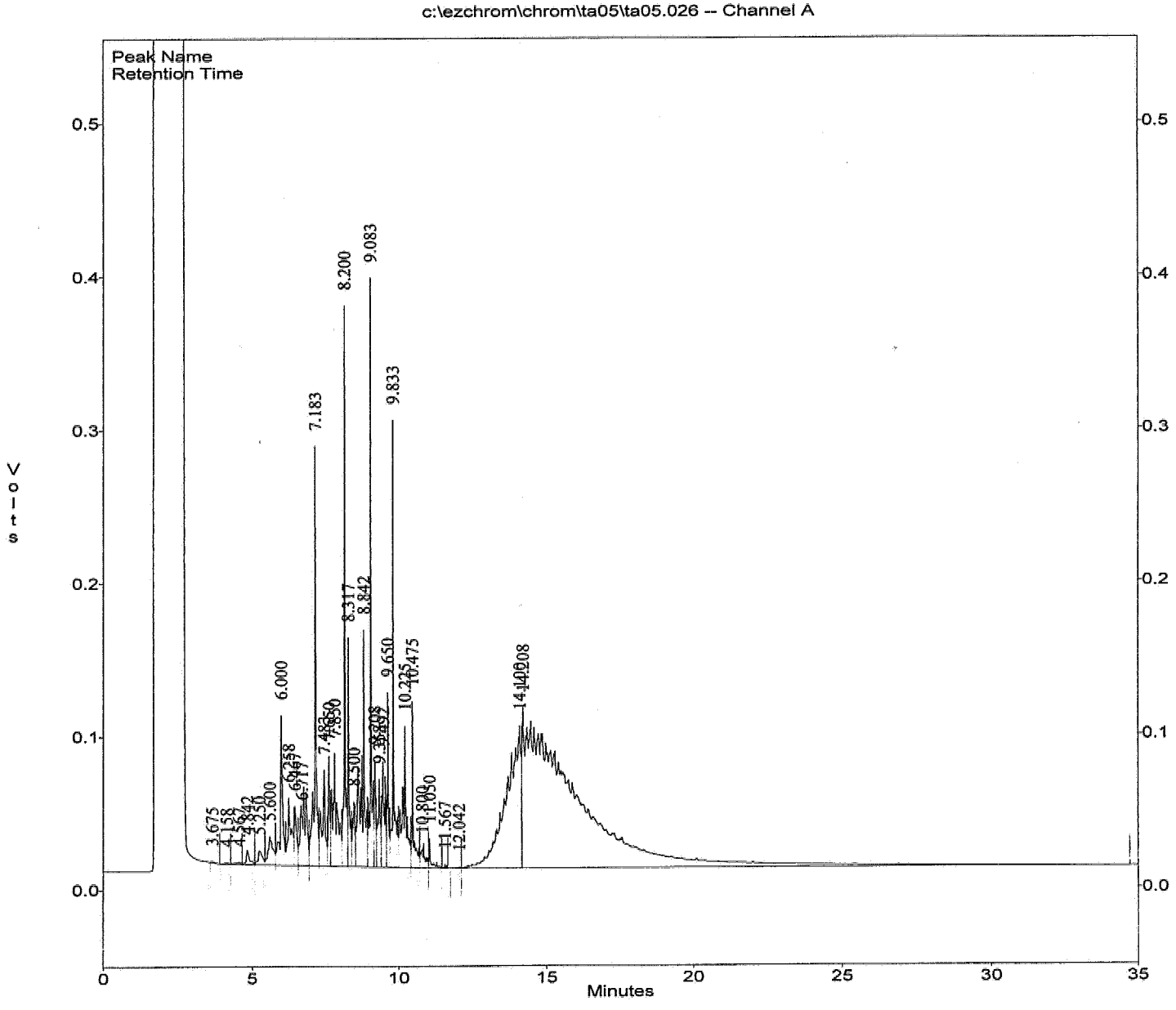
J550A05M.MET

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.026
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : IJ550A05M01 500PPM
Acquired : Jan 06, 2006 04:49:39
Printed : Jan 06, 2006 09:57:56
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		11649619	23046.2	505.5
G2	5W30		16021303	32168.8	498.0

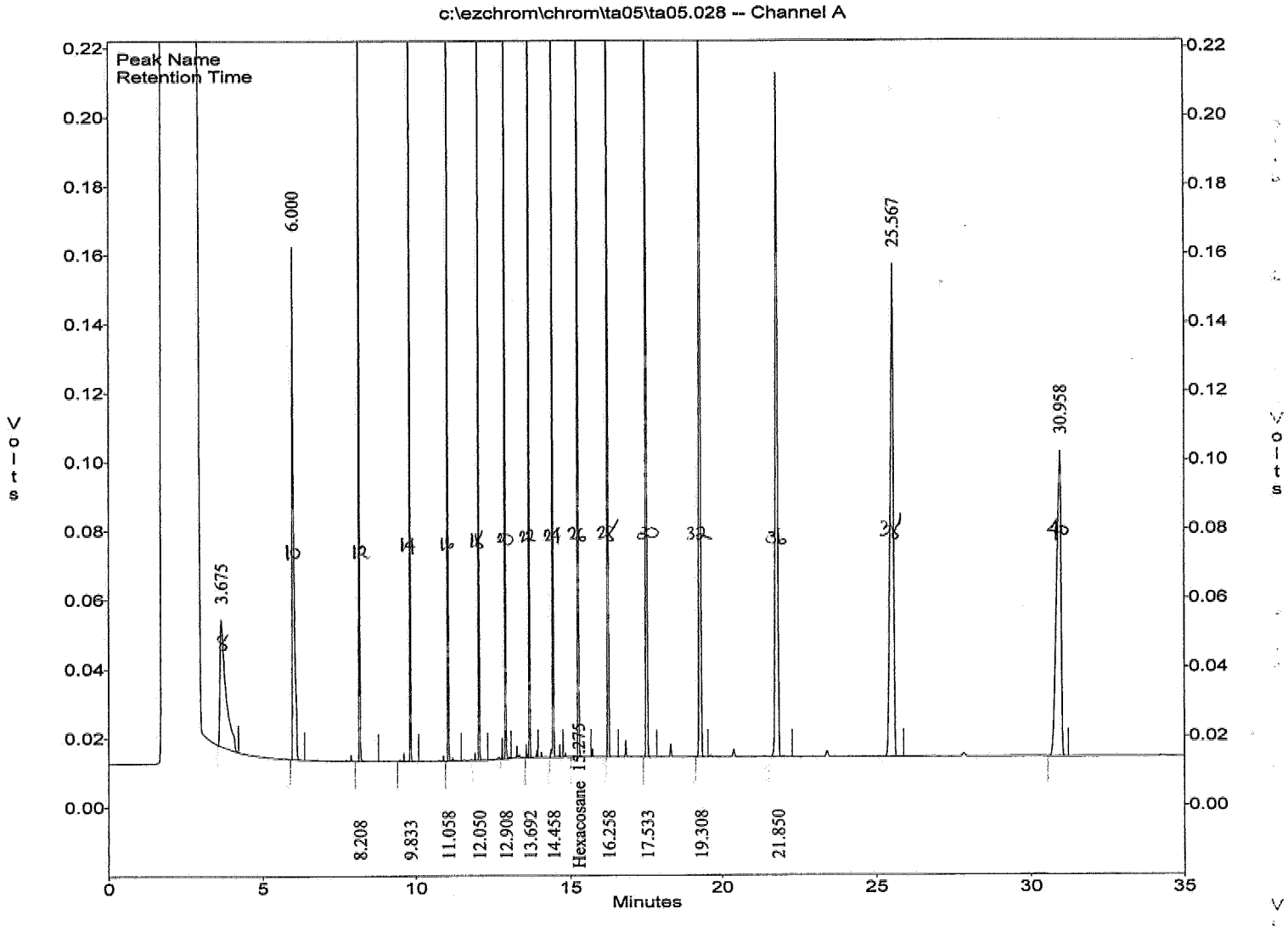


METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.028
Method : c:\ezchrom\methods\ds50k28.met
Sample ID : HC-CHAIN
Acquired : Jan 06, 2006 06:13:28
Printed : Jan 06, 2006 09:49:23
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Bromobenzene	5.350	0	0.0	0.0
10	Hexacosane	15.275	785899	31441.2	25.0
G1	Diesel(TOTAL)		10840643	25617.3	423.2
G2	Diesel(C10-C24)		5027696	25569.5	196.6
G3	Diesel(C10-C28)		5789143	25586.1	226.3



DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Columm : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TC27014A 03/27/2006 22:32
CONC UNIT : ppm

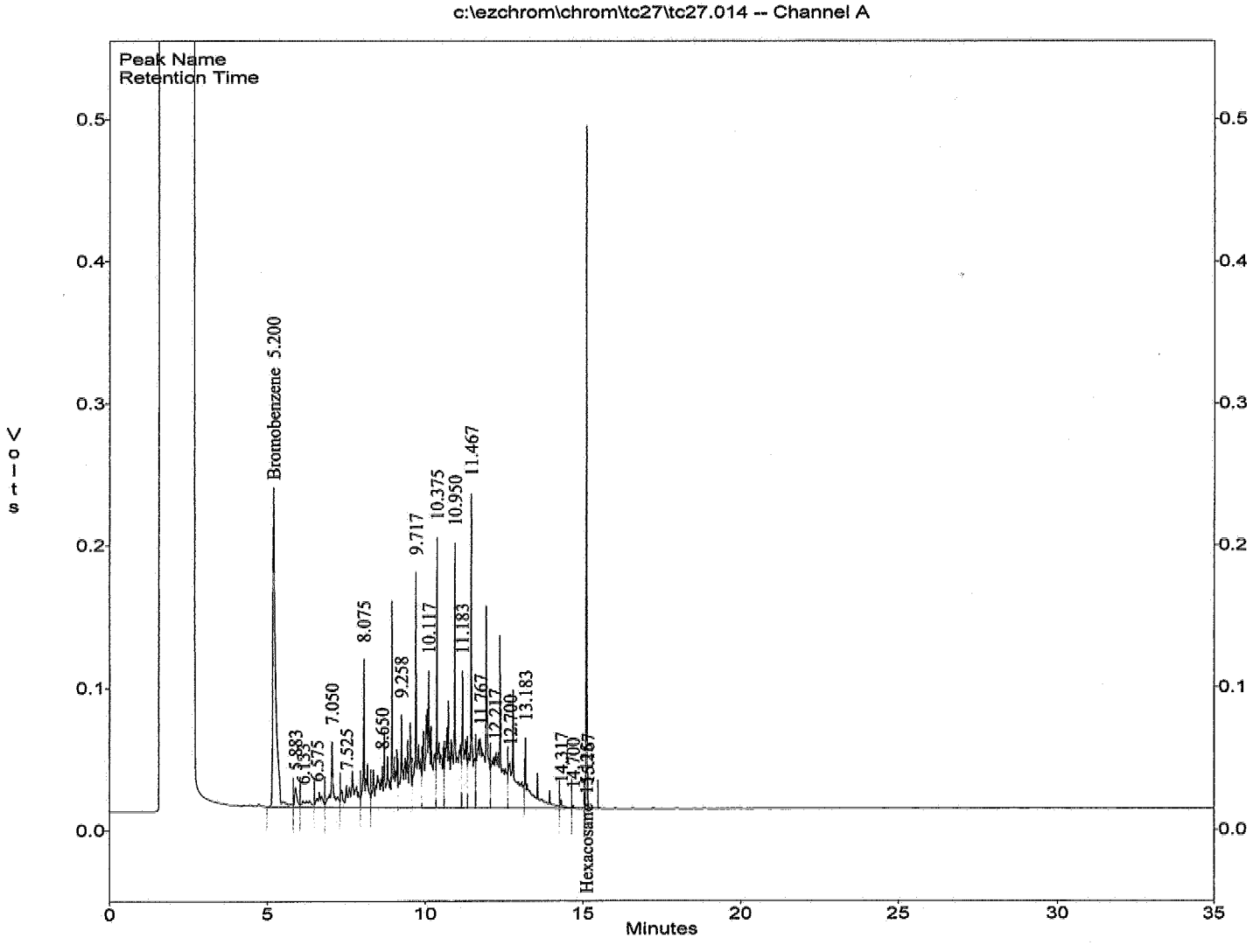
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	12181272	459.66	-8		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	12096738	457.16	-9		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	12106494	457.21	-9		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.200	5.113	5.287	100.0	14214.3	1376537	96.84	-3		15
HEXACOSANE	15.125	14.792	15.458	25.0	28984.5	781316	26.96	8		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc27\tc27.014
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : CDS50A31614 D500
Acquired : Mar 27, 2006 22:32:30
Printed : Mar 28, 2006 10:15:24
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.200	1376537	14214.3	96.8
22	Hexacosane	15.125	781316	28984.5	27.0
G1	Diesel(TOTAL)		12181272	26500.7	459.7
G2	Diesel(C10-C24)		12096738	26460.6	457.2
G3	Diesel(C10-C28)		12106494	26478.8	457.2



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Columm : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
Conc Cont LFID & Datetime: TC27015A 03/27/2006 23:14
CONC UNIT : ppm

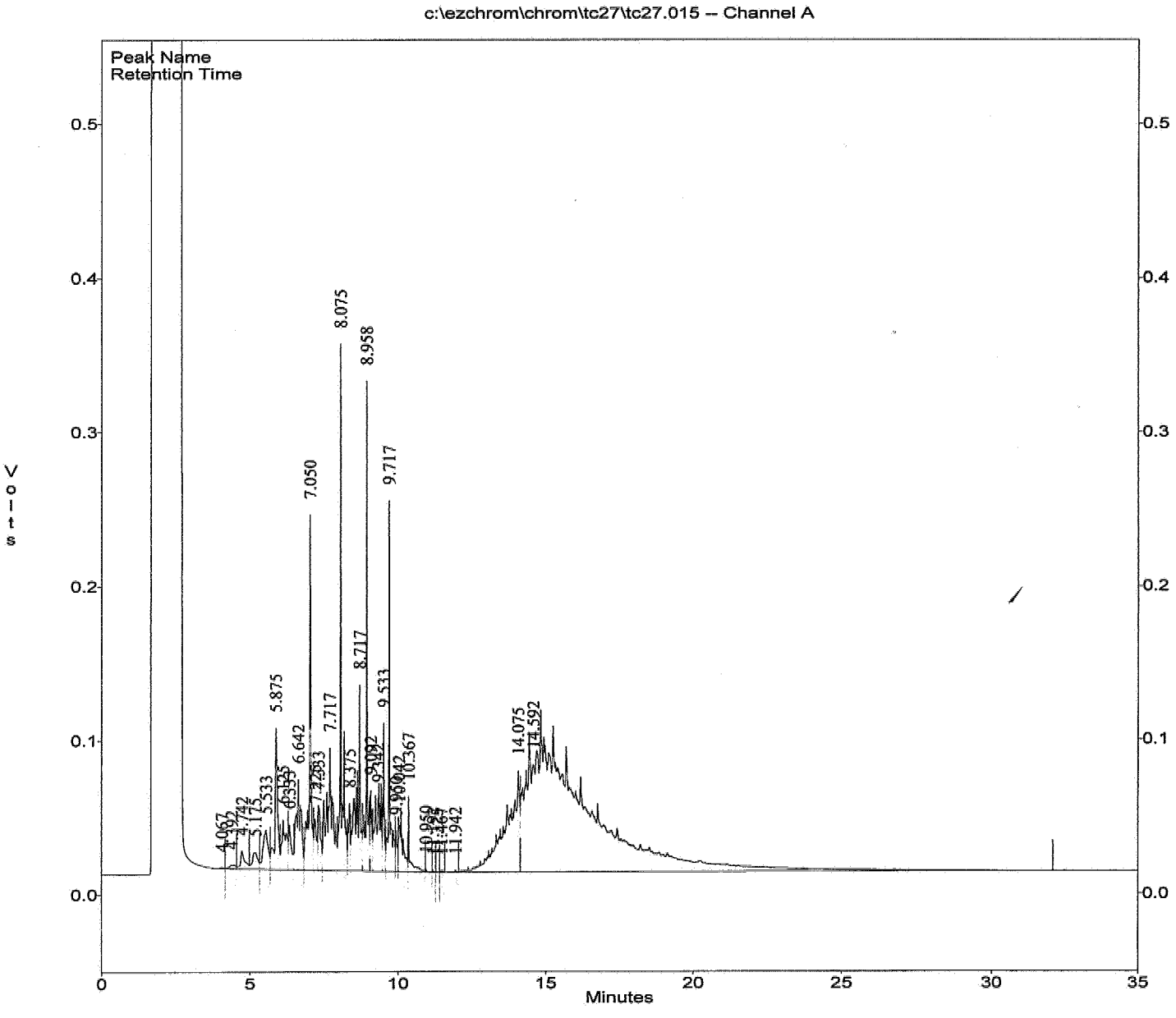
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5	0.000	0.000	0.000	500.0	23046.2	10464595	454.07	-9		15
5W30	0.000	0.000	0.000	500.0	32168.8	15357594	477.41	-5		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc27\tc27.015
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : CJ550A05M615 JP5/MO
Acquired : Mar 27, 2006 23:14:15
Printed : Mar 28, 2006 10:15:31
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		10464595	23046.2	454.1
G2	5W30		15357594	32168.8	477.4



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TC27027A 03/28/2006 07:33
CONC UNIT : ppm

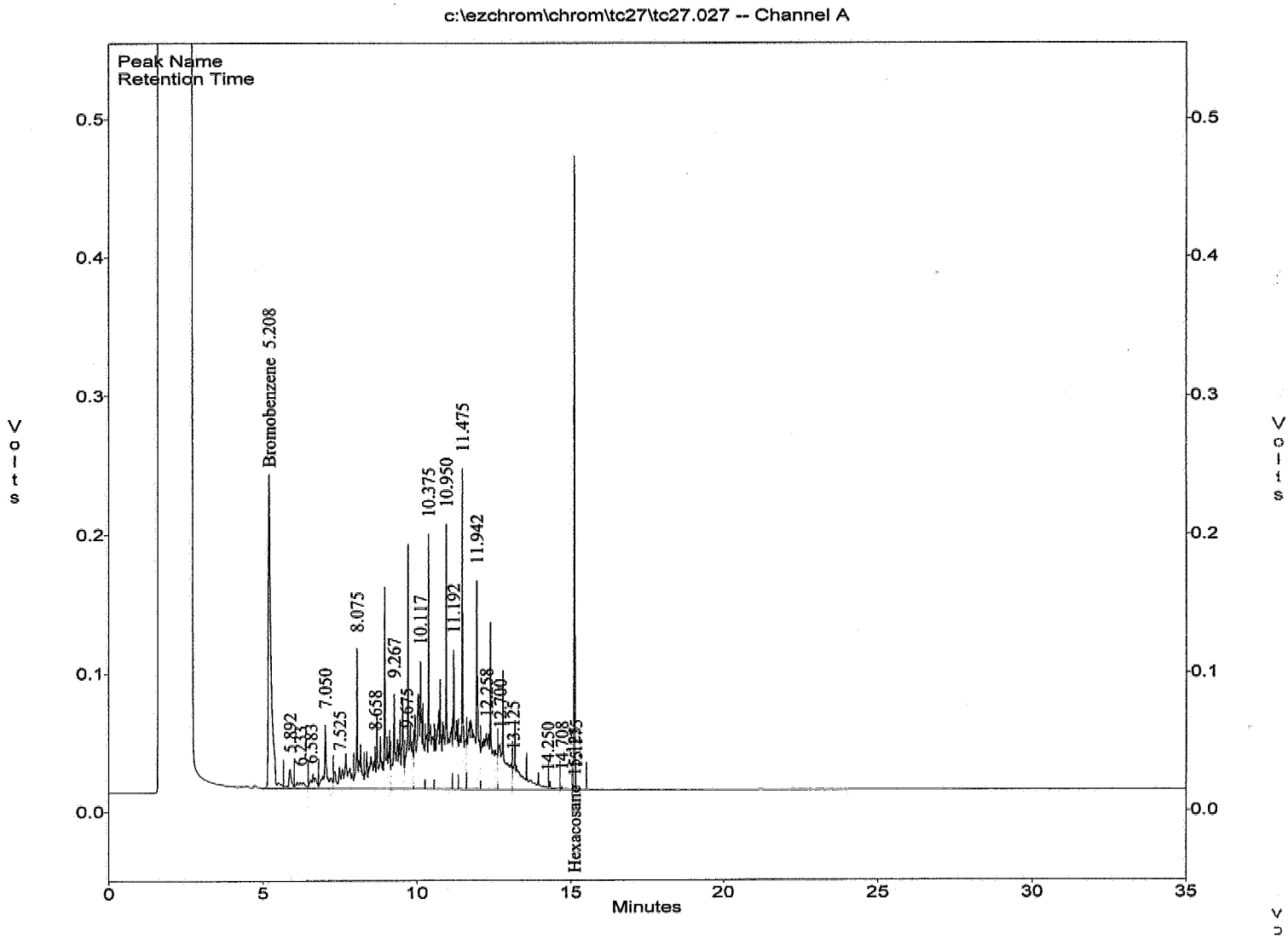
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	12421984	468.74	-6		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	12323912	465.75	-7		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	12333859	465.80	-7		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.208	5.121	5.295	100.0	14214.3	1374959	96.73	-3		15
HEXACOSANE	15.125	14.792	15.458	25.0	28984.5	787425	27.17	9		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc27\tc27.027
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : CDS50A31616 D500
Acquired : Mar 28, 2006 07:33:03
Printed : Mar 28, 2006 10:31:32
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.208	1374959	14214.3	96.7
22	Hexacosane	15.125	787425	28984.5	27.2
G1	Diesel(TOTAL)		12421984	26500.7	468.7
G2	Diesel(C10-C24)		12323912	26460.6	465.7
G3	Diesel(C10-C28)		12333859	26478.8	465.8



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Columm : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
Conc Cont LFID & Datetime: TC27028A 03/28/2006 08:14
CONC UNIT : ppm

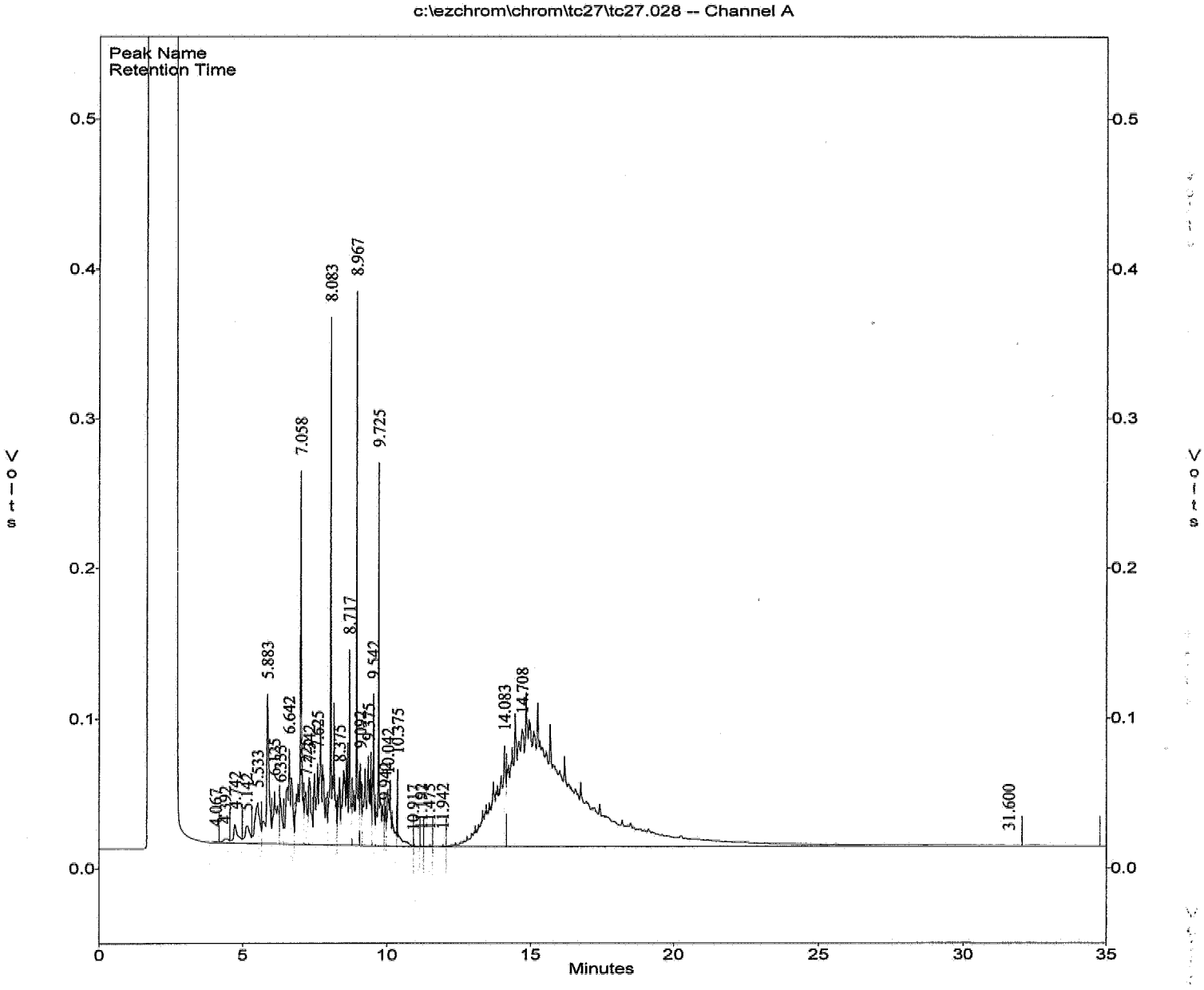
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5	0.000	0.000	0.000	500.0	23046.2	10919177	473.79	-5		15
5W30	0.000	0.000	0.000	500.0	32168.8	15366599	477.69	-4		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc27\tc27.028
Method : c:\ezchrom\methods\j550a05m.met
Sample ID : CJ550A05M617 JP5/MO
Acquired : Mar 28, 2006 08:14:29
Printed : Mar 28, 2006 10:31:38
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		10919177	23046.2	473.8
G2	5W30		15366599	32168.8	477.7



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Columm : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TC27031A 03/28/2006 10:19
CONC UNIT : ppm

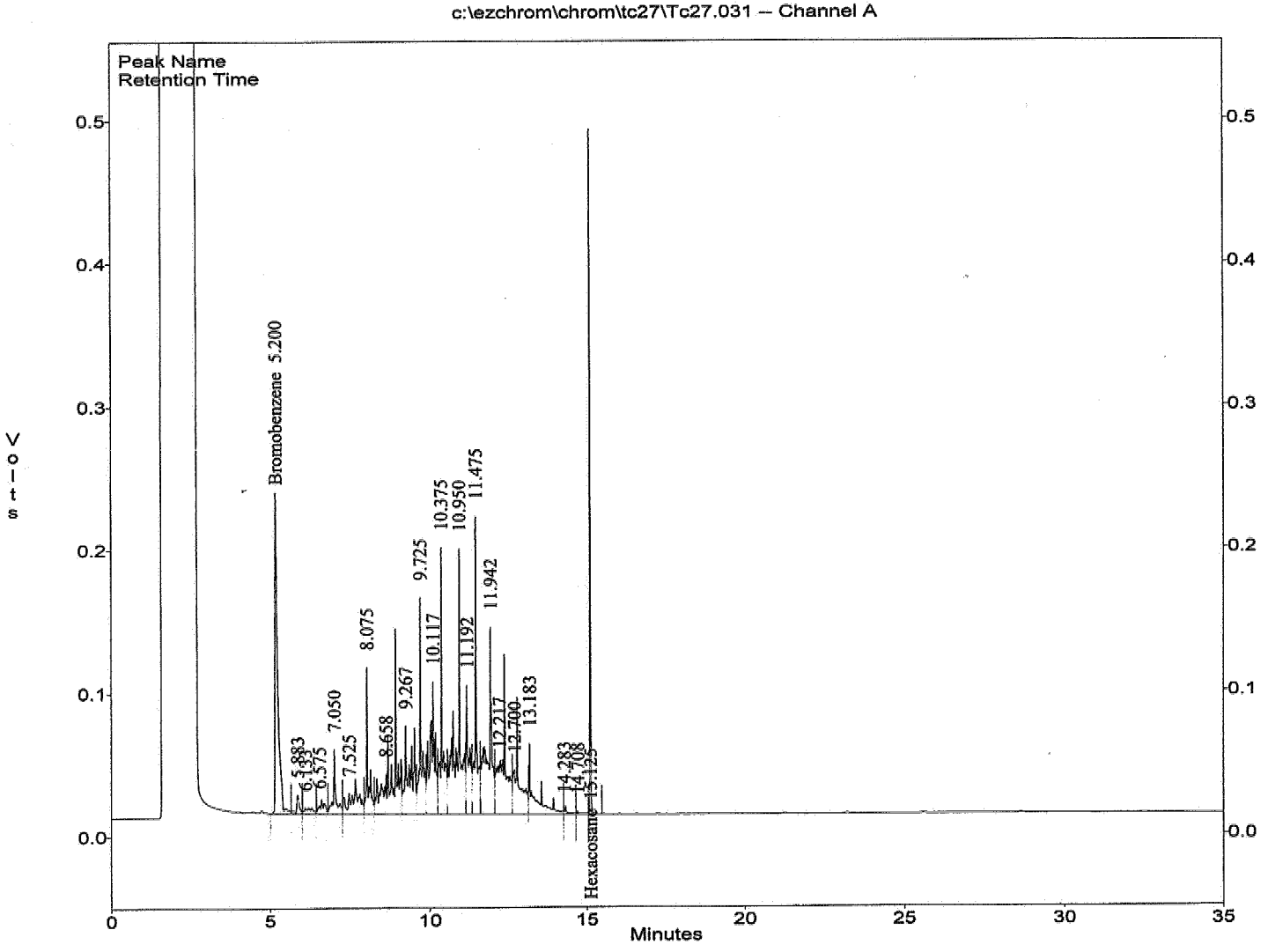
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	11575589	436.80	-13		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	11485618	434.07	-13		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	11494648	434.11	-13		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.200	5.113	5.287	100.0	14214.3	1321344	92.96	-7		15
HEXACOSANE	15.125	14.792	15.458	25.0	28984.5	778920	26.87	7		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc27\Tc27.031
Method : c:\ezchrom\methods\Ds50a31.met
Sample ID : CDS50A31618 D500
Acquired : Mar 28, 2006 10:19:19
Printed : Mar 28, 2006 10:54:20
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Bromobenzene	5.200	1321344	14214.3	93.0
22	Hexacosane	15.125	778920	28984.5	26.9
G1	Diesel(TOTAL)		11575589	26500.7	436.8
G2	Diesel(C10-C24)		11485618	26460.6	434.1
G3	Diesel(C10-C28)		11494648	26478.8	434.1



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO50
GC Columm : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
Conc Cont LFID & Datetime: TC27032A 03/28/2006 11:01
CONC UNIT : ppm

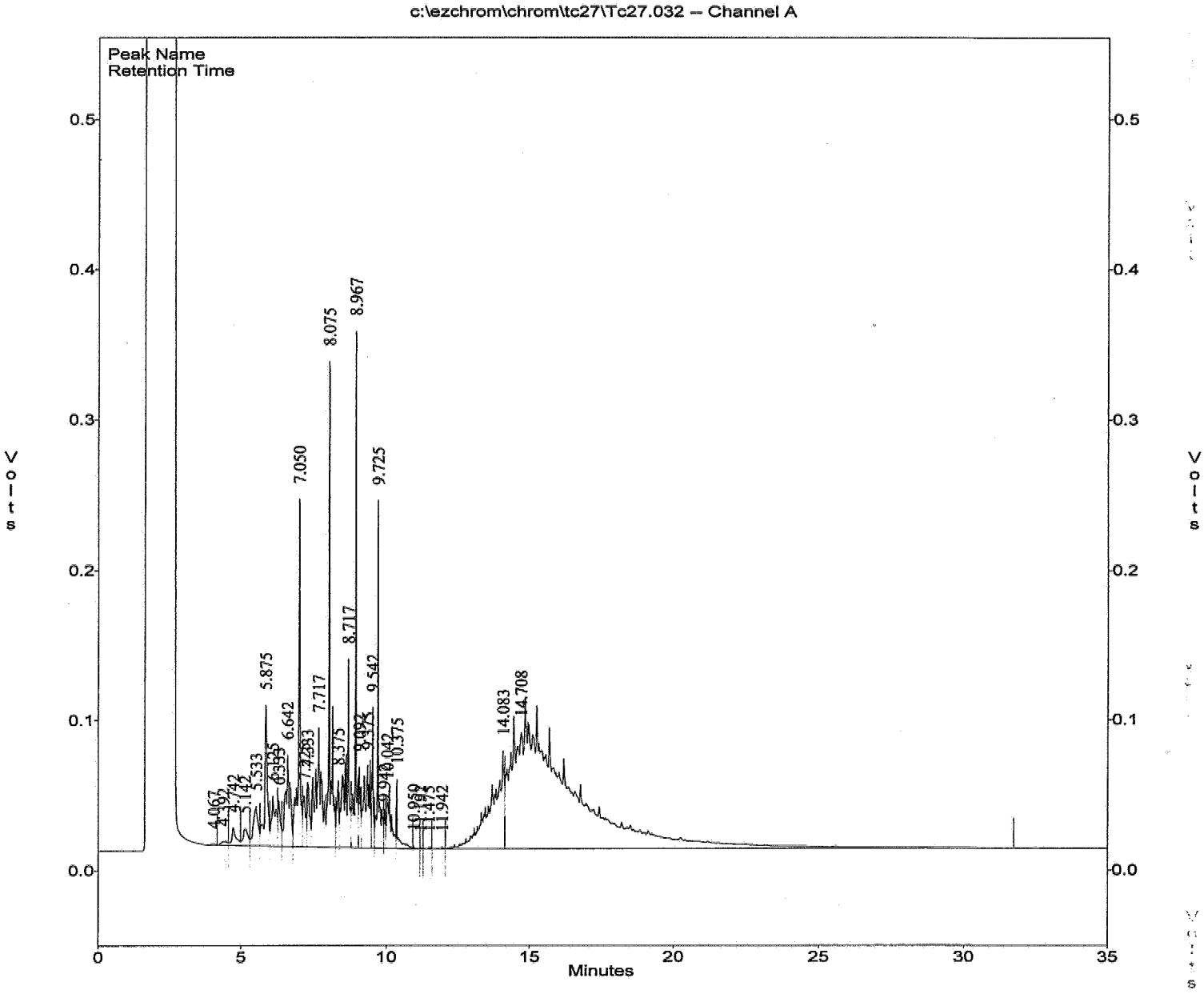
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5	0.000	0.000	0.000	500.0	23046.2	10539923	457.34	-9		15
5W30	0.000	0.000	0.000	500.0	32168.8	15032041	467.29	-7		15

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc27\Tc27.032
Method : c:\ezchrom\methods\J550a05m.met
Sample ID : CJ550A05M618 JP5/MO
Acquired : Mar 28, 2006 11:01:00
Printed : Mar 28, 2006 11:36:02
User : JANE

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(ppm)
G1	JP5		10539923	23046.2	457.3
G2	5W30		15032041	32168.8	467.3



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP ☑ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☐ Book # A50-023

Starting Date: 03.27.06 Time: 13:29 Ending Date: 08.28.06 Time: 06:10

ANALYTICAL BATCH CQSSOA1G12

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	TC29.001	IBSDCG12				
	.002	CQSSOA31G12				DRO
	.003	CUSSOA05MG13				JP5/SW30; 500 ppm
DSC020W	.004	06C166B.27W	1		✓	
	.005	33W				
	.006	39W				
	.007	06C187.01W				
	.008	02W				
	.009	03W				
	.010	04W				
DSC022SL	.011	DSC022SL		✓		
	.012	C				
	.013	B				
	.014	CQSSOA31G14				DRO
	.015	CUSSOA05MG15				JP5/SW30; 500 ppm
DSC022S	.016	06C180.01	1	✓		
	.017	02		1	✓	03/28/06
DSC023WL	.018	DSC023WL			✓	
	.019	C				
	.020	B				
	.021	06C193.01				
	.022	02				
	.023	03				
	.024	04				
	.025	06C199.01				

Instrument No: 50

INITIAL CALIBRATION REFERENCE

	ID	Date
Diesel	DSSOA31	01-31-06
Motor oil		
JP 5/SW30	USSOA05M	01-05-06

Standards

Name	ID 03/08/06	Conc. (mg/L)
CH_2Cl_2	~~4257~~ 42	pure
DCC DSL	SS3C-07-16-1	500
JP5/SW30 DCC	SS3C-07-16-2	500

Electronic Data Archival

Location	Date
☐ EZC_1_Diesel	
☐	

Comments:

Analyzed By: JO

Disposed on: 03/28/06 By: JO

EMAX LABORATORIES, INC., 1835 W. 205th St., Torrance, CA 90501

ANALYSIS RUN LOG FOR TPH

SOP ☑ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☐ Book # A50-023

Starting Date: 03.25.06 Time: 06:51 Ending Date: 03.28.06 Time: 11:01

ANALYTICAL BATCH CQ2503A1L12

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	TC27-026	IBSDCC608				
	.027	CQ2503A31C08				DSDD
	.028	CJSSDA05M1609				JP5/SW30, 500 PPM
DSLC023W	.029	06C204-01	1		/	
↓	.030	↓ 03	↓		↓	
	.031	CQ2503A3161D				DDDD
	.032	CJSSDA05M611				JP5/SW30, 500 PPM

Instrument No:		50
INITIAL CALIBRATION REFERENCE		
	ID	Date
Diesel	DSDA31	01.31.06
Motor oil		
JP 5/SW30	JSSDA05M	01/05/06

Standards		
Name	ID 03/28/06	Conc. (mg/L)
CH_2Cl_2	4532442	5ml
DCC DSL	553C-07-16-1	500
JP5/SW30 DCC	553C-07-16-2	500

Electronic Data Archival	
Location	Date
☐ EZC_1_Diesel	
☐	

Comments:

Analyzed By: JD

Disposed on: 03/28/06 By: JD

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR TPH

SOP ☑ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☐ Book # A50-021

Starting Date: 01-05-06 Time: 22:31 Ending Date: 01-06-06 Time: 07:37

ANALYTICAL BATCH 10/k

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	TA05-017	TEST				
	.018	IB30A233				
	.019	J330A05M01				10 PPM
	.020	02				20
	.021	03				50
	.022	04				500
	.023	05				1000
	.024	06				1500
	.025	07				3000
	.026	IJ330A05M01				500 JP5+5W30 ICV
	.027	02				1500
	.028	HC-CHAIN				
	.029	MeCl2				
	.030	MeCl2				

90 01.06.06

Instrument No:	50

INITIAL CALIBRATION REFERENCE

	ID	Date
Diesel		
Motor oil		
JP 5		
JP5+5W30	J330A05M1	01-05-06

Standards

Name	ID	Conc. (mg/L)
CH_2Cl_2	45209	pure
DCC		
JP5+5W30KAL	J33B-07-01-1	10-3000
JP5 ICV	J33B-06-35-3	50,000
5W30 ICV	J33B-06-69-3	50,000

Electronic Data Archival

Location	Date
☐ EZC_1_Diesel	
☐	

Comments:

Analyzed By: 90

Disposed on: 01.06.06 By: 90

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR TPH

SOP ☑ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☐ Book # A50-021

Starting Date: 01·31·06 Time: 14:20 Ending Date: 01·31·06 Time: 23:27

ANALYTICAL BATCH n/a

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	TA31-001	IB50A336				DSL (PDM) SURR
	.002	DS50A31 01				> bad injection
	.003	02				
	.004	03				50 40/10
	.005	04				100 60/15
	.006	05				500 100/25
	.007	06				1500 140/35
	.008	07				3000 220/35
	.009	01				5
	.010	02				10 20/5
	.011	IDS50A31 01				500 100/25 ; DSL ICV
	.012	02				1500 140/35
	.013	HC-CHAIN				
	.014	MeCl2				

01/31/06

Instrument No:	50

INITIAL CALIBRATION REFERENCE

	ID	Date
Diesel	DS50A31	01·31·06
Motor oil		
JP 5		

Standards

Name	ID	Conc. (mg/L)
CH_2Cl_2	45257	pure
DCC		
DSL 1GAL	SS3C-07-04-2	5·3000
+ SURR		20/5 · 220/35
DSL ICV	SS3C-07-03-3	5000

Electronic Data Archival

Location	Date
☐ EZC_1_Diesel	
☐	

Comments:

Analyzed By: JD

Disposed on: 02-01-06 By: JD

EXTRACTION LOGS

EXTRACTION LOG FOR TPH

SOP ☐ EMAX-3550 Rev. No.1 ☒ EMAX-3520 Rev. No.2 ☐ EMAX-LUFT E Rev. No.1 ☐ EMAX-3540 Rev. No.0 ☐ EMAX-3510Rev.No. 1

Matrix: WATER Start Date: 3/23/06 Time: 12:00 End Date: 3/24/06 Time: 6:00 Book # EDS-027

PREPARATION BATCH # DSC023 W

Sample Prep ID	Lab Sample ID	Sonicator Number	Sample Amount (g | ml)	Extract Volume (ml)	Silica Gel Clean-up	Notes
01	DSC023 - WB	N/A	1000	10		
02	- WL		1000	10		
03	- WC		1000	10		
04	06C193 - 01		1060	10		
05	- 02		1060	10		
06	- 03		1060	10		light yellow soln.
07	- 04		1060	10		
08	06C199 - 01		1050	10		brown soln.
09	06C204 - 01		1060	10		
10	- 03		1060	10		light brown soln.
11						
12		3/24/06 AB				
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						

Standards	ID	Amount Added (ml)
Surrogate	553C-07-04-1	1.0
LCS/MS	553C-07-04-3	1.0

Reagent	Lot# / ID
CH_2Cl_2	45342
Na_2SO4	45045
HCl	45105
Silica Sand	-

TUNING

Sonicator #	Reading
	N/A

Concentrator Water Bath Temp. (C)

1		
2		
3	35	35
4		
5	35	35
6		

Comments: Test thermometer = T_1

Prepared By: AB/JM Standard Added By: JM

Witnessed By: AB Checked By: ML

Extract Received by: JO 03.24.06 Extract Location: SED6-03

Disposal Date: Disposed By:

This page is checked during data review.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD M8015
ALCOHOLS BY GC

SDG#: 06C204

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C204

METHOD M8015
ALCOHOLS BY GC

Three (3) water samples were received on 03/23/06 for Alcohols by GC analysis by Method M8015 in accordance with USEPA SW846, 3rd edition.

1. Holding Time

Analytical holding time was met. Samples were not preserved except sample C204-02, which was adjusted to pH 7 with NaOH prior to analysis.

2. Calibration

Initial calibration was five points. %RSD was within 20%. Continuing calibrations were carried out within 10-sample interval. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

5. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
ALCOHOLS BY GC

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C204
Instrument ID : GCT043

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	MEC011WB	1	NA	03/23/0610:13	03/23/0610:13	DC23004A	DC23003A	MEC011W	Method Blank
LCS1W	MEC011WL	1	NA	03/23/0610:45	03/23/0610:45	DC23006A	DC23003A	MEC011W	Lab Control Sample (LCS)
LCD1W	MEC011WC	1	NA	03/23/0613:39	03/23/0613:39	DC23014A	DC23003A	MEC011W	LCS Duplicate
M-120	C204-01	1	NA	03/23/0616:49	03/23/0616:49	DC23025A	DC23024A	MEC011W	Field Sample
TRIP BLANK	C204-02	1	NA	03/23/0617:23	03/23/0617:23	DC23027A	DC23024A	MEC011W	Field Sample
M-118	C204-03	1	NA	03/23/0617:05	03/23/0617:05	DC23026A	DC23024A	MEC011W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD M8015
ALCOHOLS BY GC

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/23/06 16:49
Sample ID:	M-120	Date Analyzed:	03/23/06 16:49
Lab Samp ID:	C204-01	Dilution Factor:	1
Lab File ID:	DC23025A	Matrix :	WATER
Ext Btch ID:	MEC011W	% Moisture :	NA
Calib. Ref.:	DC23024A	Instrument ID :	GCT043

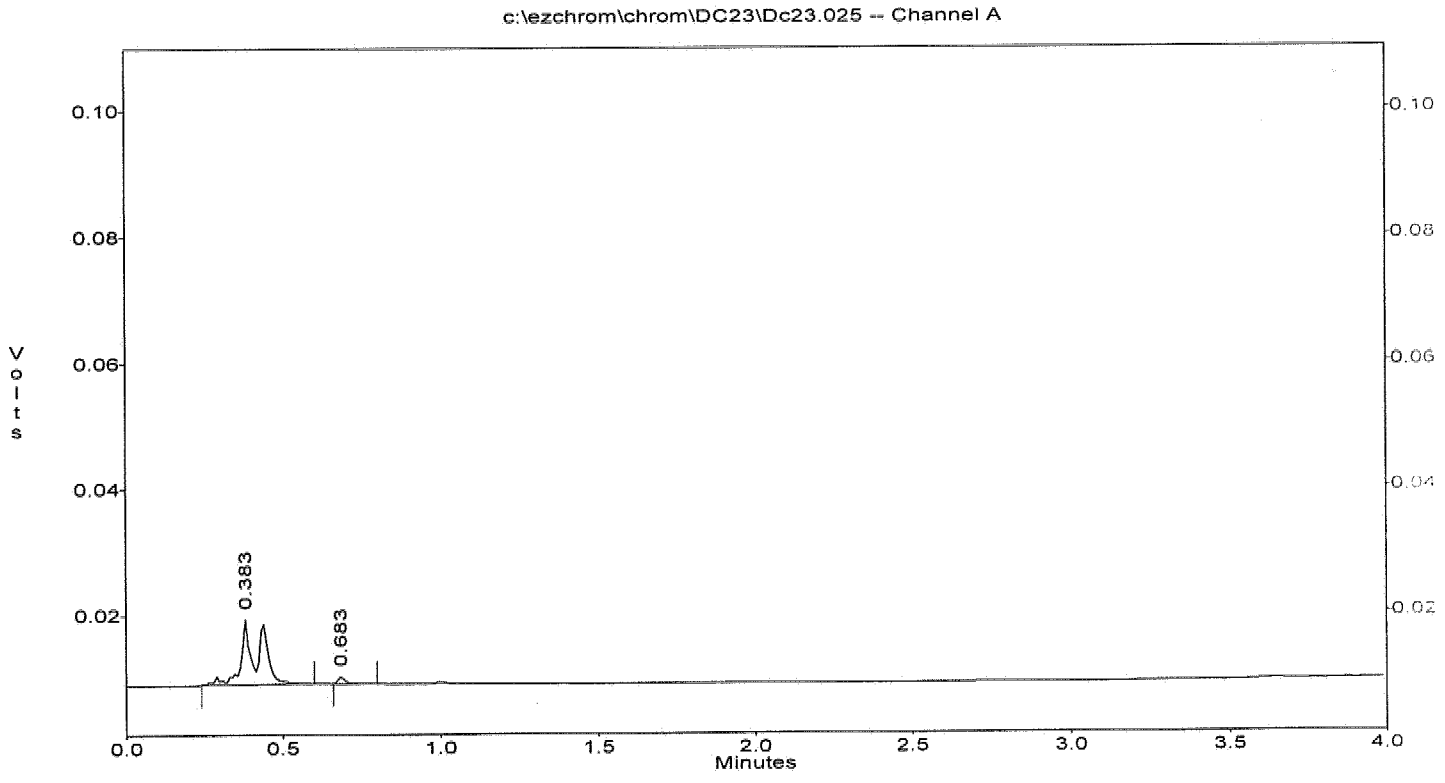
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC23\Dc23.025
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C204-01
Acquired : Mar 23, 2006 16:49:48
Printed : Mar 23, 2006 16:53:49
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	METHANOL	0.992	0	0.0	0.0
--	ETHANOL	1.192	0	0.0	0.0



METHOD M8015
ALCOHOLS BY GC

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/23/06 17:23
Sample ID	: TRIP BLANK	Date Analyzed:	03/23/06 17:23
Lab Samp ID	: C204-02	Dilution Factor:	1
Lab File ID	: DC23027A	Matrix :	WATER
Ext Btch ID	: MEC011W	% Moisture :	NA
Calib. Ref.	: DC23024A	Instrument ID :	GCT043

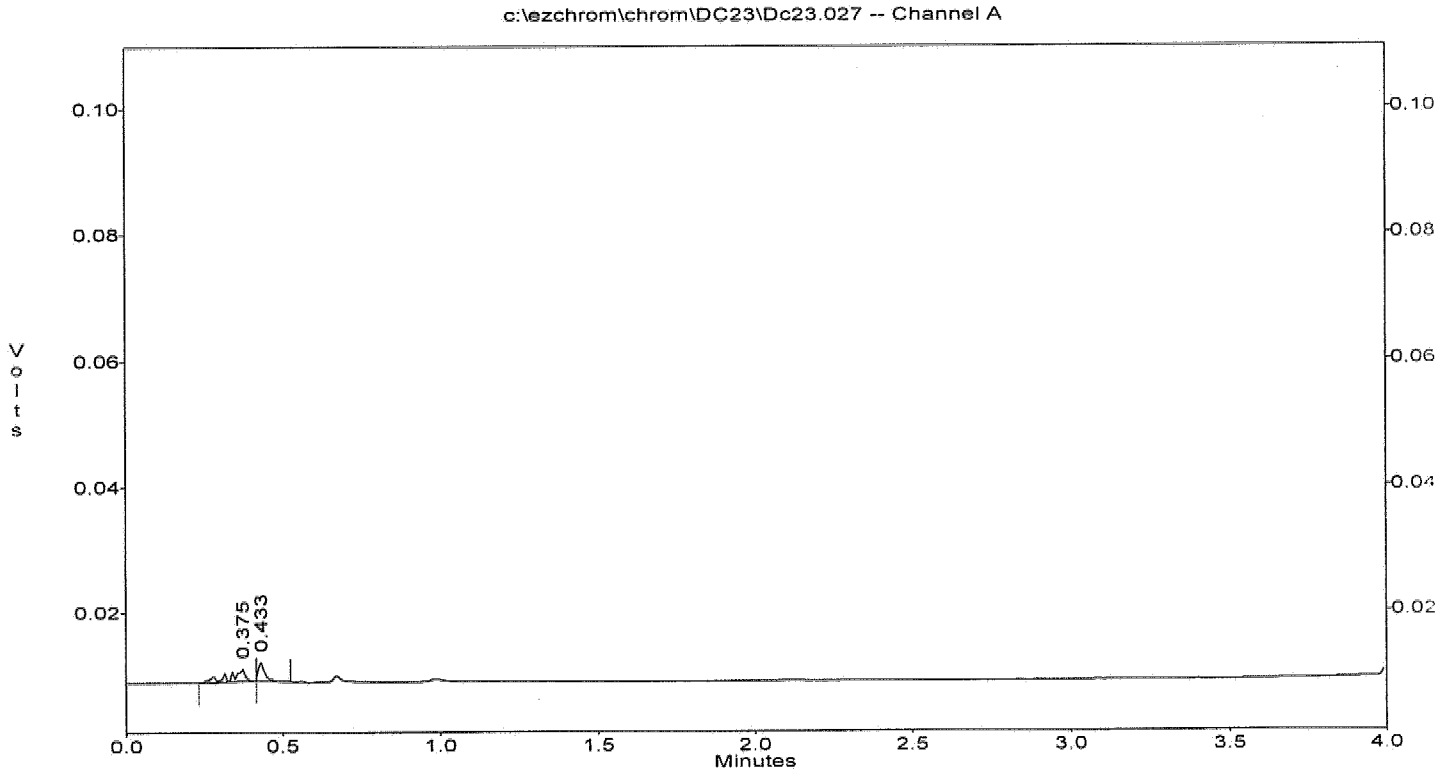
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC23\Dc23.027
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C204-02
Acquired : Mar 23, 2006 17:23:13
Printed : Mar 23, 2006 17:27:14
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	METHANOL	0.992	0	0.0	0.0
--	ETHANOL	1.192	0	0.0	0.0



METHOD M8015
ALCOHOLS BY GC

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/23/06 17:05
Sample ID:	M-118	Date Analyzed:	03/23/06 17:05
Lab Samp ID:	C204-03	Dilution Factor:	1
Lab File ID:	DC23026A	Matrix	: WATER
Ext Btch ID:	MEC011W	% Moisture	: NA
Calib. Ref.:	DC23024A	Instrument ID	: GCT043

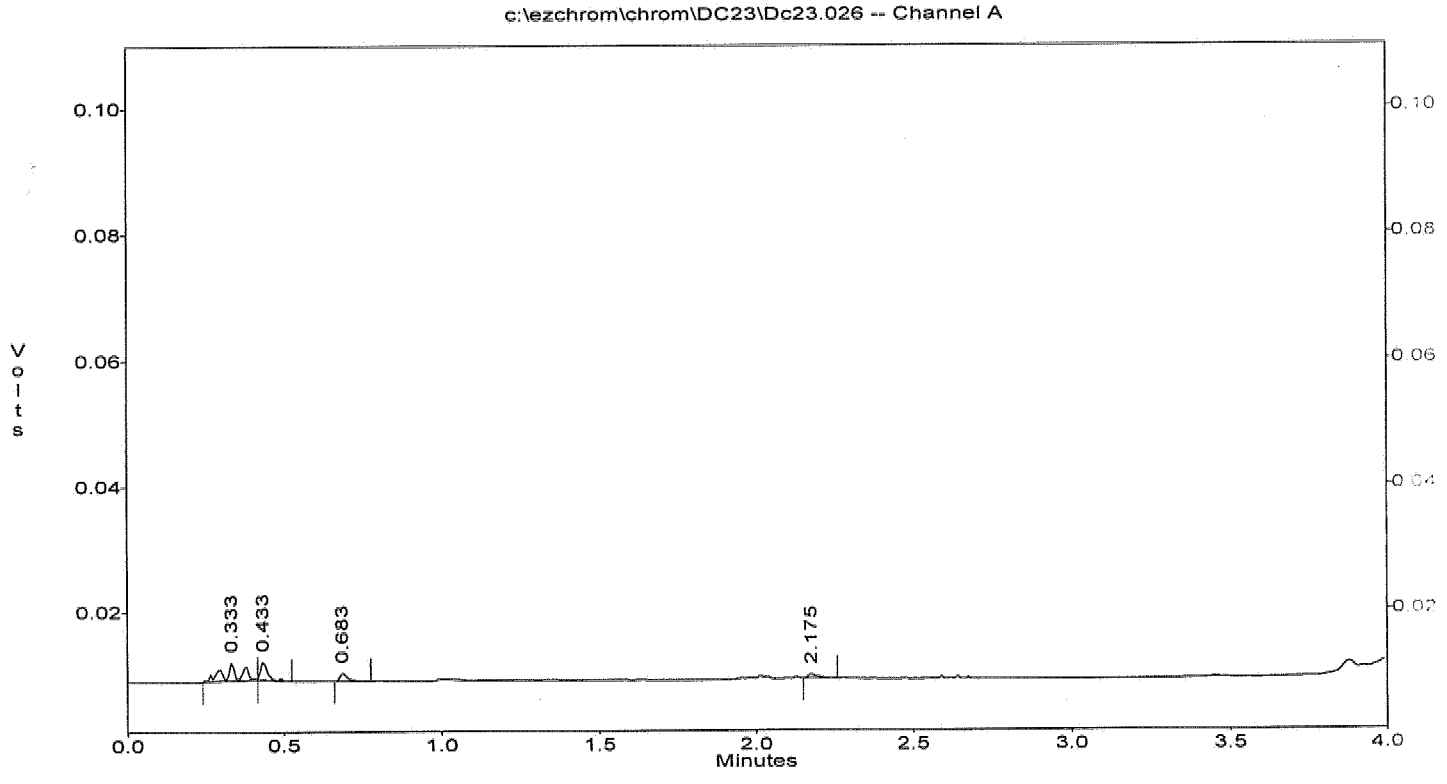
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC23\Dc23.026
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C204-03
Acquired : Mar 23, 2006 17:05:50
Printed : Mar 23, 2006 17:09:51
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	METHANOL	0.992	0	0.0	0.0
--	ETHANOL	1.192	0	0.0	0.0



QC SUMMARIES

METHOD M8015
ALCOHOLS BY GC

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/23/06 10:13
Sample ID:	MBLK1W	Date Analyzed:	03/23/06 10:13
Lab Samp ID:	MEC011WB	Dilution Factor:	1
Lab File ID:	DC23004A	Matrix :	WATER
Ext Btch ID:	MEC011W	% Moisture :	NA
Calib. Ref.:	DC23003A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: METHOD M8015

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	MEC011WB	MEC011WL	MEC011WC		
LAB FILE ID:	DC23004A	DC23006A	DC23014A		
DATE EXTRACTED:	03/23/0610:13	03/23/0610:45	03/23/0613:39	DATE COLLECTED:	NA
DATE ANALYZED:	03/23/0610:13	03/23/0610:45	03/23/0613:39	DATE RECEIVED:	03/23/06
PREP. BATCH:	MEC011W	MEC011W	MEC011W		
CALIB. REF:	DC23003A	DC23003A	DC23003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Methanol	ND	10	10.9	109	10	9.61	96	13	60-130	30
Ethanol	ND	10	9.23	92	10	9.84	98	6	60-130	30

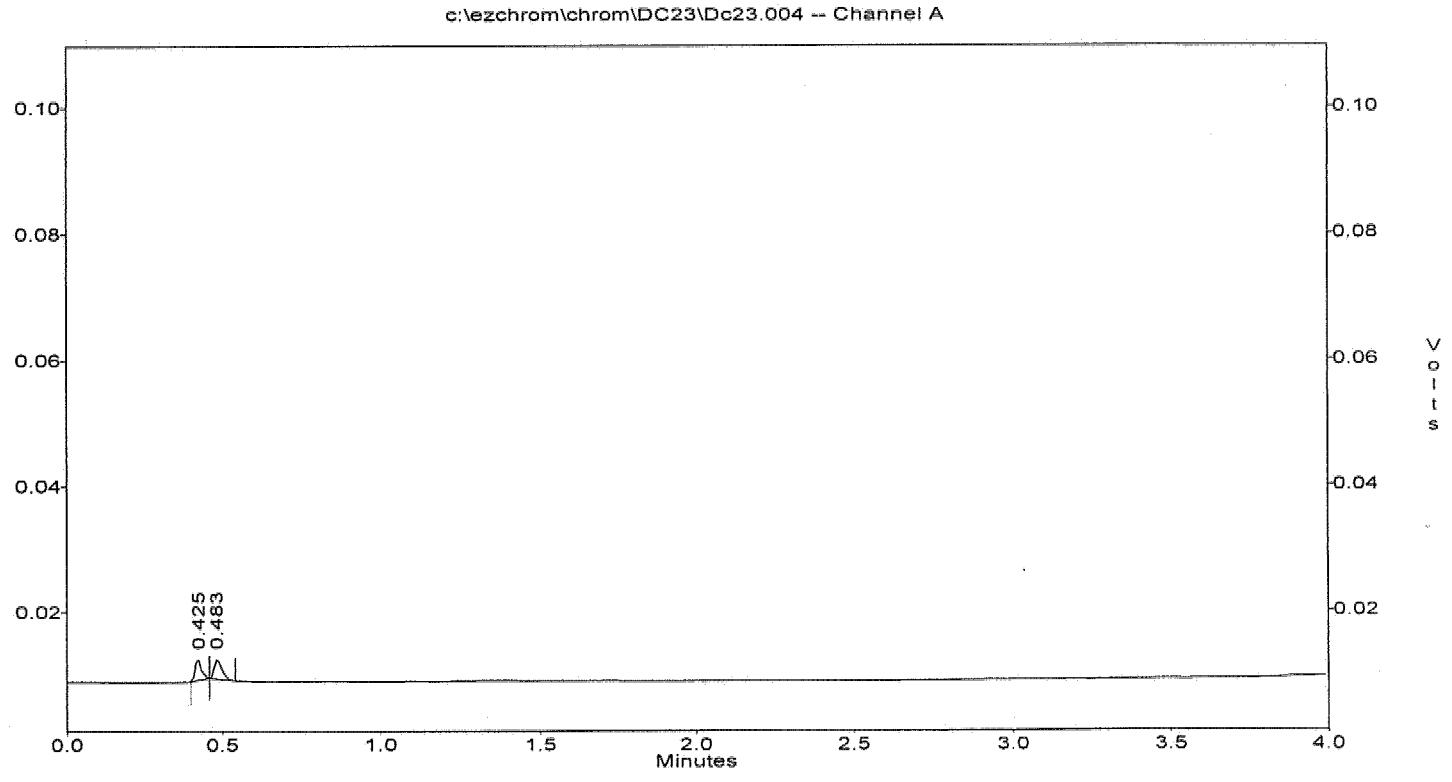
QC DATA

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC23\Dc23.004
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : MEC011WB
Acquired : Mar 23, 2006 10:13:39
Printed : Mar 23, 2006 10:17:40
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	METHANOL	1.000	0	0.0	0.0
--	ETHANOL	1.217	0	0.0	0.0

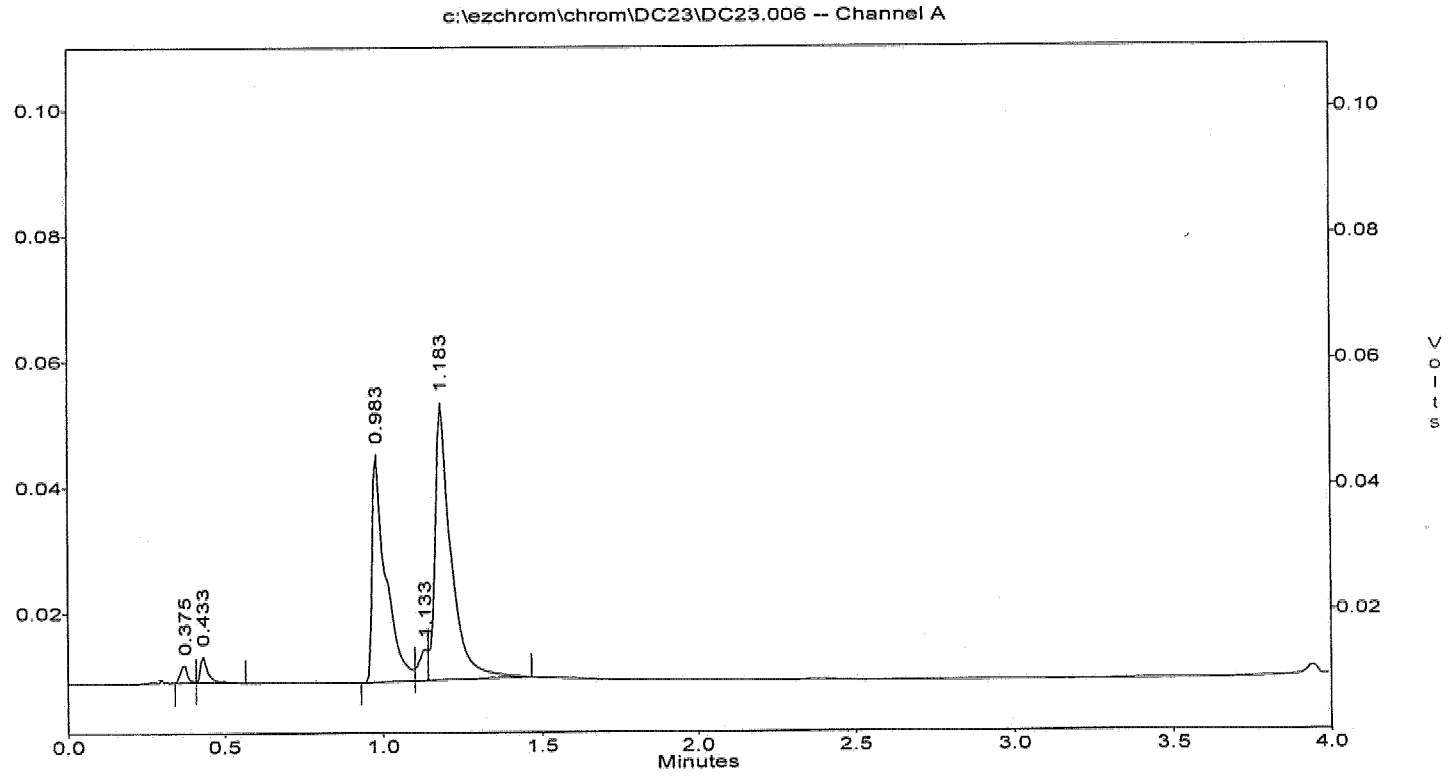


EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC23\DC23.006
Method : c:\ezchrom\methods\me43c06.met
Sample ID : MEC011WL
Acquired : Mar 23, 2006 10:45:58
Printed : Mar 23, 2006 11:07:20
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
3	METHANOL	0.983	106435	9735.5	10.9
5	ETHANOL	1.183	150557	16319.3	9.2

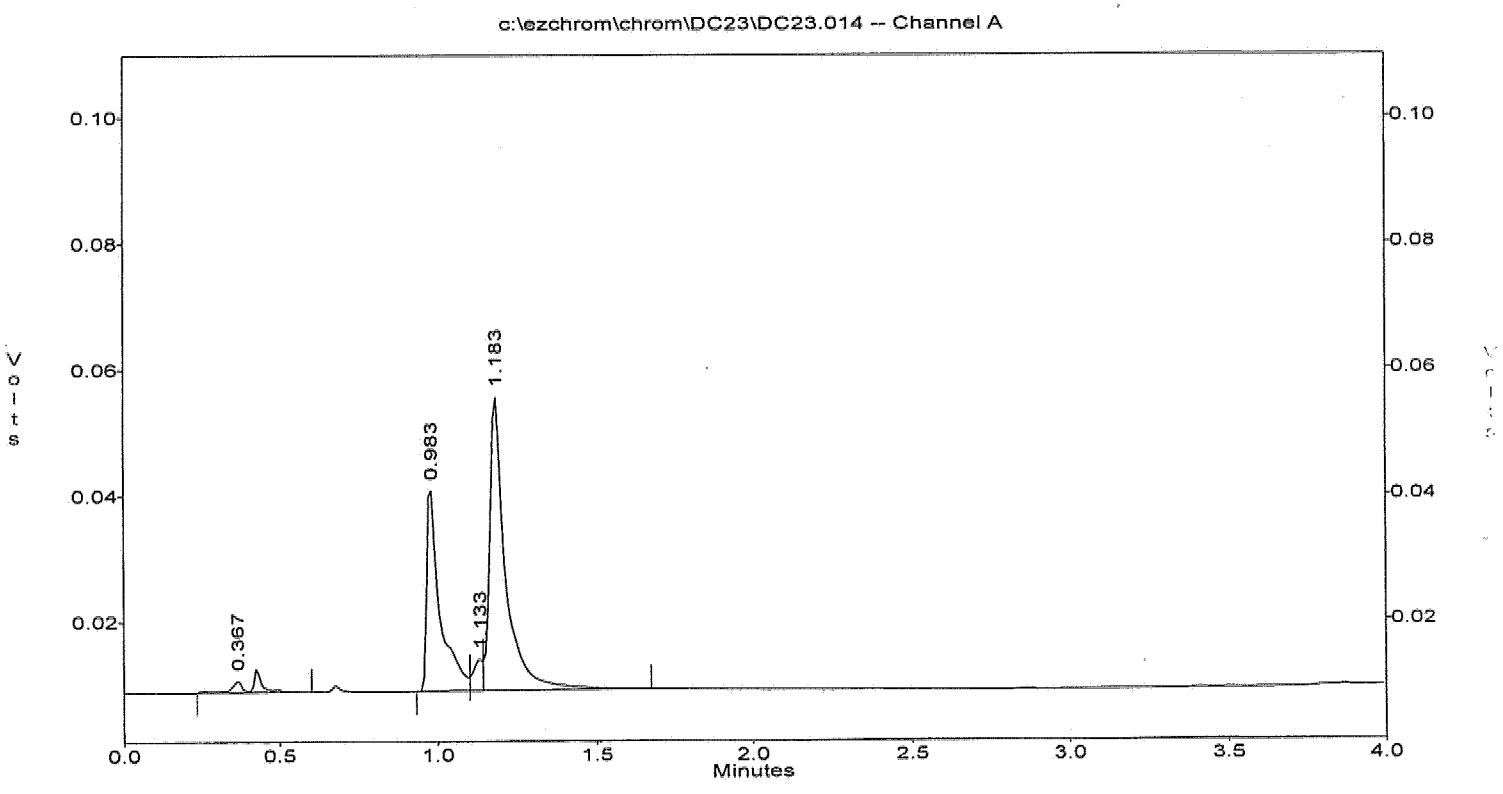


EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC23\DC23.014
Method : c:\ezchrom\methods\me43c06.met
Sample ID : MEC011WC
Acquired : Mar 23, 2006 13:39:27
Printed : Mar 23, 2006 13:43:46
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
2	METHANOL	0.983	93596	9735.5	9.6
4	ETHANOL	1.183	160639	16319.3	9.8



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCTO43
GC Column : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
LFID & Datetime: DC06002A 03/06/06 13:33 ✓
LFID & Datetime: DC06003A 03/06/06 13:53 ✓
LFID & Datetime: DC06004A 03/06/06 14:11 ✓
LFID & Datetime: DC06005A 03/06/06 14:29 ✓
LFID & Datetime: DC06006A 03/06/06 14:47 ✓
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	5.00X	10.00X	15.00X	20.00X	MEAN	%RSD	
METHANOL	1.00	9358.00	9968.80	9945.50	9619.93	9785.45	9735.54	2.6	✓
ETHANOL	1.00	14498	16802	17403	17481	15412	16319	8.0	✓

ME43C06.MET

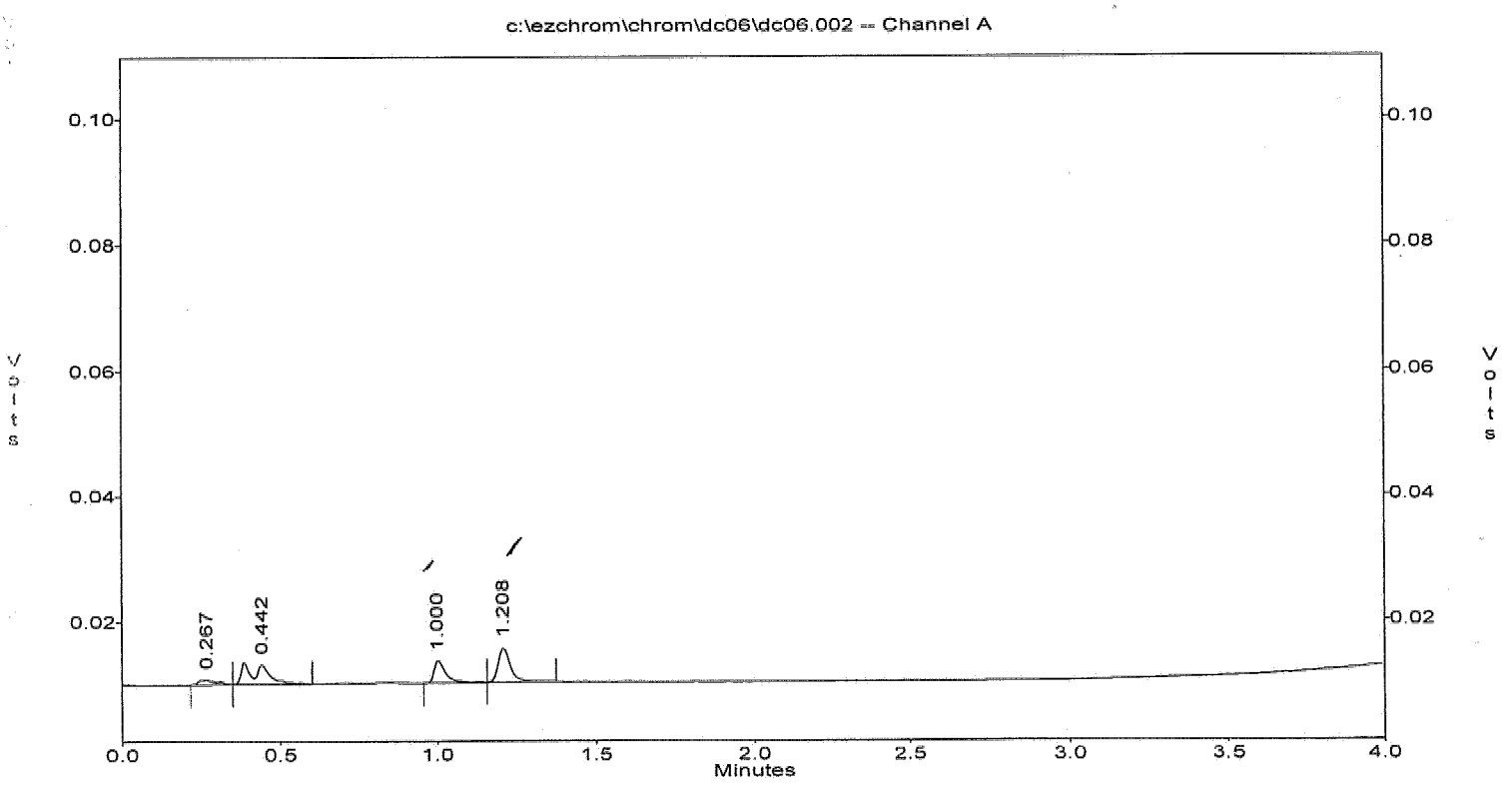
DA
03/08/06

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.002
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0601 1PPM
Acquired : Mar 06, 2006 13:33:28
Printed : Mar 06, 2006 15:11:10
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
3	METHANOL	1.000	9358	9735.5	1.0
4	ETHANOL	1.208	14498	16319.3	1.0



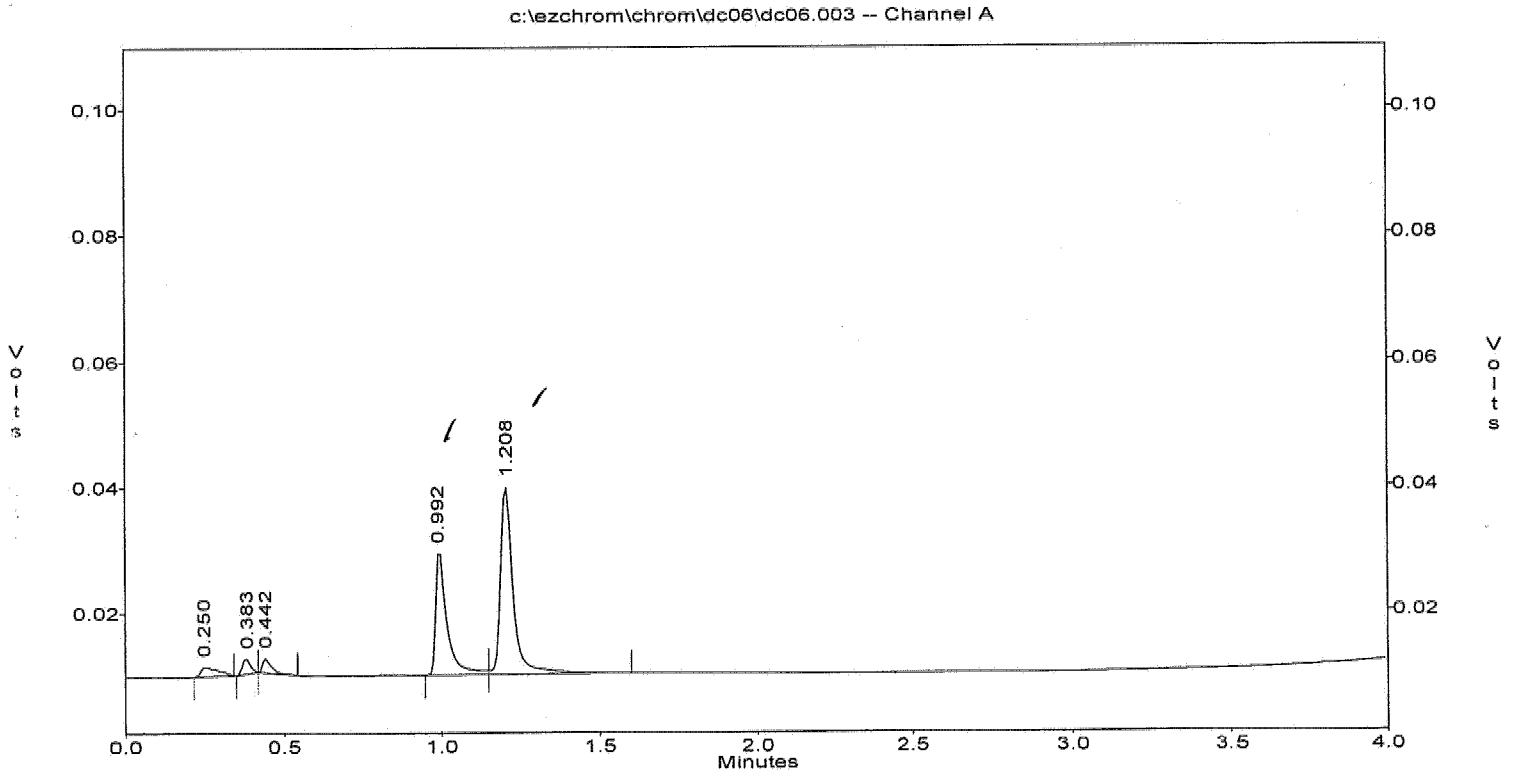
03/08/06
5078

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.003
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0602 5PPM
Acquired : Mar 06, 2006 13:53:42
Printed : Mar 06, 2006 15:11:14
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
4	METHANOL	0.992	49844	9735.5	5.0
5	ETHANOL	1.208	84012	16319.3	5.0



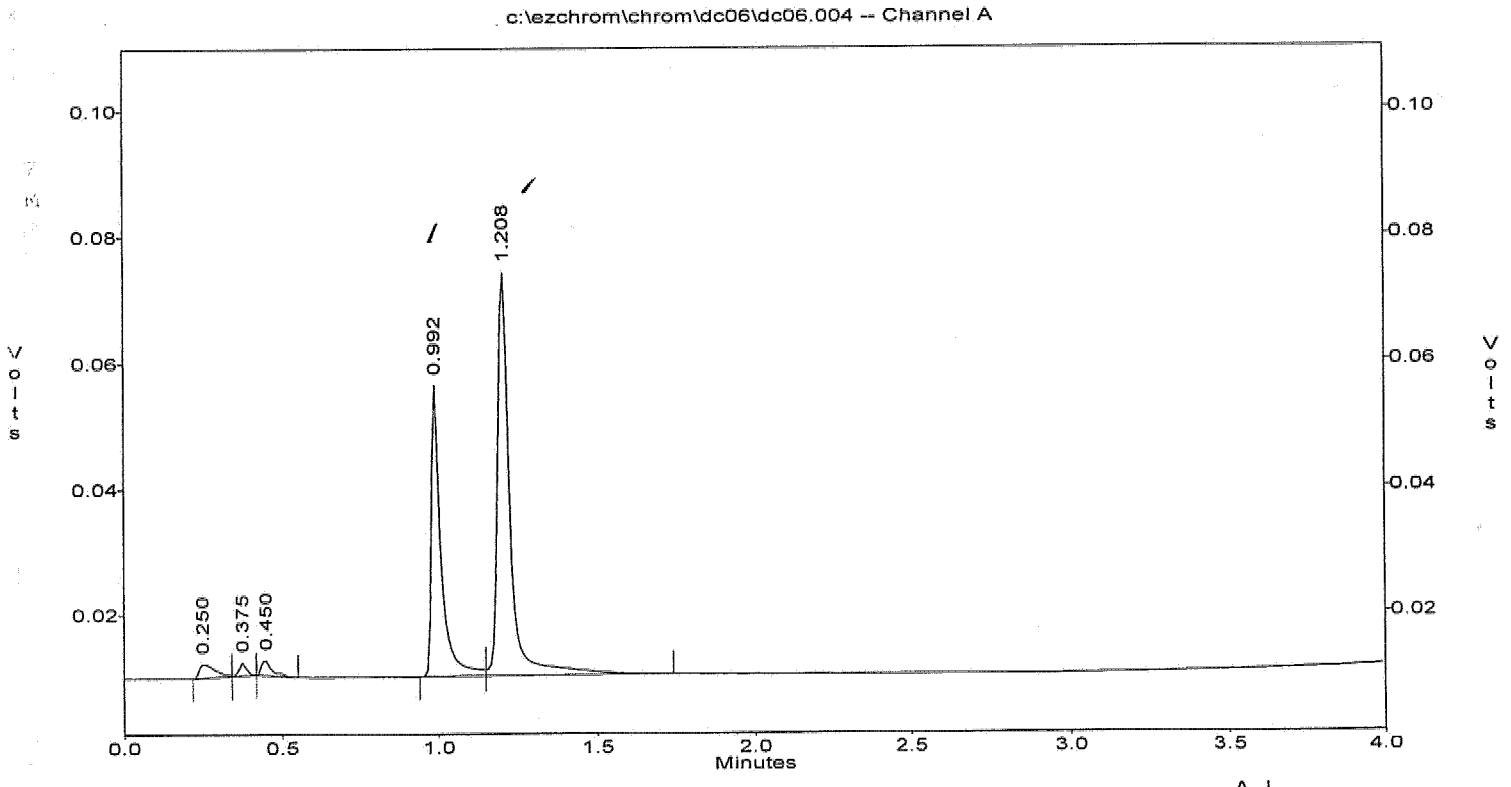
03/08/06
5079

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.004
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0603 10PPM
Acquired : Mar 06, 2006 14:11:39
Printed : Mar 06, 2006 15:11:18
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
4	METHANOL	0.992	99455	9735.5	10.0
5	ETHANOL	1.208	174031	16319.3	10.0



RA
03/08 10b

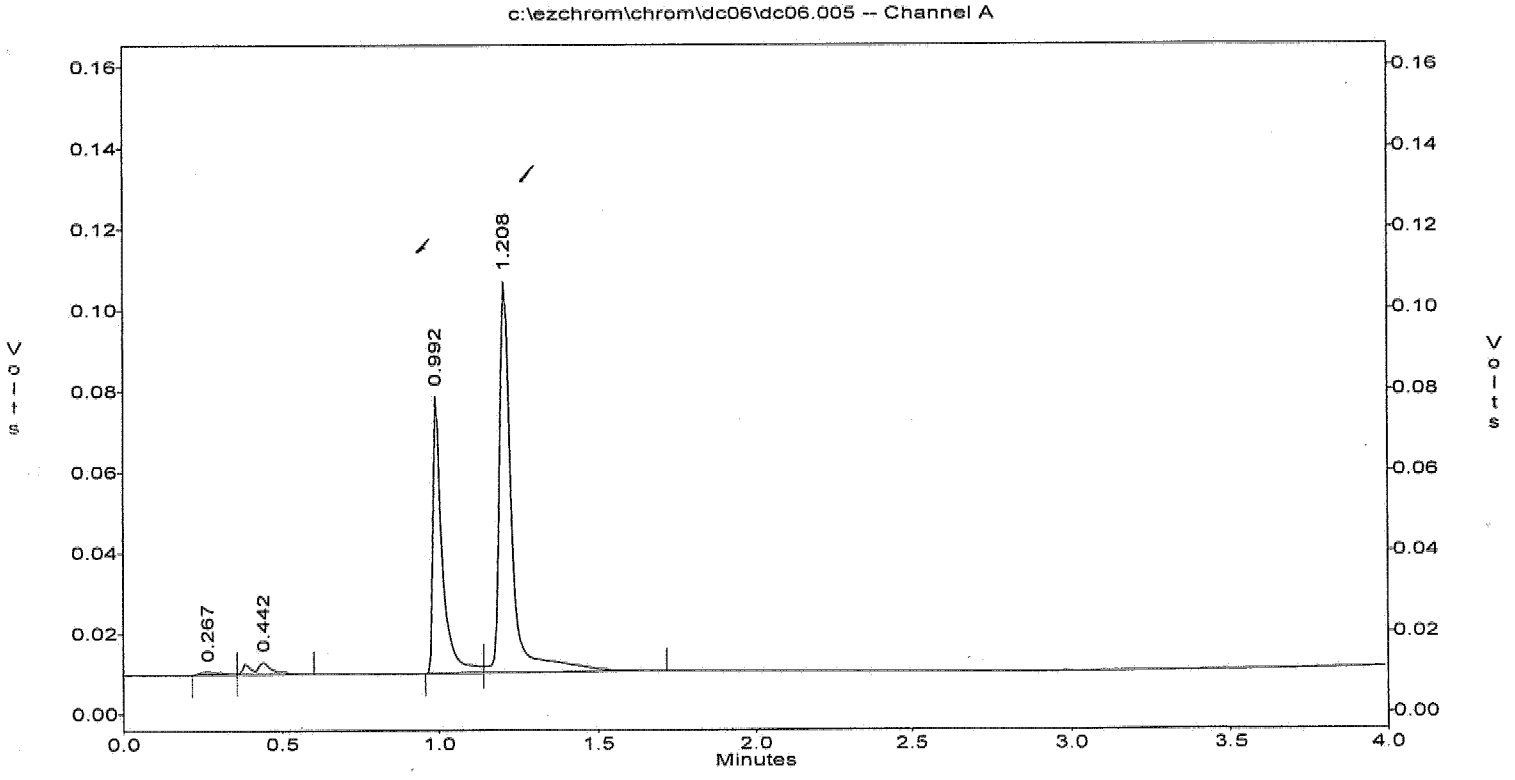
5080

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.005
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0604 15PPM
Acquired : Mar 06, 2006 14:29:43
Printed : Mar 06, 2006 15:11:28
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
3	METHANOL	0.992	144299	9735.5	15.0
4	ETHANOL	1.208	262213	16319.3	15.0



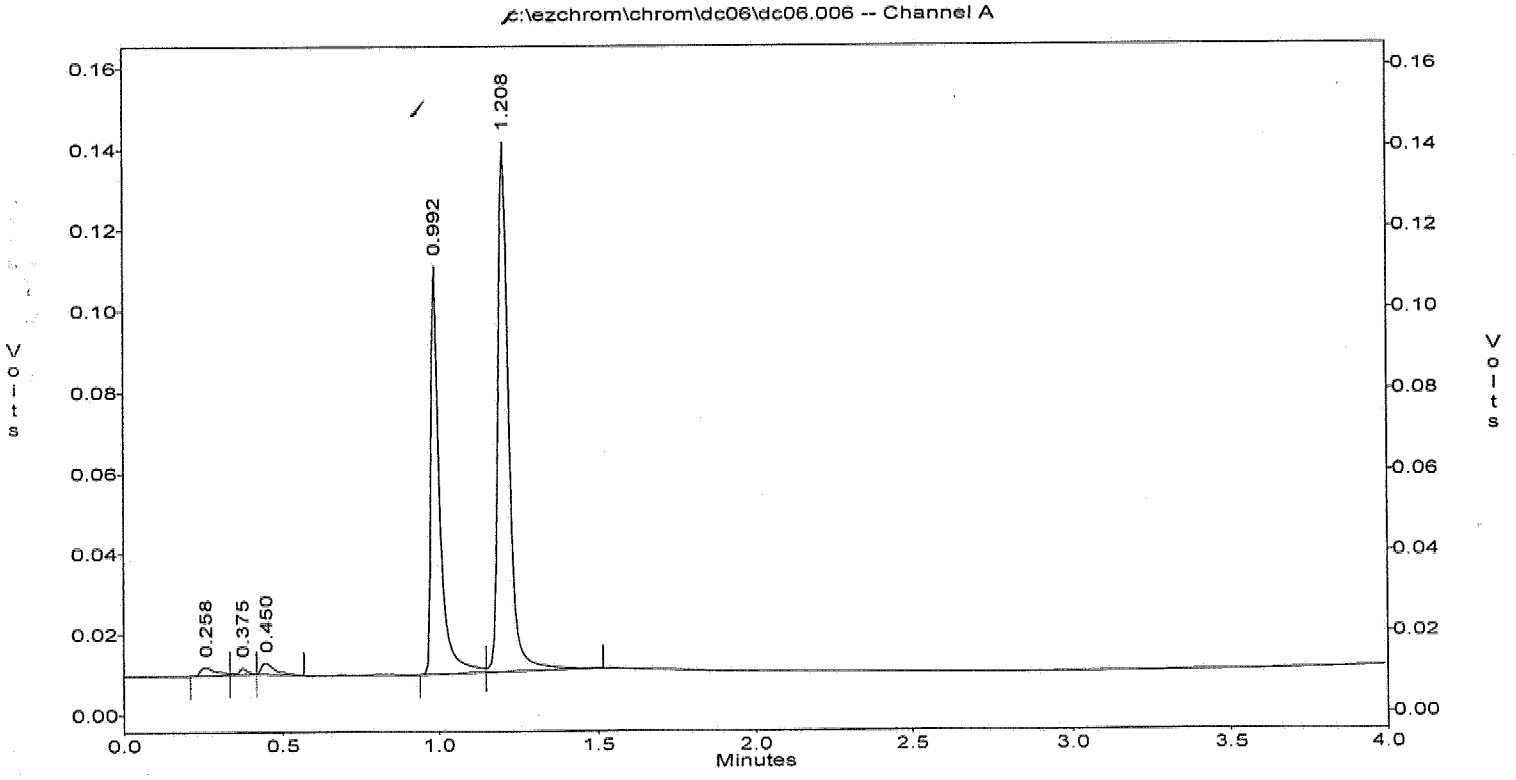
RA
03/08/06
5081

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.006
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0605 20PPM
Acquired : Mar 06, 2006 14:47:41
Printed : Mar 06, 2006 15:11:33
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
4	METHANOL	0.992	195709	9735.5	20.0
5	ETHANOL	1.208	308245	16319.3	20.0



03/08/06
5082

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO43
GC Column : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
Conc Cont LFID & Datetime: DC06007A 03/06/2006 15:04
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
METHANOL	1.008	0.982	1.034	10.0	9735.5	103117	10.59	6		15
ETHANOL	1.225	1.196	1.254	10.0	16319.3	164274	10.07	1		15

ME43C06.MET

03/08/06

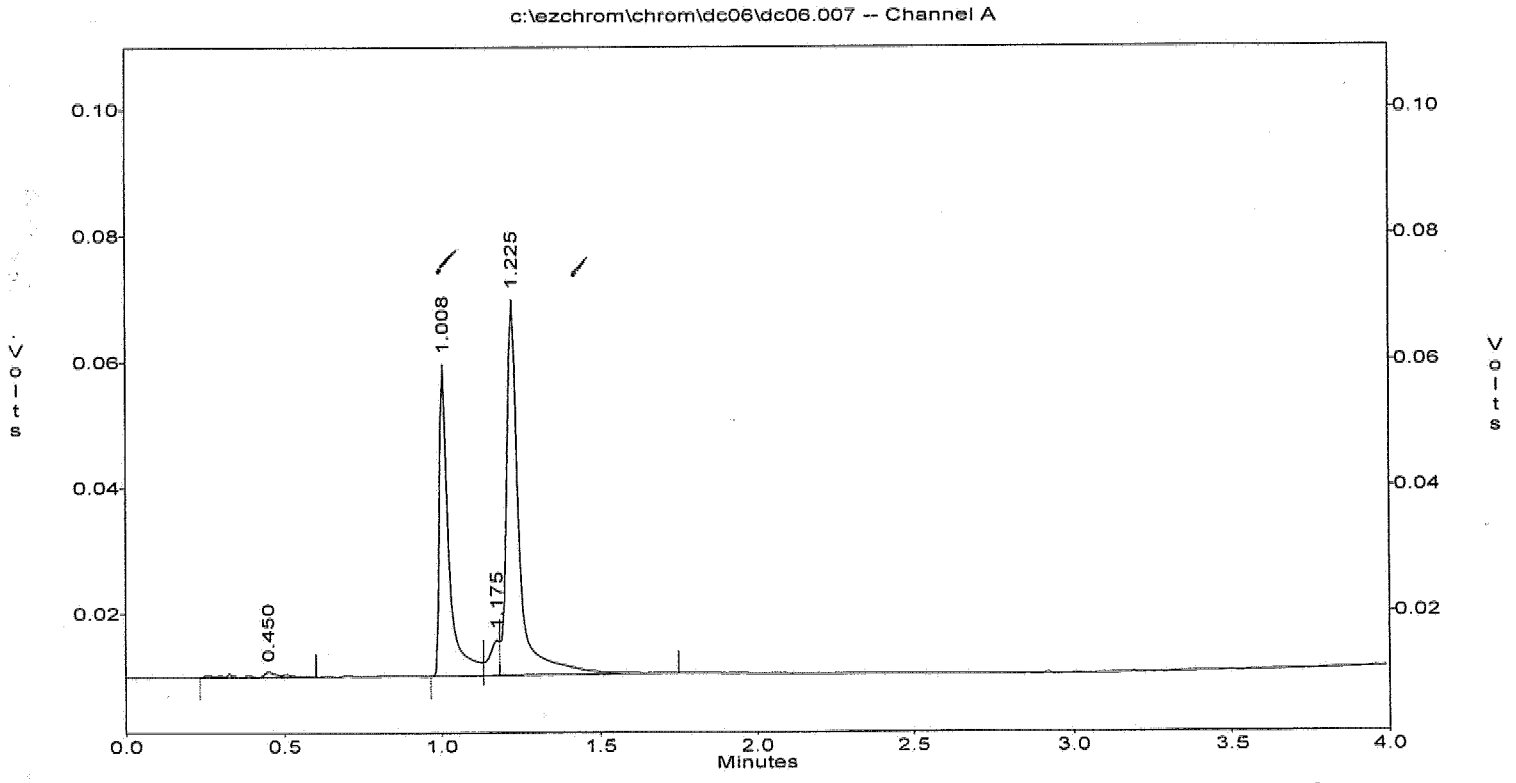
5084

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.007
Method : c:\ezchrom\methods\me43c06.met
Sample ID : IME43C0601 10PPM
Acquired : Mar 06, 2006 15:04:40
Printed : Mar 06, 2006 15:11:45
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
2	METHANOL	1.008	103117	9735.5	10.6
4	ETHANOL	1.225	164274	16319.3	10.1



03/08 DC

5085

DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO43
GC Column : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
Conc Cont LFID & Datetime: DC23003A 03/23/2006 09:56 ✓
CONC UNIT : ppm

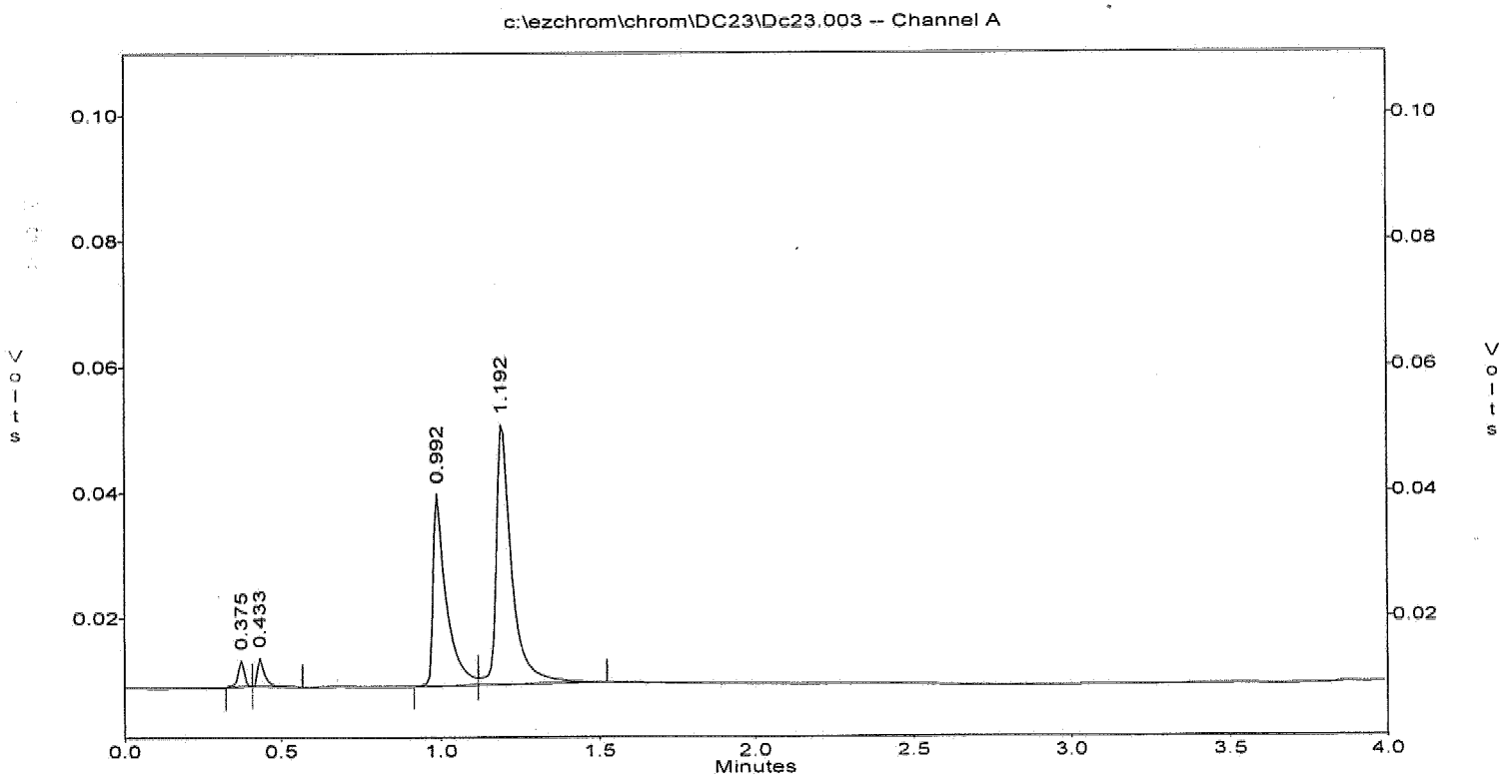
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
METHANOL	0.992	0.966	1.018	10.0	9735.5	87103	8.95	-11		15
ETHANOL	1.192	1.163	1.221	10.0	16319.3	140435	8.60	-14		15

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC23\Dc23.003
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : CME43C06049 10PPM
Acquired : Mar 23, 2006 09:56:19
Printed : Mar 23, 2006 10:00:20
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
3	METHANOL	0.992	87103	9735.5	8.9
4	ETHANOL	1.192	140435	16319.3	8.6



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO43
GC Columm : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
Conc Cont LFID & Datetime: DC23016A 03/23/2006 14:12
CONC UNIT : ppm

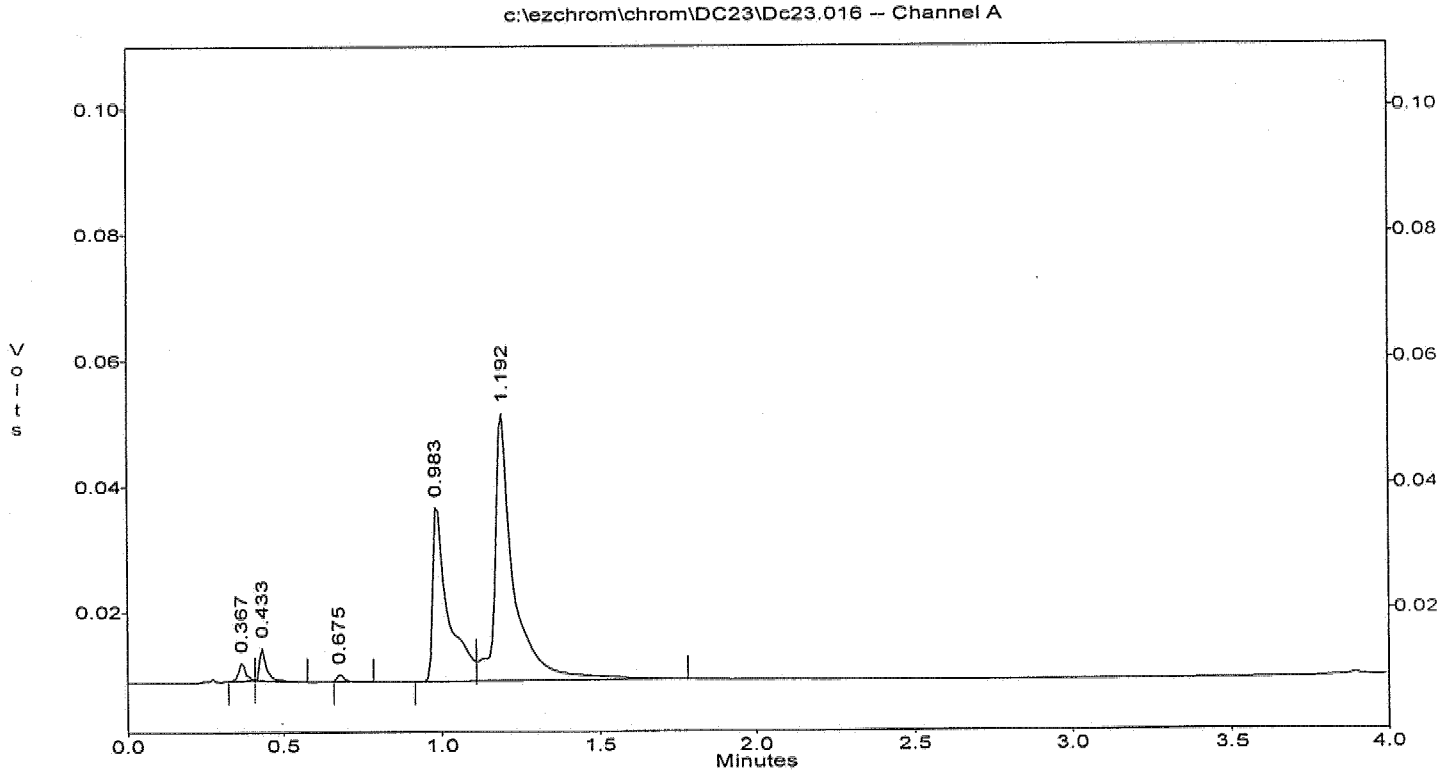
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
METHANOL	0.983	0.957	1.009	10.0	9735.5	92979	9.55	-4		15
ETHANOL	1.192	1.163	1.221	10.0	16319.3	176955	10.84	8		15

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC23\Dc23.016
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : CME43C06050 10PPM
Acquired : Mar 23, 2006 14:12:41
Printed : Mar 23, 2006 14:16:42
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	0.983	92979	9735.5	9.6
5	ETHANOL	1.192	176955	16319.3	10.8



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCTO43
GC Column : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
Conc Cont LFID & Datetime: DC23024A 03/23/2006 16:32
CONC UNIT : ppm

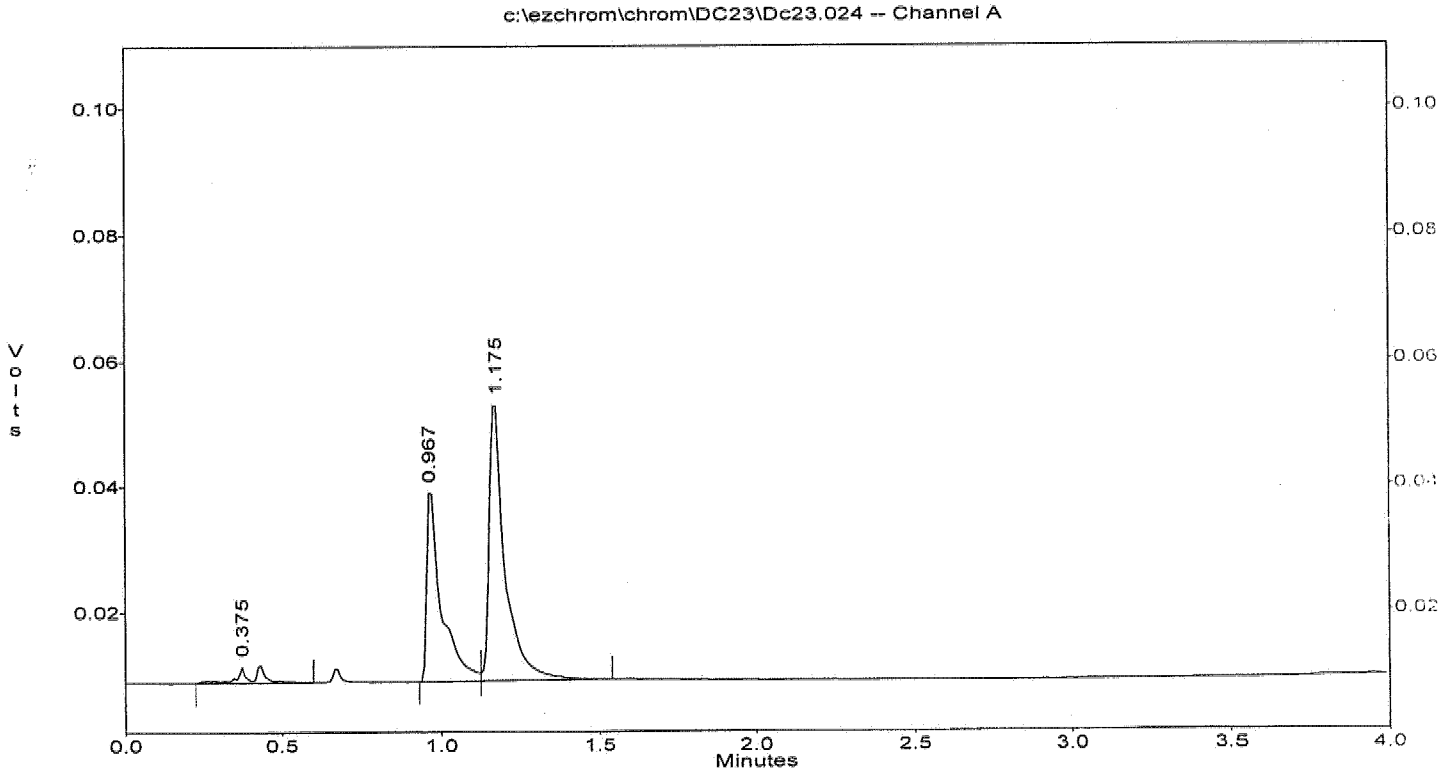
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
METHANOL	0.967	0.941	0.993	10.0	9735.5	95383	9.80	-2		15
ETHANOL	1.175	1.146	1.204	10.0	16319.3	151149	9.26	-7		15

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC23\Dc23.024
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : CME43C06051 10PPM
Acquired : Mar 23, 2006 16:32:43
Printed : Mar 23, 2006 16:36:44
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
2	METHANOL	0.967	95383	9735.5	9.8
3	ETHANOL	1.175	151149	16319.3	9.3



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
Instrument ID : GCT043
GC Column : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
Conc Cont LFID & Datetime: DC23031A 03/23/2006 18:30
CONC UNIT : ppm

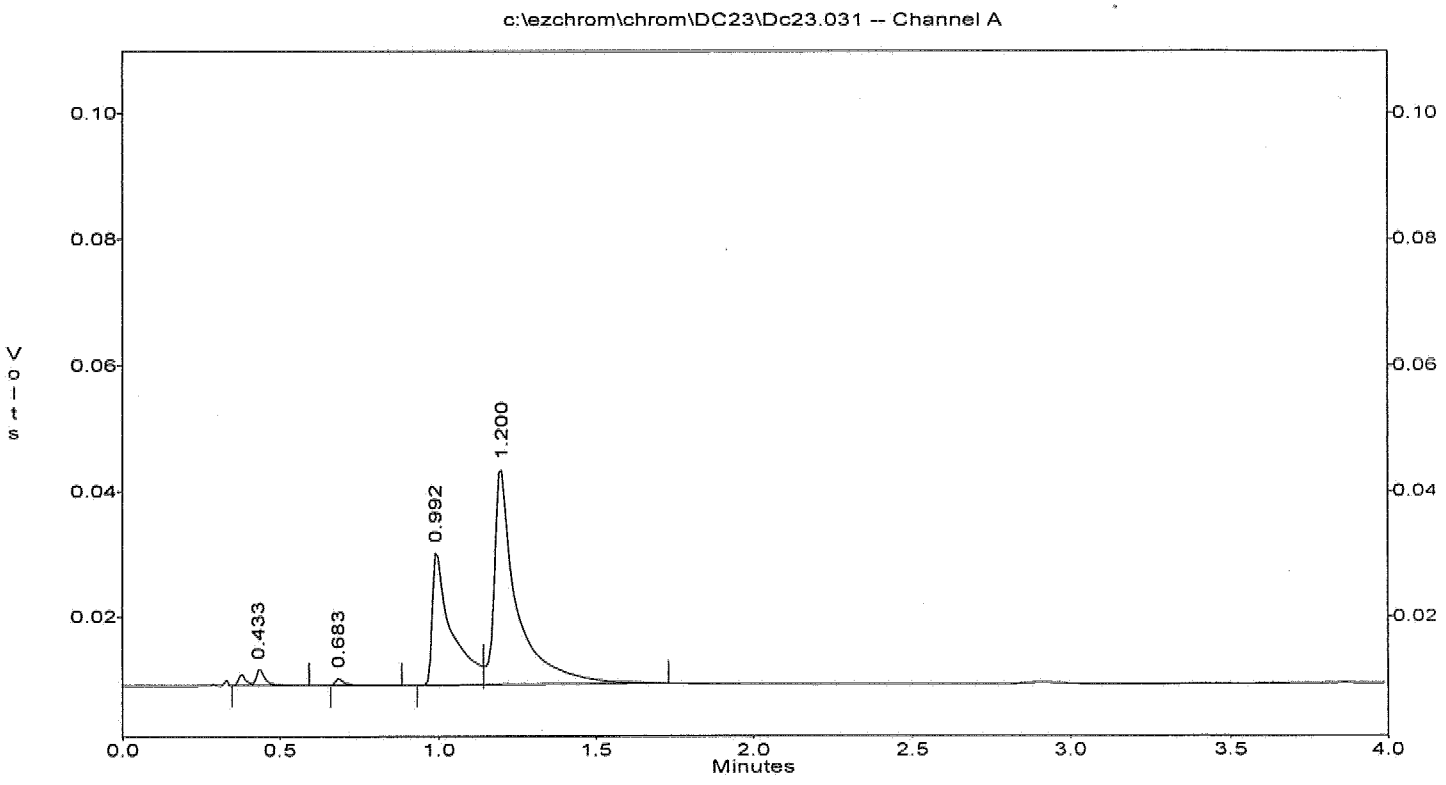
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
METHANOL	0.992	0.966	1.018	10.0	9735.5	86901	8.93	-11		15
ETHANOL	1.200	1.171	1.229	10.0	16319.3	170318	10.44	4		15

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC23\Dc23.031
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : CME43C06052 10PPM
Acquired : Mar 23, 2006 18:30:56
Printed : Mar 23, 2006 18:34:57
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
3	METHANOL	0.992	86901	9735.5	8.9
4	ETHANOL	1.200	170318	16319.3	10.4



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP ☐ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☑ Alcohols Book # A43-012

Starting Date: 3/6/06 Time: 1313 Ending Date: 3/6/06 Time: 1714

ANALYTICAL BATCH DC06.C07

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	DC06.001	IB43C012				
	2	ME43C0601				~~10ppm~~ 1ppm xp 3/6/06
	3	2				5
	4	3				10
	5	4				15
	6	5				20
	7	IME43C0601				10
MEC002W	8	MEC002C03	1		✓	
	9	L				
	10	C				
	11	MOLVER-01				1ppm
	12	02				0.5ppm
	13	06C032-04				
	14	04D				
	15	CME43C06012				Bad inj.
	16	NO Injection				
	17	CME43C06012				10ppm

xp 3/6/06

Instrument No:		43
INITIAL CALIBRATION REFERENCE		
	ID	Date
Diesel		
Motor oil		
JP 5		
Alcohols	ME43C06	3/6/06

Standards		
Name	ID	Conc. (mg/L)
CH_2Cl_2	—	—
~~Dec~~ xp 3/6/06 /Ical	SS3C-07-11-1	1-200ppm
~~LCS~~ /ICV	SS3C-07-11-2	10ppm
Dec	SS3C-07-10-2	100
LCS	SS3C-07-10-3	↓

Electronic Data Archival	
Location	Date
☐ EZC_2_Diesel	
☐	

Comments:

Analyzed By: xp

Disposed on: 3/6/06 By: xp

This page is checked during the data review process.

ANALYSIS RUN LOG FOR TPH

SOP ☐ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☑ Methanol / Ethanol. Book # A43-012

Starting Date: 3/23/06 Time: 09:19 Ending Date: 3/23/06 Time: 16:49

ANALYTICAL BATCH DCD 3003

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	DC23.001	IB43C049				
	2	TEST				
	3	CME43C06049	10		•	10ppm
MEC011W	4	MEC011WB	1		✓	
	5	L				Bad inj.
	6	L				10ppm (10x)
	7	C				Bad inj.
	8	06C187-01				pH7
	9	02				
	10	03				Not evaluated
	11	04				
	12	06C193-01				Not evaluated pH7
	13	TEST				
MEC011W	14	MEC011WC	1		✓	10ppm (10x)
	15	CME43C06050	10			Bad inj.
	16	CME43C06050				10ppm
MEC011W	17	06C193-01R	1			pH7
	18	02				
	19	03				
	20	04				
	21	06C199-01				
	22	06C193-05				pH<2 7 adjused to pH7 - Not evaluated
	23	06C081-12				of 50% NaOH
	24	CME43C06051	10			10ppm
MEC011W MEC009 XP 3/23/06	25	06C204-01	1		✓	

Instrument No:		43
INITIAL CALIBRATION REFERENCE		
	ID	Date
Diesel		
Motor oil		
JP 5		
Alcohols	ME43C06	3/6/06

Standards		
Name	ID	Conc. (mg/L)
CH_2Cl_2	—	—
DCC	SS3C-07-~~12~~ 10-2 ~~3~~ XP	100
LCS	SS3C-07-~~08~~ 10-3 ~~1~~ 3/24/06	"
H_2O	Organic free	—
NaOH 50%	SW7A-06-255	50%

Electronic Data Archival	
Location	Date
☐ EZC_2_Diesel	
☐	

Comments:

Analyzed By: XP

Disposed on: 3/24/06 By: XP

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MAXXAM LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR TPH

SOP ☐ **EMAX-M8015D Revision No. 3** ☐ **EMAX-LUFTE Revision No. 3** ☑ Ethanol / Methanol **Book # A43-012**

Starting Date: 3/23/06 **Time:** 17:05 **Ending Date:** 3/23/06 **Time:** 18:30

ANALYTICAL BATCH DC23C03

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
MEC011W	DC23.026	06C204-03	1		✓	pH 7
↓	27	↓ 02	↓		↓	pH<2 - adjusted to pH 7 w/ NaOH (50%)
↓	28	06C187-03R	↓		↓	pH 7 ✓
	~~29~~	~~CME43C06052~~ XP 3/23/06	~~10~~			~~10ppm~~ Blank
MEC011W	29	06C193-05R	1		✓	pH<2 - adjusted to pH 7 w/ NaOH (50%) ✓
	30	TEST				
	31	CME43C06052	10		✓	10ppm
						XP 3/23/06

Instrument No:		43
INITIAL CALIBRATION REFERENCE		
	ID	Date
Diesel		
Motor oil		
JP 5		
Alcohols	ME43C06	3/6/06

Standards		
Name	ID	Conc. (mg/L)
CH_2Cl_2	—	—
DCC	553C-07-~~12-3~~ 10-3 XP	100
LCS	553C-07-~~08-3~~ 10-3 3/24/06	↓
H_2O	organic free	—
NaOH	SW7A-06-255	50%

Electronic Data Archival	
Location	Date
☐ EZC_2_Diesel	
☐	

Comments:

Analyzed By: XP

Disposed on: 3/24/06 By: XP

This page is checked during the data review process.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD M8015
ETHYLENE GLYCOL

SDG#: 06C204

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C204

METHOD M8015
ETHYLENE GLYCOL

Three (3) water samples were received on 03/23/06 for Ethylene Glycol analysis by Method M8015 in accordance with USEPA SW846, 3rd edition.

1. Holding Time

Analytical holding time was met. Samples C204-01 and -03 were not preserved. Sample C204-02 had pH 2 and was adjusted to pH 7 with NaOH prior to analysis.

2. Calibration

Initial calibration was five points. %RSD was within 20%. Continuing calibrations were carried out within 10-sample interval. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

5. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
ETHYLENE GLYCOL

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C204
Instrument ID : GCT043

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	EGC012WB	1	NA	03/24/0610:44	03/24/0610:44	DC24003A	DC24002A	EGC012W	Method Blank
LCS1W	EGC012WL	1	NA	03/24/0610:55	03/24/0610:55	DC24004A	DC24002A	EGC012W	Lab Control Sample (LCS)
LCD1W	EGC012WC	1	NA	03/24/0611:09	03/24/0611:09	DC24005A	DC24002A	EGC012W	LCS Duplicate
M-120	C204-01	1	NA	03/24/0613:07	03/24/0613:07	DC24011A	DC24002A	EGC012W	Field Sample
TRIP BLANK	C204-02	1	NA	03/24/0614:09	03/24/0614:09	DC24015A	DC24013A	EGC012W	Field Sample
M-118	C204-03	1	NA	03/24/0613:19	03/24/0613:19	DC24012A	DC24002A	EGC012W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD M8015
ETHYLENE GLYCOL

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/24/06 13:07
Sample ID:	M-120	Date Analyzed:	03/24/06 13:07
Lab Samp ID:	C204-01	Dilution Factor:	1
Lab File ID:	DC24011A	Matrix :	WATER
Ext Btch ID:	EGC012W	% Moisture :	NA
Calib. Ref.:	DC24002A	Instrument ID :	GCT043

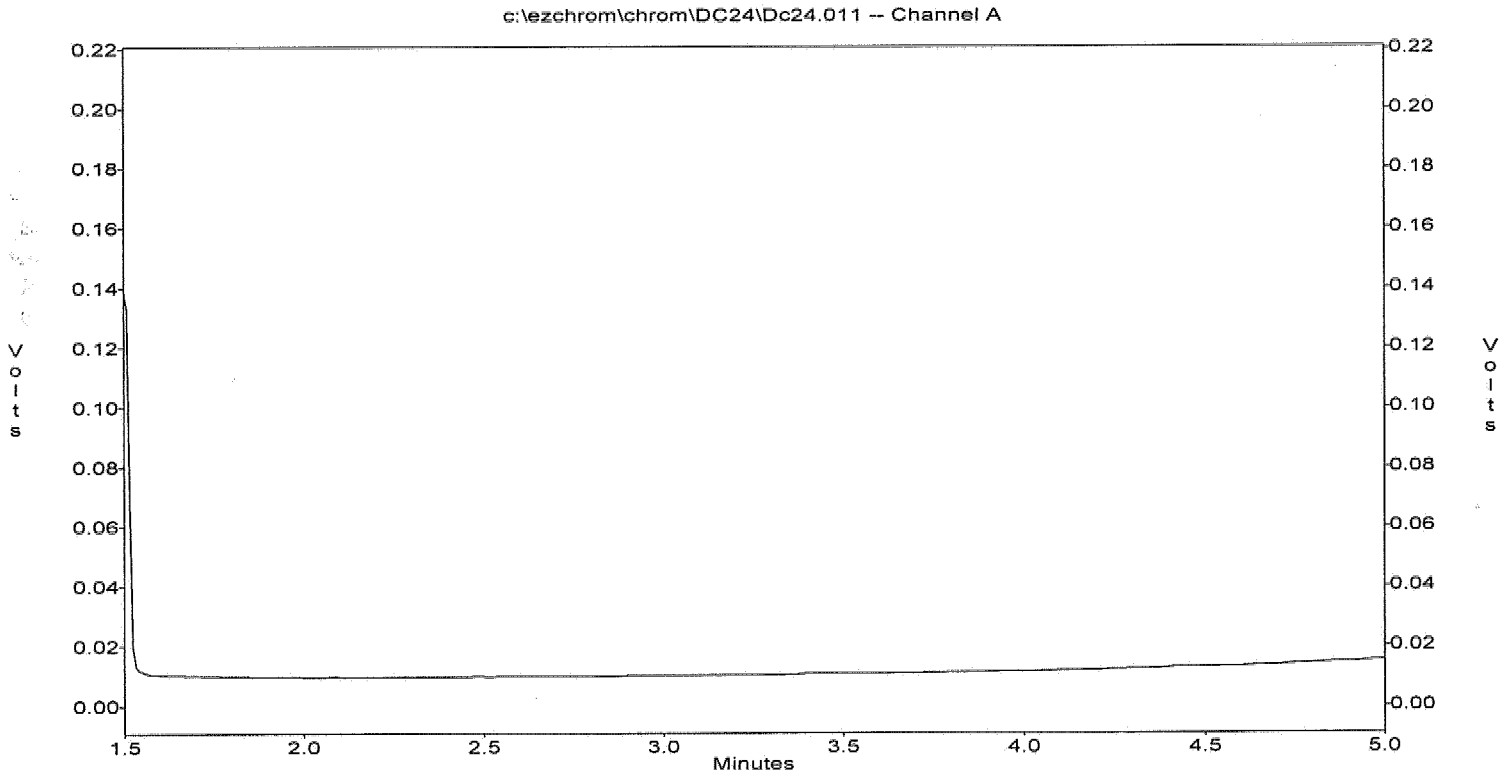
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
ETHYLENE GLYCOL	ND	10	5

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.011
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : 06C204-01
Acquired : Mar 24, 2006 13:07:28
Printed : Mar 24, 2006 13:14:29
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0



METHOD M8015
ETHYLENE GLYCOL

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/24/06 14:09
Sample ID:	TRIP BLANK	Date Analyzed:	03/24/06 14:09
Lab Samp ID:	C204-02	Dilution Factor:	1
Lab File ID:	DC24015A	Matrix :	WATER
Ext Btch ID:	EGC012W	% Moisture :	NA
Calib. Ref.:	DC24013A	Instrument ID :	GCT043

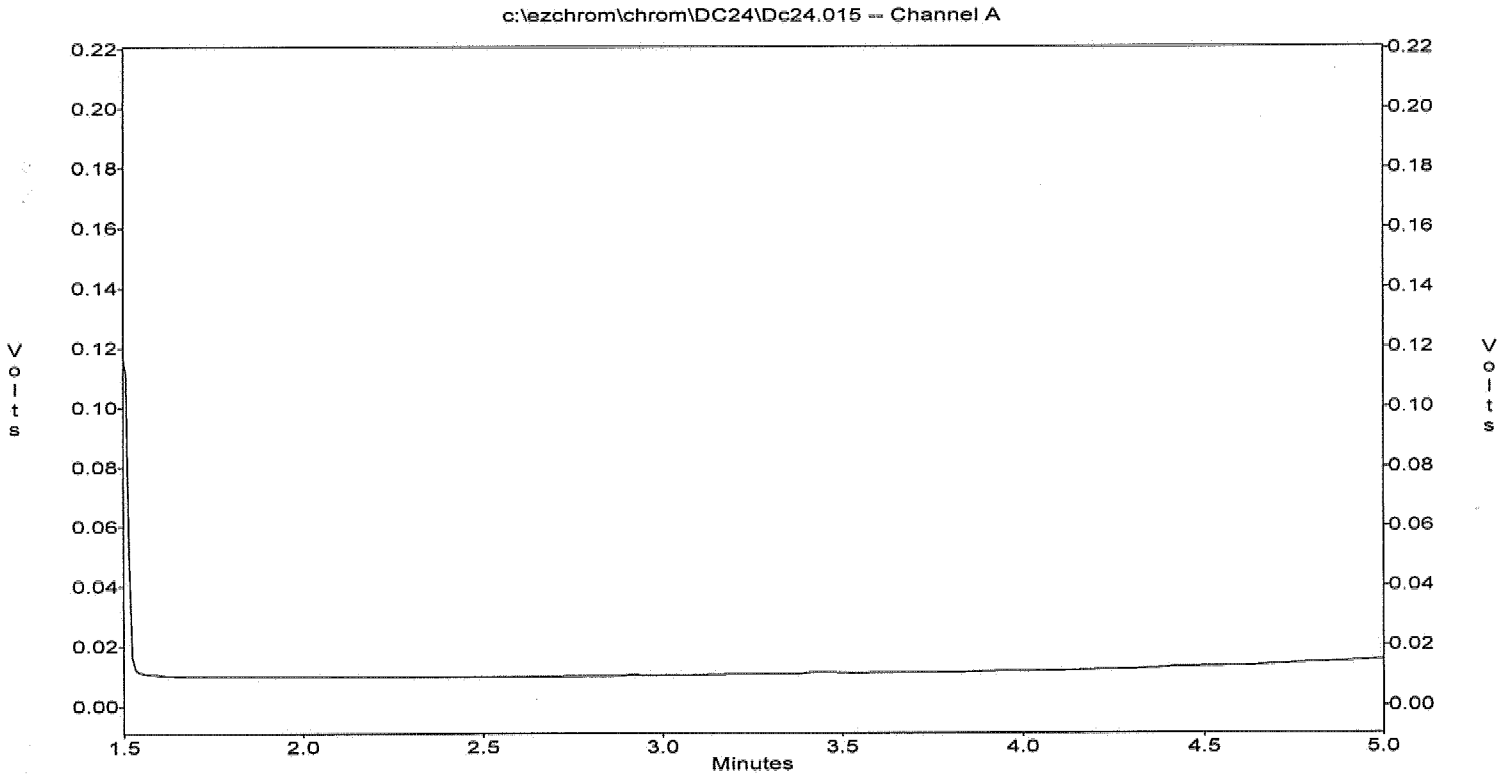
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
ETHYLENE GLYCOL	ND	10	5

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.015
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : 06C204-02
Acquired : Mar 24, 2006 14:09:15
Printed : Mar 24, 2006 14:16:17
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0



METHOD M8015
ETHYLENE GLYCOL

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/24/06 13:19
Sample ID:	M-118	Date Analyzed:	03/24/06 13:19
Lab Samp ID:	C204-03	Dilution Factor:	1
Lab File ID:	DC24012A	Matrix	: WATER
Ext Btch ID:	EGC012W	% Moisture	: NA
Calib. Ref.:	DC24002A	Instrument ID	: GCT043

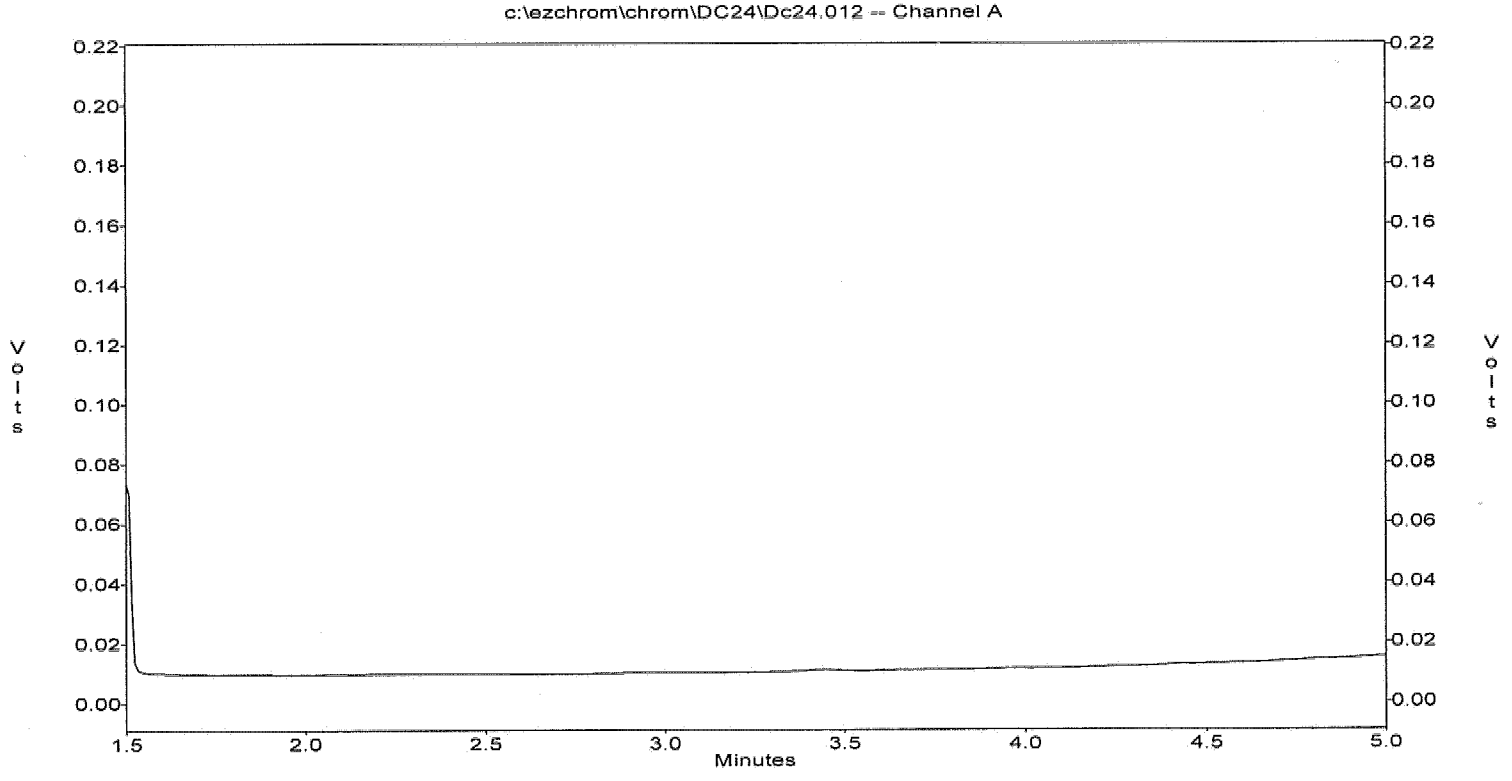
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
ETHYLENE GLYCOL	ND	10	5

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.012
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : 06C204-03
Acquired : Mar 24, 2006 13:19:53
Printed : Mar 24, 2006 13:26:54
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0



QC SUMMARIES

METHOD M8015
ETHYLENE GLYCOL

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/24/06
Batch No.	: 06C204	Date Extracted:	03/24/06 10:44
Sample ID:	MBLK1W	Date Analyzed:	03/24/06 10:44
Lab Samp ID:	EGC012WB	Dilution Factor:	1
Lab File ID:	DC24003A	Matrix :	WATER
Ext Btch ID:	EGC012W	% Moisture :	NA
Calib. Ref.:	DC24002A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
ETHYLENE GLYCOL	ND	10	5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	EGC012WB	EGC012WL	EGC012WC		
LAB FILE ID:	DC24003A	DC24004A	DC24005A		
DATE EXTRACTED:	03/24/0610:44	03/24/0610:55	03/24/0611:09	DATE COLLECTED:	NA
DATE ANALYZED:	03/24/0610:44	03/24/0610:55	03/24/0611:09	DATE RECEIVED:	03/24/06
PREP. BATCH:	EGC012W	EGC012W	EGC012W		
CALIB. REF:	DC24002A	DC24002A	DC24002A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Ethylene Glycol	ND	50	50.5	101	50	55.3	111	9	40-140	50

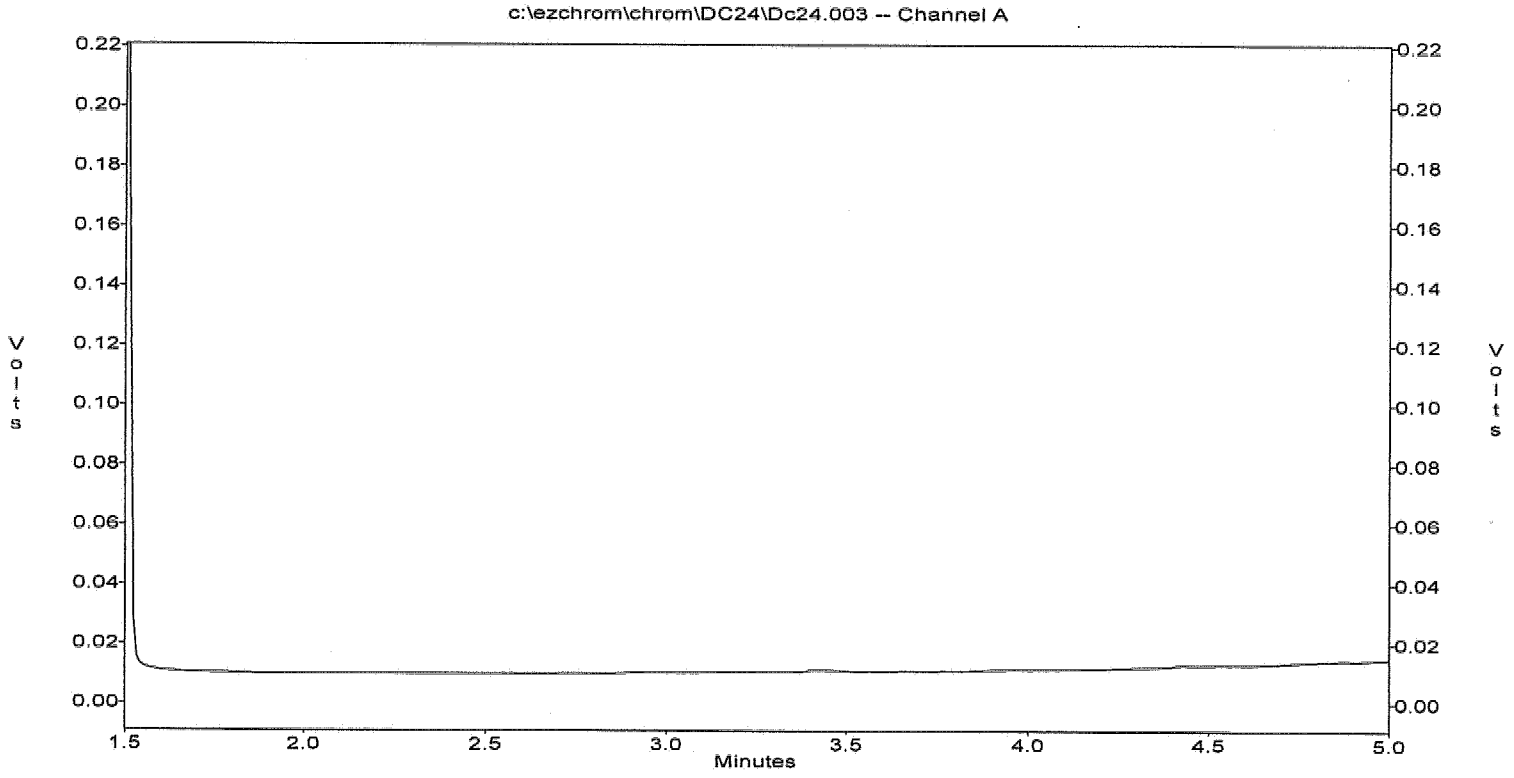
QC DATA

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.003
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : EGC012WB
Acquired : Mar 24, 2006 10:44:07
Printed : Mar 24, 2006 10:51:08
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0

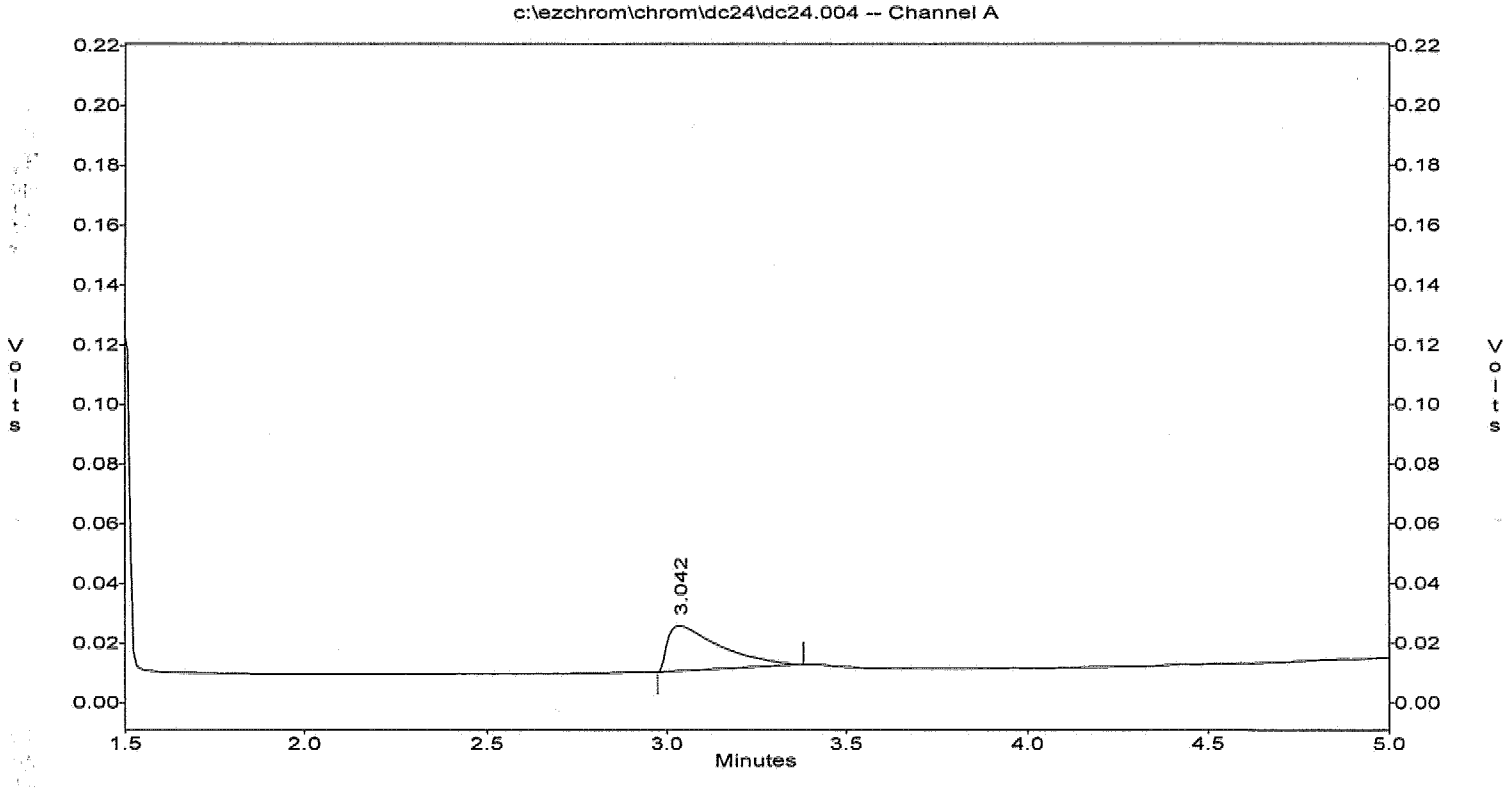


EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc24\dc24.004
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EGC012WL 50PPM
Acquired : Mar 24, 2006 10:55:40
Printed : Mar 24, 2006 11:06:23
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.042	154577	3058.1	50.5

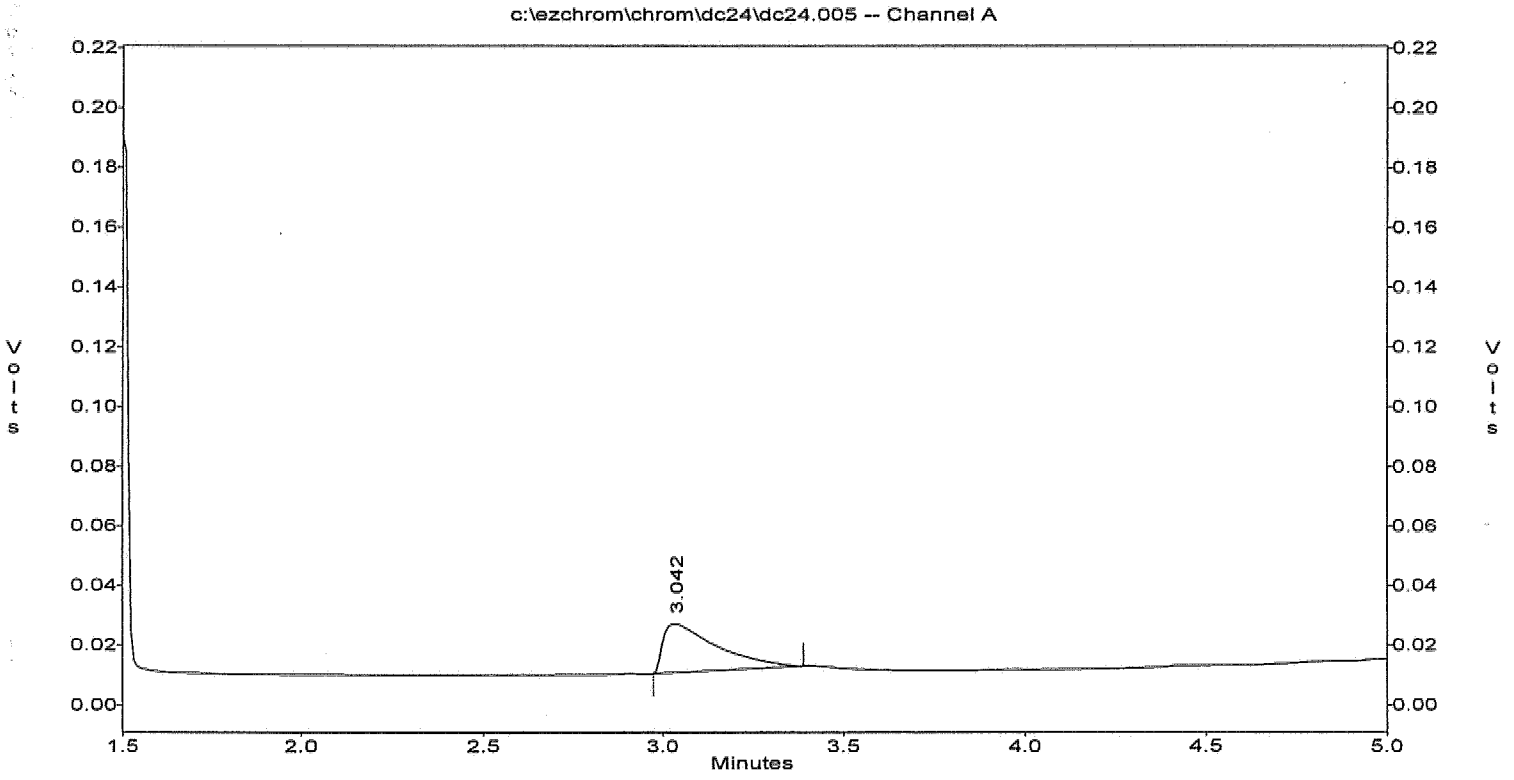


EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc24\dc24.005
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EGC012WC 50PPM
Acquired : Mar 24, 2006 11:09:51
Printed : Mar 24, 2006 11:22:44
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.042	169267	3058.1	55.4



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015EG

Lab Name : EMAX Inc
Instrument ID : GCT043
GC Column : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
LFID & Datetime: DC10024A 03/10/06 16:45
LFID & Datetime: DC10025A 03/10/06 16:57
LFID & Datetime: DC10026A 03/10/06 17:12
LFID & Datetime: DC10029A 03/10/06 17:57
LFID & Datetime: DC10028A 03/10/06 17:39
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.00X	5.00X	7.50X	10.00X	MEAN	%RSD
Ethylene Glycol	10.00	2634.70	2679.95	3055.42	3332.45	3588.02	3058.11	13.5

EG43C10.MET

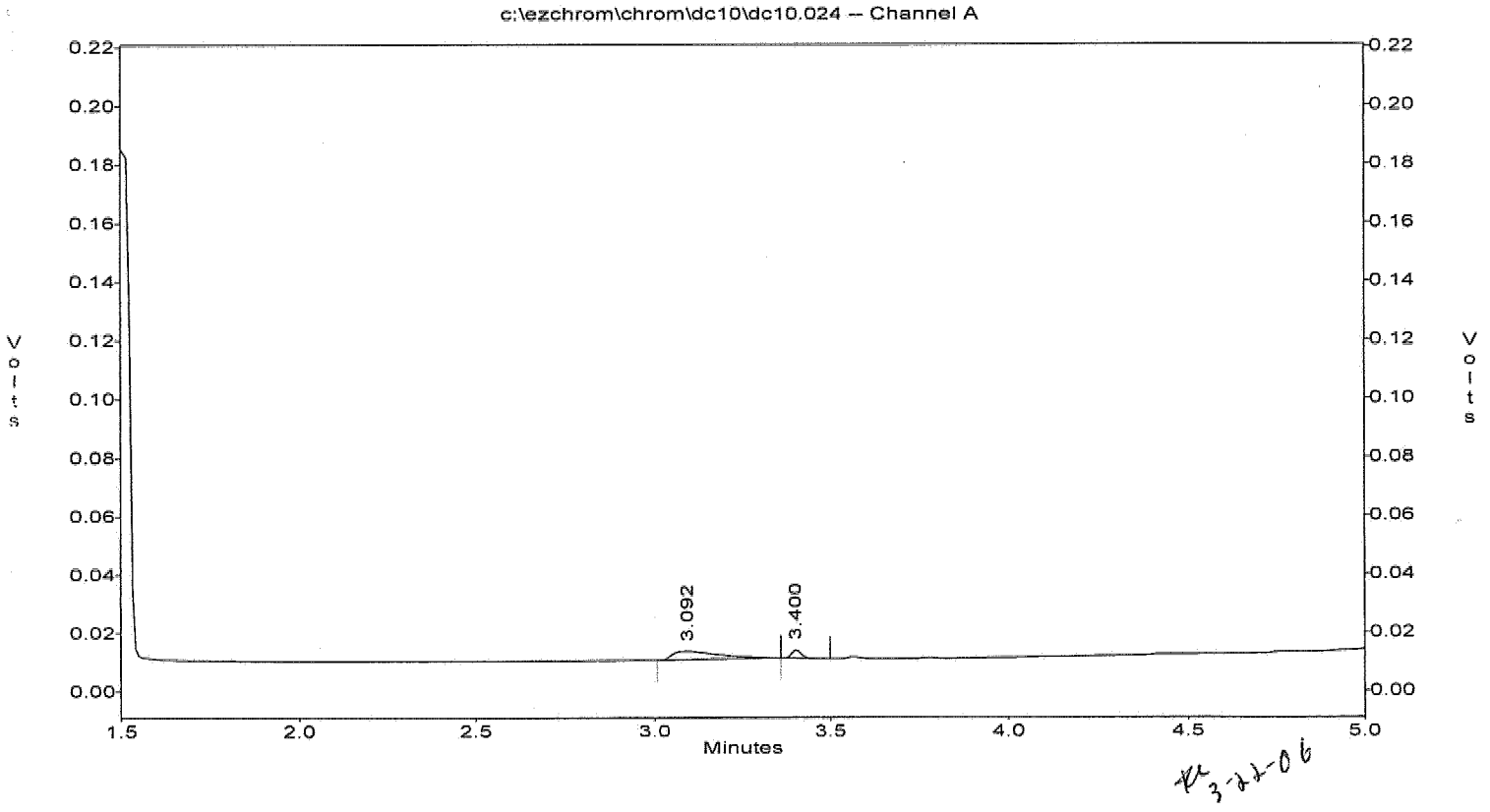
KW 3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.024
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1001 10PPM
Acquired : Mar 10, 2006 16:45:04
Printed : Mar 15, 2006 17:09:13
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.092	26347	3058.1	10.0



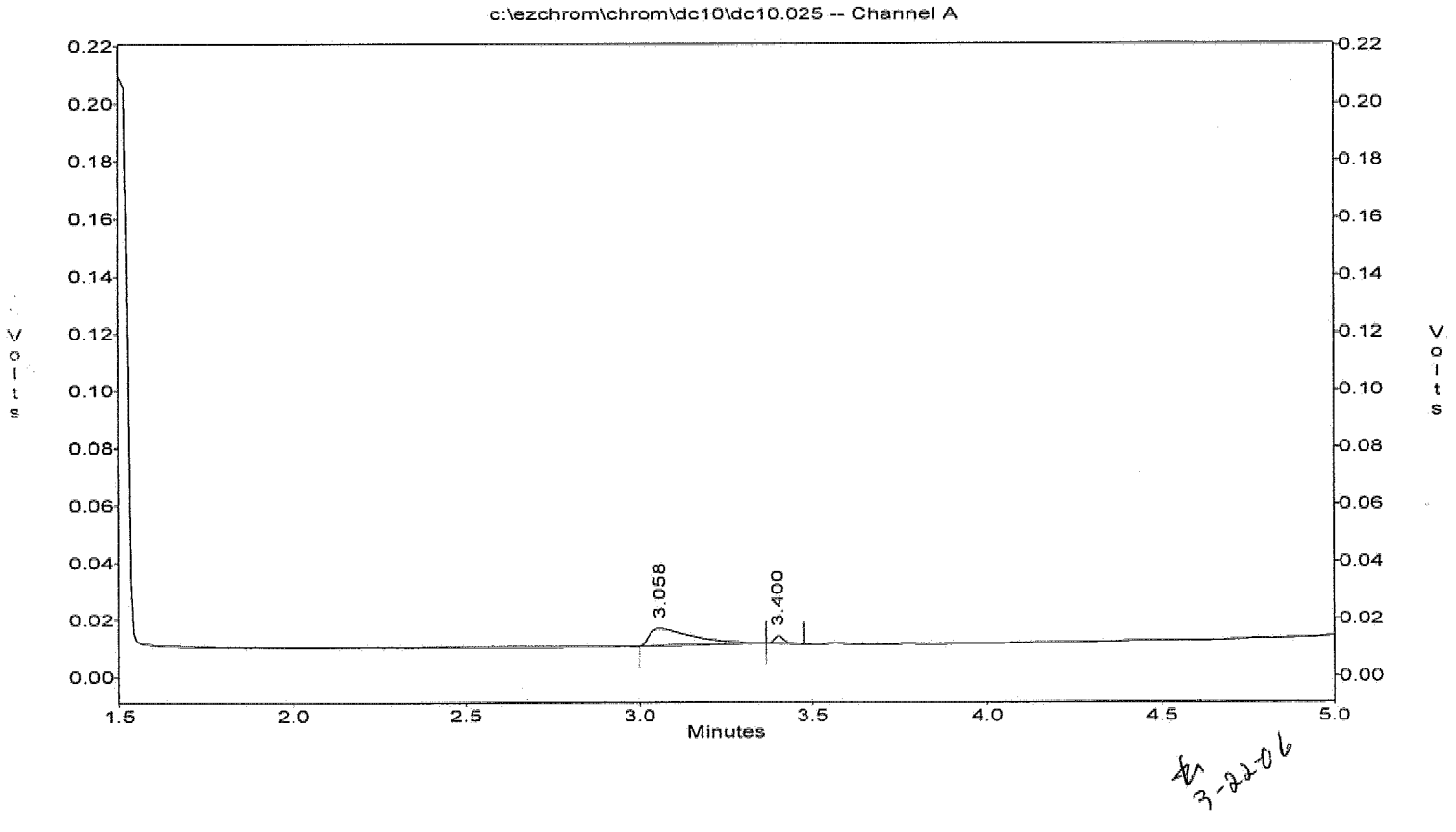
3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.025
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1002 20PPM
Acquired : Mar 10, 2006 16:57:52
Printed : Mar 15, 2006 17:09:44
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.058	53599	3058.1	20.0



3-22-06

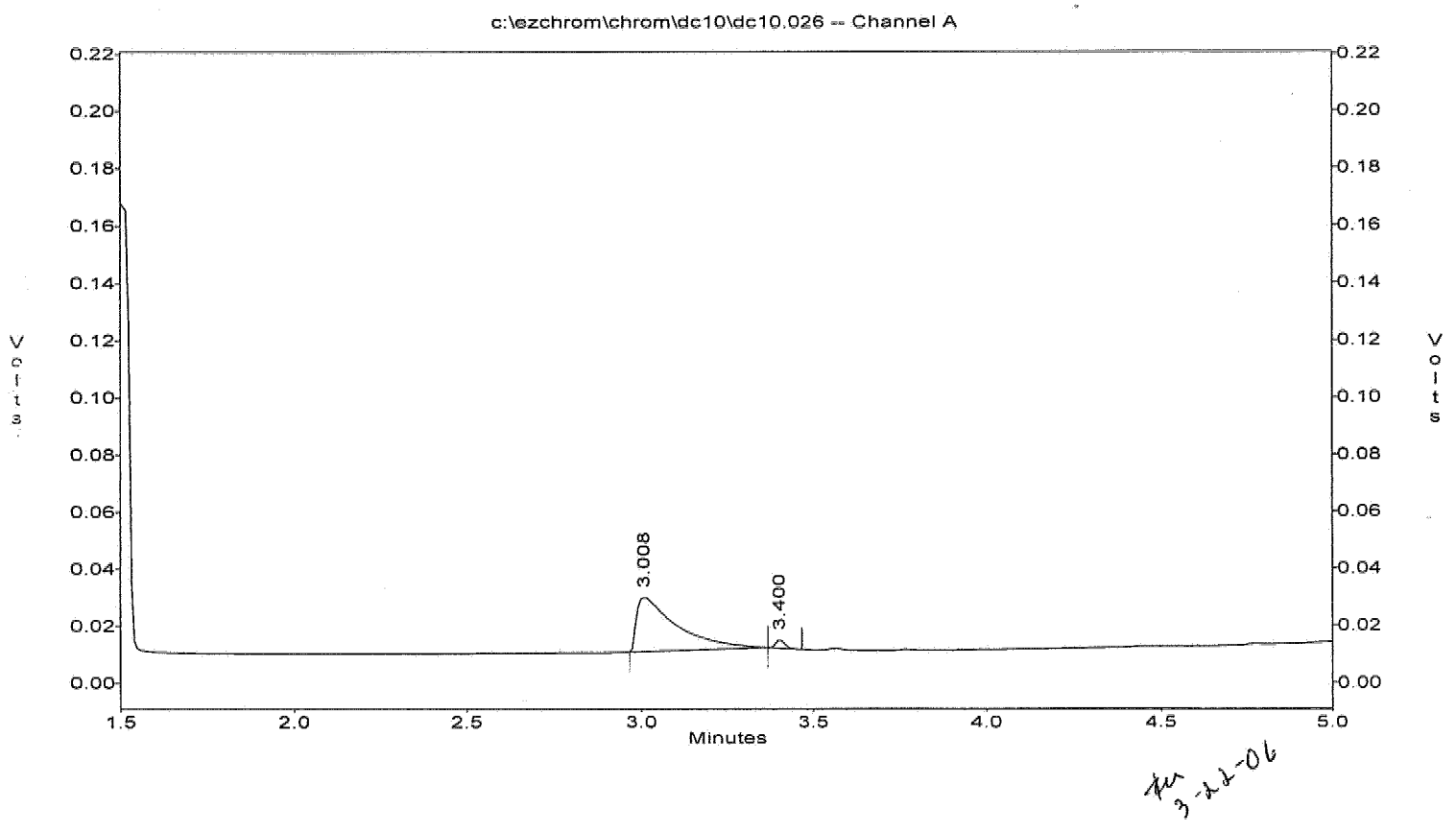
5119

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.026
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1003 50PPM
Acquired : Mar 10, 2006 17:12:34
Printed : Mar 15, 2006 17:09:57
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	3.008	152771	3058.1	50.0



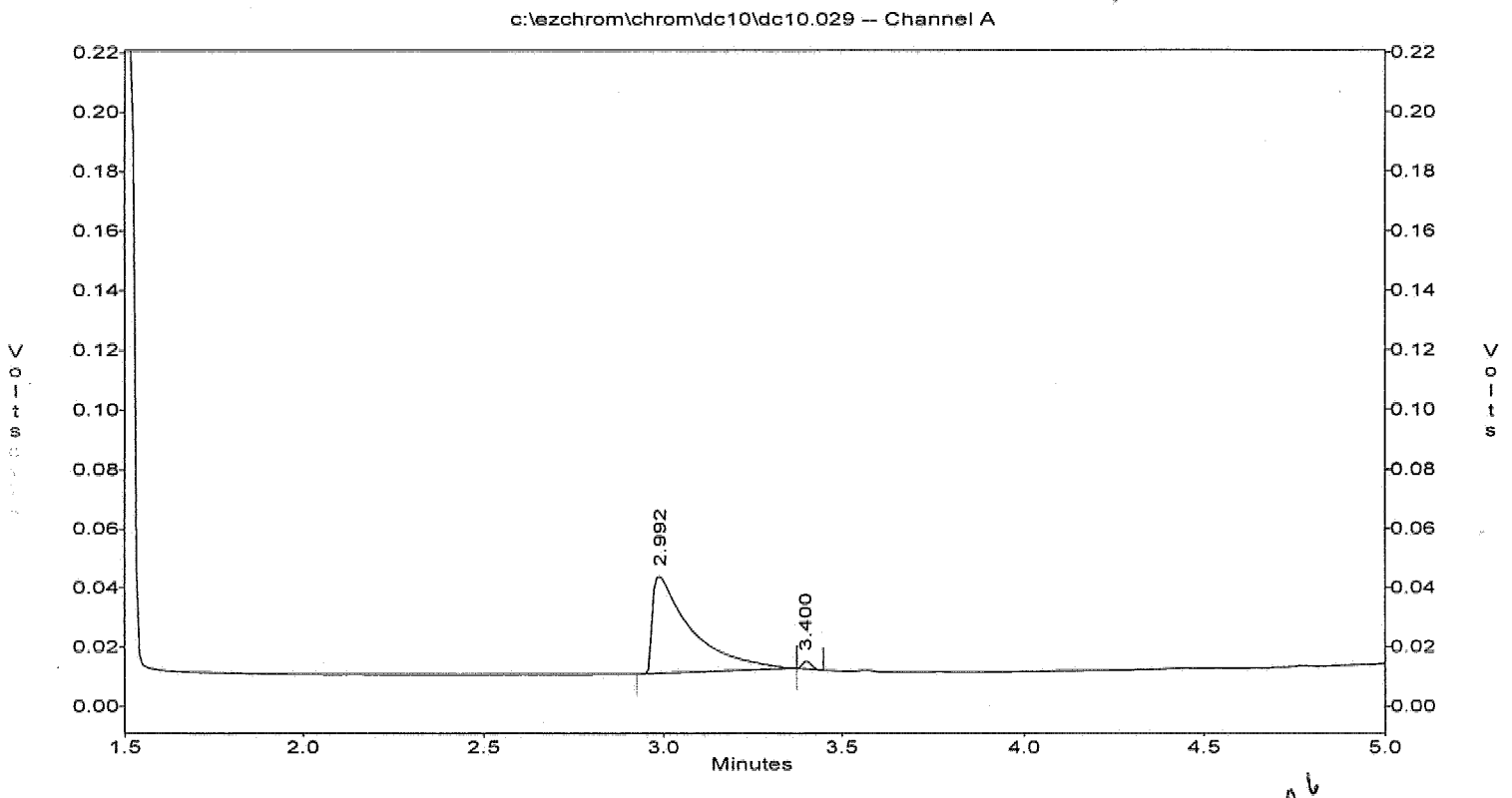
3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.029
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1004 75PPM
Acquired : Mar 10, 2006 17:57:02
Printed : Mar 15, 2006 17:10:07
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	2.992	249934	3058.1	75.0



3-22-06

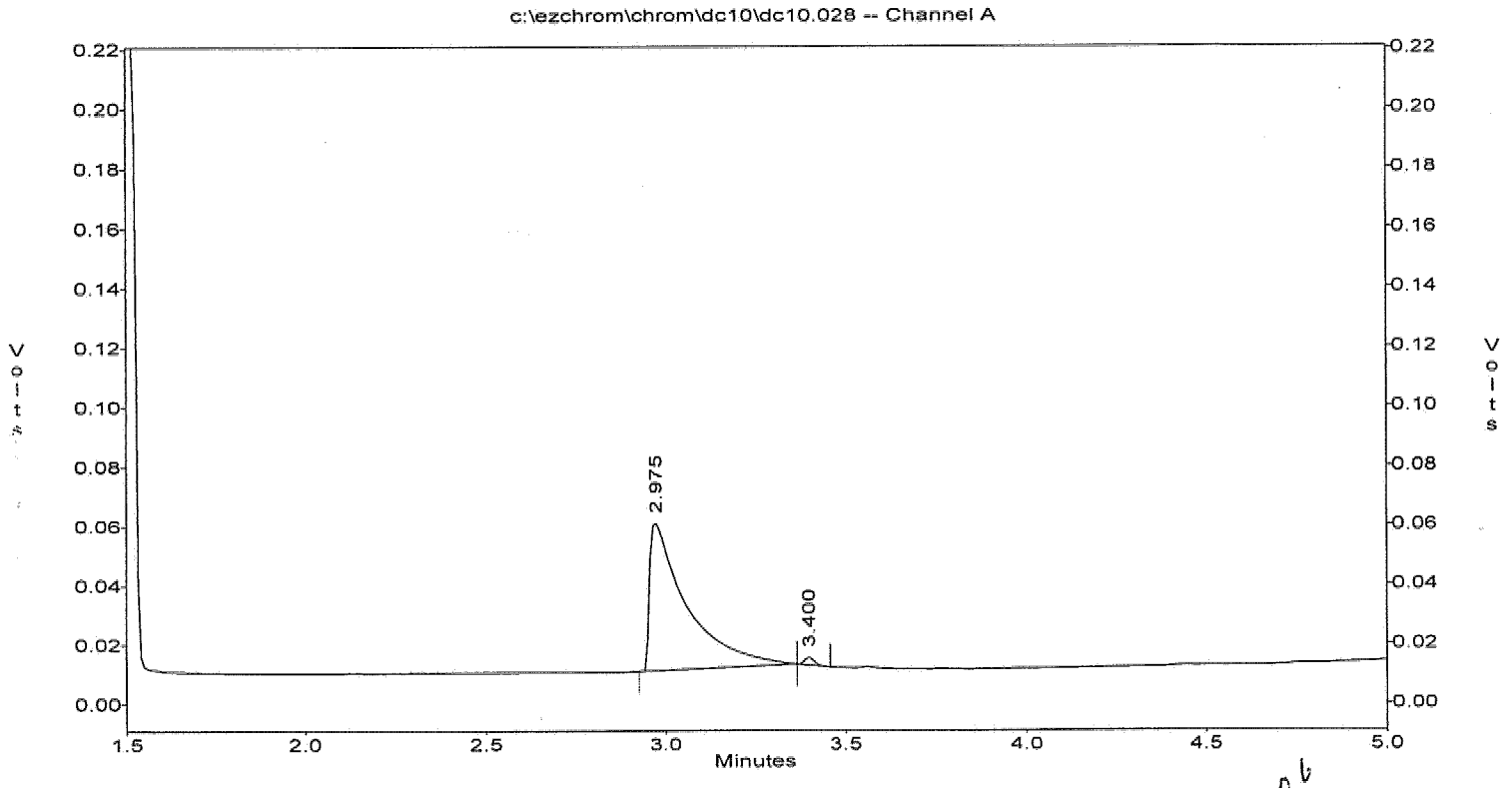
5121

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.028
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1005 100PPM
Acquired : Mar 10, 2006 17:39:51
Printed : Mar 15, 2006 17:10:18
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	2.975	358802	3058.1	100.0



3-22-06

5122

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015EG

Lab Name : EMAX
Instrument ID : GCTO43
GC Column : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
Conc Cont LFID & Datetime: DC10030A 03/10/2006 18:14
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Ethylene Glycol	3.008	2.769	3.247	50.0	3058.1	174073	56.92	14		15

EG43C10.MET

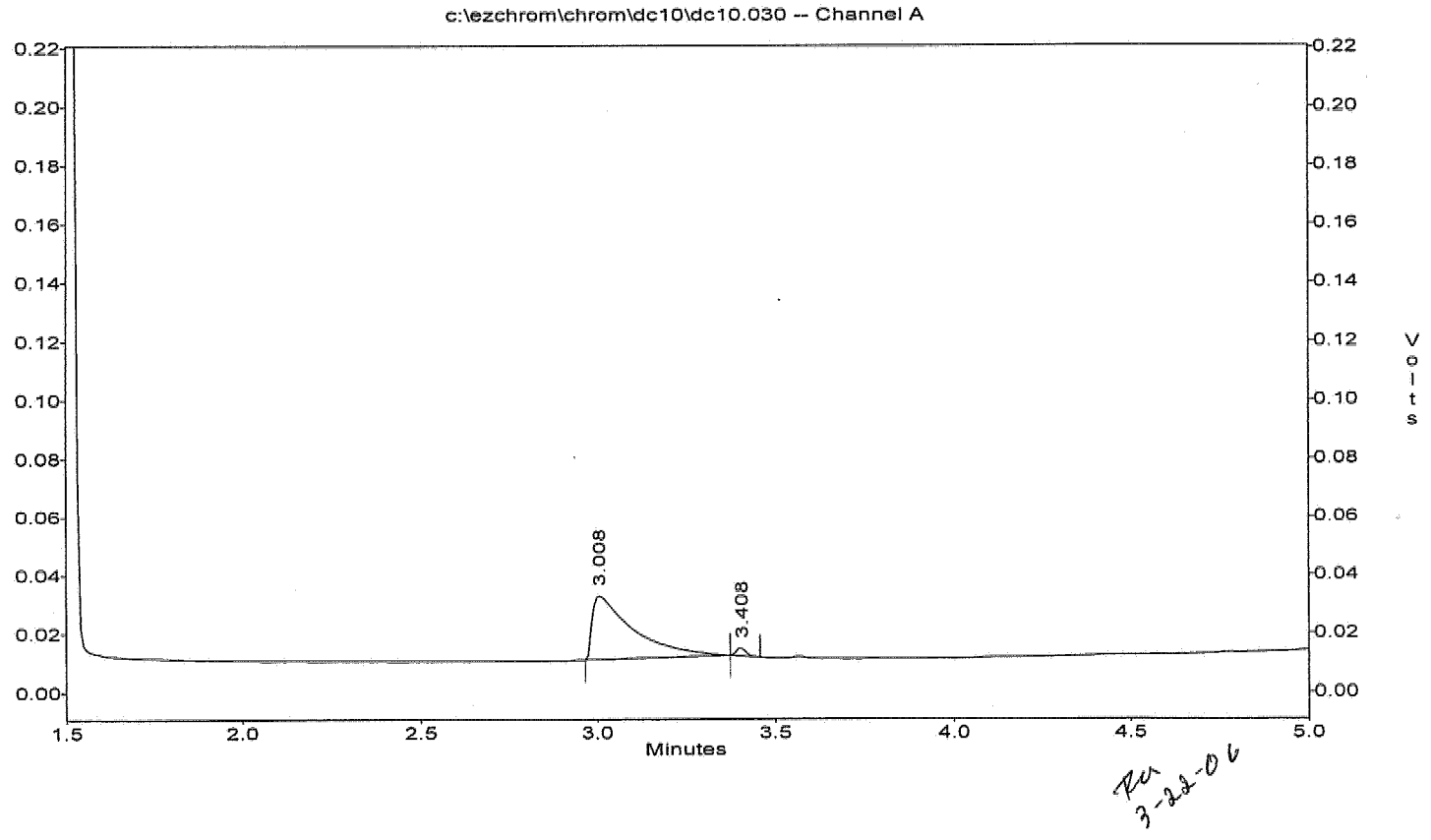
3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.030
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : IEG43C1001 50PPM
Acquired : Mar 10, 2006 18:14:40
Printed : Mar 15, 2006 17:10:38
User : LUCY

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	3.008	174073	3058.1	56.9



RV 3-22-06

5125

DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015EG

Lab Name : EMAX
Instrument ID : GCTO43
GC Columm : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
Conc Cont LFID & Datetime: DC24002A 03/24/2006 10:24
CONC UNIT : ppm

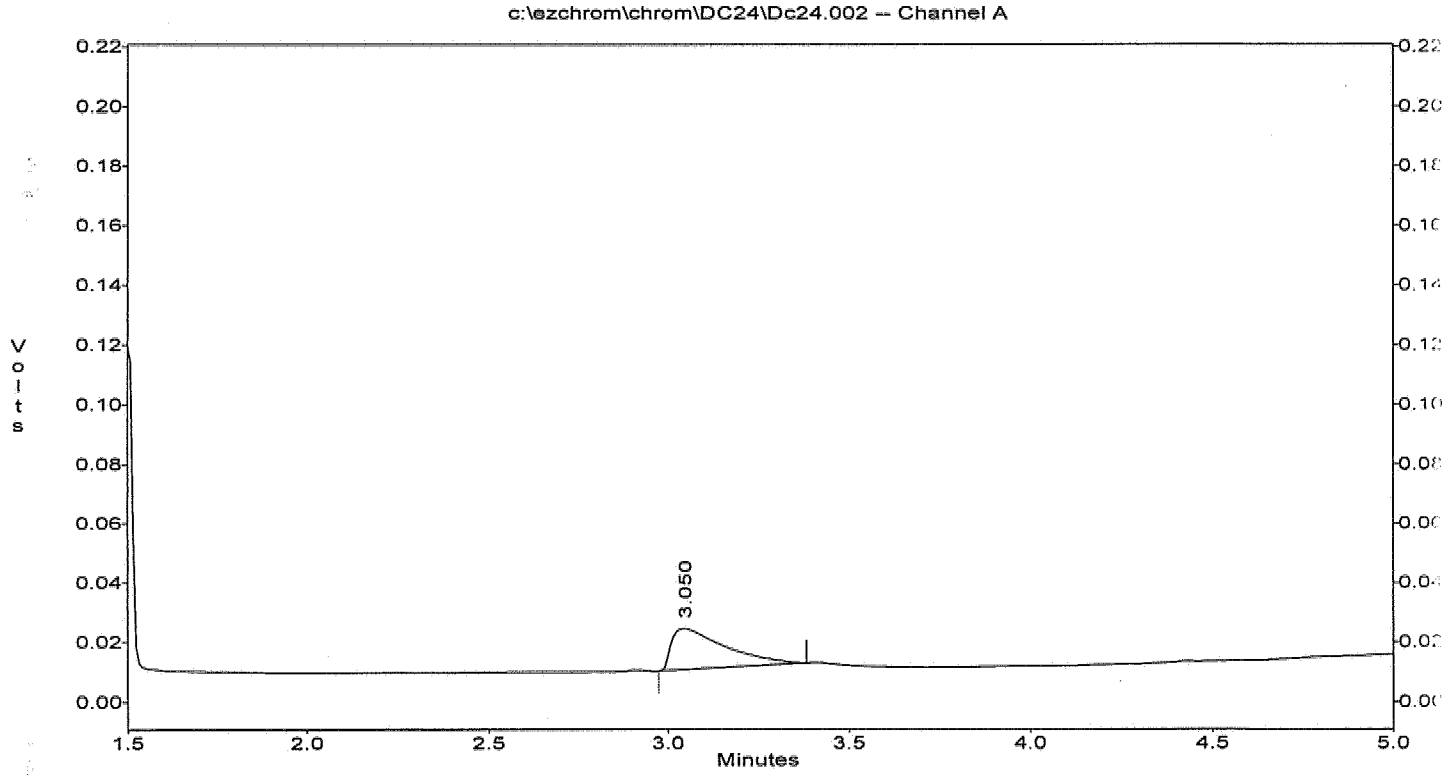
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Ethylene Glycol	3.050	2.811	3.289	50.0	3058.1	140705	46.01	-8		15

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.002
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : CEG43C10053
Acquired : Mar 24, 2006 10:24:53
Printed : Mar 24, 2006 10:31:54
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.050	140705	3058.1	46.0



CONTINUE CALIBRATION
METHOD M8015EG

Lab Name : EMAX
Instrument ID : GCTO43
GC Columm : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
Conc Cont LFID & Datetime: DC24013A 03/24/2006 13:35
CONC UNIT : ppm

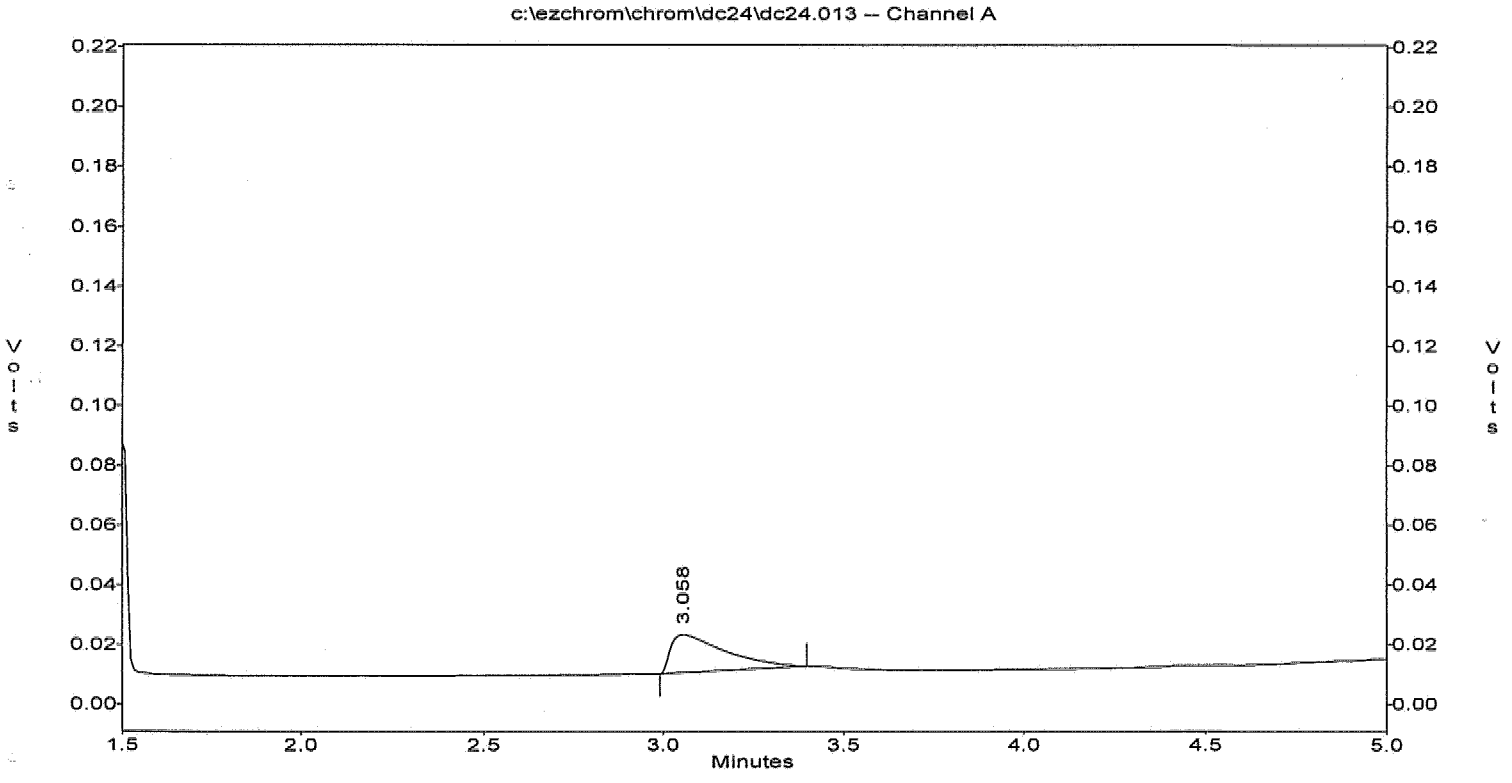
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Ethylene Glycol	3.058	2.819	3.297	50.0	3058.1	133399	43.62	-13		15

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc24\dc24.013
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : CEG43C10054
Acquired : Mar 24, 2006 13:35:30
Printed : Mar 24, 2006 13:48:13
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.058	133399	3058.1	43.6



CONTINUE CALIBRATION
METHOD M8015EG

Lab Name : EMAX
Instrument ID : GCTO43
GC Columm : SUPELCO WAX 10
Column size ID : 30MX0.53MMX0.25UM
Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
Conc Cont LFID & Datetime: DC24025A 03/24/2006 16:25
CONC UNIT : ppm

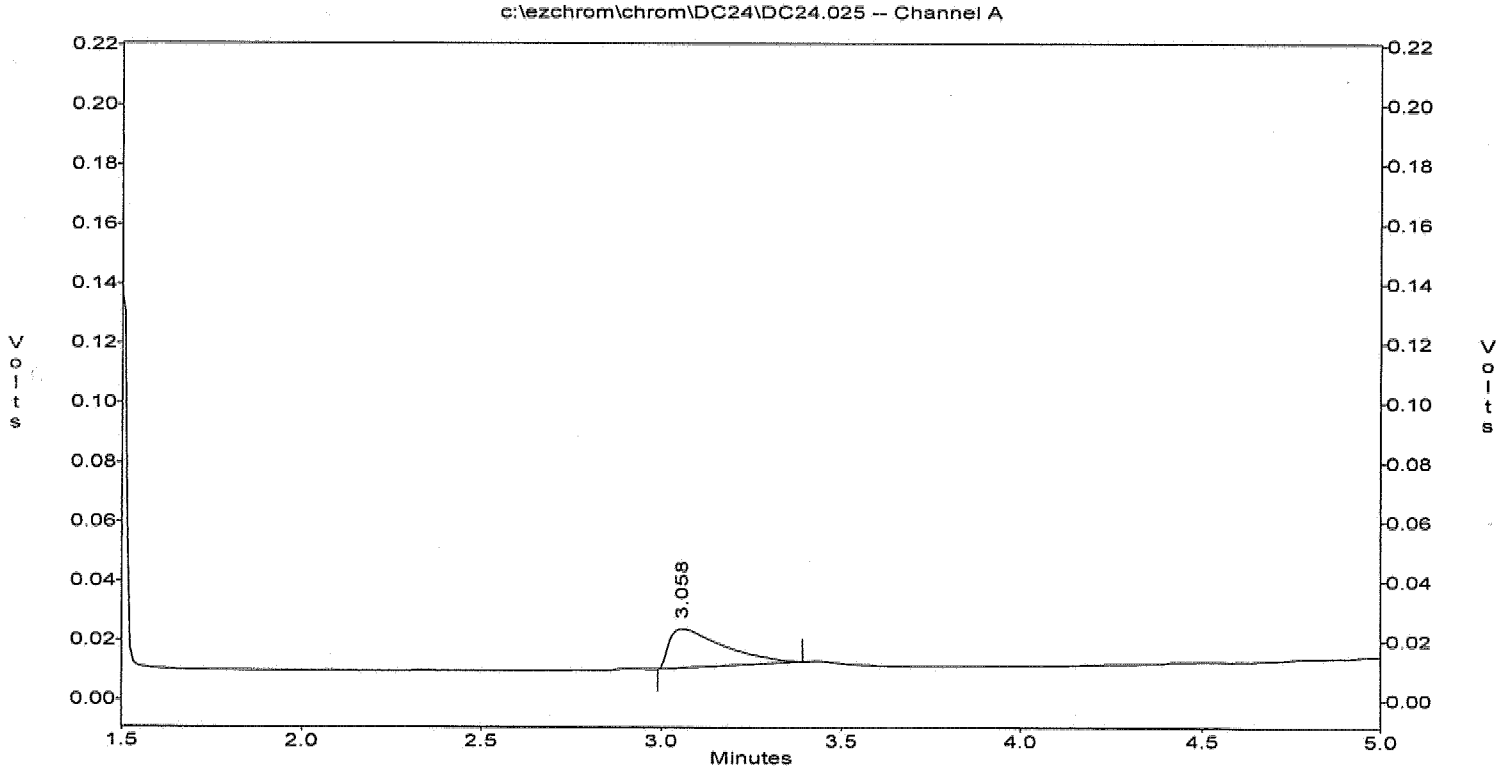
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Ethylene Glycol	3.058	2.819	3.297	50.0	3058.1	135993	44.47	-11		15

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\DC24.025
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : CEG43C10055
Acquired : Mar 24, 2006 16:25:50
Printed : Mar 27, 2006 08:59:41
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppm)
1	Ethylene Glycol	3.058	135993	3058.1	44.5



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP ☐ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☑ Ethylene Glycol Book # A43-012

Starting Date: 3/10/06 Time: 16:33 Ending Date: 3/10/06 Time: 18:14

ANALYTICAL BATCH NA

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
NA	DC10.023	IB43C021	NA			
	24	EG43C1001				10 ppm
	25	02				20
	26	03				50
	27	04				75 → Bad inj.
	28	05				100
	29	04				75
	30	IEG43C1001				50

XP 3/10/06

Instrument No:	43
INITIAL CALIBRATION REFERENCE	

	ID	Date
Diesel		
Motor oil		
JP 5		
Alcohols		
Ethylene Glycol	EG43C10	3/10/06

Standards

Name	ID	Conc. (mg/L)
CH_2Cl_2	—	—
DCC / Ical	SS3C-07-13-3	10 - 100
LCS / ICV	SS3C-07-14-1	50

Electronic Data Archival

Location	Date
☑ EZC_2_Diesel	3/13/06
☐	

Comments:

Analyzed By: XP

Disposed on: 3/10/06 By: XP

This page is checked during the data review process.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR TPH

SOP ☐ EMAX-M8015D Revision No. 3 ☐ EMAX-LUFTE Revision No. 3 ☑ Ethylene Glycol Book # A43-012

Starting Date: 3/24/06 Time: 10:13 Ending Date: 3/24/06 Time: 16:25

ANALYTICAL BATCH DC24.007

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	DC24.001	IB43C053				
	2	CEG43C10053	2			50ppm
EGC012W	3	EGC012WB	1		✓	
	4	L				50ppm (20x)
	5	C				
	6	06C187-01				pH 7
	7	02				
	8	03				
	9	04				
	10	06C199-01				
	11	06C204-01				
	12	03				
	13	CEG43C10054	2			50 ppm
	14	TEST				Isopropyl Alc
EGC012W	15	06C204-02	1		✓	pH<2 adjusted to pH 7
	16	06C193-01				pH 7
	17	02				
	18	03				
	19	04				
	20	05				pH<2 adjusted to pH 7
	21	06C222-02				pH 7
	22	03				pH 5
	23	04				pH<2 adjusted to pH 7
	24	CEG43C10055	2			Bad inj.
	25	CEG43C10055	2			50ppm

Instrument No:		43
INITIAL CALIBRATION REFERENCE		
	ID	Date
Diesel		
Motor oil		
JP 5		
Alcohols		
E. Glycol	EG43C10	3/10/06
Standards		
Name	ID	Conc. (mg/L)
CH_2Cl_2	—	—
DCC	SS3C-07-12-3	100
LCS	SS3C-07-12-2	1000
H_2O	organic free	—
NaOH	SW7A-06-255	50%
Electronic Data Archival		
Location		Date
☐ EZC_2_Diesel		
☐		

Comments:

Analyzed By: XP

Disposed on: 3/27/06 By: XP

This page is checked during the data review process.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 3520C/8081A
PESTICIDES

SDG#: 06C204

CASE NARRATIVE

CLIENT: **ENSR**

PROJECT: **UPGRADIENT INVESTIGATION, TRONOX**

SDG: **06C204**

METHOD 3520C/8081A
PESTICIDES

One (1) water sample was received on 03/23/06 for Pesticides analysis by Method 3520C/3550B/8081A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Instrument Performance and Calibration**

   Initial calibration was at six-point for Pesticides and five-point for Technical Chlordane, all RSDs were within 20%. All continue calibrations were analyzed at 12 hour interval and mean recoveries were within 85-115%. Endrin and DDT breakdown were within QC limits.

3. **Method Blank**

   Method blank was free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   All recoveries were within QC limits.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Sample was analyzed according to the prescribed QC procedures. All criteria were met.

   When sample results are confirmed by a second column, the relative percentage difference (RPD) between the two results is calculated. If RPD is less than 40%, and no evidence of chromatographic problems, the higher result is reported. If RPD is greater than 40%, the chromatogram is checked for anomalies and results are selected based on the best professional judgment. If no evidence of any chromatographic problems, the higher result is reported.

LAB CHRONICLE
PESTICIDES

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C204
Instrument ID : GCT008

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	CPC022WB	1	NA	04/10/0613:20	03/27/0611:30	SD10008A	SD10003A	CPC022W	Method Blank
LCS1W	CPC022WL	1	NA	04/10/0613:47	03/27/0611:30	SD10009A	SD10003A	CPC022W	Lab Control Sample (LCS)
LCD1W	CPC022WC	1	NA	04/10/0614:13	03/27/0611:30	SD10010A	SD10003A	CPC022W	LCS Duplicate
M-120	C204-01	.94	NA	04/10/0615:32	03/27/0611:30	SD10013A	SD10003A	CPC022W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW3520C/8081A
PESTICIDES

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/27/06 11:30
Sample ID:	M-120	Date Analyzed:	04/10/06 15:32
Lab Samp ID:	C204-01	Dilution Factor:	.94
Lab File ID:	SD10013A	Matrix	: WATER
Ext Btch ID:	CPC022W	% Moisture	: NA
Calib. Ref.:	SD10003A	Instrument ID	: GCT008

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ALPHA-BHC	(ND) | ND	.047	.0094 | .0094
GAMMA-BHC (LINDANE)	(ND) | ND	.047	.0094 | .0094
BETA-BHC	(ND) | ND	.047	.0094 | .0094
HEPTACHLOR	(ND) | ND	.047	.0094 | .0094
DELTA-BHC	(ND) | ND	.047	.0094 | .0094
ALDRIN	(ND) | ND	.047	.0094 | .0094
HEPTACHLOR EPOXIDE	(ND) | ND	.047	.0094 | .0094
GAMMA-CHLORDANE	(ND) | ND	.047	.0094 | .0094
ALPHA-CHLORDANE	(ND) | ND	.047	.0094 | .0094
ENDOSULFAN I	(ND) | ND	.047	.0094 | .0094
4,4'-DDE	(ND) | ND	.094	.0094 | .0094
DIELDRIN	(ND) | ND	.094	.0094 | .0094
ENDRIN	(ND) | ND	.094	.0094 | .0094
4,4'-DDD	(ND) | ND	.094	.0094 | .0094
ENDOSULFAN II	(ND) | ND	.094	.0094 | .0094
4,4'-DDT	(ND) | ND	.094	.0094 | .0094
ENDRIN ALDEHYDE	(ND) | ND	.047	.0094 | .0094
ENDOSULFAN SULFATE	(ND) | ND	.094	.0094 | .0094
ENDRIN KETONE	(ND) | .012J	.047	.0094 | .0094
METHOXYCHLOR	(ND) | ND	.47	.094 | .094
TOXAPHENE	(ND) | ND	.94	.47 | .47
TECHNICAL-CHLORDANE	(ND) | ND	.47	.12 | .12

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	58 | (64)	30-140
DECACHLOROBIPHENYL	106 | (108)	40-150

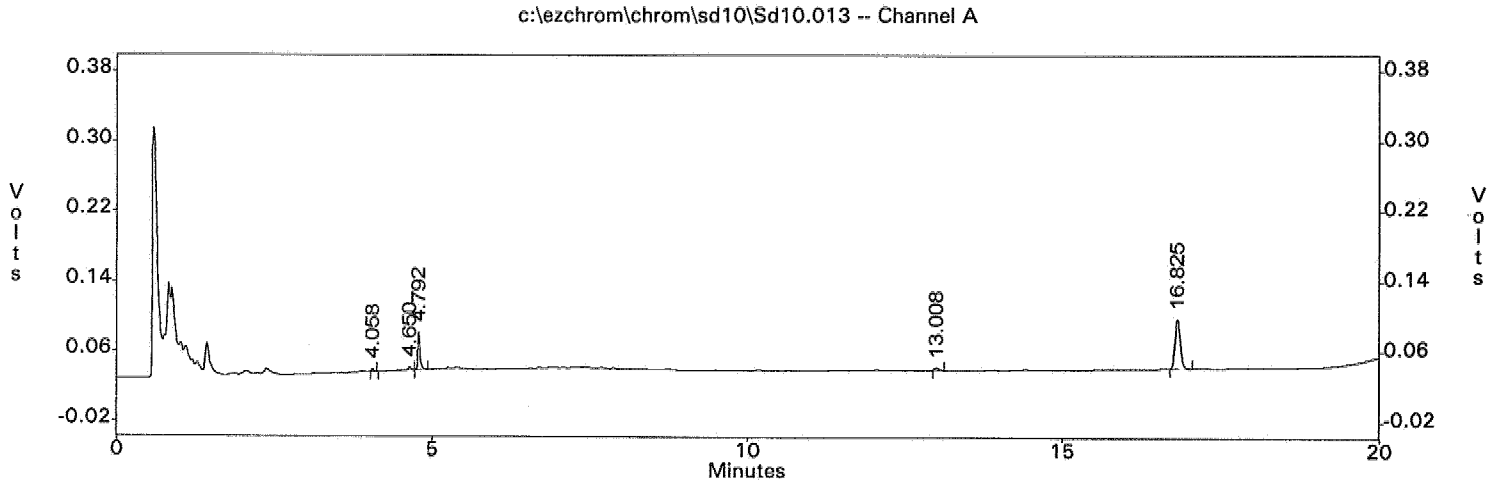
RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\Sd10.013
Method : c:\ezchrom\methods\Cp08b07.met
Sample ID : 06C204-01
Acquired : Apr 10, 2006 15:32:40
Printed : Apr 10, 2006 15:52:42
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
3	TCX	4.792	107037	4651.2	23.0
--	Hexachlorobenzene	5.367	0	0.0	0.0
--	alpha-BHC	5.617	0	0.0	0.0
--	gamma-BHC	6.033	0	0.0	0.0
--	beta-BHC	6.183	0	0.0	0.0
--	delta-BHC	6.383	0	0.0	0.0
--	Heptachlor	6.600	0	0.0	0.0
--	Aldrin	6.933	0	0.0	0.0
--	Heptachlor Epoxide	7.667	0	0.0	0.0
--	gamma-Chlordane	7.833	0	0.0	0.0
--	alpha-Chlordane	8.025	0	0.0	0.0
--	DDE	8.200	0	0.0	0.0
--	Endosulfan I	8.217	0	0.0	0.0
--	Dieldrin	8.608	0	0.0	0.0
--	Endrin	9.008	0	0.0	0.0
--	DDD	9.258	0	0.0	0.0
--	Endosulfan II	9.467	0	0.0	0.0
--	DDT	9.850	0	0.0	0.0
--	Endrin Aldehyde	10.433	0	0.0	0.0
--	Mirex	11.200	0	0.0	0.0
--	Methoxychlor	11.233	0	0.0	0.0
--	Endosulfan Sulfate	11.617	0	0.0	0.0
--	Endrin Ketone	12.417	0	0.0	0.0
5	DCB	16.825	324702	7628.6	42.6
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

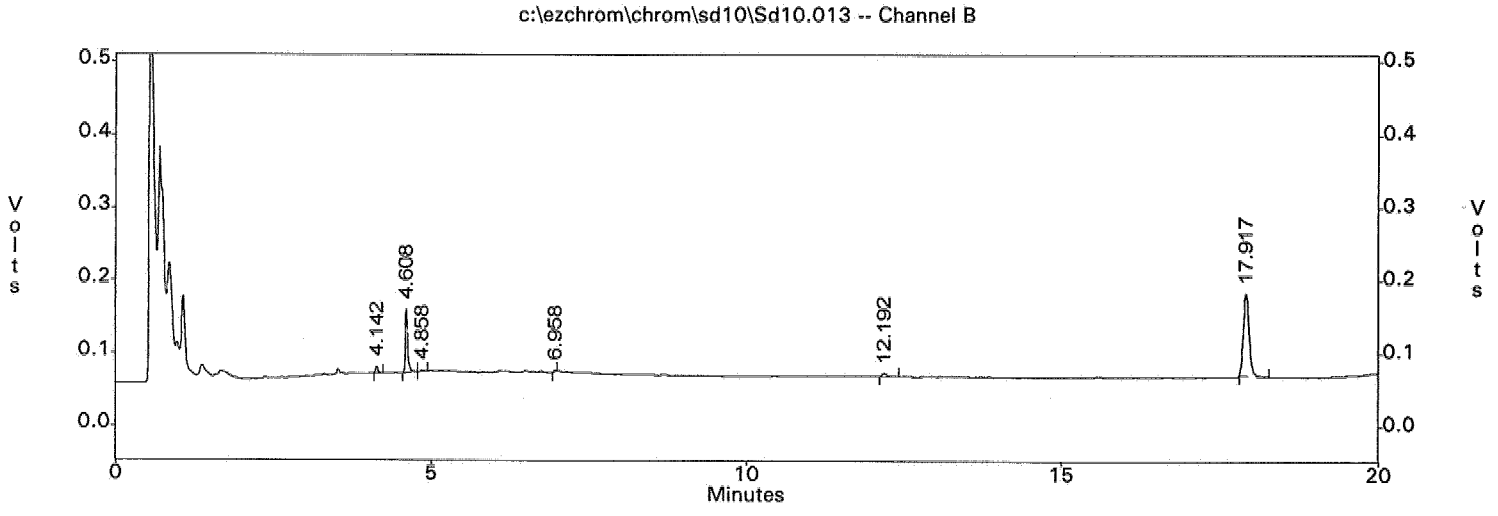


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\Sd10.013
Method : c:\ezchrom\methods\Cp08b07.met
Sample ID : 06C204-01
Acquired : Apr 10, 2006 15:32:40
Printed : Apr 10, 2006 15:52:42
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.608	237231	9286.2	25.5
--	Hexachlorobenzene	5.283	0	0.0	0.0
--	alpha-BHC	5.500	0	0.0	0.0
--	gamma-BHC	5.942	0	0.0	0.0
--	beta-BHC	6.092	0	0.0	0.0
--	delta-BHC	6.417	0	0.0	0.0
--	Heptachlor	6.433	0	0.0	0.0
--	Aldrin	6.775	0	0.0	0.0
--	Heptachlor Epoxide	7.417	0	0.0	0.0
--	gamma-Chlordane	7.650	0	0.0	0.0
--	alpha-Chlordane	7.850	0	0.0	0.0
--	Endosulfan I	7.900	0	0.0	0.0
--	DDE	8.167	0	0.0	0.0
--	Dieldrin	8.308	0	0.0	0.0
--	Endrin	8.808	0	0.0	0.0
--	DDD	9.200	0	0.0	0.0
--	Endosulfan II	9.233	0	0.0	0.0
--	DDT	9.867	0	0.0	0.0
--	Endrin Aldehyde	10.000	0	0.0	0.0
--	Endosulfan Sulfate	10.708	0	0.0	0.0
--	Mirex	11.933	0	0.0	0.0
--	Methoxychlor	11.950	0	0.0	0.0
5	Endrin Ketone	12.192	25557	9990.3	2.6
6	DCB	17.917	721096	16659.5	43.3
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



QC SUMMARIES

SW3520C/8081A
PESTICIDES

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/27/06
Batch No.	: 06C204	Date Extracted:	03/27/06 11:30
Sample ID:	MBLK1W	Date Analyzed:	04/10/06 13:20
Lab Samp ID:	CPC022WB	Dilution Factor:	1
Lab File ID:	SD10008A	Matrix	: WATER
Ext Btch ID:	CPC022W	% Moisture	: NA
Calib. Ref.:	SD10003A	Instrument ID	: GCT008

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ALPHA-BHC	(ND) | ND	.05	.01 | .01
GAMMA-BHC (LINDANE)	(ND) | ND	.05	.01 | .01
BETA-BHC	(ND) | ND	.05	.01 | .01
HEPTACHLOR	(ND) | ND	.05	.01 | .01
DELTA-BHC	(ND) | ND	.05	.01 | .01
ALDRIN	(ND) | ND	.05	.01 | .01
HEPTACHLOR EPOXIDE	(ND) | ND	.05	.01 | .01
GAMMA-CHLORDANE	(ND) | ND	.05	.01 | .01
ALPHA-CHLORDANE	(ND) | ND	.05	.01 | .01
ENDOSULFAN I	(ND) | ND	.05	.01 | .01
4,4'-DDE	(ND) | ND	.1	.01 | .01
DIELDRIN	(ND) | ND	.1	.01 | .01
ENDRIN	(ND) | ND	.1	.01 | .01
4,4'-DDD	(ND) | ND	.1	.01 | .01
ENDOSULFAN II	(ND) | ND	.1	.01 | .01
4,4'-DDT	(ND) | ND	.1	.01 | .01
ENDRIN ALDEHYDE	(ND) | ND	.05	.01 | .01
ENDOSULFAN SULFATE	(ND) | ND	.1	.01 | .01
ENDRIN KETONE	(ND) | ND	.05	.01 | .01
METHOXYCHLOR	(ND) | ND	.5	.1 | .1
TOXAPHENE	(ND) | ND	1	.5 | .5
TECHNICAL-CHLORDANE	(ND) | ND	.5	.12 | .12

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	59 | (65)	30-130
DECACHLOROBIPHENYL	102 | (104)	40-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: SW3520C/8081A

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	CPC022WB	CPC022WL	CPC022WC		
LAB FILE ID:	SD10008A	SD10009A	SD10010A		
DATE EXTRACTED:	03/27/0611:30	03/27/0611:30	03/27/0611:30	DATE COLLECTED:	NA
DATE ANALYZED:	04/10/0613:20	04/10/0613:47	04/10/0614:13	DATE RECEIVED:	03/27/06
PREP. BATCH:	CPC022W	CPC022W	CPC022W		
CALIB. REF:	SD10003A	SD10003A	SD10003A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
alpha-BHC	(ND) | ND	.1	.0866 | (.0879)	87 | (88)	.1	.0804 | (.0853)	80 | (85)	7 | (3)	30-150	30
gamma-BHC (Lindane)	(ND) | ND	.1	.0802 | (.0838)	80 | (84)	.1	.0806 | (.0835)	81 | (84)	0 | (0)	40-130	30
beta-BHC	(ND) | ND	.1	.0823 | (.101)	82 | (101)	.1	.0871 | (.104)	87 | (104)	6 | (3)	60-130	30
Heptachlor	(ND) | ND	.1	.0817 | (.0904)	82 | (90)	.1	.0865 | (.0858)	86 | (86)	6 | (5)	30-140	30
delta-BHC	(ND) | ND	.1	.0762 | (.0821)	76 | (82)	.1	.0818 | (.0877)	82 | (88)	7 | (7)	30-150	30
Aldrin	(ND) | ND	.1	(.1) | .0977	(100) | 98	.1	(.0955) | .0955	(96) | 96	(5) | 2	40-130	30
Heptachlor Epoxide	(ND) | ND	.1	(.0951) | .0877	(95) | 88	.1	(.104) | .0991	(104) | 99	(9) | 12	50-140	30
gamma-Chlordane	(ND) | ND	.1	(.0951) | .0943	(95) | 94	.1	(.105) | .106	(105) | 106	(10) | 12	60-140	30
alpha-Chlordane	(ND) | ND	.1	.0864 | (.0879)	86 | (88)	.1	.0958 | (.0881)	96 | (88)	10 | (0)	50-140	30
Endosulfan I	(ND) | ND	.1	.0642 | (.0865)	64 | (86)	.1	.104 | (.104)	104 | (104)	47* | (18)	60-140	30
4,4'-DDE	(ND) | ND	.2	.183 | (.183)	92 | (92)	.2	.172 | (.208)	86 | (104)	6 | (13)	50-140	30
Dieldrin	(ND) | ND	.2	.167 | (.19)	84 | (95)	.2	.191 | (.217)	96 | (108)	13 | (13)	60-140	30
Endrin	(ND) | ND	.2	.214 | (.232)	107 | (116)	.2	.245 | (.265)	122 | (132)	14 | (13)	50-140	30
4,4'-DDD	(ND) | ND	.2	.156 | (.194)	78 | (97)	.2	.184 | (.23)	92 | (115)	16 | (17)	50-160	30
Endosulfan II	(ND) | ND	.2	.186 | (.193)	93 | (96)	.2	.213 | (.218)	106 | (109)	14 | (12)	60-150	30
4,4'-DDT	(ND) | ND	.2	.174 | (.182)	87 | (91)	.2	.204 | (.212)	102 | (106)	16 | (15)	60-140	30
Endrin aldehyde	(ND) | ND	.2	.176 | (.197)	88 | (98)	.2	.189 | (.211)	94 | (105)	7 | (7)	60-160	30
Endosulfan Sulfate	(ND) | ND	.2	.209 | (.217)	104 | (108)	.2	.23 | (.237)	115 | (118)	10 | (9)	70-140	30
Endrin Ketone	(ND) | ND	.2	.234 | (.273)	117 | (136)	.2	.256 | (.293)	128 | (146)	9 | (7)	30-150	30
Methoxychlor	(ND) | ND	1	1.11 | (1.14)	111 | (114)	1	1.19 | (1.22)	119 | (122)	7 | (7)	70-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.2	.137 | (.144)	69 | (72)	.2	.134 | (.143)	67 | (72)	30-130
Decachlorobiphenyl	.4	.382 | (.385)	95 | (96)	.4	(.414) | .413	(103) | 103	40-150

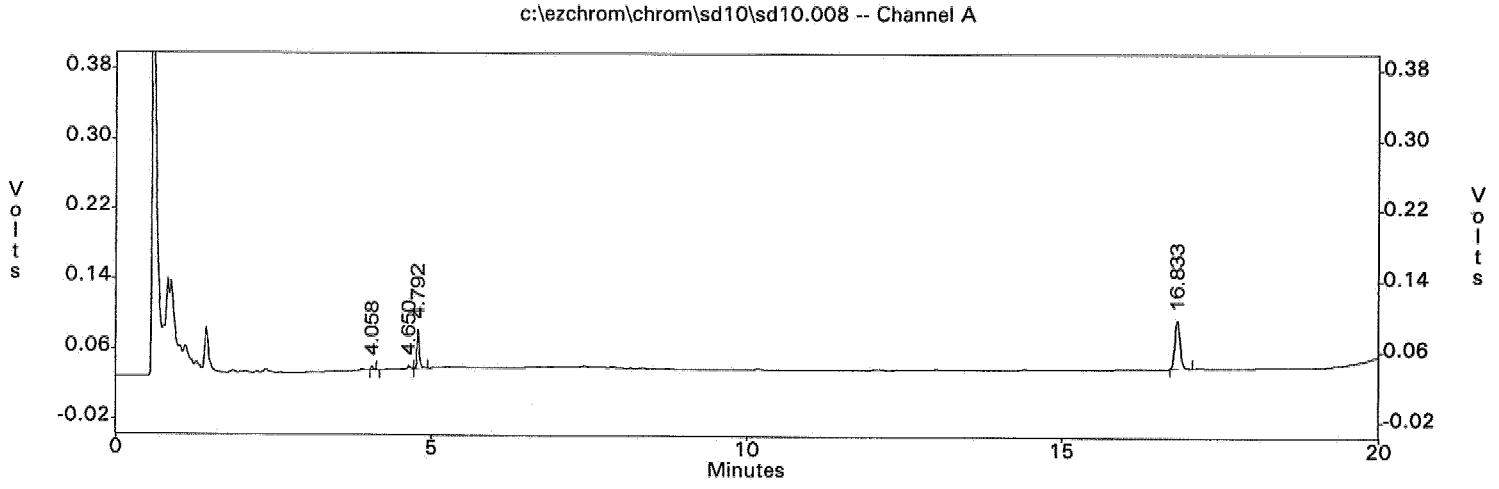
QC DATA

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.008
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CPC022WB
Acquired : Apr 10, 2006 13:20:58
Printed : Apr 10, 2006 14:43:44
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
3	TCX	4.792	110156	4651.2	23.7
--	Hexachlorobenzene	5.367	0	0.0	0.0
--	alpha-BHC	5.617	0	0.0	0.0
--	gamma-BHC	6.033	0	0.0	0.0
--	beta-BHC	6.183	0	0.0	0.0
--	delta-BHC	6.383	0	0.0	0.0
--	Heptachlor	6.600	0	0.0	0.0
--	Aldrin	6.933	0	0.0	0.0
--	Heptachlor Epoxide	7.667	0	0.0	0.0
--	gamma-Chlordane	7.833	0	0.0	0.0
--	alpha-Chlordane	8.025	0	0.0	0.0
--	DDE	8.200	0	0.0	0.0
--	Endosulfan I	8.217	0	0.0	0.0
--	Dieldrin	8.608	0	0.0	0.0
--	Endrin	9.008	0	0.0	0.0
--	DDD	9.258	0	0.0	0.0
--	Endosulfan II	9.467	0	0.0	0.0
--	DDT	9.850	0	0.0	0.0
--	Endrin Aldehyde	10.433	0	0.0	0.0
--	Mirex	11.200	0	0.0	0.0
--	Methoxychlor	11.233	0	0.0	0.0
--	Endosulfan Sulfate	11.617	0	0.0	0.0
--	Endrin Ketone	12.417	0	0.0	0.0
4	DCB	16.833	312237	7628.6	40.9
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

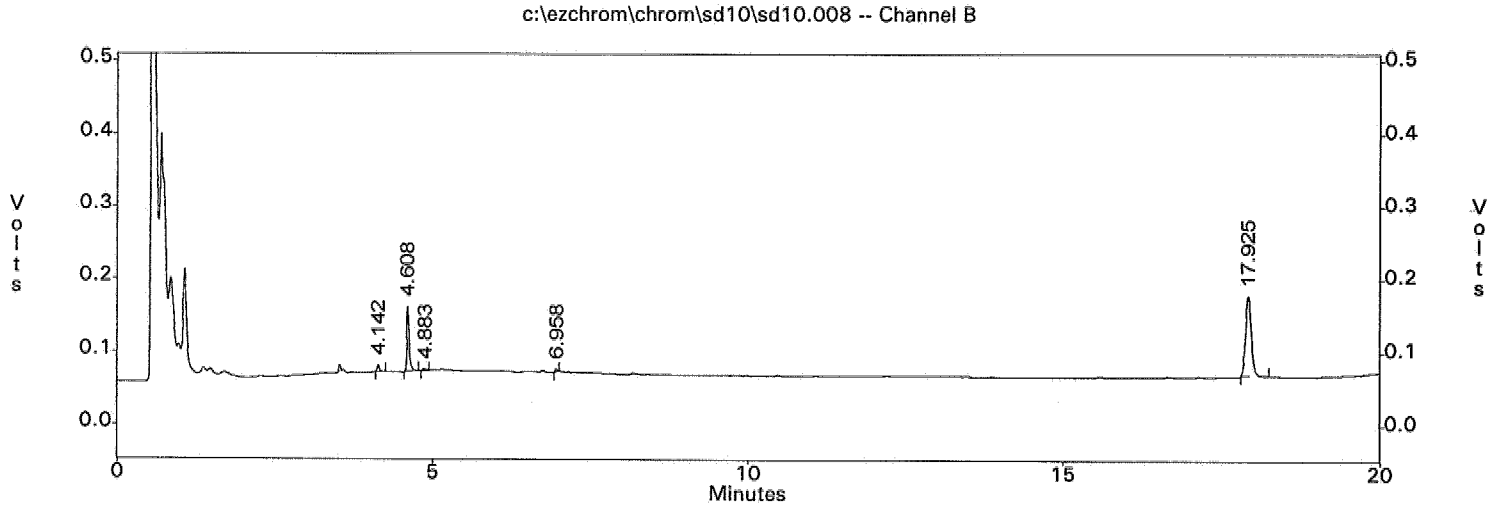


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.008
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CPC022WB
Acquired : Apr 10, 2006 13:20:58
Printed : Apr 10, 2006 14:43:44
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.608	239693	9286.2	25.8
--	Hexachlorobenzene	5.283	0	0.0	0.0
--	alpha-BHC	5.500	0	0.0	0.0
--	gamma-BHC	5.942	0	0.0	0.0
--	beta-BHC	6.092	0	0.0	0.0
--	delta-BHC	6.417	0	0.0	0.0
--	Heptachlor	6.433	0	0.0	0.0
--	Aldrin	6.775	0	0.0	0.0
--	Heptachlor Epoxide	7.417	0	0.0	0.0
--	gamma-Chlordane	7.650	0	0.0	0.0
--	alpha-Chlordane	7.850	0	0.0	0.0
--	Endosulfan I	7.900	0	0.0	0.0
--	DDE	8.167	0	0.0	0.0
--	Dieldrin	8.308	0	0.0	0.0
--	Endrin	8.808	0	0.0	0.0
--	DDD	9.200	0	0.0	0.0
--	Endosulfan II	9.233	0	0.0	0.0
--	DDT	9.867	0	0.0	0.0
--	Endrin Aldehyde	10.000	0	0.0	0.0
--	Endosulfan Sulfate	10.708	0	0.0	0.0
--	Mirex	11.933	0	0.0	0.0
--	Methoxychlor	11.950	0	0.0	0.0
--	Endrin Ketone	12.192	0	0.0	0.0
5	DCB	17.925	693731	16659.5	41.6
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

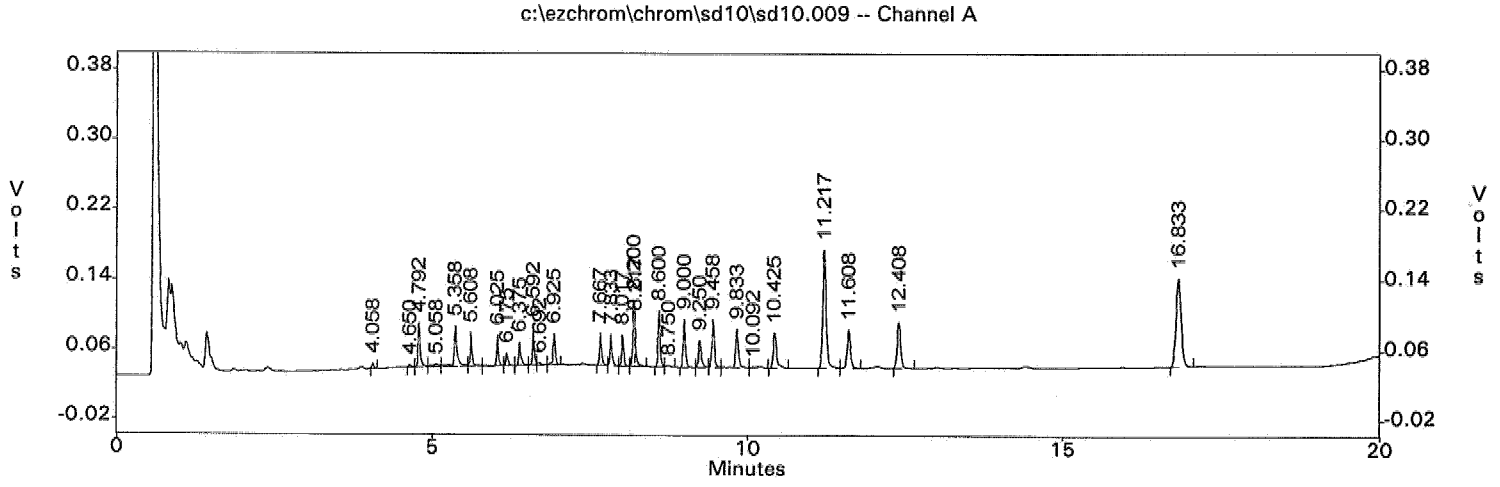


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.009
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CPC022WL
Acquired : Apr 10, 2006 13:47:18
Printed : Apr 10, 2006 14:45:25
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
3	TCX	4.792	127859	4651.2	27.5
5	Hexachlorobenzene	5.358	160000	7654.5	20.9
6	alpha-BHC	5.608	81744	4718.6	17.3
7	gamma-BHC	6.025	73404	4577.1	16.0
8	beta-BHC	6.175	37058	2251.3	16.5
9	delta-BHC	6.375	69299	4546.6	15.2
10	Heptachlor	6.592	92732	5673.9	16.3
12	Aldrin	6.925	82314	4104.3	20.1
13	Heptachlor Epoxide	7.667	90125	4737.9	19.0
14	gamma-Chlordane	7.833	87114	4582.0	19.0
15	alpha-Chlordane	8.017	84681	4899.1	17.3
16	DDE	8.200	164798	4499.6	36.6
17	Endosulfan I	8.217	61655	4799.1	12.8
18	Dieldrin	8.600	159291	4768.4	33.4
20	Endrin	9.000	149976	3501.3	42.8
21	DDD	9.250	103464	3323.1	31.1
22	Endosulfan II	9.458	164691	4435.5	37.1
23	DDT	9.833	145921	4201.4	34.7
25	Endrin Aldehyde	10.425	147210	4184.1	35.2
--	Mirex	11.200	0	0.0	0.0
26	Methoxychlor	11.217	546429	2466.7	221.5
27	Endosulfan Sulfate	11.608	166103	3968.4	41.9
28	Endrin Ketone	12.408	202424	4326.9	46.8
29	DCB	16.833	582975	7628.6	76.4
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

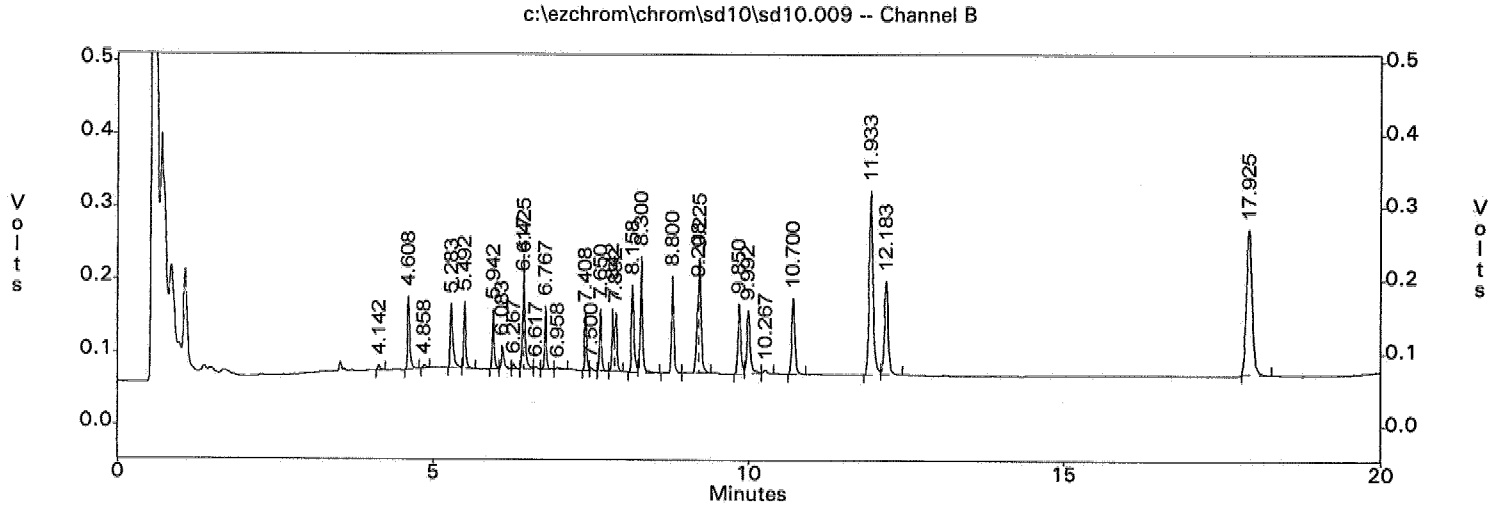


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.009
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CPC022WL
Acquired : Apr 10, 2006 13:47:18
Printed : Apr 10, 2006 14:45:25
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.608	268054	9286.2	28.9
4	Hexachlorobenzene	5.283	278329	16480.6	16.9
5	alpha-BHC	5.492	200710	11413.9	17.6
6	gamma-BHC	5.942	180935	10790.5	16.8
7	beta-BHC	6.083	95919	4742.8	20.2
9	delta-BHC	6.417	172544	10503.0	16.4
10	Heptachlor	6.425	223676	12376.0	18.1
12	Aldrin	6.767	184839	9456.0	19.5
14	Heptachlor Epoxide	7.408	180668	10303.2	17.5
16	gamma-Chlordane	7.650	191440	10156.1	18.8
17	alpha-Chlordane	7.842	195680	11130.5	17.6
18	Endosulfan I	7.892	190215	11000.8	17.3
19	DDE	8.158	343987	9384.4	36.7
20	Dieldrin	8.300	406263	10685.9	38.0
21	Endrin	8.800	366630	7892.7	46.5
22	DDD	9.208	275819	7117.7	38.8
23	Endosulfan II	9.225	384596	9951.8	38.6
24	DDT	9.850	329864	9053.6	36.4
25	Endrin Aldehyde	9.992	340115	8639.9	39.4
27	Endosulfan Sulfate	10.700	386561	8891.8	43.5
--	Mirex	11.900	0	0.0	0.0
28	Methoxychlor	11.933	1138662	5002.2	227.6
29	Endrin Ketone	12.183	544880	9990.3	54.5
30	DCB	17.925	1282004	16659.5	77.0
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

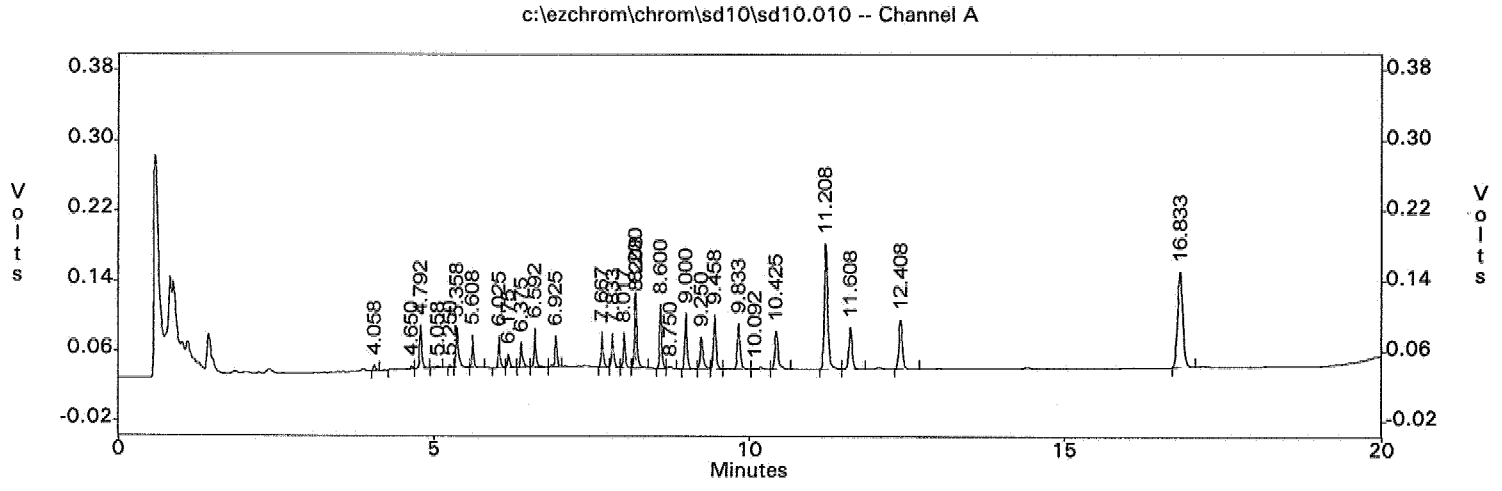


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.010
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CPC022WC
Acquired : Apr 10, 2006 14:13:36
Printed : Apr 10, 2006 14:47:12
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
3	TCX	4.792	124206	4651.2	26.7
6	Hexachlorobenzene	5.358	130625	7654.5	17.1
7	alpha-BHC	5.608	75833	4718.6	16.1
8	gamma-BHC	6.025	73758	4577.1	16.1
9	beta-BHC	6.175	39208	2251.3	17.4
10	delta-BHC	6.375	74405	4546.6	16.4
11	Heptachlor	6.592	98196	5673.9	17.3
12	Aldrin	6.925	78367	4104.3	19.1
13	Heptachlor Epoxide	7.667	98443	4737.9	20.8
14	gamma-Chlordane	7.833	96004	4582.0	21.0
15	alpha-Chlordane	8.017	93896	4899.1	19.2
16	DDE	8.200	155048	4499.6	34.5
17	Endosulfan I	8.208	100114	4799.1	20.9
18	Dieldrin	8.600	182170	4768.4	38.2
20	Endrin	9.000	171432	3501.3	49.0
21	DDD	9.250	122096	3323.1	36.7
22	Endosulfan II	9.458	188567	4435.5	42.5
23	DDT	9.833	171803	4201.4	40.9
25	Endrin Aldehyde	10.425	158246	4184.1	37.8
--	Mirex	11.200	0	0.0	0.0
26	Methoxychlor	11.208	585287	2466.7	237.3
27	Endosulfan Sulfate	11.608	182548	3968.4	46.0
28	Endrin Ketone	12.408	221114	4326.9	51.1
29	DCB	16.833	631805	7628.6	82.8
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

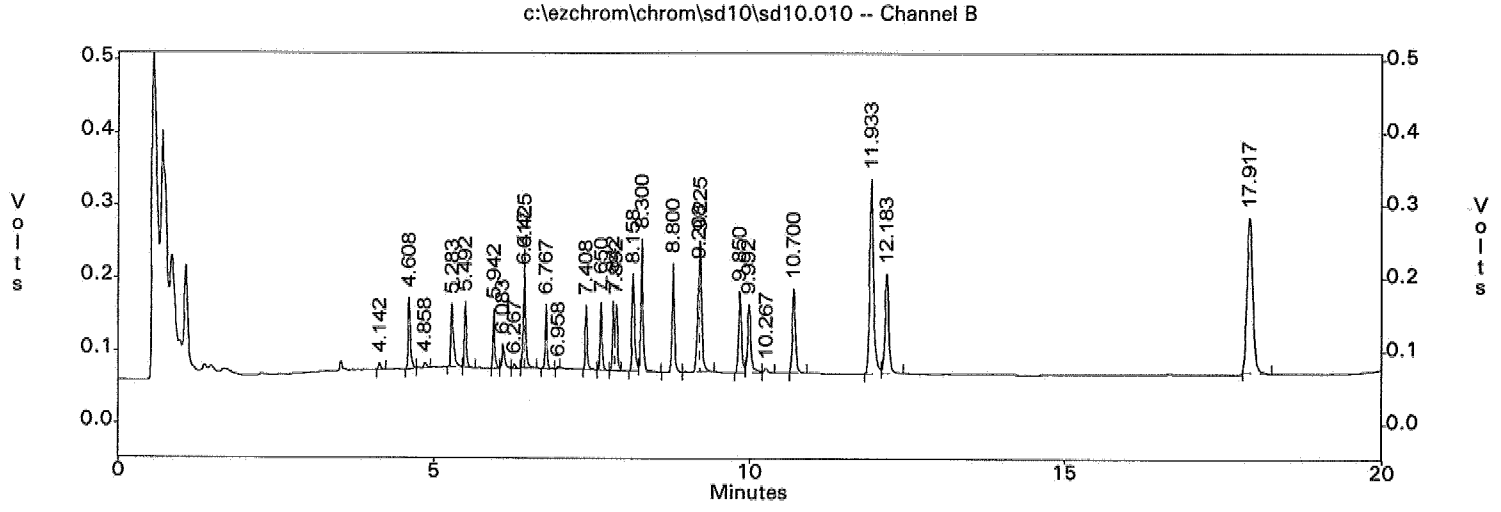


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.010
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CPC022WC
Acquired : Apr 10, 2006 14:13:36
Printed : Apr 10, 2006 14:47:12
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.608	265760	9286.2	28.6
4	Hexachlorobenzene	5.283	267512	16480.6	16.2
5	alpha-BHC	5.492	194681	11413.9	17.1
6	gamma-BHC	5.942	180258	10790.5	16.7
7	beta-BHC	6.083	98335	4742.8	20.7
9	delta-BHC	6.417	184238	10503.0	17.5
10	Heptachlor	6.425	212397	12376.0	17.2
11	Aldrin	6.767	180667	9456.0	19.1
13	Heptachlor Epoxide	7.408	204288	10303.2	19.8
14	gamma-Chlordane	7.650	214783	10156.1	21.1
15	alpha-Chlordane	7.842	196114	11130.5	17.6
16	Endosulfan I	7.892	229689	11000.8	20.9
17	DDE	8.158	389539	9384.4	41.5
18	Dieldrin	8.300	464741	10685.9	43.5
19	Endrin	8.800	418042	7892.7	53.0
20	DDD	9.208	327846	7117.7	46.1
21	Endosulfan II	9.225	433266	9951.8	43.5
22	DDT	9.850	383403	9053.6	42.3
23	Endrin Aldehyde	9.992	363893	8639.9	42.1
25	Endosulfan Sulfate	10.700	420751	8891.8	47.3
--	Mirex	11.900	0	0.0	0.0
26	Methoxychlor	11.933	1217831	5002.2	243.5
27	Endrin Ketone	12.183	586006	9990.3	58.7
28	DCB	17.917	1375016	16659.5	82.5
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



INITIAL CALIBRATIONS

PEM PEST BREAKDOWN CALCULATION
METHOD 8081

Lab Name	:	EMAX	
Instrument ID	:	GCTO08 HP-5890	
GC Column	:	RTX-CLPEST	RTX-CLPESTII
Column size ID	:	.32MMX30M	.32MMX30M
PEM LFID & Datetime	:	SB07017A SB07017B	02/08/06 23:19

Base on AREA

	AREA				% Breakdown				
LFID	DDD	DDE	DDT	TOTAL	DDD	DDE	TOTAL	QL	QCLIMIT
SB07017A	0.0	4430.0	422566.0	426996.0	0.00	1.04	1.04		15
SB07017B	5773.0	8992.0	918464.0	933229.0	0.62	0.96	1.58		15
LFID	ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	TOTAL	ENDRIN ALDEHYDE	ENDRIN KETONE	TOTAL	QL	QCLIMIT
SB07017A	195196.0	20851.0	13216.0	229263.0	9.09	5.76	14.86		15
SB07017B	431106.0	40404.0	35099.0	506609.0	7.98	6.93	14.90		15

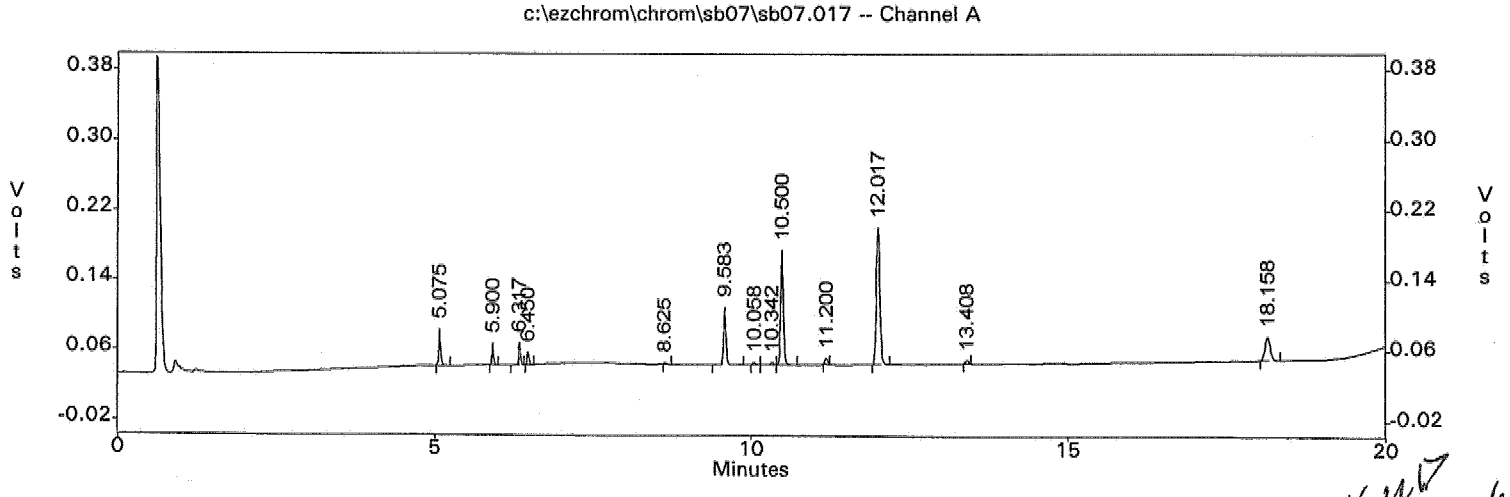
EMP
2/10/06

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.017
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : PE08B07001
Acquired : Feb 08, 2006 23:19:00
Printed : Feb 09, 2006 13:36:15
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	89675	4651.2	19.3
--	Hexachlorobenzene	5.642	0	0.0	0.0
2	alpha-BHC	5.900	45024	4718.6	9.5
3	gamma-BHC	6.317	45894	4577.1	10.0
4	beta-BHC	6.450	29498	2251.3	13.1
--	delta-BHC	6.650	0	0.0	0.0
--	Heptachlor	6.883	0	0.0	0.0
--	Aldrin	7.225	0	0.0	0.0
--	Heptachlor Epoxide	8.050	0	0.0	0.0
--	gamma-Chlordane	8.242	0	0.0	0.0
--	alpha-Chlordane	8.450	0	0.0	0.0
5	DDE	8.625	4430	4499.6	1.0
--	Endosulfan I	8.675	0	0.0	0.0
--	Dieldrin	9.125	0	0.0	0.0
6	Endrin	9.583	195196	3501.3	55.7
--	DDD	9.833	0	0.0	0.0
--	Endosulfan II	10.100	0	0.0	0.0
9	DDT	10.500	422566	4201.4	100.6
10	Endrin Aldehyde	11.200	20851	4184.1	5.0
--	Mirex	12.008	0	0.0	0.0
11	Methoxychlor	12.017	626095	2466.7	253.8
--	Endosulfan Sulfate	12.525	0	0.0	0.0
12	Endrin Ketone	13.408	13216	4326.9	3.1
13	DCB	18.158	151263	7628.6	19.8
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



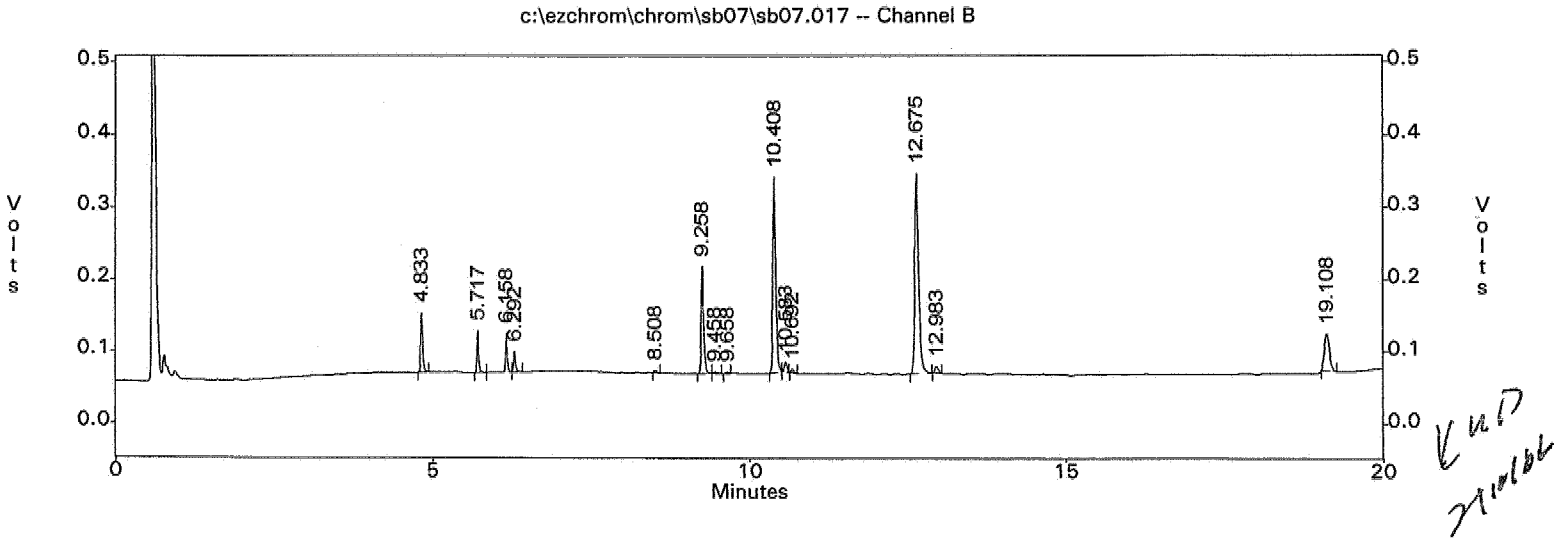
5155

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.017
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : PE08B07001
Acquired : Feb 08, 2006 23:19:00
Printed : Feb 09, 2006 13:36:15
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	181532	9286.2	19.5
--	Hexachlorobenzene	5.500	0	0.0	0.0
2	alpha-BHC	5.717	112210	11413.9	9.8
3	gamma-BHC	6.158	112892	10790.5	10.5
4	beta-BHC	6.292	62219	4742.8	13.1
--	delta-BHC	6.617	0	0.0	0.0
--	Heptachlor	6.658	0	0.0	0.0
--	Aldrin	7.008	0	0.0	0.0
--	Heptachlor Epoxide	7.700	0	0.0	0.0
--	gamma-Chlordane	7.958	0	0.0	0.0
--	alpha-Chlordane	8.175	0	0.0	0.0
--	Endosulfan I	8.242	0	0.0	0.0
5	DDE	8.508	8992	9384.4	1.0
--	Dieldrin	8.700	0	0.0	0.0
6	Endrin	9.258	431106	7892.7	54.6
8	DDD	9.658	5773	7117.7	0.8
--	Endosulfan II	9.733	0	0.0	0.0
9	DDT	10.408	918464	9053.6	101.4
10	Endrin Aldehyde	10.583	40404	8639.9	4.7
--	Endosulfan Sulfate	11.358	0	0.0	0.0
12	Methoxychlor	12.675	1248536	5002.2	249.6
--	Mirex	12.708	0	0.0	0.0
13	Endrin Ketone	12.983	35099	9990.3	3.5
14	DCB	19.108	292311	16659.5	17.5
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



5156

INITIAL CALIBRATION
METHOD 8081

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
LFID & Datetime: sb07018A 02/08/06 23:46 sb07019A 02/09/06 00:14
LFID & Datetime: sb07020A 02/09/06 00:42 sb07021A 02/09/06 01:10
LFID & Datetime: sb07022A 02/09/06 01:38 sb07023A 02/09/06 02:05
LFID & Datetime: sb07024A 02/09/06 02:33 sb07025A 02/09/06 03:01
LFID & Datetime: sb07026A 02/09/06 03:29 sb07027A 02/09/06 03:57
LFID & Datetime: sb07028A 02/09/06 04:24 sb07029A 02/09/06 04:52
CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.00X	4.00X	8.00X	16.00X	24.00X	MEAN	%RSD
Hexachlorobenzene	2.50	7954.00	8040.40	7939.80	7576.20	7317.15	7099.55	7654.516	5.1
alpha-BHC	2.50	4366.40	4348.60	4454.10	4677.30	5122.42	5342.62	4718.574	8.9
gamma-BHC	2.50	4316.00	4284.00	4363.40	4529.15	4879.25	5090.58	4577.064	7.3
beta-BHC	2.50	2165.20	2269.40	2275.60	2244.45	2273.00	2279.87	2251.253	2.0
Heptachlor	2.50	5662.00	5716.20	5509.70	5625.05	5748.63	5782.10	5673.946	1.7
delta-BHC	2.50	4247.60	4100.80	4424.60	4515.25	4896.58	5094.62	4546.574	8.4
Aldrin	2.50	3863.20	3993.60	4087.60	4070.75	4255.98	4354.43	4104.260	4.3
Heptachlor Epoxide	2.50	4688.40	4735.80	4773.90	4685.65	4769.60	4774.08	4737.906	0.9
gamma-Chlordane	2.50	4516.80	4595.20	4613.60	4524.30	4615.42	4626.97	4582.048	1.1
alpha-Chlordane	2.50	4759.60	5099.60	4999.90	4814.65	4863.58	4857.00	4899.054	2.6
Endosulfan I	2.50	4891.60	4711.60	4680.60	4722.60	4864.90	4923.35	4799.108	2.2
DDE	5.00	5001.80	4392.20	4351.55	4281.85	4453.96	4516.35	4499.619	5.8
Dieldrin	5.00	4559.40	4578.70	4673.30	4744.67	4984.17	5070.38	4768.438	4.5
Endrin	5.00	3605.00	3442.90	3425.15	3456.52	3518.88	3559.48	3501.321	2.0
DDD	5.00	3285.80	3165.80	3212.75	3235.05	3467.23	3571.95	3323.096	4.8
Endosulfan II	5.00	4174.60	4383.10	4476.80	4466.20	4555.64	4556.96	4435.549	3.2
DDT	5.00	4035.80	3992.90	4116.80	4170.20	4400.52	4492.37	4201.432	4.8
Endrin Aldehyde	5.00	4023.60	4151.50	4312.05	4202.08	4221.21	4194.22	4184.109	2.3
Endosulfan Sulfate	5.00	3515.00	3831.70	3984.85	4060.95	4202.61	4215.45	3968.427	6.7
Methoxychlor	25.00	2633.76	2483.98	2475.96	2433.40	2416.54	2356.84	2466.747	3.8
Mirex	5.00	6234.40	6160.20	5985.70	5620.52	5378.88	5154.46	5755.693	7.6
Endrin Ketone	5.00	3828.40	4251.40	4343.95	4358.25	4560.17	4619.51	4326.947	6.5
SURROGATE	X	1.00X	2.00X	4.00X	8.00X	16.00X	24.00X	MEAN	%RSD
TCX	2.50	4985.60	4710.60	4528.20	4539.70	4574.65	4568.50	4651.208	3.8
DCB	5.00	7570.20	7819.60	7811.45	7748.80	7520.04	7301.78	7628.646	2.7

KMP 2/10/06

INITIAL CALIBRATION
METHOD 8081

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
LFID & Datetime: SB07018B 02/08/06 23:46 SB07019B 02/09/06 00:14
LFID & Datetime: SB07020B 02/09/06 00:42 SB07021B 02/09/06 01:10
LFID & Datetime: SB07022B 02/09/06 01:38 SB07023B 02/09/06 02:05
LFID & Datetime: SB07024B 02/09/06 02:33 SB07025B 02/09/06 03:01
LFID & Datetime: SB07026B 02/09/06 03:29 SB07027B 02/09/06 03:57
LFID & Datetime: SB07028B 02/09/06 04:24 SB07029B 02/09/06 04:52
CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.00X	4.00X	8.00X	16.00X	24.00X	MEAN	%RSD
Hexachlorobenzene	2.50	18270	18107	17258	15974	14975	14300	16480.6	10.1
alpha-BHC	2.50	10485	10355	10964	11622	12424	12633	11413.9	8.5
gamma-BHC	2.50	10292	10178	10496	10862	11429	11486	10790.5	5.3
beta-BHC	2.50	4480.80	4820.60	4845.90	4817.95	4778.80	4712.82	4742.811	2.9
Heptachlor	2.50	13232	12460	12189	12065	12213	12097	12376.0	3.6
delta-BHC	2.50	8681	9224	9714	11978	11536	11885	10503.0	13.9
Aldrin	2.50	8775.20	9121.00	9239.60	9661.20	9826.95	10112.27	9456.036	5.3
Heptachlor Epoxide	2.50	10183	10286	10363	10283	10429	10275	10303.2	0.8
gamma-Chlordane	2.50	10346	10550	10164	9933	9987	9956	10156.1	2.5
alpha-Chlordane	2.50	12854	11516	10949	10582	10499	10384	11130.5	8.4
Endosulfan I	2.50	11808	11063	10750	10750	10847	10787	11000.8	3.7
DDE	5.00	8416.60	8713.90	9100.90	9966.72	10070.71	10037.41	9384.374	7.8
Dieldrin	5.00	10446	10178	10387	10724	11161	11219	10685.9	4.0
Endrin	5.00	7921.00	7606.30	7723.75	7898.27	8061.24	8145.88	7892.740	2.6
DDD	5.00	6046.80	6701.70	6949.10	7205.15	7759.67	8043.88	7117.717	10.2
Endosulfan II	5.00	9769.80	9889.40	10031.45	9892.70	10127.83	9999.39	9951.761	1.3
DDT	5.00	8409.00	8449.30	8822.40	9167.35	9662.34	9811.08	9053.577	6.6
Endrin Aldehyde	5.00	8403.00	8764.10	8888.65	8639.97	8630.22	8513.40	8639.892	2.0
Endosulfan Sulfate	5.00	8106.20	8699.50	9063.05	9031.55	9240.71	9209.59	8891.769	4.8
Methoxychlor	25.00	5333.40	5093.48	5061.46	4914.22	4850.43	4760.38	5002.228	4.1
Mirex	5.00	12167	12235	11924	11106	10534	10058	11337.3	8.1
Endrin Ketone	5.00	9685.00	9814.90	9954.15	9993.28	10256.78	10237.43	9990.256	2.3
SURROGATE	X	1.00X	2.00X	4.00X	8.00X	16.00X	24.00X	MEAN	%RSD
TCX	2.50	9680.80	9391.60	9263.60	9187.35	9168.45	9025.50	9286.216	2.5
DCB	5.00	18098	17504	17071	16850	15522	14912	16659.5	7.3

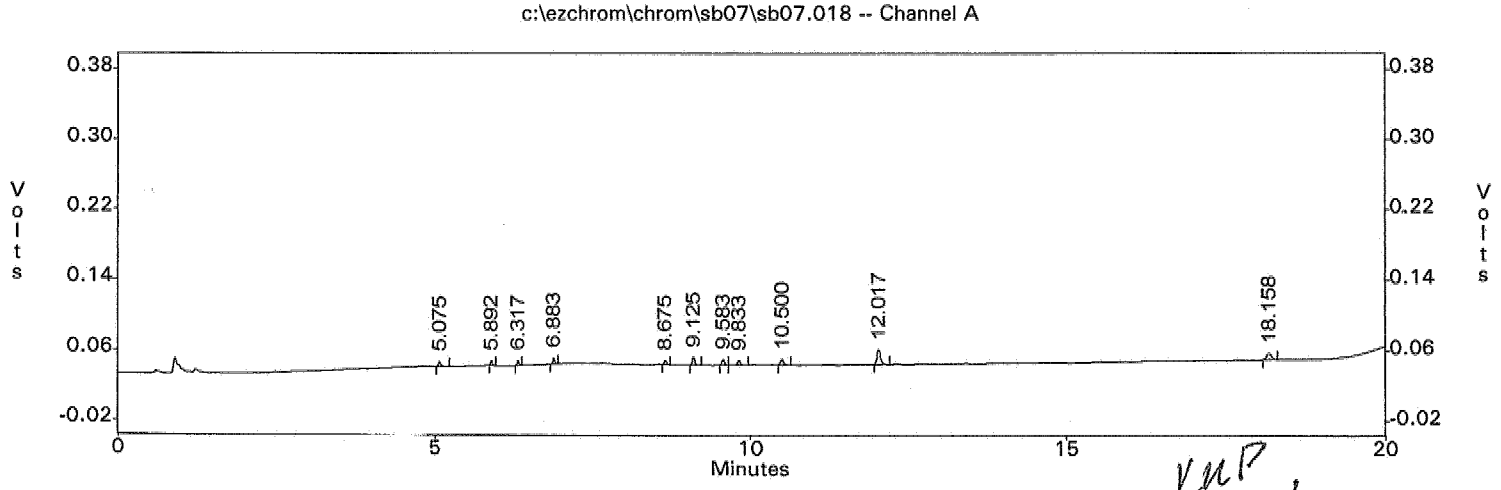
5158

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.018
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 1A
Acquired : Feb 08, 2006 23:46:47
Printed : Feb 09, 2006 13:27:18
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	12464	4651.2	2.5
--	Hexachlorobenzene	5.642	0	0.0	0.0
2	alpha-BHC	5.892	10916	4718.6	2.5
3	gamma-BHC	6.317	10790	4577.1	2.5
--	beta-BHC	6.450	0	0.0	0.0
--	delta-BHC	6.650	0	0.0	0.0
4	Heptachlor	6.883	14155	5673.9	2.5
--	Aldrin	7.225	0	0.0	0.0
--	Heptachlor Epoxide	8.050	0	0.0	0.0
--	gamma-Chlordane	8.242	0	0.0	0.0
--	alpha-Chlordane	8.450	0	0.0	0.0
--	DDE	8.633	0	0.0	0.0
5	Endosulfan I	8.675	12229	4799.1	2.5
6	Dieldrin	9.125	22797 ✓	4768.4	5.0
7	Endrin	9.583	18025	3501.3	5.0
8	DDD	9.833	16429	3323.1	5.0
--	Endosulfan II	10.100	0	0.0	0.0
9	DDT	10.500	20179	4201.4	5.0
--	Endrin Aldehyde	11.200	0	0.0	0.0
--	Mirex	12.008	0	0.0	0.0
10	Methoxychlor	12.017	65844	2466.7	25.0
--	Endosulfan Sulfate	12.525	0	0.0	0.0
--	Endrin Ketone	13.408	0	0.0	0.0
11	DCB	18.158	37851 ✓	7628.6	5.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



2/11/06

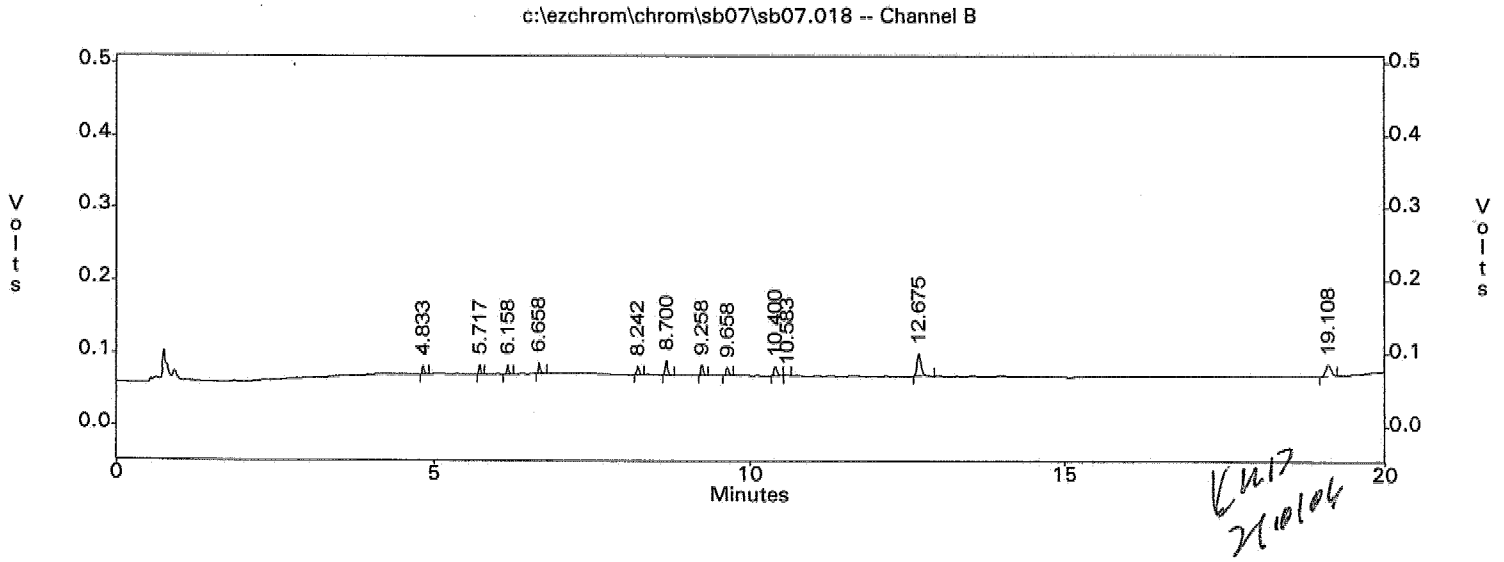
5159

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.018
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 1A
Acquired : Feb 08, 2006 23:46:47
Printed : Feb 09, 2006 13:27:18
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	24202	9286.2	2.5
--	Hexachlorobenzene	5.500	0	0.0	0.0
2	alpha-BHC	5.717	26212	11413.9	2.5
3	gamma-BHC	6.158	25730	10790.5	2.5
--	beta-BHC	6.292	0	0.0	0.0
--	delta-BHC	6.617	0	0.0	0.0
4	Heptachlor	6.658	33080	12376.0	2.5
--	Aldrin	7.008	0	0.0	0.0
--	Heptachlor Epoxide	7.700	0	0.0	0.0
--	gamma-Chlordane	7.958	0	0.0	0.0
--	alpha-Chlordane	8.175	0	0.0	0.0
5	Endosulfan I	8.242	29519	11000.8	2.5
--	DDE	8.508	0	0.0	0.0
6	Dieldrin	8.700	52232	10685.9	5.0
7	Endrin	9.258	39605	7892.7	5.0
8	DDD	9.658	30234	7117.7	5.0
--	Endosulfan II	9.733	0	0.0	0.0
9	DDT	10.400	42045	9053.6	5.0
10	Endrin Aldehyde	10.583	4575	8639.9	-1.0
--	Endosulfan Sulfate	11.358	0	0.0	0.0
11	Methoxychlor	12.675	133335	5002.2	25.0
--	Mirex	12.708	0	0.0	0.0
--	Endrin Ketone	12.992	0	0.0	0.0
12	DCB	19.108	90490	16659.5	5.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



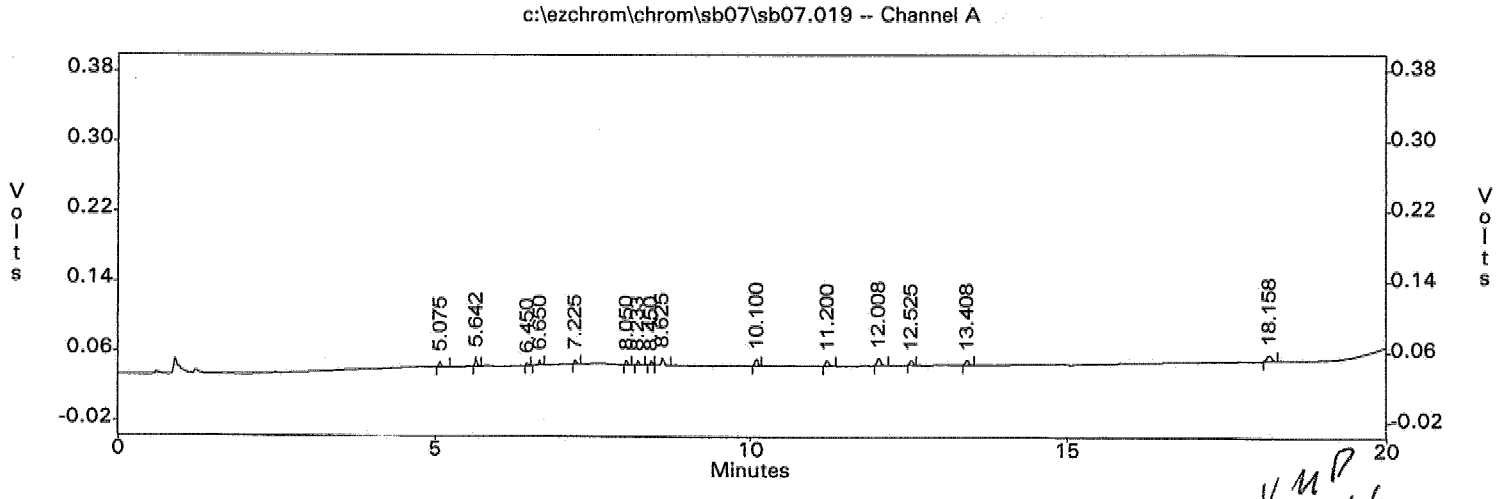
5160

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.019
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 1B
Acquired : Feb 09, 2006 00:14:37
Printed : Feb 09, 2006 13:27:28
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	12167	4651.2	-1.0
2	Hexachlorobenzene	5.642	19885	7654.5	2.5
--	alpha-BHC	5.892	0	0.0	0.0
--	gamma-BHC	6.317	0	0.0	0.0
3	beta-BHC	6.450	5413	2251.3	2.5
4	delta-BHC	6.650	10619	4546.6	2.5
--	Heptachlor	6.883	0	0.0	0.0
5	Aldrin	7.225	9658	4104.3	2.5
6	Heptachlor Epoxide	8.050	11721	4737.9	2.5
7	gamma-Chlordane	8.233	11292	4582.0	2.5
8	alpha-Chlordane	8.450	11899	4899.1	2.5
9	DDE	8.625	25009	4499.6	5.0
--	Endosulfan I	8.675	0	0.0	0.0
--	Dieldrin	9.125	0	0.0	0.0
--	Endrin	9.583	0	0.0	0.0
--	DDD	9.833	0	0.0	0.0
10	Endosulfan II	10.100	20873	4435.5	5.0
--	DDT	10.500	0	0.0	0.0
11	Endrin Aldehyde	11.200	20118	4184.1	5.0
12	Mirex	12.008	31172	5755.7	5.0
--	Methoxychlor	12.017	0	0.0	0.0
13	Endosulfan Sulfate	12.525	17575	3968.4	5.0
14	Endrin Ketone	13.408	19142	4326.9	5.0
15	DCB	18.158	36031	7628.6	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



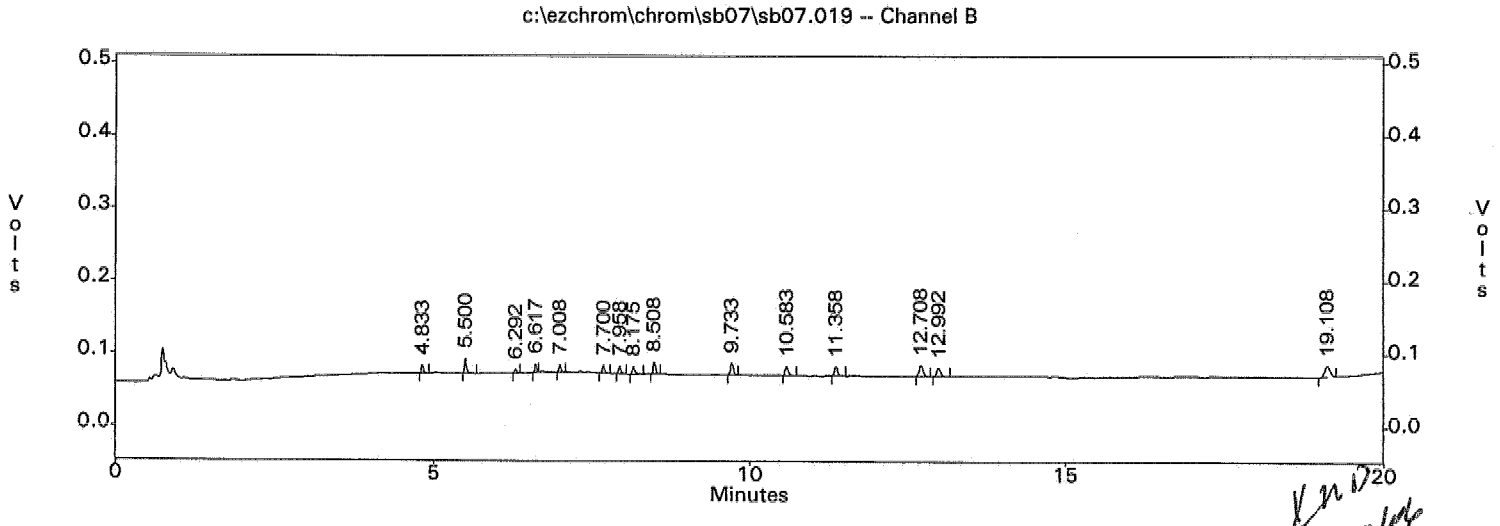
5161

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.019
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 1B
Acquired : Feb 09, 2006 00:14:37
Printed : Feb 09, 2006 13:27:28
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	23704	9286.2	-1.0
2	Hexachlorobenzene	5.500	45674	16480.6	2.5
--	alpha-BHC	5.717	0	0.0	0.0
--	gamma-BHC	6.158	0	0.0	0.0
3	beta-BHC	6.292	11202	4742.8	2.5
4	delta-BHC	6.617	21703	10503.0	2.5
--	Heptachlor	6.658	0	0.0	0.0
5	Aldrin	7.008	21938	9456.0	2.5
6	Heptachlor Epoxide	7.700	25458	10303.2	2.5
7	gamma-Chlordane	7.958	25866	10156.1	2.5
8	alpha-Chlordane	8.175	32135	11130.5	2.5
--	Endosulfan I	8.242	0	0.0	0.0
9	DDE	8.508	42083	9384.4	5.0
--	Dieldrin	8.700	0	0.0	0.0
--	Endrin	9.258	0	0.0	0.0
--	DDD	9.658	0	0.0	0.0
10	Endosulfan II	9.733	48849	9951.8	5.0
--	DDT	10.400	0	0.0	0.0
11	Endrin Aldehyde	10.583	42015	8639.9	5.0
12	Endosulfan Sulfate	11.358	40531	8891.8	5.0
--	Methoxychlor	12.675	0	0.0	0.0
13	Mirex	12.708	60836	11337.3	5.0
14	Endrin Ketone	12.992	48425	9990.3	5.0
15	DCB	19.108	83611	16659.5	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



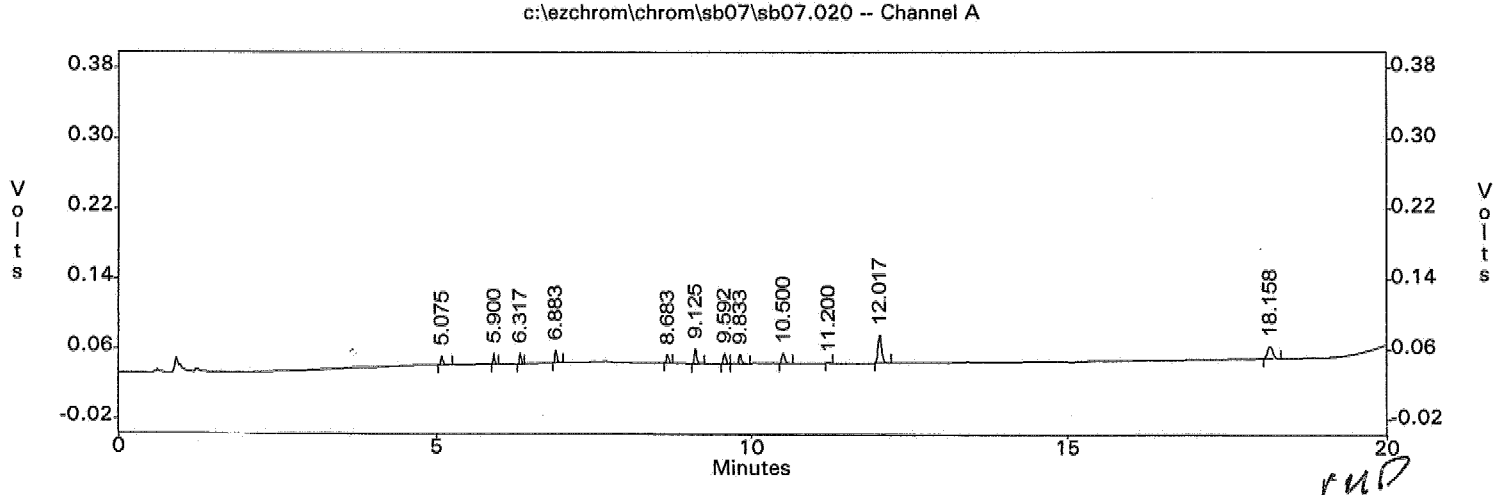
5162

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.020
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 2A
Acquired : Feb 09, 2006 00:42:25
Printed : Feb 09, 2006 13:27:42
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	23553	4651.2	5.0
--	Hexachlorobenzene	5.642	0	0.0	0.0
2	alpha-BHC	5.900	21743	4718.6	5.0
3	gamma-BHC	6.317	21420	4577.1	5.0
--	beta-BHC	6.450	0	0.0	0.0
--	delta-BHC	6.650	0	0.0	0.0
4	Heptachlor	6.883	28581	5673.9	5.0
--	Aldrin	7.225	0	0.0	0.0
--	Heptachlor Epoxide	8.050	0	0.0	0.0
--	gamma-Chlordane	8.233	0	0.0	0.0
--	alpha-Chlordane	8.450	0	0.0	0.0
--	DDE	8.625	0	0.0	0.0
5	Endosulfan I	8.683	23558	4799.1	5.0
6	Dieldrin	9.125	45787 ✓	4768.4	10.0
7	Endrin	9.592	34429 ✓	3501.3	10.0
8	DDD	9.833	31658 ✓	3323.1	10.0
--	Endosulfan II	10.100	0	0.0	0.0
9	DDT	10.500	39929 ✓	4201.4	10.0
10	Endrin Aldehyde	11.200	3968	4184.1	-1.0
--	Mirex	12.008	0	0.0	0.0
11	Methoxychlor	12.017	124199	2466.7	50.0
--	Endosulfan Sulfate	12.525	0	0.0	0.0
--	Endrin Ketone	13.408	0	0.0	0.0
12	DCB	18.158	78196	7628.6	10.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



CMD 2/10/06

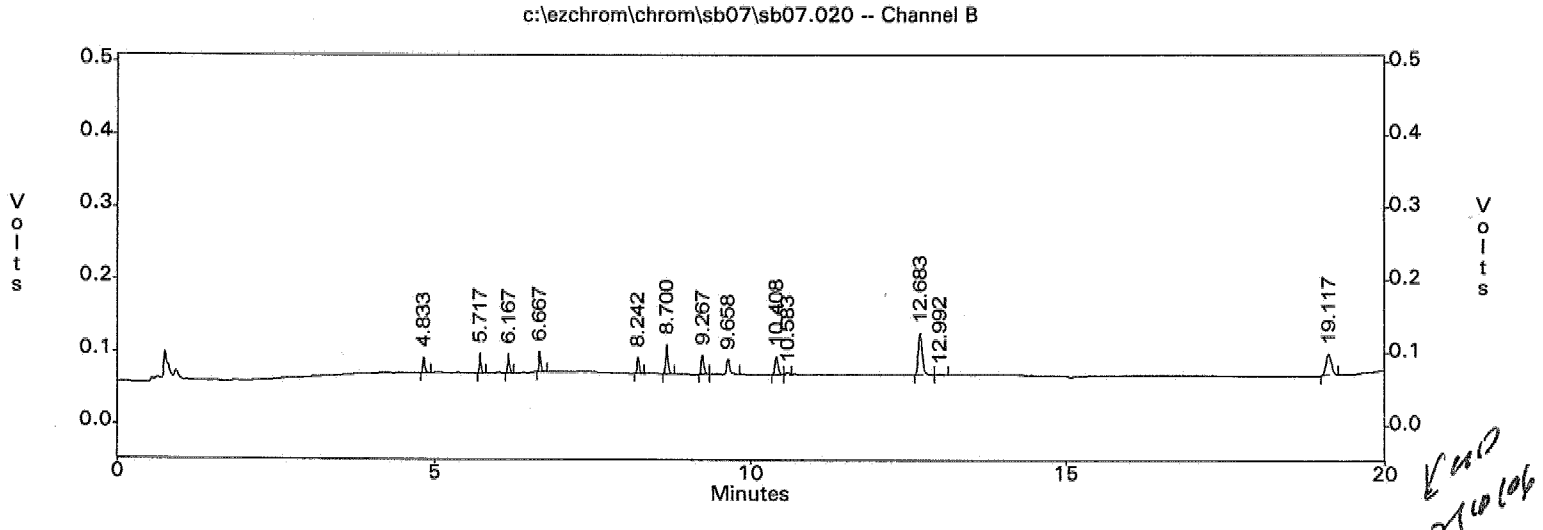
5163

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.020
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 2A
Acquired : Feb 09, 2006 00:42:25
Printed : Feb 09, 2006 13:27:42
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	46958	9286.2	5.0
--	Hexachlorobenzene	5.500	0	0.0	0.0
2	alpha-BHC	5.717	51775	11413.9	5.0
3	gamma-BHC	6.167	50889	10790.5	5.0
--	beta-BHC	6.292	0	0.0	0.0
--	delta-BHC	6.617	0	0.0	0.0
4	Heptachlor	6.667	62299	12376.0	5.0
--	Aldrin	7.008	0	0.0	0.0
--	Heptachlor Epoxide	7.700	0	0.0	0.0
--	gamma-Chlordane	7.958	0	0.0	0.0
--	alpha-Chlordane	8.175	0	0.0	0.0
5	Endosulfan I	8.242	55316	11000.8	5.0
--	DDE	8.508	0	0.0	0.0
6	Dieldrin	8.700	101779	10685.9	10.0
7	Endrin	9.267	76063	7892.7	10.0
8	DDD	9.658	67017	7117.7	10.0
--	Endosulfan II	9.733	0	0.0	0.0
9	DDT	10.408	84493	9053.6	10.0
10	Endrin Aldehyde	10.583	10274	8639.9	-1.0
--	Endosulfan Sulfate	11.358	0	0.0	0.0
11	Methoxychlor	12.683	254674	5002.2	50.0
--	Mirex	12.708	0	0.0	0.0
12	Endrin Ketone	12.992	8927	9990.3	-1.0
13	DCB	19.117	175043	16659.5	10.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



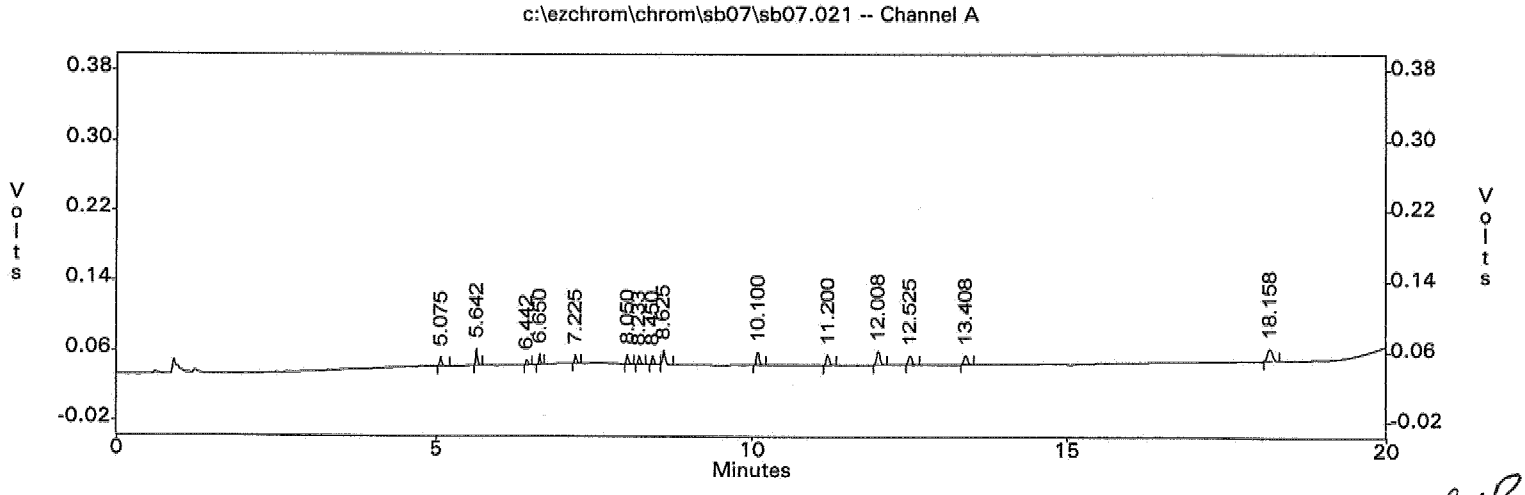
2/10/06

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.021
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 2B
Acquired : Feb 09, 2006 01:10:17
Printed : Feb 09, 2006 13:27:57
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	23734	4651.2	-1.0
2	Hexachlorobenzene	5.642	40202	7654.5	5.0
--	alpha-BHC	5.900	0	0.0	0.0
--	gamma-BHC	6.317	0	0.0	0.0
3	beta-BHC	6.442	11347	2251.3	5.0
4	delta-BHC	6.650	20504	4546.6	5.0
--	Heptachlor	6.883	0	0.0	0.0
5	Aldrin	7.225	19968	4104.3	5.0
6	Heptachlor Epoxide	8.050	23679	4737.9	5.0
7	gamma-Chlordane	8.233	22976	4582.0	5.0
8	alpha-Chlordane	8.450	25498	4899.1	5.0
9	DDE	8.625	43922	4499.6	10.0
--	Endosulfan I	8.683	0	0.0	0.0
--	Dieldrin	9.125	0	0.0	0.0
--	Endrin	9.592	0	0.0	0.0
--	DDD	9.833	0	0.0	0.0
10	Endosulfan II	10.100	43831 ✓	4435.5	10.0
--	DDT	10.500	0	0.0	0.0
11	Endrin Aldehyde	11.200	41515 ✓	4184.1	10.0
12	Mirex	12.008	61602	5755.7	10.0
--	Methoxychlor	12.017	0	0.0	0.0
13	Endosulfan Sulfate	12.525	38317	3968.4	10.0
14	Endrin Ketone	13.408	42514	4326.9	10.0
15	DCB	18.158	74709	7628.6	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



CP
2/10/06

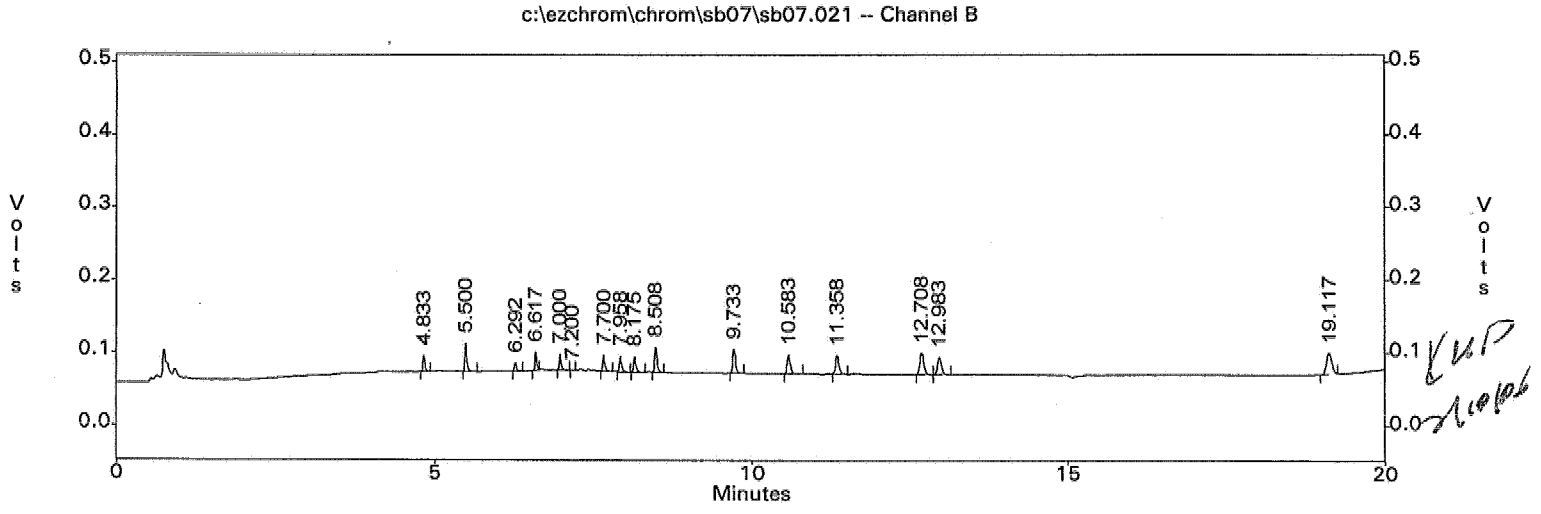
5165

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.021
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 2B
Acquired : Feb 09, 2006 01:10:17
Printed : Feb 09, 2006 13:27:57
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	47846	9286.2	-1.0
2	Hexachlorobenzene	5.500	90536	16480.6	5.0
--	alpha-BHC	5.717	0	0.0	0.0
--	gamma-BHC	6.167	0	0.0	0.0
3	beta-BHC	6.292	24103	4742.8	5.0
4	delta-BHC	6.617	46119	10503.0	5.0
--	Heptachlor	6.667	0	0.0	0.0
5	Aldrin	7.000	45605	9456.0	5.0
7	Heptachlor Epoxide	7.700	51431	10303.2	5.0
8	gamma-Chlordane	7.958	52750	10156.1	5.0
9	alpha-Chlordane	8.175	57578	11130.5	5.0
--	Endosulfan I	8.242	0	0.0	0.0
10	DDE	8.508	87139 ✓	9384.4	10.0
--	Dieldrin	8.700	0	0.0	0.0
--	Endrin	9.267	0	0.0	0.0
--	DDD	9.658	0	0.0	0.0
11	Endosulfan II	9.733	98894 ✓	9951.8	10.0
--	DDT	10.408	0	0.0	0.0
12	Endrin Aldehyde	10.583	87641	8639.9	10.0
13	Endosulfan Sulfate	11.358	86995	8891.8	10.0
--	Methoxychlor	12.683	0	0.0	0.0
14	Mirex	12.708	122350	11337.3	10.0
15	Endrin Ketone	12.983	98149	9990.3	10.0
16	DCB	19.117	167107	16659.5	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0

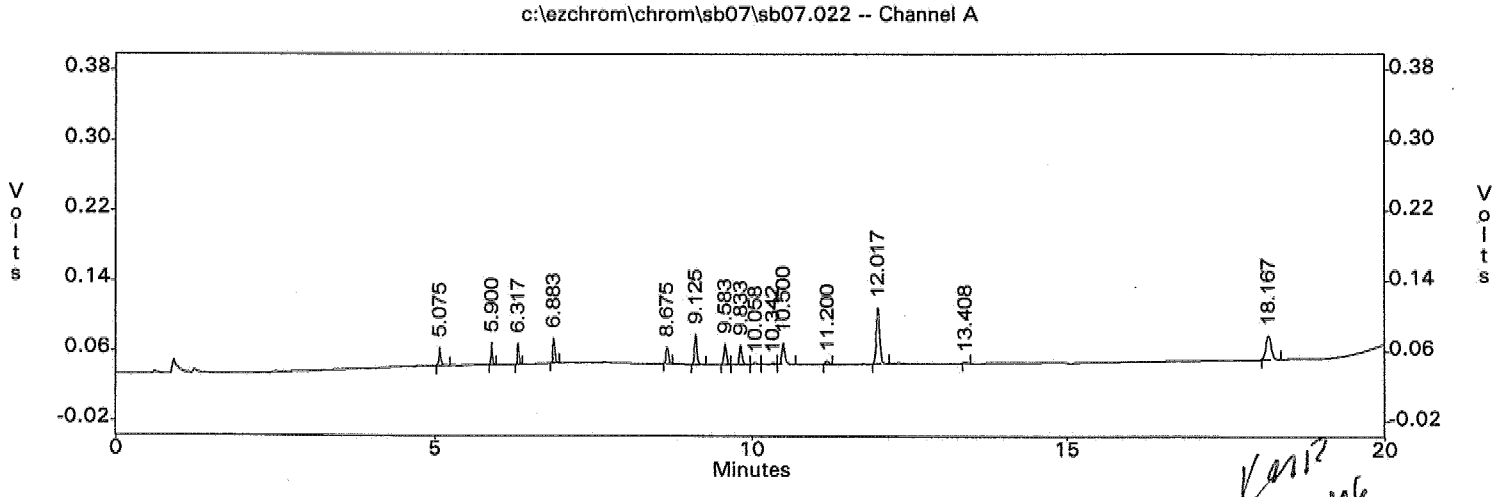


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.022
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 3A
Acquired : Feb 09, 2006 01:38:06
Printed : Feb 09, 2006 13:28:07
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	45282	4651.2	10.0
--	Hexachlorobenzene	5.642	0	0.0	0.0
2	alpha-BHC	5.900	44541	4718.6	10.0
3	gamma-BHC	6.317	43634	4577.1	10.0
--	beta-BHC	6.442	0	0.0	0.0
--	delta-BHC	6.650	0	0.0	0.0
4	Heptachlor	6.883	55097	5673.9	10.0
--	Aldrin	7.225	0	0.0	0.0
--	Heptachlor Epoxide	8.050	0	0.0	0.0
--	gamma-Chlordane	8.233	0	0.0	0.0
--	alpha-Chlordane	8.450	0	0.0	0.0
--	DDE	8.625	0	0.0	0.0
5	Endosulfan I	8.675	46806	4799.1	10.0
6	Dieldrin	9.125	93466	4768.4	20.0
7	Endrin	9.583	68503	3501.3	20.0
8	DDD	9.833	64255	3323.1	20.0
--	Endosulfan II	10.100	0	0.0	0.0
11	DDT	10.500	82336	4201.4	20.0
12	Endrin Aldehyde	11.200	12218	4184.1	-1.0
--	Mirex	12.008	0	0.0	0.0
13	Methoxychlor	12.017	247596	2466.7	100.0
--	Endosulfan Sulfate	12.525	0	0.0	0.0
14	Endrin Ketone	13.408	5643	4326.9	-1.0
15	DCB	18.167	156229	7628.6	20.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



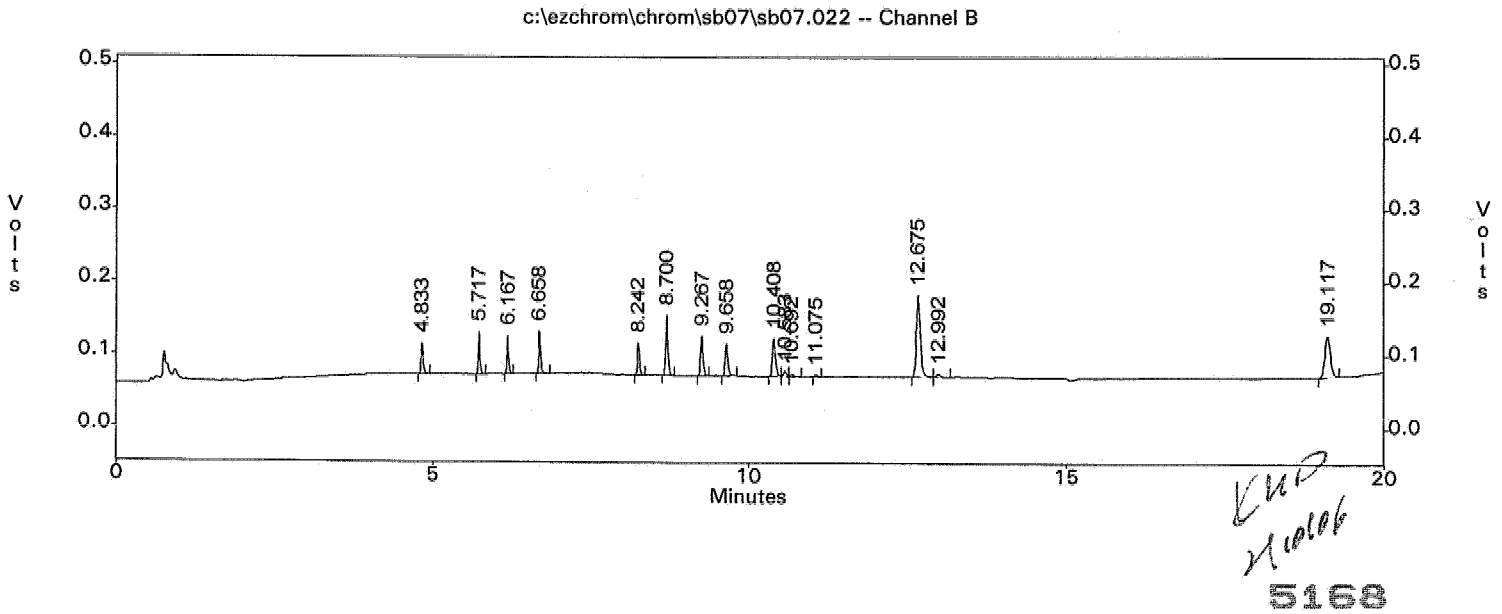
5167

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.022
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 3A
Acquired : Feb 09, 2006 01:38:06
Printed : Feb 09, 2006 13:28:07
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	92636	9286.2	10.0
--	Hexachlorobenzene	5.500	0	0.0	0.0
2	alpha-BHC	5.717	109644	11413.9	10.0
3	gamma-BHC	6.167	104960	10790.5	10.0
--	beta-BHC	6.292	0	0.0	0.0
--	delta-BHC	6.617	0	0.0	0.0
4	Heptachlor	6.658	121886	12376.0	10.0
--	Aldrin	7.000	0	0.0	0.0
--	Heptachlor Epoxide	7.700	0	0.0	0.0
--	gamma-Chlordane	7.958	0	0.0	0.0
--	alpha-Chlordane	8.175	0	0.0	0.0
5	Endosulfan I	8.242	107499	11000.8	10.0
--	DDE	8.508	0	0.0	0.0
6	Dieldrin	8.700	207733	10685.9	20.0
7	Endrin	9.267	154475	7892.7	20.0
8	DDD	9.658	138982	7117.7	20.0
--	Endosulfan II	9.733	0	0.0	0.0
9	DDT	10.408	176448	9053.6	20.0
10	Endrin Aldehyde	10.583	25273	8639.9	-1.0
--	Endosulfan Sulfate	11.358	0	0.0	0.0
13	Methoxychlor	12.675	506146	5002.2	100.0
--	Mirex	12.708	0	0.0	0.0
14	Endrin Ketone	12.992	20183	9990.3	-1.0
15	DCB	19.117	341420	16659.5	20.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



KHP 2/10/06

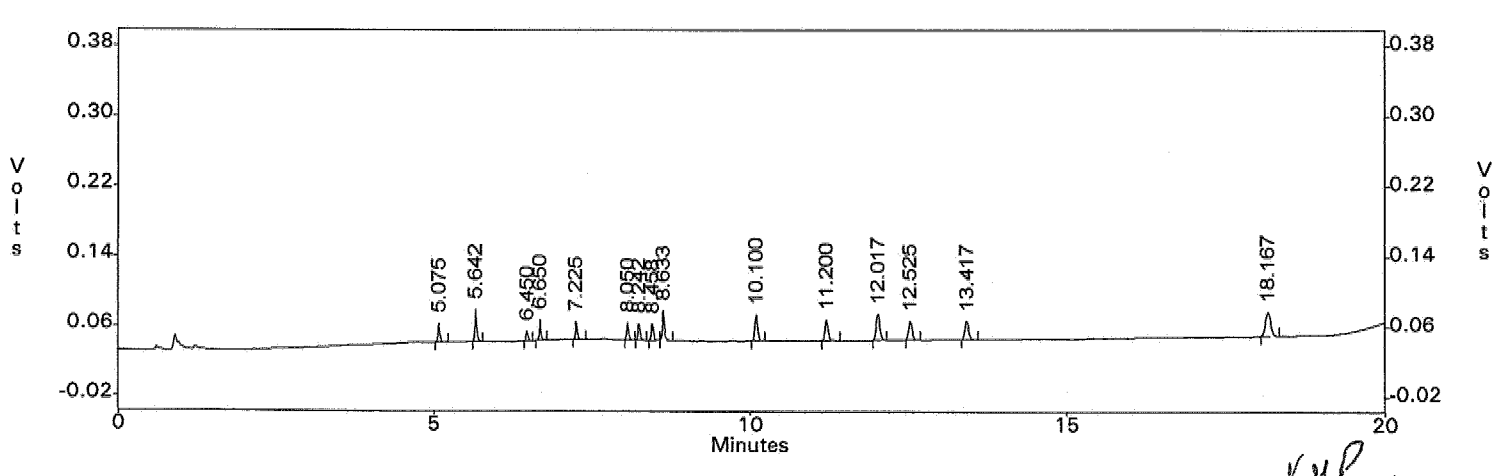
5168

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.023
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 3B
Acquired : Feb 09, 2006 02:05:54
Printed : Feb 09, 2006 13:28:44
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	46627	4651.2	-1.0
2	Hexachlorobenzene	5.642	79398	7654.5	10.0
--	alpha-BHC	5.900	0	0.0	0.0
--	gamma-BHC	6.317	0	0.0	0.0
3	beta-BHC	6.450	22756	2251.3	10.0
4	delta-BHC	6.650	44246	4546.6	10.0
--	Heptachlor	6.883	0	0.0	0.0
5	Aldrin	7.225	40876	4104.3	10.0
6	Heptachlor Epoxide	8.050	47739	4737.9	10.0
7	gamma-Chlordane	8.242	46136	4582.0	10.0
8	alpha-Chlordane	8.458	49999	4899.1	10.0
9	DDE	8.633	87031	4499.6	20.0
--	Endosulfan I	8.675	0	0.0	0.0
--	Dieldrin	9.125	0	0.0	0.0
--	Endrin	9.583	0	0.0	0.0
--	DDD	9.833	0	0.0	0.0
10	Endosulfan II	10.100	89536	4435.5	20.0
--	DDT	10.500	0	0.0	0.0
11	Endrin Aldehyde	11.200	86241	4184.1	20.0
12	Mirex	12.017	119714	5755.7	20.0
--	Methoxychlor	12.018	0	0.0	0.0
13	Endosulfan Sulfate	12.525	79697	3968.4	20.0
14	Endrin Ketone	13.417	86879	4326.9	20.0
15	DCB	18.167	154428	7628.6	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



KMP 2/10/06

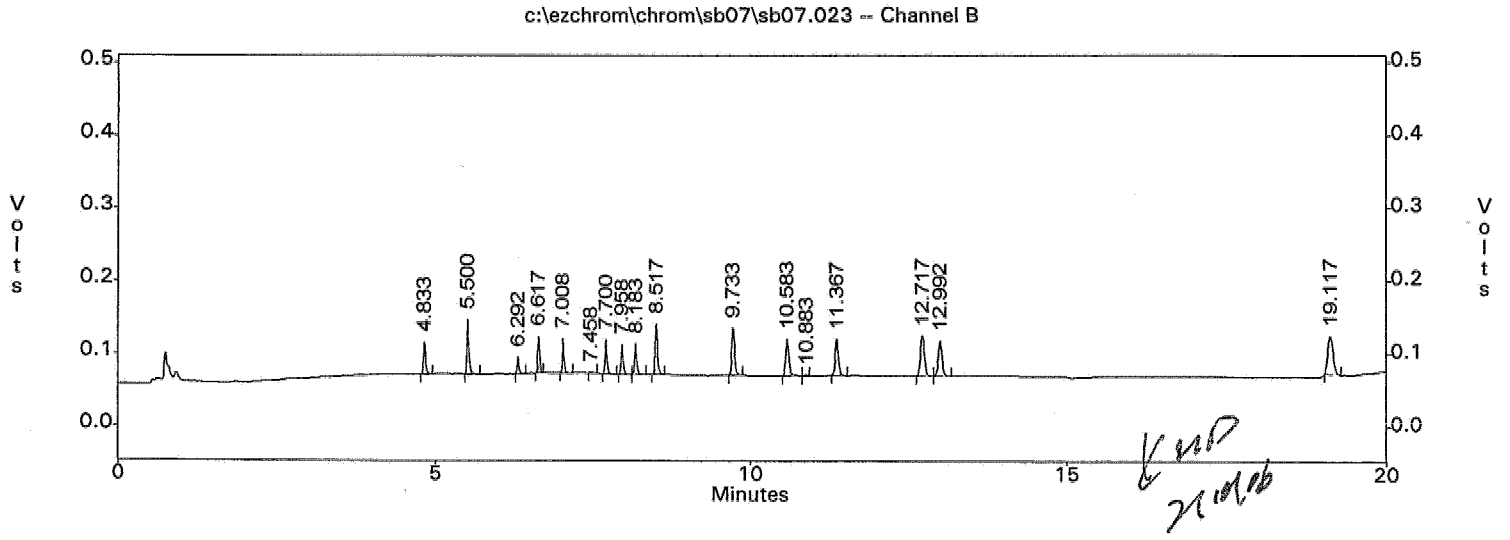
5169

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.023
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 3B
Acquired : Feb 09, 2006 02:05:54
Printed : Feb 09, 2006 13:28:44
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	96272	9286.2	-1.0
2	Hexachlorobenzene	5.500	172577	16480.6	10.0
--	alpha-BHC	5.717	0	0.0	0.0
--	gamma-BHC	6.167	0	0.0	0.0
3	beta-BHC	6.292	48459	4742.8	10.0
4	delta-BHC	6.617	97139	10503.0	10.0
--	Heptachlor	6.658	0	0.0	0.0
5	Aldrin	7.008	92396	9456.0	10.0
7	Heptachlor Epoxide	7.700	103634	10303.2	10.0
8	gamma-Chlordane	7.958	101637	10156.1	10.0
9	alpha-Chlordane	8.183	109489	11130.5	10.0
--	Endosulfan I	8.242	0	0.0	0.0
10	DDE	8.517	182018	9384.4	20.0
--	Dieldrin	8.700	0	0.0	0.0
--	Endrin	9.267	0	0.0	0.0
--	DDD	9.658	0	0.0	0.0
11	Endosulfan II	9.733	200629	9951.8	20.0
--	DDT	10.408	0	0.0	0.0
12	Endrin Aldehyde	10.583	177773	8639.9	20.0
14	Endosulfan Sulfate	11.367	181261	8891.8	20.0
--	Methoxychlor	12.675	0	0.0	0.0
15	Mirex	12.717	238478	11337.3	20.0
16	Endrin Ketone	12.992	199083	9990.3	20.0
17	DCB	19.117	306932	16659.5	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0

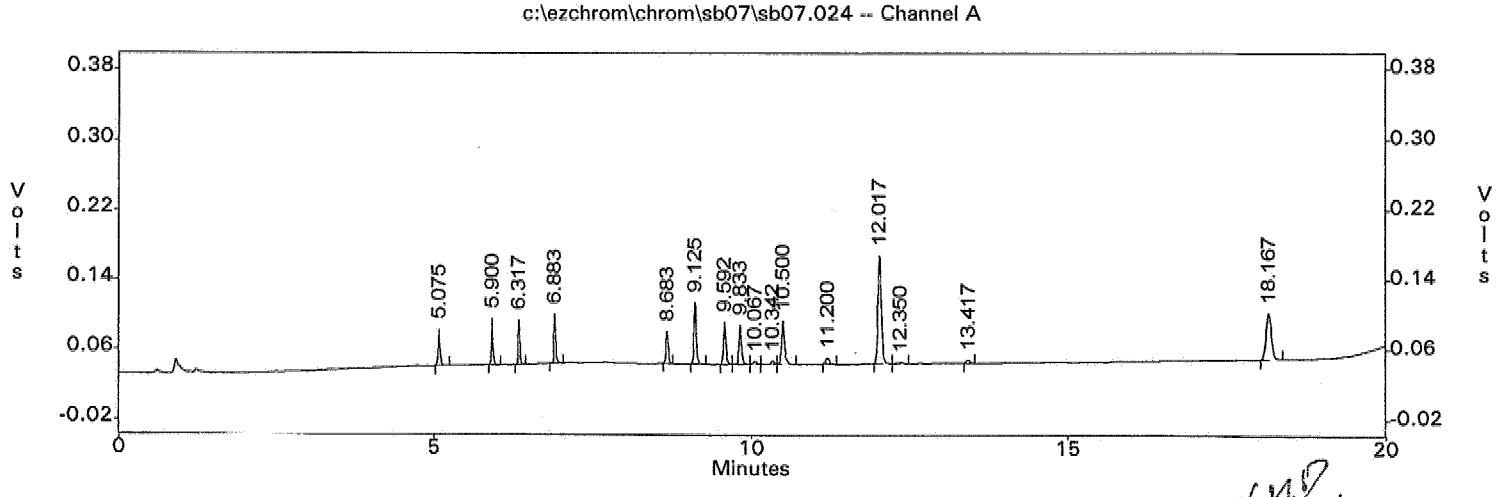


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.024
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 4A
Acquired : Feb 09, 2006 02:33:41
Printed : Feb 09, 2006 13:29:16
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	90794	4651.2	20.0
--	Hexachlorobenzene	5.642	0	0.0	0.0
2	alpha-BHC	5.900	93546	4718.6	20.0
3	gamma-BHC	6.317	90583	4577.1	20.0
--	beta-BHC	6.450	0	0.0	0.0
--	delta-BHC	6.650	0	0.0	0.0
4	Heptachlor	6.883	112501	5673.9	20.0
--	Aldrin	7.225	0	0.0	0.0
--	Heptachlor Epoxide	8.050	0	0.0	0.0
--	gamma-Chlordane	8.242	0	0.0	0.0
--	alpha-Chlordane	8.458	0	0.0	0.0
--	DDE	8.633	0	0.0	0.0
5	Endosulfan I	8.683	94452	4799.1	20.0
6	Dieldrin	9.125	189787	4768.4	40.0
7	Endrin	9.592	138261	3501.3	40.0
8	DDD	9.833	129402	3323.1	40.0
9	Endosulfan II	10.067	12008	4435.5	-1.0
11	DDT	10.500	166808	4201.4	40.0
12	Endrin Aldehyde	11.200	26945	4184.1	-1.0
--	Mirex	12.016	0	0.0	0.0
13	Methoxychlor	12.017	486680	2466.7	200.0
--	Endosulfan Sulfate	12.525	0	0.0	0.0
15	Endrin Ketone	13.417	13288	4326.9	-1.0
16	DCB	18.167	309952	7628.6	40.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



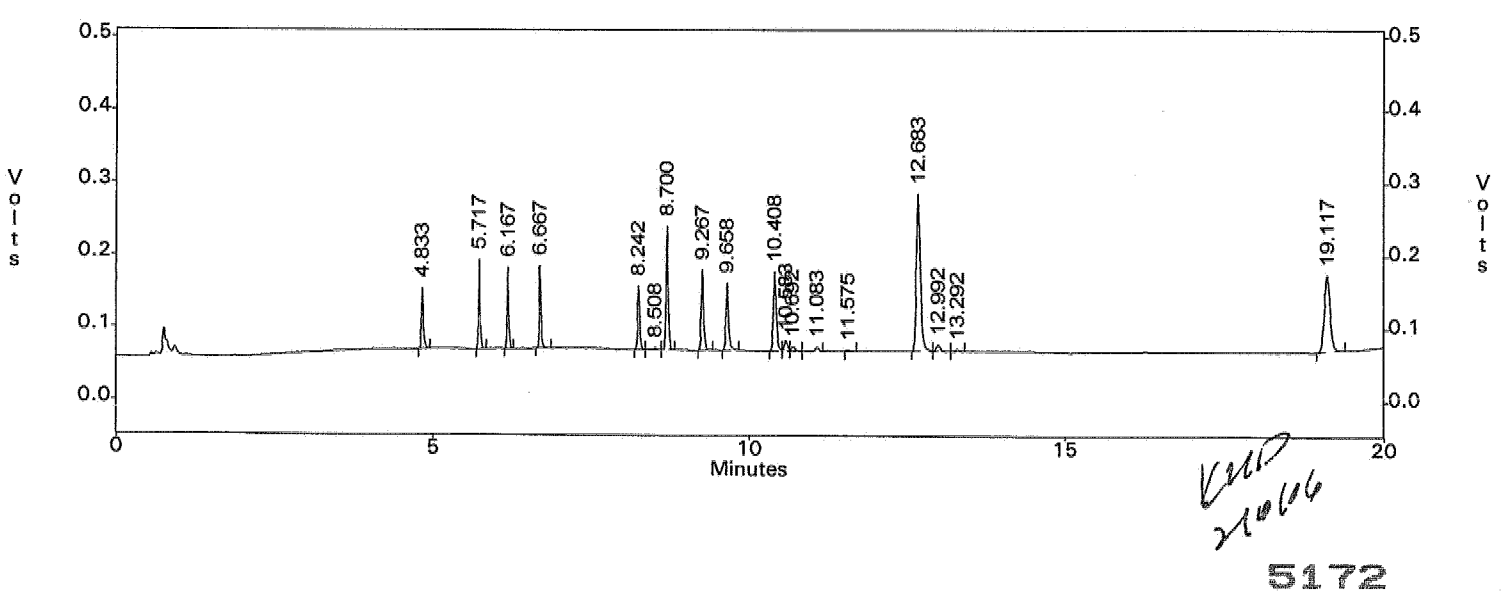
5171

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.024
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 4A
Acquired : Feb 09, 2006 02:33:41
Printed : Feb 09, 2006 13:29:16
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	183747	9286.2	20.0
--	Hexachlorobenzene	5.500	0	0.0	0.0
2	alpha-BHC	5.717	232447	11413.9	20.0
3	gamma-BHC	6.167	217246	10790.5	20.0
--	beta-BHC	6.292	0	0.0	0.0
--	delta-BHC	6.617	0	0.0	0.0
4	Heptachlor	6.667	241308	12376.0	20.0
--	Aldrin	7.008	0	0.0	0.0
--	Heptachlor Epoxide	7.700	0	0.0	0.0
--	gamma-Chlordane	7.958	0	0.0	0.0
--	alpha-Chlordane	8.183	0	0.0	0.0
5	Endosulfan I	8.242	214997	11000.8	20.0
6	DDE	8.508	10834	9384.4	-1.0
7	Dieldrin	8.700	428979	10685.9	40.0
8	Endrin	9.267	315931	7892.7	40.0
9	DDD	9.658	288206	7117.7	40.0
--	Endosulfan II	9.733	0	0.0	0.0
10	DDT	10.408	366694	9053.6	40.0
11	Endrin Aldehyde	10.583	51803	8639.9	-1.0
--	Endosulfan Sulfate	11.367	0	0.0	0.0
15	Methoxychlor	12.683	982844	5002.2	200.0
--	Mirex	12.717	0	0.0	0.0
16	Endrin Ketone	12.992	39864	9990.3	-1.0
18	DCB	19.117	673995	16659.5	40.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



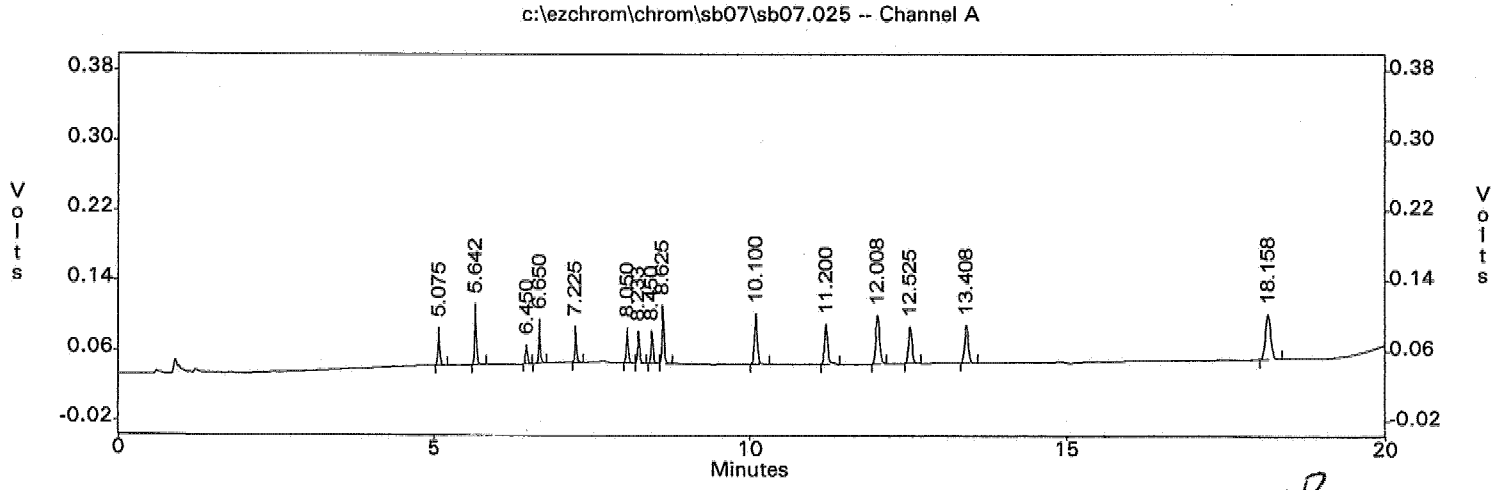
5172

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.025
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 4B
Acquired : Feb 09, 2006 03:01:30
Printed : Feb 09, 2006 13:29:32
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	92290	4651.2	-1.0
2	Hexachlorobenzene	5.642	151524	7654.5	20.0
--	alpha-BHC	5.900	0	0.0	0.0
--	gamma-BHC	6.317	0	0.0	0.0
3	beta-BHC	6.450	44889	2251.3	20.0
4	delta-BHC	6.650	90305	4546.6	20.0
--	Heptachlor	6.883	0	0.0	0.0
5	Aldrin	7.225	81415	4104.3	20.0
6	Heptachlor Epoxide	8.050	93713	4737.9	20.0
7	gamma-Chlordane	8.233	90486	4582.0	20.0
8	alpha-Chlordane	8.450	96293	4899.1	20.0
9	DDE	8.625	171274	4499.6	40.0
--	Endosulfan I	8.683	0	0.0	0.0
--	Dieldrin	9.125	0	0.0	0.0
--	Endrin	9.592	0	0.0	0.0
--	DDD	9.833	0	0.0	0.0
10	Endosulfan II	10.100	178648	4435.5	40.0
--	DDT	10.500	0	0.0	0.0
11	Endrin Aldehyde	11.200	168083	4184.1	40.0
12	Mirex	12.008	224821	5755.7	40.0
--	Methoxychlor	12.017	0	0.0	0.0
13	Endosulfan Sulfate	12.525	162438 ✓	3968.4	40.0
14	Endrin Ketone	13.408	174330	4326.9	40.0
15	DCB	18.158	298475	7628.6	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



KHD 2/10/06

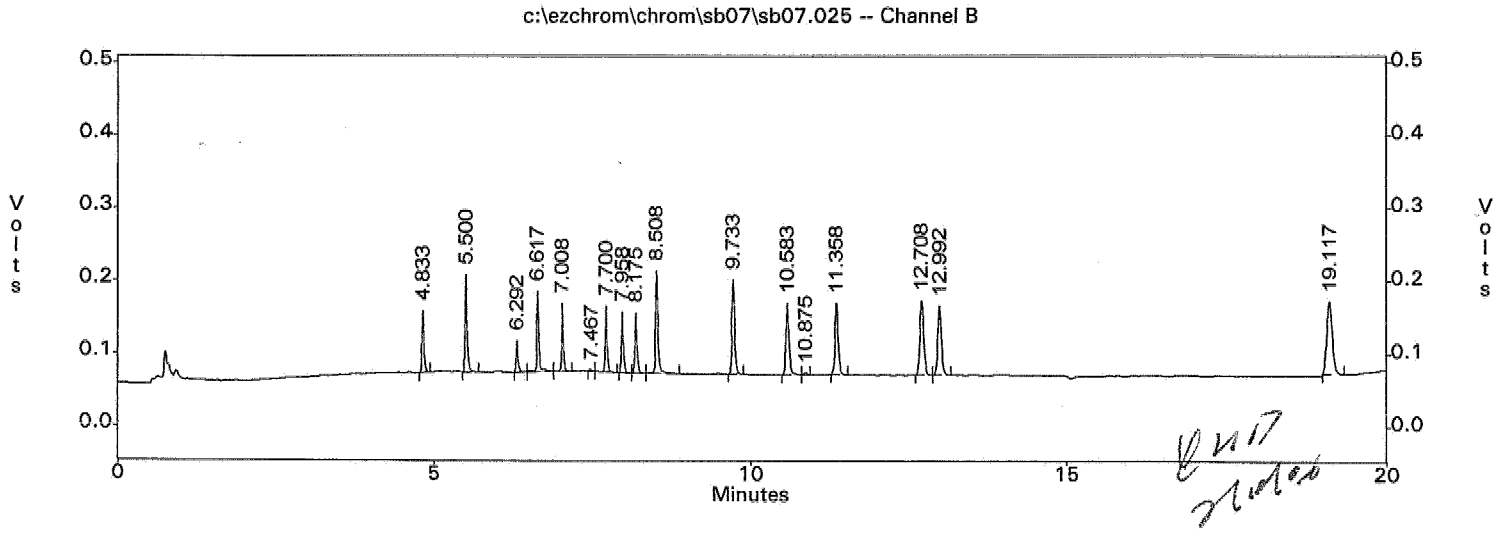
5173

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.025
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 4B
Acquired : Feb 09, 2006 03:01:30
Printed : Feb 09, 2006 13:29:32
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	187040	9286.2	-1.0
2	Hexachlorobenzene	5.500	319485	16480.6	20.0
--	alpha-BHC	5.717	0	0.0	0.0
--	gamma-BHC	6.167	0	0.0	0.0
3	beta-BHC	6.292	96359	4742.8	20.0
4	delta-BHC	6.617	239551	10503.0	20.0
--	Heptachlor	6.667	0	0.0	0.0
5	Aldrin	7.008	193224	9456.0	20.0
7	Heptachlor Epoxide	7.700	205656	10303.2	20.0
8	gamma-Chlordane	7.958	198662	10156.1	20.0
9	alpha-Chlordane	8.175	211631	11130.5	20.0
--	Endosulfan I	8.242	0	0.0	0.0
10	DDE	8.508	398669	9384.4	40.0
--	Dieldrin	8.700	0	0.0	0.0
--	Endrin	9.267	0	0.0	0.0
--	DDD	9.658	0	0.0	0.0
11	Endosulfan II	9.733	395708	9951.8	40.0
--	DDT	10.408	0	0.0	0.0
12	Endrin Aldehyde	10.583	345599	8639.9	40.0
14	Endosulfan Sulfate	11.358	361262	8891.8	40.0
--	Methoxychlor	12.683	0	0.0	0.0
15	Mirex	12.708	444248	11337.3	40.0
16	Endrin Ketone	12.992	399731	9990.3	40.0
17	DCB	19.117	610401	16659.5	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0

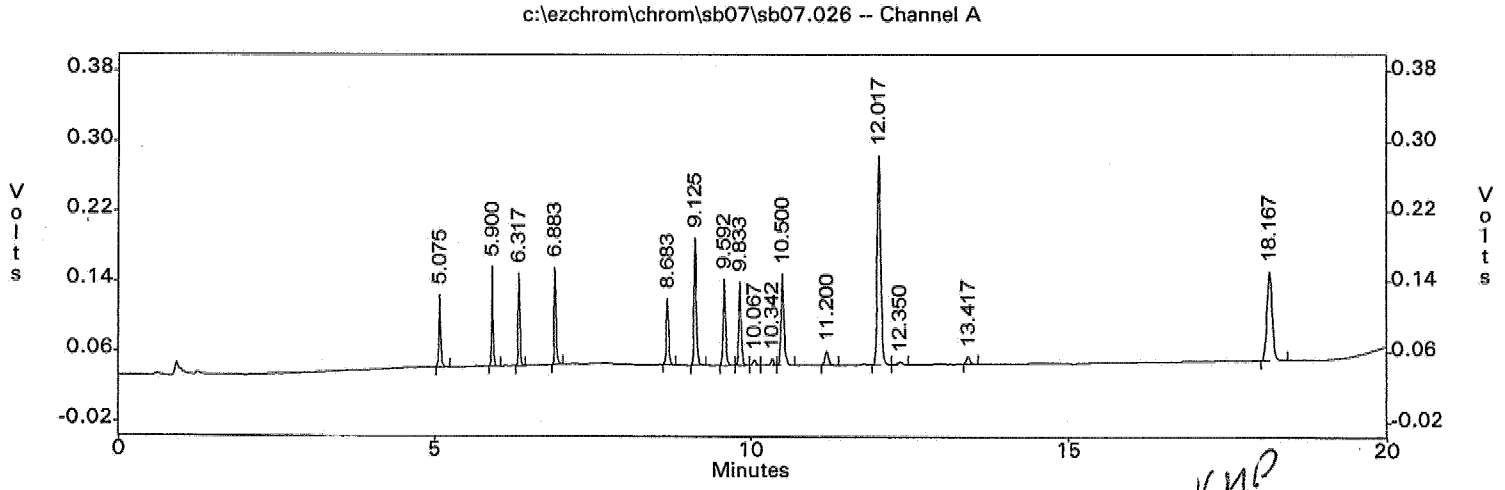


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.026
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 5A
Acquired : Feb 09, 2006 03:29:19
Printed : Feb 09, 2006 13:29:49
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	182986	4651.2	40.0
--	Hexachlorobenzene	5.642	0	0.0	0.0
2	alpha-BHC	5.900	204897	4718.6	40.0
3	gamma-BHC	6.317	195170	4577.1	40.0
--	beta-BHC	6.450	0	0.0	0.0
--	delta-BHC	6.650	0	0.0	0.0
4	Heptachlor	6.883	229945	5673.9	40.0
--	Aldrin	7.225	0	0.0	0.0
--	Heptachlor Epoxide	8.050	0	0.0	0.0
--	gamma-Chlordane	8.233	0	0.0	0.0
--	alpha-Chlordane	8.450	0	0.0	0.0
--	DDE	8.625	0	0.0	0.0
5	Endosulfan I	8.683	194596	4799.1	40.0
6	Dieldrin	9.125	398734	4768.4	80.0
7	Endrin	9.592	281510	3501.3	80.0
8	DDD	9.833	277378	3323.1	80.0
9	Endosulfan II	10.067	20830	4435.5	-1.0
11	DDT	10.500	352042	4201.4	80.0
12	Endrin Aldehyde	11.200	60973	4184.1	-1.0
--	Mirex	12.008	0	0.0	0.0
13	Methoxychlor	12.017	966616	2466.7	400.0
--	Endosulfan Sulfate	12.525	0	0.0	0.0
15	Endrin Ketone	13.417	33224	4326.9	-1.0
16	DCB	18.167	601603	7628.6	80.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



KMP 2/10/06

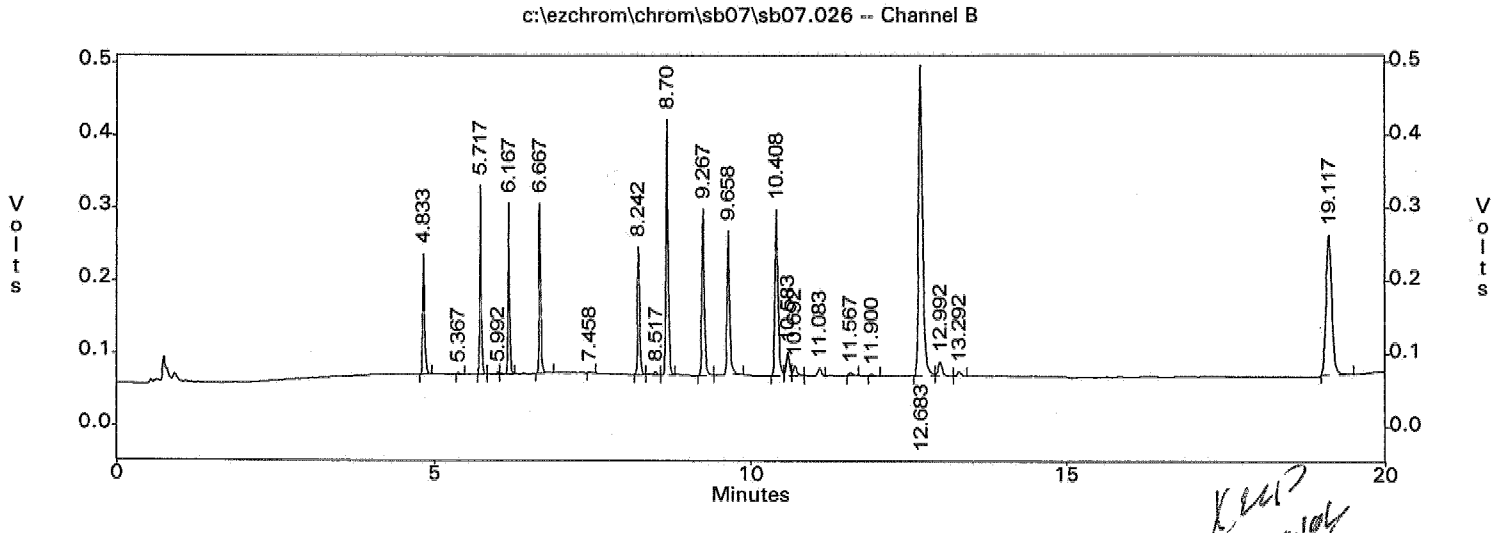
5175

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.026
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 5A
Acquired : Feb 09, 2006 03:29:19
Printed : Feb 09, 2006 13:29:49
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	366738	9286.2	40.0
--	Hexachlorobenzene	5.500	0	0.0	0.0
3	alpha-BHC	5.717	496971	11413.9	40.0
5	gamma-BHC	6.167	457155	10790.5	40.0
--	beta-BHC	6.292	0	0.0	0.0
--	delta-BHC	6.617	0	0.0	0.0
6	Heptachlor	6.667	488513	12376.0	40.0
--	Aldrin	7.008	0	0.0	0.0
--	Heptachlor Epoxide	7.700	0	0.0	0.0
--	gamma-Chlordane	7.958	0	0.0	0.0
--	alpha-Chlordane	8.175	0	0.0	0.0
8	Endosulfan I	8.242	433863	11000.8	40.0
9	DDE	8.517	15958	9384.4	-1.0
10	Dieldrin	8.700	892888	10685.9	80.0
11	Endrin	9.267	644899	7892.7	80.0
12	DDD	9.658	620774	7117.7	80.0
--	Endosulfan II	9.733	0	0.0	0.0
13	DDT	10.408	772987	9053.6	80.0
14	Endrin Aldehyde	10.583	114932	8639.9	-1.0
--	Endosulfan Sulfate	11.358	0	0.0	0.0
19	Methoxychlor	12.683	1940172	5002.2	400.0
--	Mirex	12.708	0	0.0	0.0
20	Endrin Ketone	12.992	86277	9990.3	-1.0
22	DCB	19.117	1241728	16659.5	80.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



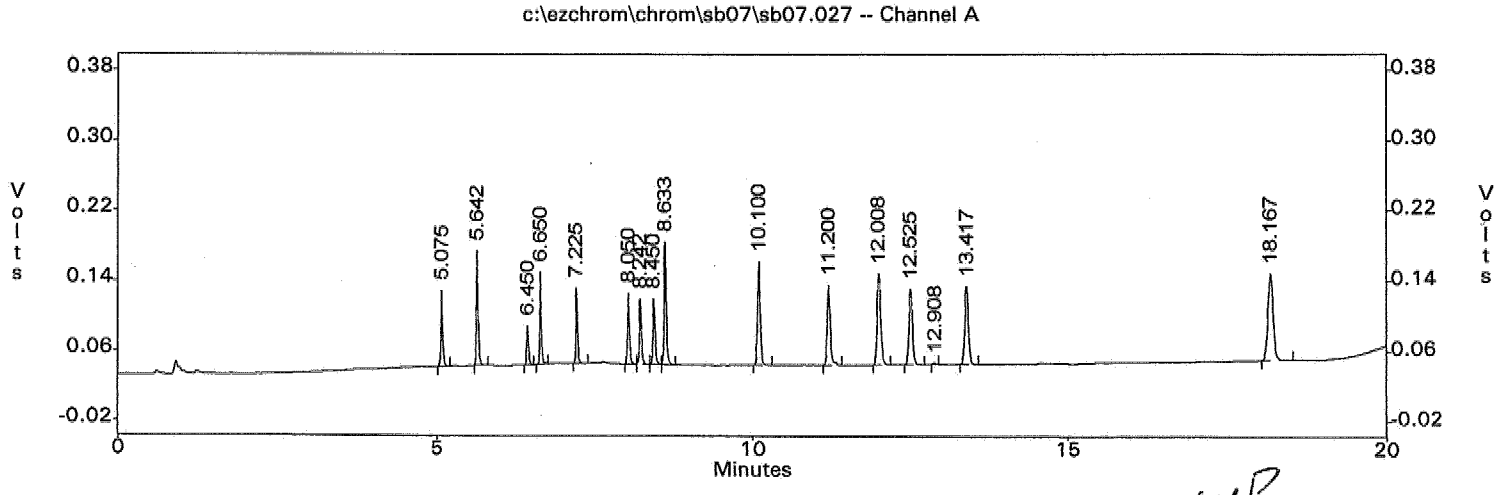
5176

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.027
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 5B
Acquired : Feb 09, 2006 03:57:09
Printed : Feb 09, 2006 13:30:00
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	186581	4651.2	-1.0
2	Hexachlorobenzene	5.642	292686	7654.5	40.0
--	alpha-BHC	5.900	0	0.0	0.0
--	gamma-BHC	6.317	0	0.0	0.0
3	beta-BHC	6.450	90920	2251.3	40.0
4	delta-BHC	6.650	195863	4546.6	40.0
--	Heptachlor	6.883	0	0.0	0.0
5	Aldrin	7.225	170239	4104.3	40.0
6	Heptachlor Epoxide	8.050	190784	4737.9	40.0
7	gamma-Chlordane	8.242	184617	4582.0	40.0
8	alpha-Chlordane	8.450	194543	4899.1	40.0
9	DDE	8.633	356317	4499.6	80.0
--	Endosulfan I	8.683	0	0.0	0.0
--	Dieldrin	9.125	0	0.0	0.0
--	Endrin	9.592	0	0.0	0.0
--	DDD	9.833	0	0.0	0.0
10	Endosulfan II	10.100	364451	4435.5	80.0
--	DDT	10.500	0	0.0	0.0
11	Endrin Aldehyde	11.200	337697	4184.1	80.0
12	Mirex	12.008	430310 ✓	5755.7	80.0
--	Methoxychlor	12.017	0	0.0	0.0
13	Endosulfan Sulfate	12.525	336209	3968.4	80.0
15	Endrin Ketone	13.417	364814	4326.9	80.0
16	DCB	18.167	588147	7628.6	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



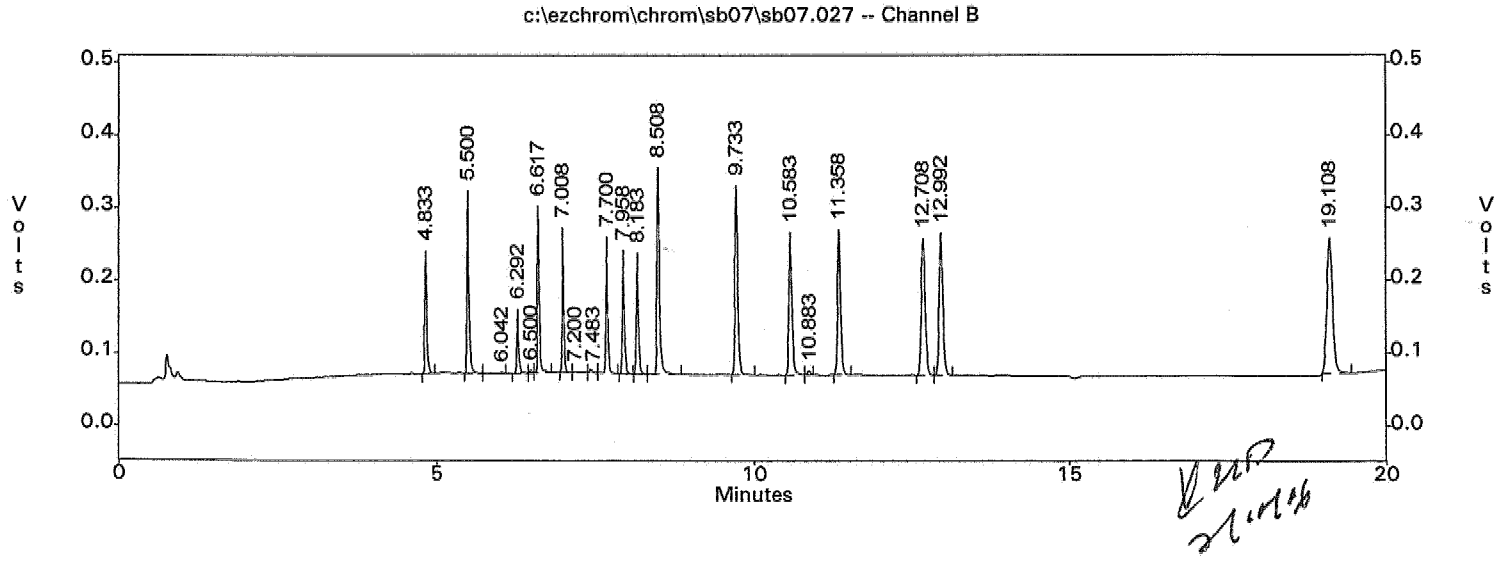
5177

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.027
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 5B
Acquired : Feb 09, 2006 03:57:09
Printed : Feb 09, 2006 13:30:00
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	373669	9286.2	-1.0
2	Hexachlorobenzene	5.500	598989	16480.6	40.0
--	alpha-BHC	5.717	0	0.0	0.0
--	gamma-BHC	6.167	0	0.0	0.0
4	beta-BHC	6.292	191152	4742.8	40.0
6	delta-BHC	6.617	461436	10503.0	40.0
--	Heptachlor	6.667	0	0.0	0.0
7	Aldrin	7.008	393078	9456.0	40.0
10	Heptachlor Epoxide	7.700	417161	10303.2	40.0
11	gamma-Chlordane	7.958	399488	10156.1	40.0
12	alpha-Chlordane	8.183	419959	11130.5	40.0
--	Endosulfan I	8.242	0	0.0	0.0
13	DDE	8.508	805657	9384.4	80.0
--	Dieldrin	8.700	0	0.0	0.0
--	Endrin	9.267	0	0.0	0.0
--	DDD	9.658	0	0.0	0.0
14	Endosulfan II	9.733	810226	9951.8	80.0
--	DDT	10.408	0	0.0	0.0
15	Endrin Aldehyde	10.583	690418	8639.9	80.0
17	Endosulfan Sulfate	11.358	739257	8891.8	80.0
--	Methoxychlor	12.683	0	0.0	0.0
18	Mirex	12.708	842701	11337.3	80.0
19	Endrin Ketone	12.992	820542	9990.3	80.0
20	DCB	19.108	1198456	16659.5	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



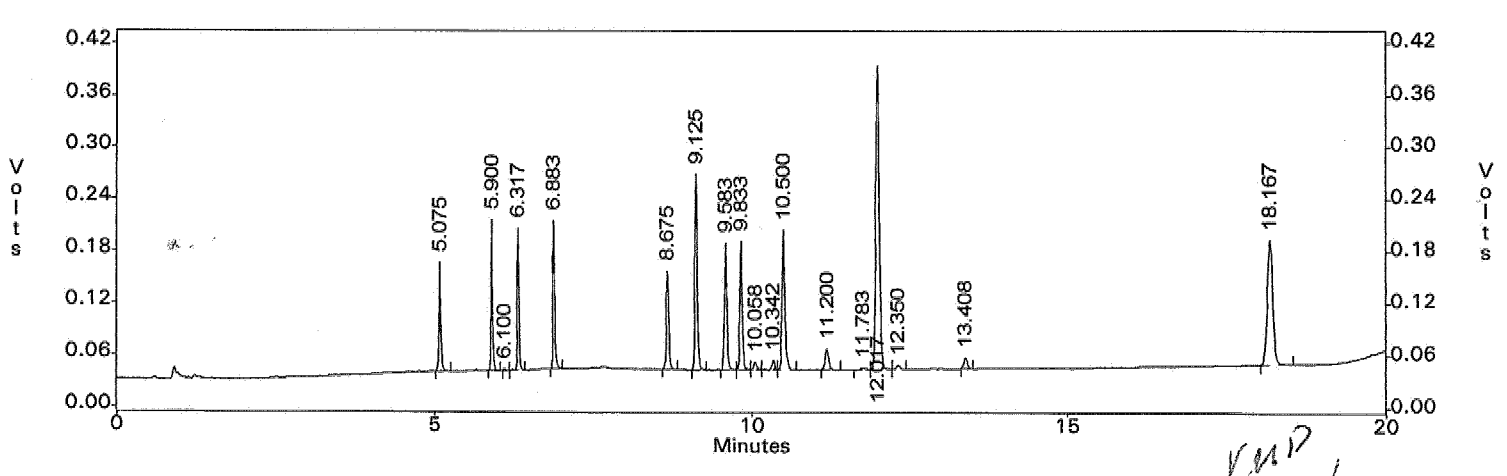
5178

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.028
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 6A
Acquired : Feb 09, 2006 04:24:54
Printed : Feb 09, 2006 13:30:20
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	274110	4651.2	60.0
--	Hexachlorobenzene	5.642	0	0.0	0.0
2	alpha-BHC	5.900	320557	4718.6	60.0
4	gamma-BHC	6.317	305435	4577.1	60.0
--	beta-BHC	6.450	0	0.0	0.0
--	delta-BHC	6.650	0	0.0	0.0
5	Heptachlor	6.883	346926	5673.9	60.0
--	Aldrin	7.225	0	0.0	0.0
--	Heptachlor Epoxide	8.050	0	0.0	0.0
--	gamma-Chlordane	8.242	0	0.0	0.0
--	alpha-Chlordane	8.450	0	0.0	0.0
--	DDE	8.633	0	0.0	0.0
6	Endosulfan I	8.675	295401	4799.1	60.0
7	Dieldrin	9.125	608445	4768.4	120.0
8	Endrin	9.583	427137	3501.3	120.0
9	DDD	9.833	428634	3323.1	120.0
--	Endosulfan II	10.100	0	0.0	0.0
12	DDT	10.500	539084	4201.4	120.0
13	Endrin Aldehyde	11.200	93046	4184.1	-1.0
--	Mirex	12.008	0	0.0	0.0
15	Methoxychlor	12.017	1414107	2466.7	600.0
--	Endosulfan Sulfate	12.525	0	0.0	0.0
17	Endrin Ketone	13.408	49130	4326.9	-1.0
18	DCB	18.167	876214	7628.6	120.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



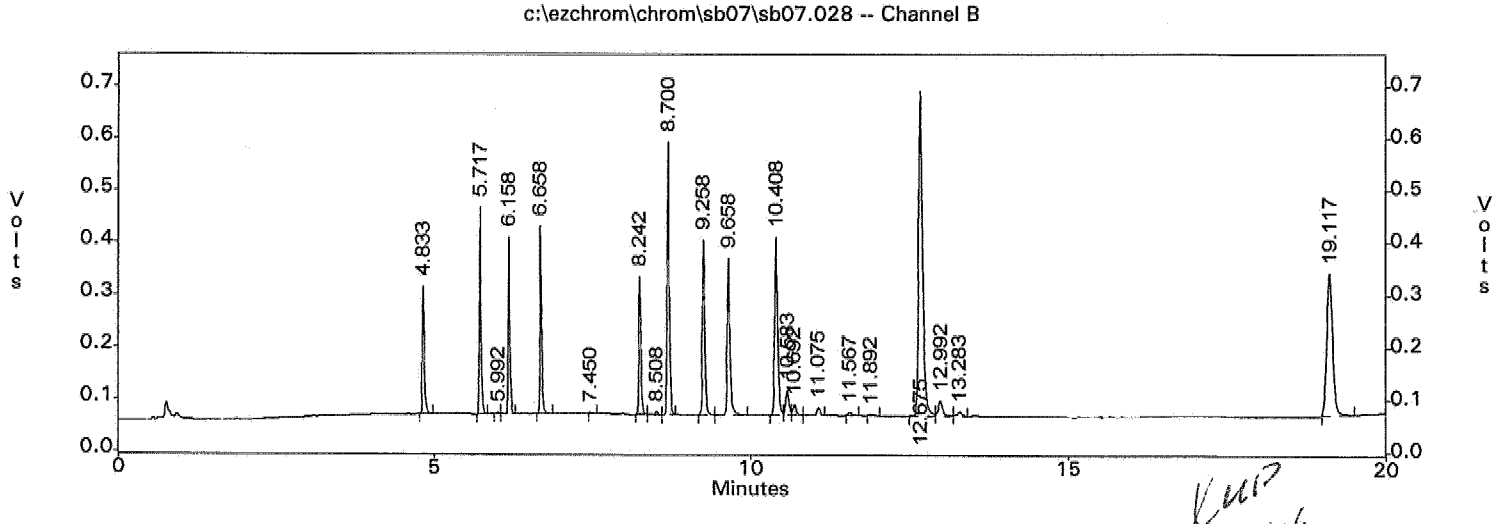
5179

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.028
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 6A
Acquired : Feb 09, 2006 04:24:54
Printed : Feb 09, 2006 13:30:21
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	541530	9286.2	60.0
--	Hexachlorobenzene	5.500	0	0.0	0.0
2	alpha-BHC	5.717	757958	11413.9	60.0
4	gamma-BHC	6.158	689153	10790.5	60.0
--	beta-BHC	6.292	0	0.0	0.0
--	delta-BHC	6.617	0	0.0	0.0
5	Heptachlor	6.658	725834	12376.0	60.0
--	Aldrin	7.008	0	0.0	0.0
--	Heptachlor Epoxide	7.700	0	0.0	0.0
--	gamma-Chlordane	7.958	0	0.0	0.0
--	alpha-Chlordane	8.183	0	0.0	0.0
7	Endosulfan I	8.242	647248	11000.8	60.0
8	DDE	8.508	20375	9384.4	-1.0
9	Dieldrin	8.700	1346267	10685.9	120.0
10	Endrin	9.258	977505	7892.7	120.0
11	DDD	9.658	965265	7117.7	120.0
--	Endosulfan II	9.733	0	0.0	0.0
12	DDT	10.408	1177329	9053.6	120.0
13	Endrin Aldehyde	10.583	174642	8639.9	-1.0
--	Endosulfan Sulfate	11.358	0	0.0	0.0
18	Methoxychlor	12.675	2856227	5002.2	600.0
--	Mirex	12.708	0	0.0	0.0
19	Endrin Ketone	12.992	134029	9990.3	-1.0
21	DCB	19.117	1789452	16659.5	120.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



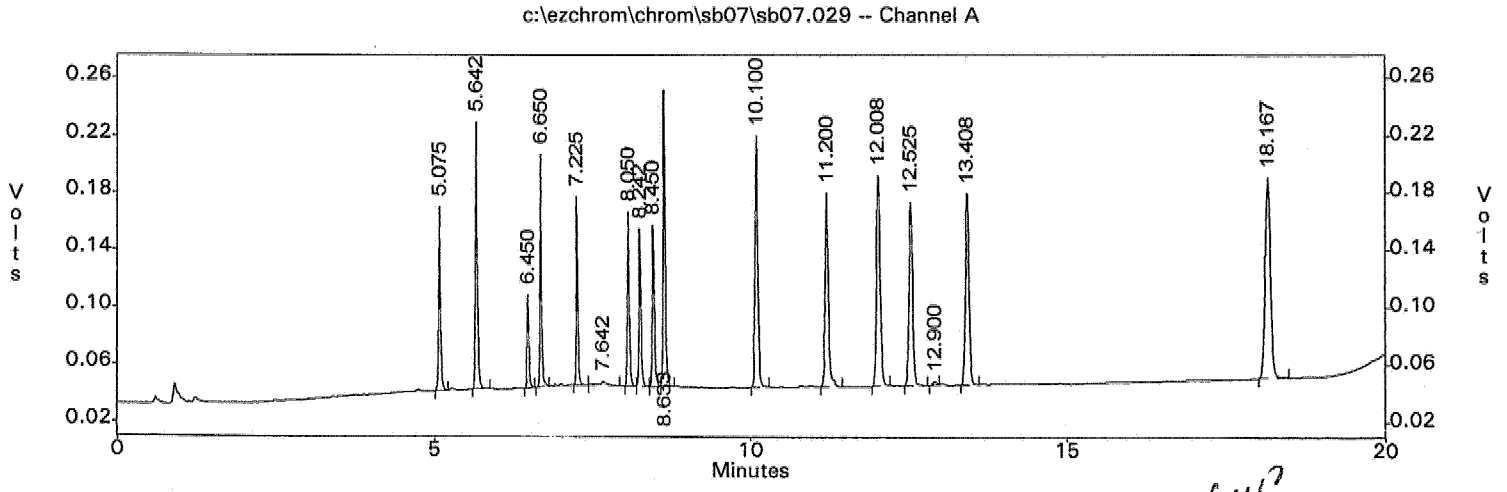
5180

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.029
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 6B
Acquired : Feb 09, 2006 04:52:43
Printed : Feb 09, 2006 13:31:08
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	278971	4651.2	-1.0
2	Hexachlorobenzene	5.642	425973	7654.5	60.0
--	alpha-BHC	5.900	0	0.0	0.0
--	gamma-BHC	6.317	0	0.0	0.0
3	beta-BHC	6.450	136792	2251.3	60.0
4	delta-BHC	6.650	305677	4546.6	60.0
--	Heptachlor	6.883	0	0.0	0.0
5	Aldrin	7.225	261266	4104.3	60.0
7	Heptachlor Epoxide	8.050	286445	4737.9	60.0
8	gamma-Chlordane	8.242	277618	4582.0	60.0
9	alpha-Chlordane	8.450	291420	4899.1	60.0
10	DDE	8.633	541962	4499.6	120.0
--	Endosulfan I	8.675	0	0.0	0.0
--	Dieldrin	9.125	0	0.0	0.0
--	Endrin	9.583	0	0.0	0.0
--	DDD	9.833	0	0.0	0.0
11	Endosulfan II	10.100	546835	4435.5	120.0
--	DDT	10.500	0	0.0	0.0
12	Endrin Aldehyde	11.200	503306	4184.1	120.0
13	Mirex	12.008	618535	5755.7	120.0
--	Methoxychlor	12.017	0	0.0	0.0
14	Endosulfan Sulfate	12.525	505854	3968.4	120.0
16	Endrin Ketone	13.408	554341	4326.9	120.0
17	DCB	18.167	850733	7628.6	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



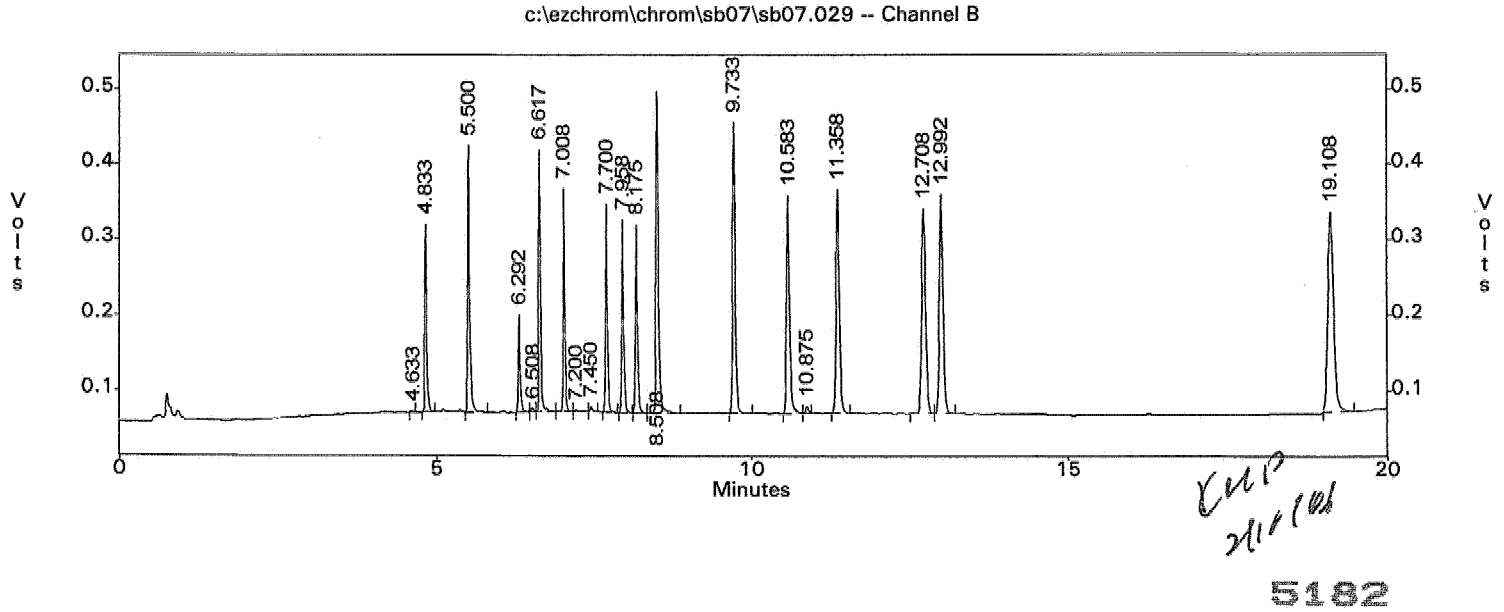
5181

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.029
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CP08B07 6B
Acquired : Feb 09, 2006 04:52:43
Printed : Feb 09, 2006 13:31:08
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.833	552399	9286.2	-1.0
3	Hexachlorobenzene	5.500	857993	16480.6	60.0
--	alpha-BHC	5.717	0	0.0	0.0
--	gamma-BHC	6.158	0	0.0	0.0
4	beta-BHC	6.292	282769	4742.8	60.0
6	delta-BHC	6.617	713121	10503.0	60.0
--	Heptachlor	6.658	0	0.0	0.0
7	Aldrin	7.008	606736	9456.0	60.0
10	Heptachlor Epoxide	7.700	616490	10303.2	60.0
11	gamma-Chlordane	7.958	597382	10156.1	60.0
12	alpha-Chlordane	8.175	623046	11130.5	60.0
--	Endosulfan I	8.242	0	0.0	0.0
13	DDE	8.508	1204489	9384.4	120.0
--	Dieldrin	8.700	0	0.0	0.0
--	Endrin	9.258	0	0.0	0.0
--	DDD	9.658	0	0.0	0.0
14	Endosulfan II	9.733	1199927	9951.8	120.0
--	DDT	10.408	0	0.0	0.0
15	Endrin Aldehyde	10.583	1021608	8639.9	120.0
17	Endosulfan Sulfate	11.358	1105151	8891.8	120.0
--	Methoxychlor	12.675	0	0.0	0.0
18	Mirex	12.708	1206932	11337.3	120.0
19	Endrin Ketone	12.992	1228492	9990.3	120.0
20	DCB	19.108	1745578	16659.5	-1.0
G2	PCB1016		0	0.0	-1.0
G3	PCB1221		0	0.0	-1.0
G4	PCB1232		0	0.0	-1.0
G5	PCB1242		0	0.0	-1.0
G6	PCB1248		0	0.0	-1.0
G7	PCB1254		0	0.0	-1.0
G8	PCB1260		0	0.0	-1.0



5182

INITIAL CALIBRATION
METHOD EPA 8081

Lab Name : EMAX Inc
Instrument ID : GCTO08 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
LFID & Datetime: sb07002A 02/08/06 16:21
LFID & Datetime: sb07003A 02/08/06 16:48
LFID & Datetime: sb07004A 02/08/06 17:16
LFID & Datetime: sb07005A 02/08/06 17:44
LFID & Datetime: sb07006A 02/08/06 18:12
CONC UNIT: PPB

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT) 1.0X	2.5X	5.0X	7.5X	10.0X	MEAN	%RSD
Toxaphene	100.00	4005.7	3352.9	3723.2	3227.5	3332.7	3528.4	9.2

2/10/06

INITIAL CALIBRATION
METHOD EPA 8081

Lab Name : EMAX Inc
Instrument ID : GCTO08 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
LFID & Datetime: SB07002B 02/08/06 16:21
LFID & Datetime: SB07003B 02/08/06 16:48
LFID & Datetime: SB07004B 02/08/06 17:16
LFID & Datetime: SB07005B 02/08/06 17:44
LFID & Datetime: SB07006B 02/08/06 18:12
CONC UNIT: PPB

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT) 1.0X	2.5X	5.0X	7.5X	10.0X	MEAN	%RSD
Toxaphene	100.00	7464.5	9752.6	8333.1	8012.7	7267.0	8166.0	12.0

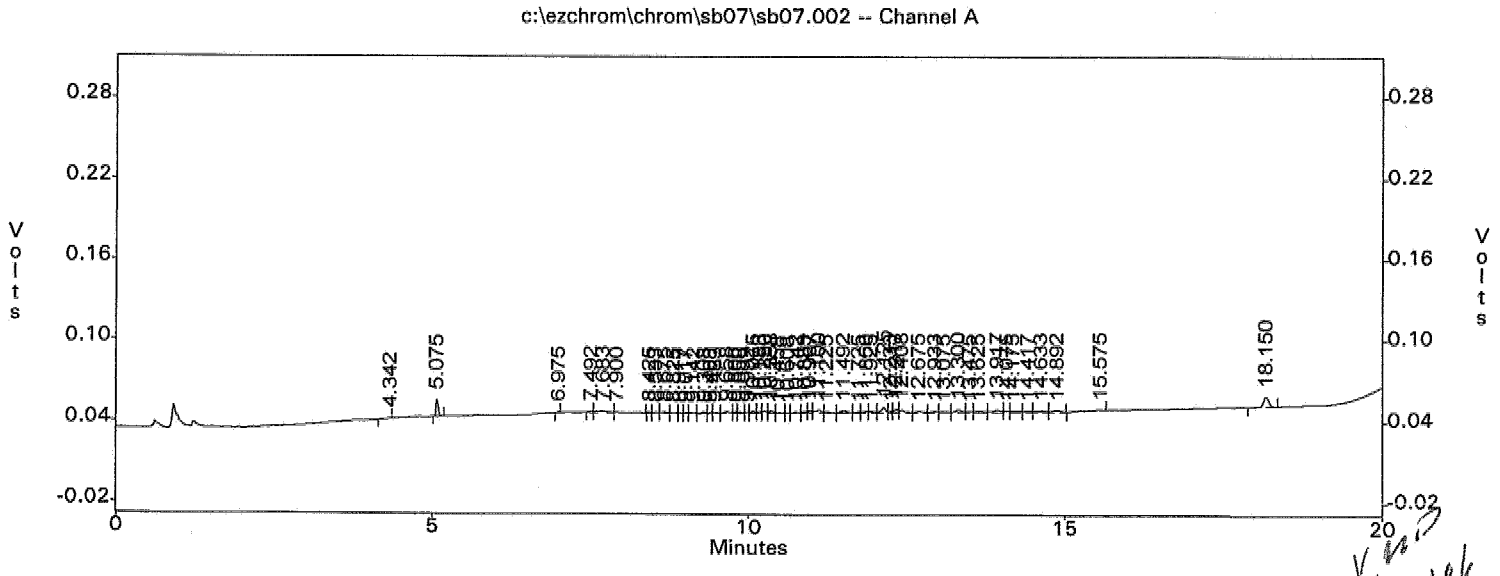
5184

EPA Toxaphene by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.002
Method : c:\ezchrom\methods\to08b07.met
Sample ID : TO08B07 1
Acquired : Feb 08, 2006 16:21:02
Printed : Feb 09, 2006 13:12:25
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	5.075	26295	5084.0	5.0
53	DCB	18.150	42633	8281.4	5.0
G1	TOXAPHENE		400574 ✓	3528.4	100.0



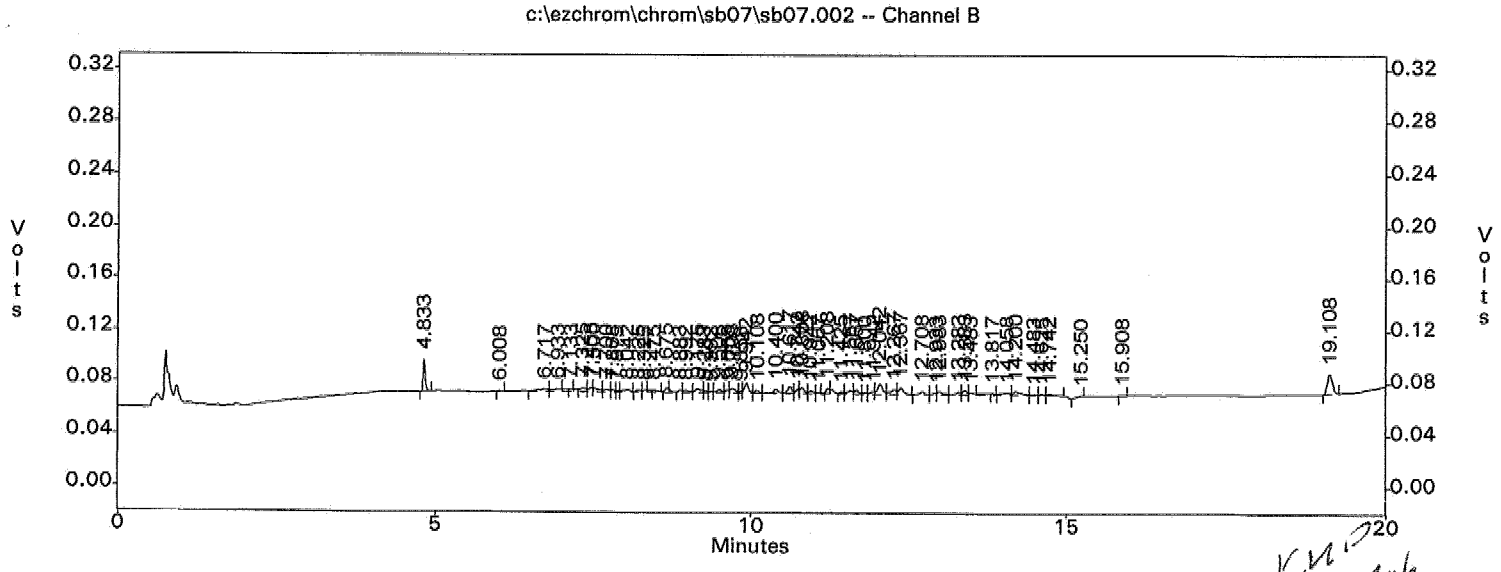
2/10/06

EPA Toxaphene GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.002
Method : c:\ezchrom\methods\to08b07.met
Sample ID : TO08B07 1
Acquired : Feb 08, 2006 16:21:02
Printed : Feb 09, 2006 13:12:25
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	52856	10109.5	5.0
57	DCB	19.108	87482	16403.4	5.0
G1	TOXAPHENE		746451	8166.0	100.0



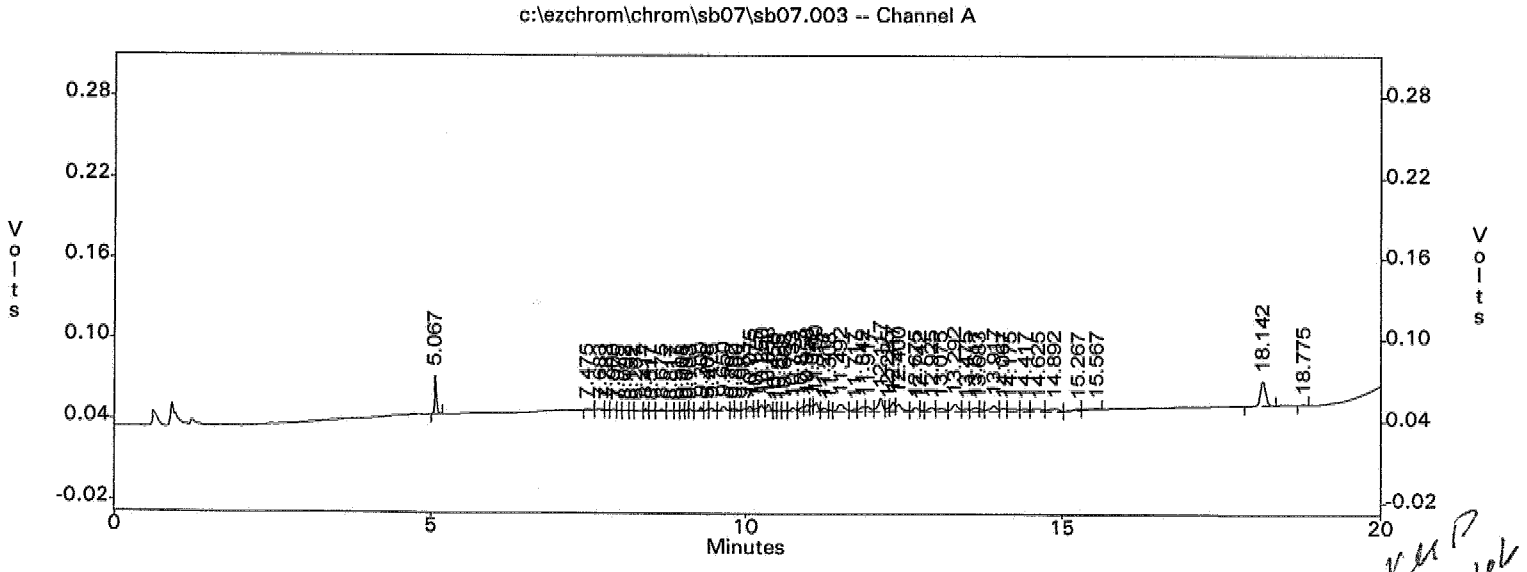
5186

EPA Toxaphene by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.003
Method : c:\ezchrom\methods\to08b07.met
Sample ID : TO08B07 2
Acquired : Feb 08, 2006 16:48:54
Printed : Feb 09, 2006 13:12:32
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.067	63118	5084.0	12.5
63	DCB	18.142	102699	8281.4	12.5
G1	TOXAPHENE		838236	3528.4	250.0



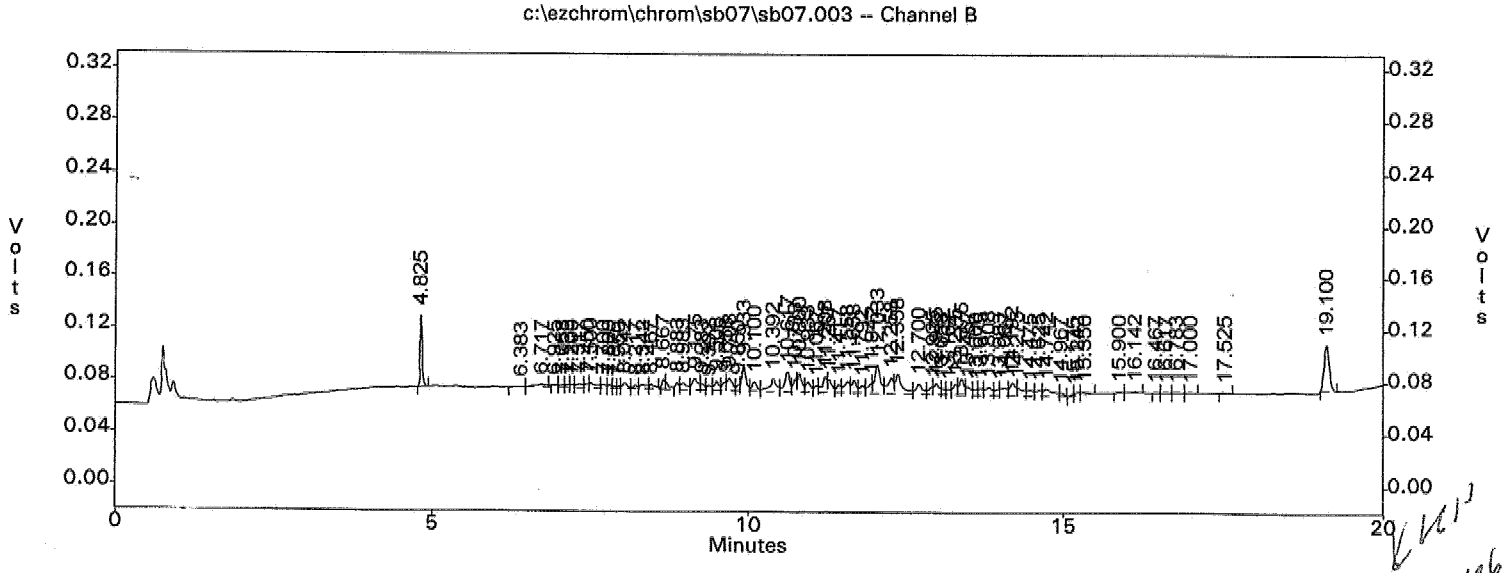
5187

EPA Toxaphene GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.003
Method : c:\ezchrom\methods\to08b07.met
Sample ID : TO08B07 2
Acquired : Feb 08, 2006 16:48:54
Printed : Feb 09, 2006 13:12:33
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.825	126112	10109.5	12.5
76	DCB	19.100	204534	16403.4	12.5
G1	TOXAPHENE		2438160	8166.0	250.0

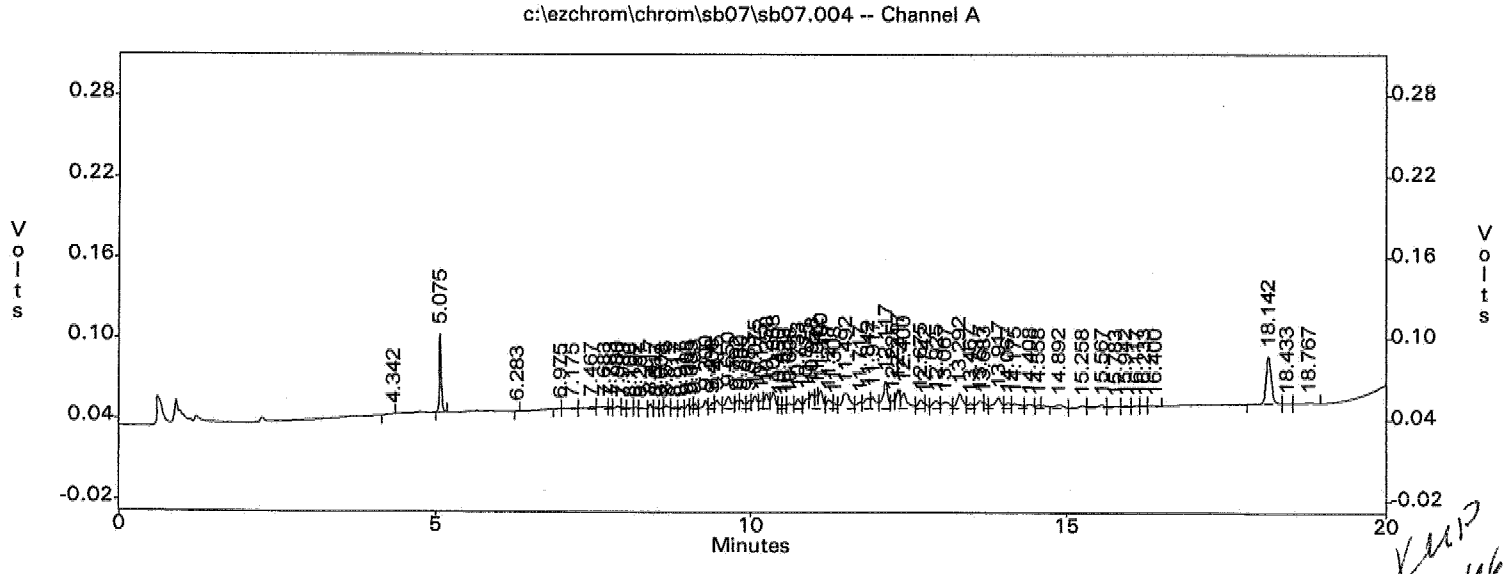


EPA Toxaphene by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.004
Method : c:\ezchrom\methods\to08b07.met
Sample ID : TO08B07 3
Acquired : Feb 08, 2006 17:16:46
Printed : Feb 09, 2006 13:12:39
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	5.075	125564	5084.0	25.0
73	DCB	18.142	206332	8281.4	25.0
G1	TOXAPHENE		1861604	3528.4	500.0



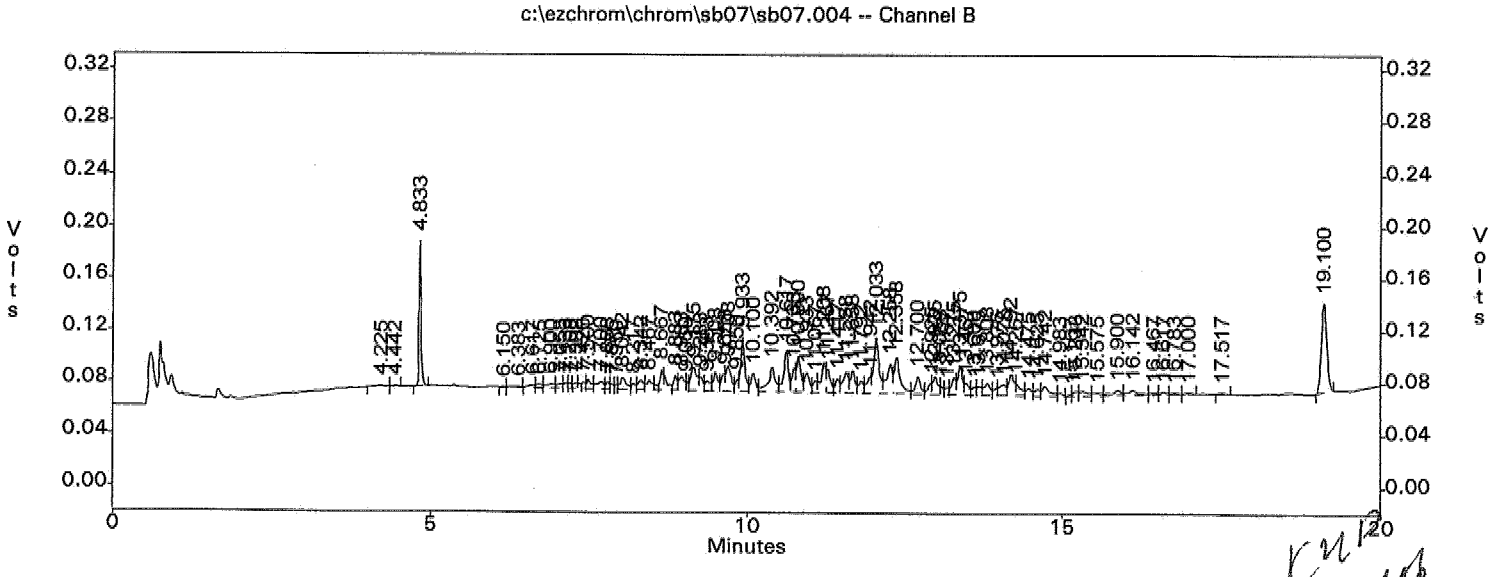
KMP 2/10/06

EPA Toxaphene GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.004
Method : c:\ezchrom\methods\to08b07.met
Sample ID : TO08B07 3
Acquired : Feb 08, 2006 17:16:46
Printed : Feb 09, 2006 13:12:40
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
3	TCX	4.833	251071	10109.5	25.0
82	DCB	19.100	420122	16403.4	25.0
G1	TOXAPHENE		4166540	8166.0	500.0



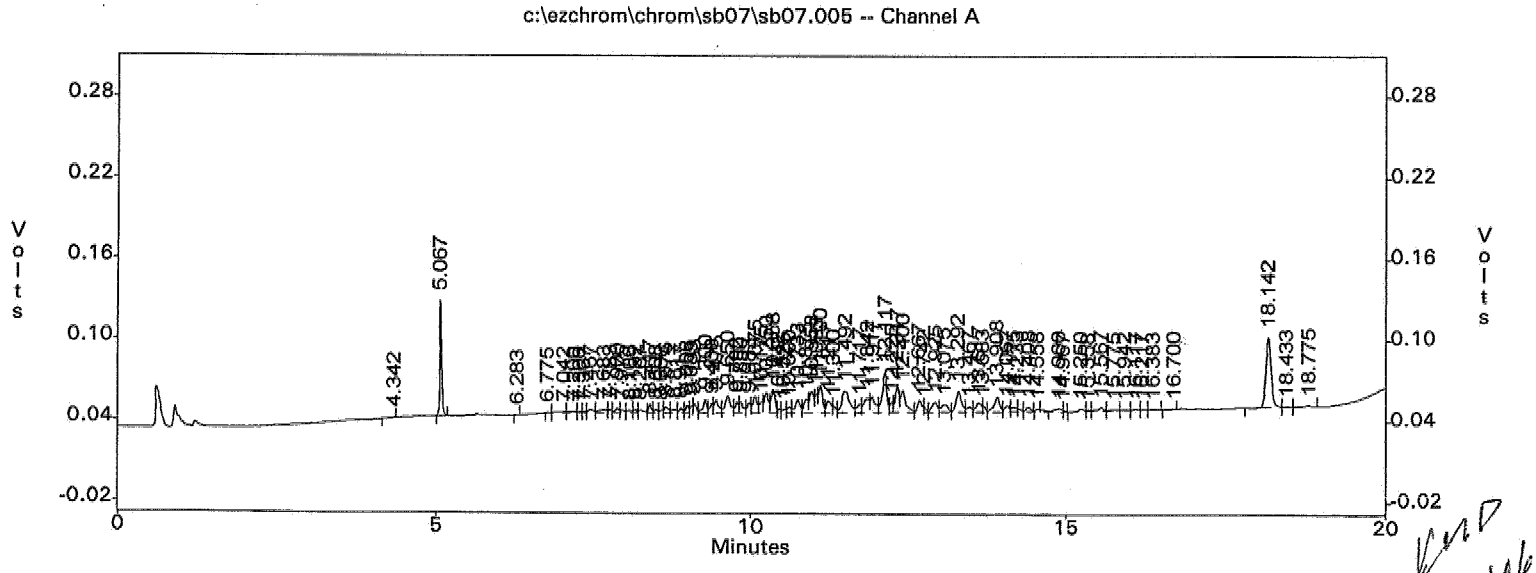
5190

EPA Toxaphene by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.005
Method : c:\ezchrom\methods\to08b07.met
Sample ID : TO08B07 4
Acquired : Feb 08, 2006 17:44:40
Printed : Feb 09, 2006 13:12:46
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	5.067	189717	5084.0	37.5
80	DCB	18.142	309340	8281.4	37.5
G1	TOXAPHENE		2420633	3528.4	750.0



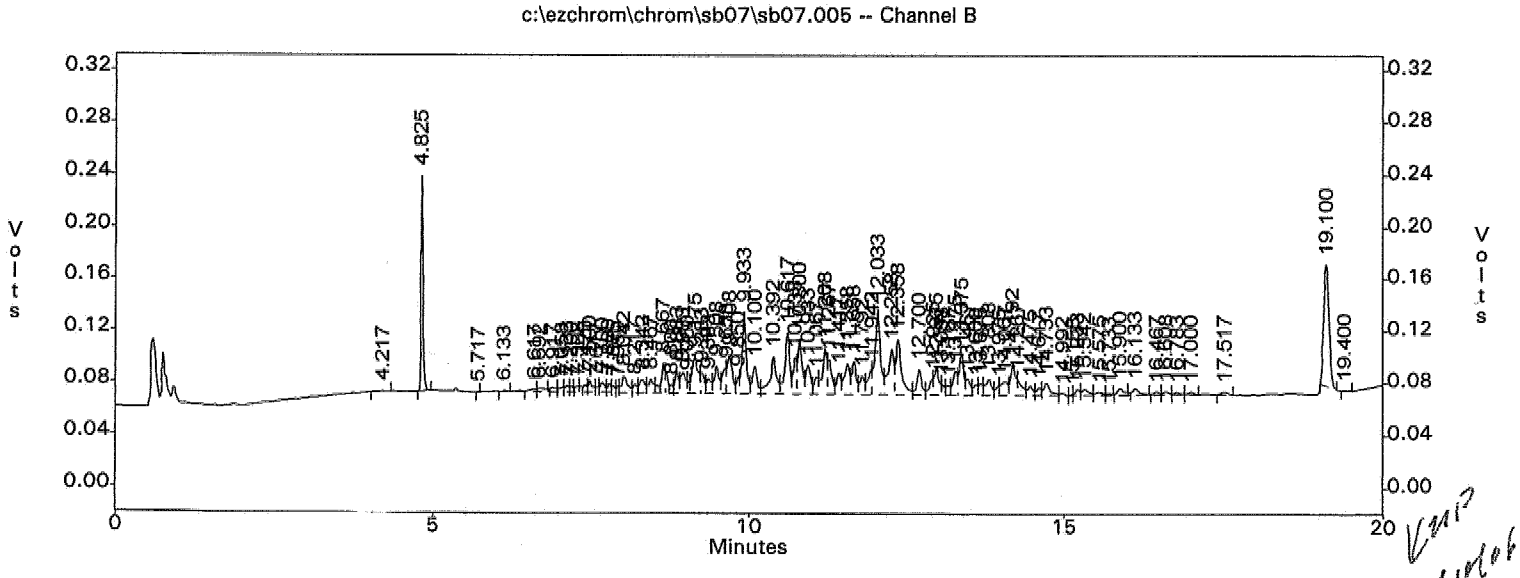
2/10/06

EPA Toxaphene GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.005
Method : c:\ezchrom\methods\to08b07.met
Sample ID : TO08B07 4
Acquired : Feb 08, 2006 17:44:40
Printed : Feb 09, 2006 13:12:46
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.825	374502	10109.5	37.5
84	DCB	19.100	564189	16403.4	37.5
G1	TOXAPHENE		6009539	8166.0	750.0

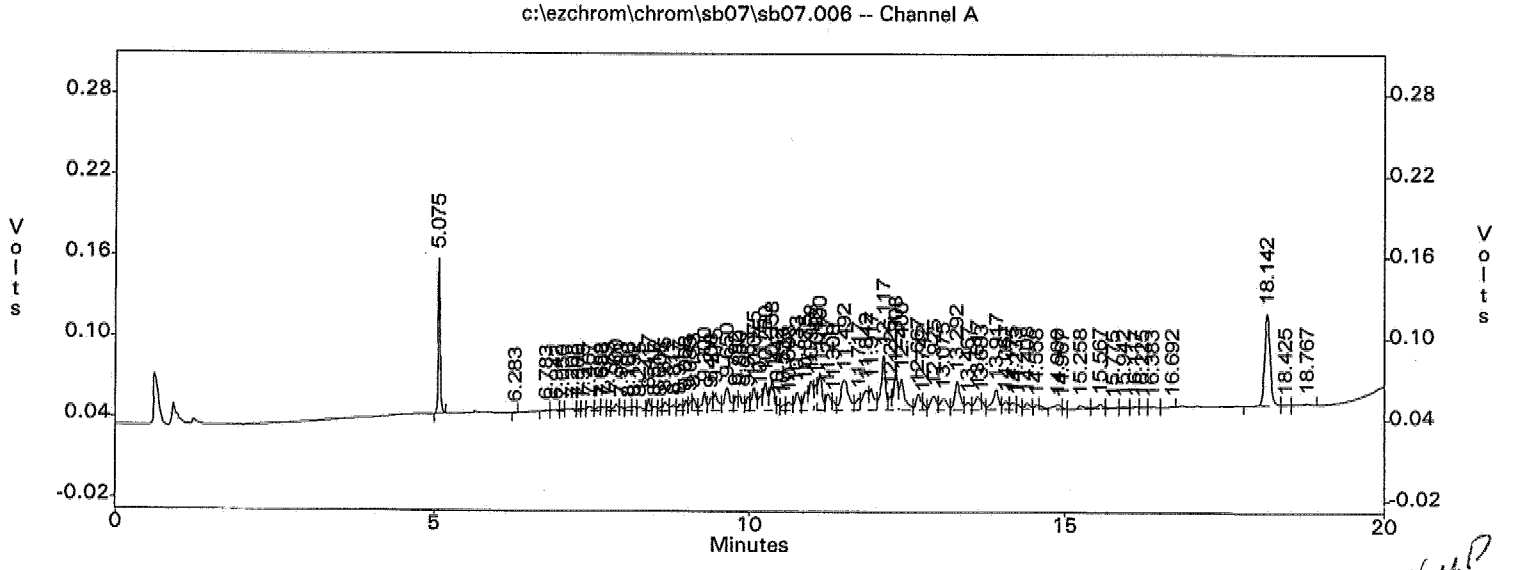


EPA Toxaphene by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.006
Method : c:\ezchrom\methods\to08b07.met
Sample ID : TO08B07 5
Acquired : Feb 08, 2006 18:12:35
Printed : Feb 09, 2006 13:12:51
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	251501	5084.0	50.0
80	DCB	18.142	408107	8281.4	50.0
G1	TOXAPHENE		3332682	3528.4	1000.0



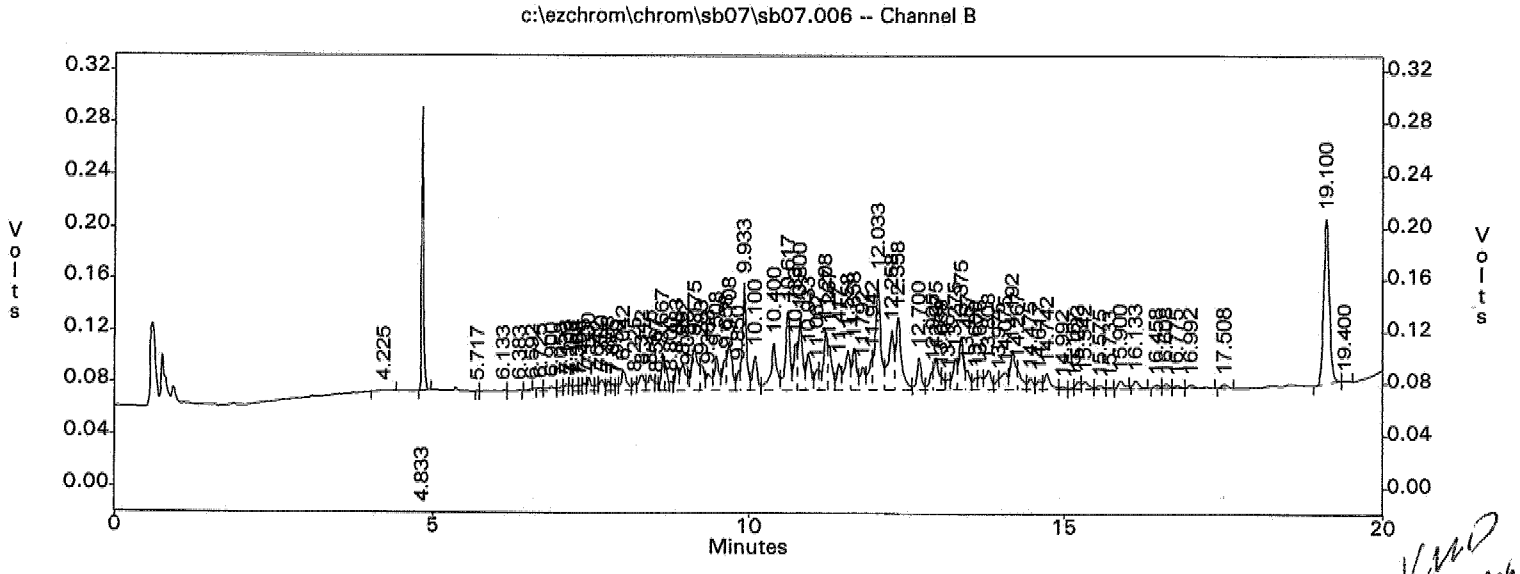
5193

EPA Toxaphene GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.006
Method : c:\ezchrom\methods\to08b07.met
Sample ID : TO08B07 5
Acquired : Feb 08, 2006 18:12:35
Printed : Feb 09, 2006 13:12:52
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.833	492886	10109.5	50.0
87	DCB	19.100	815401	16403.4	50.0
G1	TOXAPHENE		7267017	8166.0	1000.0



INITIAL CALIBRATION
METHOD EPA 8081

Lab Name : EMAX Inc
Instrument ID : GCTO08 HP-5890
GC Columm : RTX-CLPEST
Column size ID : .32MMX30M
LFID & Datetime: SA12034A 01/12/06 10:47
LFID & Datetime: SA12035A 01/12/06 11:12
LFID & Datetime: SA12036A 01/12/06 11:38
LFID & Datetime: SA12037A 01/12/06 12:03
LFID & Datetime: SA12038A 01/12/06 12:29
CONC UNIT: PPB

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT) 1.0X	2.5X	5.0X	7.5X	10.0X	MEAN	%RSD
CHLORDANE	100.00	7158.2	5805.0	5267.8	5060.9	4913.0	5641.0	16.2

KMD 1/17/06

INITIAL CALIBRATION
METHOD EPA 8081

Lab Name : EMAX Inc
Instrument ID : GCTO08 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
LFID & Datetime: SA12034B 01/12/06 10:47
LFID & Datetime: SA12035B 01/12/06 11:12
LFID & Datetime: SA12036B 01/12/06 11:38
LFID & Datetime: SA12037B 01/12/06 12:03
LFID & Datetime: SA12038B 01/12/06 12:29
CONC UNIT: PPB

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT) 1.0X	2.5X	5.0X	7.5X	10.0X	MEAN	%RSD
CHLORDANE	100.00	8598.5	7660.8	7721.8	7577.5	7497.9	7811.3	5.7

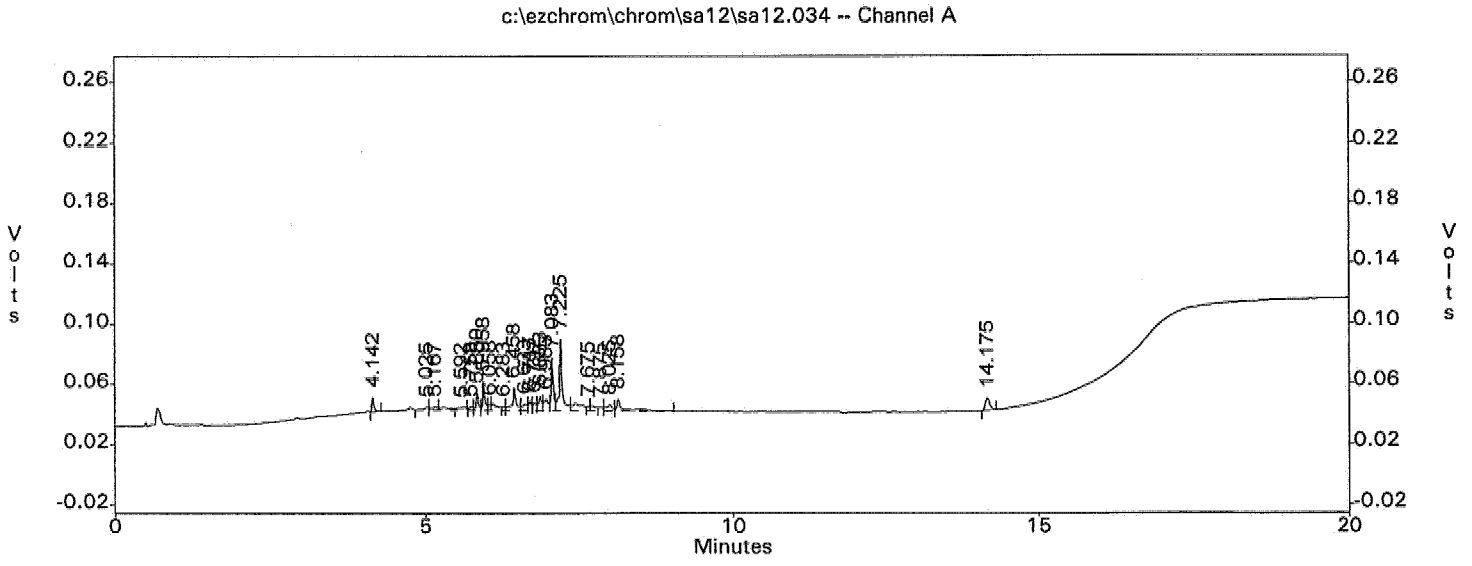
KMP 4/17/06

EPA Chlordane by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.034
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CR08A12 1
Acquired : Jan 12, 2006 10:47:30
Printed : Jan 12, 2006 16:00:02
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.142	23918	4817.5	5.0
22	DCB	14.175	41398	8034.3	5.0
G1	CHLORDANE		715820	5641.0	100.0



KMP 1/17/06

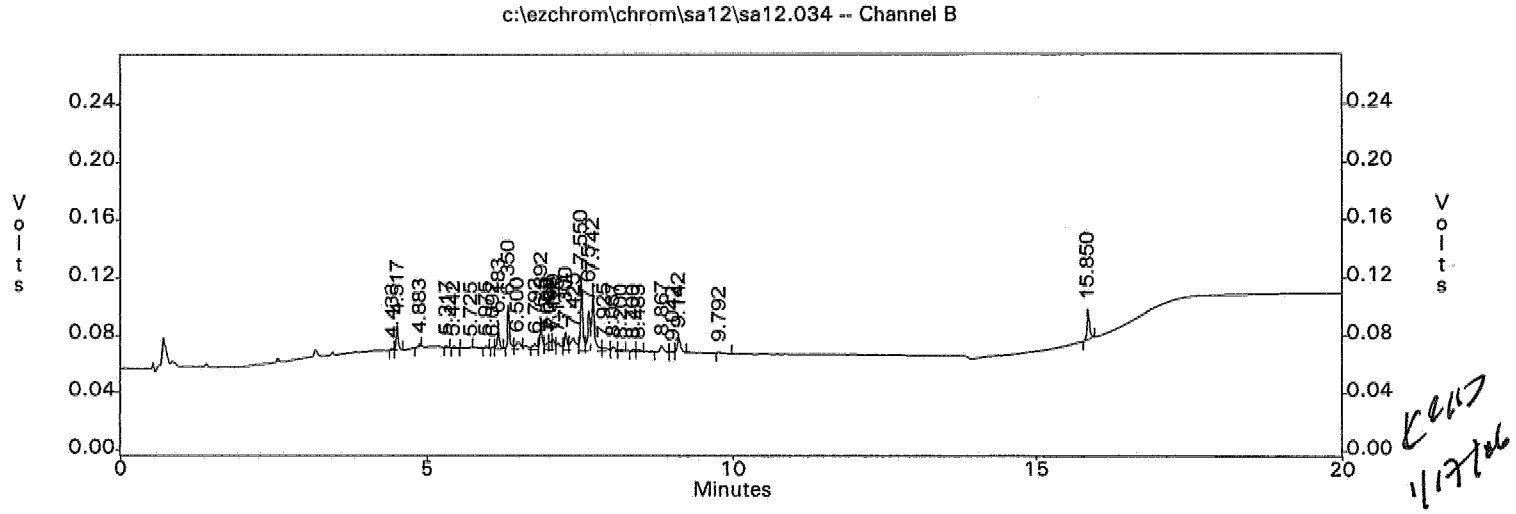
5197

EPA Chlordane GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.034
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CR08A12 1
Acquired : Jan 12, 2006 10:47:30
Printed : Jan 12, 2006 16:00:03
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.517	41133	7938.4	5.0
32	DCB	15.850	60842	11345.7	5.0
G1	CHLORDANE		859845	7811.3	100.0



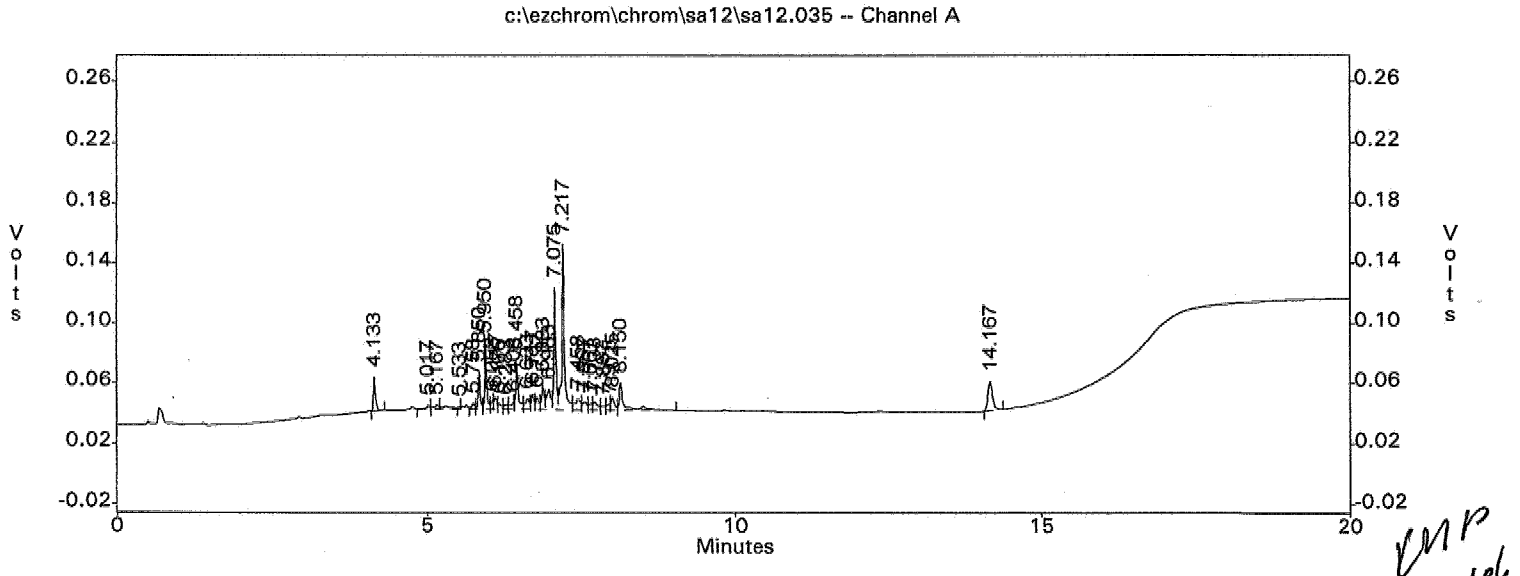
KCH 1/17/06

EPA Chlordane by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.035
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CR08A12 2
Acquired : Jan 12, 2006 11:12:48
Printed : Jan 12, 2006 16:00:17
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.133	58036	4817.5	12.5
29	DCB	14.167	100635	8034.3	12.5
G1	CHLORDANE		1451261	5641.0	250.0



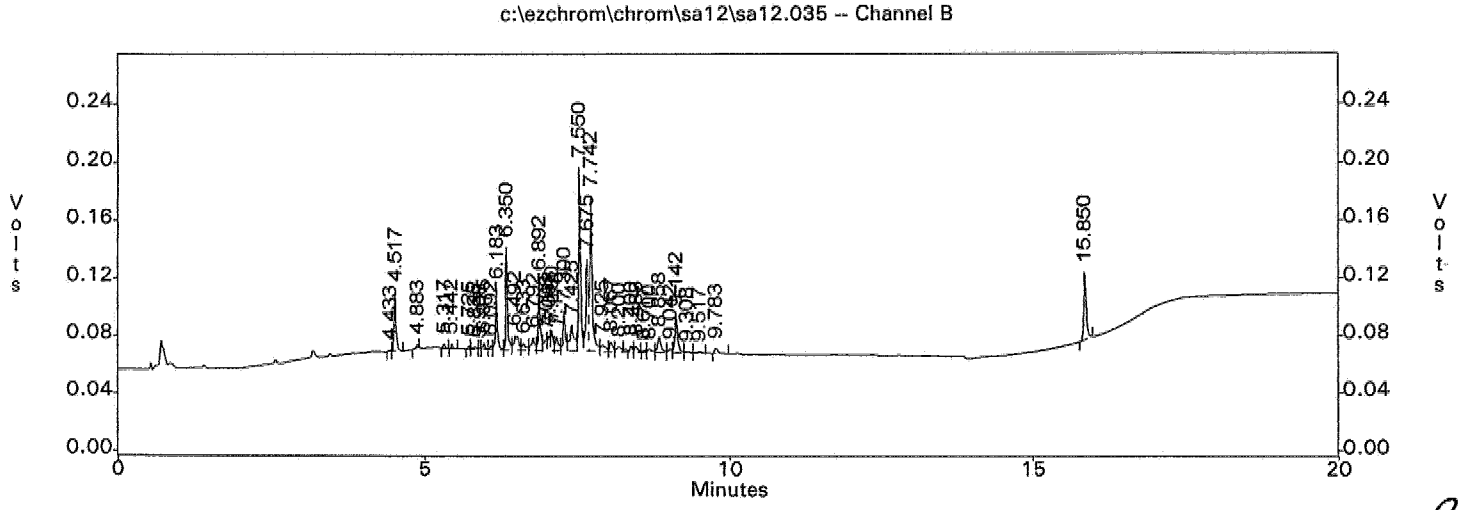
EMP 1/17/06

EPA Chlordane GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.035
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CR08A12 2
Acquired : Jan 12, 2006 11:12:48
Printed : Jan 12, 2006 16:00:17
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.517	98047	7938.4	12.5
39	DCB	15.850	142311	11345.7	12.5
G1	CHLORDANE		1915198	7811.3	250.0



EKD 1/17/06

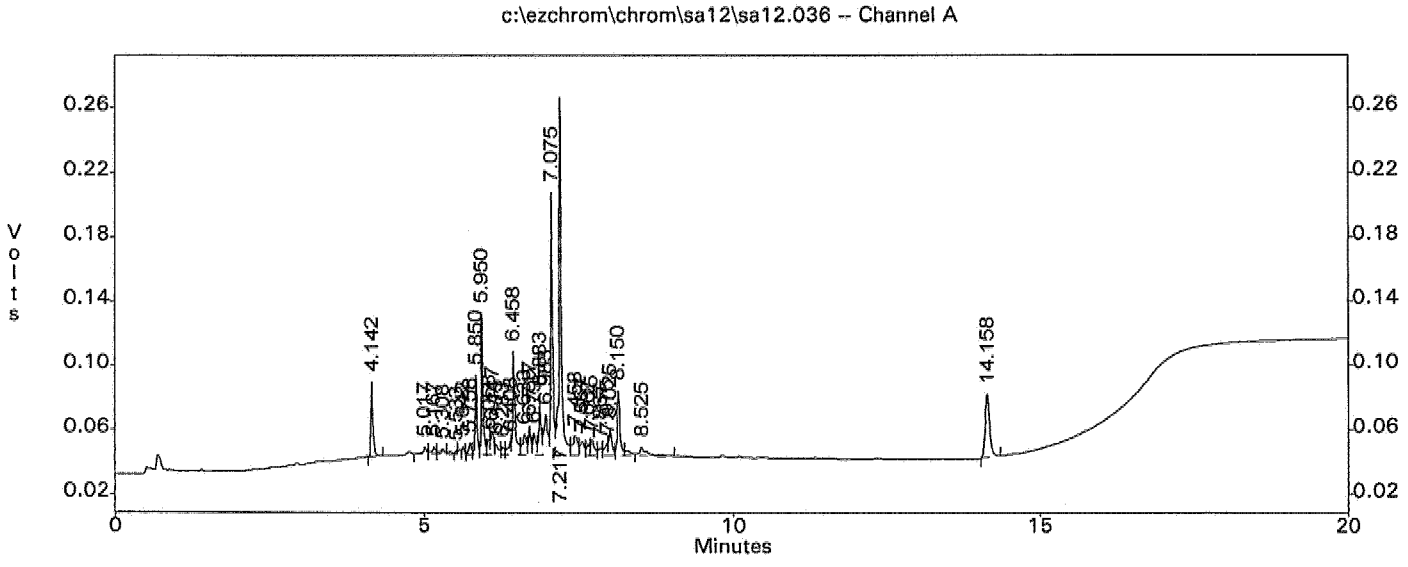
5200

EPA Chlordane by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.036
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CR08A12 3
Acquired : Jan 12, 2006 11:38:29
Printed : Jan 12, 2006 16:00:38
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.142	120024	4817.5	25.0
32	DCB	14.158	202669	8034.3	25.0
G1	CHLORDANE		2633905	5641.0	500.0



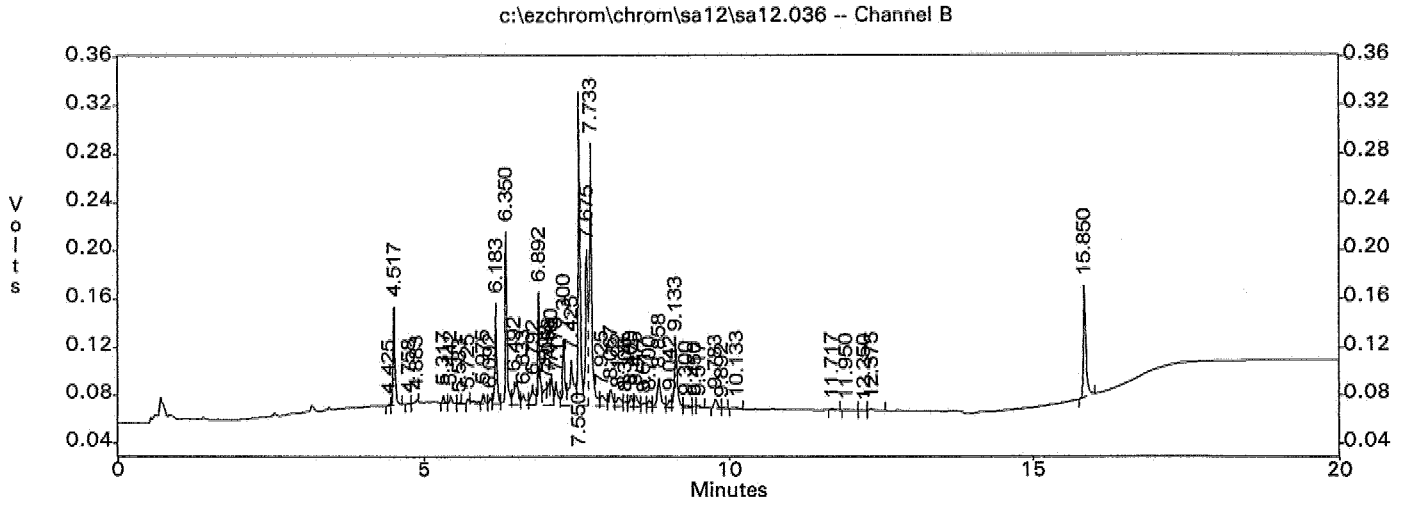
KHP 1/17/06

EPA Chlordane GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.036
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CR08A12 3
Acquired : Jan 12, 2006 11:38:29
Printed : Jan 12, 2006 16:00:38
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.517	195080	7938.4	25.0
47	DCB	15.850	282146	11345.7	25.0
G1	CHLORDANE		3860891	7811.3	500.0



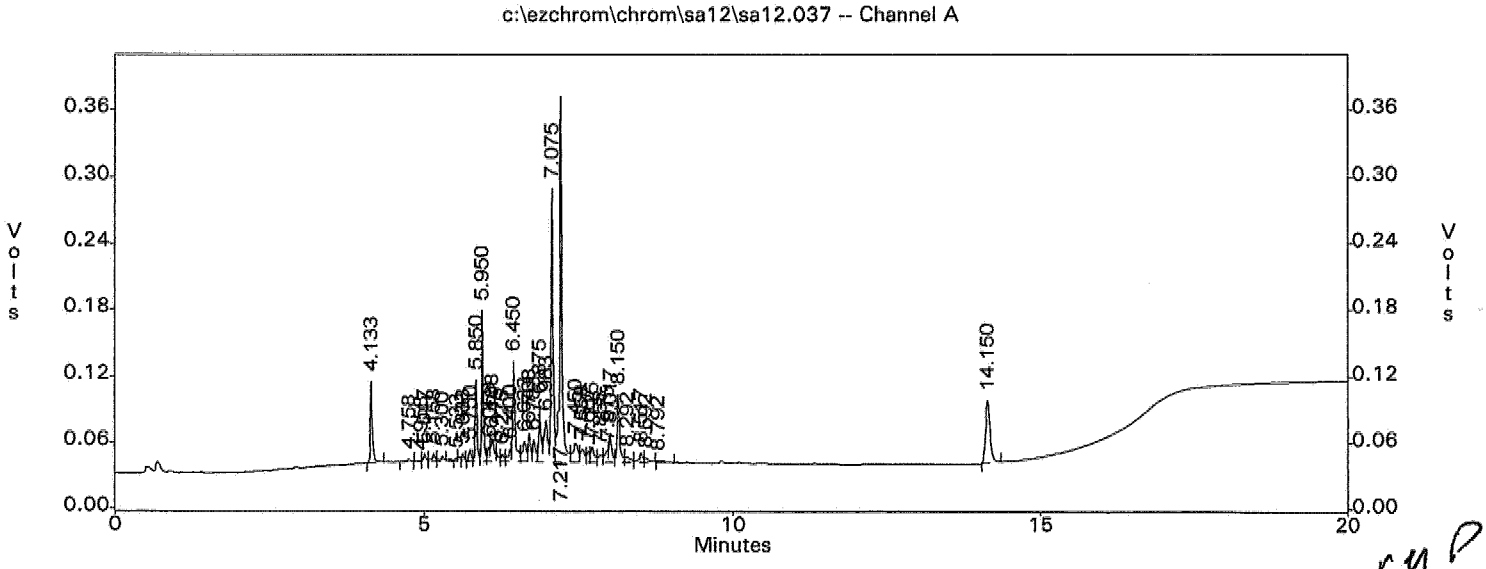
1/17/06

EPA Chlordane by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.037
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CR08A12 4
Acquired : Jan 12, 2006 12:03:47
Printed : Jan 12, 2006 16:00:48
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.133	184742	4817.5	37.5
37	DCB	14.150	299218	8034.3	37.5
G1	CHLORDANE		3795694	5641.0	750.0



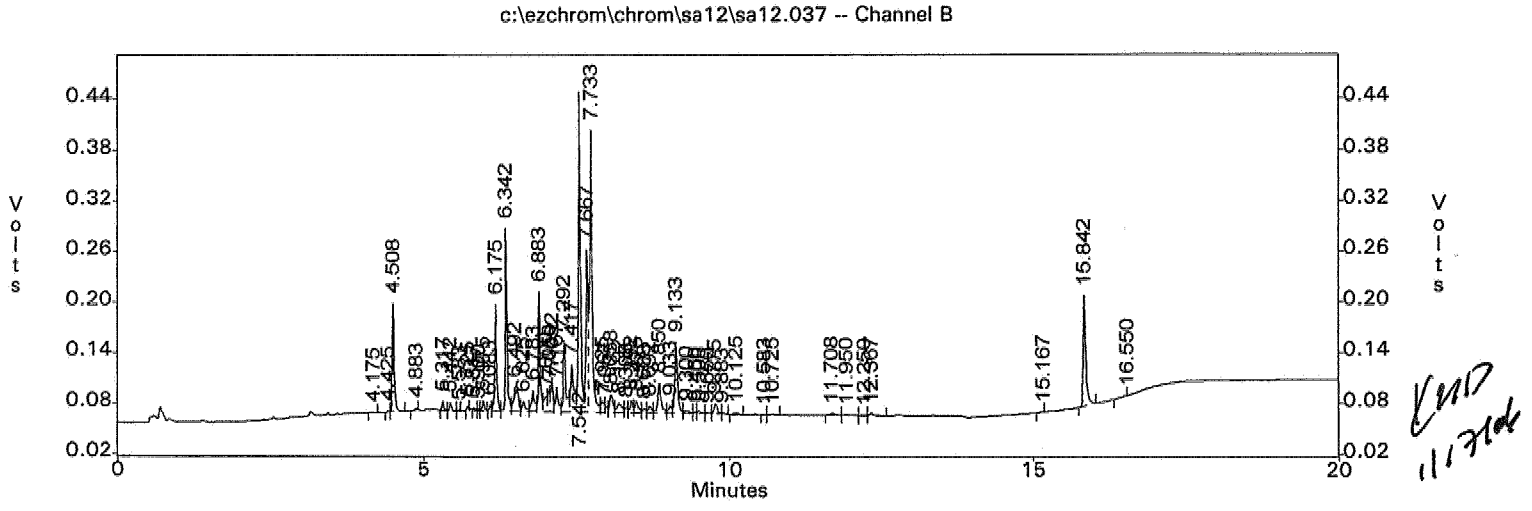
1/17/06

EPA Chlordane GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.037
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CR08A12 4
Acquired : Jan 12, 2006 12:03:47
Printed : Jan 12, 2006 16:00:49
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
3	TCX	4.508	297548	7938.4	37.5
54	DCB	15.842	415442	11345.7	37.5
G1	CHLORDANE		5683095	7811.3	750.0



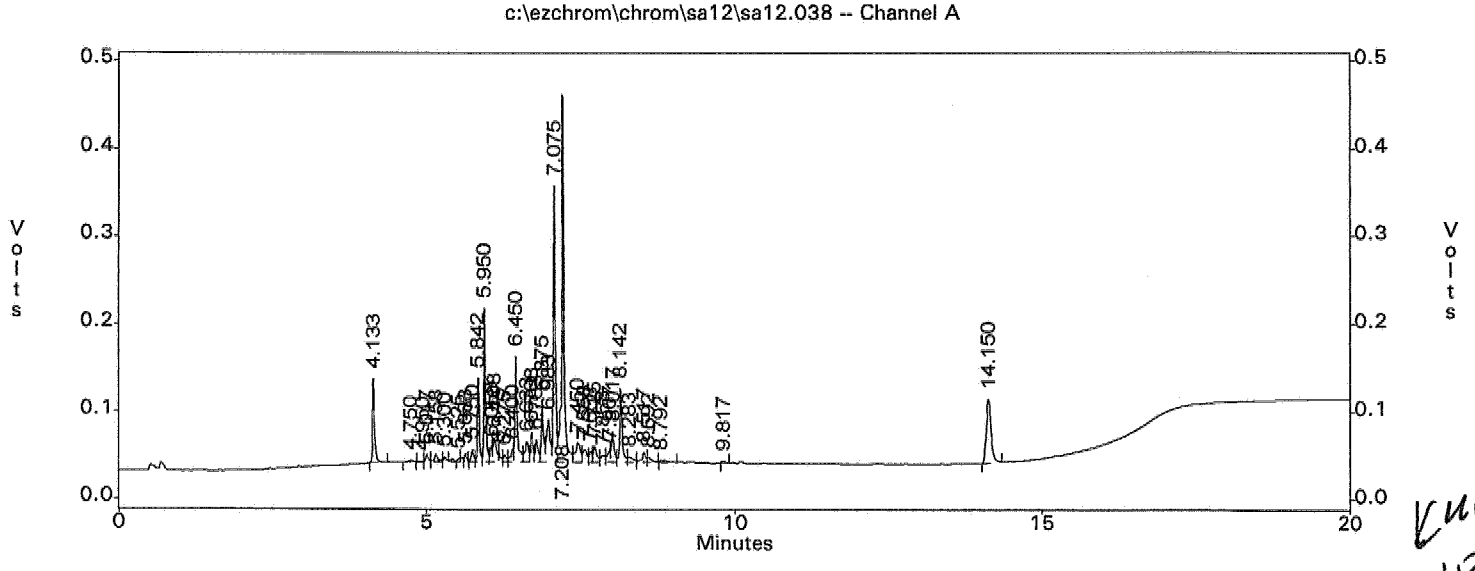
5204

EPA Chlordane by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.038
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CR08A12 5
Acquired : Jan 12, 2006 12:29:04
Printed : Jan 12, 2006 16:00:59
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.133	246678	4817.5	50.0
38	DCB	14.150	387749	8034.3	50.0
G1	CHLORDANE		4913018	5641.0	1000.0

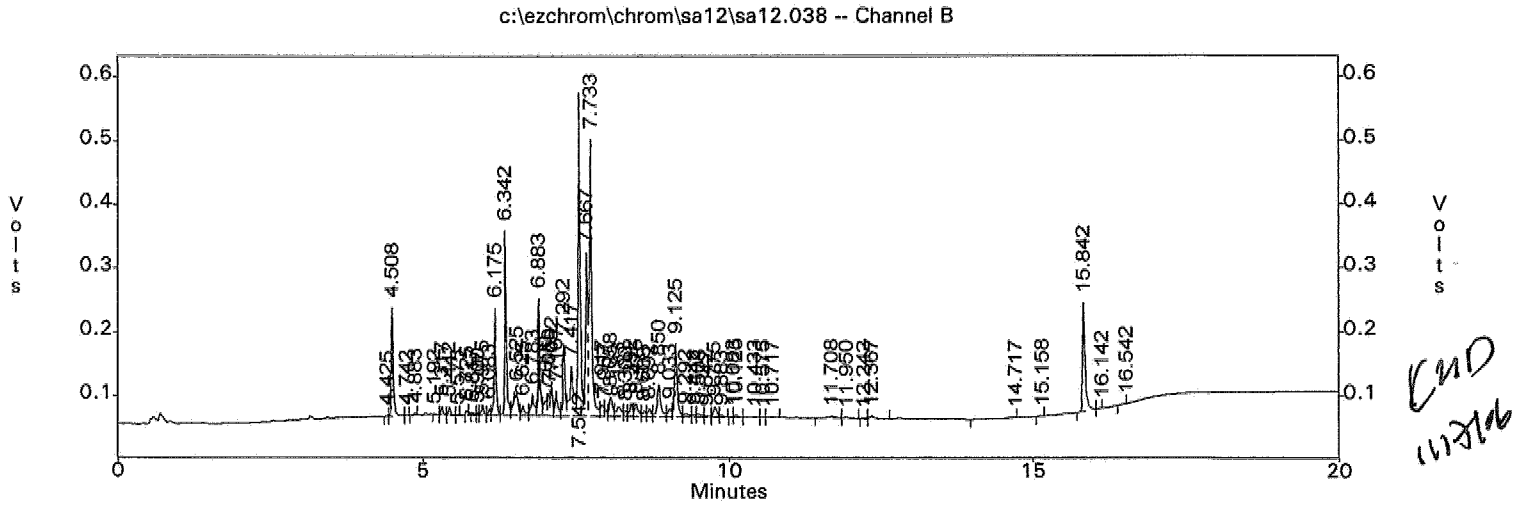


EPA Chlordane GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.038
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CR08A12 5
Acquired : Jan 12, 2006 12:29:04
Printed : Jan 12, 2006 16:01:00
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.508	394182	7938.4	50.0
58	DCB	15.842	540547	11345.7	50.0
G1	CHLORDANE		7497901	7811.3	1000.0



END 1/13/06

SECOND SOURCE VERIFICATION

CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07024A 02/09/2006 02:33
Mid Conc Init LFID & Datetime: SB07025A 02/09/2006 03:01
Conc Cont LFID & Datetime: SB07030A 02/09/2006 05:20
Conc Cont LFID & Datetime: SB07031A 02/09/2006 05:48
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	5.642	5.538	5.746	20.0	7654.5	176028	23.00	15		15
alpha-BHC	5.900	5.796	6.004	20.0	4718.6	108568	23.01	15		15
gamma-BHC	6.317	6.213	6.421	20.0	4577.1	103177	22.54	13		15
beta-BHC	6.450	6.346	6.554	20.0	2251.3	51839	23.03	15		15
Heptachlor	6.883	6.767	6.999	20.0	5673.9	119161	21.00	5		15
delta-BHC	6.650	6.573	6.727	20.0	4546.6	91285	20.08	0		15
Aldrin	7.225	7.121	7.329	20.0	4104.3	93284	22.73	14		15
Heptachlor Epoxide	8.050	7.973	8.127	20.0	4737.9	103564	21.86	9		15
gamma-Chlordane	8.242	8.165	8.319	20.0	4582.0	104654	22.84	14		15
alpha-Chlordane	8.458	8.381	8.535	20.0	4899.1	103549	21.14	6		15
Endosulfan I	8.675	8.559	8.791	20.0	4799.1	104572	21.79	9		15
DDE	8.633	8.556	8.710	40.0	4499.6	187093	41.58	4		15
Dieldrin	9.125	9.009	9.241	40.0	4768.4	208646	43.76	9		15
Endrin	9.592	9.476	9.708	40.0	3501.3	153581	43.86	10		15
DDD	9.833	9.717	9.949	40.0	3323.1	143284	43.12	8		15
Endosulfan II	10.100	10.023	10.177	40.0	4435.5	199857	45.06	13		15
DDT	10.500	10.384	10.616	40.0	4201.4	172752	41.12	3		15
Endrin Aldehyde	11.200	11.123	11.277	40.0	4184.1	176036	42.07	5		15
Endosulfan Sulfate	12.525	12.421	12.629	40.0	3968.4	178932	45.09	13		15
Methoxychlor	12.017	11.930	12.104	200.0	2466.7	515397	208.94	4		15
Mirex	12.008	11.904	12.112	40.0	5755.7	231336	40.19	0		15
Endrin Ketone	13.417	13.313	13.521	40.0	4326.9	196877	45.50	14		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	5.075	4.971	5.179	20.0	4651.2	98863	21.25	6		15
DCB	18.158	18.070	18.246	40.0	7628.6	326738	42.83	7		15

KMP 2/10/06

CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07024B 02/09/2006 02:33
Mid Conc Init LFID & Datetime: SB07025B 02/09/2006 03:01
Conc Cont LFID & Datetime: SB07030B 02/09/2006 05:20
Conc Cont LFID & Datetime: SB07031B 02/09/2006 05:48
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	5.500	5.413	5.587	20.0	16480.6	375146	22.76	14		15
alpha-BHC	5.717	5.630	5.804	20.0	11413.9	262564	23.00	15		15
gamma-BHC	6.167	6.110	6.224	20.0	10790.5	247455	22.93	15		15
beta-BHC	6.292	6.241	6.343	20.0	4742.8	108908	22.96	15		15
Heptachlor	6.658	6.600	6.716	20.0	12376.0	259736	20.99	5		15
delta-BHC	6.617	6.588	6.646	20.0	10503.0	215242	20.49	2		15
Aldrin	7.008	6.958	7.058	20.0	9456.0	214935	22.73	14		15
Heptachlor Epoxide	7.700	7.650	7.750	20.0	10303.2	222183	21.56	8		15
gamma-Chlordane	7.958	7.929	7.987	20.0	10156.1	229958	22.64	13		15
alpha-Chlordane	8.183	8.154	8.212	20.0	11130.5	233610	20.99	5		15
Endosulfan I	8.242	8.185	8.299	20.0	11000.8	238867	21.71	9		15
DDE	8.517	8.488	8.546	40.0	9384.4	428786	45.69	14		15
Dieldrin	8.700	8.650	8.750	40.0	10685.9	477612	44.70	12		15
Endrin	9.267	9.217	9.317	40.0	7892.7	350462	44.40	11		15
DDD	9.658	9.608	9.708	40.0	7117.7	323967	45.52	14		15
Endosulfan II	9.733	9.704	9.762	40.0	9951.8	446083	44.83	12		15
DDT	10.408	10.379	10.437	40.0	9053.6	403315	44.55	11		15
Endrin Aldehyde	10.583	10.554	10.612	40.0	8639.9	375908	43.51	9		15
Endosulfan Sulfate	11.358	11.329	11.387	40.0	8891.8	397761	44.73	12		15
Methoxychlor	12.675	12.625	12.725	200.0	5002.2	1048312	209.57	5		15
Mirex	12.708	12.679	12.737	40.0	11337.3	459759	40.55	1		15
Endrin Ketone	12.992	12.963	13.021	40.0	9990.3	453810	45.42	14		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	4.833	4.756	4.910	20.0	9286.2	201904	21.74	9		15
DCB	19.108	19.058	19.158	40.0	16659.5	665377	39.94	-0		15

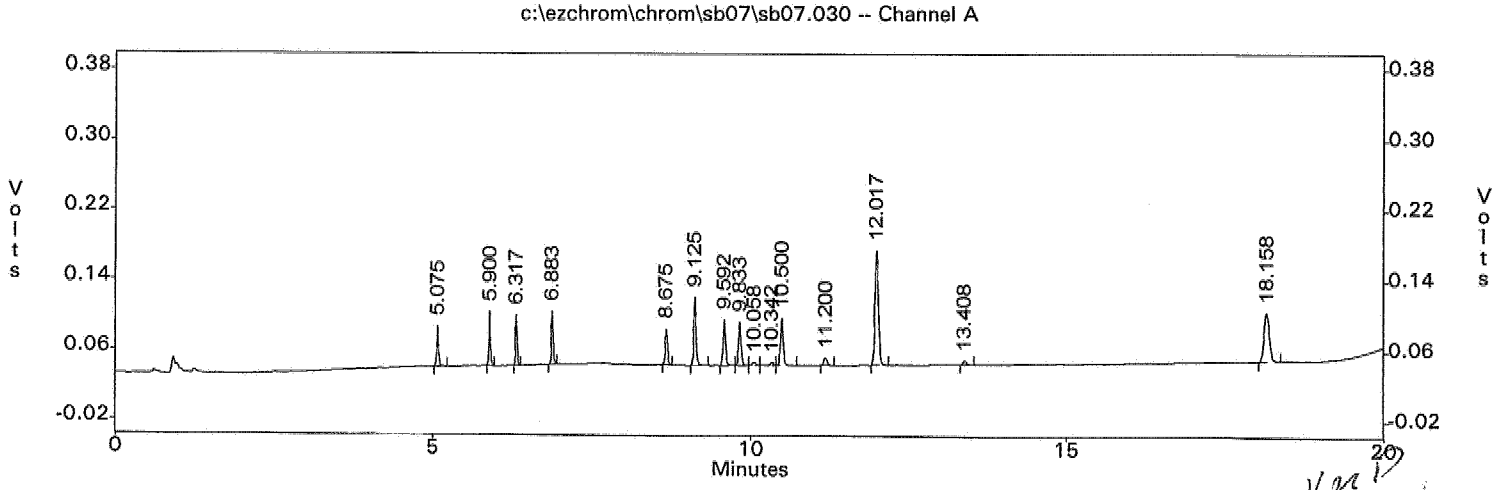
KMD 3-10-06

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.030
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : ICP08B07A
Acquired : Feb 09, 2006 05:20:30
Printed : Feb 09, 2006 13:32:29
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	98863	4651.2	21.3
--	Hexachlorobenzene	5.642	0	0.0	0.0
2	alpha-BHC	5.900	108568	4718.6	23.0
3	gamma-BHC	6.317	103177	4577.1	22.5
--	beta-BHC	6.450	0	0.0	0.0
--	delta-BHC	6.650	0	0.0	0.0
4	Heptachlor	6.883	119161	5673.9	21.0
--	Aldrin	7.225	0	0.0	0.0
--	Heptachlor Epoxide	8.050	0	0.0	0.0
--	gamma-Chlordane	8.242	0	0.0	0.0
--	alpha-Chlordane	8.450	0	0.0	0.0
--	DDE	8.633	0	0.0	0.0
5	Endosulfan I	8.675	104572	4799.1	21.8
6	Dieldrin	9.125	208646	4768.4	43.8
7	Endrin	9.592	153581	3501.3	43.9
8	DDD	9.833	143284	3323.1	43.1
--	Endosulfan II	10.100	0	0.0	0.0
11	DDT	10.500	172752	4201.4	41.1
12	Endrin Aldehyde	11.200	32157	4184.1	7.7
--	Mirex	12.008	0	0.0	0.0
13	Methoxychlor	12.017	515397	2466.7	208.9
--	Endosulfan Sulfate	12.525	0	0.0	0.0
14	Endrin Ketone	13.408	17760	4326.9	4.1
15	DCB	18.158	326738	7628.6	42.8
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



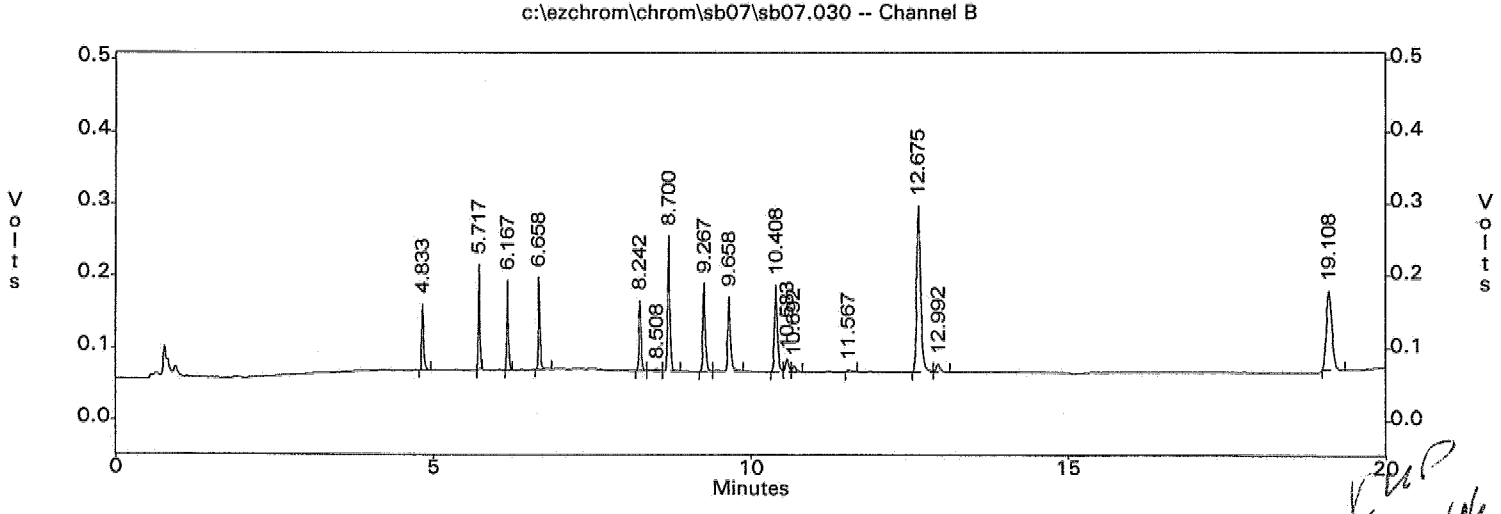
5210

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.030
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : ICP08B07A
Acquired : Feb 09, 2006 05:20:30
Printed : Feb 09, 2006 13:32:29
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	201904	9286.2	21.7
--	Hexachlorobenzene	5.500	0	0.0	0.0
2	alpha-BHC	5.717	262564	11413.9	23.0
3	gamma-BHC	6.167	247455	10790.5	22.9
--	beta-BHC	6.292	0	0.0	0.0
--	delta-BHC	6.617	0	0.0	0.0
4	Heptachlor	6.658	259736	12376.0	21.0
--	Aldrin	7.008	0	0.0	0.0
--	Heptachlor Epoxide	7.700	0	0.0	0.0
--	gamma-Chlordane	7.958	0	0.0	0.0
--	alpha-Chlordane	8.175	0	0.0	0.0
5	Endosulfan I	8.242	238867	11000.8	21.7
6	DDE	8.508	15025	9384.4	1.6
7	Dieldrin	8.700	477612	10685.9	44.7
8	Endrin	9.267	350462	7892.7	44.4
9	DDD	9.658	323967	7117.7	45.5
--	Endosulfan II	9.733	0	0.0	0.0
10	DDT	10.408	403315	9053.6	44.5
11	Endrin Aldehyde	10.583	62347	8639.9	7.2
--	Endosulfan Sulfate	11.358	0	0.0	0.0
14	Methoxychlor	12.675	1048312	5002.2	209.6
--	Mirex	12.708	0	0.0	0.0
15	Endrin Ketone	12.992	48547	9990.3	4.9
16	DCB	19.108	665377	16659.5	39.9
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



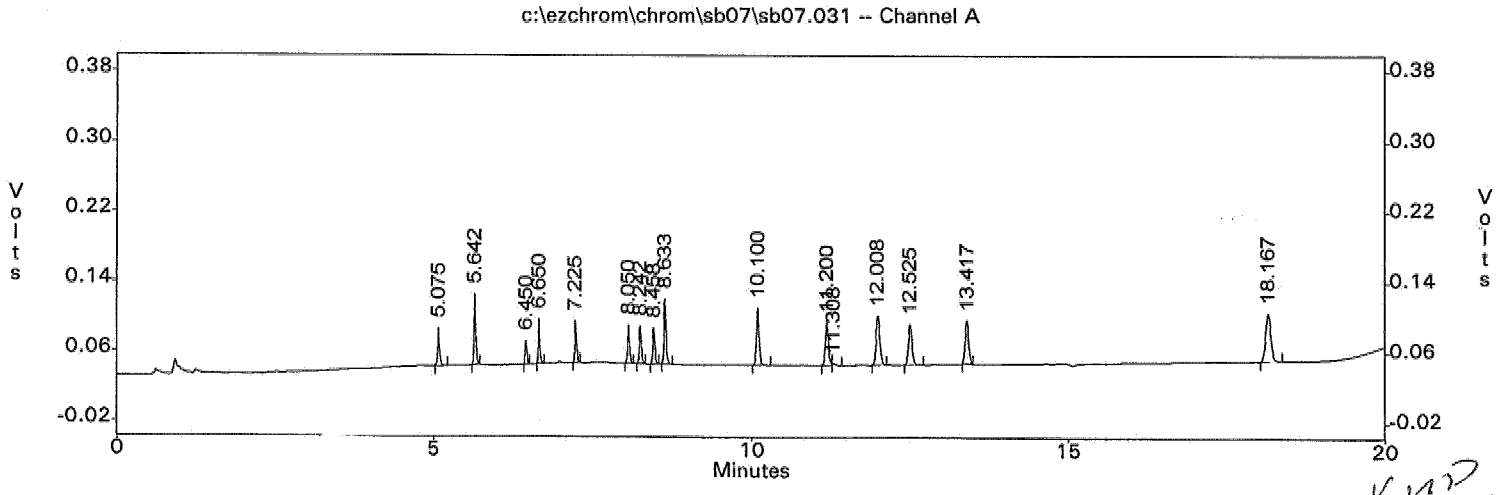
5211

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.031
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : ICP08B07B
Acquired : Feb 09, 2006 05:48:19
Printed : Feb 09, 2006 13:32:49
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	94817	4651.2	20.4
2	Hexachlorobenzene	5.642	176028	7654.5	23.0
--	alpha-BHC	5.900	0	0.0	0.0
--	gamma-BHC	6.317	0	0.0	0.0
3	beta-BHC	6.450	51839	2251.3	23.0
4	delta-BHC	6.650	91285	4546.6	20.1
--	Heptachlor	6.883	0	0.0	0.0
5	Aldrin	7.225	93284	4104.3	22.7
6	Heptachlor Epoxide	8.050	103564	4737.9	21.9
7	gamma-Chlordane	8.242	104654	4582.0	22.8
8	alpha-Chlordane	8.458	103549	4899.1	21.1
9	DDE	8.633	187093	4499.6	41.6
--	Endosulfan I	8.675	0	0.0	0.0
--	Dieldrin	9.125	0	0.0	0.0
--	Endrin	9.583	0	0.0	0.0
--	DDD	9.833	0	0.0	0.0
10	Endosulfan II	10.100	199857	4435.5	45.1
--	DDT	10.500	0	0.0	0.0
11	Endrin Aldehyde	11.200	176036	4184.1	42.1
13	Mirex	12.008	231336	5755.7	40.2
--	Methoxychlor	12.017	0	0.0	0.0
14	Endosulfan Sulfate	12.525	178932	3968.4	45.1
15	Endrin Ketone	13.417	196877	4326.9	45.5
16	DCB	18.167	319511	7628.6	41.9
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



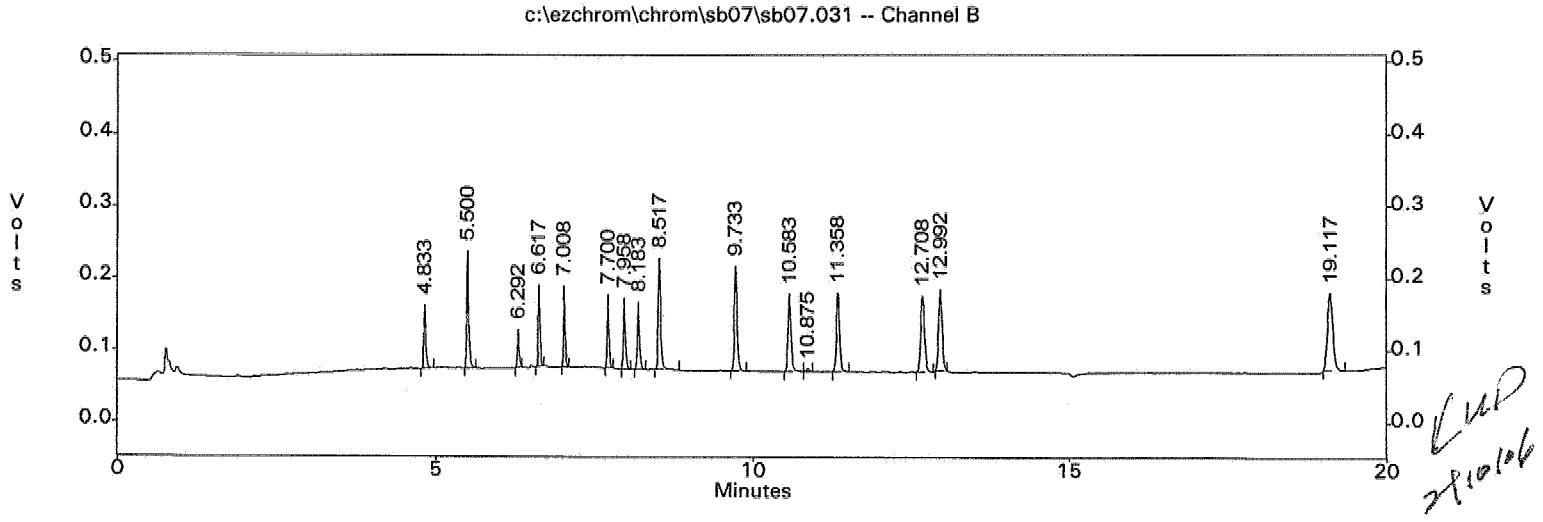
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EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.031
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : ICP08B07B
Acquired : Feb 09, 2006 05:48:19
Printed : Feb 09, 2006 13:32:49
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	192583	9286.2	20.7
2	Hexachlorobenzene	5.500	375146	16480.6	22.8
--	alpha-BHC	5.717	0	0.0	0.0
--	gamma-BHC	6.158	0	0.0	0.0
3	beta-BHC	6.292	108908	4742.8	23.0
4	delta-BHC	6.617	215242	10503.0	20.5
--	Heptachlor	6.658	0	0.0	0.0
5	Aldrin	7.008	214935	9456.0	22.7
6	Heptachlor Epoxide	7.700	222183	10303.2	21.6
7	gamma-Chlordane	7.958	229958	10156.1	22.6
8	alpha-Chlordane	8.183	233610	11130.5	21.0
--	Endosulfan I	8.242	0	0.0	0.0
9	DDE	8.517	428786	9384.4	45.7
--	Dieldrin	8.700	0	0.0	0.0
--	Endrin	9.258	0	0.0	0.0
--	DDD	9.658	0	0.0	0.0
10	Endosulfan II	9.733	446083	9951.8	44.8
--	DDT	10.408	0	0.0	0.0
11	Endrin Aldehyde	10.583	375908	8639.9	43.5
13	Endosulfan Sulfate	11.358	397761	8891.8	44.7
--	Methoxychlor	12.675	0	0.0	0.0
14	Mirex	12.708	459759	11337.3	40.6
15	Endrin Ketone	12.992	453810	9990.3	45.4
16	DCB	19.117	658576	16659.5	39.5
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



5213

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07004A 02/08/2006 17:16
Conc Cont LFID & Datetime: SB07032A 02/09/2006 06:16
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	3528.4	1670985	473.58	-5		15

KMD 2/10/06

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07004B 02/08/2006 17:16
Conc Cont LFID & Datetime: SB07032B 02/09/2006 06:16
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	8166.0	4420918	541.38	8		15

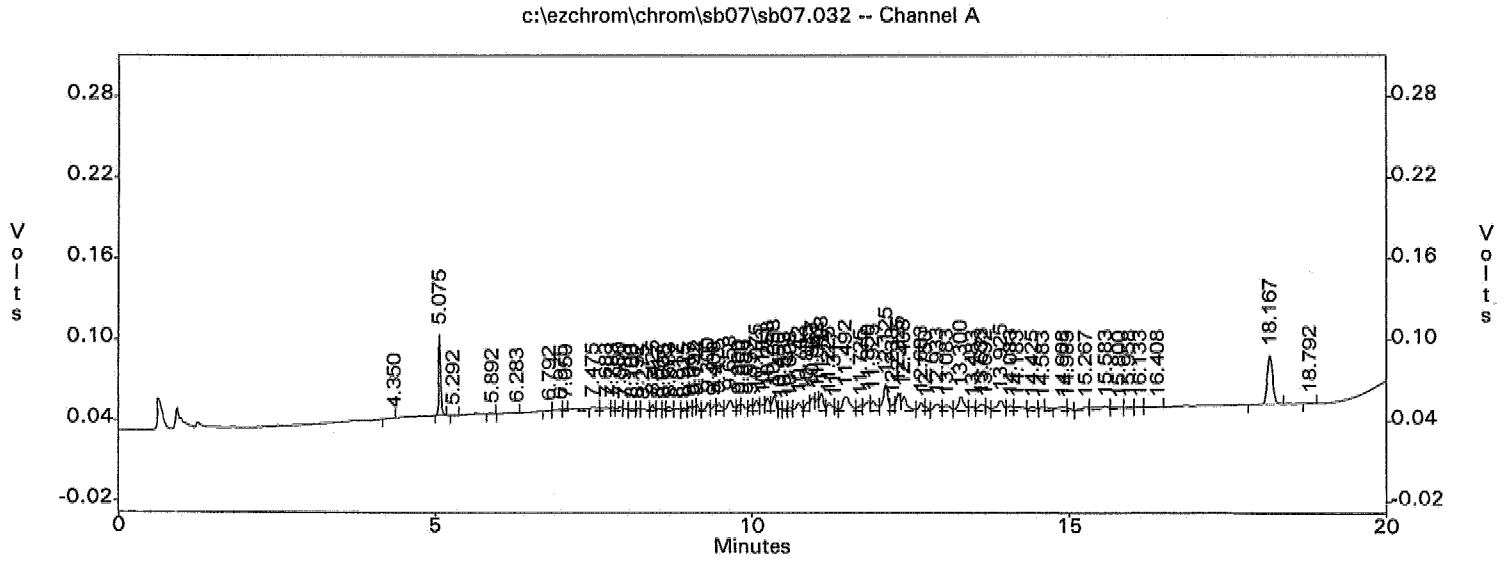
KLP
2/10/06

EPA Toxaphene by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.032
Method : c:\ezchrom\methods\to08b07.met
Sample ID : ITO08B07
Acquired : Feb 09, 2006 06:16:07
Printed : Feb 09, 2006 13:13:02
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF		ESTD Conc.(ppb)
2	TCX	5.075	129207	5084.0		25.4
76	DCB	18.167	213694	8281.4		25.8
G1	TOXAPHENE		1670985	3528.4	✓	473.6



KMP 2/10/06

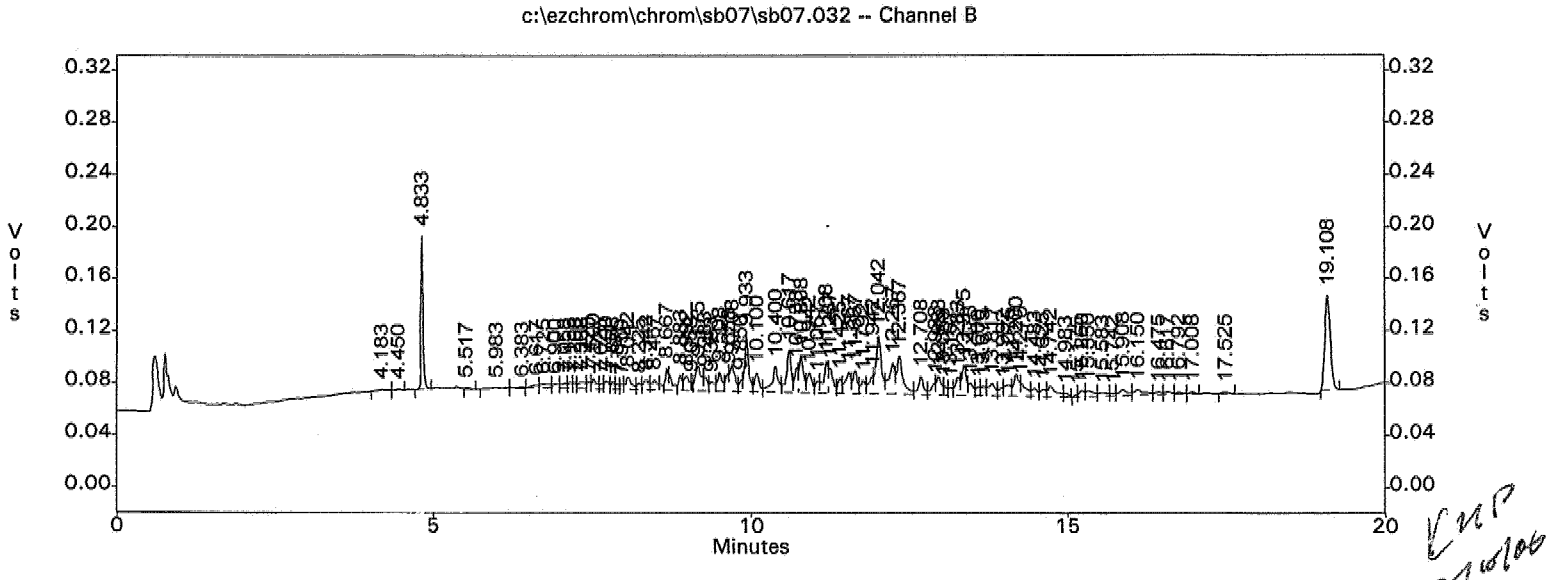
5216

EPA Toxaphene GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.032
Method : c:\ezchrom\methods\to08b07.met
Sample ID : ITO08B07
Acquired : Feb 09, 2006 06:16:07
Printed : Feb 09, 2006 13:13:02
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
3	TCX	4.833	264228	10109.5	26.1
85	DCB	19.108	434419	16403.4	26.5
G1	TOXAPHENE		4420918	8166.0	541.4



CMP 2/10/06

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCTO08 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SA12036A 01/12/2006 11:38
Conc Cont LFID & Datetime: SA12039A 01/12/2006 12:54
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
CHLORDANE	0.000	0.000	0.000	500.0	5641.0	2960030	524.73	5		15

CWD
4/17/06

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCTO08 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SA12036B 01/12/2006 11:38
Conc Cont LFID & Datetime: SA12039B 01/12/2006 12:54
CONC UNIT : PPB

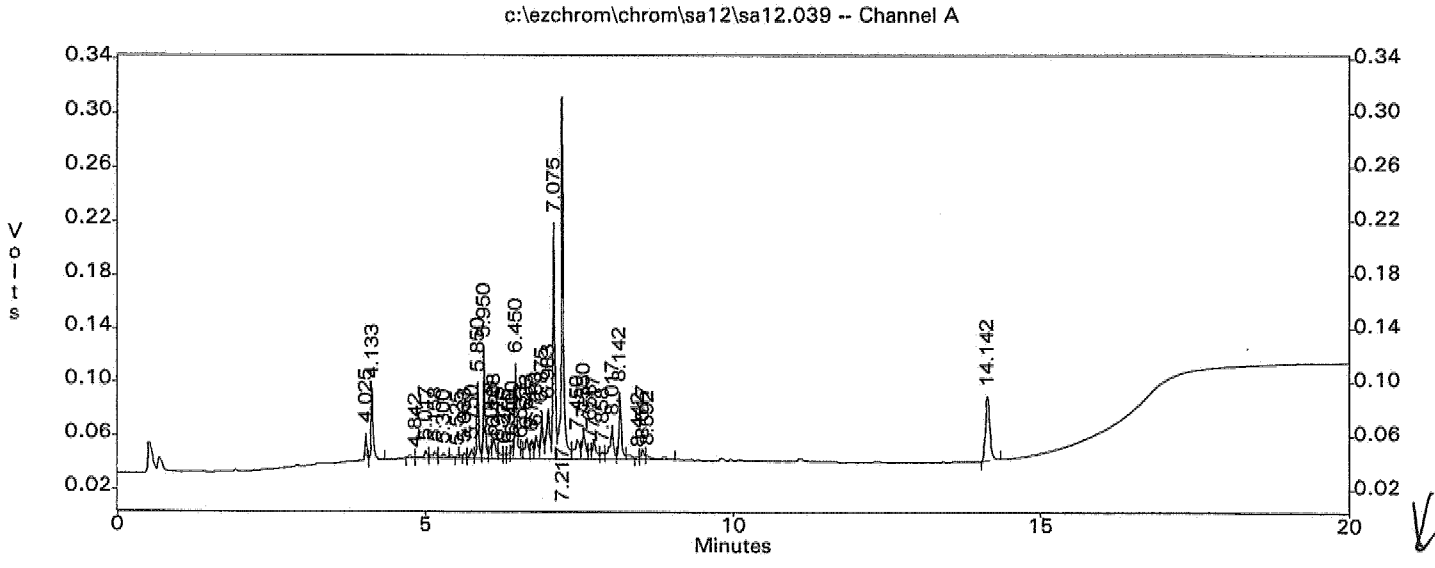
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
CHLORDANE	0.000	0.000	0.000	500.0	7811.3	4321376	553.22	11		15

EPA Chlordane by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.039
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : ICR08A12
Acquired : Jan 12, 2006 12:54:34
Printed : Jan 12, 2006 16:01:25
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.133	129015	4817.5	26.8
37	DCB	14.142	246739	8034.3	30.7
G1	CHLORDANE		2960030	5641.0	524.7



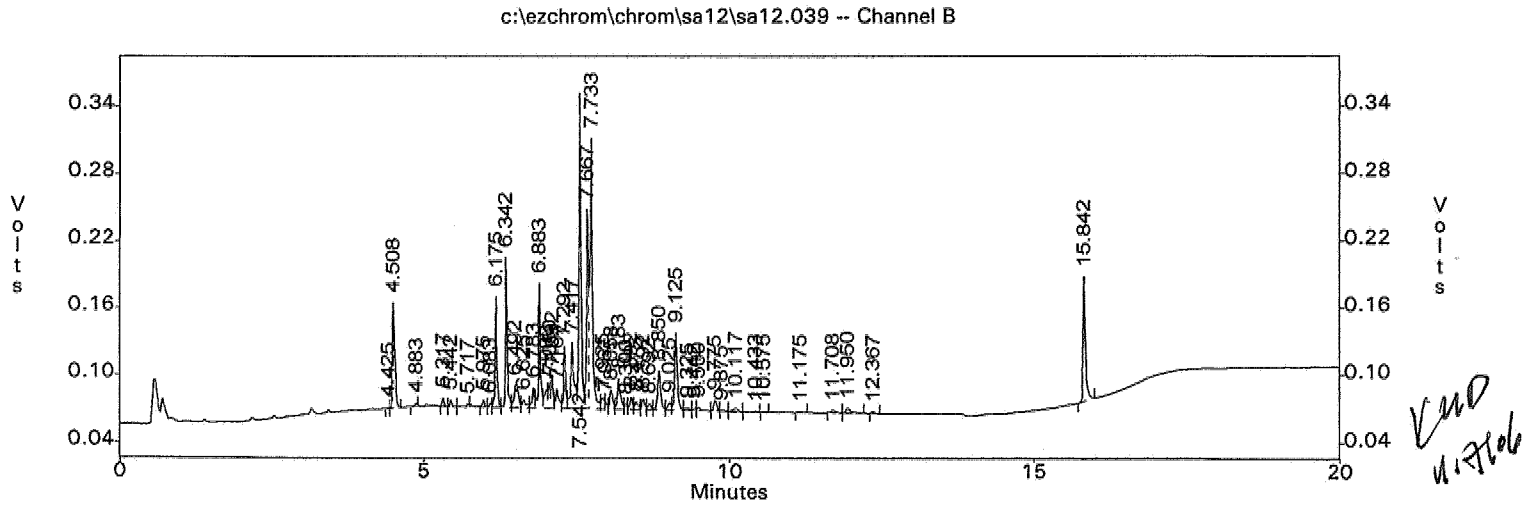
KMP 4/17/06

EPA Chlordane GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sa12\sa12.039
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : ICR08A12
Acquired : Jan 12, 2006 12:54:34
Printed : Jan 12, 2006 16:01:25
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.508	287209	7938.4	36.2
48	DCB	15.842	337041	11345.7	29.7
G1	CHLORDANE		4321376	7811.3	553.2



VMO 1.17.06

DAILY CALIBRATIONS

PEM PEST BREAKDOWN CALCULATION
METHOD 8081

Lab Name	:	EMAX		
Instrument ID	:	GCTO08 HP-5890		
GC Column	:	RTX-CLPEST	RTX-CLPESTII	
Column size ID	:	.32MMX30M	.32MMX30M	
PEM LFID & Datetime	:	SD10002A	SD10002B	04/10/06 10:42

Base on AREA

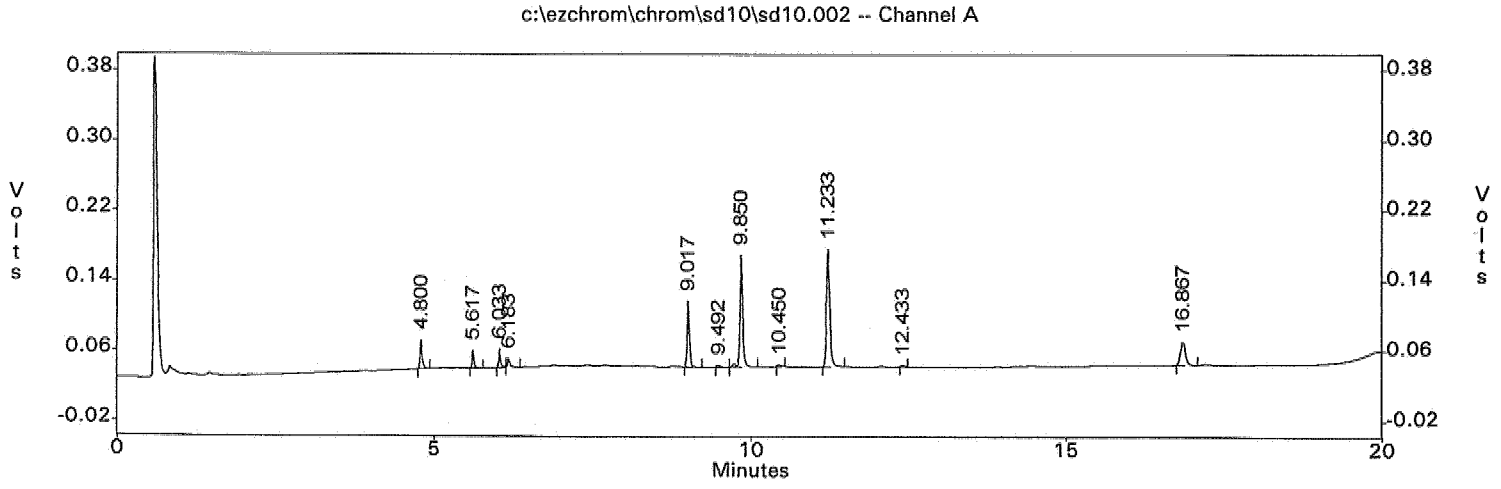
	AREA				% Breakdown				
LFID	DDD	DDE	DDT	TOTAL	DDD	DDE	TOTAL	QL	QCLIMIT
SD10002A	0.0	0.0	425816.0	425816.0	0.00	0.00	0.00		15
SD10002B	0.0	7634.0	927739.0	935373.0	0.00	0.82	0.82		15
LFID	ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	TOTAL	ENDRIN ALDEHYDE	ENDRIN KETONE	TOTAL	QL	QCLIMIT
SD10002A	203382.0	7972.0	6482.0	217836.0	3.66	2.98	6.64		15
SD10002B	491828.0	32644.0	24314.0	548786.0	5.95	4.43	10.38		15

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.002
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : PE08B07072
Acquired : Apr 10, 2006 10:42:58
Printed : Apr 10, 2006 11:20:00
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.800	81235	4651.2	17.5
--	Hexachlorobenzene	5.450	0	0.0	0.0
2	alpha-BHC	5.617	40234	4718.6	8.5
3	gamma-BHC	6.033	45359	4577.1	9.9
4	beta-BHC	6.183	28941	2251.3	12.9
--	delta-BHC	6.442	0	0.0	0.0
--	Heptachlor	6.675	0	0.0	0.0
--	Aldrin	7.000	0	0.0	0.0
--	Heptachlor Epoxide	7.758	0	0.0	0.0
--	gamma-Chlordane	7.925	0	0.0	0.0
--	alpha-Chlordane	8.125	0	0.0	0.0
--	Endosulfan I	8.317	0	0.0	0.0
--	DDE	8.330	0	0.0	0.0
--	Dieldrin	8.742	0	0.0	0.0
5	Endrin	9.017	203382	3501.3	58.1
--	DDD	9.425	0	0.0	0.0
--	Endosulfan II	9.608	0	0.0	0.0
7	DDT	9.850	425816	4201.4	101.4
8	Endrin Aldehyde	10.450	7972	4184.1	1.9
9	Methoxychlor	11.233	533253	2466.7	216.2
--	Mirex	11.392	0	0.0	0.0
--	Endosulfan Sulfate	11.825	0	0.0	0.0
10	Endrin Ketone	12.433	6482	4326.9	1.5
11	DCB	16.867	148342	7628.6	19.4
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

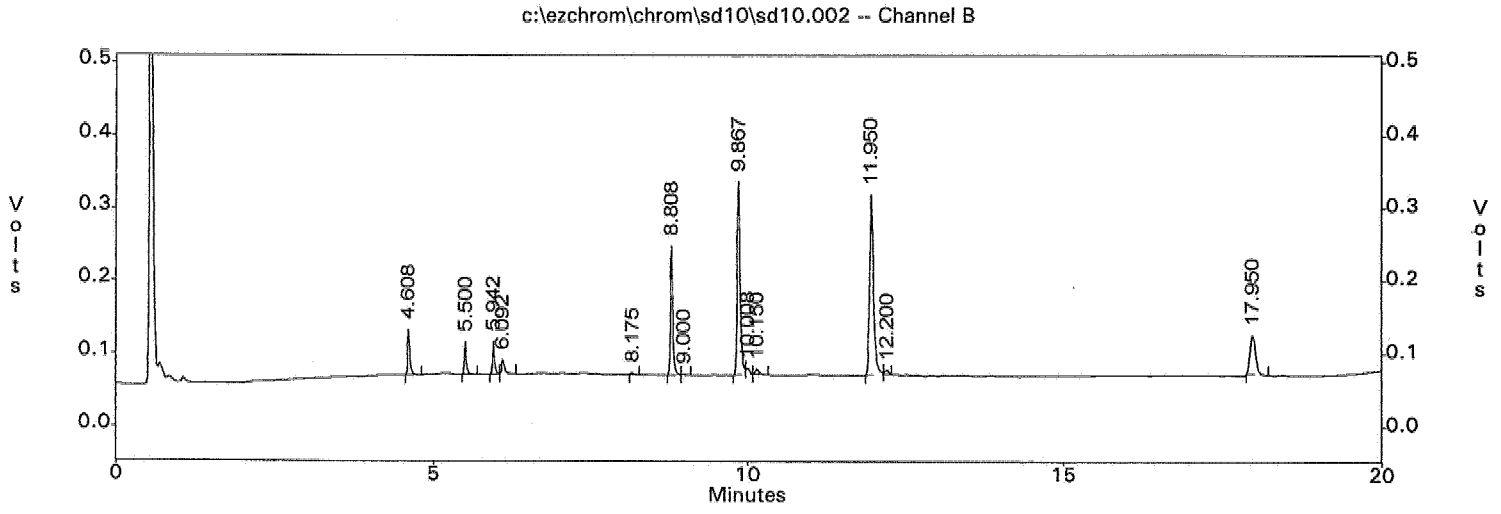


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.002
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : PE08B07072
Acquired : Apr 10, 2006 10:42:58
Printed : Apr 10, 2006 11:20:00
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	174498	9286.2	18.8
--	Hexachlorobenzene	5.350	0	0.0	0.0
2	alpha-BHC	5.500	102463	11413.9	9.0
3	gamma-BHC	5.942	105951	10790.5	9.8
4	beta-BHC	6.092	62673	4742.8	13.2
--	delta-BHC	6.492	0	0.0	0.0
--	Heptachlor	6.508	0	0.0	0.0
--	Aldrin	6.842	0	0.0	0.0
--	Heptachlor Epoxide	7.492	0	0.0	0.0
--	gamma-Chlordane	7.733	0	0.0	0.0
--	alpha-Chlordane	7.942	0	0.0	0.0
--	Endosulfan I	8.008	0	0.0	0.0
5	DDE	8.175	7634	9384.4	0.8
--	Dieldrin	8.433	0	0.0	0.0
6	Endrin	8.808	491828	7892.7	62.3
--	Endosulfan II	9.375	0	0.0	0.0
--	DDD	9.383	0	0.0	0.0
8	DDT	9.867	927739	9053.6	102.5
9	Endrin Aldehyde	10.008	32644	8639.9	3.8
--	Endosulfan Sulfate	10.892	0	0.0	0.0
11	Methoxychlor	11.950	1138175	5002.2	227.5
--	Mirex	12.150	0	0.0	0.0
12	Endrin Ketone	12.200	24314	9990.3	2.4
13	DCB	17.950	321819	16659.5	19.3
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07024A 02/09/2006 02:33
Mid Conc Init LFID & Datetime: SB07025A 02/09/2006 03:01
Conc Cont LFID & Datetime: SD10003A 04/10/2006 11:09
Conc Cont LFID & Datetime: SD10004A 04/10/2006 11:35
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	5.367	5.263	5.471	20.0	7654.5	153734	20.08	0		15
alpha-BHC	5.608	5.504	5.712	20.0	4718.6	86950	18.43	-8		15
gamma-BHC	6.033	5.929	6.137	20.0	4577.1	88805	19.40	-3		15
beta-BHC	6.175	6.071	6.279	20.0	2251.3	42035	18.67	-7		15
Heptachlor	6.600	6.484	6.716	20.0	5673.9	114289	20.14	1		15
delta-BHC	6.383	6.306	6.460	20.0	4546.6	92926	20.44	2		15
Aldrin	6.933	6.829	7.037	20.0	4104.3	81478	19.85	-1		15
Heptachlor Epoxide	7.667	7.590	7.744	20.0	4737.9	97241	20.52	3		15
gamma-Chlordane	7.833	7.756	7.910	20.0	4582.0	93588	20.42	2		15
alpha-Chlordane	8.025	7.948	8.102	20.0	4899.1	96170	19.63	-2		15
Endosulfan I	8.217	8.101	8.333	20.0	4799.1	91544	19.08	-5		15
DDE	8.200	8.123	8.277	40.0	4499.6	168712	37.49	-6		15
Dieldrin	8.608	8.492	8.724	40.0	4768.4	182491	38.27	-4		15
Endrin	9.008	8.892	9.124	40.0	3501.3	164375	46.95	17	*	15
DDD	9.258	9.142	9.374	40.0	3323.1	119554	35.98	-10		15
Endosulfan II	9.467	9.390	9.544	40.0	4435.5	168518	37.99	-5		15
DDT	9.842	9.726	9.958	40.0	4201.4	164356	39.12	-2		15
Endrin Aldehyde	10.433	10.356	10.510	40.0	4184.1	169091	40.41	1		15
Endosulfan Sulfate	11.617	11.513	11.721	40.0	3968.4	143723	36.22	-9		15
Methoxychlor	11.225	11.138	11.312	200.0	2466.7	488238	197.93	-1		15
Mirex	11.200	11.096	11.304	40.0	5755.7	235442	40.91	2		15
Endrin Ketone	12.417	12.313	12.521	40.0	4326.9	169064	39.07	-2		15

SURROGATE	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUECON	CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
TCX	4.792	4.688	4.896	20.0	4651.2	83454	17.94	-10		15
DCB	16.850	16.762	16.938	40.0	7628.6	305696	40.07	0		15

CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07024B 02/09/2006 02:33
Mid Conc Init LFID & Datetime: SB07025B 02/09/2006 03:01
Conc Cont LFID & Datetime: SD10003B 04/10/2006 11:09
Conc Cont LFID & Datetime: SD10004B 04/10/2006 11:35
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	5.283	5.196	5.370	20.0	16480.6	351166	21.31	7		15
alpha-BHC	5.492	5.405	5.579	20.0	11413.9	227950	19.97	-0		15
gamma-BHC	5.942	5.885	5.999	20.0	10790.5	216799	20.09	0		15
beta-BHC	6.092	6.041	6.143	20.0	4742.8	99330	20.94	5		15
Heptachlor	6.433	6.375	6.491	20.0	12376.0	248382	20.07	0		15
delta-BHC	6.417	6.388	6.446	20.0	10503.0	220059	20.95	5		15
Aldrin	6.775	6.725	6.825	20.0	9456.0	209649	22.17	11		15
Heptachlor Epoxide	7.417	7.367	7.467	20.0	10303.2	215326	20.90	4		15
gamma-Chlordane	7.650	7.621	7.679	20.0	10156.1	212547	20.93	5		15
alpha-Chlordane	7.850	7.821	7.879	20.0	11130.5	223311	20.06	0		15
Endosulfan I	7.900	7.843	7.957	20.0	11000.8	217333	19.76	-1		15
DDE	8.167	8.138	8.196	40.0	9384.4	412083	43.91	10		15
Dieldrin	8.308	8.258	8.358	40.0	10685.9	438098	41.00	2		15
Endrin	8.800	8.750	8.850	40.0	7892.7	402731	51.03	28	*	15
DDD	9.200	9.150	9.250	40.0	7117.7	278302	39.10	-2		15
Endosulfan II	9.233	9.204	9.262	40.0	9951.8	412437	41.44	4		15
DDT	9.858	9.829	9.887	40.0	9053.6	372214	41.11	3		15
Endrin Aldehyde	10.000	9.971	10.029	40.0	8639.9	374757	43.38	8		15
Endosulfan Sulfate	10.708	10.679	10.737	40.0	8891.8	345386	38.84	-3		15
Methoxychlor	11.950	11.900	12.000	200.0	5002.2	1049526	209.81	5		15
Mirex	11.933	11.904	11.962	40.0	11337.3	474026	41.81	5		15
Endrin Ketone	12.192	12.163	12.221	40.0	9990.3	417556	41.80	4		15

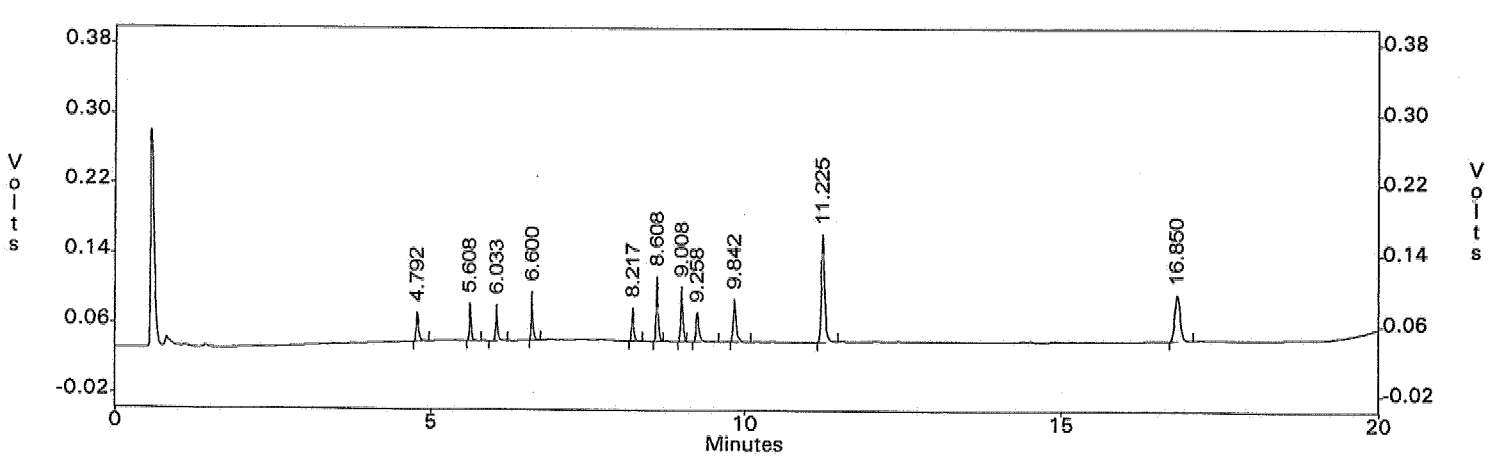
SURROGATE	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUECON	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
TCX	4.608	4.531	4.685	20.0	9286.2	177915	19.16	-4		15
DCB	17.942	17.892	17.992	40.0	16659.5	661639	39.72	-1		15

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.003
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CCP08B07072A
Acquired : Apr 10, 2006 11:09:18
Printed : Apr 10, 2006 11:51:14
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.792	83454	4651.2	17.9
--	Hexachlorobenzene	5.450	0	0.0	0.0
2	alpha-BHC	5.608	86950	4718.6	18.4
3	gamma-BHC	6.033	88805	4577.1	19.4
--	beta-BHC	6.183	0	0.0	0.0
--	delta-BHC	6.442	0	0.0	0.0
4	Heptachlor	6.600	114289	5673.9	20.1
--	Aldrin	7.000	0	0.0	0.0
--	Heptachlor Epoxide	7.758	0	0.0	0.0
--	gamma-Chlordane	7.925	0	0.0	0.0
--	alpha-Chlordane	8.125	0	0.0	0.0
5	Endosulfan I	8.217	91544	4799.1	19.1
--	DDE	8.330	0	0.0	0.0
6	Dieldrin	8.608	182491	4768.4	38.3
7	Endrin	9.008	164375	3501.3	46.9
8	DDD	9.258	119554	3323.1	36.0
--	Endosulfan II	9.608	0	0.0	0.0
9	DDT	9.842	164356	4201.4	39.1
--	Endrin Aldehyde	10.450	0	0.0	0.0
10	Methoxychlor	11.225	488238	2466.7	197.9
--	Mirex	11.392	0	0.0	0.0
--	Endosulfan Sulfate	11.825	0	0.0	0.0
--	Endrin Ketone	12.433	0	0.0	0.0
11	DCB	16.850	305696	7628.6	40.1
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

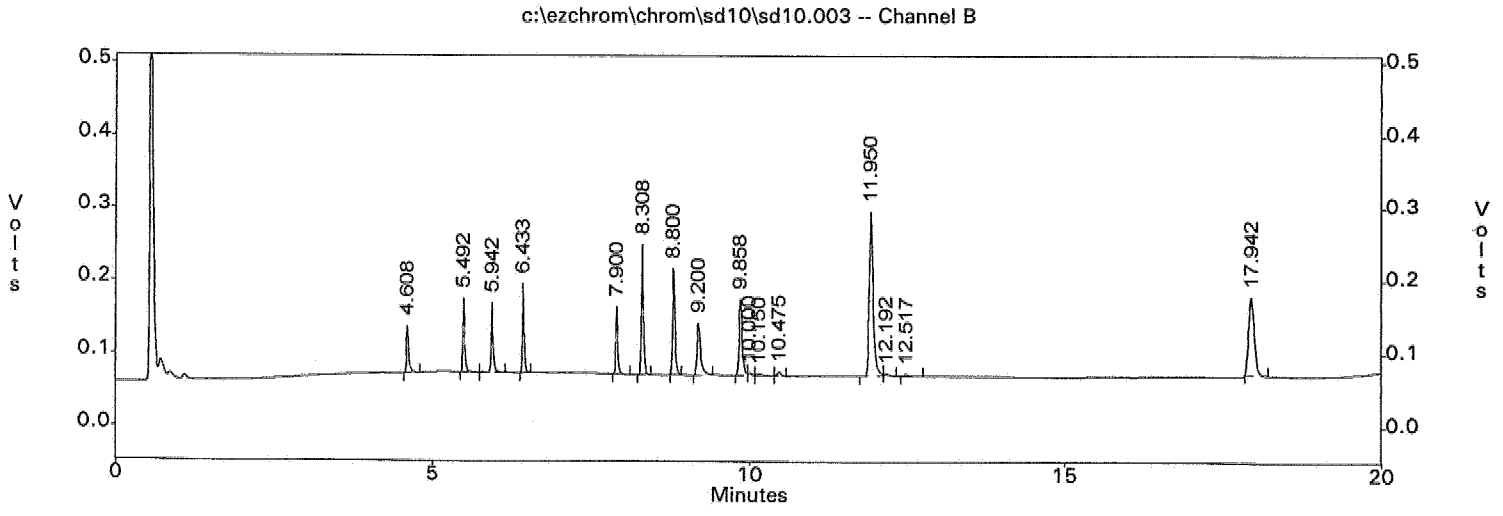


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.003
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CCP08B07072A
Acquired : Apr 10, 2006 11:09:18
Printed : Apr 10, 2006 11:51:14
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	177915	9286.2	19.2
--	Hexachlorobenzene	5.350	0	0.0	0.0
2	alpha-BHC	5.492	227950	11413.9	20.0
3	gamma-BHC	5.942	216799	10790.5	20.1
--	beta-BHC	6.092	0	0.0	0.0
4	Heptachlor	6.433	248382	12376.0	20.1
--	delta-BHC	6.492	0	0.0	0.0
--	Aldrin	6.842	0	0.0	0.0
--	Heptachlor Epoxide	7.492	0	0.0	0.0
--	gamma-Chlordane	7.733	0	0.0	0.0
5	Endosulfan I	7.900	217333	11000.8	19.8
--	alpha-Chlordane	7.942	0	0.0	0.0
--	DDE	8.175	0	0.0	0.0
6	Dieldrin	8.308	438098	10685.9	41.0
7	Endrin	8.800	402731	7892.7	51.0
8	DDD	9.200	278302	7117.7	39.1
--	Endosulfan II	9.375	0	0.0	0.0
9	DDT	9.858	372214	9053.6	41.1
10	Endrin Aldehyde	10.000	17843	8639.9	2.1
--	Endosulfan Sulfate	10.892	0	0.0	0.0
13	Methoxychlor	11.950	1049526	5002.2	209.8
--	Mirex	12.150	0	0.0	0.0
14	Endrin Ketone	12.192	19058	9990.3	1.9
16	DCB	17.942	661639	16659.5	39.7
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

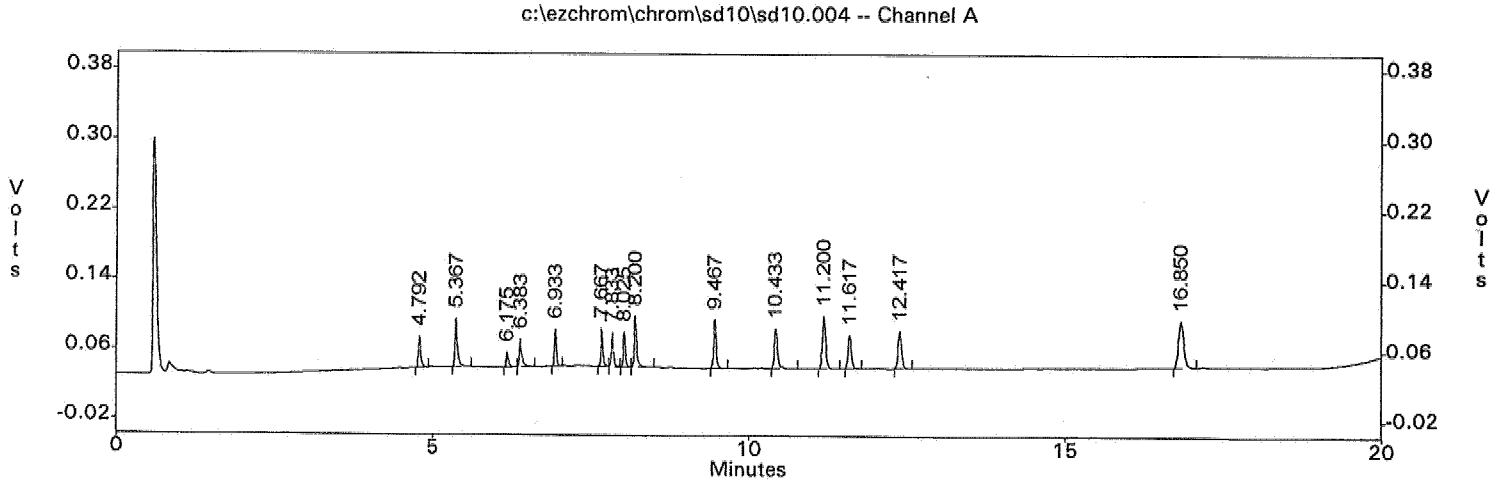


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.004
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CCP08B07072B
Acquired : Apr 10, 2006 11:35:37
Printed : Apr 10, 2006 11:55:51
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.792	87871	4651.2	18.9
2	Hexachlorobenzene	5.367	153734	7654.5	20.1
--	alpha-BHC	5.617	0	0.0	0.0
--	gamma-BHC	6.033	0	0.0	0.0
3	beta-BHC	6.175	42035	2251.3	18.7
4	delta-BHC	6.383	92926	4546.6	20.4
--	Heptachlor	6.600	0	0.0	0.0
5	Aldrin	6.933	81478	4104.3	19.9
6	Heptachlor Epoxide	7.667	97241	4737.9	20.5
7	gamma-Chlordane	7.833	93588	4582.0	20.4
8	alpha-Chlordane	8.025	96170	4899.1	19.6
9	DDE	8.200	168712	4499.6	37.5
--	Endosulfan I	8.217	0	0.0	0.0
--	Dieldrin	8.608	0	0.0	0.0
--	Endrin	9.008	0	0.0	0.0
--	DDD	9.258	0	0.0	0.0
10	Endosulfan II	9.467	168518	4435.5	38.0
--	DDT	9.850	0	0.0	0.0
11	Endrin Aldehyde	10.433	169091	4184.1	40.4
12	Mirex	11.200	235442	5755.7	40.9
--	Methoxychlor	11.233	0	0.0	0.0
13	Endosulfan Sulfate	11.617	143723	3968.4	36.2
14	Endrin Ketone	12.417	169064	4326.9	39.1
15	DCB	16.850	307219	7628.6	40.3
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

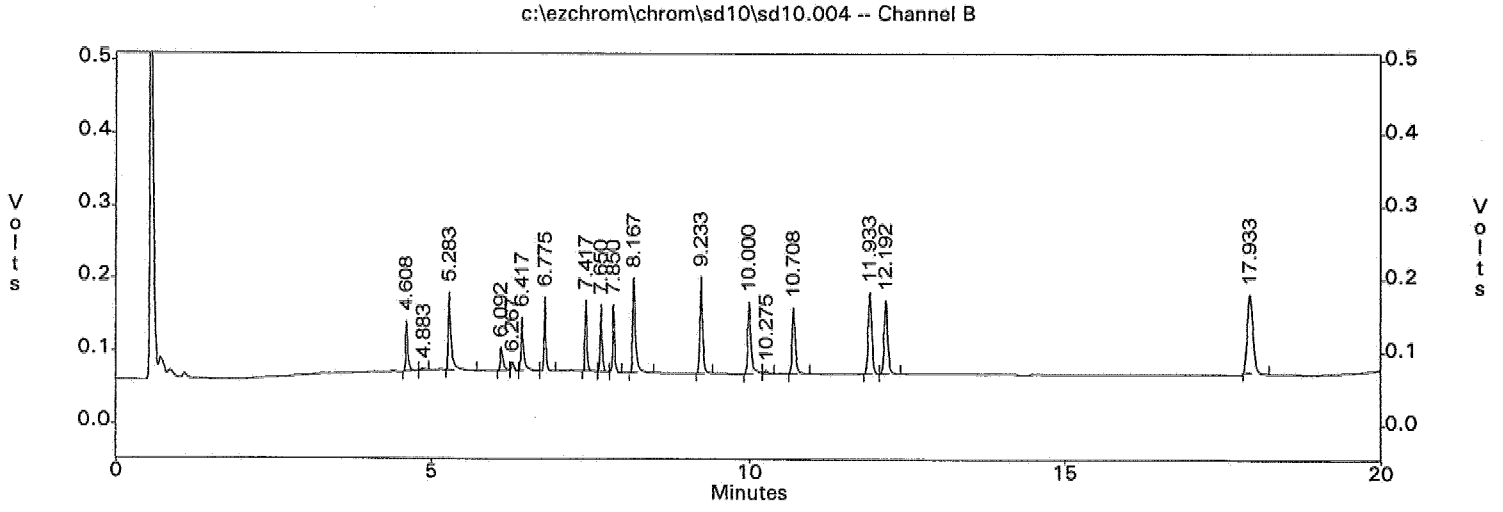


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.004
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CCP08B07072B
Acquired : Apr 10, 2006 11:35:37
Printed : Apr 10, 2006 11:55:51
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	193285	9286.2	20.8
3	Hexachlorobenzene	5.283	351166	16480.6	21.3
--	alpha-BHC	5.500	0	0.0	0.0
--	gamma-BHC	5.942	0	0.0	0.0
4	beta-BHC	6.092	99330	4742.8	20.9
6	delta-BHC	6.417	220059	10503.0	21.0
--	Heptachlor	6.433	0	0.0	0.0
7	Aldrin	6.775	209649	9456.0	22.2
8	Heptachlor Epoxide	7.417	215326	10303.2	20.9
9	gamma-Chlordane	7.650	212547	10156.1	20.9
10	alpha-Chlordane	7.850	223311	11130.5	20.1
--	Endosulfan I	7.900	0	0.0	0.0
11	DDE	8.167	412083	9384.4	43.9
--	Dieldrin	8.308	0	0.0	0.0
--	Endrin	8.808	0	0.0	0.0
--	DDD	9.200	0	0.0	0.0
12	Endosulfan II	9.233	412437	9951.8	41.4
--	DDT	9.867	0	0.0	0.0
13	Endrin Aldehyde	10.000	374757	8639.9	43.4
15	Endosulfan Sulfate	10.708	345386	8891.8	38.8
16	Mirex	11.933	474026	11337.3	41.8
--	Methoxychlor	11.950	0	0.0	0.0
17	Endrin Ketone	12.192	417556	9990.3	41.8
18	DCB	17.933	682040	16659.5	40.9
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCTO08 HP-5890
GC Columm : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07004A 02/08/2006 17:16
Conc Cont LFID & Datetime: SD10005A 04/10/2006 12:01
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	3528.4	1740622	493.32	-1		15

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCTO08 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07004B 02/08/2006 17:16
Conc Cont LFID & Datetime: SD10005B 04/10/2006 12:01
CONC UNIT : PPB

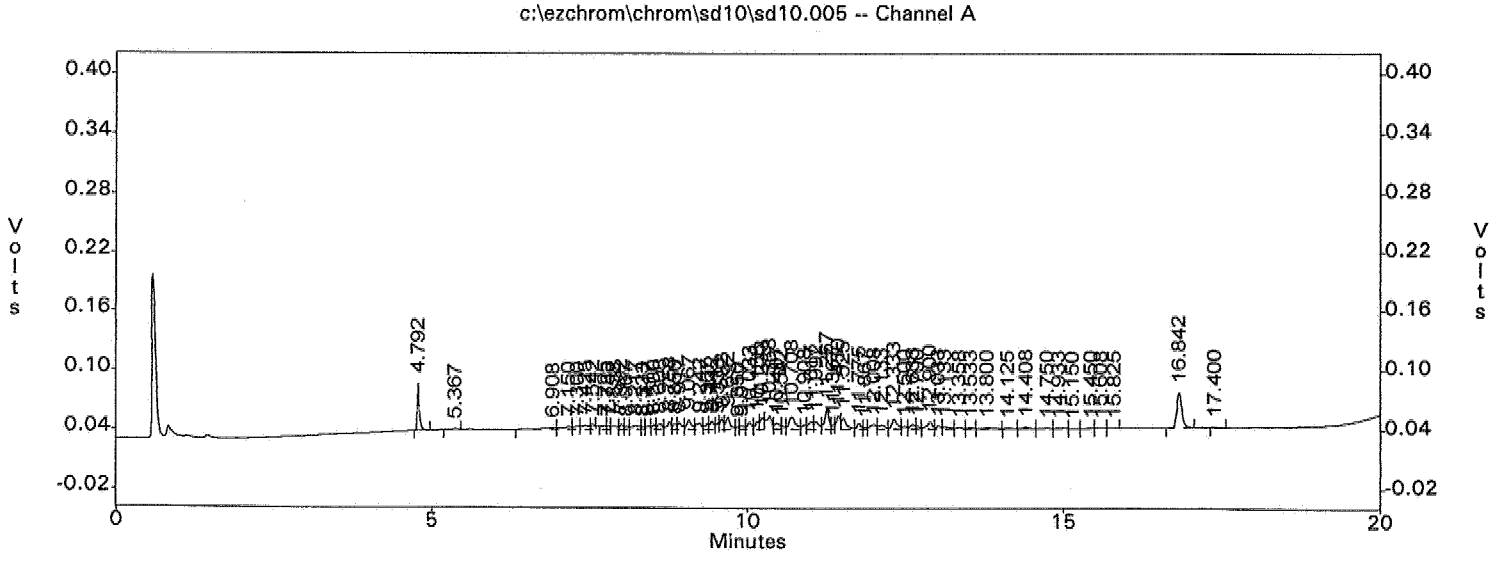
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	8166.0	3537890	433.25	-13		15

EPA Toxaphene by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.005
Method : c:\ezchrom\methods\to08b07.met
Sample ID : CTO08B07072
Acquired : Apr 10, 2006 12:01:59
Printed : Apr 10, 2006 12:31:37
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.792	117691	5084.0	23.1
66	DCB	16.842	200599	8281.4	24.2
G1	TOXAPHENE		1740622	3528.4	493.3

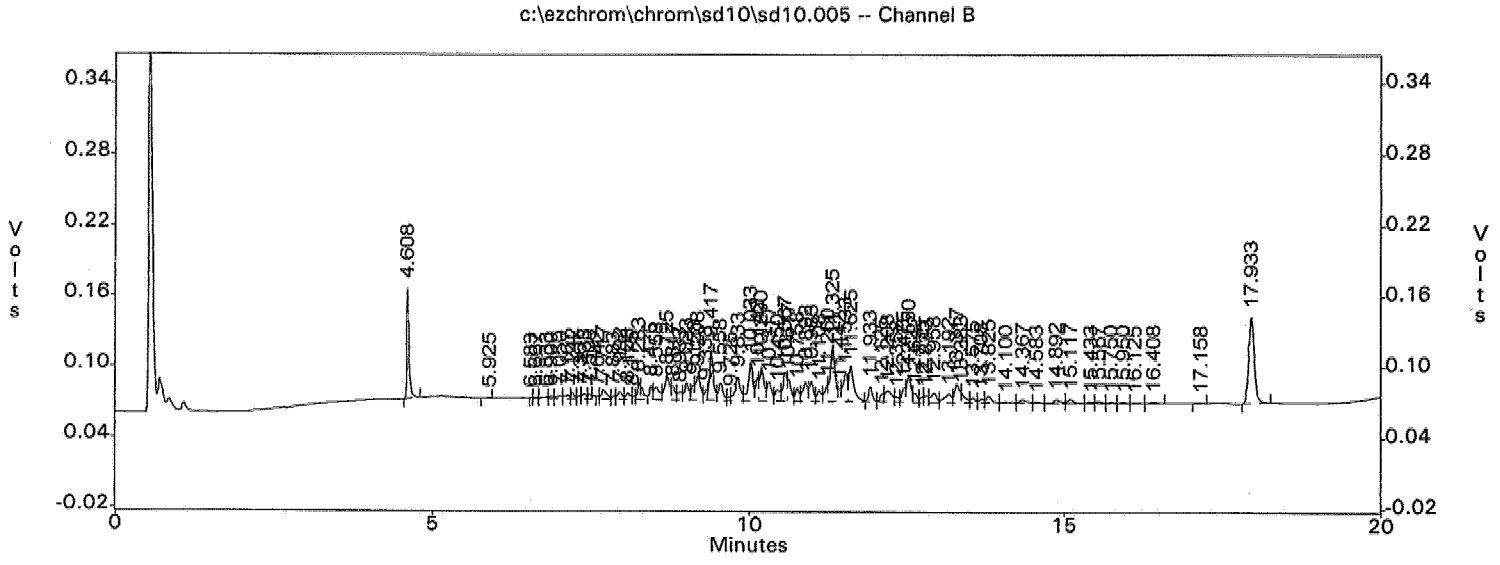


EPA Toxaphene GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.005
Method : c:\ezchrom\methods\to08b07.met
Sample ID : CTO08B07072
Acquired : Apr 10, 2006 12:01:59
Printed : Apr 10, 2006 12:31:37
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	255662	10109.5	25.3
77	DCB	17.933	473306	16403.4	28.9
G1	TOXAPHENE		3537890	8166.0	433.2



CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SA12036A 01/12/2006 11:38
Conc Cont LFID & Datetime: SD10007A 04/10/2006 12:54
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
CHLORDANE	0.000	0.000	0.000	500.0	5641.0	2441847	432.88	-13		15

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCTO08 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SA12036B 01/12/2006 11:38
Conc Cont LFID & Datetime: SD10007B 04/10/2006 12:54
CONC UNIT : PPB

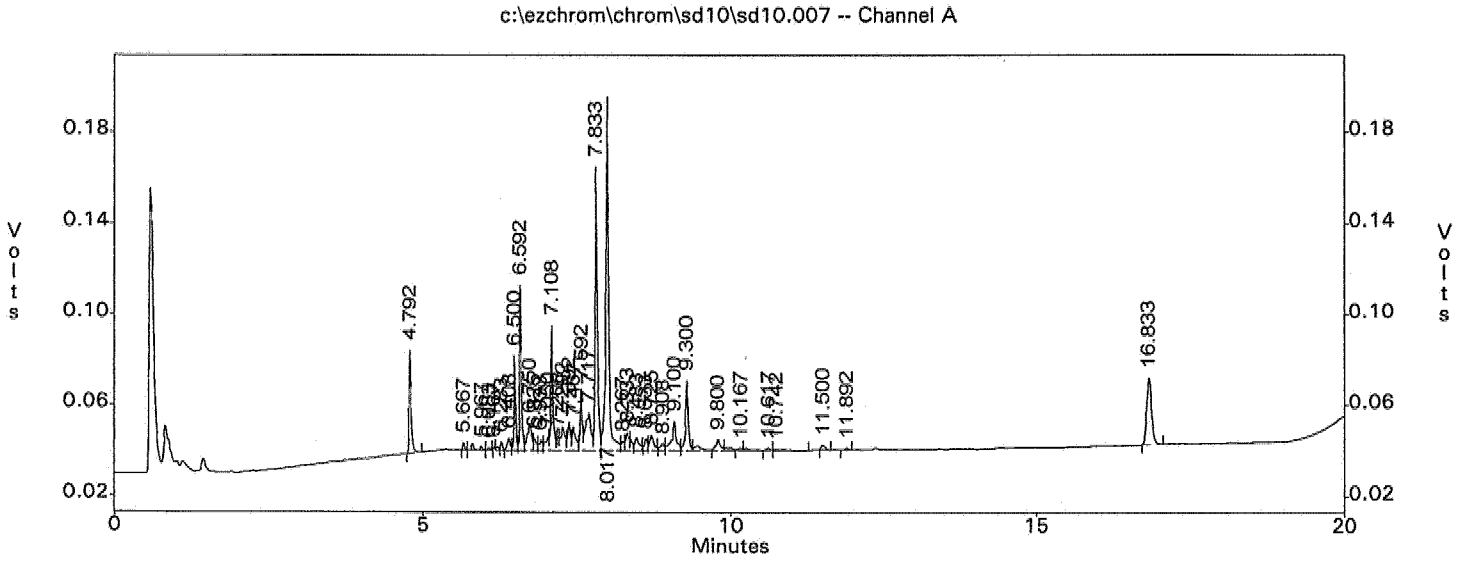
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
CHLORDANE	0.000	0.000	0.000	500.0	7811.3	4390446	562.07	12		15

EPA Chlordane by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.007
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CCR08A12072
Acquired : Apr 10, 2006 12:54:41
Printed : Apr 10, 2006 13:27:59
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.792	111698	4817.5	23.2
37	DCB	16.833	166471	8034.3	20.7
G1	CHLORDANE		2441847	5641.0	432.9

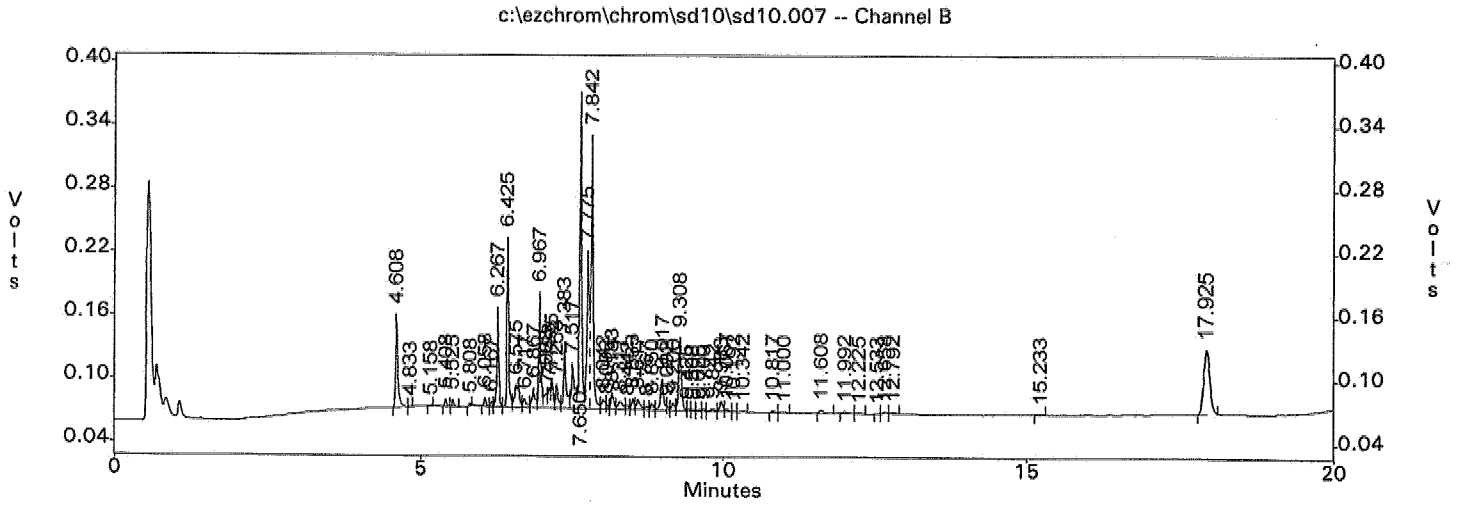


EPA Chlordane GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.007
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CCR08A12072
Acquired : Apr 10, 2006 12:54:41
Printed : Apr 10, 2006 13:27:59
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	247846	7938.4	31.2
55	DCB	17.925	385515	11345.7	34.0
G1	CHLORDANE		4390446	7811.3	562.1



PEM PEST BREAKDOWN CALCULATION
METHOD 8081

Lab Name	:	EMAX	
Instrument ID	:	GCT008 HP-5890	
GC Columm	:	RTX-CLPEST	RTX-CLPESTII
Column size ID	:	.32MMX30M	.32MMX30M
PEM LFID & Datetime	:	SD10019A SD10019B	04/10/06 18:13

Base on AREA

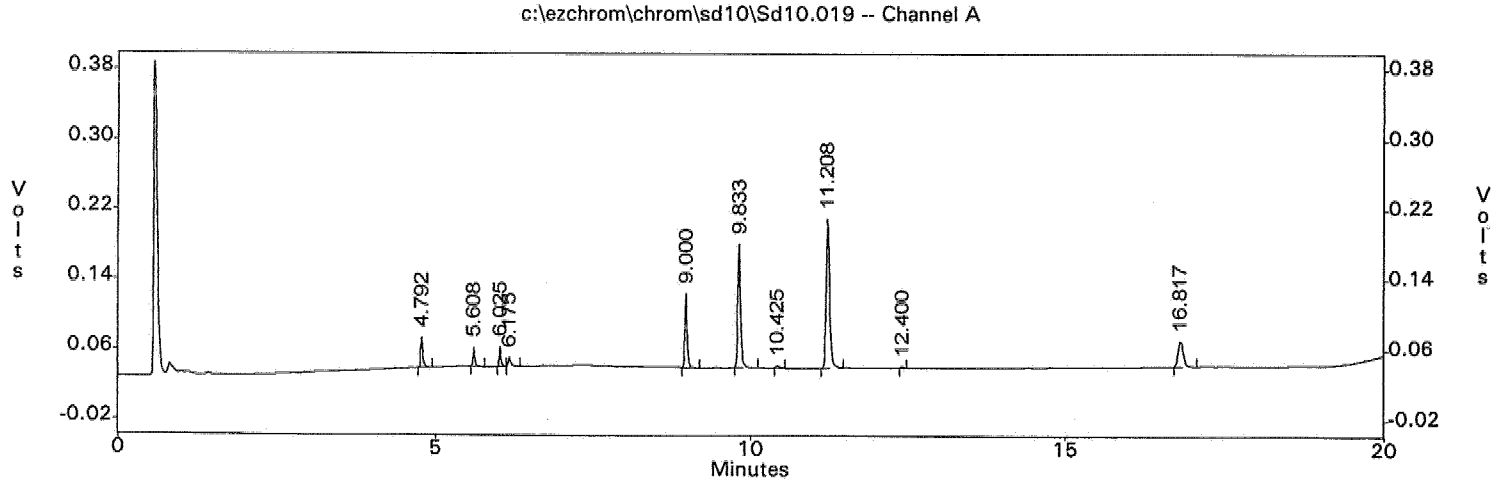
	AREA				% Breakdown				
LFID	DDD	DDE	DDT	TOTAL	DDD	DDE	TOTAL	QL	QCLIMIT
SD10019A	0.0	0.0	459521.0	459521.0	0.00	0.00	0.00		15
SD10019B	0.0	0.0	1058894.0	1058894.0	0.00	0.00	0.00		15
LFID	ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	TOTAL	ENDRIN ALDEHYDE	ENDRIN KETONE	TOTAL	QL	QCLIMIT
SD10019A	230171.0	7539.0	5577.0	243287.0	3.10	2.29	5.39		15
SD10019B	562111.0	40583.0	44006.0	646700.0	6.28	6.80	13.08		15

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\Sd10.019
Method : c:\ezchrom\methods\Cp08b07.met
Sample ID : PE08B07073
Acquired : Apr 10, 2006 18:13:34
Printed : Apr 10, 2006 18:33:36
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.792	88292	4651.2	19.0
--	Hexachlorobenzene	5.367	0	0.0	0.0
2	alpha-BHC	5.608	45395	4718.6	9.6
3	gamma-BHC	6.025	45484	4577.1	9.9
4	beta-BHC	6.175	28866	2251.3	12.8
--	delta-BHC	6.383	0	0.0	0.0
--	Heptachlor	6.600	0	0.0	0.0
--	Aldrin	6.933	0	0.0	0.0
--	Heptachlor Epoxide	7.667	0	0.0	0.0
--	gamma-Chlordane	7.833	0	0.0	0.0
--	alpha-Chlordane	8.025	0	0.0	0.0
--	DDE	8.200	0	0.0	0.0
--	Endosulfan I	8.217	0	0.0	0.0
--	Dieldrin	8.608	0	0.0	0.0
5	Endrin	9.000	230171	3501.3	65.7
--	DDD	9.258	0	0.0	0.0
--	Endosulfan II	9.467	0	0.0	0.0
6	DDT	9.833	459521	4201.4	109.4
7	Endrin Aldehyde	10.425	7539	4184.1	1.8
8	Mirex	11.208	693162	5755.7	120.4
--	Methoxychlor	11.233	0	0.0	0.0
--	Endosulfan Sulfate	11.617	0	0.0	0.0
9	Endrin Ketone	12.400	5577	4326.9	1.3
10	DCB	16.817	164115	7628.6	21.5
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

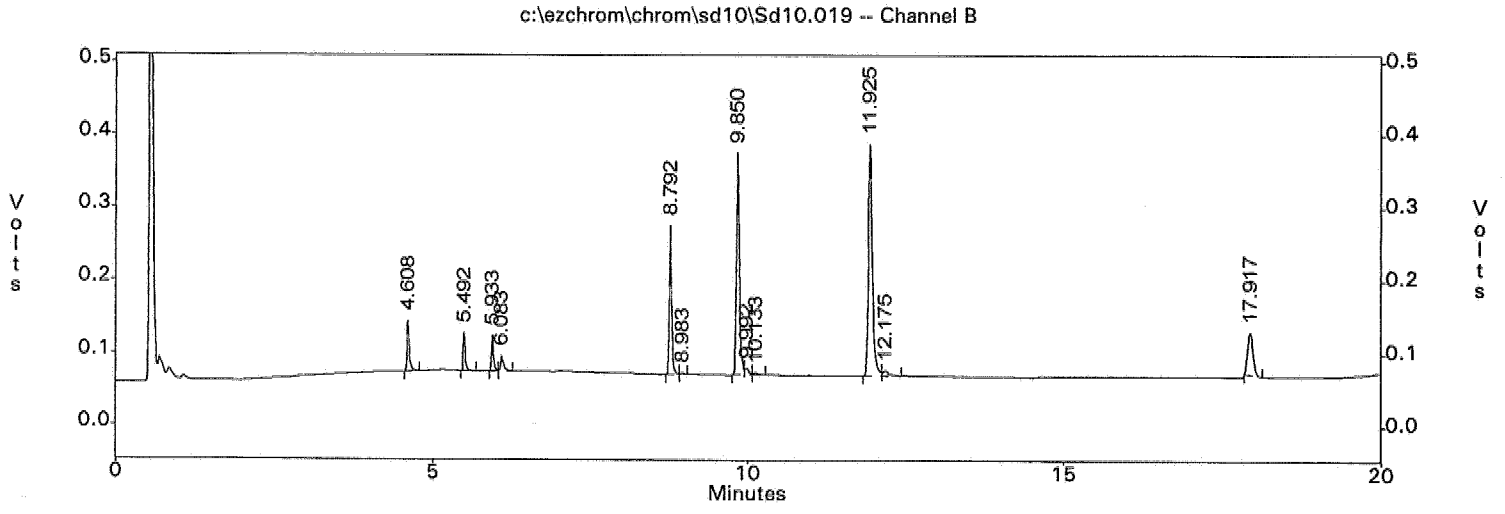


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\Sd10.019
Method : c:\ezchrom\methods\Cp08b07.met
Sample ID : PE08B07073
Acquired : Apr 10, 2006 18:13:34
Printed : Apr 10, 2006 18:33:36
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	193108	9286.2	20.8
--	Hexachlorobenzene	5.283	0	0.0	0.0
2	alpha-BHC	5.492	118524	11413.9	10.4
3	gamma-BHC	5.933	116434	10790.5	10.8
4	beta-BHC	6.083	66132	4742.8	13.9
--	delta-BHC	6.417	0	0.0	0.0
--	Heptachlor	6.433	0	0.0	0.0
--	Aldrin	6.775	0	0.0	0.0
--	Heptachlor Epoxide	7.417	0	0.0	0.0
--	gamma-Chlordane	7.650	0	0.0	0.0
--	alpha-Chlordane	7.850	0	0.0	0.0
--	Endosulfan I	7.900	0	0.0	0.0
--	DDE	8.167	0	0.0	0.0
--	Dieldrin	8.308	0	0.0	0.0
5	Endrin	8.792	562111	7892.7	71.2
--	DDD	9.200	0	0.0	0.0
--	Endosulfan II	9.233	0	0.0	0.0
7	DDT	9.850	1058894	9053.6	117.0
8	Endrin Aldehyde	9.992	40583	8639.9	4.7
--	Endosulfan Sulfate	10.708	0	0.0	0.0
10	Mirex	11.925	1469511	11337.3	129.6
--	Methoxychlor	11.950	0	0.0	0.0
11	Endrin Ketone	12.175	44006	9990.3	4.4
12	DCB	17.917	339238	16659.5	20.4
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07024A 02/09/2006 02:33
Mid Conc Init LFID & Datetime: SB07025A 02/09/2006 03:01
Conc Cont LFID & Datetime: SD10020A 04/10/2006 18:39
Conc Cont LFID & Datetime: SD10021A 04/10/2006 19:06
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	5.358	5.254	5.462	20.0	7654.5	161399	21.08	5		15
alpha-BHC	5.608	5.504	5.712	20.0	4718.6	91468	19.39	-3		15
gamma-BHC	6.025	5.921	6.129	20.0	4577.1	89350	19.52	-2		15
beta-BHC	6.167	6.063	6.271	20.0	2251.3	43722	19.42	-3		15
Heptachlor	6.592	6.476	6.708	20.0	5673.9	119603	21.08	5		15
delta-BHC	6.375	6.298	6.452	20.0	4546.6	90878	19.99	-0		15
Aldrin	6.925	6.821	7.029	20.0	4104.3	85272	20.78	4		15
Heptachlor Epoxide	7.658	7.581	7.735	20.0	4737.9	100667	21.25	6		15
gamma-Chlordane	7.825	7.748	7.902	20.0	4582.0	96563	21.07	5		15
alpha-Chlordane	8.017	7.940	8.094	20.0	4899.1	99668	20.34	2		15
Endosulfan I	8.208	8.092	8.324	20.0	4799.1	98022	20.42	2		15
DDE	8.192	8.115	8.269	40.0	4499.6	176932	39.32	-2		15
Dieldrin	8.592	8.476	8.708	40.0	4768.4	192746	40.42	1		15
Endrin	9.000	8.884	9.116	40.0	3501.3	166074	47.43	19	*	15
DDD	9.250	9.134	9.366	40.0	3323.1	116182	34.96	-13		15
Endosulfan II	9.450	9.373	9.527	40.0	4435.5	181761	40.98	2		15
DDT	9.833	9.717	9.949	40.0	4201.4	172664	41.10	3		15
Endrin Aldehyde	10.425	10.348	10.502	40.0	4184.1	178127	42.57	6		15
Endosulfan Sulfate	11.600	11.496	11.704	40.0	3968.4	156847	39.52	-1		15
Methoxychlor	11.208	11.121	11.295	200.0	2466.7	543555	220.35	10		15
Mirex	11.192	11.088	11.296	40.0	5755.7	245149	42.59	6		15
Endrin Ketone	12.400	12.296	12.504	40.0	4326.9	177855	41.10	3		15

SURROGATE	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUECON	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
TCX	4.792	4.688	4.896	20.0	4651.2	86901	18.68	-7		15
DCB	16.817	16.729	16.905	40.0	7628.6	324783	42.57	6		15

CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07024B 02/09/2006 02:33
Mid Conc Init LFID & Datetime: SB07025B 02/09/2006 03:01
Conc Cont LFID & Datetime: SD10020B 04/10/2006 18:39
Conc Cont LFID & Datetime: SD10021B 04/10/2006 19:06
CONC UNIT : ppb

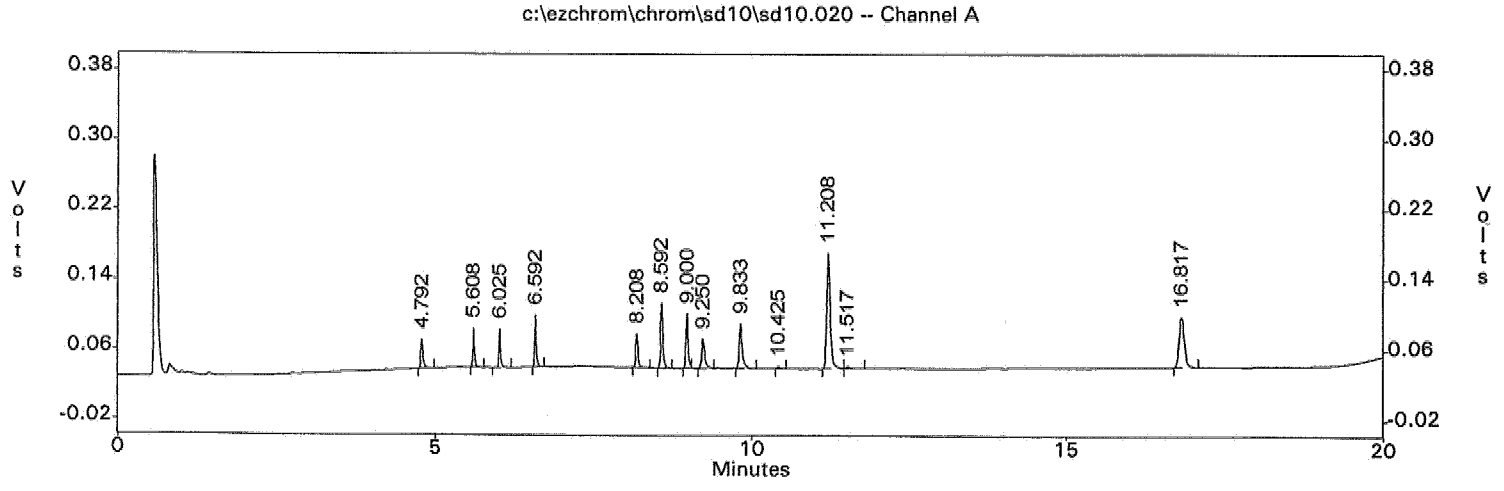
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	5.283	5.196	5.370	20.0	16480.6	363799	22.07	10		15
alpha-BHC	5.492	5.405	5.579	20.0	11413.9	244267	21.40	7		15
gamma-BHC	5.942	5.885	5.999	20.0	10790.5	230324	21.34	7		15
beta-BHC	6.083	6.032	6.134	20.0	4742.8	101746	21.45	7		15
Heptachlor	6.425	6.367	6.483	20.0	12376.0	265703	21.47	7		15
delta-BHC	6.417	6.388	6.446	20.0	10503.0	223533	21.28	6		15
Aldrin	6.767	6.717	6.817	20.0	9456.0	214147	22.65	13		15
Heptachlor Epoxide	7.408	7.358	7.458	20.0	10303.2	227951	22.12	11		15
gamma-Chlordane	7.650	7.621	7.679	20.0	10156.1	222707	21.93	10		15
alpha-Chlordane	7.842	7.813	7.871	20.0	11130.5	234921	21.11	6		15
Endosulfan I	7.892	7.835	7.949	20.0	11000.8	232134	21.10	6		15
DDE	8.158	8.129	8.187	40.0	9384.4	430781	45.90	15		15
Dieldrin	8.300	8.250	8.350	40.0	10685.9	469939	43.98	10		15
Endrin	8.792	8.742	8.842	40.0	7892.7	413782	52.43	31	*	15
DDD	9.192	9.142	9.242	40.0	7117.7	299484	42.08	5		15
Endosulfan II	9.225	9.196	9.254	40.0	9951.8	450484	45.27	13		15
DDT	9.850	9.821	9.879	40.0	9053.6	396481	43.79	9		15
Endrin Aldehyde	9.992	9.963	10.021	40.0	8639.9	396634	45.91	15		15
Endosulfan Sulfate	10.700	10.671	10.729	40.0	8891.8	379190	42.65	7		15
Methoxychlor	11.925	11.875	11.975	200.0	5002.2	1115490	223.00	11		15
Mirex	11.925	11.896	11.954	40.0	11337.3	506406	44.67	12		15
Endrin Ketone	12.183	12.154	12.212	40.0	9990.3	449837	45.03	13		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	4.608	4.531	4.685	20.0	9286.2	188991	20.35	2		15
DCB	17.908	17.858	17.958	40.0	16659.5	700400	42.04	5		15

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.020
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CCP08B07073A
Acquired : Apr 10, 2006 18:39:52
Printed : Apr 11, 2006 08:32:59
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.792	86901	4651.2	18.7
--	Hexachlorobenzene	5.367	0	0.0	0.0
2	alpha-BHC	5.608	91468	4718.6	19.4
3	gamma-BHC	6.025	89350	4577.1	19.5
--	beta-BHC	6.183	0	0.0	0.0
--	delta-BHC	6.383	0	0.0	0.0
4	Heptachlor	6.592	119603	5673.9	21.1
--	Aldrin	6.933	0	0.0	0.0
--	Heptachlor Epoxide	7.667	0	0.0	0.0
--	gamma-Chlordane	7.833	0	0.0	0.0
--	alpha-Chlordane	8.025	0	0.0	0.0
--	DDE	8.200	0	0.0	0.0
5	Endosulfan I	8.208	98022	4799.1	20.4
6	Dieldrin	8.592	192746	4768.4	40.4
7	Endrin	9.000	166074	3501.3	47.4
8	DDD	9.250	116182	3323.1	35.0
--	Endosulfan II	9.467	0	0.0	0.0
9	DDT	9.833	172664	4201.4	41.1
10	Endrin Aldehyde	10.425	6128	4184.1	1.5
--	Mirex	11.200	0	0.0	0.0
11	Methoxychlor	11.208	543555	2466.7	220.4
--	Endosulfan Sulfate	11.617	0	0.0	0.0
--	Endrin Ketone	12.417	0	0.0	0.0
13	DCB	16.817	324783	7628.6	42.6
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

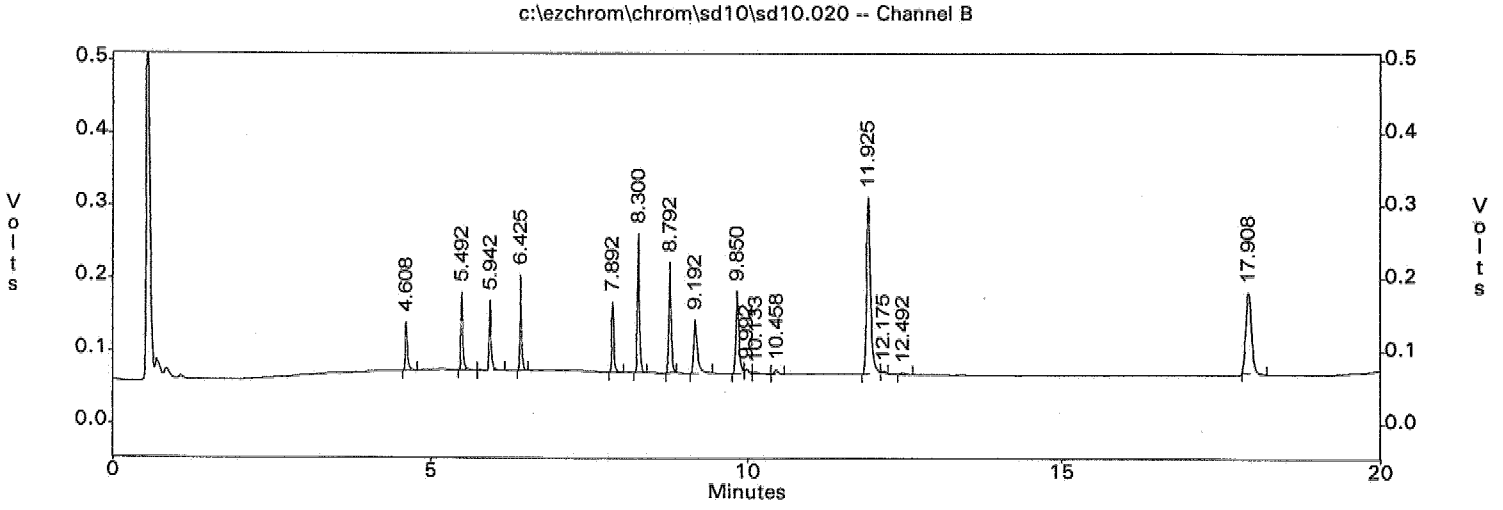


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.020
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CCP08B07073A
Acquired : Apr 10, 2006 18:39:52
Printed : Apr 11, 2006 08:32:59
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	188991	9286.2	20.4
--	Hexachlorobenzene	5.283	0	0.0	0.0
2	alpha-BHC	5.492	244267	11413.9	21.4
3	gamma-BHC	5.942	230324	10790.5	21.3
--	beta-BHC	6.092	0	0.0	0.0
--	delta-BHC	6.417	0	0.0	0.0
4	Heptachlor	6.425	265703	12376.0	21.5
--	Aldrin	6.775	0	0.0	0.0
--	Heptachlor Epoxide	7.417	0	0.0	0.0
--	gamma-Chlordane	7.650	0	0.0	0.0
--	alpha-Chlordane	7.850	0	0.0	0.0
5	Endosulfan I	7.892	232134	11000.8	21.1
--	DDE	8.167	0	0.0	0.0
6	Dieldrin	8.300	469939	10685.9	44.0
7	Endrin	8.792	413782	7892.7	52.4
8	DDD	9.192	299484	7117.7	42.1
--	Endosulfan II	9.233	0	0.0	0.0
9	DDT	9.850	396481	9053.6	43.8
10	Endrin Aldehyde	9.992	26530	8639.9	3.1
--	Endosulfan Sulfate	10.708	0	0.0	0.0
--	Mirex	11.900	0	0.0	0.0
13	Methoxychlor	11.925	1115490	5002.2	223.0
14	Endrin Ketone	12.175	7102	9990.3	0.7
16	DCB	17.908	700400	16659.5	42.0
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

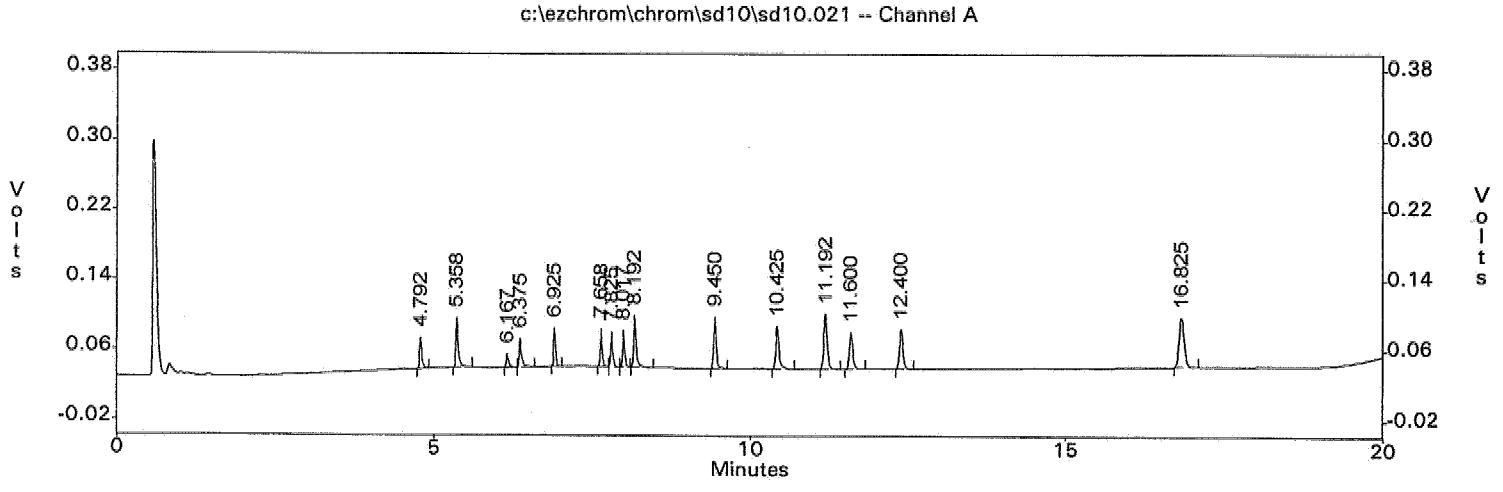


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.021
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CCP08B07073B
Acquired : Apr 10, 2006 19:06:10
Printed : Apr 11, 2006 08:34:39
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.792	90029	4651.2	19.4
2	Hexachlorobenzene	5.358	161399	7654.5	21.1
--	alpha-BHC	5.617	0	0.0	0.0
--	gamma-BHC	6.033	0	0.0	0.0
3	beta-BHC	6.167	43722	2251.3	19.4
4	delta-BHC	6.375	90878	4546.6	20.0
--	Heptachlor	6.600	0	0.0	0.0
5	Aldrin	6.925	85272	4104.3	20.8
6	Heptachlor Epoxide	7.658	100667	4737.9	21.2
7	gamma-Chlordane	7.825	96563	4582.0	21.1
8	alpha-Chlordane	8.017	99668	4899.1	20.3
9	DDE	8.192	176932	4499.6	39.3
--	Endosulfan I	8.208	0	0.0	0.0
--	Dieldrin	8.608	0	0.0	0.0
--	Endrin	9.008	0	0.0	0.0
--	DDD	9.258	0	0.0	0.0
10	Endosulfan II	9.450	181761	4435.5	41.0
--	DDT	9.850	0	0.0	0.0
11	Endrin Aldehyde	10.425	178127	4184.1	42.6
12	Mirex	11.192	245149	5755.7	42.6
--	Methoxychlor	11.208	0	0.0	0.0
13	Endosulfan Sulfate	11.600	156847	3968.4	39.5
14	Endrin Ketone	12.400	177855	4326.9	41.1
15	DCB	16.825	325716	7628.6	42.7
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0

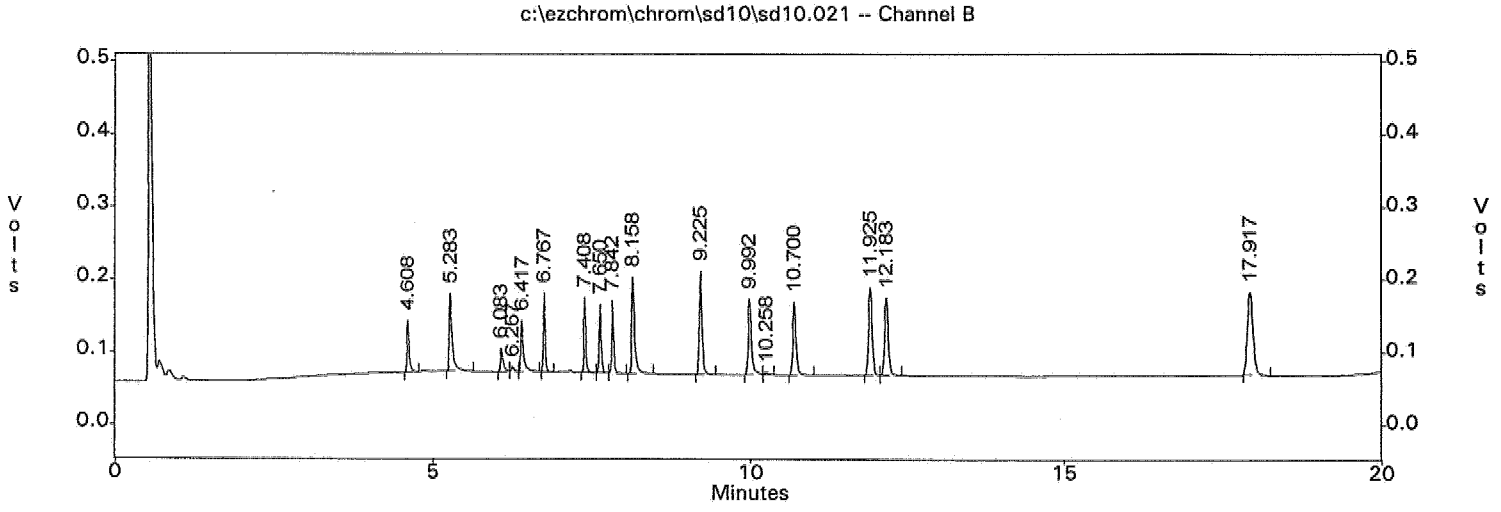


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.021
Method : c:\ezchrom\methods\cp08b07.met
Sample ID : CCP08B07073B
Acquired : Apr 10, 2006 19:06:10
Printed : Apr 11, 2006 08:34:39
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	199377	9286.2	21.5
2	Hexachlorobenzene	5.283	363799	16480.6	22.1
--	alpha-BHC	5.500	0	0.0	0.0
--	gamma-BHC	5.942	0	0.0	0.0
3	beta-BHC	6.083	101746	4742.8	21.5
5	delta-BHC	6.417	223533	10503.0	21.3
--	Heptachlor	6.433	0	0.0	0.0
6	Aldrin	6.767	214147	9456.0	22.6
7	Heptachlor Epoxide	7.408	227951	10303.2	22.1
8	gamma-Chlordane	7.650	222707	10156.1	21.9
9	alpha-Chlordane	7.842	234921	11130.5	21.1
--	Endosulfan I	7.900	0	0.0	0.0
10	DDE	8.158	430781	9384.4	45.9
--	Dieldrin	8.308	0	0.0	0.0
--	Endrin	8.808	0	0.0	0.0
--	DDD	9.200	0	0.0	0.0
11	Endosulfan II	9.225	450484	9951.8	45.3
--	DDT	9.867	0	0.0	0.0
12	Endrin Aldehyde	9.992	396634	8639.9	45.9
14	Endosulfan Sulfate	10.700	379190	8891.8	42.6
15	Mirex	11.925	506406	11337.3	44.7
--	Methoxychlor	11.933	0	0.0	0.0
16	Endrin Ketone	12.183	449837	9990.3	45.0
17	DCB	17.917	717374	16659.5	43.1
G2	PCB1016		0	0.0	0.0
G3	PCB1221		0	0.0	0.0
G4	PCB1232		0	0.0	0.0
G5	PCB1242		0	0.0	0.0
G6	PCB1248		0	0.0	0.0
G7	PCB1254		0	0.0	0.0
G8	PCB1260		0	0.0	0.0



CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07004A 02/08/2006 17:16
Conc Cont LFID & Datetime: SD10022A 04/10/2006 19:32
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	3528.4	1777112	503.66	1		15

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCTO08 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07004B 02/08/2006 17:16
Conc Cont LFID & Datetime: SD10022B 04/10/2006 19:32
CONC UNIT : PPB

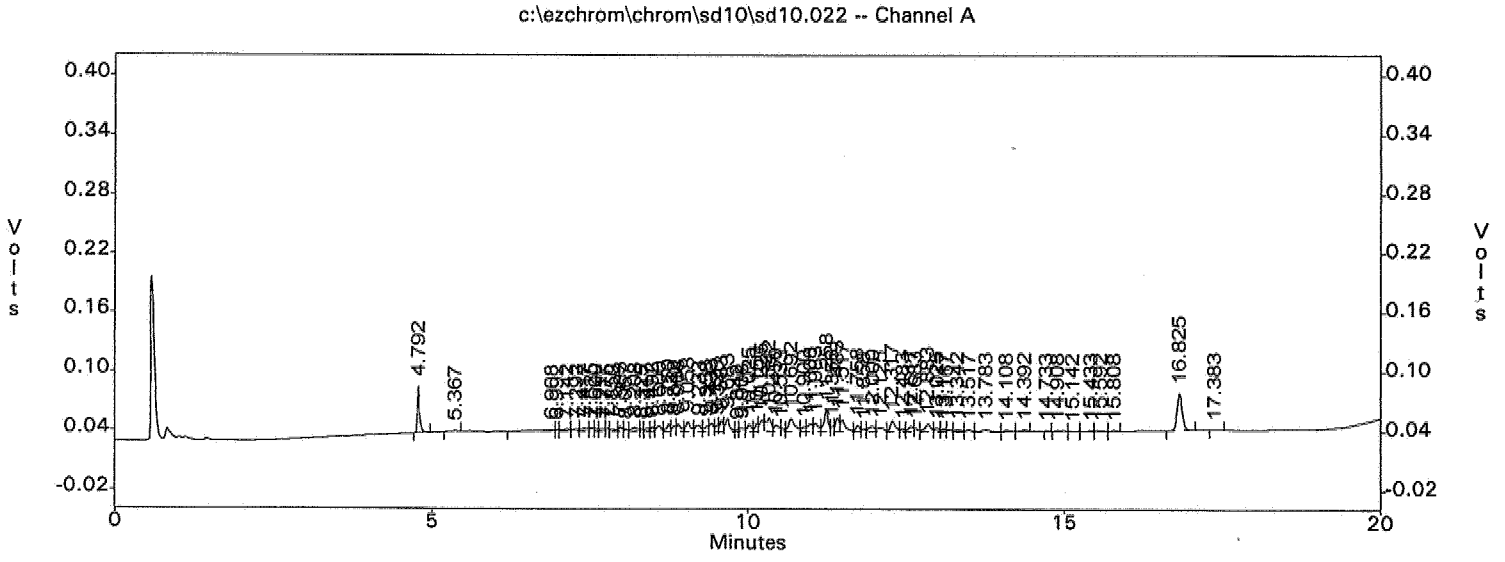
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	8166.0	3770482	461.73	-8		15

EPA Toxaphene by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.022
Method : c:\ezchrom\methods\to08b07.met
Sample ID : CTO08B07073
Acquired : Apr 10, 2006 19:32:27
Printed : Apr 11, 2006 08:35:35
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.792	120872	5084.0	23.8
69	DCB	16.825	212882	8281.4	25.7
G1	TOXAPHENE		1777112	3528.4	503.7

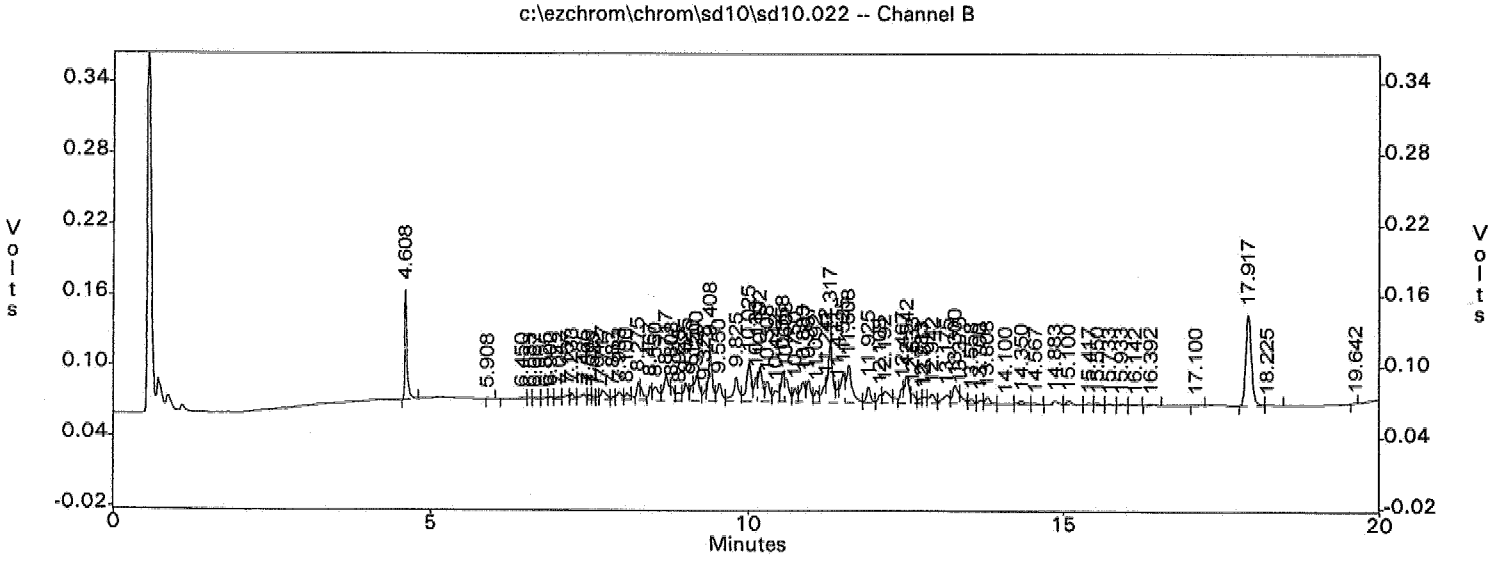


EPA Toxaphene GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.022
Method : c:\ezchrom\methods\to08b07.met
Sample ID : CTO08B07073
Acquired : Apr 10, 2006 19:32:27
Printed : Apr 11, 2006 08:35:36
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	261180	10109.5	25.8
75	DCB	17.917	503273	16403.4	30.7
G1	TOXAPHENE		3770482	8166.0	461.7



CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCTO08 HP-5890
GC Columm : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SA12036A 01/12/2006 11:38
Conc Cont LFID & Datetime: SD10024A 04/10/2006 20:25
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
CHLORDANE	0.000	0.000	0.000	500.0	5641.0	2651064	469.96	-6		15

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCTO08 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SA12036B 01/12/2006 11:38
Conc Cont LFID & Datetime: SD10024B 04/10/2006 20:25
CONC UNIT : PPB

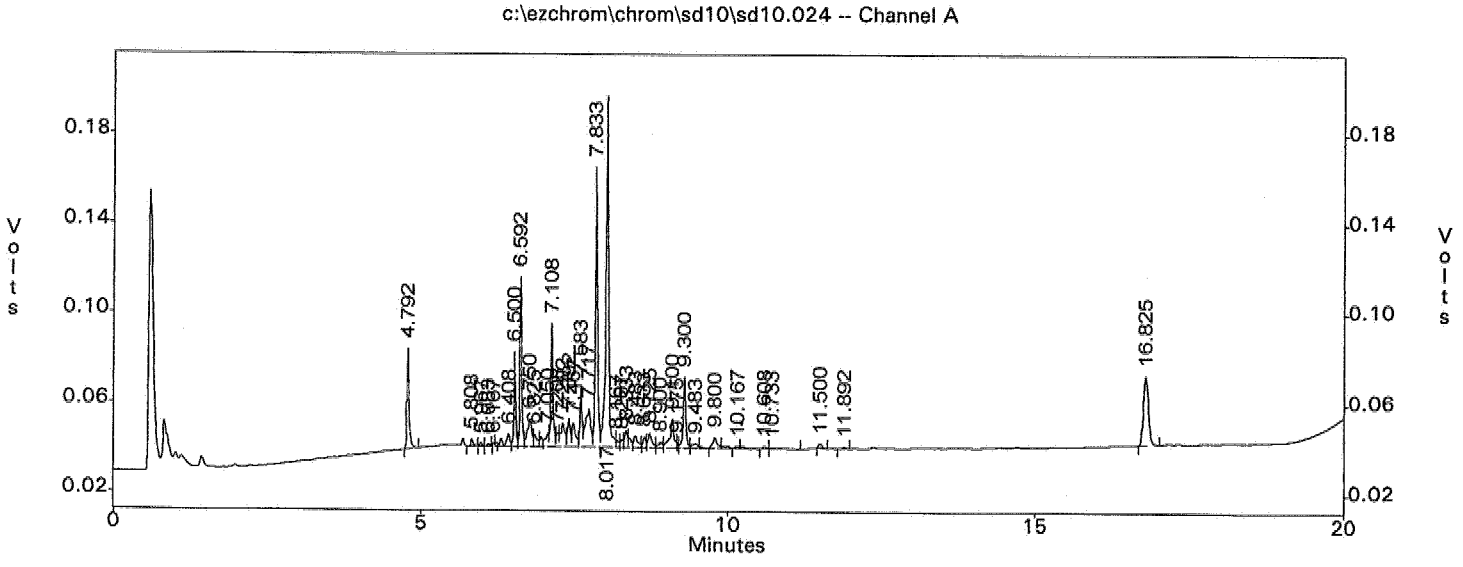
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
CHLORDANE	0.000	0.000	0.000	500.0	7811.3	4443503	568.86	14		15

EPA Chlordane by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.024
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CCR08A12073
Acquired : Apr 10, 2006 20:25:07
Printed : Apr 11, 2006 08:42:04
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.792	111539	4817.5	23.2
38	DCB	16.825	173446	8034.3	21.6
G1	CHLORDANE		2651064	5641.0	470.0

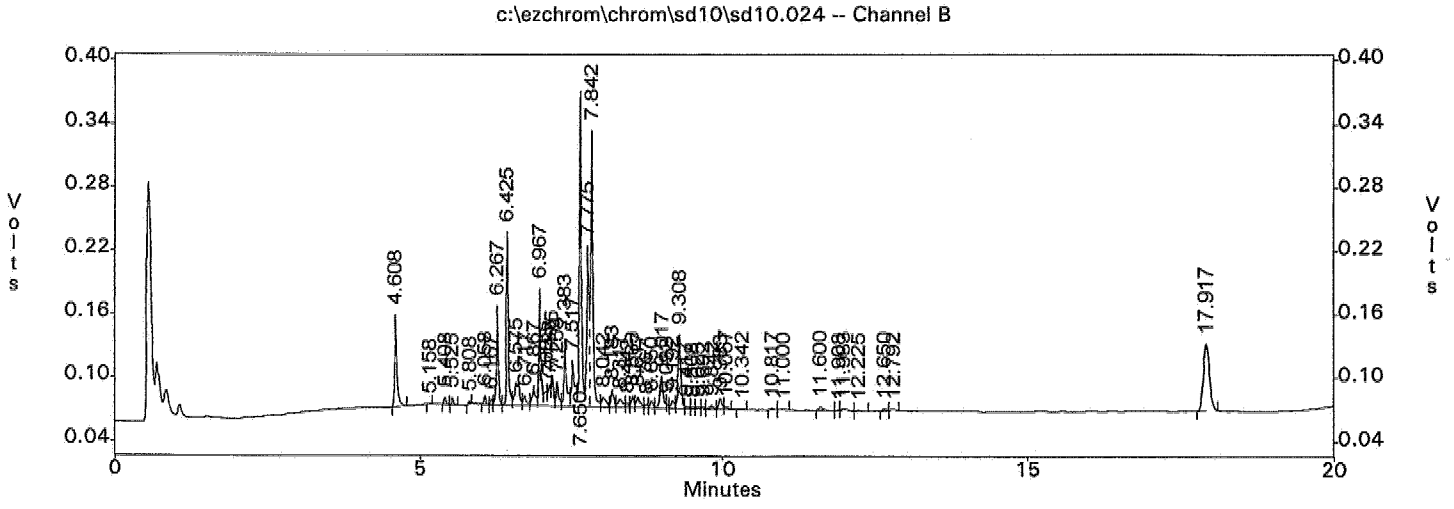


EPA Chlordane GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sd10\sd10.024
Method : c:\ezchrom\methods\cr08a12.met
Sample ID : CCR08A12073
Acquired : Apr 10, 2006 20:25:07
Printed : Apr 11, 2006 08:42:04
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	245124	7938.4	30.9
51	DCB	17.917	399856	11345.7	35.2
G1	CHLORDANE		4443503	7811.3	568.9



ANALYTICAL LOG

ANALYSIS RUN LOG FOR PESTICIDES/PCBs

SOP ☑ EMAX-8082 Revision No. 1 ☑ EMAX-8081 Revision No. 4 ☐ EMAX-CLP-PEST ☐ EMAX-608

Start Date: 4/10/06 Time: 10:16 Ending Date: 4/11/06 Time: 3:30 Book # A08-014

ANALYTICAL BATCH SCI/CCC3

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	SD10.001	IB 08B07072				
	2	PE				
	3	CCP 9				
	4	CCP 6				
	5	CTO				
	6	C60				
	7	CCR08A12072				
CPC022W	8	CPC022 WB	1		↓	
	9	WR				
	10	WC				
	11	60C022 WL				
	12	WC				
	13	06C204-01				
	14	06C239-01				
CPD004W	15	CPD004 WB				
	16	WR	↓			
↓	17	WC	1		↓	
	18	IB 08B07073				
	19	PE				
	20	CCP 9				
	21	CCP 6				
	22	CTO				
	23	C60				
	24	CCR08A12073				
CPD004W	25	06B020-03	1		↓	
	26	60B005 SB	1	↓		acid cleanup
↓	27	SL	1	↓		acid cleanup

Instrument No: 08

INITIAL CALIBRATION REFERENCE

ICAL ID	Batch	Date
CP08B07	SB07	2/7/06
TO	↓	↓
60	↓	↓
CR08A12	SA12	1/12/06

Standards

Name		Conc. (µg/L)
Hexane	45059	n/a
PEM	SSIC-05-26-1	10-250
mix A	26-2	20-200
mix B	26-3	20-40
TOXA	27-1	500/25
1660	27-2	500/25
Chlordane	SSIB-05-40-1	2000/100

Column: A. RTX CLPEST I B. RTX CLPEST II

Electronic Data Archival

Location	Date
EZC_4_Pesticides	4/10/06

Comments:

Analyzed By: LB

Date Disposed:: 4/10/06 Disposed by: LB

This page is checked during data review.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR PESTICIDES/PCBs

SOP ☒ EMAX-8082 Revision No. 1 ☒ EMAX-8081 Revision No. 4 ☐ EMAX-CLP-PEST ☐ EMAX-608

Start Date: 1/11/06 Time: 20:52 Ending Date: 1/14/06 Time: 12:00 Book # A08-013

ANALYTICAL BATCH

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	SQ12.001	IB08A12001				
	2	TO08A12 1				
	3	2				
	4	3				
	5	4				
	6	5				
	7	21 08A12				
	8	32				
	9	42				
	10	48				
	11	54				
	12	60 08A12 1				
	13	2				
	14	3				
	15	4				
	16	5				
	17	PE08A12001				
	18	CP08A12 1a				
	19	1b				281 1/12/06
	20	2a				
	21	2b				
	22	3a				
	23	3b				
	24	4a				
	25	4b				
	26	5a				
	27	5b				

Instrument No: 08

INITIAL CALIBRATION REFERENCE

ICAL ID	Batch	Date
CP08A12	SQ12	1/12/06
TO		
60		

Standards

Name		Conc. (µg/L)
Hexane	45059	n/a
ICAL 1221	SSIB-05-33-1	2000/100
1232	33-2	
1242	33-3	
1248	34-1	
1254	34-2	
TOXA	35-1	
1660	34-3	
m.A	35-2	80-500
m.B	35-3	80-160
PEM	SSIC-05-26-1	10-250

Column	A. RTX CLPEST I B. RTX CLPEST II

Electronic Data Archival

Location	Date
EZC_4_Pesticides	

Comments:

Analyzed By: AC

Date Disposed:: 1/12/06 Disposed by: AC

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR PESTICIDES/PCBs

SOP ☑ EMAX-8082 Revision No. 1 ☑ EMAX-8081 Revision No. 4 ☐ EMAX-CLP-PEST ☐ EMAX-608

Start Date: 1/11/06 Time: 20:54 Ending Date: 1/14/06 Time: 12:00 Book # A08-013

ANALYTICAL BATCH SQ 18033

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	06112028	CP08A12 6Q				
	29	↓ 6E				
	30	ICP08A12Q				
	31	↓ 6				
	32	IT008A12				
	33	I608A12				
	34	CR 08A12 1				
	35	↓ 2				
	36	3				
	37	4				
	38	↓ 5				
	39	ICR08A12				
	40	I608A12				
	41	Blank				
	42	1221 ICAL				
	43	↓ ICV				
	44	1232 ICAL				
	45	↓ ICV				
	46	1242 ICAL				
	47	↓ ICV				
	48	1248 ICAL				
	49	↓ ICV				
	50	1254 ICAL				
	51	↓ ICV				
	52	IBC8A12002				
	53	C608A12002				
SQR0055	54	60A005SB	1	✓		Acid cl

Instrument No: 08

INITIAL CALIBRATION REFERENCE

ICAL ID	Batch	Date
CP 08A12	SQ12	1/12/06
TO ↓	↓	↓
60 ↓	↓	↓
CR ↓	↓	↓

Standards

Name		Conc. (µg/L)
Hexane	45059	4/6
ICV mix A	SSIB-05-36-1	80-800
↓ mix B	↓ 36-2	80-160
↓ TOXA	↓ 36-3	2000/100
↓ 1660	↓ 37-1	↓
ICAL Chlor.	27-2	↓
ICV Chlor.	↓ 27-1	↓
ICV 1660	SSIC-05-27-2	500/25

Column	A. RTX CLPEST I B. RTX CLPEST II

Electronic Data Archival

Location	Date
EZC_4_Pesticides	

Comments: -

Analyzed By: AG

Date Disposed:: Disposed by:

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

5260

ANALYSIS RUN LOG FOR PESTICIDES/PCBs

SOP ☑ EMAX-8082 Revision No. 1 ☑ EMAX-8081 Revision No. 4 ☐ EMAX-CLP-PEST ☐ EMAX-608

Start Date: 2/8/06 Time: 15:53 Ending Date: 2/9/06 Time: ~~18~~ 0210 Book # A08-013

ANALYTICAL BATCH SBO7A0254 RG 2/9/06

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	SB07.001	IB08B07001				
	2	TO08B07 1				
	3	2				
	4	3				
	5	4				
	6	5				
	7	2108B07				
	8	32				
	9	42				
	10	48				
	11	54				
	12	6008B07 1				
	13	2				
	14	3				
	15	4				
	16	5				
	17	PE08B07001				
	18	CP08B07 1a				
	19	1b				
	20	2a				
	21	2b				
	22	39				
	23	3b				
	24	4a				
	25	4b				
	26	5a				
	27	5b				

Instrument No: 08

INITIAL CALIBRATION REFERENCE

ICAL ID	Batch	Date
CP08B07	SB07	2/7/06
TO		
60		

Standards

Name		Conc. (µg/L)
Hexane	45059	n/a
ICAL 1221	2GIB-05-32-1	20000/100
1232	33-2	
1242	33-3	
1248	34-1	
1254	34-2	
TOXA	35-1	
1660	34-3	
m. A	32-2	80-800
m. B	35-3	80-160
PEM	SSIC-05-26-1	10-250

Column: A. RTX CLPEST I B. RTX CLPEST II

Electronic Data Archival

Location	Date
EZC_4_Pesticides	2/7/06

Comments:

Analyzed By: RB

Date Disposed:: 2/7/06 Disposed by: RB

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR PESTICIDES/PCBs

SOP ☑ EMAX-8082 Revision No. 1 ☐ EMAX-8081 Revision No. 4 ☐ EMAX-CLP-PEST ☐ EMAX-608

Start Date: 2/8/06 Time: 15:53 Ending Date: 2/9/06 Time: 18:10 Book # A08-013

ANALYTICAL BATCH 8607054

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	8B07.028	CP08B07 6a				
	29	6B				
	30	ICP08B07 9				
	31	ICP08B07 6				
	32	IT08B07				
	33	I600BB07				
	34	6208B07				
	35	6808B07				
	36	Blank				
	37	4808B07 1				
	38	2				
	39	3				
	40	4				
	41	5				
	42	I48 08B07				
	43	~~08B~~ 06A054-19	1		⌐	RR 2/8/06
	44	06A054-19T	5			
	45	19I	20			
	46	06A055-26	1			
	47	26T	5		↓	
	48	26I	50		⌐	
	49	06A145-11	1	⌐		
	50	11T	20	⌐		
	51	14	5	⌐		
	52	IB08B07002				
	53	PE 4				RR 2/8/06
	54	CCP 9				
	55	CCP 6				

Instrument No: 08

INITIAL CALIBRATION REFERENCE

ICAL ID	Batch	Date
CP 08B07	8607	2/7/06
TO		
60		
48		

Standards

Name		Conc. (µg/L)
Hexane	45059	n/a
ICV mix A	SSIB-05-31-1	80-800
mix B	36-2	80-160
TOX A	36-3	2000/100
1660	37-1	
1248	38-2	
ICAL 1248	34-1	
PEM	SSIC-05-26-1	10-280
mix A	26-2	20-200
mix B	26-3	20-40
1262	SSIB-05-39-1	2000/100
1268	39-2	
Column	A. RTX CLPEST I B. RTX CLPEST II	

Electronic Data Archival

Location	Date
EZC_4_Pesticides	

Comments:

Analyzed By: RE

Date Disposed:: Disposed by:

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

EXTRACTION LOG

EXTRACTION LOG FOR PESTICIDES/PCBs

SOP ☒ EMAX-3520 Rev. No.: 2 ☐ EMAX-3540 Rev. No.: 0 ☐ EMAX-3545 Rev. No.: 1 ☐ EMAX-3510 Rev. No.: 1 ☐ EMAX-3550 Rev. No.: 1 ☐ EMAX-3580 Rev. No.: 0 ☐ EMAX-CLP-PEST

Matrix: WATER Starting Date: 3/27/06 Time: 11:30 Ending Date: 3/28/06 Time: 5:30 Book # ECP-026

PREPARATION BATCH # CPC022W

Sample Prep ID	Lab Sample ID	Sonicator Number	Sample Amount (g/ml)	pH	Extract Volume (ml)	Clean-up [G] [F] [A] [S]	Notes
*01	CPC022-WB	N/A	1000	—	5		
*02	-WL *		1000	—	5		
*03	-WC *		1000	—	5		
*04	60C022-WL ▲		1000	—	5		
*05	-WC ▲		1000	—	5		
*06	06C204-01		1060	7	5		
*07	06C239-01		1060	5	5		
*08							
*09	3/28/06		JM				
*10							
*11							
*12							
*13							
*14							
*15							
*16							
*17							
*18							
*19							
*20							
*21							
*22							
*23							
*24							
*25							
*26							
*27							
*28							
*29							
*30							

Standards	ID	Amount Added (ml)
Surrogate	SPIC-05-27-3	0.5
LCS/MS (PEST ★)	SPIC-05-28-1	1.25
LCS (PCB ▲)	SPIC-05-28-2	0.25

Reagent	Lot# / ID
CH_2Cl_2	453K2
Hexane	45059
Na_2SO_4	45045
H_2SO_4	—
NaOH	—
Silica Sand	

TUNING

Sonicator #	Reading
	N/A

Concentrator Water Bath Temp.(oC)

1	35	35
2	35	35
3		
4		
5	60	60

Comments: Test thermometer = T_1

Prepared By: JM Checked By: ML ML 3/28/06

Witnessed By: JM Received By: ML

Standard Added By: ML Disposed By:

Extract Location: FE02-8 Disposal Date:

This page is checked during data review.

Clean-up Legend :[G]=GPC [A]=Acid [F]=Florisil [S]=Sulfur

EMAX LABORATORIES, INC. 1835 W 205th St. Torrance, CA 90501

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 3520C/8082
PCBs

SDG#: 06C204

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C204

METHOD 3520C/8082
PCBs

One (1) water sample was received on 03/23/06 for PCBs analysis by Method 3520C/8082 in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd ed.

1. Holding Time

Analytical holding time was met.

2. Instrument Performance and Calibration

Initial calibration was five points for PCB-1016 and PCB-1260, all RSDs were within 20%. All continue calibrations were analyzed at 12 hour interval and all recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

Recoveries were within QC limit.

5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

7. Sample Analysis

Sample was analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
PCBs

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C204
Instrument ID : GCT008

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	CPC022WB	1	NA	04/10/0613:20	03/27/0611:30	SD10008A	SD10006A	CPC022W	Method Blank
LCS1W	60C022WL	1	NA	04/10/0614:40	03/27/0611:30	SD10011A	SD10006A	CPC022W	Lab Control Sample (LCS)
LCD1W	60C022WC	1	NA	04/10/0615:06	03/27/0611:30	SD10012A	SD10006A	CPC022W	LCS Duplicate
M-120	C204-01	.94	NA	04/10/0615:32	03/27/0611:30	SD10013A	SD10006A	CPC022W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW3520C/8082
PCBs

Client	: ENSR	Date Collected:	03/22/06
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/23/06
Batch No.	: 06C204	Date Extracted:	03/27/06 11:30
Sample ID:	M-120	Date Analyzed:	04/10/06 15:32
Lab Samp ID:	C204-01	Dilution Factor:	.94
Lab File ID:	SD10013A	Matrix	: WATER
Ext Btch ID:	CPC022W	% Moisture	: NA
Calib. Ref.:	SD10006A	Instrument ID	: GCT008

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
PCB-1016	(ND) | ND	.47	.24 | .24
PCB-1221	(ND) | ND	.47	.24 | .24
PCB-1232	(ND) | ND	.47	.24 | .24
PCB-1242	(ND) | ND	.47	.24 | .24
PCB-1248	(ND) | ND	.47	.24 | .24
PCB-1254	(ND) | ND	.47	.24 | .24
PCB-1260	(ND) | ND	.47	.24 | .24

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(54) | 59	30-140
DECACHLOROBIPHENYL	(94) | 106	40-150

RL: Reporting Limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

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EMAX Analytical Laboratories, Inc.

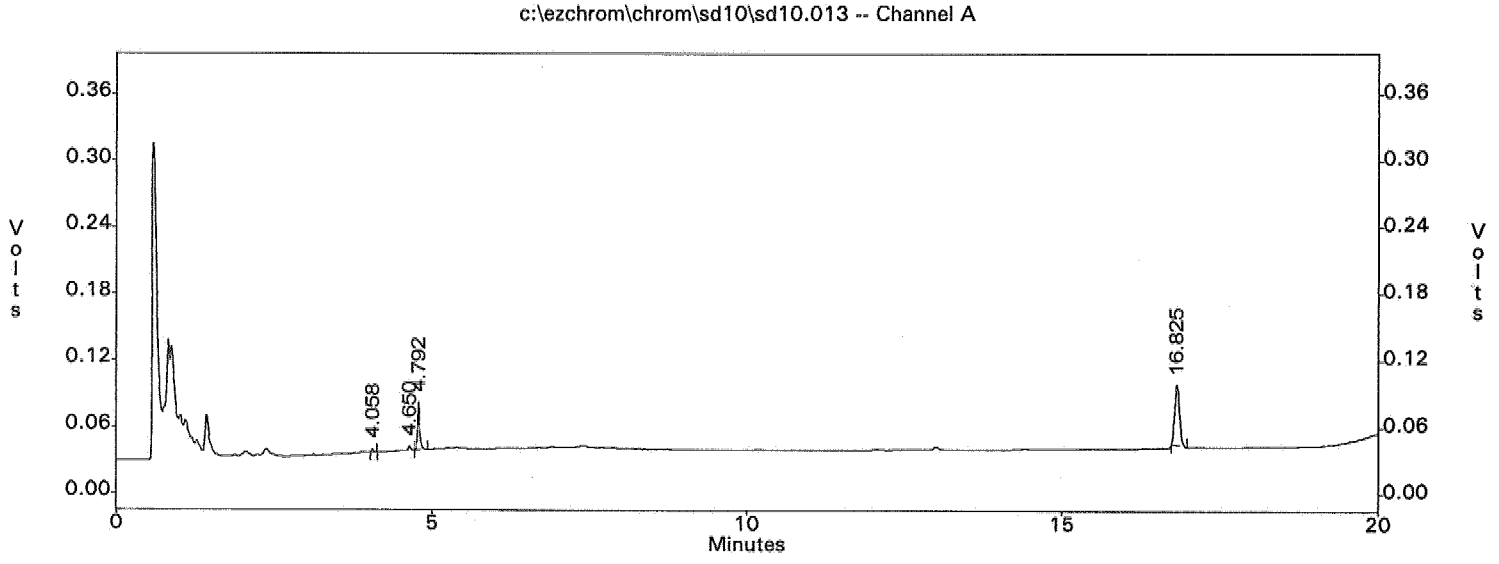
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : 06C204-01
Acquired : Apr 10, 2006 15:32:40
Printed : Apr 10, 2006 16:05:33
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
3	TCX	4.792	107037	5001.2	21.4
--	1016-1	5.392	0	0.0	0.0
--	1016-2	5.850	0	0.0	0.0
--	1016-3	6.417	0	0.0	0.0
--	1016-4	6.575	0	0.0	0.0
--	1016-5	7.775	0	0.0	0.0
--	1260-1	8.650	0	0.0	0.0
--	1260-2	10.008	0	0.0	0.0
--	1260-3	10.617	0	0.0	0.0
--	1260-4	11.492	0	0.0	0.0
--	1260-5	12.367	0	0.0	0.0
4	DCB	16.825	294673	7878.0	37.4
G4	PCB1221		0	0.0	0.0
G5	PCB1232		0	0.0	0.0
G6	PCB1242		0	0.0	0.0
G7	PCB1248		0	0.0	0.0
G8	PCB1254		0	0.0	0.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		0	0.0	0.0
G2	PCB1260		0	0.0	0.0



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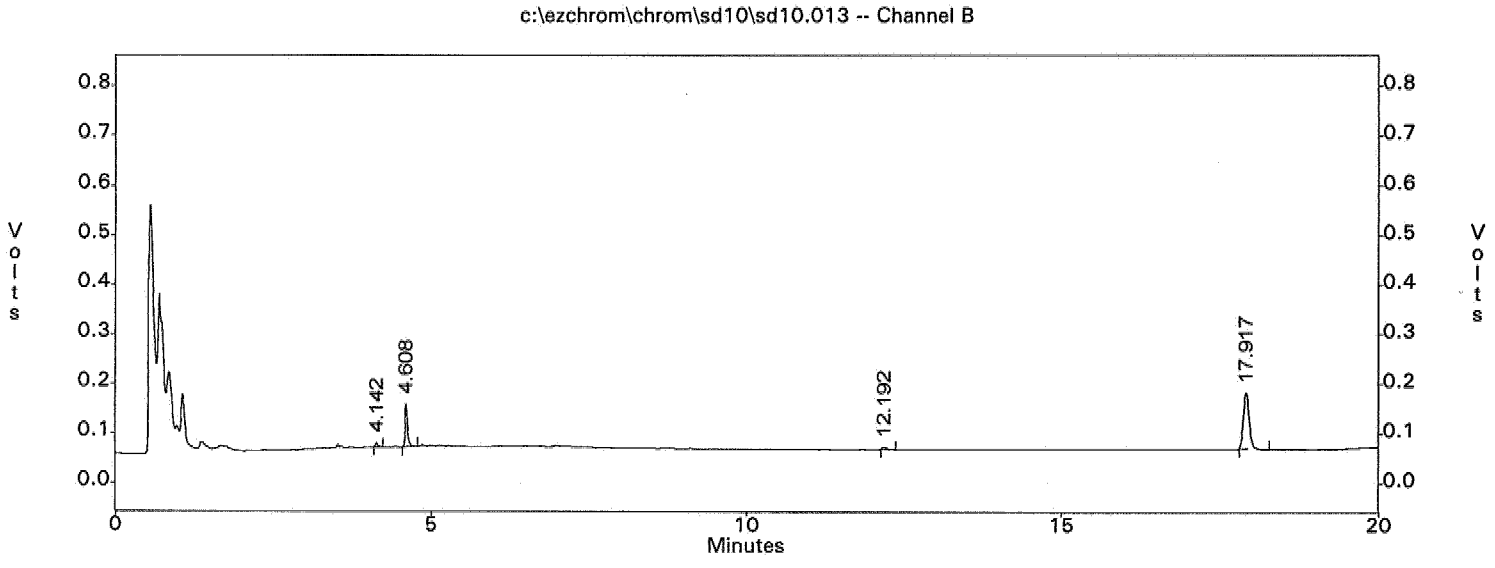
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Sample ID : 06C204-01
Acquired : Apr 10, 2006 15:32:40
Printed : Apr 10, 2006 16:05:33
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.608	234743	9931.1	23.6
--	1016-1	5.358	0	0.0	0.0
--	1016-2	5.850	0	0.0	0.0
--	1016-3	6.375	0	0.0	0.0
--	1016-4	6.533	0	0.0	0.0
--	1016-5	7.700	0	0.0	0.0
--	1260-1	8.667	0	0.0	0.0
--	1260-2	9.083	0	0.0	0.0
--	1260-3	10.058	0	0.0	0.0
--	1260-4	10.808	0	0.0	0.0
--	1260-5	11.600	0	0.0	0.0
4	DCB	17.917	721096	16957.9	42.5
G4	PCB1221		0	0.0	0.0
G5	PCB1232		0	0.0	0.0
G6	PCB1242		18724	0.0	0.0
G7	PCB1248		18724	0.0	0.0
G8	PCB1254		18724	0.0	0.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		0	0.0	0.0
G2	PCB1260		0	0.0	0.0



QC SUMMARIES

SW3520C/8082
PCBs

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/27/06
Batch No.	: 06C204	Date Extracted:	03/27/06 11:30
Sample ID:	MBLK1W	Date Analyzed:	04/10/06 13:20
Lab Samp ID:	CPC022WB	Dilution Factor:	1
Lab File ID:	SD10008A	Matrix :	WATER
Ext Btch ID:	CPC022W	% Moisture :	NA
Calib. Ref.:	SD10006A	Instrument ID :	GCT008

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
PCB-1016	(ND) | ND	.5	.25 | .25
PCB-1221	(ND) | ND	.5	.25 | .25
PCB-1232	(ND) | ND	.5	.25 | .25
PCB-1242	(ND) | ND	.5	.25 | .25
PCB-1248	(ND) | ND	.5	.25 | .25
PCB-1254	(ND) | ND	.5	.25 | .25
PCB-1260	(ND) | ND	.5	.25 | .25

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(55) | 60	30-130
DECACHLOROBIPHENYL	(89) | 102	40-150

RL: Reporting Limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: SW3520C/8082

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	CPC022WB	60C022WL	60C022WC		
LAB FILE ID:	SD10008A	SD10011A	SD10012A		
DATE EXTRACTED:	03/27/0611:30	03/27/0611:30	03/27/0611:30	DATE COLLECTED:	NA
DATE ANALYZED:	04/10/0613:20	04/10/0614:40	04/10/0615:06	DATE RECEIVED:	03/27/06
PREP. BATCH:	CPC022W	CPC022W	CPC022W		
CALIB. REF:	SD10006A	SD10006A	SD10006A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND) | ND	2.5	(1.69) | 1.94	(68) | 78	2.5	(2) | 2.26	(80) | 90	(17) | 15	50-130	30
PCB-1260	(ND) | ND	2.5	(2.53) | 2.83	(101) | 113	2.5	(2.66) | 2.97	(106) | 119	(5) | 5	70-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.2	(.116) | .124	(58) | 62	.2	(.146) | .144	(73) | 72	30-130
Decachlorobiphenyl	.2	(.177) | .203	(88) | 101	.2	(.187) | .205	(93) | 102	40-150

QC DATA

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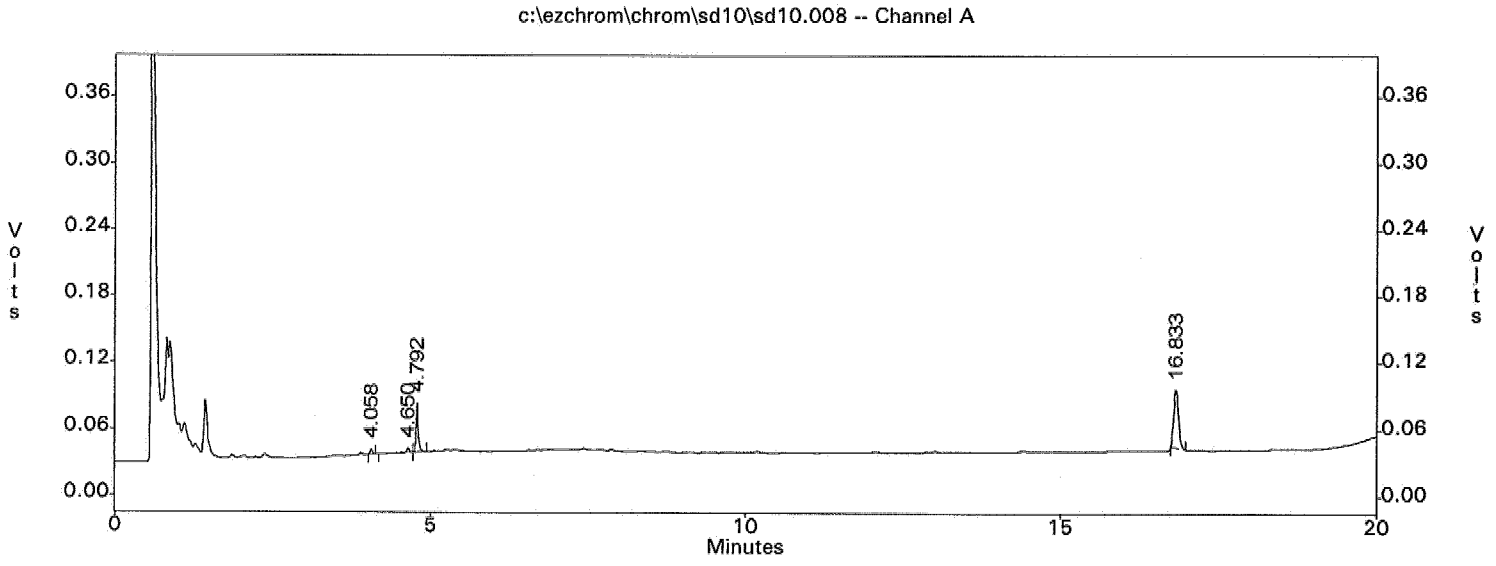
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Sample ID : CPC022WB
Acquired : Apr 10, 2006 13:20:58
Printed : Apr 10, 2006 16:05:21
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
3	TCX	4.792	110156	5001.2	22.0
--	1016-1	5.392	0	0.0	0.0
--	1016-2	5.850	0	0.0	0.0
--	1016-3	6.417	0	0.0	0.0
--	1016-4	6.575	0	0.0	0.0
--	1016-5	7.775	0	0.0	0.0
--	1260-1	8.650	0	0.0	0.0
--	1260-2	10.008	0	0.0	0.0
--	1260-3	10.617	0	0.0	0.0
--	1260-4	11.492	0	0.0	0.0
--	1260-5	12.367	0	0.0	0.0
4	DCB	16.833	279425	7878.0	35.5
G4	PCB1221		0	0.0	0.0
G5	PCB1232		0	0.0	0.0
G6	PCB1242		0	0.0	0.0
G7	PCB1248		0	0.0	0.0
G8	PCB1254		0	0.0	0.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		0	0.0	0.0
G2	PCB1260		0	0.0	0.0



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EMAX Analytical Laboratories, Inc.

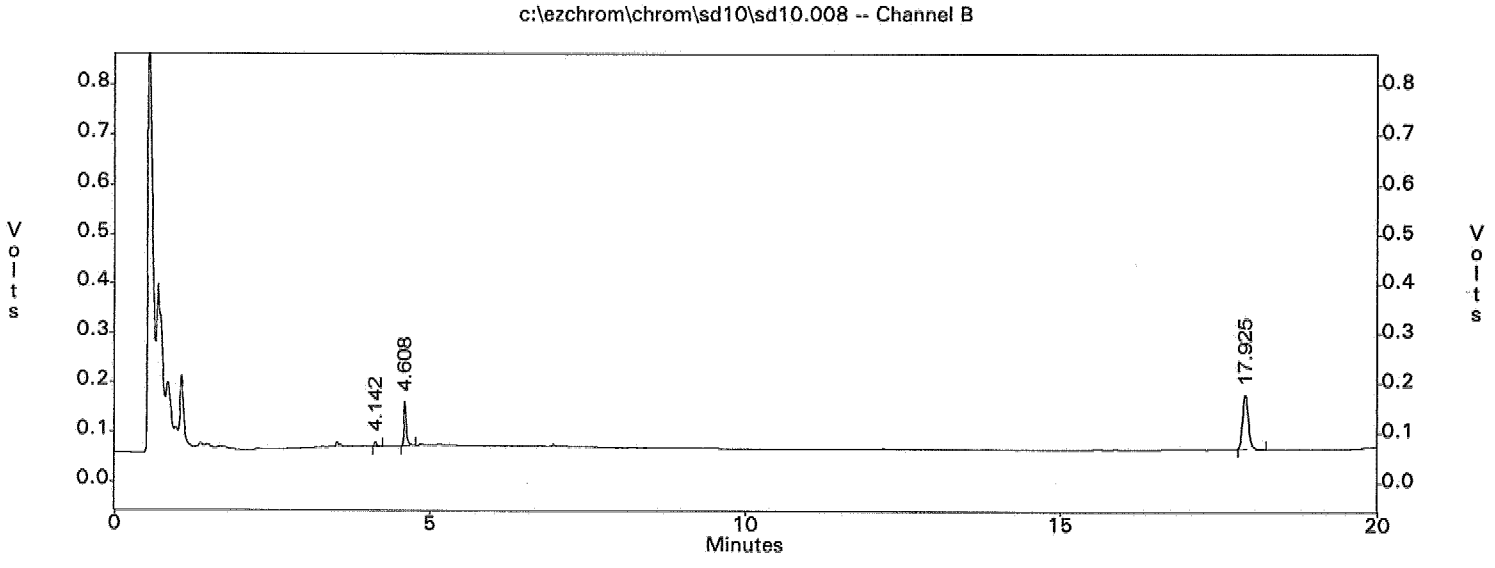
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : CPC022WB
Acquired : Apr 10, 2006 13:20:58
Printed : Apr 10, 2006 16:05:21
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.608	239660	9931.1	24.1
--	1016-1	5.358	0	0.0	0.0
--	1016-2	5.850	0	0.0	0.0
--	1016-3	6.375	0	0.0	0.0
--	1016-4	6.533	0	0.0	0.0
--	1016-5	7.700	0	0.0	0.0
--	1260-1	8.667	0	0.0	0.0
--	1260-2	9.083	0	0.0	0.0
--	1260-3	10.058	0	0.0	0.0
--	1260-4	10.808	0	0.0	0.0
--	1260-5	11.600	0	0.0	0.0
3	DCB	17.925	693731	16957.9	40.9
G4	PCB1221		0	0.0	0.0
G5	PCB1232		0	0.0	0.0
G6	PCB1242		0	0.0	0.0
G7	PCB1248		0	0.0	0.0
G8	PCB1254		0	0.0	0.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		0	0.0	0.0
G2	PCB1260		0	0.0	0.0



EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

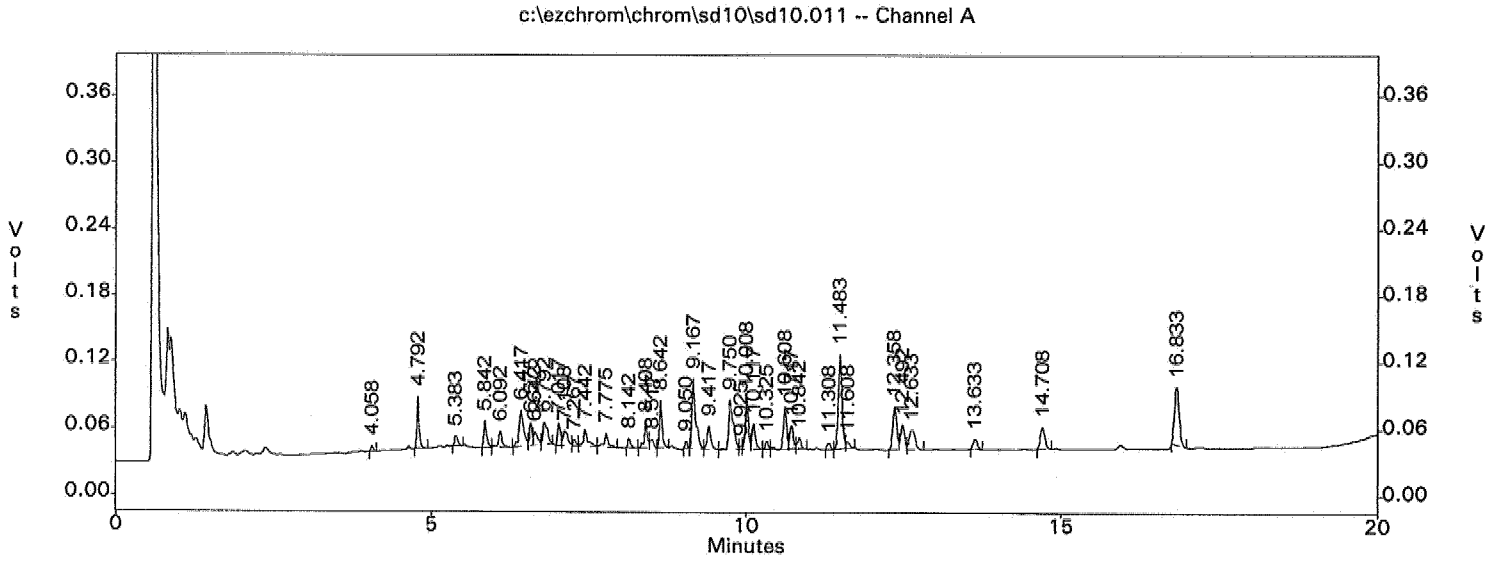
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User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.792	115571	5001.2	23.1
3	1016-1	5.383	30593	598.5	51.1
4	1016-2	5.842	79315	1141.6	69.5
6	1016-3	6.417	168463	2349.2	71.7
7	1016-4	6.575	63124	980.1	64.4
14	1016-5	7.775	57128	703.2	81.2
18	1260-1	8.642	133854	1570.0	85.3
24	1260-2	10.008	163651	1432.6	114.2
27	1260-3	10.608	148872	1515.7	98.2
31	1260-4	11.483	362708	3386.9	107.1
33	1260-5	12.358	171970	1708.4	100.7
38	DCB	16.833	278188	7878.0	35.3
G4	PCB1221		1030053	0.0	0.0
G5	PCB1232		2563385	0.0	0.0
G6	PCB1242		2953972	0.0	0.0
G7	PCB1248		2953972	0.0	0.0
G8	PCB1254		3092724	0.0	0.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		398623	0.0	338.0
G2	PCB1260		981055	0.0	505.5



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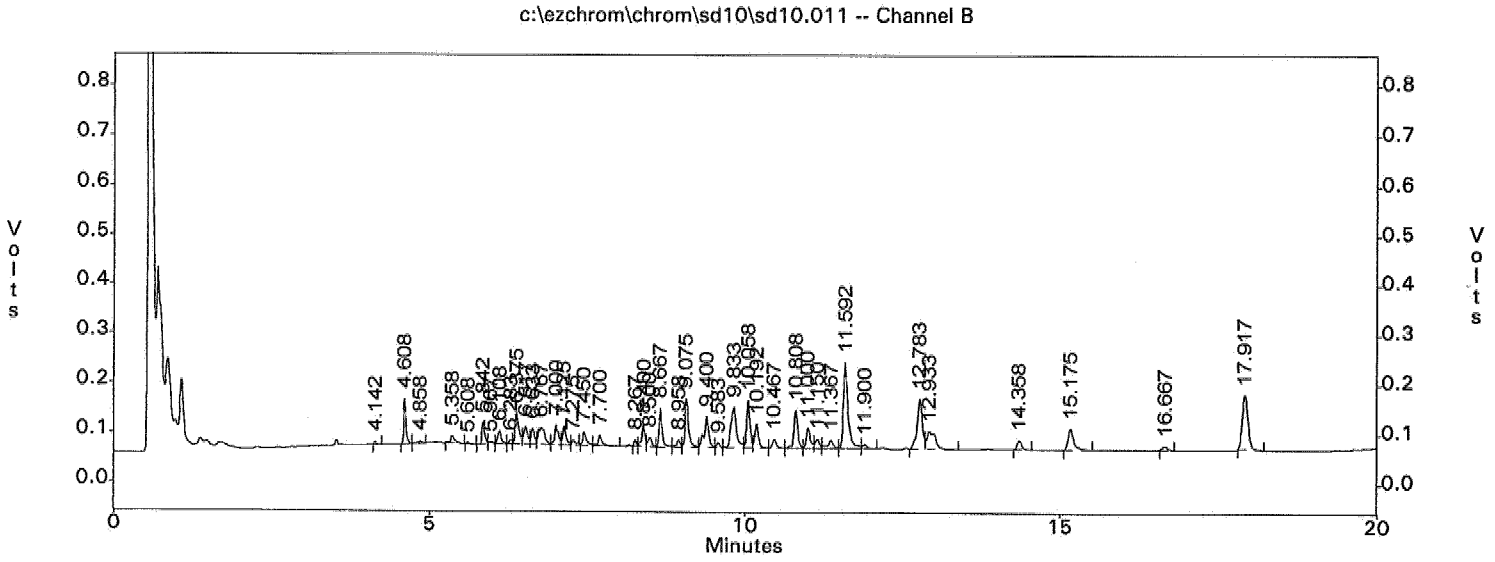
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User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.608	245801	9931.1	24.8
4	1016-1	5.358	69254	928.1	74.6
6	1016-2	5.842	140468	1901.0	73.9
10	1016-3	6.375	267484	3771.4	70.9
11	1016-4	6.517	161714	1945.0	83.1
18	1016-5	7.700	95589	1109.5	86.2
22	1260-1	8.667	264239	2893.4	91.3
24	1260-2	9.075	384341	3931.9	97.7
28	1260-3	10.058	362239	2974.8	121.8
31	1260-4	10.808	329170	2580.6	127.6
35	1260-5	11.592	923173	7269.8	127.0
42	DCB	17.917	687279	16957.9	40.5
G4	PCB1221		1498461	0.0	0.0
G5	PCB1232		4469634	0.0	0.0
G6	PCB1242		6540246	0.0	0.0
G7	PCB1248		6540246	0.0	0.0
G8	PCB1254		5979202	0.0	0.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		734509	0.0	388.7
G2	PCB1260		2263162	0.0	565.4



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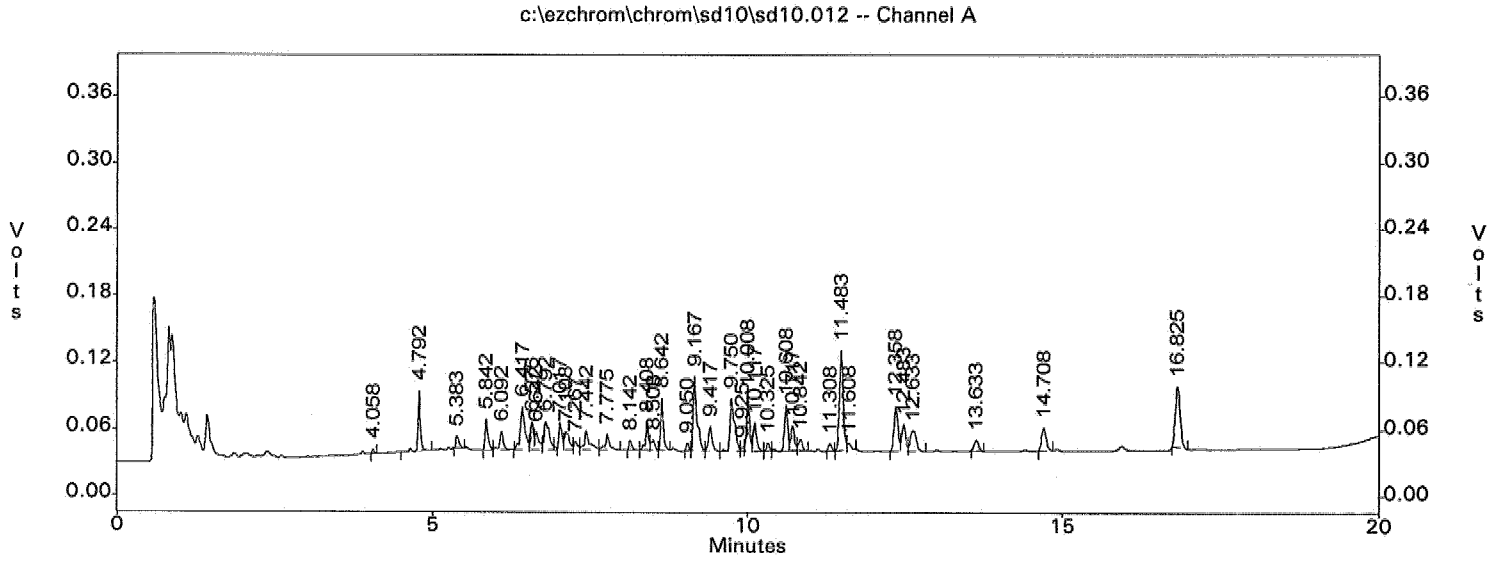
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Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.792	146117	5001.2	29.2
3	1016-1	5.383	35994	598.5	60.1
4	1016-2	5.842	91384	1141.6	80.0
6	1016-3	6.417	201588	2349.2	85.8
7	1016-4	6.575	79301	980.1	80.9
14	1016-5	7.775	65954	703.2	93.8
18	1260-1	8.642	145027	1570.0	92.4
24	1260-2	10.008	173253	1432.6	120.9
27	1260-3	10.608	154450	1515.7	101.9
31	1260-4	11.483	380431	3386.9	112.3
33	1260-5	12.358	178796	1708.4	104.7
38	DCB	16.825	294069	7878.0	37.3
G4	PCB1221		1264980	0.0	0.0
G5	PCB1232		2888110	0.0	0.0
G6	PCB1242		3294179	0.0	0.0
G7	PCB1248		3294179	0.0	0.0
G8	PCB1254		3437711	0.0	0.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		474221	0.0	400.7
G2	PCB1260		1031957	0.0	532.2



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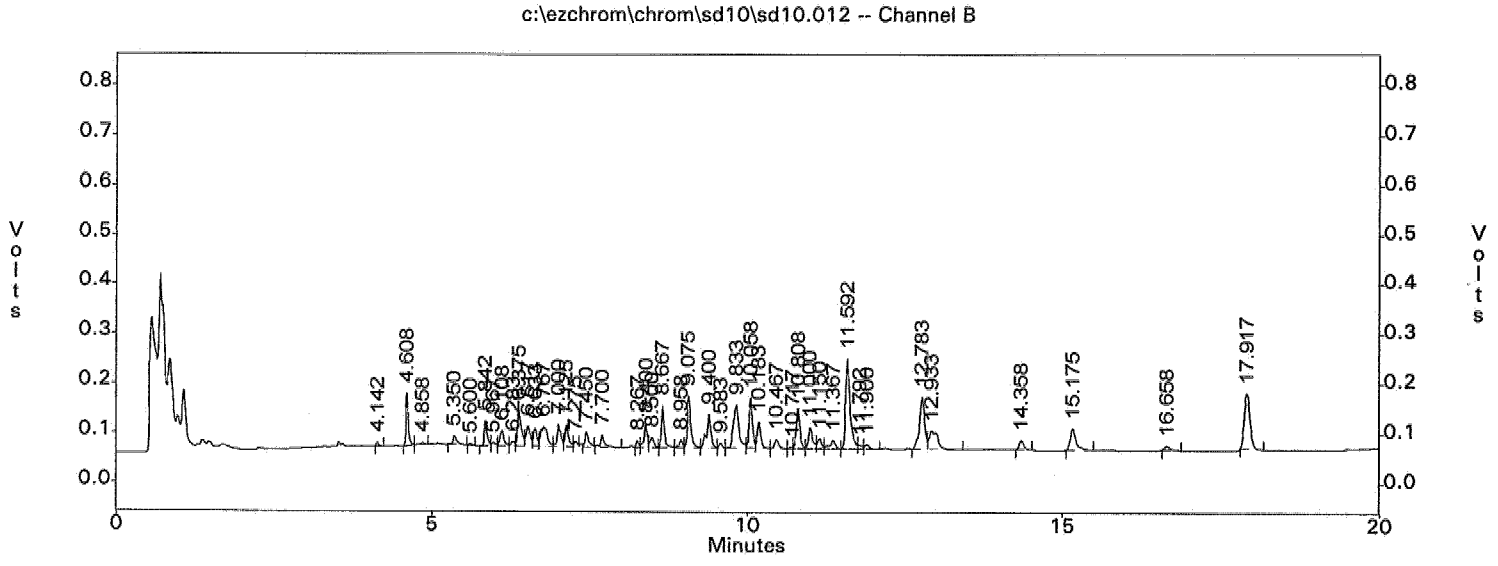
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : 60C022WC
Acquired : Apr 10, 2006 15:06:20
Printed : Apr 10, 2006 16:05:13
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
2	TCX	4.608	285347	9931.1	28.7
4	1016-1	5.350	80223	928.1	86.4
6	1016-2	5.842	164140	1901.0	86.3
10	1016-3	6.375	316048	3771.4	83.8
11	1016-4	6.517	189384	1945.0	97.4
18	1016-5	7.700	108055	1109.5	97.4
22	1260-1	8.667	286506	2893.4	99.0
24	1260-2	9.075	414230	3931.9	105.4
28	1260-3	10.058	386884	2974.8	130.1
32	1260-4	10.808	337534	2580.6	130.8
36	1260-5	11.592	935711	7269.8	128.7
44	DCB	17.917	694226	16957.9	40.9
G4	PCB1221		1732473	0.0	0.0
G5	PCB1232		4929537	0.0	0.0
G6	PCB1242		7102832	0.0	0.0
G7	PCB1248		7102832	0.0	0.0
G8	PCB1254		6372623	0.0	0.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		857850	0.0	451.3
G2	PCB1260		2360865	0.0	593.9



INITIAL CALIBRATIONS

INITIAL CALIBRATION
METHOD EPA 8082

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
LFID & Datetime: sb07012A 02/08/06 20:59
LFID & Datetime: sb07013A 02/08/06 21:27
LFID & Datetime: sb07014A 02/08/06 21:55
LFID & Datetime: sb07015A 02/08/06 22:23
LFID & Datetime: sb07016A 02/08/06 22:51
CONC UNIT: PPB

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT) 1.0X	2.5X	5.0X	7.5X	10.0X	MEAN	%RSD
PCB-1016-1	20.00	647.5	658.9	557.4	573.6	555.2	598.5	8.4
PCB-1016-2	20.00	1222.6	1186.4	1121.6	1108.5	1069.0	1141.6	5.4
PCB-1016-3	20.00	2846.6	2396.5	2229.4	2197.4	2075.9	2349.2	12.8
PCB-1016-4	20.00	1171.8	1011.5	918.0	903.3	896.1	980.1	11.9
PCB-1016-5	20.00	762.5	736.1	688.8	669.9	658.5	703.2	6.3
PCB-1260-1	20.00	1742.4	1644.4	1533.4	1485.6	1444.1	1570.0	7.8
PCB-1260-2	20.00	1504.6	1485.1	1421.1	1396.4	1355.6	1432.6	4.3
PCB-1260-3	20.00	1787.4	1771.8	1358.0	1348.5	1313.0	1515.7	15.9
PCB-1260-4	20.00	3615.1	3491.5	3333.3	3282.2	3212.2	3386.9	4.8
PCB-1260-5	20.00	1759.3	1773.3	1661.1	1682.5	1665.6	1708.4	3.1
SURROGATE	X	1.0X	2.5X	5.0X	7.5X	10.0X	MEAN	%RSD
TCX	5.00	5106.2	5051.4	4929.5	4960.8	4957.9	5001.2	1.5
DCB	5.00	7995.0	8074.2	7800.0	7796.6	7724.0	7878.0	1.9

KMP
2/16/06

INITIAL CALIBRATION
METHOD EPA 8082

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
LFID & Datetime: SB07012B 02/08/06 20:59
LFID & Datetime: SB07013B 02/08/06 21:27
LFID & Datetime: SB07014B 02/08/06 21:55
LFID & Datetime: SB07015B 02/08/06 22:23
LFID & Datetime: SB07016B 02/08/06 22:51
CONC UNIT: PPB

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT) 1.0X	2.5X	5.0X	7.5X	10.0X	MEAN	%RSD
PCB-1016-1	20.00	1097.2	911.3	894.3	878.1	859.5	928.1	10.4
PCB-1016-2	20.00	1992.9	2000.0	1864.0	1863.9	1784.1	1901.0	4.9
PCB-1016-3	20.00	4256.8	3994.9	3647.5	3545.4	3412.3	3771.4	9.2
PCB-1016-4	20.00	2570.9	1972.8	1793.6	1732.4	1655.3	1945.0	19.0
PCB-1016-5	20.00	1251.6	1177.7	1077.1	1035.8	1005.5	1109.5	9.2
PCB-1260-1	20.00	3249.8	3018.9	2817.0	2732.1	2649.3	2893.4	8.4
PCB-1260-2	20.00	4425.9	4143.9	3847.6	3683.3	3558.7	3931.9	9.0
PCB-1260-3	20.00	3078.3	3121.2	2961.1	2901.5	2812.1	2974.8	4.3
PCB-1260-4	20.00	2652.3	2679.5	2569.0	2527.6	2474.4	2580.6	3.3
PCB-1260-5	20.00	7674.6	7526.2	7209.5	7066.8	6872.0	7269.8	4.5
SURROGATE	X	1.0X	2.5X	5.0X	7.5X	10.0X	MEAN	%RSD
TCX	5.00	10082.0	10089.6	9892.2	9858.6	9733.1	9931.1	1.5
DCB	5.00	17268.8	17572.6	16830.4	16818.4	16299.3	16957.9	2.9

LMP 2/10/06

INITIAL CALIBRATION
METHOD EPA 8082

Lab Name : EMAX Inc
Instrument ID : GCTO08 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
LFID & Datetime: sb07012A 02/08/06 20:59
LFID & Datetime: sb07013A 02/08/06 21:27
LFID & Datetime: sb07014A 02/08/06 21:55
LFID & Datetime: sb07015A 02/08/06 22:23
LFID & Datetime: sb07016A 02/08/06 22:51

	RT OF STANDARDS (MIN)					MEAN	RT WINDOW		RTWINDOW
COMPOUND	1.0X	2.5X	5.0X	7.5X	10.0X	RT	FROM	TO	WIDTH
PCB-1016-1	5.642	5.642	5.642	5.642	5.642	5.642	5.567	5.717	0.075
PCB-1016-2	6.117	6.117	6.117	6.117	6.117	6.117	6.088	6.146	0.029
PCB-1016-3	6.675	6.675	6.675	6.675	6.683	6.677	6.648	6.706	0.029
PCB-1016-4	6.833	6.833	6.833	6.833	6.842	6.835	6.783	6.887	0.052
PCB-1016-5	8.158	8.150	8.150	8.150	8.158	8.153	8.049	8.257	0.104
PCB-1260-1	9.158	9.158	9.158	9.150	9.158	9.156	9.075	9.237	0.081
PCB-1260-2	10.692	10.692	10.692	10.692	10.692	10.692	10.574	10.810	0.118
PCB-1260-3	11.367	11.367	11.367	11.367	11.367	11.367	11.234	11.500	0.133
PCB-1260-4	12.333	12.333	12.333	12.333	12.342	12.335	12.248	12.422	0.087
PCB-1260-5	13.300	13.300	13.300	13.300	13.300	13.300	13.182	13.418	0.118
SURROGATE	1.0X	2.5X	5.0X	7.5X	10.0X	RT	FROM	TO	WIDTH
TCX	5.075	5.075	5.075	5.075	5.075	5.075	4.971	5.179	0.104
DCB	18.150	18.158	18.158	18.158	18.158	18.156	18.068	18.244	0.088

EMC 2/10/06

INITIAL CALIBRATION
METHOD EPA 8082

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
LFID & Datetime: SB07012B 02/08/06 20:59
LFID & Datetime: SB07013B 02/08/06 21:27
LFID & Datetime: SB07014B 02/08/06 21:55
LFID & Datetime: SB07015B 02/08/06 22:23
LFID & Datetime: SB07016B 02/08/06 22:51

	RT OF STANDARDS (MIN)					MEAN	RT WINDOW		RTWINDOW
COMPOUND	1.0X	2.5X	5.0X	7.5X	10.0X	RT	FROM	TO	WIDTH
PCB-1016-1	5.550	5.550	5.550	5.550	5.550	5.550	5.524	5.576	0.026
PCB-1016-2	6.058	6.058	6.058	6.058	6.058	6.058	6.042	6.074	0.016
PCB-1016-3	6.575	6.575	6.575	6.575	6.575	6.575	6.546	6.604	0.029
PCB-1016-4	6.717	6.717	6.717	6.717	6.725	6.719	6.694	6.744	0.025
PCB-1016-5	7.992	7.992	7.992	7.992	7.992	7.992	7.954	8.030	0.038
PCB-1260-1	9.092	9.092	9.092	9.092	9.092	9.092	9.035	9.149	0.057
PCB-1260-2	9.542	9.542	9.542	9.542	9.542	9.542	9.448	9.636	0.094
PCB-1260-3	10.633	10.633	10.633	10.633	10.633	10.633	10.566	10.700	0.067
PCB-1260-4	11.467	11.458	11.458	11.458	11.467	11.462	11.391	11.533	0.071
PCB-1260-5	12.300	12.300	12.300	12.300	12.308	12.302	12.202	12.402	0.100
SURROGATE	1.0X	2.5X	5.0X	7.5X	10.0X	RT	FROM	TO	WIDTH
TCX	4.833	4.833	4.833	4.833	4.833	4.833	4.757	4.909	0.076
DCB	19.108	19.108	19.108	19.108	19.117	19.110	19.060	19.160	0.050

VMP 7/18/06

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EMAX Analytical Laboratories, Inc.

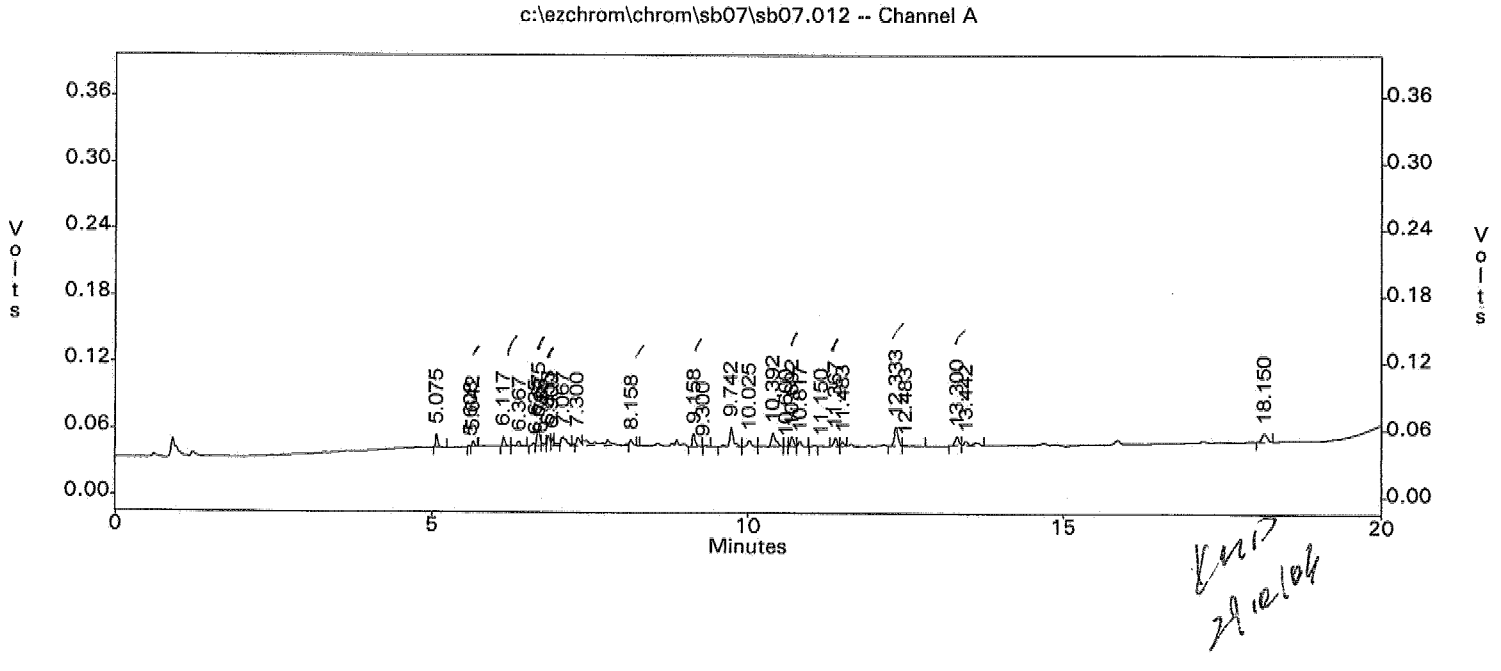
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Acquired : Feb 08, 2006 20:59:48
Printed : Feb 09, 2006 13:10:45
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	25531	5001.2	5.0
3	1016-1	5.642	12949	598.5	20.0
4	1016-2	6.117	24452	1141.6	20.0
7	1016-3	6.675	56932	2349.2	20.0
9	1016-4	6.833	23435	980.1	20.0
13	1016-5	8.158	15249	703.2	20.0
14	1260-1	9.158	34849	1570.0	20.0
20	1260-2	10.692	30091	1432.6	20.0
23	1260-3	11.367	35748	1515.7	20.0
25	1260-4	12.333	72303	3386.9	20.0
27	1260-5	13.300	35185	1708.4	20.0
29	DCB	18.150	39975	7878.0	5.0
G4	PCB1221		563201	0.0	-1.0
G5	PCB1232		835276	0.0	-1.0
G6	PCB1242		915888	0.0	-1.0
G7	PCB1248		915888	0.0	-1.0
G8	PCB1254		985600	0.0	-1.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		133017	0.0	100.0
G2	PCB1260		208176	0.0	100.0



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EMAX Analytical Laboratories, Inc.

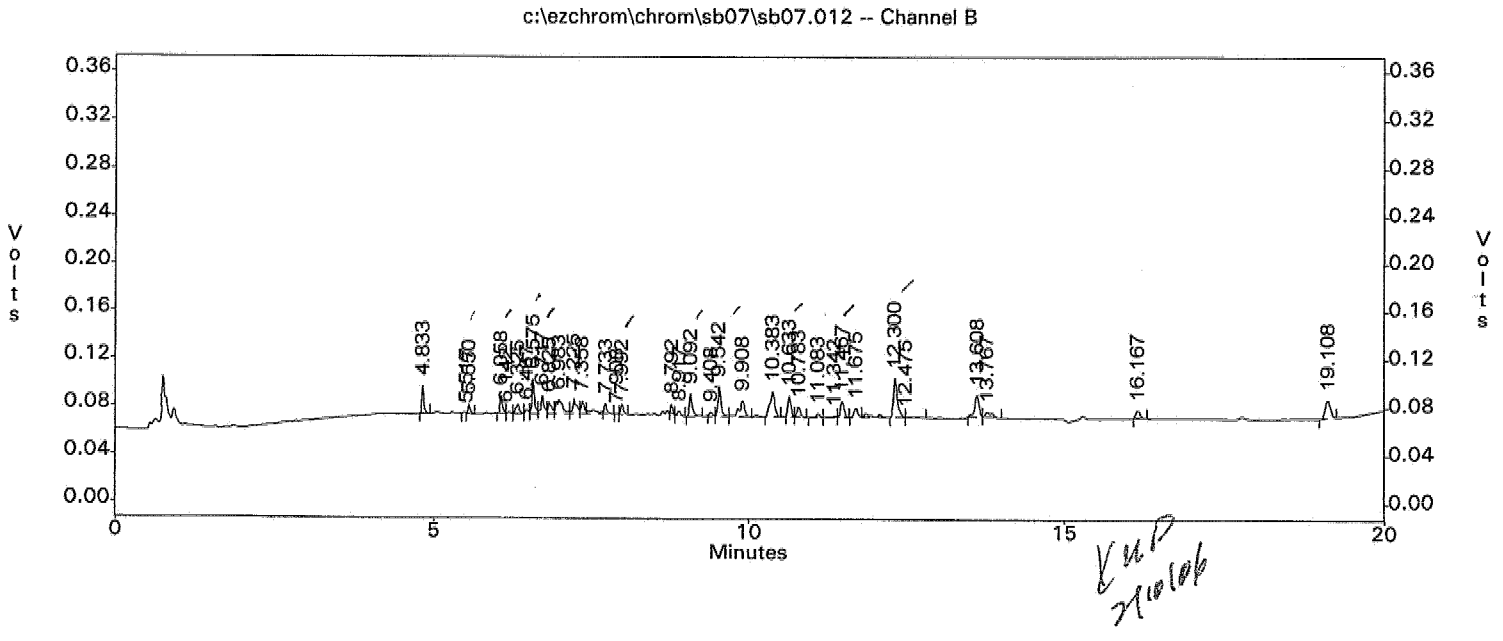
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : 6008B07 1
Acquired : Feb 08, 2006 20:59:48
Printed : Feb 09, 2006 13:10:45
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	50410	9931.1	5.0
3	1016-1	5.550	21943	928.1	20.0
4	1016-2	6.058	39858	1901.0	20.0
8	1016-3	6.575	85135	3771.4	20.0
9	1016-4	6.717	51419	1945.0	20.0
16	1016-5	7.992	25031	1109.5	20.0
19	1260-1	9.092	64995	2893.4	20.0
21	1260-2	9.542	88518	3931.9	20.0
24	1260-3	10.633	61565	2974.8	20.0
28	1260-4	11.467	53045	2580.6	20.0
30	1260-5	12.300	153493	7269.8	20.0
35	DCB	19.108	86344	16957.9	5.0
G4	PCB1221		483212	0.0	-1.0
G5	PCB1232		955581	0.0	-1.0
G6	PCB1242		1218186	0.0	-1.0
G7	PCB1248		1218186	0.0	-1.0
G8	PCB1254		1007547	0.0	-1.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		223386	0.0	100.0
G2	PCB1260		421616	0.0	100.0



EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

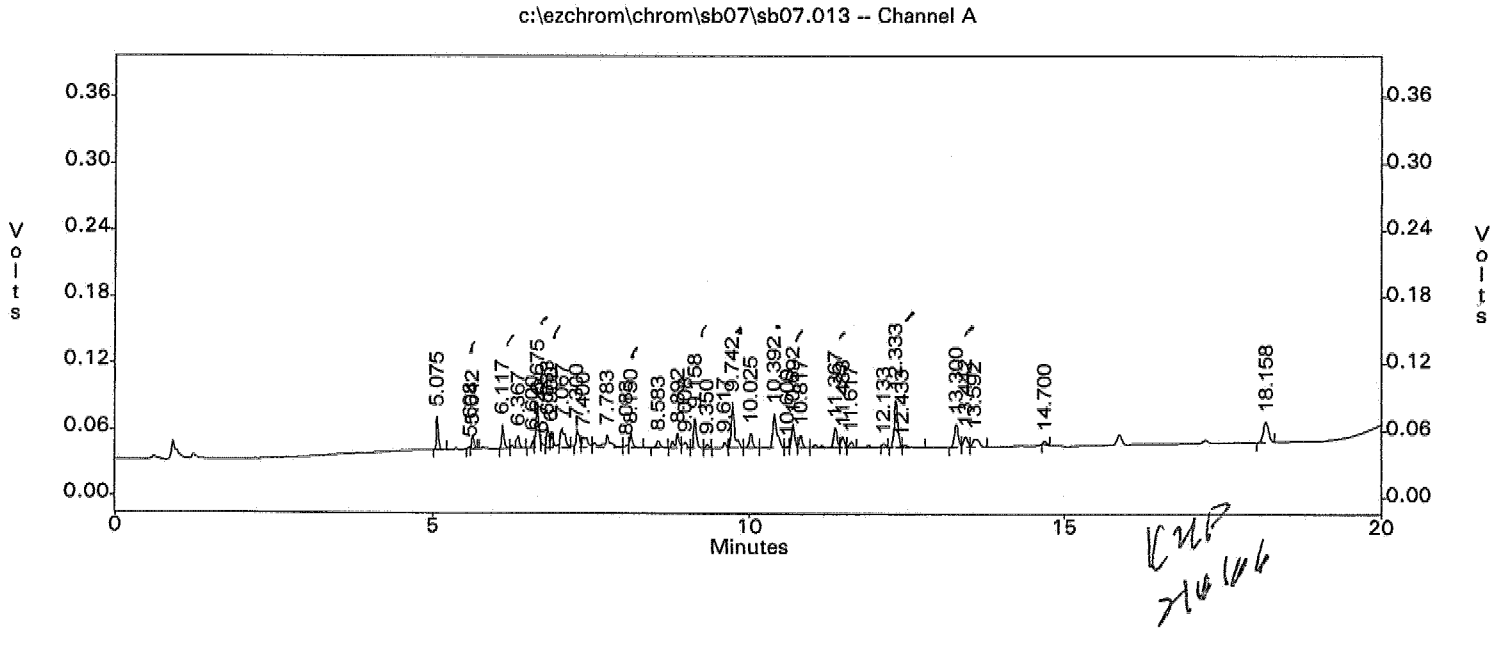
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User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	63143	5001.2	12.5
3	1016-1	5.642	32944	598.5	50.0
4	1016-2	6.117	59319	1141.6	50.0
7	1016-3	6.675	119823	2349.2	50.0
9	1016-4	6.833	50573	980.1	50.0
16	1016-5	8.150	36806	703.2	50.0
20	1260-1	9.158	82222	1570.0	50.0
27	1260-2	10.692	74257	1432.6	50.0
29	1260-3	11.367	88590	1515.7	50.0
33	1260-4	12.333	174577	3386.9	50.0
35	1260-5	13.300	88666	1708.4	50.0
39	DCB	18.158	100927	7878.0	12.5
G4	PCB1221		805042	0.0	-1.0
G5	PCB1232		1487846	0.0	-1.0
G6	PCB1242		1691817	0.0	-1.0
G7	PCB1248		1691817	0.0	-1.0
G8	PCB1254		1879191	0.0	-1.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		299465	0.0	250.0
G2	PCB1260		508312	0.0	250.0



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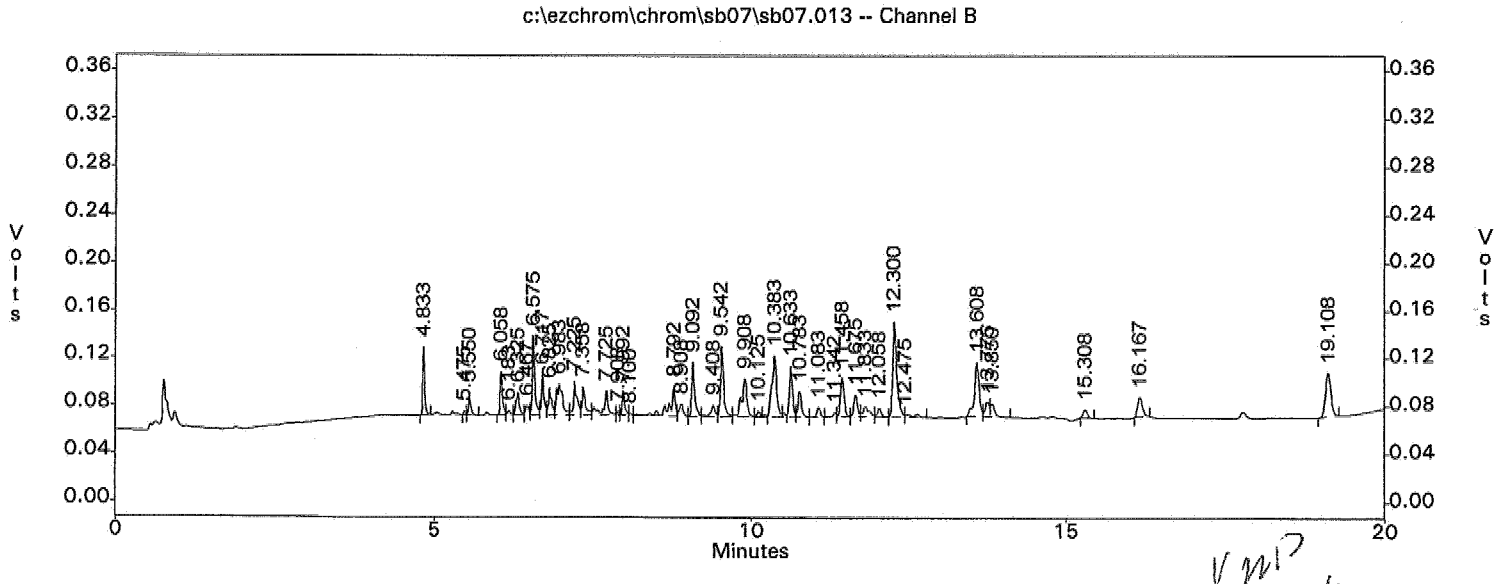
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Printed : Feb 09, 2006 13:10:56
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	126120	9931.1	12.5
3	1016-1	5.550	45563	928.1	50.0
4	1016-2	6.058	99999	1901.0	50.0
8	1016-3	6.575	199747	3771.4	50.0
9	1016-4	6.717	98638	1945.0	50.0
16	1016-5	7.992	58887	1109.5	50.0
20	1260-1	9.092	150946	2893.4	50.0
22	1260-2	9.542	207194	3931.9	50.0
26	1260-3	10.633	156060	2974.8	50.0
30	1260-4	11.458	133977	2580.6	50.0
34	1260-5	12.300	376309	7269.8	50.0
41	DCB	19.108	219658	16957.9	12.5
G4	PCB1221		1120888	0.0	-1.0
G5	PCB1232		2410662	0.0	-1.0
G6	PCB1242		3155632	0.0	-1.0
G7	PCB1248		3155632	0.0	-1.0
G8	PCB1254		2797436	0.0	-1.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		502834	0.0	250.0
G2	PCB1260		1024486	0.0	250.0



EMP 3/10/06

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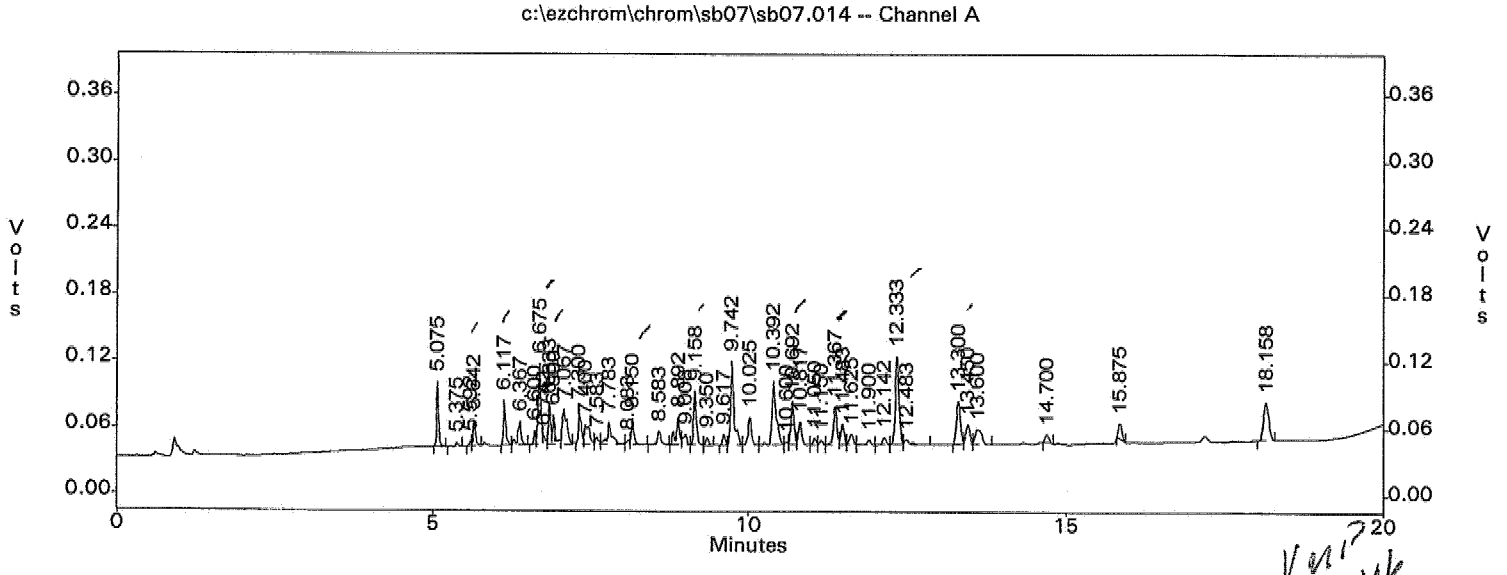
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Sample ID : 6008B07 3
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Printed : Feb 09, 2006 13:11:03
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	123237	5001.2	25.0
4	1016-1	5.642	55736	598.5	100.0
5	1016-2	6.117	112156	1141.6	100.0
8	1016-3	6.675	222944	2349.2	100.0
10	1016-4	6.833	91800	980.1	100.0
18	1016-5	8.150	68880	703.2	100.0
22	1260-1	9.158	153342	1570.0	100.0
29	1260-2	10.692	142112	1432.6	100.0
33	1260-3	11.367	135796	1515.7	100.0
38	1260-4	12.333	333331	3386.9	100.0
40	1260-5	13.300	166113	1708.4	100.0
45	DCB	18.158	195000	7878.0	25.0
G4	PCB1221		1457354	0.0	-1.0
G5	PCB1232		2779550	0.0	-1.0
G6	PCB1242		3170662	0.0	-1.0
G7	PCB1248		3170662	0.0	-1.0
G8	PCB1254		3587292	0.0	-1.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		551516	0.0	500.0
G2	PCB1260		930694	0.0	500.0



2/9/06

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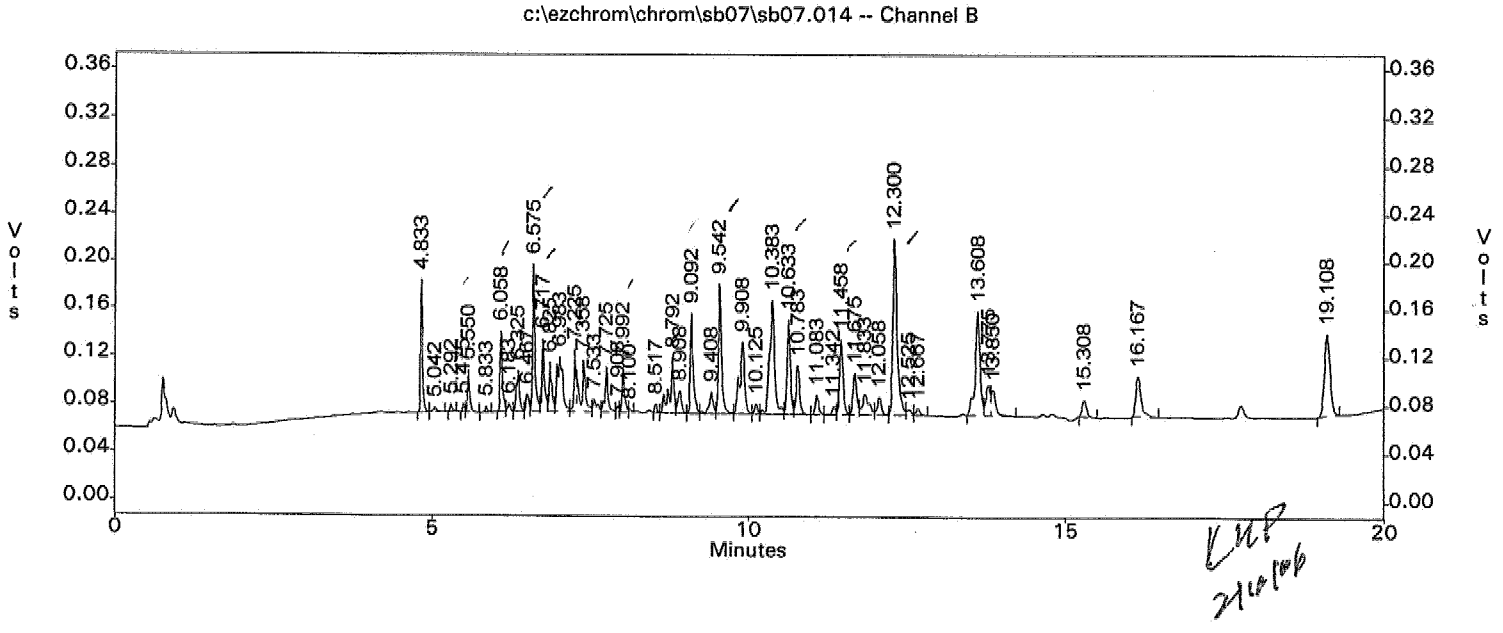
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Sample ID : 6008B07 3
Acquired : Feb 08, 2006 21:55:27
Printed : Feb 09, 2006 13:11:03
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	247306	9931.1	25.0
5	1016-1	5.550	89432	928.1	100.0
7	1016-2	6.058	186399	1901.0	100.0
11	1016-3	6.575	364753	3771.4	100.0
12	1016-4	6.717	179360	1945.0	100.0
20	1016-5	7.992	107710	1109.5	100.0
25	1260-1	9.092	281703	2893.4	100.0
27	1260-2	9.542	384760	3931.9	100.0
31	1260-3	10.633	296105	2974.8	100.0
35	1260-4	11.458	256904	2580.6	100.0
39	1260-5	12.300	720955	7269.8	100.0
47	DCB	19.108	420761	16957.9	25.0
G4	PCB1221		2020455	0.0	-1.0
G5	PCB1232		4421463	0.0	-1.0
G6	PCB1242		5866068	0.0	-1.0
G7	PCB1248		5866068	0.0	-1.0
G8	PCB1254		5298017	0.0	-1.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		927654	0.0	500.0
G2	PCB1260		1940427	0.0	500.0



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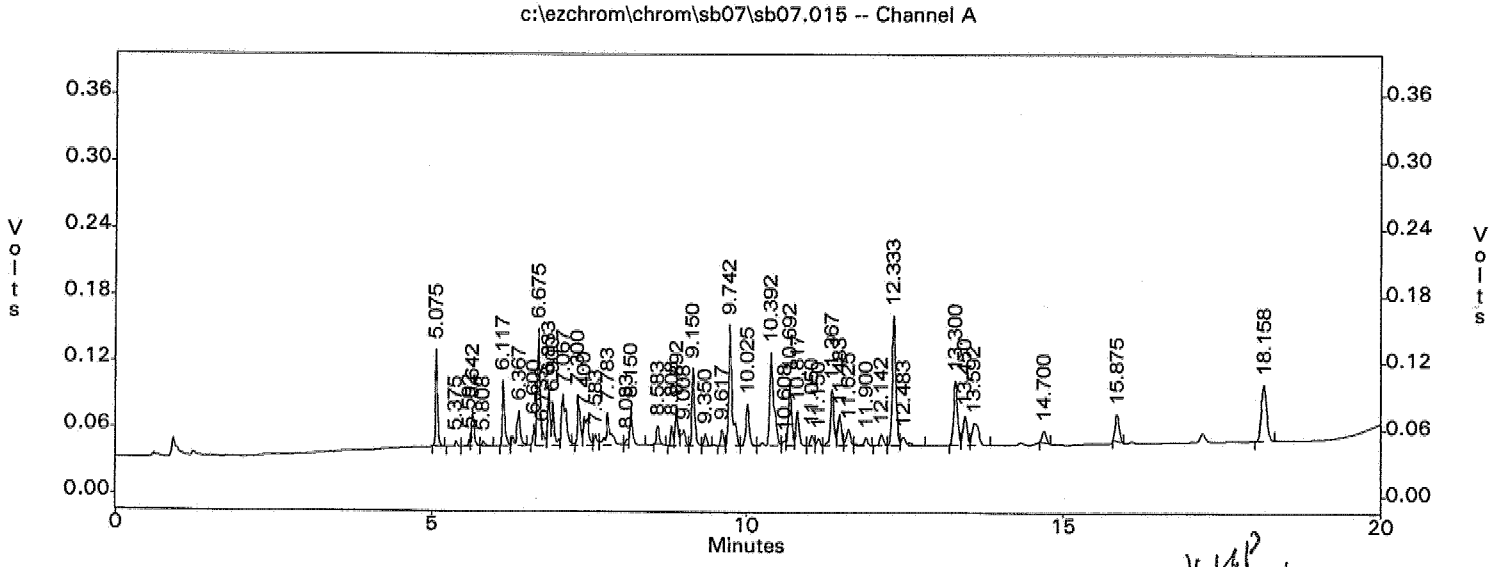
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : 6008B07 4
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Printed : Feb 09, 2006 13:11:09
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	186029	5001.2	37.5
4	1016-1	5.642	86039	598.5	150.0
6	1016-2	6.117	166281	1141.6	150.0
9	1016-3	6.675	329616	2349.2	150.0
11	1016-4	6.833	135491	980.1	150.0
19	1016-5	8.150	100490	703.2	150.0
24	1260-1	9.150	222844	1570.0	150.0
31	1260-2	10.692	209454	1432.6	150.0
35	1260-3	11.367	202273	1515.7	150.0
40	1260-4	12.333	492336	3386.9	150.0
42	1260-5	13.300	252374	1708.4	150.0
47	DCB	18.158	292373	7878.0	37.5
G4	PCB1221		2143434	0.0	-1.0
G5	PCB1232		4099325	0.0	-1.0
G6	PCB1242		4678791	0.0	-1.0
G7	PCB1248		4678791	0.0	-1.0
G8	PCB1254		5339974	0.0	-1.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		817917	0.0	750.0
G2	PCB1260		1379281	0.0	750.0



5293

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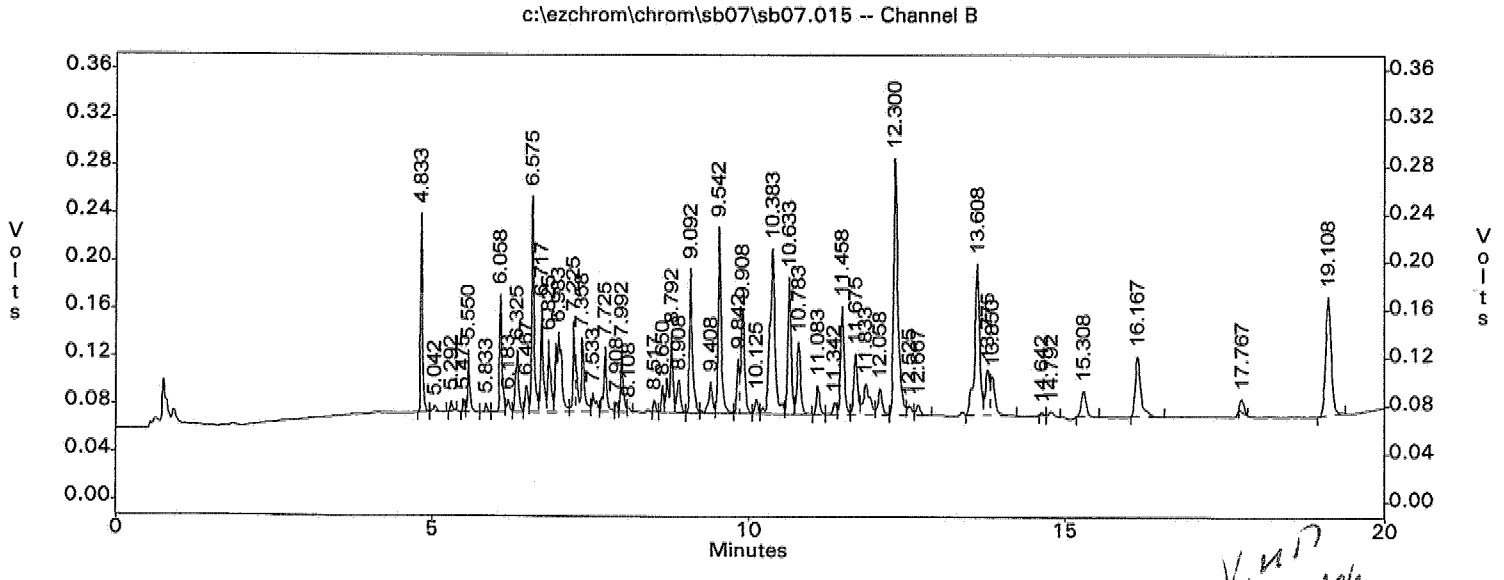
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : 6008B07 4
Acquired : Feb 08, 2006 22:23:19
Printed : Feb 09, 2006 13:11:10
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	369699	9931.1	37.5
5	1016-1	5.550	131721	928.1	150.0
7	1016-2	6.058	279578	1901.0	150.0
11	1016-3	6.575	531817	3771.4	150.0
12	1016-4	6.717	259866	1945.0	150.0
20	1016-5	7.992	155365	1109.5	150.0
26	1260-1	9.092	409822	2893.4	150.0
28	1260-2	9.542	552494	3931.9	150.0
33	1260-3	10.633	435230	2974.8	150.0
37	1260-4	11.458	379138	2580.6	150.0
41	1260-5	12.300	1060020	7269.8	150.0
52	DCB	19.108	630689	16957.9	37.5
G4	PCB1221		2944779	0.0	-1.0
G5	PCB1232		6461039	0.0	-1.0
G6	PCB1242		8608066	0.0	-1.0
G7	PCB1248		8608066	0.0	-1.0
G8	PCB1254		7832921	0.0	-1.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		1358347	0.0	750.0
G2	PCB1260		2836704	0.0	750.0



5294

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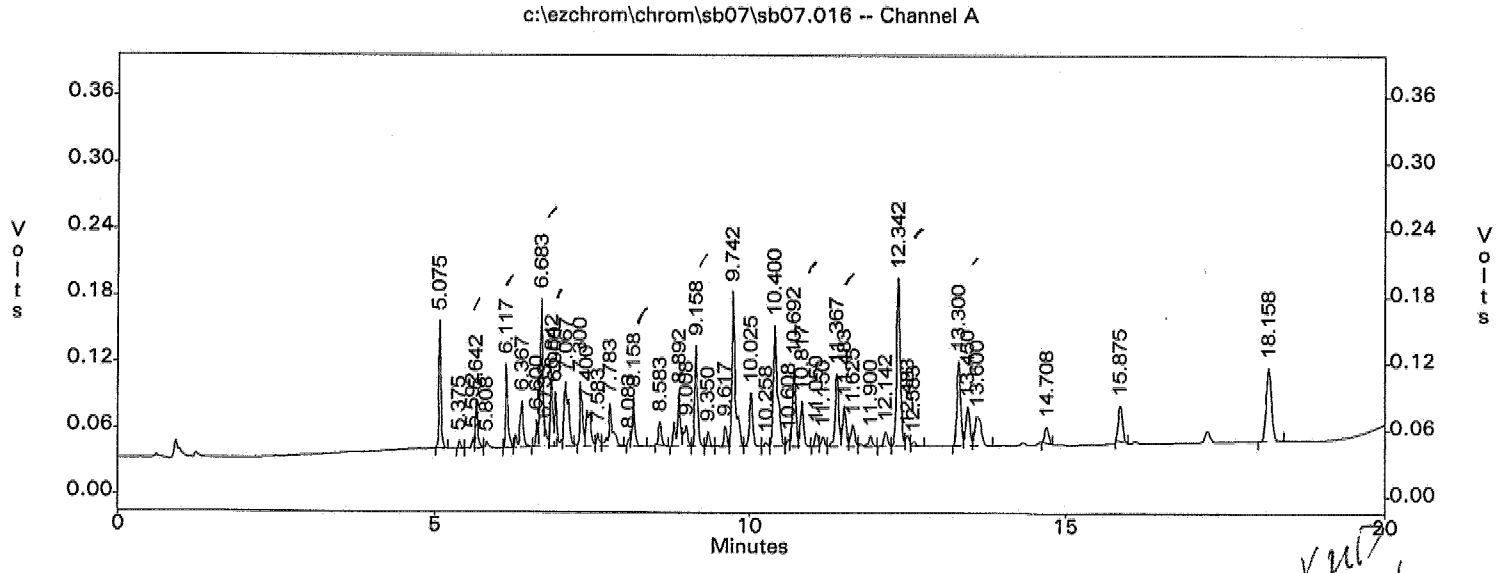
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : 6008B07 5
Acquired : Feb 08, 2006 22:51:09
Printed : Feb 09, 2006 13:11:16
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	247896	5001.2	50.0
4	1016-1	5.642	111048	598.5	200.0
6	1016-2	6.117	213792	1141.6	200.0
9	1016-3	6.683	415180	2349.2	200.0
11	1016-4	6.842	179222	980.1	200.0
19	1016-5	8.158	131704	703.2	200.0
23	1260-1	9.158	288817	1570.0	200.0
31	1260-2	10.692	271126	1432.6	200.0
35	1260-3	11.367	262601	1515.7	200.0
40	1260-4	12.342	642445	3386.9	200.0
43	1260-5	13.300	333118	1708.4	200.0
48	DCB	18.158	386202	7878.0	50.0
G4	PCB1221		2701510	0.0	-1.0
G5	PCB1232		5228133	0.0	-1.0
G6	PCB1242		5978366	0.0	-1.0
G7	PCB1248		5978366	0.0	-1.0
G8	PCB1254		6862904	0.0	-1.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		1050946	0.0	1000.0
G2	PCB1260		1798107	0.0	1000.0



5295

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

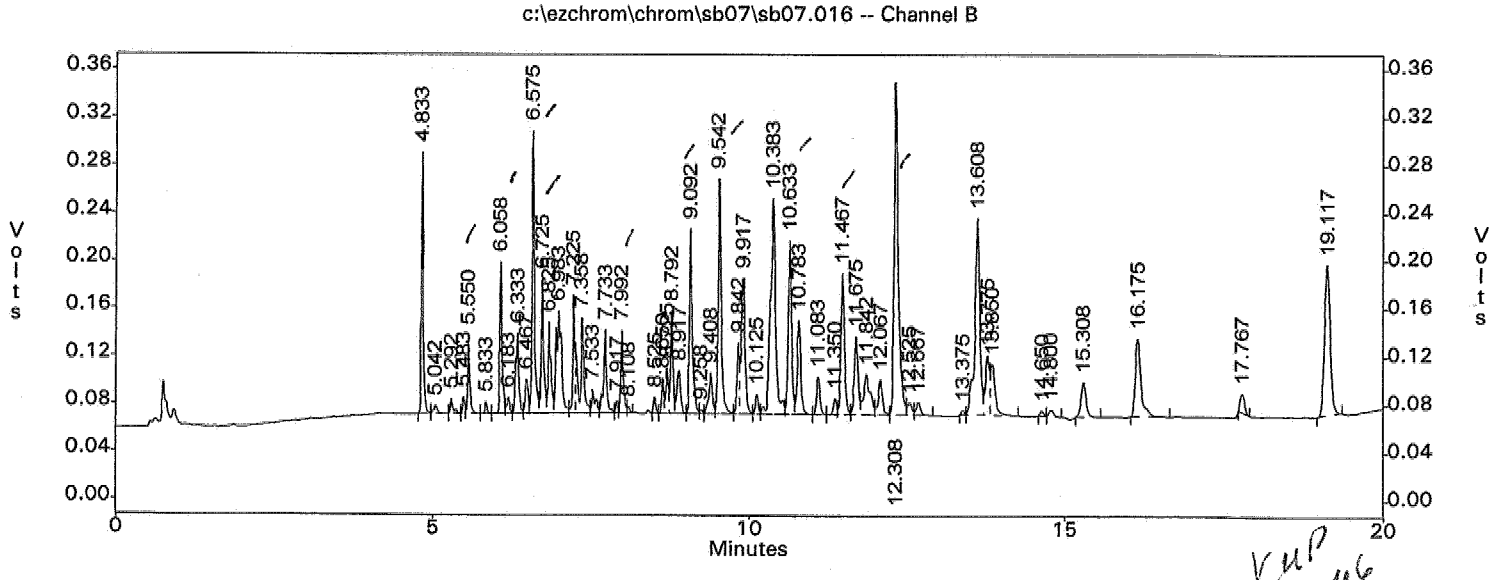
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : 6008B07 5
Acquired : Feb 08, 2006 22:51:09
Printed : Feb 09, 2006 13:11:16
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	486657	9931.1	50.0
5	1016-1	5.550	171897	928.1	200.0
7	1016-2	6.058	356829	1901.0	200.0
11	1016-3	6.575	682460	3771.4	200.0
12	1016-4	6.725	331064	1945.0	200.0
20	1016-5	7.992	201109	1109.5	200.0
27	1260-1	9.092	529850	2893.4	200.0
30	1260-2	9.542	711743	3931.9	200.0
35	1260-3	10.633	562419	2974.8	200.0
39	1260-4	11.467	494870	2580.6	200.0
43	1260-5	12.308	1374396	7269.8	200.0
55	DCB	19.117	814965	16957.9	50.0
G4	PCB1221		3767585	0.0	-1.0
G5	PCB1232		8328920	0.0	-1.0
G6	PCB1242		11129523	0.0	-1.0
G7	PCB1248		11129523	0.0	-1.0
G8	PCB1254		10223356	0.0	-1.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		1743359	0.0	1000.0
G2	PCB1260		3673278	0.0	1000.0



KHP 2/10/06

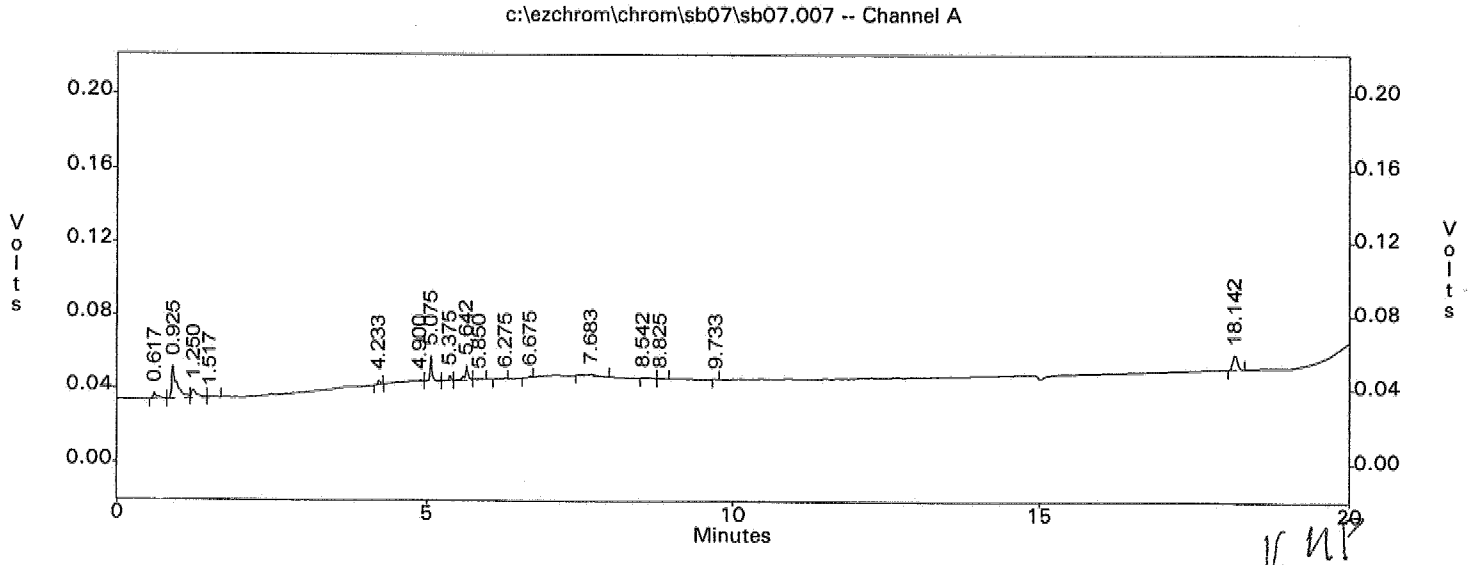
5296

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.007
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 2108B07
Acquired : Feb 08, 2006 18:40:29
Printed : Feb 09, 2006 12:59:47
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.617	16605	0.0	0.0
2		0.925	115698	0.0	0.0
3		1.250	30770	0.0	0.0
4		1.517	5219	0.0	0.0
5		4.233	6274	0.0	0.0
6		4.900	11502	0.0	0.0
7		5.075	31686	0.0	0.0
8		5.375	5746	0.0	0.0
10		5.850	4971	0.0	0.0
11		6.275	3714	0.0	0.0
12		6.675	2590	0.0	0.0
13		7.683	13296	0.0	0.0
14		8.542	3738	0.0	0.0
15		8.825	1989	0.0	0.0
16		9.733	889	0.0	0.0
17		18.142	44611	0.0	0.0



5297

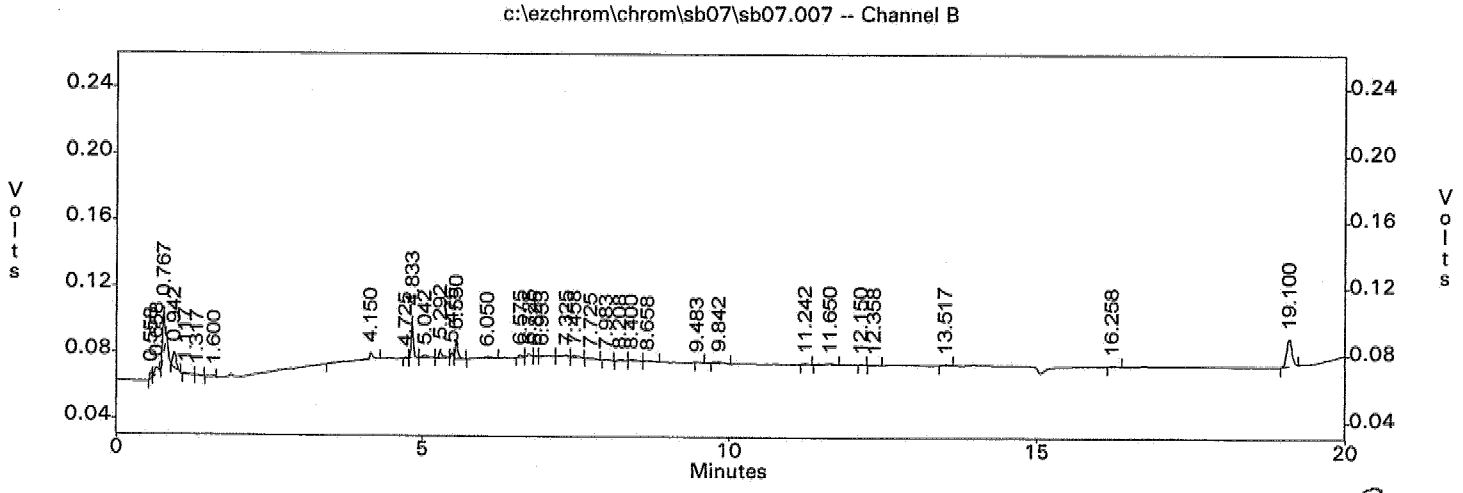
EPA 8081 GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.007
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 2108B07
Acquired : Feb 08, 2006 18:40:29
Printed : Feb 09, 2006 12:59:47
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.558	7686	0.0	0.0
2		0.658	17396	0.0	0.0
3		0.767	63367	0.0	0.0
4		0.942	34992	0.0	0.0
5		1.117	4921	0.0	0.0
6		1.317	3118	0.0	0.0
7		1.600	4844	0.0	0.0
8		4.150	28162	0.0	0.0
9		4.725	1692	0.0	0.0
10		4.833	56256	0.0	0.0
11		5.042	12209	0.0	0.0
12		5.292	20278	0.0	0.0
13		5.475	9046	0.0	0.0
14		5.550	31423	0.0	0.0
15		6.050	13119	0.0	0.0
16		6.575	6296	0.0	0.0
17		6.725	8947	0.0	0.0
18		6.825	3306	0.0	0.0
19		6.933	6606	0.0	0.0
20		7.325	7251	0.0	0.0
21		7.458	7765	0.0	0.0
22		7.725	4036	0.0	0.0
23		7.983	4056	0.0	0.0
24		8.208	5676	0.0	0.0
25		8.400	6068	0.0	0.0
26		8.658	3928	0.0	0.0
27		9.483	1268	0.0	0.0

Continued...



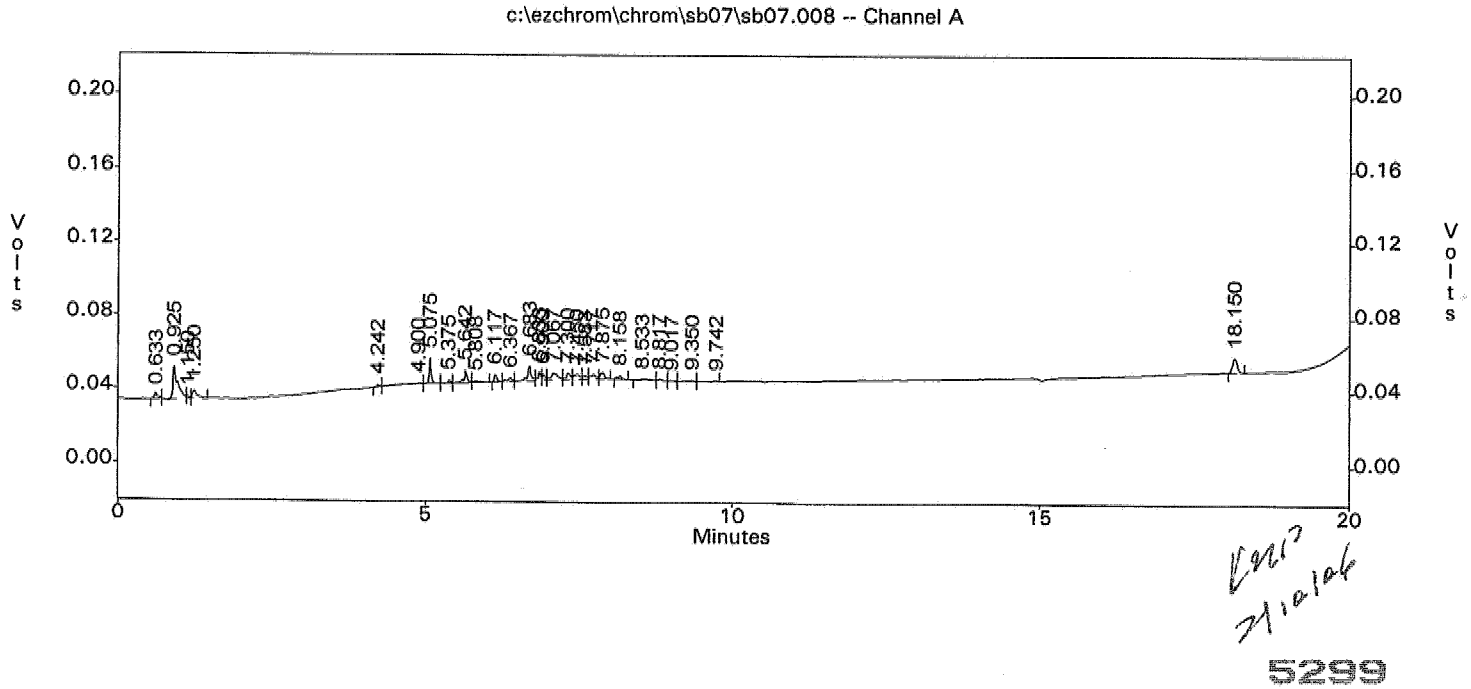
KMP 2/10/06

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.008
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 3208B07
Acquired : Feb 08, 2006 19:08:19
Printed : Feb 09, 2006 13:00:05
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.633	12862	0.0	0.0
2		0.925	96023	0.0	0.0
3		1.150	4353	0.0	0.0
4		1.250	23743	0.0	0.0
5		4.242	3441	0.0	0.0
6		4.900	11352	0.0	0.0
7		5.075	30360	0.0	0.0
8		5.375	3576	0.0	0.0
10		5.808	6635	0.0	0.0
11		6.117	11921	0.0	0.0
12		6.367	10354	0.0	0.0
13		6.683	36839	0.0	0.0
15		6.900	11072	0.0	0.0
16		7.067	32906	0.0	0.0
18		7.450	19954	0.0	0.0
19		7.583	10076	0.0	0.0
20		7.717	16068	0.0	0.0
21		7.875	15544	0.0	0.0
22		8.158	8215	0.0	0.0
23		8.533	6998	0.0	0.0
24		8.817	3699	0.0	0.0
25		9.017	1039	0.0	0.0
26		9.350	4410	0.0	0.0
27		9.742	2011	0.0	0.0
28		18.150	43620	0.0	0.0



5299

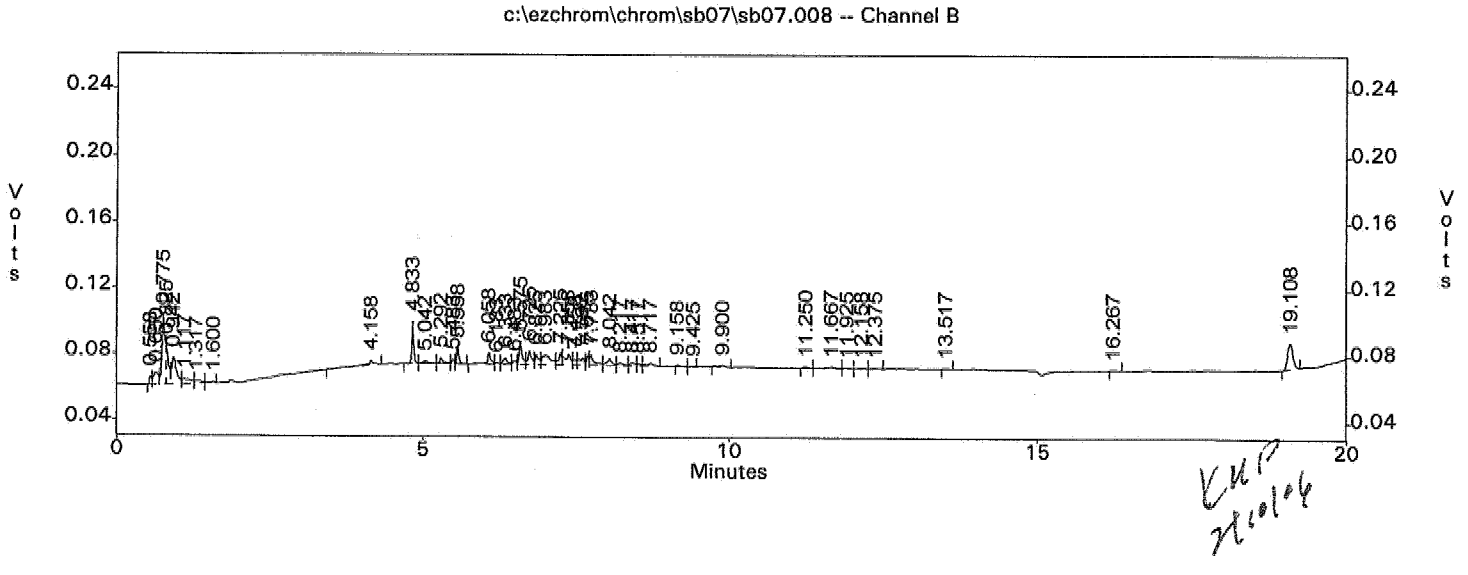
EPA 8081 GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.008
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 3208B07
Acquired : Feb 08, 2006 19:08:19
Printed : Feb 09, 2006 13:00:05
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.558	12501	0.0	0.0
2		0.650	41058	0.0	0.0
3		0.775	167365	0.0	0.0
4		0.825	60010	0.0	0.0
5		0.942	91247	0.0	0.0
6		1.117	28897	0.0	0.0
7		1.317	14454	0.0	0.0
8		1.600	8162	0.0	0.0
9		4.158	25261	0.0	0.0
10		4.833	56943	0.0	0.0
11		5.042	10291	0.0	0.0
12		5.292	14797	0.0	0.0
13		5.483	6607	0.0	0.0
14		5.558	25537	0.0	0.0
15		6.058	34467	0.0	0.0
16		6.183	5794	0.0	0.0
17		6.333	20782	0.0	0.0
18		6.483	9932	0.0	0.0
19		6.575	49861	0.0	0.0
20		6.725	35530	0.0	0.0
21		6.825	25982	0.0	0.0
22		6.983	57541	0.0	0.0
23		7.225	27473	0.0	0.0
24		7.358	44762	0.0	0.0
25		7.458	13988	0.0	0.0
27		7.675	16318	0.0	0.0
28		7.733	32577	0.0	0.0

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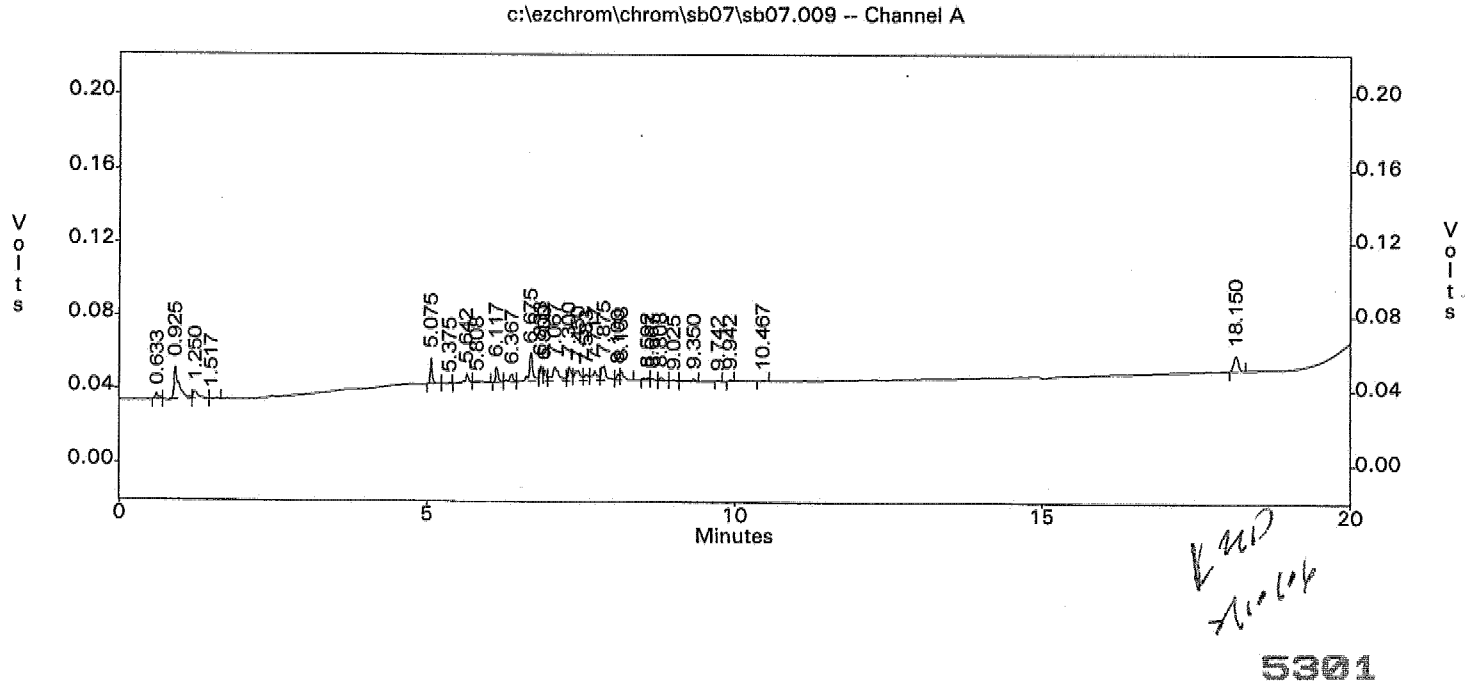


EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.009
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 4208B07
Acquired : Feb 08, 2006 19:36:12
Printed : Feb 09, 2006 13:00:21
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.633	12440	0.0	0.0
2		0.925	101325	0.0	0.0
3		1.250	25648	0.0	0.0
4		1.517	2676	0.0	0.0
5		5.075	30471	0.0	0.0
6		5.375	1225	0.0	0.0
8		5.808	7293	0.0	0.0
9		6.117	23359	0.0	0.0
10		6.367	18864	0.0	0.0
11		6.675	70512	0.0	0.0
13		6.900	17559	0.0	0.0
14		7.067	62833	0.0	0.0
16		7.450	37455	0.0	0.0
17		7.583	16465	0.0	0.0
18		7.717	30020	0.0	0.0
19		7.875	43987	0.0	0.0
20		8.100	10281	0.0	0.0
21		8.158	16280	0.0	0.0
22		8.592	6063	0.0	0.0
23		8.667	3152	0.0	0.0
24		8.808	6008	0.0	0.0
25		9.025	2233	0.0	0.0
26		9.350	7442	0.0	0.0
27		9.742	978	0.0	0.0
28		9.942	2660	0.0	0.0
29		10.467	1758	0.0	0.0
30		18.150	45370	0.0	0.0



5301

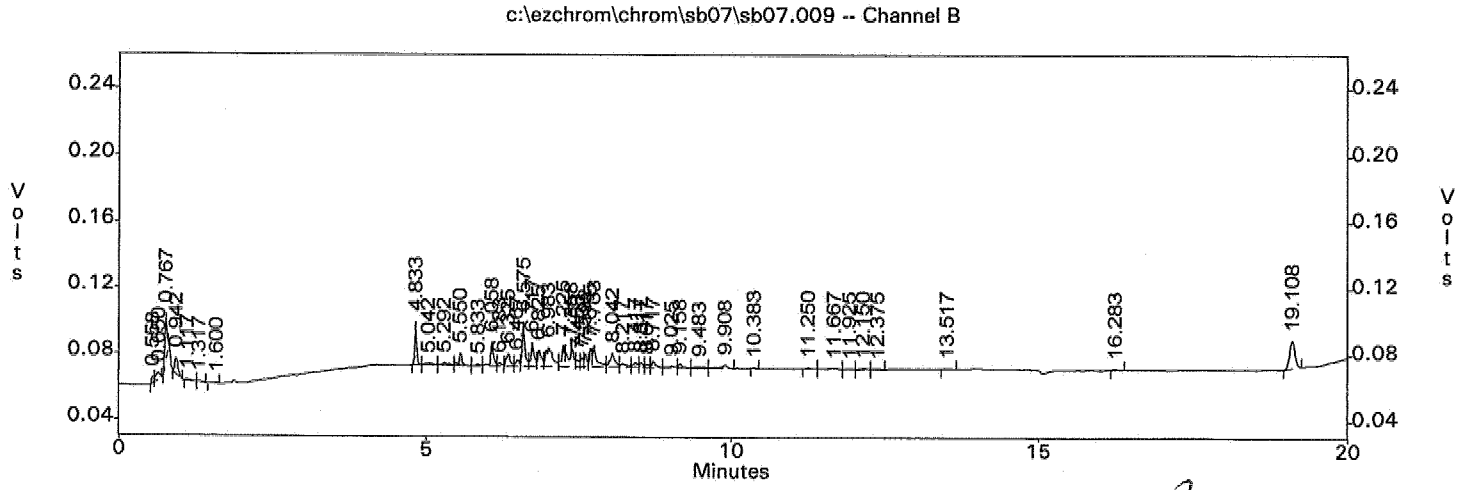
EPA 8081 GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.009
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 4208B07
Acquired : Feb 08, 2006 19:36:12
Printed : Feb 09, 2006 13:00:21
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.558	9384	0.0	0.0
2		0.650	20853	0.0	0.0
3		0.767	63524	0.0	0.0
4		0.942	37212	0.0	0.0
5		1.117	5361	0.0	0.0
6		1.317	2886	0.0	0.0
7		1.600	3772	0.0	0.0
8		4.833	58061	0.0	0.0
9		5.042	8401	0.0	0.0
10		5.292	11061	0.0	0.0
11		5.550	24300	0.0	0.0
12		5.833	5466	0.0	0.0
13		6.058	48774	0.0	0.0
14		6.183	9487	0.0	0.0
15		6.325	34302	0.0	0.0
16		6.467	16008	0.0	0.0
17		6.575	87096	0.0	0.0
18		6.717	52419	0.0	0.0
19		6.825	40808	0.0	0.0
20		6.983	89634	0.0	0.0
21		7.225	43042	0.0	0.0
22		7.358	71441	0.0	0.0
23		7.458	14985	0.0	0.0
24		7.533	17841	0.0	0.0
26		7.675	30284	0.0	0.0
27		7.733	58566	0.0	0.0
28		8.042	50482	0.0	0.0

Continued...



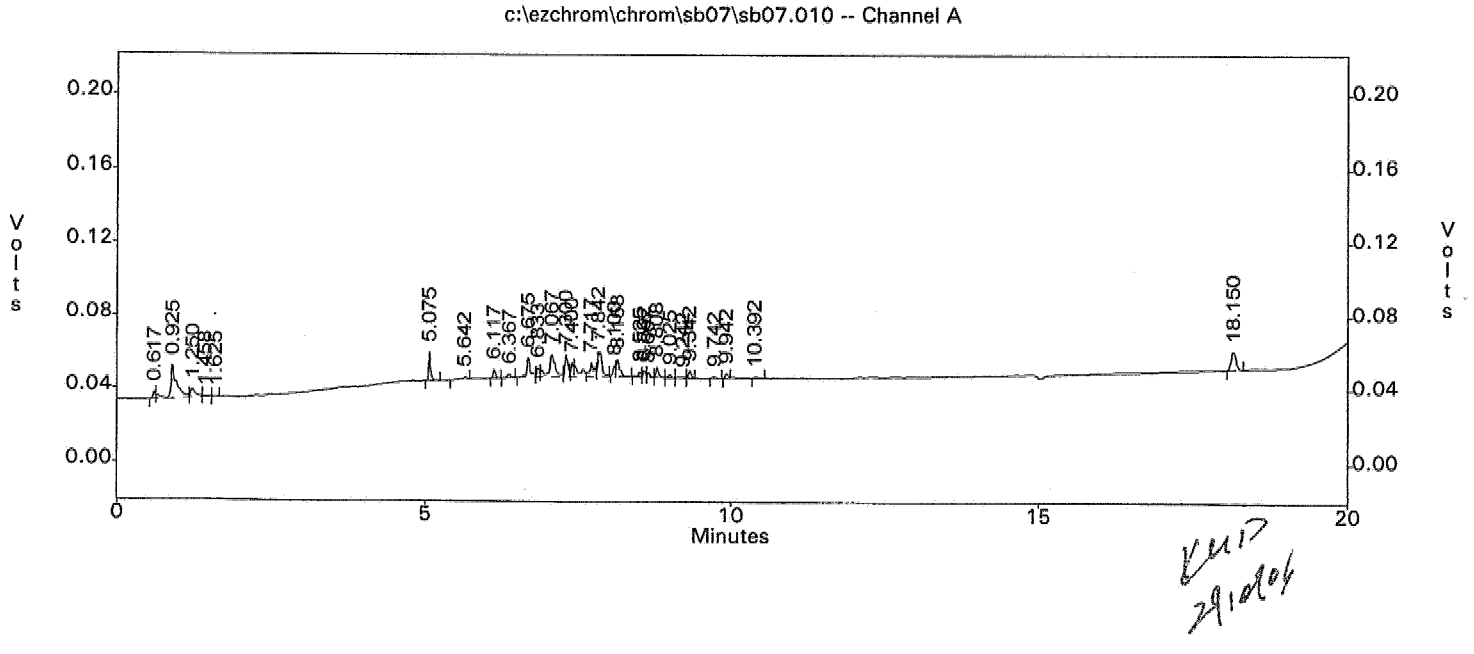
5302

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.010
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 4808B07
Acquired : Feb 08, 2006 20:04:04
Printed : Feb 09, 2006 13:00:59
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.617	10621	0.0	0.0
2		0.925	131672	0.0	0.0
3		1.250	28769	0.0	0.0
4		1.458	6617	0.0	0.0
5		1.625	2496	0.0	0.0
6		5.075	35484	0.0	0.0
8		6.117	13088	0.0	0.0
9		6.367	7446	0.0	0.0
10		6.675	45661	0.0	0.0
12		7.067	91605	0.0	0.0
15		7.717	41382	0.0	0.0
16		7.842	69293	0.0	0.0
17		8.100	16671	0.0	0.0
18		8.158	36581	0.0	0.0
19		8.525	8912	0.0	0.0
20		8.592	9648	0.0	0.0
21		8.667	7317	0.0	0.0
22		8.808	16594	0.0	0.0
23		9.025	5249	0.0	0.0
24		9.242	3655	0.0	0.0
25		9.342	12134	0.0	0.0
26		9.742	2925	0.0	0.0
27		9.942	7388	0.0	0.0
28		10.392	4052	0.0	0.0
29		18.150	54908	0.0	0.0



2/10/06

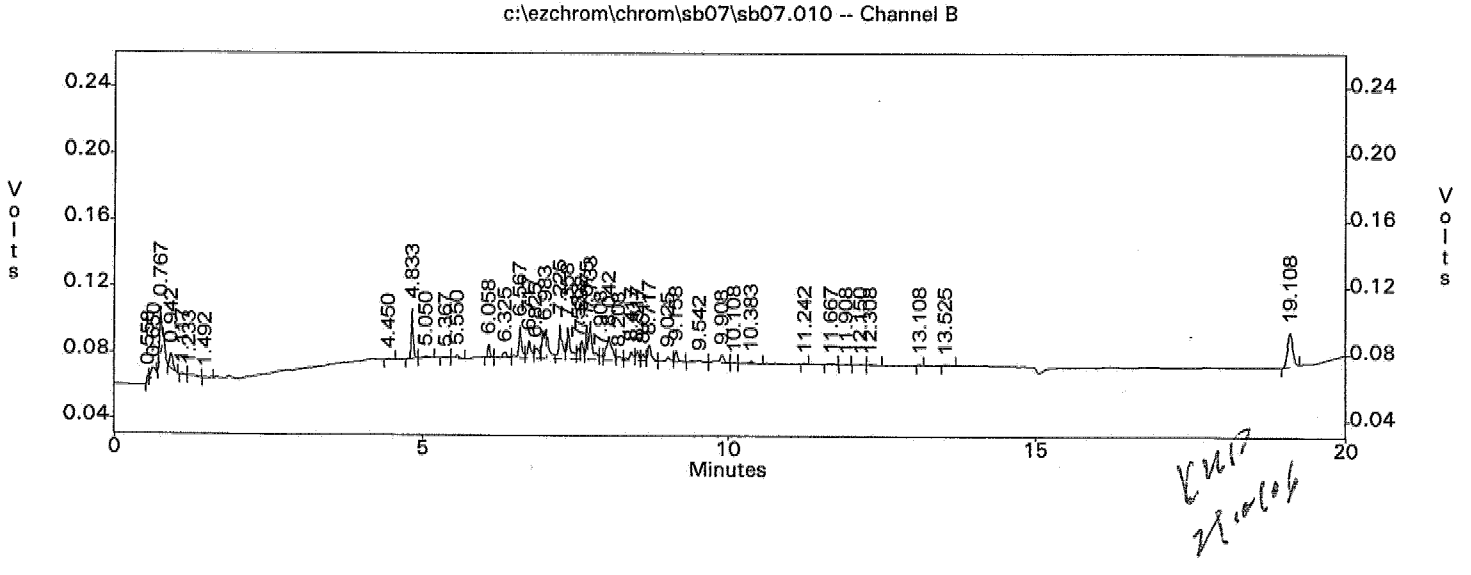
EPA 8081 GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.010
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 4808B07
Acquired : Feb 08, 2006 20:04:04
Printed : Feb 09, 2006 13:00:59
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.558	7881	0.0	0.0
2		0.650	25406	0.0	0.0
3		0.767	64601	0.0	0.0
4		0.942	34255	0.0	0.0
5		1.117	3223	0.0	0.0
6		1.233	6067	0.0	0.0
7		1.492	3404	0.0	0.0
8		4.450	2028	0.0	0.0
9		4.833	66710	0.0	0.0
10		5.050	5176	0.0	0.0
11		5.367	3279	0.0	0.0
12		5.550	6823	0.0	0.0
13		6.058	19249	0.0	0.0
14		6.325	16223	0.0	0.0
15		6.567	67050	0.0	0.0
16		6.717	40873	0.0	0.0
17		6.825	30443	0.0	0.0
18		6.983	71794	0.0	0.0
19		7.225	86136	0.0	0.0
20		7.358	76166	0.0	0.0
21		7.533	20704	0.0	0.0
23		7.675	45274	0.0	0.0
24		7.733	86577	0.0	0.0
25		7.908	8855	0.0	0.0
26		8.042	88392	0.0	0.0
27		8.208	11569	0.0	0.0
29		8.517	19504	0.0	0.0

Continued...



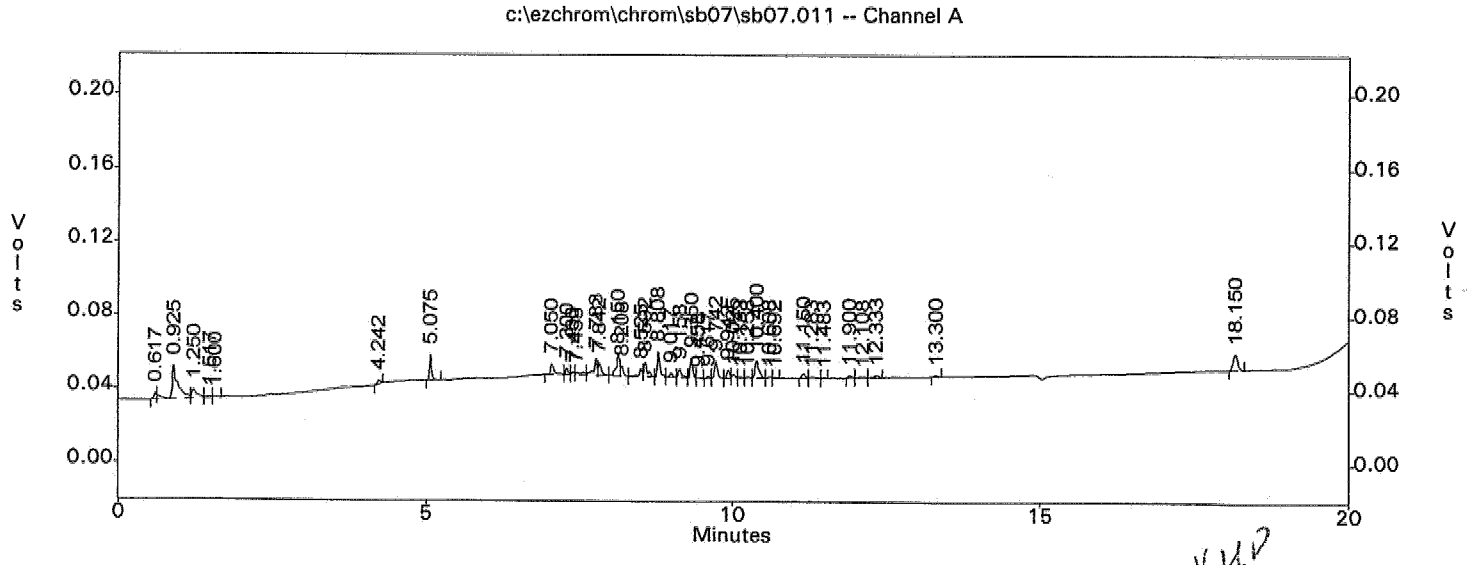
EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.011
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 5408B07
Acquired : Feb 08, 2006 20:31:58
Printed : Feb 09, 2006 13:01:22
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.617	9957	0.0	0.0
2		0.925	127705	0.0	0.0
3		1.250	29156	0.0	0.0
4		1.517	5373	0.0	0.0
5		1.600	2734	0.0	0.0
6		4.242	6706	0.0	0.0
7		5.075	31351	0.0	0.0
8		7.050	25920	0.0	0.0
11		7.458	15154	0.0	0.0
12		7.783	35351	0.0	0.0
13		7.842	26081	0.0	0.0
14		8.150	46589	0.0	0.0
15		8.208	14340	0.0	0.0
16		8.525	14358	0.0	0.0
17		8.592	29820	0.0	0.0
18		8.808	41433	0.0	0.0
19		9.017	8323	0.0	0.0
20		9.158	17523	0.0	0.0
21		9.350	32830	0.0	0.0
22		9.458	1503	0.0	0.0
23		9.617	3427	0.0	0.0
24		9.742	31611	0.0	0.0
25		9.942	14085	0.0	0.0
27		10.133	3891	0.0	0.0
28		10.258	3272	0.0	0.0
29		10.400	41614	0.0	0.0
30		10.608	2797	0.0	0.0
31		10.692	1433	0.0	0.0

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5305

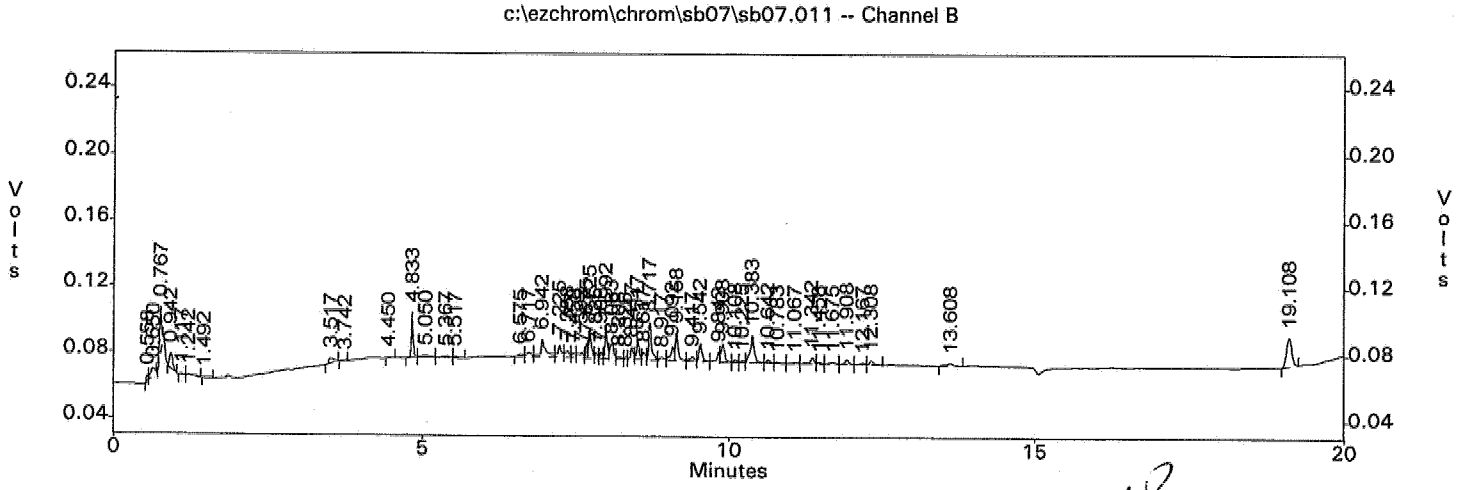
EPA 8081 GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.011
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 5408B07
Acquired : Feb 08, 2006 20:31:58
Printed : Feb 09, 2006 13:01:23
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.558	7555	0.0	0.0
2		0.650	22762	0.0	0.0
3		0.767	63392	0.0	0.0
4		0.942	34067	0.0	0.0
5		1.117	2511	0.0	0.0
6		1.242	6872	0.0	0.0
7		1.492	4283	0.0	0.0
8		3.517	16603	0.0	0.0
9		3.742	1439	0.0	0.0
10		4.450	1856	0.0	0.0
11		4.833	59150	0.0	0.0
12		5.050	8541	0.0	0.0
13		5.367	9423	0.0	0.0
14		5.517	4160	0.0	0.0
15		6.575	9008	0.0	0.0
16		6.717	15747	0.0	0.0
17		6.942	68425	0.0	0.0
18		7.225	31616	0.0	0.0
19		7.358	21600	0.0	0.0
20		7.458	13802	0.0	0.0
22		7.675	20211	0.0	0.0
23		7.725	50877	0.0	0.0
24		7.825	10788	0.0	0.0
25		7.908	12033	0.0	0.0
26		7.992	54453	0.0	0.0
27		8.083	38703	0.0	0.0
28		8.208	7774	0.0	0.0

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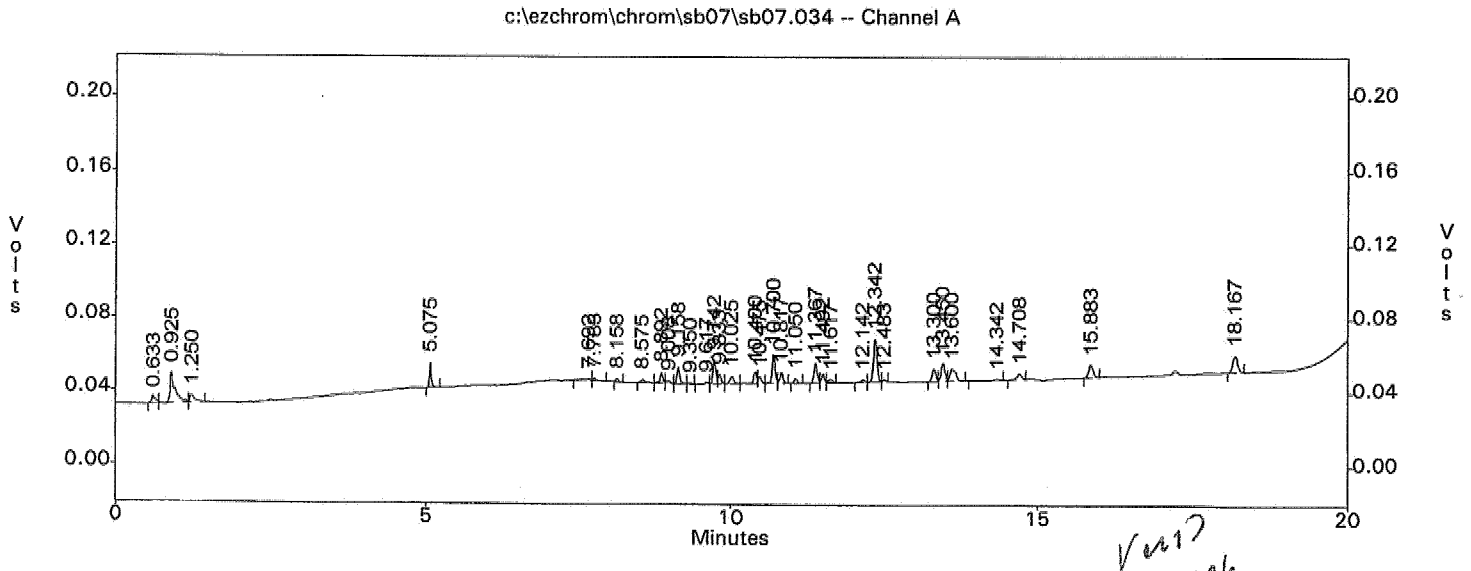
EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.034
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 6208B07
Acquired : Feb 09, 2006 07:11:39
Printed : Feb 09, 2006 13:02:07
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.633	17564	0.0	0.0
2		0.925	95391	0.0	0.0
3		1.250	20516	0.0	0.0
4		5.075	30489	0.0	0.0
5		7.692	11039	0.0	0.0
6		7.783	6313	0.0	0.0
7		8.158	4560	0.0	0.0
8		8.575	8982	0.0	0.0
9		8.892	19682	0.0	0.0
10		9.008	5882	0.0	0.0
11		9.158	28690	0.0	0.0
12		9.350	2410	0.0	0.0
13		9.617	3815	0.0	0.0
14		9.742	42514	0.0	0.0
15		9.833	16837	0.0	0.0
17		10.400	23039	0.0	0.0
18		10.475	13528	0.0	0.0
19		10.700	55251	0.0	0.0
20		10.817	20605	0.0	0.0
21		11.050	7565	0.0	0.0
22		11.367	40699	0.0	0.0
23		11.492	16648	0.0	0.0
24		11.617	9334	0.0	0.0
25		12.142	6582	0.0	0.0
26		12.342	95625	0.0	0.0
28		13.300	30011	0.0	0.0
29		13.450	41770	0.0	0.0
31		14.342	2340	0.0	0.0

Continued...



5307

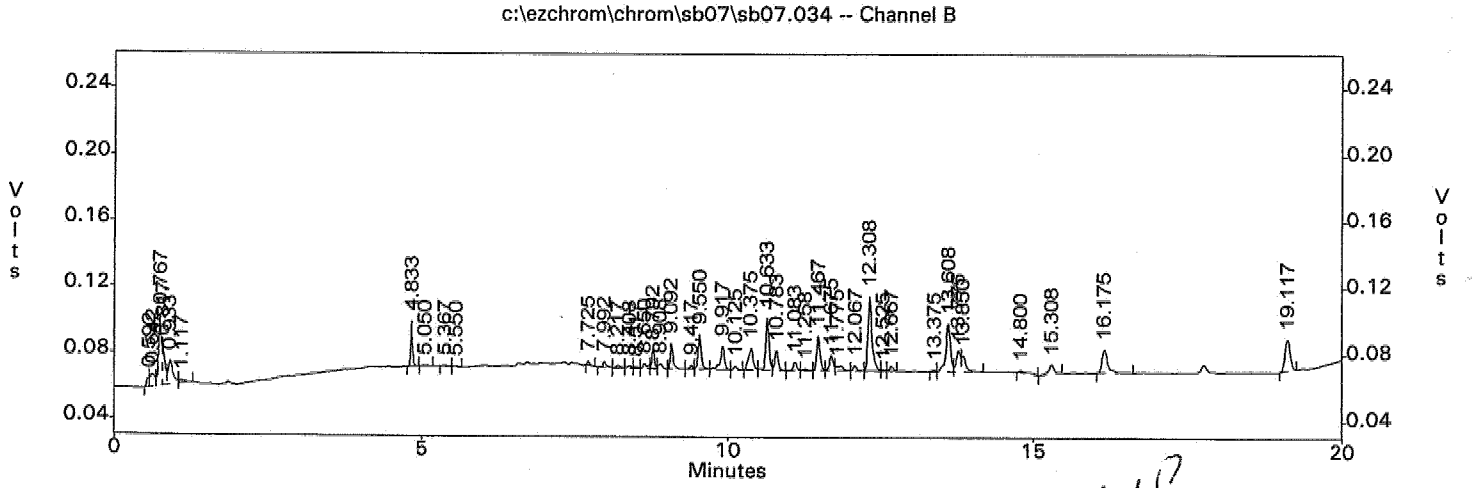
EPA 8081 GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.034
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 6208B07
Acquired : Feb 09, 2006 07:11:39
Printed : Feb 09, 2006 13:02:07
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.592	15449	0.0	0.0
2		0.642	44458	0.0	0.0
3		0.767	142531	0.0	0.0
4		0.817	70259	0.0	0.0
5		0.933	79749	0.0	0.0
6		1.117	13697	0.0	0.0
7		4.833	60792	0.0	0.0
8		5.050	2885	0.0	0.0
9		5.367	2867	0.0	0.0
10		5.550	2370	0.0	0.0
11		7.725	6747	0.0	0.0
12		7.992	12495	0.0	0.0
13		8.217	7967	0.0	0.0
15		8.517	4952	0.0	0.0
16		8.650	15125	0.0	0.0
17		8.792	32304	0.0	0.0
18		8.908	12565	0.0	0.0
19		9.092	50558	0.0	0.0
20		9.417	9085	0.0	0.0
21		9.550	77620	0.0	0.0
22		9.917	69136	0.0	0.0
23		10.125	7693	0.0	0.0
24		10.375	67937	0.0	0.0
25		10.633	119154	0.0	0.0
26		10.783	45551	0.0	0.0
27		11.083	19338	0.0	0.0
28		11.258	5704	0.0	0.0

Continued...



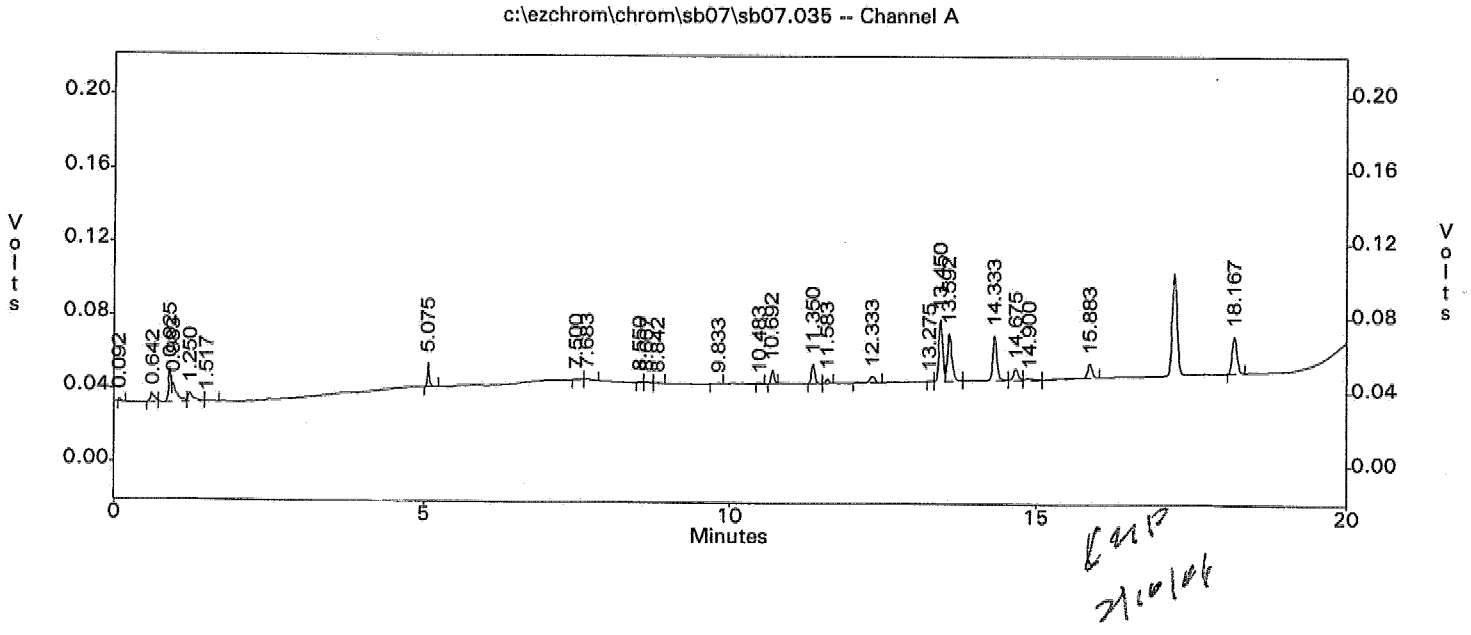
EMH
2/10/06

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.035
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 6808B07
Acquired : Feb 09, 2006 07:39:27
Printed : Feb 09, 2006 13:02:34
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.092	2982	0.0	0.0
2		0.642	22451	0.0	0.0
3		0.925	57023	0.0	0.0
4		0.983	54540	0.0	0.0
5		1.250	30171	0.0	0.0
6		1.517	3526	0.0	0.0
7		5.075	28592	0.0	0.0
8		7.500	5906	0.0	0.0
9		7.683	5212	0.0	0.0
10		8.550	2308	0.0	0.0
11		8.667	2059	0.0	0.0
12		8.842	1688	0.0	0.0
13		9.833	2149	0.0	0.0
14		10.483	1268	0.0	0.0
15		10.692	24153	0.0	0.0
16		11.350	38399	0.0	0.0
17		11.583	8278	0.0	0.0
18		12.333	20024	0.0	0.0
19		13.275	1310	0.0	0.0
20		13.450	143661	0.0	0.0
22		14.333	127394	0.0	0.0
23		14.675	37552	0.0	0.0
24		14.900	12083	0.0	0.0
25		15.883	51117	0.0	0.0
26		18.167	111894	0.0	0.0



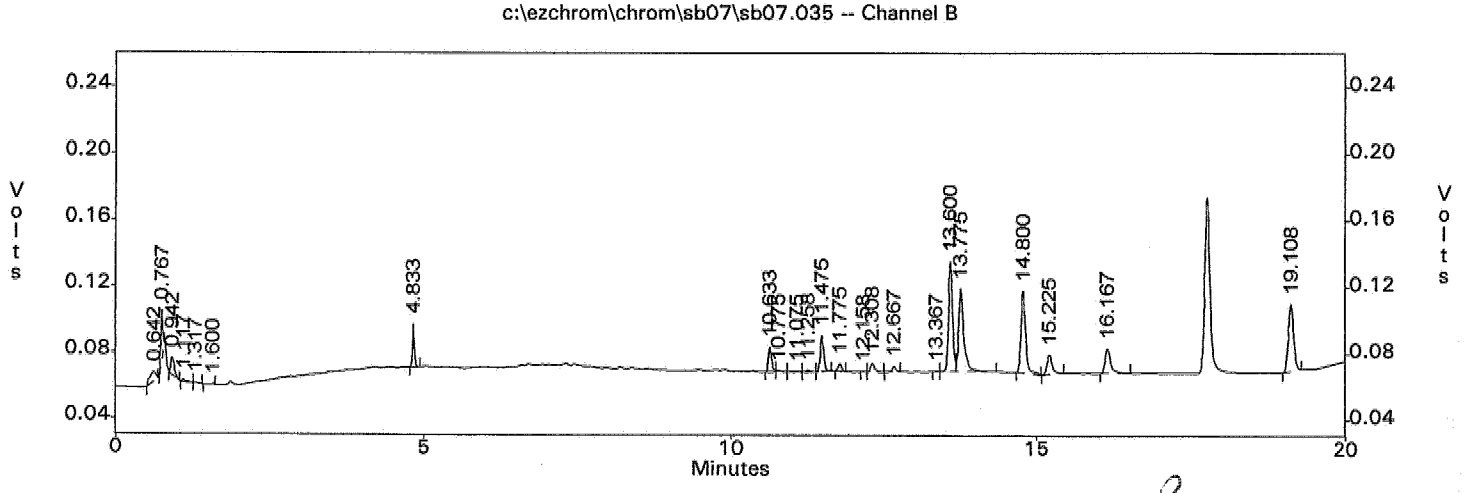
5309

EPA 8081 GC/ECD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\sb07\sb07.035
Method : c:\ezchrom\methods\spcbs001.met
Sample ID : 6808B07
Acquired : Feb 09, 2006 07:39:27
Printed : Feb 09, 2006 13:02:34
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1		0.642	41450	0.0	0.0
2		0.767	67010	0.0	0.0
3		0.942	40481	0.0	0.0
4		1.117	6448	0.0	0.0
5		1.317	3377	0.0	0.0
6		1.600	3141	0.0	0.0
7		4.833	57098	0.0	0.0
8		10.633	53954	0.0	0.0
9		10.775	4494	0.0	0.0
10		11.075	3906	0.0	0.0
11		11.258	6192	0.0	0.0
12		11.475	83594	0.0	0.0
13		11.775	16000	0.0	0.0
14		12.158	910	0.0	0.0
15		12.308	24229	0.0	0.0
16		12.667	14140	0.0	0.0
17		13.367	1977	0.0	0.0
18		13.600	319706	0.0	0.0
19		13.775	305386	0.0	0.0
21		15.225	68280	0.0	0.0
22		16.167	92846	0.0	0.0
23		19.108	246036	0.0	0.0



EMP
2/10/06

5310

SECOND SOURCE VERIFICATION

CONTINUE CALIBRATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07014A 02/08/2006 21:55
Conc Cont LFID & Datetime: SB07033A 02/09/2006 06:43
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB-1016				500.0			466.127	7		15
PCB-1260				500.0			476.898	5		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	5.075	4.971	5.179	25.0	5001.2	121226	24.24	-3		15
DCB	18.167	18.079	18.255	25.0	7878.0	195036	24.76	-1		15

2/10/06

CONTINUE CALIBRATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCTO08 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07014B 02/08/2006 21:55
Conc Cont LFID & Datetime: SB07033B 02/09/2006 06:43
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB-1016				500.0			483.700	3		15
PCB-1260				500.0			500.960	0		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	4.833	4.757	4.909	25.0	9931.1	248115	24.98	-0		15
DCB	19.108	19.058	19.158	25.0	16957.9	424952	25.06	0		15

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

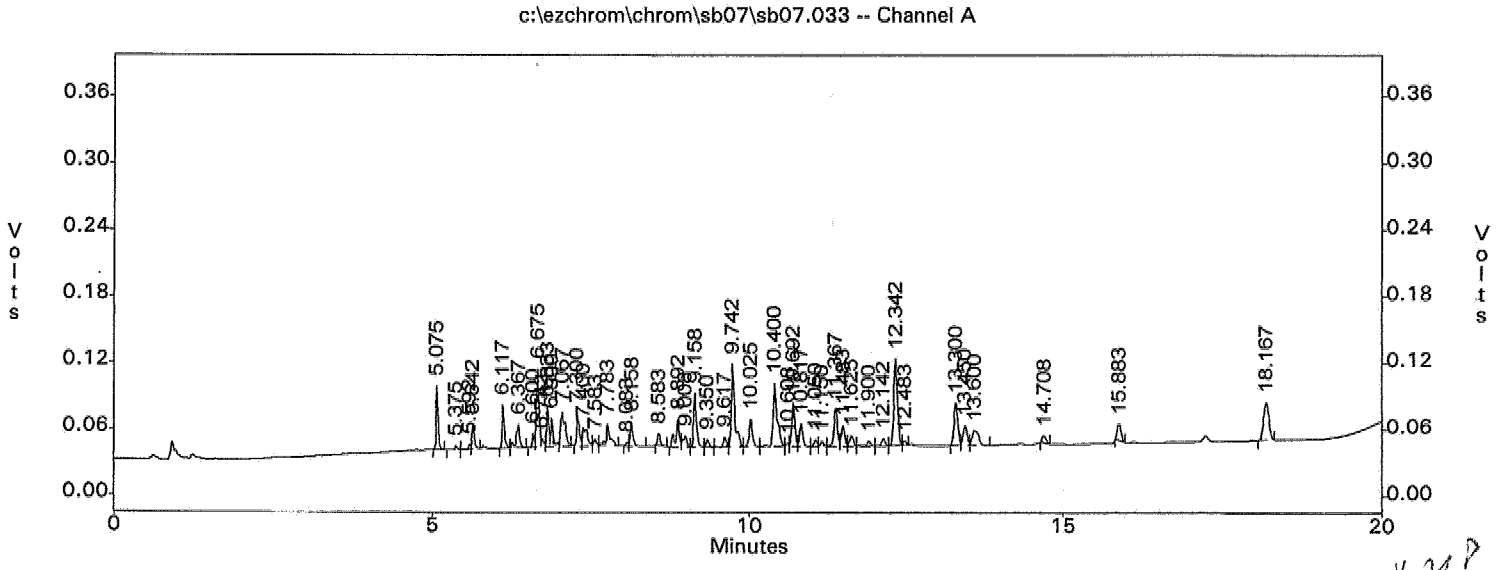
File : c:\ezchrom\chrom\sb07\sb07.033
Method : c:\ezchrom\methods\6008b07.met
Sample ID : I6008B07
Acquired : Feb 09, 2006 06:43:54
Printed : Feb 09, 2006 13:11:26
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	5.075	121226	5001.2	24.2
4	1016-1	5.642	54775	598.5	91.5
5	1016-2	6.117	110675	1141.6	96.9
8	1016-3	6.675	218067	2349.2	92.8
10	1016-4	6.833	90148	980.1	92.0
18	1016-5	8.158	65293	703.2	92.9
22	1260-1	9.158	152149	1570.0	96.9
29	1260-2	10.692	140595	1432.6	98.1
33	1260-3	11.367	134092	1515.7	88.5
38	1260-4	12.342	324722	3386.9	95.9
40	1260-5	13.300	166570	1708.4	97.5
45	DCB	18.167	195036	7878.0	24.8
G4	PCB1221		1395976	0.0	0.0
G5	PCB1232		2703080	0.0	0.0
G6	PCB1242		3067941	0.0	0.0
G7	PCB1248		3067941	0.0	0.0
G8	PCB1254		3493196	0.0	0.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		538958	0.0	466.1
G2	PCB1260		918128	0.0	476.9



5314

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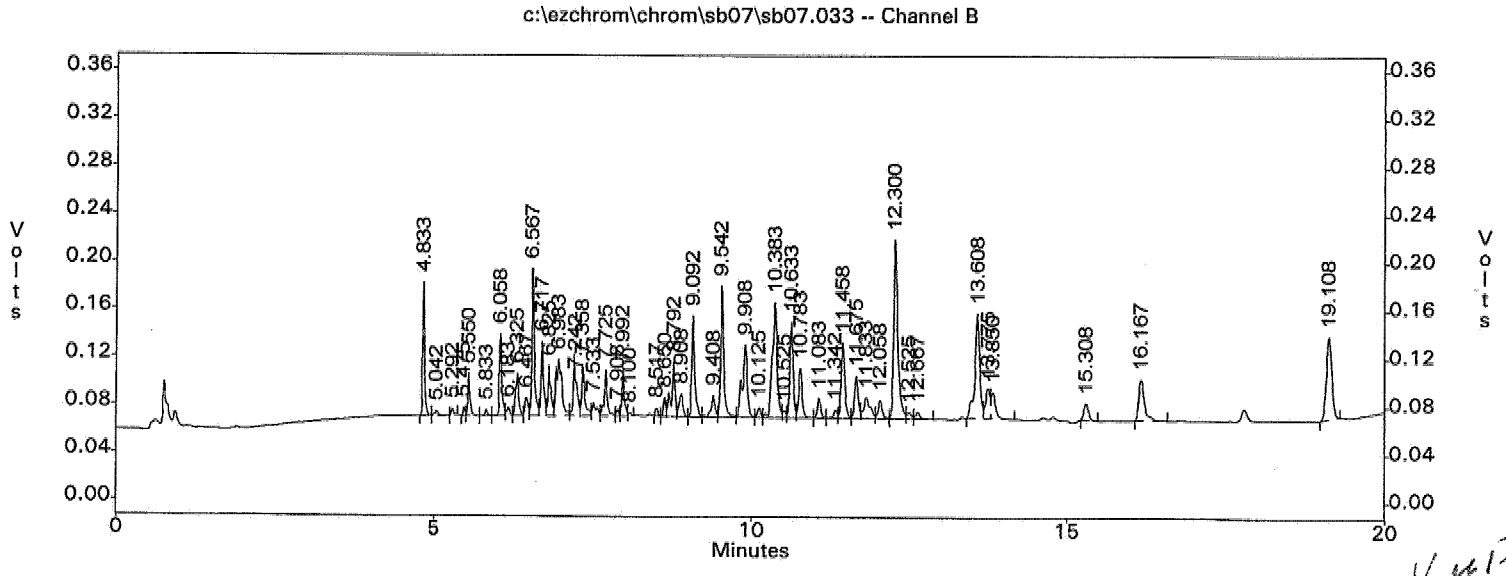
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : I6008B07
Acquired : Feb 09, 2006 06:43:54
Printed : Feb 09, 2006 13:11:26
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.833	248115	9931.1	25.0
5	1016-1	5.550	88986	928.1	95.9
7	1016-2	6.058	194372	1901.0	102.2
11	1016-3	6.567	369201	3771.4	97.9
12	1016-4	6.717	178710	1945.0	91.9
20	1016-5	7.992	106285	1109.5	95.8
26	1260-1	9.092	284087	2893.4	98.2
28	1260-2	9.542	390089	3931.9	99.2
33	1260-3	10.633	300752	2974.8	101.1
37	1260-4	11.458	262785	2580.6	101.8
41	1260-5	12.300	731579	7269.8	100.6
49	DCB	19.108	424952	16957.9	25.1
G4	PCB1221		2062879	0.0	0.0
G5	PCB1232		4499117	0.0	0.0
G6	PCB1242		5985586	0.0	0.0
G7	PCB1248		5985586	0.0	0.0
G8	PCB1254		5391469	0.0	0.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		937554	0.0	483.7
G2	PCB1260		1969292	0.0	501.0



5315

DAILY CALIBRATIONS

CONTINUE CALIBRATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCTO08 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07014A 02/08/2006 21:55
Conc Cont LFID & Datetime: SD10006A 04/10/2006 12:28
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB-1016				500.0			448.958	10		15
PCB-1260				500.0			467.285	7		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	4.792	4.688	4.896	25.0	5001.2	116750	23.34	-7		15
DCB	16.842	16.754	16.930	25.0	7878.0	199221	25.29	1		15

CONTINUE CALIBRATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCTO08 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07014B 02/08/2006 21:55
Conc Cont LFID & Datetime: SD10006B 04/10/2006 12:28
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB-1016				500.0			503.001	1		15
PCB-1260				500.0			547.390	9		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
TCX	4.608	4.532	4.684	25.0	9931.1	246067	24.78	-1		15
DCB	17.933	17.883	17.983	25.0	16957.9	427230	25.19	1		15

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

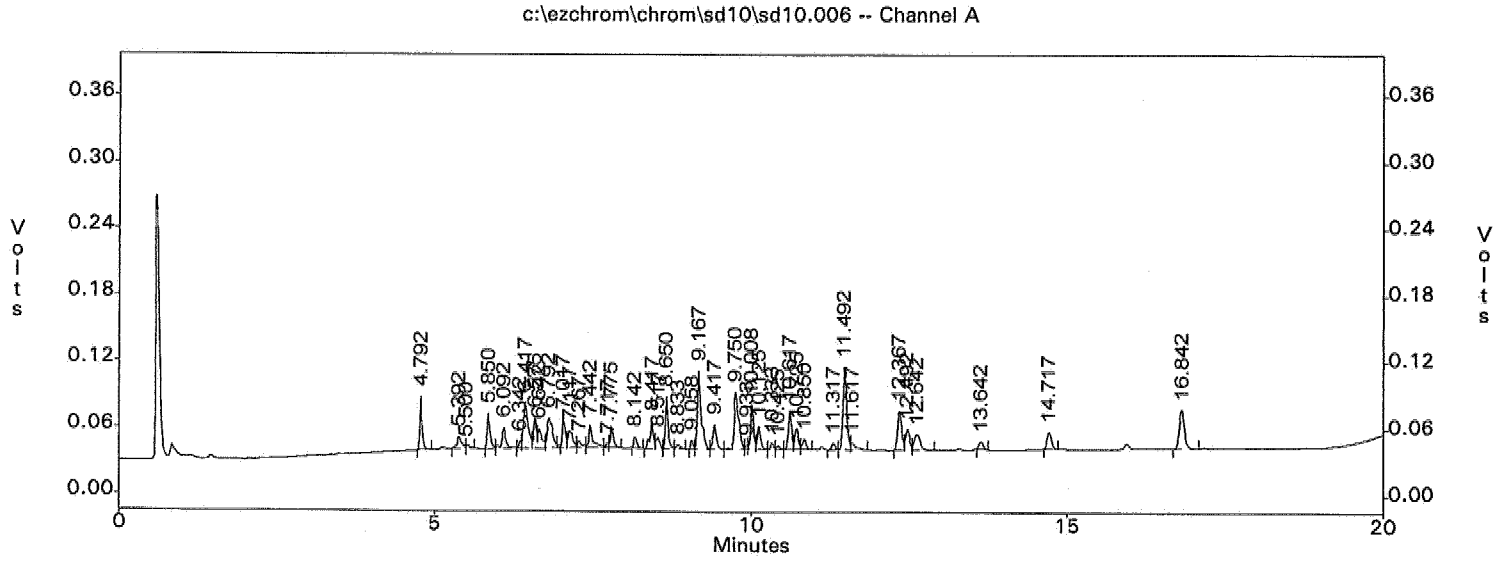
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : C6008B07072
Acquired : Apr 10, 2006 12:28:19
Printed : Apr 10, 2006 13:25:28
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.792	116750	5001.2	23.3
2	1016-1	5.392	49787	598.5	83.2
4	1016-2	5.850	106236	1141.6	93.1
7	1016-3	6.417	211657	2349.2	90.1
8	1016-4	6.575	86584	980.1	88.3
16	1016-5	7.775	66291	703.2	94.3
20	1260-1	8.650	152051	1570.0	96.8
27	1260-2	10.008	141249	1432.6	98.6
31	1260-3	10.617	128331	1515.7	84.7
35	1260-4	11.492	322171	3386.9	95.1
37	1260-5	12.367	157254	1708.4	92.0
42	DCB	16.842	199221	7878.0	25.3
G4	PCB1221		1410528	0.0	0.0
G5	PCB1232		2904647	0.0	0.0
G6	PCB1242		3239603	0.0	0.0
G7	PCB1248		3239603	0.0	0.0
G8	PCB1254		3343848	0.0	0.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		520555	0.0	449.0
G2	PCB1260		901056	0.0	467.3



EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

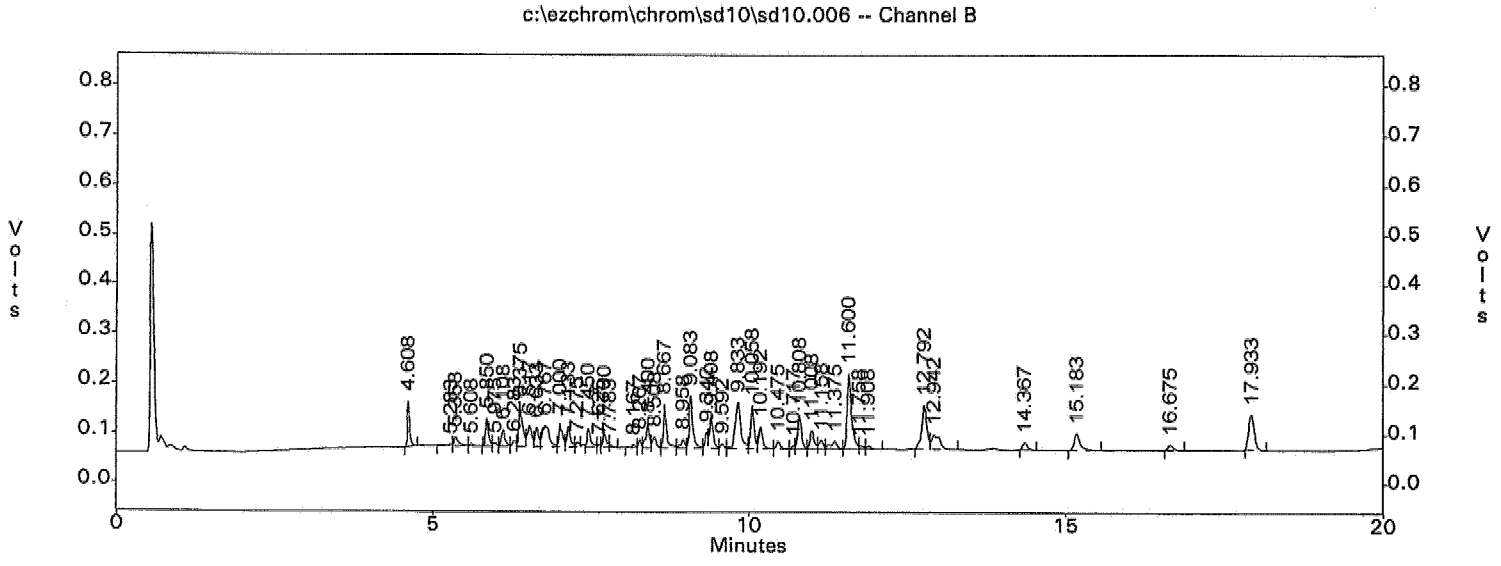
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : C6008B07072
Acquired : Apr 10, 2006 12:28:19
Printed : Apr 10, 2006 13:25:28
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	246067	9931.1	24.8
3	1016-1	5.358	89187	928.1	96.1
5	1016-2	5.850	186733	1901.0	98.2
9	1016-3	6.375	349534	3771.4	92.7
10	1016-4	6.517	210722	1945.0	108.3
18	1016-5	7.700	119444	1109.5	107.7
24	1260-1	8.667	309622	2893.4	107.0
26	1260-2	9.083	423851	3931.9	107.8
31	1260-3	10.058	332963	2974.8	111.9
35	1260-4	10.808	290430	2580.6	112.5
39	1260-5	11.600	785937	7269.8	108.1
47	DCB	17.933	427230	16957.9	25.2
G4	PCB1221		1936783	0.0	0.0
G5	PCB1232		4952473	0.0	0.0
G6	PCB1242		6944527	0.0	0.0
G7	PCB1248		6944527	0.0	0.0
G8	PCB1254		6004287	0.0	0.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		955620	0.0	503.0
G2	PCB1260		2142803	0.0	547.4



CONTINUE CALIBRATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07014A 02/08/2006 21:55
Conc Cont LFID & Datetime: SD10023A 04/10/2006 19:58
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB-1016				500.0			462.723	7		15
PCB-1260				500.0			482.441	4		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	4.792	4.688	4.896	25.0	5001.2	118615	23.72	-5		15
DCB	16.825	16.737	16.913	25.0	7878.0	201786	25.61	2		15

CONTINUE CALIBRATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SB07014B 02/08/2006 21:55
Conc Cont LFID & Datetime: SD10023B 04/10/2006 19:58
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB-1016				500.0			507.139	1		15
PCB-1260				500.0			547.606	10		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
TCX	4.608	4.532	4.684	25.0	9931.1	251011	25.27	1		15
DCB	17.917	17.867	17.967	25.0	16957.9	434393	25.62	2		15

EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

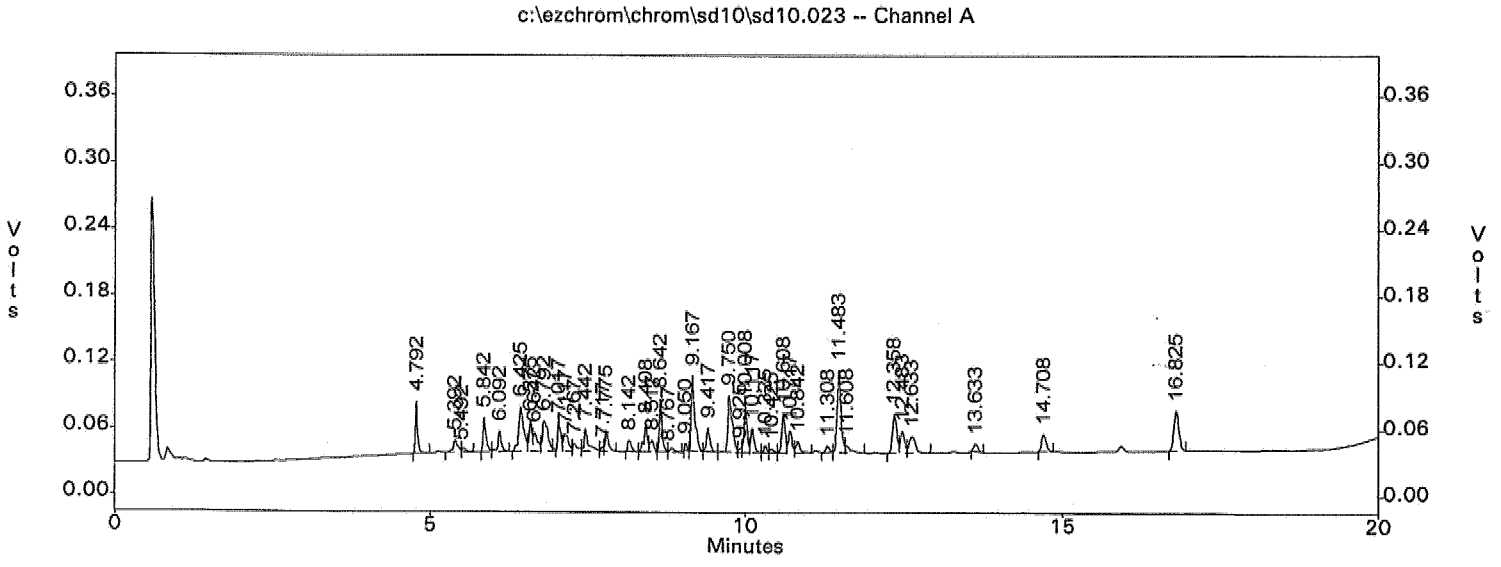
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : C6008B07073
Acquired : Apr 10, 2006 19:58:47
Printed : Apr 11, 2006 08:40:48
User : LARISA

Channel A Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.792	118615	5001.2	23.7
2	1016-1	5.392	51107	598.5	85.4
4	1016-2	5.842	107059	1141.6	93.8
6	1016-3	6.425	228615	2349.2	97.3
7	1016-4	6.575	88669	980.1	90.5
15	1016-5	7.775	67341	703.2	95.8
19	1260-1	8.642	158694	1570.0	101.1
26	1260-2	10.008	147736	1432.6	103.1
30	1260-3	10.608	131128	1515.7	86.5
34	1260-4	11.483	329616	3386.9	97.3
36	1260-5	12.358	161274	1708.4	94.4
41	DCB	16.825	201786	7878.0	25.6
G4	PCB1221		1455623	0.0	0.0
G5	PCB1232		2964360	0.0	0.0
G6	PCB1242		3315080	0.0	0.0
G7	PCB1248		3315080	0.0	0.0
G8	PCB1254		3421984	0.0	0.0

Channel A Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		542791	0.0	462.7
G2	PCB1260		928448	0.0	482.4



EPA 8081 by GC/ECD
EMAX Analytical Laboratories, Inc.

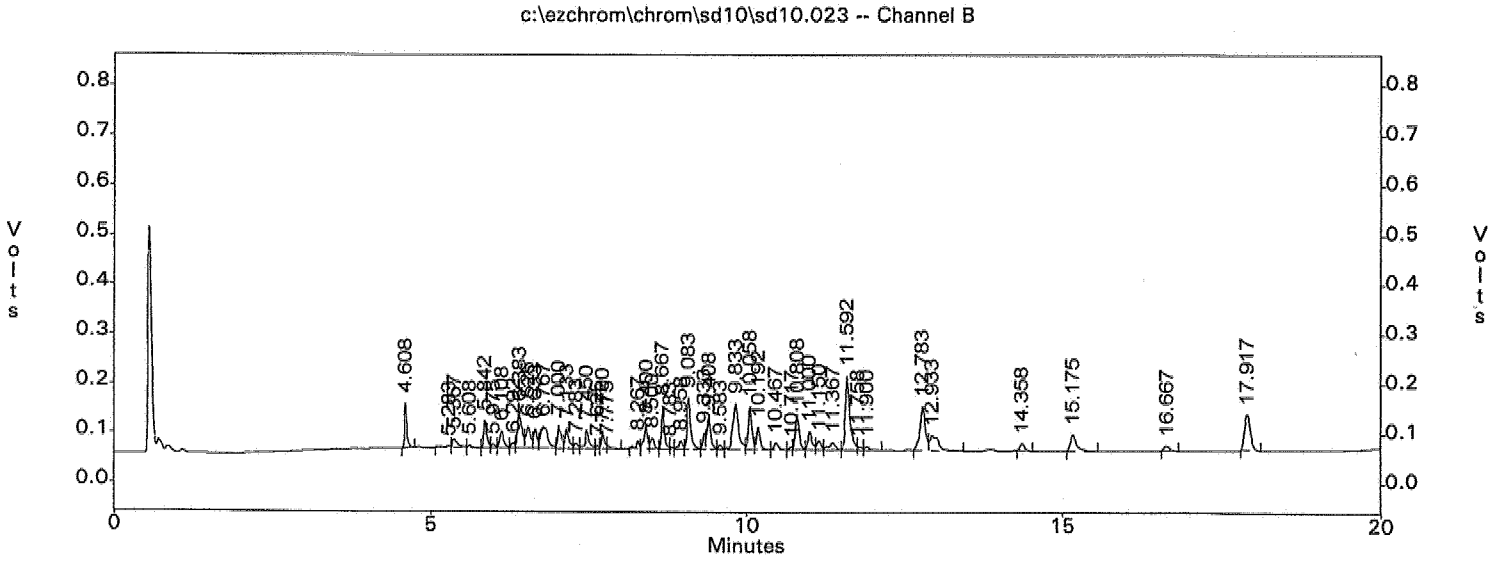
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Method : c:\ezchrom\methods\6008b07.met
Sample ID : C6008B07073
Acquired : Apr 10, 2006 19:58:47
Printed : Apr 11, 2006 08:40:48
User : LARISA

Channel B Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
1	TCX	4.608	251011	9931.1	25.3
3	1016-1	5.367	89484	928.1	96.4
5	1016-2	5.842	189968	1901.0	99.9
9	1016-3	6.383	348655	3771.4	92.4
10	1016-4	6.525	226874	1945.0	116.6
18	1016-5	7.700	112837	1109.5	101.7
23	1260-1	8.667	292087	2893.4	100.9
26	1260-2	9.083	426302	3931.9	108.4
31	1260-3	10.058	338491	2974.8	113.8
35	1260-4	10.808	295303	2580.6	114.4
39	1260-5	11.592	799799	7269.8	110.0
47	DCB	17.917	434393	16957.9	25.6
G4	PCB1221		1999517	0.0	0.0
G5	PCB1232		5196360	0.0	0.0
G6	PCB1242		7065718	0.0	0.0
G7	PCB1248		7065718	0.0	0.0
G8	PCB1254		6093568	0.0	0.0

Channel B Group Results

#	Peak Name	Ret.Time(min)	Area	Ave. CF	ESTD Conc.(ppb)
G1	PCB1016		967818	0.0	507.1
G2	PCB1260		2151982	0.0	547.6



ANALYTICAL LOG

ANALYSIS RUN LOG FOR PESTICIDES/PCBs

SOP ☑ EMAX-8082 Revision No. 1 ☑ EMAX-8081 Revision No. 4 ☐ EMAX-CLP-PEST ☐ EMAX-608

Start Date: 4/10/06 Time: 10:16 Ending Date: 4/11/06 Time: 3:30 Book # A08-014

ANALYTICAL BATCH SCI/CC023

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	SCI0.001	IB 08B07072				
	2	PE				
	3	CCP a				
	4	CCP b				
	5	CTO				
	6	C60				
	7	CCR08A12072				
CPC022W	8	CPC022 WB	1		✓	
	9	WR				
	10	WC				
	11	60C022 WL				
	12	WC				
	13	06C204-01				
	14	06C239-01				
CPD004W	15	CPD004 WB				
	16	WR	✓			
	17	WC	1		✓	
	18	IB 08B07073				
	19	PE				
	20	CCP a				
	21	CCP b				
	22	CTO				
	23	C60				
	24	CCR08A12073				
CAR004W	25	06R020-03	1		✓	
	26	60R005 SB	1	✓		acid cleanup
	27	SL	1	✓		acid cleanup

Instrument No: 08

INITIAL CALIBRATION REFERENCE

ICAL ID	Batch	Date
CP08B07	SB07	2/7/06
TO		
60		
CR08A12	SA12	1/12/06

Standards

Name		Conc. (µg/L)
Hexane	45059	n/a
PEM	SSIC-05-26-1	10-250
mix A	26-2	20-200
mix B	26-3	20-40
TOXA	27-1	500/25
1660	27-2	500/25
Chlordane	SSIB-05-40-1	2000/100

Column: A. RTX CLPEST I B. RTX CLPEST II

Electronic Data Archival

Location	Date
EZC_4_Pesticides	4/10/06

Comments:

Analyzed By: LE

Date Disposed:: 4/10/06 Disposed by: LE

This page is checked during data review.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR PESTICIDES/PCBs

SOP ☑ EMAX-8082 Revision No. 1 ☐ EMAX-8081 Revision No. 4 ☐ EMAX-CLP-PEST ☐ EMAX-608

Start Date: 2/8/06 Time: 15:53 Ending Date: 2/9/06 Time: ~~18~~ 0810 Book # A08-013

ANALYTICAL BATCH SB07&08R54 2/8/06 2/9/06

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	SB07.001	IB08B07001				
	2	TO08B07 1				
	3	2				
	4	3				
	5	4				
	6	5				
	7	21 08B07				
	8	32				
	9	42				
	10	48				
	11	54				
	12	60 08B07 1				
	13	2				
	14	3				
	15	4				
	16	5				
	17	PE08B07001				
	18	CP08B07 1a				
	19	1b				
	20	2a				
	21	2b				
	22	39				
	23	3b				
	24	4a				
	25	4b				
	26	5a				
	27	5b				

Instrument No: 08

INITIAL CALIBRATION REFERENCE

ICAL ID	Batch	Date
CP08B07	SB07	2/7/06
TO		
60		

Standards

Name		Conc. (µg/L)
Hexane	45059	n/a
ICAL 1221	SSIB-05-32-1	2000/100
1232	33-2	
1242	33-3	
1248	34-1	
1254	34-2	
TCXA	35-1	
1660	34-3	
m.A	32-2	80-800
m.B	35-3	80-160
PEM	SSIC-05-26-1	10-250

Column: A. RTX CLPEST I B. RTX CLPEST II

Electronic Data Archival

Location	Date
EZC_4_Pesticides	2/7/06

Comments:

Analyzed By: RB

Date Disposed:: 2/7/06 Disposed by: RB

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS RUN LOG FOR PESTICIDES/PCBs

SOP ☑ EMAX-8082 Revision No. 1 ☐ EMAX-8081 Revision No. 4 ☐ EMAX-CLP-PEST ☐ EMAX-608

Start Date: 2/8/06 Time: 15:53 Ending Date: 2/9/06 Time: 18:10 Book # A08-013

ANALYTICAL BATCH SB07054

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
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	29	6b				
	30	ICP08B07 9				
	31	ICP08B07 b				
	32	IT08B07				
	33	I608B07				
	34	6208B07				
	35	6808B07				
	36	Blank				
	37	4808B07 1				
	38	2				
	39	3				
	40	4				
	41	5				
	42	I48 08B07				
	43	~~08B~~ 06A054-19	1		✓	RE 2/8/06
	44	06A054-19T	5			
	45	19I	20			
	46	06A055-26	1			
	47	26T	5		✓	
	48	26I	50		✓	
	49	06A145-11	1	✓		
	50	11T	20	✓		
	51	14	5	✓		
	52	IB08B07002				
	53	PE	4			RE 2/8/06
	54	CCP	9			
	55	CCP	6			

Instrument No: 08

INITIAL CALIBRATION REFERENCE

ICAL ID	Batch	Date
CP 08B07	SB07	2/7/06
TO		
60		
48		

Standards

Name		Conc. (µg/L)
Hexane	45059	n/a
ICV mix A	SSIB-05-34-1	80-800
mix B	36-2	80-160
TOX A	36-3	2000/100
1660	37-1	
1248	38-2	
ICAL 1248	34-1	
PEM	SSIC-05-26-1	10-280
mix A	26-2	20-200
mix B	26-3	20-40
1262	SSIB-05-34-1	2000/100
1268	39-2	
Column	A. RTX CLPEST I B. RTX CLPEST II	

Electronic Data Archival

Location	Date
EZC_4_Pesticides	

Comments:

Analyzed By: RE

Date Disposed:: Disposed by:

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

EXTRACTION LOG

EXTRACTION LOG FOR PESTICIDES/PCBs

SOP ☒ EMAX-3520 Rev. No.: 2 ☐ EMAX-3540 Rev. No.: 0 ☐ EMAX-3545 Rev. No.: 1 ☐ EMAX-3510 Rev. No.: 1 ☐ EMAX-3550 Rev. No.: 1 ☐ EMAX-3580 Rev. No.: 0 ☐ EMAX-CLP-PEST

Matrix: WATER Starting Date: 3/27/06 Time: 11:30 Ending Date: 3/28/06 Time: 5:30 Book # ECP-026

PREPARATION BATCH * CPC0225

	Sample Prep ID	Lab Sample ID	Sonicator Number	Sample Amount (g/ml)	pH	Extract Volume (ml)	Clean-up [G] [F] [A] [S]	Notes
*01	CPC022-WB		N/A	1000	—	5		
*02		-WL *		1000	—	5		
*03		-WC *		1000	—	5		
*04	60C022-WL		▲	1000	—	5		
*05		-WC	▲	1000	—	5		
*06	06C204-01			1060	7	5		
*07	06C239-0.1		↓	1060	5	5		
*08								
*09		3/28/06		JM				
*10								
*11								
*12								
*13								
*14								
*15								
*16								
*17								
*18								
*19								
*20								
*21								
*22								
*23								
*24								
*25								
*26								
*27								
*28								
*29								
*30								

Standards	ID	Amount Added (ml)
Surrogate	SPIC-05-27-3	0.5
LCS/MS (PEST), LCS (PCB)	SPIC-05-28-1, SPIC-05-28-2	1.25, 0.25

Reagent	Lot# / ID
CH_2Cl_2	453K2
Hexane	45059
Na_2SO_4	45045
H_2SO_4	—
NaOH	—
Silica Sand	

TUNING

Sonicator #	Reading
	N/A

Concentrator Water Bath Temp.(oC)

1	35	35
2	35	35
3		
4		
5	60	60

Comments: Test thermometer = T_1

Prepared By: JM Checked By: ML ML 3/28/06

Witnessed By: JM Received By: ML

Standard Added By: ML Disposed By:

Extract Location: SE02-8 Disposal Date:

This page is checked during data review.

Clean-up Legend :[G]=GPC [A]=Acid [F]=Florisil [S]=Sulfur

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 3520C/8141A
ORGANOPHOSPHORUS COMPOUNDS BY GC

SDG#: 06C204

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C204

METHOD 3520C/8141A
ORGANOPHOSPHOROUS COMPOUNDS BY GC

One (1) water sample was received on 03/23/06 for Organophosphorous compounds analysis by Method 3520C/8141A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analytical holding time was met.

2. Instrument Performance and Calibration

Target analytes were grouped into mixtures A and B and calibrated separately. Initial calibration was done on both nitrogenous phosphorus detector (NPD, Channel A) and flame photometric detector (FPD, Channel B). All RSDs were within 20%. Continuing calibration was carried out at 12-hour interval and only FPD was evaluated for quantitation. Mean recoveries were within 15%D.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

All surrogate recoveries were within QC limit.

5. Lab Control Sample/Lab Control Sample Duplicate

All target analytes were spiked in two mixtures and recoveries were evaluated. Recoveries in LCS met QC criteria, but several analytes in LCSD and RPD were above QC.

6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was extracted and analyzed in this SDG.

7. Sample Analysis

Sample was analyzed according to the prescribed QC procedures. All criteria were met with the aforementioned exception.

LAB CHRONICLE
ORGANOPHOSPHOROUS COMPOUNDS BY GC

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX

SDG NO. : 06C204
Instrument ID : GCT012

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	NPC005WB	1	NA	03/31/0617:43	03/27/0611:00	ZC31004B	ZC31002B	NPC005W	Method Blank
LCS1W	NPC005WL	1	NA	03/31/0618:23	03/27/0611:00	ZC31005B	ZC31002B	NPC005W	Lab Control Sample (LCS)
LCD1W	NPC005WC	1	NA	03/31/0619:02	03/27/0611:00	ZC31006B	ZC31002B	NPC005W	LCS Duplicate
LCS2W	NPC006WL	1	NA	03/31/0619:41	03/27/0611:00	ZC31007B	ZC31002B	NPC005W	Lab Control Sample (LCS)
LCD2W	NPC006WC	1	NA	03/31/0620:21	03/27/0611:00	ZC31008B	ZC31002B	NPC005W	LCS Duplicate
M-120	C204-01	.94	NA	03/31/0621:00	03/27/0611:00	ZC31009B	ZC31002B	NPC005W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

3520C/8141A
ORGANOPHOSPHOROUS COMPOUNDS BY GC

Client : ENSR	Date Collected: 03/22/06
Project : UPGRADIENT INVESTIGATION, TRONOX	Date Received: 03/23/06
Batch No. : 06C204	Date Extracted: 03/27/06 11:00
Sample ID: M-120	Date Analyzed: 03/31/06 21:00
Lab Samp ID: C204-01	Dilution Factor: .94
Lab File ID: ZC31009B	Matrix : WATER
Ext Btch ID: NPC005W	% Moisture : NA
Calib. Ref.: ZC31002B	Instrument ID : GCT012

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
DICHLORVOS	ND	.94	.47
MEVINPHOS	ND	.94	.47
DEMETON-O	ND	.94	.47
DEMETON-S	ND	.94	.47
ETHOPROP	ND	.94	.47
PHORATE	ND	.94	.47
NALED	ND	.94	.47
DIAZINON	ND	.94	.47
DISULFOTON	ND	.94	.47
RONNEL	ND	.94	.47
CHLORPYRIFOS	ND	.94	.47
FENTHION	ND	.94	.47
TRICHLORONATE	ND	.94	.47
METHYL PARATHION	ND	.94	.47
TOKUTHION	ND	.94	.47
STIROPHOS	ND	.94	.47
BOLSTAR	ND	.94	.47
FENSULFOTHION	ND	.94	.47
AZINPHOS-METHYL	ND	.94	.47
COUMAPHOS	ND	.94	.47
FAMPHUR	ND	.94	.47
DIMETHOATE	ND	.94	.47
MALATHION	ND	.94	.47
MERPHOS	ND	.94	.47
SULFOTEPP	ND	.94	.47
THIONAZIN	ND	1.9	.47
EPN	ND	.94	.47
PARATHION ETHYL	ND	.94	.47

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIBUTYL PHOSPHATE	77	30-130
TRIPHENYL PHOSPHATE	99	50-130

EPA 8141 by NPD/FPD
EMAX Analytical Laboratories, Inc.

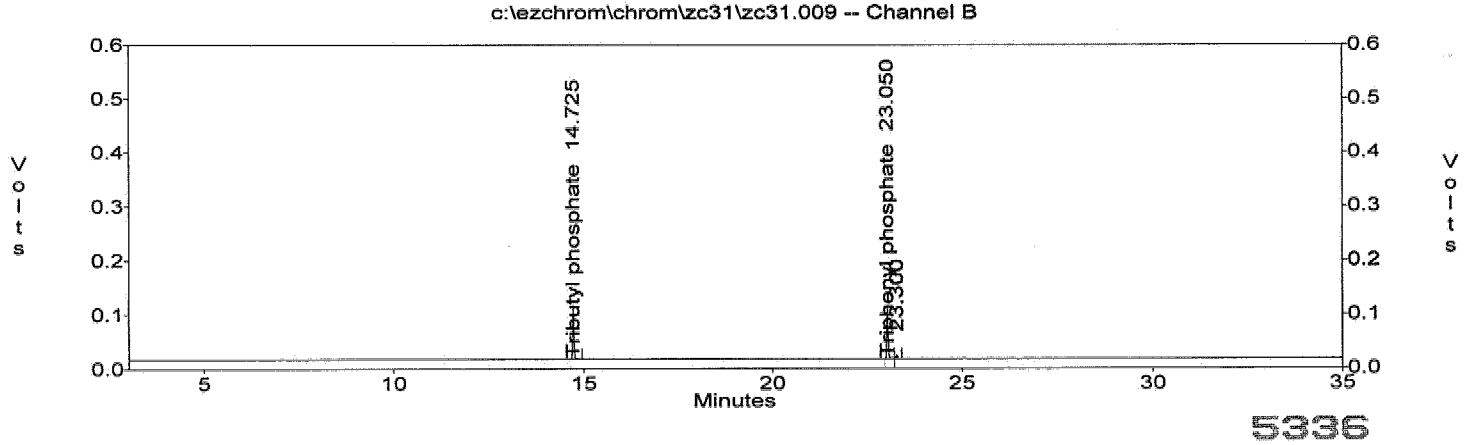
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Sample ID : 06C204-01
Acquired : Mar 31, 2006 21:00:27
Printed : Apr 05, 2006 13:29:47
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.858	0.0	0.0	0.000
Mevinphos	12.642	0.0	0.0	0.000
O-demeton	13.200	0.0	0.0	0.000
Thionazin	13.483	0.0	0.0	0.000
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.500	0.0	0.0	0.000
Sulfotepp	14.617	0.0	0.0	0.000
Tributyl phosphate	14.725	224616.0	194078.1	1.157
Diazinon	15.250	0.0	0.0	0.000
Disulfoton	15.683	0.0	0.0	0.000
S-demeton	15.710	0.0	0.0	0.000
Dimethoate	16.808	0.0	0.0	0.000
Ronnel	17.133	0.0	0.0	0.000
Merphos-unoxi	17.300	0.0	0.0	0.000
Chlorpyrifos	17.850	0.0	0.0	0.000
Fenthion	18.050	0.0	0.0	0.000
Trichloronate	18.100	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.942	0.0	0.0	0.000
Tokuthion	19.708	0.0	0.0	0.000
Parathion (ethyl)	19.817	0.0	0.0	0.000
Merphos-oxone	19.983	0.0	0.0	0.000
Stirophos	20.575	0.0	0.0	0.000
Bolstar	21.392	0.0	0.0	0.000
Triphenyl phosphate	23.050	229792.0	154307.8	1.489
Fensulfothion	23.608	0.0	0.0	0.000
Famphur	24.525	0.0	0.0	0.000
EPN	24.725	0.0	0.0	0.000
M-azinphos	25.175	0.0	0.0	0.000
Coumaphos	28.050	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



QC SUMMARIES

3520C/8141A
ORGANOPHOSPHOROUS COMPOUNDS BY GC

Client	: ENSR	Date Collected:	NA
Project	: UPGRADIENT INVESTIGATION, TRONOX	Date Received:	03/27/06
Batch No.	: 06C204	Date Extracted:	03/27/06 11:00
Sample ID:	MBLK1W	Date Analyzed:	03/31/06 17:43
Lab Samp ID:	NPC005WB	Dilution Factor:	1
Lab File ID:	ZC31004B	Matrix :	WATER
Ext Btch ID:	NPC005W	% Moisture :	NA
Calib. Ref.:	ZC31002B	Instrument ID :	GCT012

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
DICHLORVOS	ND	1	.5
MEVINPHOS	ND	1	.5
DEMETON-O	ND	1	.5
DEMETON-S	ND	1	.5
ETHOPROP	ND	1	.5
PHORATE	ND	1	.5
NALED	ND	1	.5
DIAZINON	ND	1	.5
DISULFOTON	ND	1	.5
RONNEL	ND	1	.5
CHLORPYRIFOS	ND	1	.5
FENTHION	ND	1	.5
TRICHLORONATE	ND	1	.5
METHYL PARATHION	ND	1	.5
TOKUTHION	ND	1	.5
STIROPHOS	ND	1	.5
BOLSTAR	ND	1	.5
FENSULFOTHION	ND	1	.5
AZINPHOS-METHYL	ND	1	.5
COUMAPHOS	ND	1	.5
FAMPHUR	ND	1	.5
DIMETHOATE	ND	1	.5
MALATHION	ND	1	.5
MERPHOS	ND	1	.5
SULFOTEPP	ND	1	.5
THIONAZIN	ND	2	.5
EPN	ND	1	.5
PARATHION ETHYL	ND	1	.5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TRIBUTYL PHOSPHATE	100	30-130
TRIPHENYL PHOSPHATE	126	50-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: EPA 3520C/8141A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	NPC005WB	NPC005WL	NPC005WC		
LAB FILE ID:	ZC31004B	ZC31005B	ZC31006B		
DATE EXTRACTED:	03/27/0611:00	03/27/0611:00	03/27/0611:00	DATE COLLECTED:	NA
DATE ANALYZED:	03/31/0617:43	03/31/0618:23	03/31/0619:02	DATE RECEIVED:	03/27/06
PREP. BATCH:	NPC005W	NPC005W	NPC005W		
CALIB. REF:	ZC31002B	ZC31002B	ZC31002B		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Dichlorvos	ND	1.5	1	67	1.5	1.51	101	41*	20-150	30
Mevinphos	ND	1.5	1.21	80	1.5	1.72	115	35*	10-160	30
Demeton-O	ND	1.5	.332J	22	1.5	.457J	30	31*	10-130	30
Demeton-S	ND	1.5	.46J	31	1.5	.845J	56	57*	10-130	30
Ethoprop	ND	1.5	1.48	99	1.5	2.04	136*	32*	40-130	30
Phorate	ND	1.5	.87J	58	1.5	1.2	80	32*	10-130	30
Naled	ND	1.5	.78J	52	1.5	1.02	68	27	30-160	30
Diazinon	ND	1.5	1.53	102	1.5	1.96	131*	25	40-130	30
Disulfoton	ND	1.5	.526J	35	1.5	1.01	67	63*	10-130	30
Ronnel	ND	1.5	1.32	88	1.5	1.83	122	33*	30-140	30
Chlorpyrifos	ND	1.5	1.24	83	1.5	1.81	121	37*	40-140	30
Fenthion	ND	1.5	1.18	78	1.5	1.78	119	41*	20-130	30
Trichloronate	ND	1.5	.823J	55	1.5	1.2	80	38*	40-130	30
Methyl Parathion	ND	1.5	1.37	92	1.5	1.86	124	30*	40-140	30
Tokuthion	ND	1.5	1.42	95	1.5	1.99	133*	33*	40-130	30
Stirophos	ND	1.5	1.93	129	1.5	2.26	151	16	20-160	30
Bolstar	ND	1.5	1.33	89	1.5	1.97	132*	39*	20-130	30
Fensulfothion	ND	1.5	.297J	20	1.5	.259J	17	16	10-140	30
Azinphos-methyl	ND	1.5	2.01	134	1.5	2.33	156	15	20-160	30
Coumaphos	ND	1.5	1.98	132	1.5	2.27	151*	14	50-140	30
Merphos	ND	1.5	1.43	95	1.5	1.87	125	27	30-160	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Tributyl Phosphate	1.5	1.3	87	1.5	1.55	104	30-130
Triphenyl Phosphate	1.5	1.73	115	1.5	1.96	131*	50-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: EPA 3520C/8141A

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: NPC005WB NPC006WL NPC006WC
LAB FILE ID: ZC31004B ZC31007B ZC31008B
DATE EXTRACTED: 03/27/0611:00 03/27/0611:00 03/27/0611:00 DATE COLLECTED: NA
DATE ANALYZED: 03/31/0617:43 03/31/0619:41 03/31/0620:21 DATE RECEIVED: 03/27/06
PREP. BATCH: NPC005W NPC005W NPC005W
CALIB. REF: ZC31002B ZC31002B ZC31002B

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Famphur	ND	1.5	1.65	110	1.5	1.58	105	5	50-140	30
Dimethoate	ND	1.5	1.31	87	1.5	1.28	86	2	10-140	30
Malathion	ND	1.5	1.71	114	1.5	1.46	97	16	60-140	30
Sulfotepp	ND	1.5	1.24	83	1.5	.845J	56	38*	50-130	30
Thionazin	ND	1.5	1.26J	84	1.5	.911J	61	32*	50-150	30
EPN	ND	1.5	1.29	86	1.5	1.27	85	1	30-150	30
Parathion Ethyl	ND	1.5	1.43	95	1.5	1.07	72	28	50-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Tributyl Phosphate	1.5	1.67	111	1.5	1.42	95	30-130
Triphenyl Phosphate	1.5	1.91	127	1.5	1.84	122	50-130

QC DATA

EPA 8141 by NPD/FPD
EMAX Analytical Laboratories, Inc.

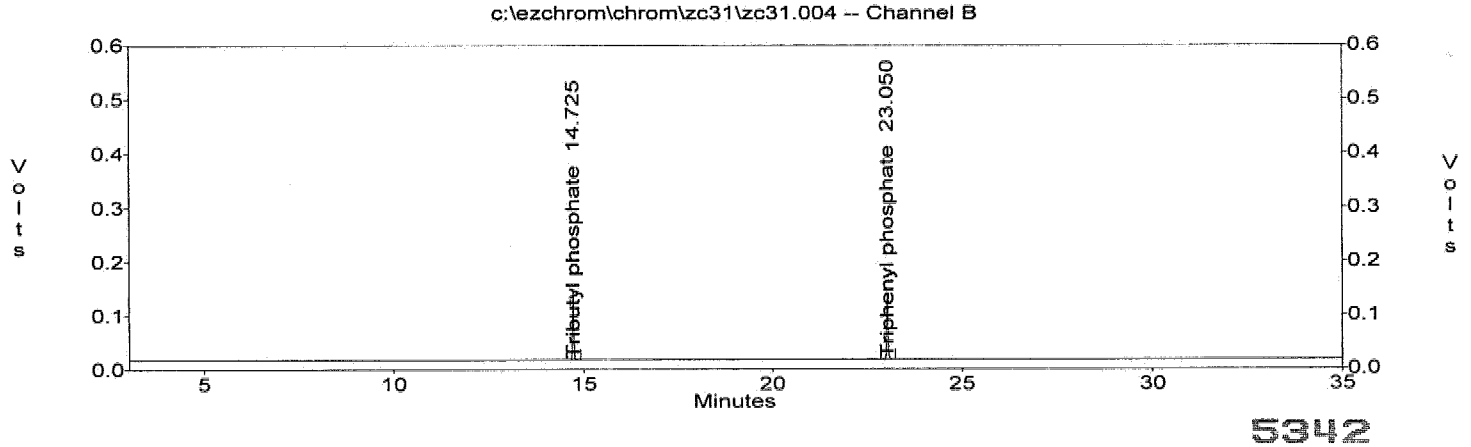
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Acquired : Mar 31, 2006 17:43:44
Printed : Apr 05, 2006 13:19:47
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.858	0.0	0.0	0.000
Mevinphos	12.642	0.0	0.0	0.000
O-demeton	13.200	0.0	0.0	0.000
Thionazin	13.483	0.0	0.0	0.000
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.500	0.0	0.0	0.000
Sulfotepp	14.617	0.0	0.0	0.000
Tributyl phosphate	14.725	292461.0	194078.1	1.507
Diazinon	15.250	0.0	0.0	0.000
Disulfoton	15.692	0.0	0.0	0.000
S-demeton	15.710	0.0	0.0	0.000
Dimethoate	16.808	0.0	0.0	0.000
Ronnel	17.133	0.0	0.0	0.000
Merphos-unoxi	17.300	0.0	0.0	0.000
Chlorpyrifos	17.850	0.0	0.0	0.000
Fenthion	18.050	0.0	0.0	0.000
Trichloronate	18.100	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.942	0.0	0.0	0.000
Tokuthion	19.708	0.0	0.0	0.000
Parathion (ethyl)	19.817	0.0	0.0	0.000
Merphos-oxone	19.983	0.0	0.0	0.000
Stirophos	20.575	0.0	0.0	0.000
Bolstar	21.392	0.0	0.0	0.000
Triphenyl phosphate	23.050	292293.0	154307.8	1.894
Fensulfothion	23.608	0.0	0.0	0.000
Famphur	24.525	0.0	0.0	0.000
EPN	24.725	0.0	0.0	0.000
M-azinphos	25.175	0.0	0.0	0.000
Coumaphos	28.050	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



EPA 8141 by NPD/FPD
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\zc31\zc31.005
Method : c:\ezchrom\methods\np12b01.met
Sample ID : NPC005WL
Acquired : Mar 31, 2006 18:23:05
Printed : Apr 05, 2006 13:23:14
User : RENEE

Channel B Results

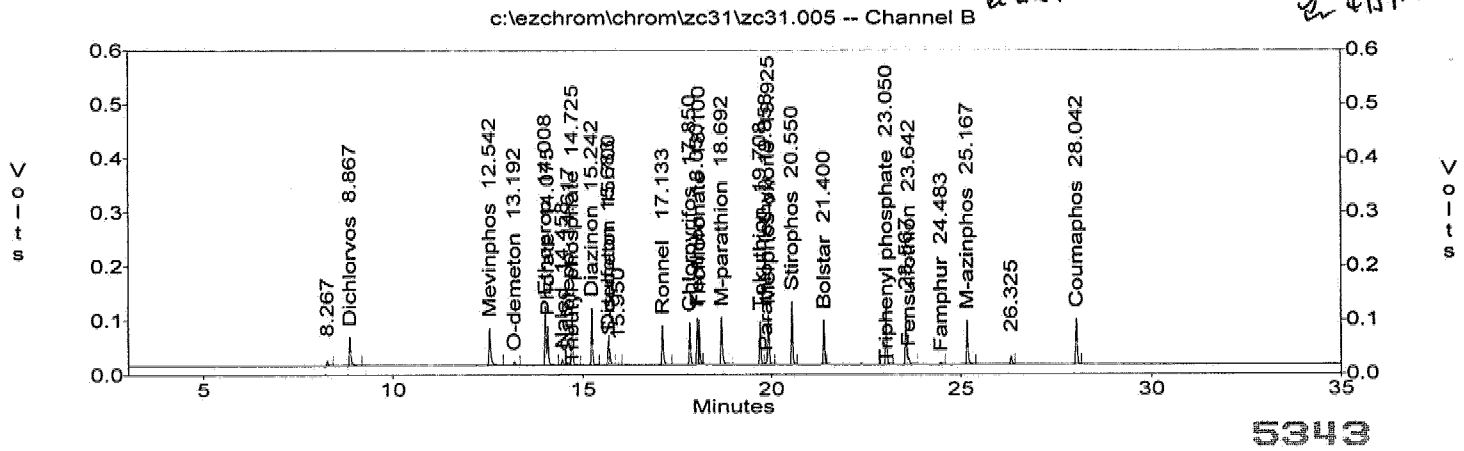
Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.867	161100.0	160617.2	1.003
Mevinphos	12.542	215149.0	178377.9	1.206
O-demeton	13.192	18936.0	57025.0	0.332
Thionazin	13.483	0.0	0.0	0.000
Ethoprop	14.008	247865.0	167093.0	1.483
Phorate	14.075	178825.0	205652.5	0.870
Naled	14.458	26027.0	42400.0	0.780
Sulfotepp	14.617	10570.0	316517.3	0.033
Tributyl phosphate	14.725	252936.0	194078.1	1.303
Diazinon	15.242	244442.0	159967.8	1.528
Disulfoton	15.683	82848.0	157453.1	0.526
S-demeton	15.700	64437.0	140004.3	0.460
Dimethoate	16.808	0.0	0.0	0.000
Ronnel	17.133	198712.0	151012.7	1.316
Merphos-unoxi	17.300	0.0	0.0	0.000
Chlorpyrifos	17.850	182099.0	146679.0	1.241
Fenthion	18.050	182601.0	155172.8	1.177
Trichloronate	18.100	142942.0	173711.5	0.823
M-parathion	18.692	246182.0	179310.6	1.373
Malathion	18.942	0.0	0.0	0.000
Tokuthion	19.708	193961.0	136317.0	1.423
Parathion (ethyl)	19.858	12011.0	174435.4	0.069
Merphos-oxone	19.925	222091.0	170536.1	1.302
Stirophos	20.550	270197.0	139749.8	1.933
Bolstar	21.400	191827.0	144051.0	1.332
Triphenyl phosphate	23.050	266538.0	154307.8	1.727
Fensulfothion	23.642	42108.0	141661.6	0.297
Famphur	24.483	10799.0	145387.1	0.074
EPN	24.725	0.0	0.0	0.000
M-azinphos	25.167	222342.0	110882.9	2.005
Coumaphos	28.042	234140.0	118430.5	1.977

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		222091.0	154913.2 ~~0.0~~	~~1.302~~ 1.434

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2nd 4/5/06



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EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\zc31\zc31.006
Method : c:\ezchrom\methods\np12b01.met
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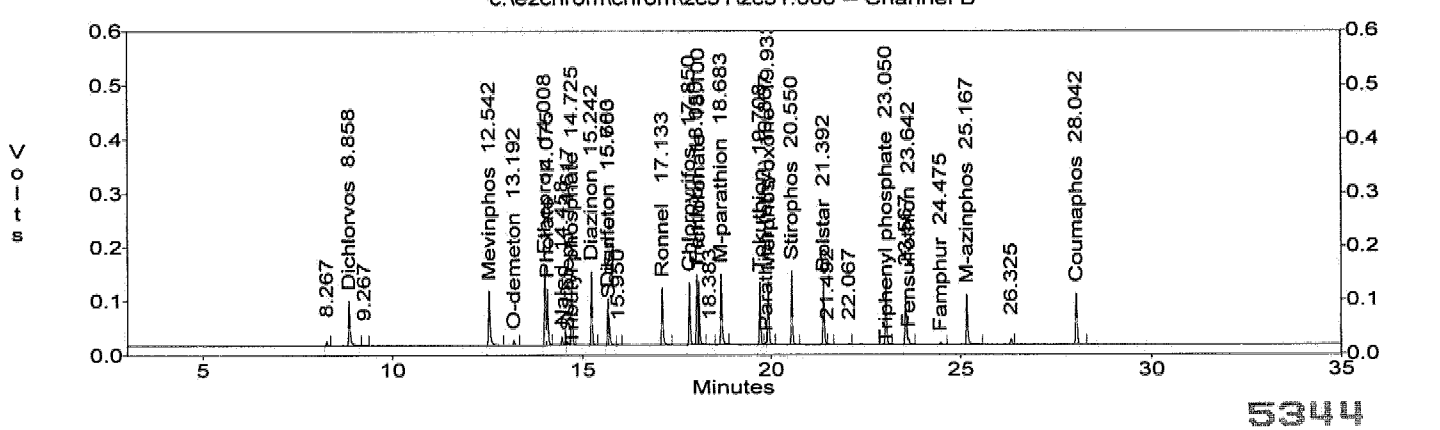
Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.858	243132.0	160617.2	1.514
Mevinphos	12.542	307260.0	178377.9	1.723
O-demeton	13.192	26059.0	57025.0	0.457
Thionazin	13.483	0.0	0.0	0.000
Ethoprop	14.008	340755.0	167093.0	2.039
Phorate	14.075	247527.0	205652.5	1.204
Naled	14.458	36623.0	42400.0	1.021
Sulfotepp	14.617	13272.0	316517.3	0.042
Tributyl phosphate	14.725	301523.0	194078.1	1.554
Diazinon	15.242	314230.0	159967.8	1.964
Disulfoton	15.683	158660.0	157453.1	1.008
S-demeton	15.700	118370.0	140004.3	0.845
Dimethoate	16.808	0.0	0.0	0.000
Ronnel	17.133	276710.0	151012.7	1.832
Merphos-unoxi	17.300	0.0	0.0	0.000
Chlorpyrifos	17.850	265410.0	146679.0	1.809
Fenthion	18.050	276412.0	155172.8	1.781
Trichloronate	18.100	209064.0	173711.5	1.204
M-parathion	18.683	333845.0	179310.6	1.862
Malathion	18.942	0.0	0.0	0.000
Tokuthion	19.708	271813.0	136317.0	1.994
Parathion (ethyl)	19.867	10284.0	174435.4	0.059
Merphos-oxone	19.933	289464.0	170536.1	1.697
Stirophos	20.550	316193.0	139749.8	2.263
Bolstar	21.392	284328.0	144051.0	1.974
Triphenyl phosphate	23.050	303023.0	154307.8	1.964
Fensulfothion	23.642	36675.0	141661.6	0.259 ✓
Famphur	24.475	13409.0	145387.1	0.092
EPN	24.725	0.0	0.0	0.000
M-azinphos	25.167	258644.0	110882.9	2.333 ✓
Coumaphos	28.042	268971.0	118430.5	2.271 ✓

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		289464.0	~~0.0~~ 154913.2	~~1.697~~ 1.869 ✓

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EMAX Analytical Laboratories, Inc.

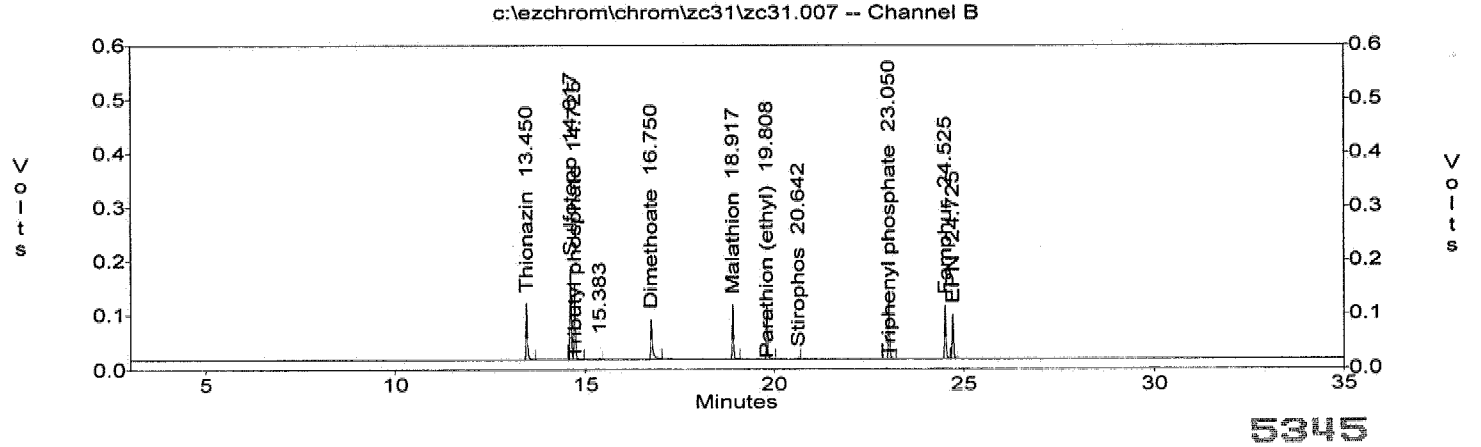
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User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)	
Dichlorvos	8.858	0.0	0.0	0.000	
Mevinphos	12.642	0.0	0.0	0.000	
O-demeton	13.200	0.0	0.0	0.000	
Thionazin	13.450	265327.0	211189.9	1.256	✓
Ethoprop	14.017	0.0	0.0	0.000	
Phorate	14.075	0.0	0.0	0.000	
Naled	14.500	0.0	0.0	0.000	
Sulfotepp	14.617	392646.0	316517.3	1.241	
Tributyl phosphate	14.725	323460.0	194078.1	1.667	
Diazinon	15.250	0.0	0.0	0.000	
Disulfoton	15.683	0.0	0.0	0.000	
S-demeton	15.710	0.0	0.0	0.000	
Dimethoate	16.750	240329.0	183280.9	1.311	
Ronnel	17.133	0.0	0.0	0.000	
Merphos-unoxi	17.300	0.0	0.0	0.000	
Chlorpyrifos	17.850	0.0	0.0	0.000	
Fenthion	18.050	0.0	0.0	0.000	
Trichloronate	18.100	0.0	0.0	0.000	
M-parathion	18.683	0.0	0.0	0.000	
Malathion	18.917	228585.0	133567.1	1.711	
Tokuthion	19.708	0.0	0.0	0.000	
Parathion (ethyl)	19.808	248664.0	174435.4	1.426	
Merphos-oxone	19.983	0.0	0.0	0.000	
Stirophos	20.642	5769.0	139749.8	0.041	
Bolstar	21.392	0.0	0.0	0.000	
Triphenyl phosphate	23.050	294997.0	154307.8	1.912	
Fensulfothion	23.608	0.0	0.0	0.000	
Famphur	24.525	240348.0	145387.1	1.653	
EPN	24.725	195624.0	151889.5	1.288	✓
M-azinphos	25.175	0.0	0.0	0.000	
Coumaphos	28.050	0.0	0.0	0.000	

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



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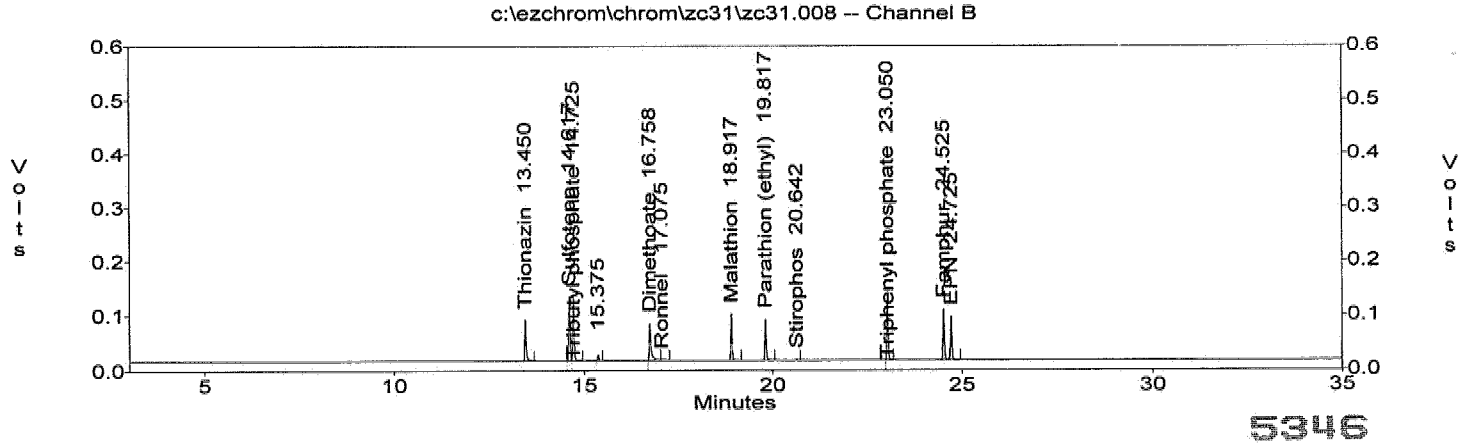
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User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.858	0.0	0.0	0.000
Mevinphos	12.642	0.0	0.0	0.000
O-demeton	13.200	0.0	0.0	0.000
Thionazin	13.450	192452.0	211189.9	0.911
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.500	0.0	0.0	0.000
Sulfotepp	14.617	267608.0	316517.3	0.845
Tributyl phosphate	14.725	276490.0	194078.1	1.425
Diazinon	15.250	0.0	0.0	0.000
Disulfoton	15.683	0.0	0.0	0.000
S-demeton	15.710	0.0	0.0	0.000
Dimethoate	16.758	235198.0	183280.9	1.283
Ronnel	17.075	11852.0	151012.7	0.078
Merphos-unoxi	17.300	0.0	0.0	0.000
Chlorpyrifos	17.850	0.0	0.0	0.000
Fenthion	18.050	0.0	0.0	0.000
Trichloronate	18.100	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.917	195123.0	133567.1	1.461
Tokuthion	19.708	0.0	0.0	0.000
Parathion (ethyl)	19.817	187262.0	174435.4	1.074
Merphos-oxone	19.983	0.0	0.0	0.000
Stirophos	20.642	5459.0	139749.8	0.039
Bolstar	21.392	0.0	0.0	0.000
Triphenyl phosphate	23.050	283439.0	154307.8	1.837
Fensulfothion	23.608	0.0	0.0	0.000
Famphur	24.525	229374.0	145387.1	1.578
EPN	24.725	193537.0	151889.5	1.274
M-azinphos	25.175	0.0	0.0	0.000
Coumaphos	28.050	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



INITIAL CALIBRATIONS

INITIAL CALIBRATION
ORGANOPHOSPHOROUS COMPOUNDS BY GC

Lab Name : EMAX Inc
Instrument ID : GCTO12 HP-5890
GC Column : RTX-OPP2
Column size ID : .32MMX30M
LFID & Datetime: zb01002A 02/01/06 15:17 zb01008A 02/01/06 19:14
LFID & Datetime: zb01003A 02/01/06 15:56 zb01009A 02/01/06 19:54
LFID & Datetime: zb01004A 02/01/06 16:36 zb01010A 02/01/06 20:33
LFID & Datetime: zb01005A 02/01/06 17:15 zb01011A 02/01/06 21:13
LFID & Datetime: zb01006A 02/01/06 17:55 zb01012A 02/01/06 21:53
LFID & Datetime: zb01007A 02/01/06 18:35 zb01013A 02/01/06 22:32
CONC UNIT: PPM

	CONC	CALIBRATION FACTORS (AREA)/UNIT							
COMPOUND	X	1.00X	2.00X	3.00X	4.00X	5.00X	6.00X	MEAN	%RSD
Dichlorvos	0.50	147514	134408	126970	121406	143144	141186	135771.3	7.4
Mevinphos	0.50	129876	127988	124588	112833	133307	131142	126622.2	5.8
O-Demeton	0.50	89410	85324	84111	83137	96927	101059	89994.5	8.2
Thionazin	0.50	736054	654002	597631	558135	533822	510206	598308.3	14.1
Ethoprop	0.50	516696	458123	434707	405861	481828	472025	461540.0	8.3
Naled	0.50	50056	48597	49303	49850	57678	61798	52880.2	10.4
Sulfotepp	0.50	564508	533229	487799	464413	452260	433313	489253.5	10.3
Phorate	0.50	408424	378837	369049	349070	399273	400370	384170.6	5.9
S-Demeton	0.50	187956	171399	168377	165163	190603	197995	180248.9	7.6
Dimethoate	0.50	527154	527703	482039	461584	446876	427361	478786.0	8.7
Diazinon	0.50	371278	331950	321649	319474	349160	346937	340074.5	5.8
Disulfoton	0.50	419716	387428	373017	406868	405031	413027	400847.7	4.3
Methyl Parathion	0.50	286640	249744	251857	271898	284790	279712	270773.5	6.0
Ronnel	0.50	217276	198588	186873	212752	206966	206684	204856.4	5.3
Malathion	0.50	377670	360708	331047	330616	328111	330381	343088.7	6.1
Chlorpyrifos	0.50	305766	274820	274523	300336	298222	297118	291797.4	4.7
Parathion	0.50	408576	401487	358504	344052	343252	332932	364800.5	8.9
Trichloronate	0.50	464346	398540	370943	427998	405352	405102	412046.8	7.6
Fenthion	0.50	249270	227254	240351	242758	254374	257865	245312.1	4.5
Stirophos	0.50	130240	120619	119247	118086	117528	133249	123161.6	5.5
Tokuthion	0.50	500712	456048	453201	497280	478927	489151	479219.8	4.3
Merphos	0.50	644214	604207	601873	648604	619075	647643	627602.6	3.5
Fensulfothion	0.50	231334	235708	229331	272997	264046	271806	250870.3	8.3
Bolstar	0.50	502352	470244	458052	498817	478355	493559	483563.1	3.6
Famphur	0.50	365888	342102	308035	296073	292296	285919	315052.0	10.1
EPN	0.50	442270	424457	378395	367359	364482	364029	390165.3	8.8
Azinphos-methyl	0.50	400646	357587	343950	416740	380680	406576	384363.3	7.5
Coumaphos	0.50	220160	215520	200459	242852	225691	242019	224450.2	7.2
SURROGATE	X	1.00X	2.00X	3.00X	4.00X	5.00X	6.00X	MEAN	%RSD
Tributyl Phosphate	0.50	145756	140574	127534	124190	141611	141500	136860.8	6.4
Triphenyl Phosphate	0.50	202260	185954	182076	218686	194720	210541	199039.4	7.1

CMP 2/6/06

INITIAL CALIBRATION
ORGANOPHOSPHOROUS COMPOUNDS BY GC

Lab Name : EMAX Inc
Instrument ID : GCTO12 HP-5890
GC Column : RTX-OPPESTICIDES
Column size ID : .32MMX30M
LFID & Datetime: zb01002B 02/01/06 15:17 zb01008B 02/01/06 19:14
LFID & Datetime: zb01003B 02/01/06 15:56 zb01009B 02/01/06 19:54
LFID & Datetime: zb01004B 02/01/06 16:36 zb01010B 02/01/06 20:33
LFID & Datetime: zb01005B 02/01/06 17:15 zb01011B 02/01/06 21:13
LFID & Datetime: zb01006B 02/01/06 17:55 zb01012B 02/01/06 21:53
LFID & Datetime: zb01007B 02/01/06 18:35 zb01013B 02/01/06 22:32
CONC UNIT: PPM

	CONC	CALIBRATION FACTORS (AREA)/UNIT							
COMPOUND	X	1.00X	2.00X	3.00X	4.00X	5.00X	6.00X	MEAN	%RSD
Dichlorvos	0.50	153624	151588	157909	158831	159434	182318	160617.2	6.9
Mevinphos	0.50	153524	171934	176500	184185	178493	205631	178377.9	9.5
O-Demeton	0.50	48006	54628	56625	59432	56316	67143	57025.0	11.0
Thionazin	0.50	194658	208578	203307	212362	215936	232300	211189.9	6.0
Ethoprop	0.50	143004	161832	165029	176835	166195	189664	167093.0	9.3
Phorate	0.50	204998	203058	201114	202426	200596	221722	205652.5	3.9
Naled*	0.50	29284	35445	38843	45465	47502	57860	42400.0	23.8
Sulfotepp	0.50	298074	308700	303697	319270	318743	350621	316517.4	5.9
Diazinon	0.50	151092	154496	159510	161812	157628	175269	159967.8	5.2
Disulfoton	0.50	135460	155543	154825	175918	133668	189305	157453.1	14.0
S-Demeton	0.50	112190	142214	148082	124986	164142	148412	140004.3	13.3
Dimethoate	0.50	157526	172386	175629	188866	192557	212721	183280.9	10.4
Ronnel	0.50	148702	149458	147871	150807	146064	163175	151012.7	4.1
Chlorpyrifos	0.50	139768	144434	146225	149433	140413	159801	146679.0	5.0
Fenthion	0.50	156528	147474	149567	163092	146438	167937	155172.8	5.7
Trichloronate	0.50	148522	178025	187787	178749	161955	187232	173711.5	8.9
Methyl Parathion	0.50	161674	173468	176006	180262	180452	204001	179310.6	7.8
Malathion	0.50	125886	130563	129343	135055	135606	144949	133567.1	5.0
Tokuthion	0.50	130228	133927	135423	135873	132553	149898	136317.0	5.1
Parathion	0.50	162914	165125	168645	177898	178382	193649	174435.4	6.5
Merphos	0.50	142666	149426	150467	157207	156529	173184	154913.2	6.7
Stirophos	0.50	133468	140789	138171	139096	135334	151641	139749.8	4.6
Bolstar	0.50	129770	142976	141725	143909	142880	163047	144051.0	7.4
Fensulfothion	0.50	128774	138902	138876	141723	141940	159755	141661.6	7.1
Famphur	0.50	135036	141743	139123	147541	147918	160962	145387.2	6.3
EPN	0.50	137222	149524	147088	155410	154102	167991	151889.5	6.7
Azinphos-methyl	0.50	94792	105836	108745	112879	113983	129063	110882.9	10.1
Coumaphos	0.50	114086	116936	115755	116848	116130	130829	118430.5	5.2
SURROGATE	X	1.00X	2.00X	3.00X	4.00X	5.00X	6.00X	MEAN	%RSD
Tributyl Phosphate	0.50	190474	193196	193963	192908	185861	208067	194078.1	3.8
Triphenyl Phosphate	0.50	151154	153817	153153	153408	147548	166766	154307.8	4.2

*: Naled was evaluated by quadratic regression.

5349

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EMAX Analytical Laboratories, Inc.

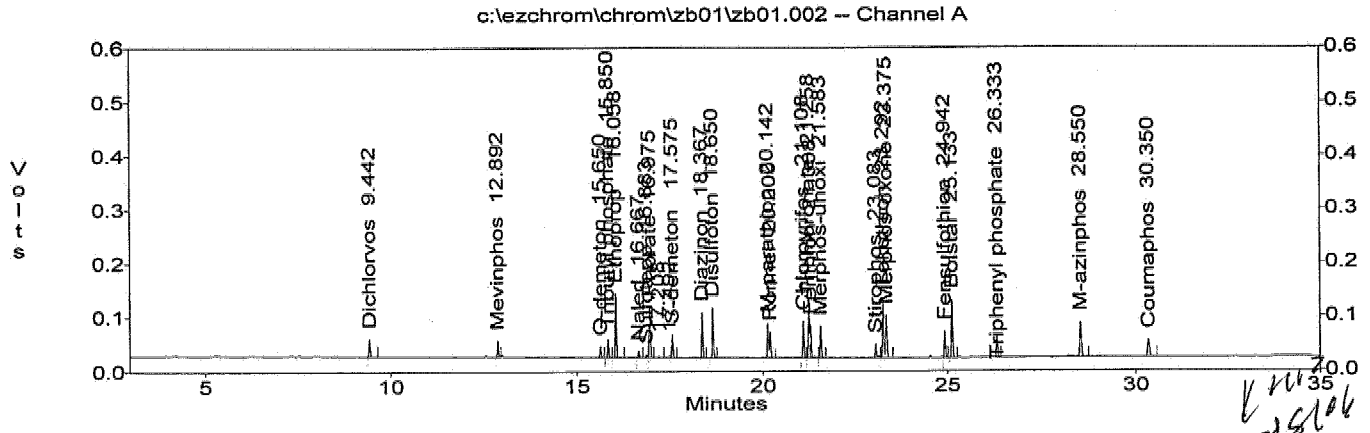
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Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	9.442	73757.0	135771.3	0.500
Mevinphos	12.892	64938.0	126622.2	0.500
O-demeton	15.650	44705.0	89994.5	0.500
Thionazin	15.820	0.0	0.0	0.000
Tributyl phosphate	15.850	72878.0	136860.8	0.500
Ethoprop	16.058	258348.0	461539.9	0.500
Naled	16.667	25028.0	52880.2	0.500
Sulfotepp	16.883	12293.0	0.0	-1.000
Phorate	16.975	204212.0	384170.6	0.500
S-demeton	17.575	93978.0	180248.9	0.500
Dimethoate	18.167	0.0	0.0	0.000
Diazinon	18.367	185639.0	340074.5	0.500
Disulfoton	18.650	209858.0	400847.7	0.500
M-parathion	20.142	143320.0	270773.5	0.500
Ronnel	20.200	108638.0	204856.4	0.500
Malathion	20.983	0.0	0.0	0.000
Chlorpyrifos	21.108	152883.0	291797.4	0.500
Trichloronate	21.258	232173.0	412046.8	0.500
Parathion (ethyl)	21.300	0.0	0.0	0.000
Fenthion	21.308	124635.0	245312.1	0.500
Merphos-unoxi	21.583	137209.0 ✓	554256.9	0.250
Stirophos	23.083	65120.0	123161.6	0.500
Tokuthion	23.292	250356.0	479219.8	0.500
Merphos-oxone	23.375	184898.0 ✓	700948.2	0.250
Fensulfothion	24.942	115667.0	250870.3	0.500
Bolstar	25.133	251176.0	483563.1	0.500
Famphur	25.750	0.0	0.0	0.000
Triphenyl phosphate	26.333	101130.0	199039.4	0.500
EPN	27.108	0.0	0.0	0.000
M-azinphos	28.550	200323.0	384363.3	0.500
Coumaphos	30.350	110080.0	224450.2	0.500

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		322107.0	0.0	0.500



5350

EPA 8141 by NPD/FPD
EMAX Analytical Laboratories, Inc.

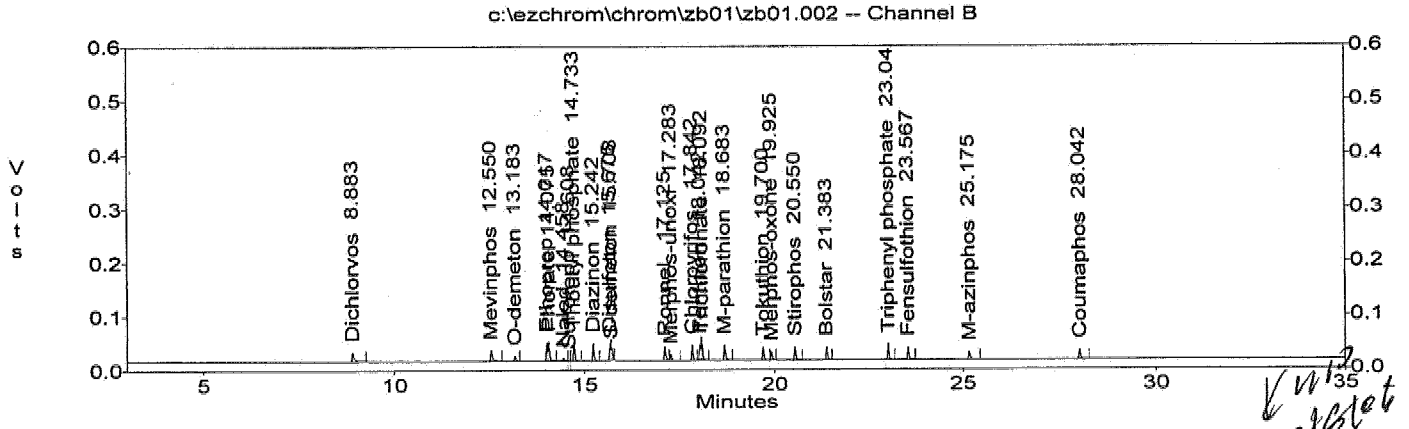
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Sample ID : NP12B011
Acquired : Feb 01, 2006 15:17:14
Printed : Feb 03, 2006 11:19:51
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.883	76812.0	160617.2	0.500
Mevinphos	12.550	76762.0	178377.9	0.500
O-demeton	13.183	24003.0	57025.0	0.500
Thionazin	13.500	0.0	0.0	0.000
Ethoprop	14.017	71502.0	167093.0	0.500
Phorate	14.075	102499.0	205652.5	0.500
Naled	14.458	14642.0	42400.0	0.500
Sulfotepp	14.608	5414.0	0.0	-1.000
Tributyl phosphate	14.733	95237.0	194078.1	0.500
Diazinon	15.242	75546.0	159967.8	0.500
Disulfoton	15.675	67730.0	157453.1	0.500
S-demeton	15.708	56095.0	140004.3	0.500
Dimethoate	16.775	0.0	0.0	0.000
Ronnel	17.125	74351.0	151012.7	0.500
Merphos-unoxi	17.283	33047.0	139290.3	0.250
Chlorpyrifos	17.842	69884.0	146679.0	0.500
Fenthion	18.042	78264.0	155172.8	0.500
Trichloronate	18.092	74261.0	173711.5	0.500
M-parathion	18.683	80837.0	179310.6	0.500
Malathion	18.950	0.0	0.0	0.000
Tokuthion	19.700	65114.0	136317.0	0.500
Parathion (ethyl)	19.825	0.0	0.0	0.000
Merphos-oxone	19.925	38286.0	170536.1	0.250
Stirophos	20.550	66734.0	139749.8	0.500
Bolstar	21.383	64885.0	144051.0	0.500
Triphenyl phosphate	23.042	75577.0	154307.8	0.500
Fensulfothion	23.567	64387.0	141661.6	0.500
Famphur	24.500	0.0	0.0	0.000
EPN	24.800	0.0	0.0	0.000
M-azinphos	25.175	47396.0	110882.9	0.500
Coumaphos	28.042	57043.0	118430.5	0.500

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		71333.0	0.0	0.500



5851

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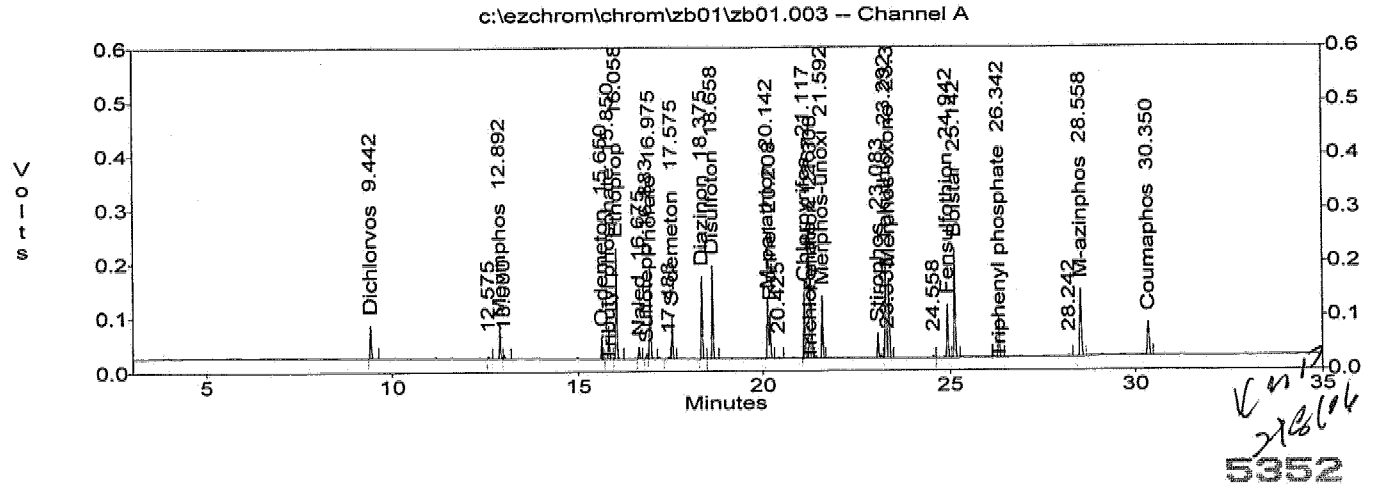
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User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	9.442	134408.0	135771.3	1.000
Mevinphos	12.892	127988.0	126764.2	1.000
O-demeton	15.650	85324.0	90076.5	1.000
Thionazin	15.820	0.0	0.0	0.000
Tributyl phosphate	15.850	140574.0	136860.8	1.000
Ethoprop	16.058	458123.0	461539.9	1.000
Naled	16.675	48597.0	52880.2	1.000
Sulfotepp	16.883	20582.0	0.0	-1.000
Phorate	16.975	378837.0	384170.6	1.000
S-demeton	17.575	171399.0	180407.6	1.000
Dimethoate	18.167	0.0	0.0	0.000
Diazinon	18.375	331950.0	340074.5	1.000
Disulfoton	18.658	387428.0	401181.3	1.000
M-parathion	20.142	249744.0	271067.8	1.000
Ronnel	20.208	198588.0	205036.1	1.000
Malathion	20.983	0.0	0.0	0.000
Chlorpyrifos	21.117	274820.0	291914.1	1.000
Trichloronate	21.267	398540.0	412154.8	1.000
Parathion (ethyl)	21.300	0.0	0.0	0.000
Fenthion	21.308	227254.0	245670.4	1.000
Merphos-unoxi	21.592	267687.0	555068.9	0.500
Stirophos	23.083	120619.0	123161.6	1.000
Tokuthion	23.292	456048.0	479219.8	1.000
Merphos-oxone	23.375	336520.0	700948.2	0.500
Fensulfothion	24.942	235708.0	254250.3	1.000
Bolstar	25.142	470244.0	485067.8	1.000
Famphur	25.750	0.0	0.0	0.000
Triphenyl phosphate	26.342	185954.0	200311.4	1.000
EPN	27.108	0.0	0.0	0.000
M-azinphos	28.558	357587.0	380225.3	1.000
Coumaphos	30.350	215520.0	224986.2	1.000

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		604207.0	0.0	1.000



5352

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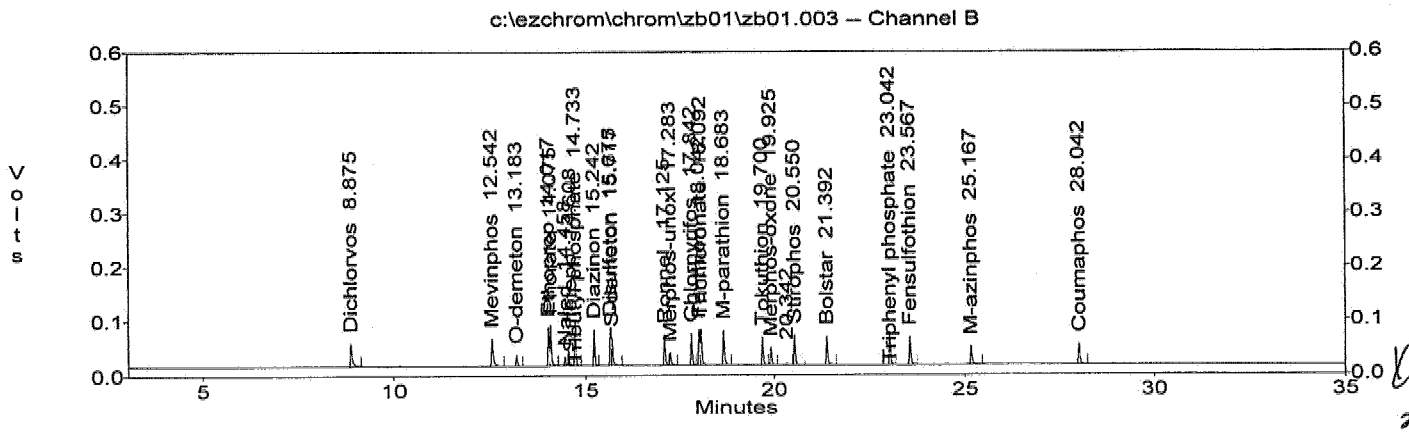
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User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.875	151588.0	161118.9	1.000
Mevinphos	12.542	171934.0	178521.9	1.000
O-demeton	13.183	54628.0	57350.4	1.000
Thionazin	13.500	0.0	0.0	0.000
Ethoprop	14.017	161832.0	167255.4	1.000
Phorate	14.075	203058.0	205848.8	1.000
Naled	14.458	35445.0	42400.0	1.000
Sulfotepp	14.608	10494.0	0.0	-1.000
Tributyl phosphate	14.733	193196.0	193959.5	1.000
Diazinon	15.242	154496.0	159967.8	1.000
Disulfoton	15.675	155543.0	157453.1	1.000
S-demeton	15.717	142214.0	140004.3	1.000
Dimethoate	16.775	0.0	0.0	0.000
Ronnel	17.125	149458.0	151012.7	1.000
Merphos-unoxi	17.283	65009.0	139290.3	0.500
Chlorpyrifos	17.842	144434.0	147049.0	1.000
Fenthion	18.042	147474.0	155730.2	1.000
Trichloronate	18.092	178025.0	175776.5	1.000
M-parathion	18.683	173468.0	179480.9	1.000
Malathion	18.950	0.0	0.0	0.000
Tokuthion	19.700	133927.0	136699.0	1.000
Parathion (ethyl)	19.825	0.0	0.0	0.000
Merphos-oxone	19.925	84417.0	172630.1	0.500
Stirophos	20.550	140789.0	139766.8	1.000
Bolstar	21.392	142976.0	144973.0	1.000
Triphenyl phosphate	23.042	153817.0	154307.8	1.000
Fensulfothion	23.567	138902.0	141924.9	1.000
Famphur	24.500	0.0	0.0	0.000
EPN	24.800	0.0	0.0	0.000
M-azinphos	25.167	105836.0	110882.9	1.000
Coumaphos	28.042	116936.0	118430.5	1.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		149426.0	0.0	1.000



5353

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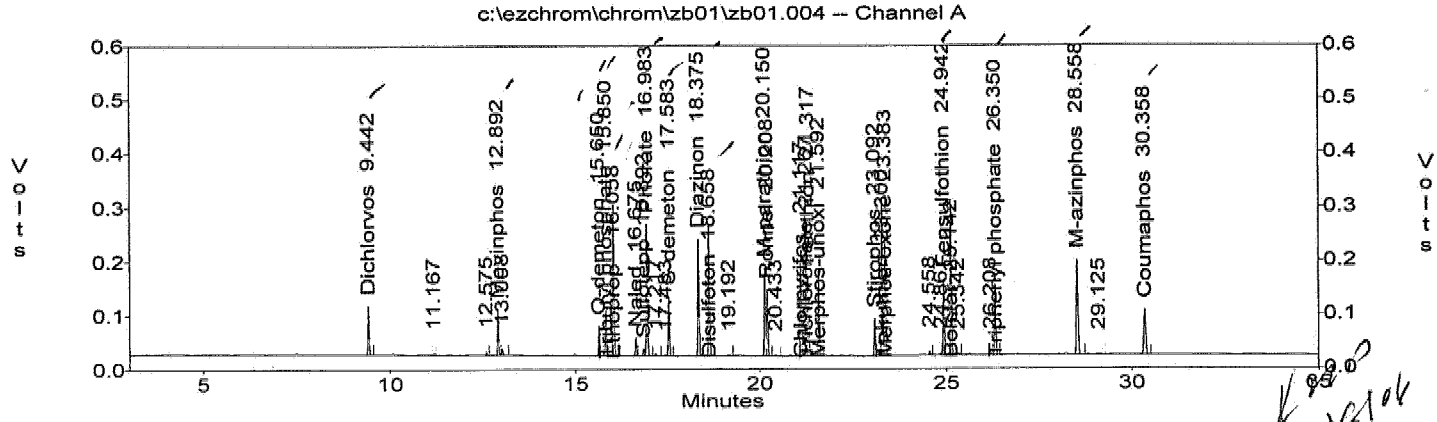
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User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	9.442	190455.0	135771.3	1.500
Mevinphos	12.892	186882.0	126764.2	1.500
O-demeton	15.650	126166.0	90148.7	1.500
Thionazin	15.820	0.0	0.0	0.000
Tributyl phosphate	15.850	191301.0	136953.5	1.500
Ethoprop	16.058	652061.0	461578.1	1.500
Naled	16.675	73955.0	52891.2	1.500
Sulfotepp	16.892	30258.0	0.0	-1.000
Phorate	16.983	553574.0	384178.8	1.500
S-demeton	17.583	252566.0	180407.6	1.500
Dimethoate	18.167	0.0	0.0	0.000
Diazinon	18.375	482473.0	340074.5	1.500
Disulfoton	18.658	559525.0	401181.3	1.500
M-parathion	20.150	377786.0	271384.7	1.500
Ronnel	20.208	280309.0	205188.1	1.500
Malathion	20.983	0.0	0.0	0.000
Chlorpyrifos	21.117	411785.0	292401.8	1.500
Trichloronate	21.267	556415.0	412223.0	1.500
Parathion (ethyl)	21.300	0.0	0.0	0.000
Fenthion	21.317	360527.0	245728.2	1.500
Merphos-unoxi	21.592	405145.0	551655.3	0.750
Stirophos	23.092	178870.0	123699.6	1.500
Tokuthion	23.300	679801.0	479219.8	1.500
Merphos-oxone	23.383	497664.0	700948.2	0.750
Fensulfothion	24.942	343997.0	253938.2	1.500
Bolstar	25.142	687078.0	485263.9	1.500
Famphur	25.750	0.0	0.0	0.000
Triphenyl phosphate	26.350	273114.0	200341.8	1.500
EPN	27.108	0.0	0.0	0.000
M-azinphos	28.558	515925.0	380225.3	1.500
Coumaphos	30.358	300689.0	224986.2	1.500

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		902809.0	0.0	1.500



5354

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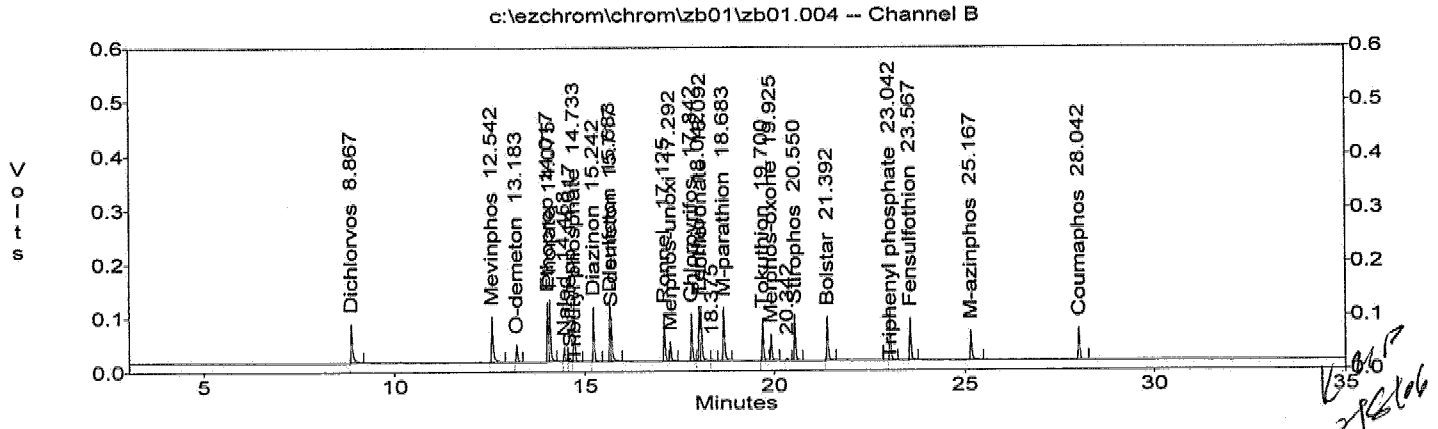
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Printed : Feb 03, 2006 11:20:08
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	8.867	236863.0	162883.7	1.500
Mevinphos	12.542	264750.0	178521.9	1.500
O-demeton	13.183	84938.0	57350.4	1.500
Thionazin	13.500	0.0	0.0	0.000
Ethoprop	14.017	247543.0	167255.4	1.500
Phorate	14.075	301671.0	205848.8	1.500
Naled	14.458	58265.0	42400.0	1.500
Sulfotepp	14.617	16931.0	0.0	-1.000
Tributyl phosphate	14.733	290944.0	194718.3	1.500
Diazinon	15.242	239265.0	159977.3	1.500
Disulfoton	15.683	232238.0	157557.8	1.500
S-demeton	15.717	222123.0	140168.6	1.500
Dimethoate	16.775	0.0	0.0	0.000
Ronnel	17.125	221806.0	151245.2	1.500
Merphos-unoxi	17.292	98741.0	140369.0	0.750
Chlorpyrifos	17.842	219338.0	147252.0	1.500
Fenthion	18.042	224351.0	156062.0	1.500
Trichloronate	18.092	281680.0	177130.8	1.500
M-parathion	18.683	264009.0	180754.9	1.500
Malathion	18.950	0.0	0.0	0.000
Tokuthion	19.700	203135.0	136766.0	1.500
Parathion (ethyl)	19.825	0.0	0.0	0.000
Merphos-oxone	19.925	126959.0	172677.8	0.750
Stirophos	20.550	207257.0	139766.8	1.500
Bolstar	21.392	212587.0	145863.5	1.500
Triphenyl phosphate	23.042	229730.0	154836.4	1.500
Fensulfothion	23.567	208314.0	141924.9	1.500
Famphur	24.500	0.0	0.0	0.000
EPN	24.800	0.0	0.0	0.000
M-azinphos	25.167	163117.0	110882.9	1.500
Coumaphos	28.042	173632.0	118430.5	1.500

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		225700.0	0.0	1.500



5355

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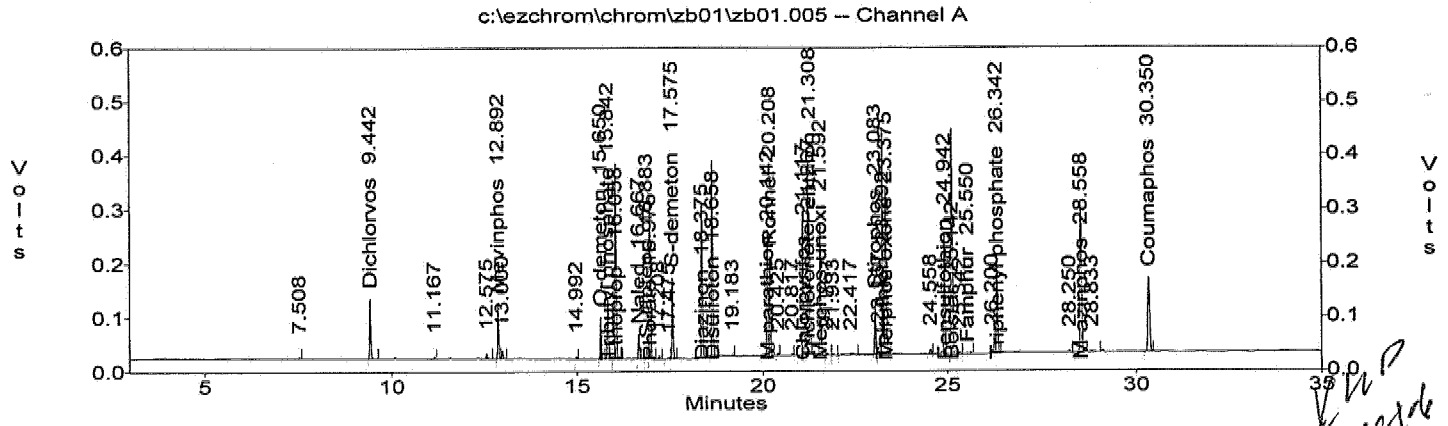
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User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	9.442	242811.0	135771.3	2.000
Mevinphos	12.892	225665.0	126764.2	2.000
O-demeton	15.650	166274.0	90149.8	2.000
Thionazin	15.820	0.0	0.0	0.000
Tributyl phosphate	15.842	248380.0	136953.5	2.000
Ethoprop	16.058	811721.0	461578.1	2.000
Naled	16.667	99699.0	52891.2	2.000
Sulfotepp	16.883	39543.0	0.0	-1.000
Phorate	16.975	698140.0	384178.8	2.000
S-demeton	17.575	330326.0	180407.6	2.000
Dimethoate	18.167	0.0	0.0	0.000
Diazinon	18.375	638947.0	339920.1	2.000
Disulfoton	18.658	813735.0	401206.7	2.000
M-parathion	20.142	543796.0	271731.2	2.000
Ronnel	20.208	425504.0	205491.4	2.000
Malathion	20.983	0.0	0.0	0.000
Chlorpyrifos	21.117	600671.0	292635.2	2.000
Trichloronate	21.267	855995.0	412298.2	2.000
Fenthion	21.308	485516.0	245808.7	2.000
Parathion (ethyl)	21.310	0.0	0.0	0.000
Merphos-unoxi	21.592	584427.0	552329.3	1.000
Stirophos	23.083	236172.0	123743.7	2.000
Tokuthion	23.292	994560.0	479219.8	2.000
Merphos-oxone	23.375	712780.0	700948.2	1.000
Fensulfothion	24.942	545994.0	254440.9	2.000
Bolstar	25.142	997634.0	485762.3	2.000
Famphur	25.550	11901.0	0.0	-1.000
Triphenyl phosphate	26.342	437371.0	200393.8	2.000
EPN	27.108	0.0	0.0	0.000
M-azinphos	28.558	833480.0	380500.6	2.000
Coumaphos	30.350	485703.0	224986.2	2.000

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		1297207.0	0.0	2.000



5356

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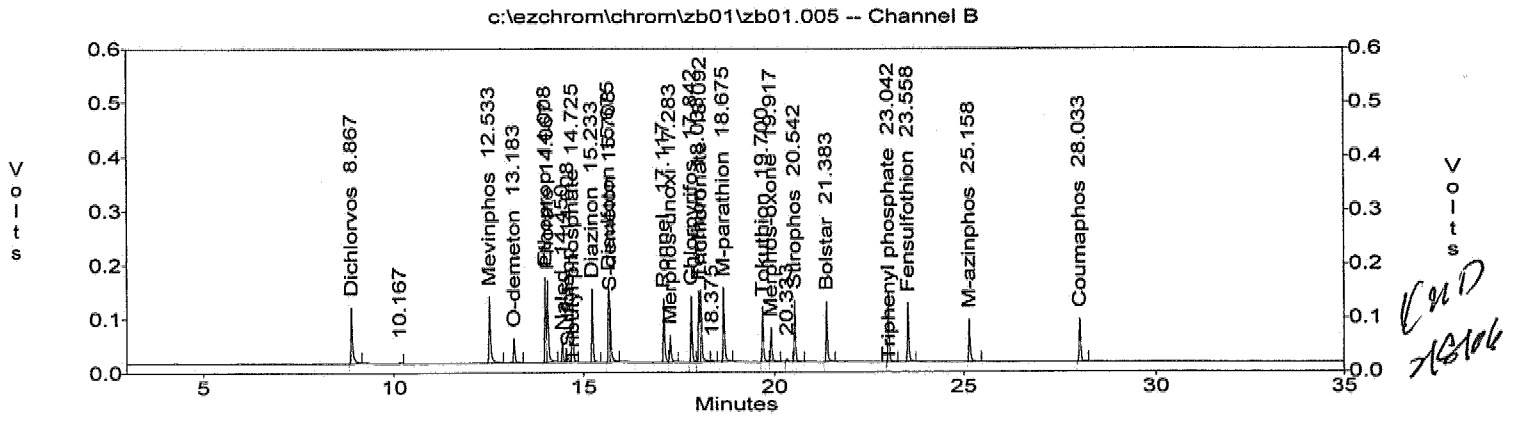
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Printed : Feb 03, 2006 11:20:16
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.867	317662.0	163964.8	2.000
Mevinphos	12.533	368370.0	179294.4	2.000
O-demeton	13.183	118863.0	57784.4	2.000
Thionazin	13.500	0.0	0.0	0.000
Ethoprop	14.008	353670.0	167255.4	2.000
Phorate	14.067	404852.0	205848.8	2.000
Naled	14.450	90930.0	42400.0	2.000
Sulfotepp	14.608	20967.0	0.0	-1.000
Tributyl phosphate	14.725	385816.0	195904.2	2.000
Diazinon	15.233	323623.0	160702.1	2.000
Disulfoton	15.675	351836.0	157593.2	2.000
S-demeton	15.708	249971.0	141057.0	2.000
Dimethoate	16.775	0.0	0.0	0.000
Ronnel	17.117	301614.0	151573.1	2.000
Merphos-unoxi	17.283	139230.0	142147.4	1.000
Chlorpyrifos	17.842	298865.0	147252.0	2.000
Fenthion	18.033	326184.0	156062.0	2.000
Trichloronate	18.092	357497.0	177130.8	2.000
M-parathion	18.675	360524.0	181790.2	2.000
Malathion	18.950	0.0	0.0	0.000
Tokuthion	19.700	271745.0	136976.9	2.000
Parathion (ethyl)	19.825	0.0	0.0	0.000
Merphos-oxone	19.917	175184.0	174700.4	1.000
Stirophos	20.542	278192.0	139766.8	2.000
Bolstar	21.383	287818.0	146872.9	2.000
Triphenyl phosphate	23.042	306816.0	155221.9	2.000
Fensulfothion	23.558	283445.0	142265.6	2.000
Famphur	24.500	0.0	0.0	0.000
EPN	24.800	0.0	0.0	0.000
M-azinphos	25.158	225758.0	111350.1	2.000
Coumaphos	28.033	233695.0	118944.4	2.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		314414.0	0.0	2.000



5357

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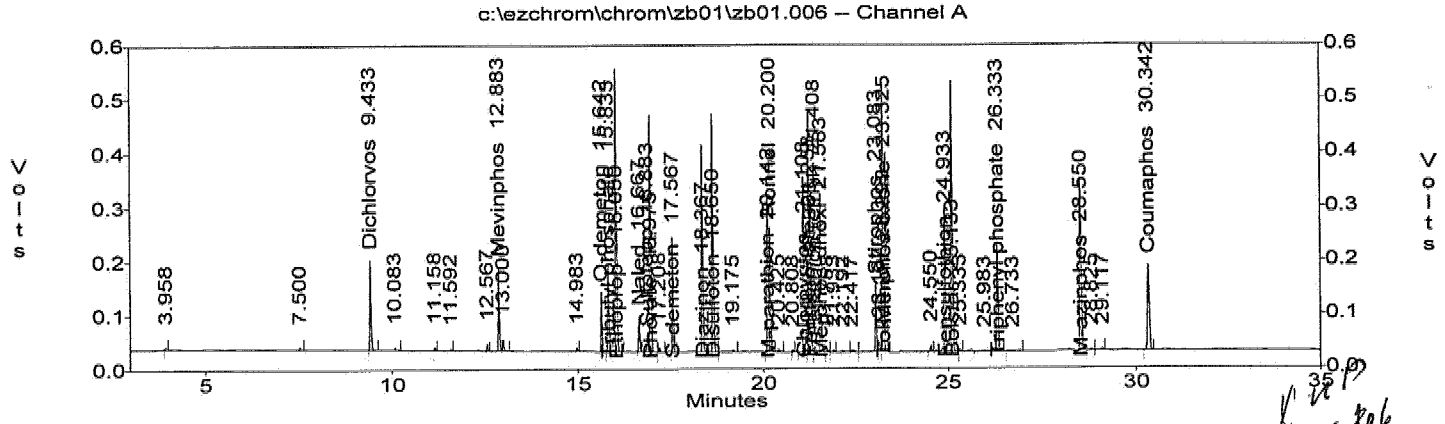
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User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	9.433	357861.0	135771.3	2.500
Mevinphos	12.883	333267.0	126764.2	2.500
O-demeton	15.642	242317.0	90149.8	2.500
Thionazin	15.820	0.0	0.0	0.000
Tributyl phosphate	15.833	354028.0	136953.5	2.500
Ethoprop	16.050	1204570.0	461578.1	2.500
Naled	16.667	144194.0	52901.8	2.500
Sulfotepp	16.883	60557.0	0.0	-1.000
Phorate	16.975	998182.0	384178.8	2.500
S-demeton	17.567	476507.0	180407.6	2.500
Dimethoate	18.167	0.0	0.0	0.000
Diazinon	18.367	872900.0	339920.1	2.500
Disulfoton	18.650	1012577.0	401206.7	2.500
M-parathion	20.142	711974.0	271784.8	2.500
Ronnel	20.200	517415.0	205512.9	2.500
Malathion	20.983	0.0	0.0	0.000
Chlorpyrifos	21.108	745555.0	292635.2	2.500
Trichloronate	21.258	1013379.0	412298.2	2.500
Fenthion	21.308	635936.0	245808.7	2.500
Parathion (ethyl)	21.408	25055.0	0.0	-1.000
Merphos-unoxi	21.583	678666.0 ✓	552329.3	1.250
Stirophos	23.083	293821.0	123743.7	2.500
Tokuthion	23.292	1197318.0	479219.8	2.500
Merphos-oxone	23.325	869021.0 ✓	700948.2	1.250
Fensulfothion	24.933	660115.0	253960.4	2.500
Bolstar	25.133	1195887.0	485811.7	2.500
Famphur	25.750	0.0	0.0	0.000
Triphenyl phosphate	26.333	486801.0	200393.8	2.500
EPN	27.108	0.0	0.0	0.000
M-azinphos	28.550	951701.0	380704.2	2.500
Coumaphos	30.342	564228.0	225452.7	2.500

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		1547687.0	0.0	2.500



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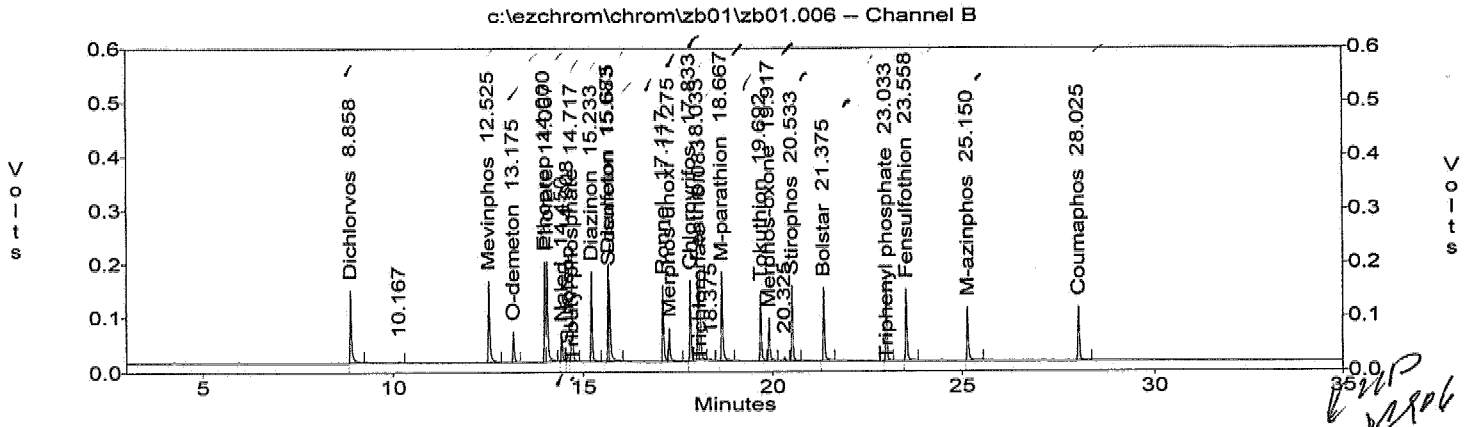
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User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.858	398584.0	165560.4	2.500
Mevinphos	12.525	446232.0	179294.4	2.500
O-demeton	13.175	140791.0	57784.4	2.500
Thionazin	13.500	0.0	0.0	0.000
Ethoprop	14.000	415487.0	167255.4	2.500
Phorate	14.067	501491.0	205848.8	2.500
Naled	14.450	118756.0	42400.0	2.500
Sulfotepp	14.608	24423.0	0.0	-1.000
Tributyl phosphate	14.717	464652.0	195904.2	2.500
Diazinon	15.233	394070.0	161376.8	2.500
Disulfoton	15.675	334169.0	157593.2	2.500
S-demeton	15.683	410355.0	141057.0	2.500
Dimethoate	16.775	0.0	0.0	0.000
Ronnel	17.117	365159.0	151726.6	2.500
Merphos-unoxi	17.275	181944.0	144514.6	1.250
Chlorpyrifos	17.833	351033.0	147504.5	2.500
Fenthion	18.033	366096.0	156112.9	2.500
Trichloronate	18.083	404888.0	177352.7	2.500
M-parathion	18.667	451131.0	182808.2	2.500
Malathion	18.950	0.0	0.0	0.000
Tokuthion	19.692	331383.0	137011.3	2.500
Parathion (ethyl)	19.825	0.0	0.0	0.000
Merphos-oxone	19.917	209379.0	175168.4	1.250
Stirophos	20.533	338334.0	139766.8	2.500
Bolstar	21.375	357199.0	148148.3	2.500
Triphenyl phosphate	23.033	368870.0	155221.9	2.500
Fensulfothion	23.558	354849.0	142687.6	2.500
Famphur	24.500	0.0	0.0	0.000
EPN	24.800	0.0	0.0	0.000
M-azinphos	25.150	284957.0	112462.2	2.500
Coumaphos	28.025	290326.0	119600.4	2.500

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		391323.0	0.0	2.500



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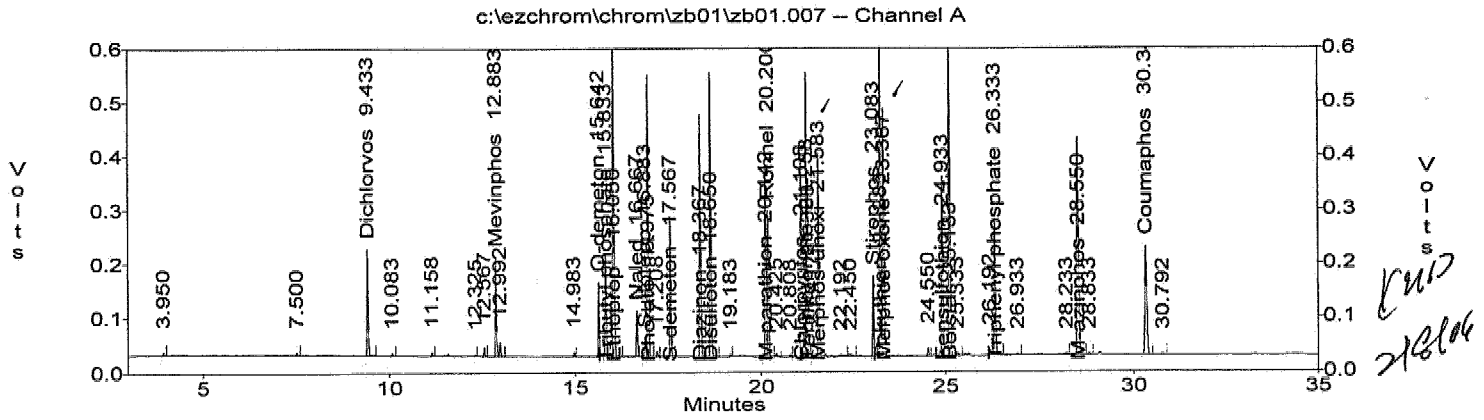
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User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	9.433	423558.0	135771.3	3.000
Mevinphos	12.883	393426.0	126764.2	3.000
O-demeton	15.642	303176.0	90183.7	3.000
Thionazin	15.820	0.0	0.0	0.000
Tributyl phosphate	15.833	424499.0	137040.3	3.000
Ethoprop	16.050	1416074.0	461871.9	3.000
Naled	16.667	185393.0	53389.8	3.000
Sulfotepp	16.883	72145.0	0.0	-1.000
Phorate	16.975	1201111.0	384321.0	3.000
S-demeton	17.567	593986.0	180407.6	3.000
Dimethoate	18.167	0.0	0.0	0.000
Diazinon	18.367	1040811.0	339920.1	3.000
Disulfoton	18.650	1239081.0	401206.7	3.000
M-parathion	20.142	839136.0	272053.2	3.000
Ronnel	20.200	620051.0	205667.3	3.000
Malathion	20.983	0.0	0.0	0.000
Chlorpyrifos	21.108	891353.0	292897.3	3.000
Trichloronate	21.258	1215307.0	412338.3	3.000
Fenthion	21.308	773594.0	245839.6	3.000
Parathion (ethyl)	21.310	0.0	0.0	0.000
Merphos-unoxi	21.583	860668.0	552430.6	1.500
Stirophos	23.083	399748.0	123743.7	3.000
Tokuthion	23.283	1467454.0	479219.8	3.000
Merphos-oxone	23.367	1082262.0	700948.2	1.500
Fensulfothion	24.933	815417.0	254135.1	3.000
Bolstar	25.133	1480676.0	485982.1	3.000
Famphur	25.750	0.0	0.0	0.000
Triphenyl phosphate	26.333	631622.0	200408.4	3.000
EPN	27.108	0.0	0.0	0.000
M-azinphos	28.550	1219729.0	381026.3	3.000
Coumaphos	30.342	726057.0	225625.7	3.000

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		1942930.0	0.0	3.000



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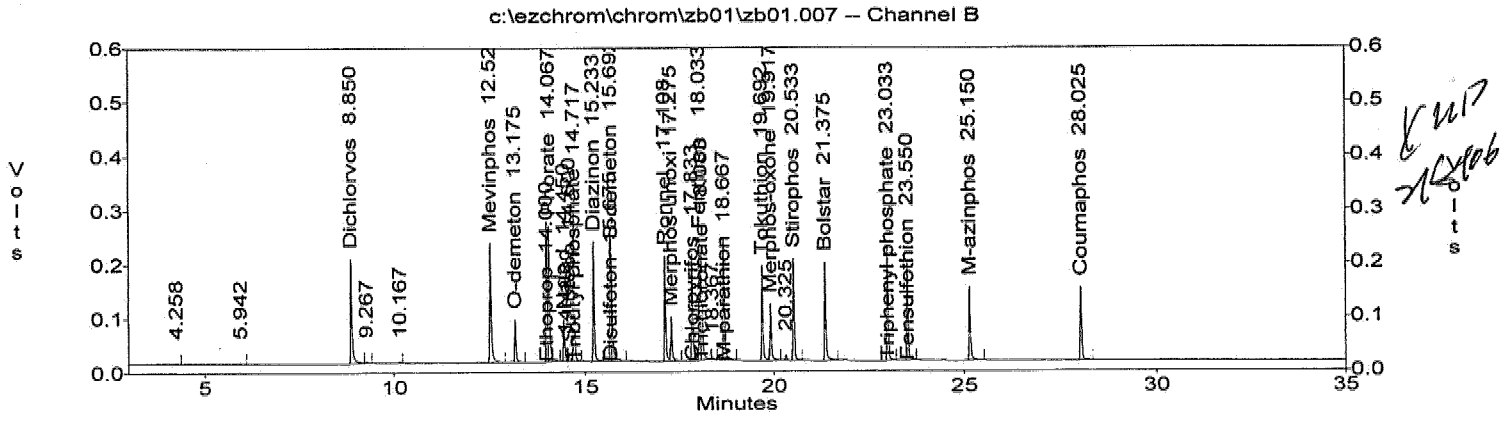
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Printed : Feb 03, 2006 11:20:31
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	8.850	546954.0	166065.2	3.000
Mevinphos	12.525	616894.0	179703.1	3.000
O-demeton	13.175	201429.0	58291.1	3.000
Thionazin	13.500	0.0	0.0	0.000
Ethoprop	14.000	568991.0	167255.4	3.000
Phorate	14.067	665167.0	205848.8	3.000
Naled	14.450	173580.0	42400.0	3.000
Sulfotepp	14.600	34858.0	0.0	-1.000
Tributyl phosphate	14.717	624202.0	195904.2	3.000
Diazinon	15.233	525808.0	162390.3	3.000
Disulfoton	15.675	567914.0	157789.0	3.000
S-demeton	15.692	445237.0	142197.3	3.000
Dimethoate	16.775	0.0	0.0	0.000
Ronnel	17.108	489525.0	151726.6	3.000
Merphos-unoxi	17.275	235644.0 ✓	144514.6	1.500
Chlorpyrifos	17.833	479402.0	147504.5	3.000
Fenthion	18.033	503812.0	156112.9	3.000
Trichloronate	18.083	561695.0	177352.7	3.000
M-parathion	18.667	612003.0	183529.0	3.000
Malathion	18.950	0.0	0.0	0.000
Tokuthion	19.692	449694.0	137278.0	3.000
Parathion (ethyl)	19.825	0.0	0.0	0.000
Merphos-oxone	19.917	283909.0 ✓	178545.6	1.500
Stirophos	20.533	454923.0	140744.9	3.000
Bolstar	21.375	489140.0	149511.7	3.000
Triphenyl phosphate	23.033	500299.0	155627.5	3.000
Fensulfothion	23.550	479266.0	143111.2	3.000
Famphur	24.500	0.0	0.0	0.000
EPN	24.800	0.0	0.0	0.000
M-azinphos	25.150	387189.0	112991.3	3.000
Coumaphos	28.025	392486.0	119600.4	3.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		519553.0	0.0	3.000



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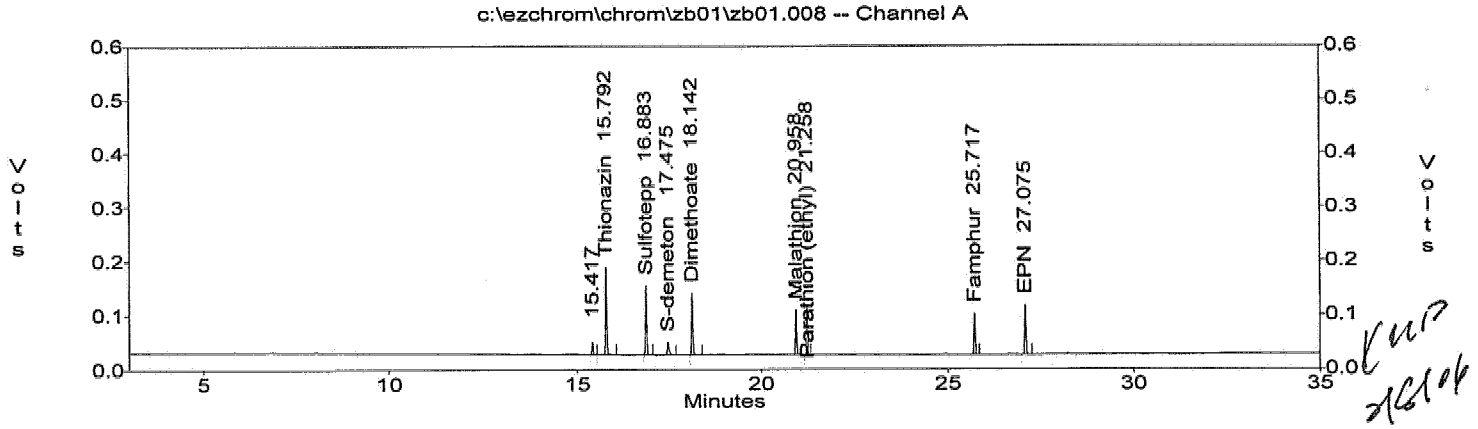
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User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	9.442	0.0	0.0	0.000
Mevinphos	12.892	0.0	0.0	0.000
O-demeton	15.650	0.0	0.0	0.000
Thionazin	15.792	368027.0	736054.0	0.500
Tributyl phosphate	15.850	0.0	0.0	0.000
Ethoprop	16.058	0.0	0.0	0.000
Naled	16.667	0.0	0.0	0.000
Sulfotepp	16.883	282254.0	564508.0	0.500
Phorate	16.975	0.0	0.0	0.000
S-demeton	17.475	79701.0	180248.9	-1.000
Dimethoate	18.142	263577.0	527154.0	0.500
Diazinon	18.367	0.0	0.0	0.000
Disulfoton	18.650	0.0	0.0	0.000
M-parathion	20.142	0.0	0.0	0.000
Ronnel	20.200	0.0	0.0	0.000
Malathion	20.958	188835.0	377670.0	0.500
Chlorpyrifos	21.108	0.0	0.0	0.000
Parathion (ethyl)	21.258	204288.0	408576.0	0.500
Trichloronate	21.267	0.0	0.0	0.000
Fenthion	21.308	0.0	0.0	0.000
Merphos-unoxi	21.583	0.0	0.0	0.000
Stirophos	23.083	0.0	0.0	0.000
Tokuthion	23.292	0.0	0.0	0.000
Merphos-oxone	23.375	0.0	0.0	0.000
Fensulfothion	24.942	0.0	0.0	0.000
Bolstar	25.133	0.0	0.0	0.000
Famphur	25.717	182944.0	365888.0	0.500
Triphenyl phosphate	26.333	0.0	0.0	0.000
EPN	27.075	221135.0	442270.0	0.500
M-azinphos	28.550	0.0	0.0	0.000
Coumaphos	30.350	0.0	0.0	0.000

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



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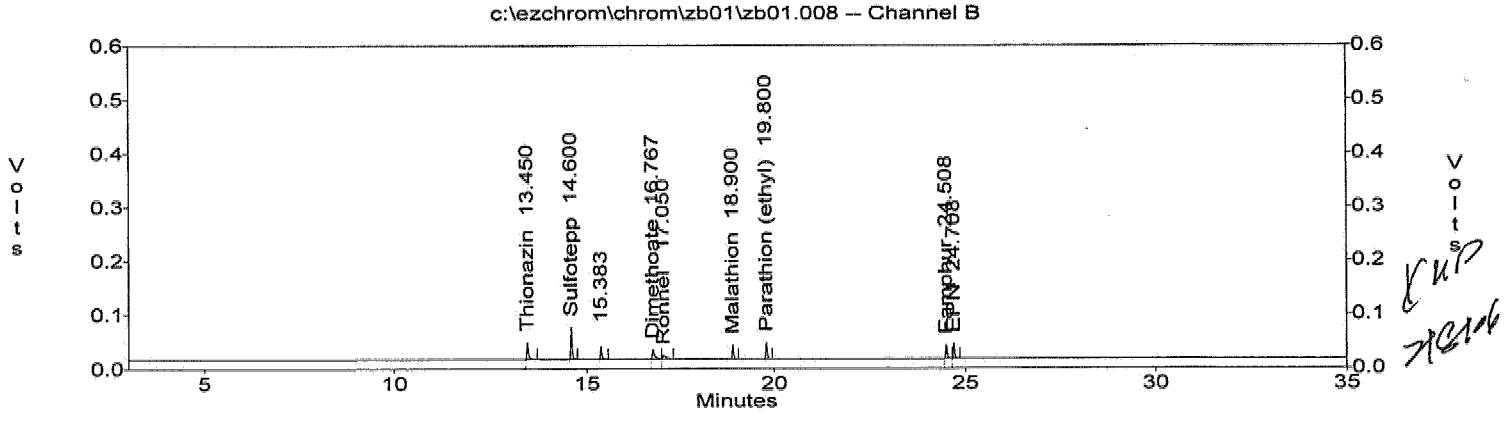
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User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	8.883	0.0	0.0	0.000
Mevinphos	12.550	0.0	0.0	0.000
O-demeton	13.183	0.0	0.0	0.000
Thionazin	13.450	97329.0	194658.0	0.500
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.458	0.0	0.0	0.000
Sulfotepp	14.600	149037.0	298074.0	0.500
Tributyl phosphate	14.733	0.0	0.0	0.000
Diazinon	15.242	0.0	0.0	0.000
Disulfoton	15.675	0.0	0.0	0.000
S-demeton	15.708	0.0	0.0	0.000
Dimethoate	16.767	78763.0	157526.0	0.500
Ronnel	17.050	43249.0	151012.7	-1.000
Merphos-unoxi	17.283	0.0	0.0	0.000
Chlorpyrifos	17.842	0.0	0.0	0.000
Fenthion	18.042	0.0	0.0	0.000
Trichloronate	18.092	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.900	62943.0	125886.0	0.500
Tokuthion	19.700	0.0	0.0	0.000
Parathion (ethyl)	19.800	81457.0	162914.0	0.500
Merphos-oxone	19.925	0.0	0.0	0.000
Stirophos	20.550	0.0	0.0	0.000
Bolstar	21.383	0.0	0.0	0.000
Triphenyl phosphate	23.042	0.0	0.0	0.000
Fensulfothion	23.567	0.0	0.0	0.000
Famphur	24.508	67518.0	135036.0	0.500
EPN	24.708	68611.0	137222.0	0.500
M-azinphos	25.175	0.0	0.0	0.000
Coumaphos	28.042	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		0.0	0.0	0.000



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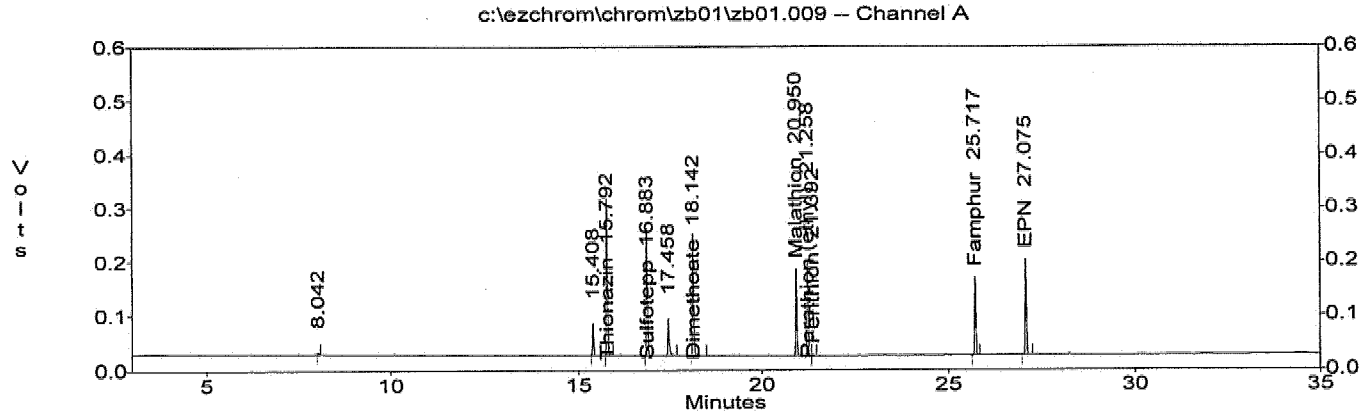
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User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	9.442	0.0	0.0	0.000
Mevinphos	12.892	0.0	0.0	0.000
O-demeton	15.650	0.0	0.0	0.000
Thionazin	15.792	654002.0	695028.0	1.000
Tributyl phosphate	15.850	0.0	0.0	0.000
Ethoprop	16.058	0.0	0.0	0.000
Naled	16.667	0.0	0.0	0.000
Sulfotepp	16.883	533229.0	548868.5	1.000
Phorate	16.975	0.0	0.0	0.000
S-demeton	17.575	0.0	0.0	0.000
Dimethoate	18.142	527703.0	527428.5	1.000
Diazinon	18.367	0.0	0.0	0.000
Disulfoton	18.650	0.0	0.0	0.000
M-parathion	20.142	0.0	0.0	0.000
Ronnel	20.200	0.0	0.0	0.000
Malathion	20.950	360708.0	369189.0	1.000
Chlorpyrifos	21.108	0.0	0.0	0.000
Parathion (ethyl)	21.258	401487.0	405031.5	1.000
Trichloronate	21.267	0.0	0.0	0.000
Fenthion	21.392	6413.0	245312.1	-1.000
Merphos-unoxi	21.583	0.0	0.0	0.000
Stirophos	23.083	0.0	0.0	0.000
Tokuthion	23.292	0.0	0.0	0.000
Merphos-oxone	23.375	0.0	0.0	0.000
Fensulfothion	24.942	0.0	0.0	0.000
Bolstar	25.133	0.0	0.0	0.000
Famphur	25.717	342102.0	353995.0	1.000
Triphenyl phosphate	26.333	0.0	0.0	0.000
EPN	27.075	424457.0	433363.5	1.000
M-azinphos	28.550	0.0	0.0	0.000
Coumaphos	30.350	0.0	0.0	0.000

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



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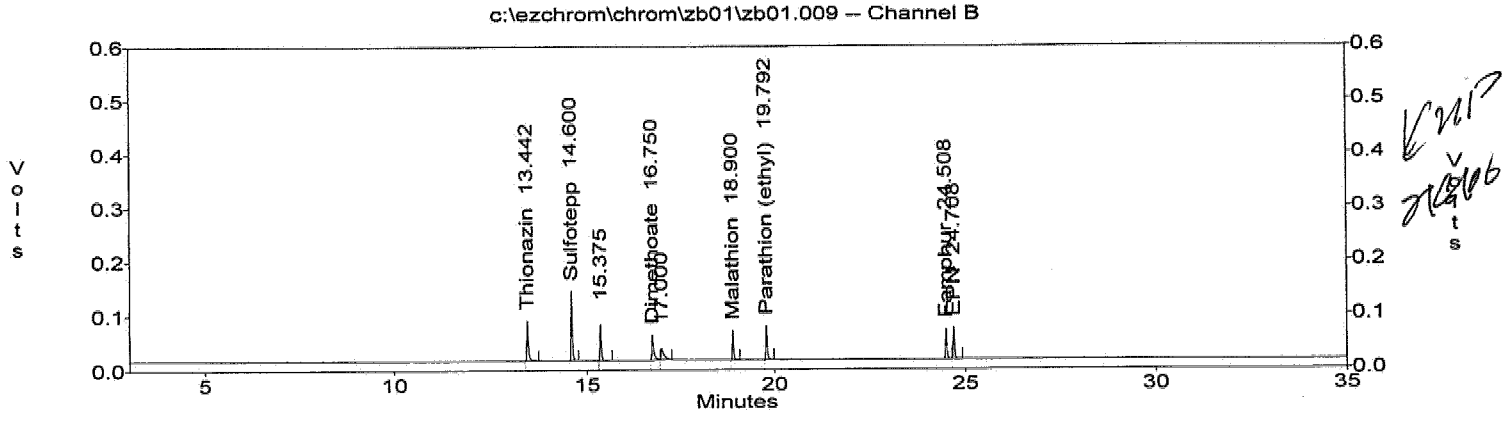
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User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.883	0.0	0.0	0.000
Mevinphos	12.550	0.0	0.0	0.000
O-demeton	13.183	0.0	0.0	0.000
Thionazin	13.442	208578.0	201618.0	1.000
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.458	0.0	0.0	0.000
Sulfotepp	14.600	308700.0	303387.0	1.000
Tributyl phosphate	14.733	0.0	0.0	0.000
Diazinon	15.242	0.0	0.0	0.000
Disulfoton	15.675	0.0	0.0	0.000
S-demeton	15.708	0.0	0.0	0.000
Dimethoate	16.750	172386.0	164956.0	1.000
Ronnel	17.125	0.0	0.0	0.000
Merphos-unoxi	17.283	0.0	0.0	0.000
Chlorpyrifos	17.842	0.0	0.0	0.000
Fenthion	18.042	0.0	0.0	0.000
Trichloronate	18.092	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.900	130563.0	128224.5	1.000
Tokuthion	19.700	0.0	0.0	0.000
Parathion (ethyl)	19.792	165125.0	164019.5	1.000
Merphos-oxone	19.925	0.0	0.0	0.000
Stirophos	20.550	0.0	0.0	0.000
Bolstar	21.383	0.0	0.0	0.000
Triphenyl phosphate	23.042	0.0	0.0	0.000
Fensulfothion	23.567	0.0	0.0	0.000
Famphur	24.508	141743.0	138389.5	1.000
EPN	24.708	149524.0	143373.0	1.000
M-azinphos	25.175	0.0	0.0	0.000
Coumaphos	28.042	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



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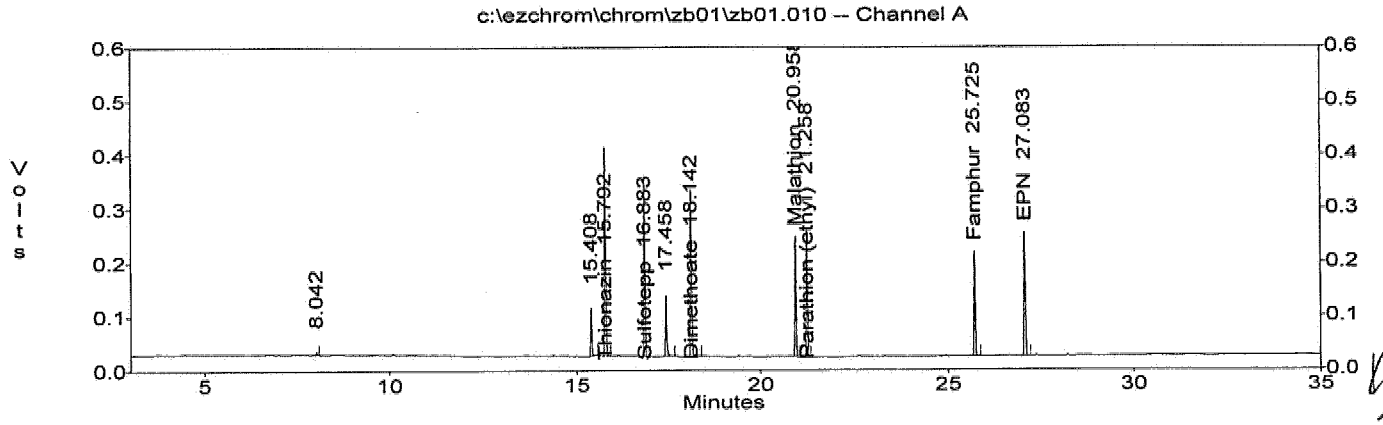
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Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	9.442	0.0	0.0	0.000
Mevinphos	12.892	0.0	0.0	0.000
O-demeton	15.650	0.0	0.0	0.000
Thionazin	15.792	896447.0	662562.4	1.500
Tributyl phosphate	15.850	0.0	0.0	0.000
Ethoprop	16.058	0.0	0.0	0.000
Naled	16.667	0.0	0.0	0.000
Sulfotepp	16.883	731698.0	528511.9	1.500
Phorate	16.975	0.0	0.0	0.000
S-demeton	17.575	0.0	0.0	0.000
Dimethoate	18.142	723058.0	512298.5	1.500
Diazinon	18.367	0.0	0.0	0.000
Disulfoton	18.650	0.0	0.0	0.000
M-parathion	20.142	0.0	0.0	0.000
Ronnel	20.200	0.0	0.0	0.000
Malathion	20.958	496571.0	356475.1	1.500
Chlorpyrifos	21.108	0.0	0.0	0.000
Parathion (ethyl)	21.258	537756.0	389522.3	1.500
Trichloronate	21.267	0.0	0.0	0.000
Fenthion	21.308	0.0	0.0	0.000
Merphos-unoxi	21.583	0.0	0.0	0.000
Stirophos	23.083	0.0	0.0	0.000
Tokuthion	23.292	0.0	0.0	0.000
Merphos-oxone	23.375	0.0	0.0	0.000
Fensulfothion	24.942	0.0	0.0	0.000
Bolstar	25.133	0.0	0.0	0.000
Famphur	25.725	462052.0	338674.9	1.500
Triphenyl phosphate	26.333	0.0	0.0	0.000
EPN	27.083	567592.0	415040.5	1.500
M-azinphos	28.550	0.0	0.0	0.000
Coumaphos	30.350	0.0	0.0	0.000

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		0.0	0.0	0.000



RWC 2/8/06

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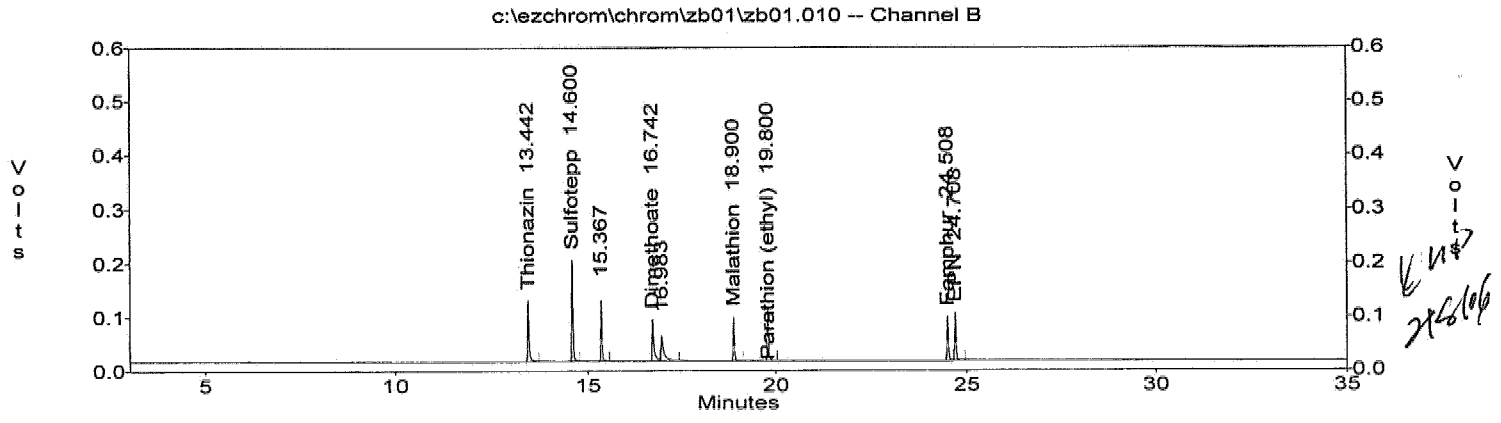
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Method : c:\ezchrom\methods\np12b01.met
Sample ID : NP12B019
Acquired : Feb 01, 2006 20:33:57
Printed : Feb 03, 2006 11:57:28
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.883	0.0	0.0	0.000
Mevinphos	12.550	0.0	0.0	0.000
O-demeton	13.183	0.0	0.0	0.000
Thionazin	13.442	304960.0	202180.9	1.500
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.458	0.0	0.0	0.000
Sulfotepp	14.600	455546.0	303490.5	1.500
Tributyl phosphate	14.733	0.0	0.0	0.000
Diazinon	15.242	0.0	0.0	0.000
Disulfoton	15.675	0.0	0.0	0.000
S-demeton	15.708	0.0	0.0	0.000
Dimethoate	16.742	263444.0	168513.8	1.500
Ronnel	17.125	0.0	0.0	0.000
Merphos-unoxi	17.283	0.0	0.0	0.000
Chlorpyrifos	17.842	0.0	0.0	0.000
Fenthion	18.042	0.0	0.0	0.000
Trichloronate	18.092	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.900	194015.0	128597.4	1.500
Tokuthion	19.700	0.0	0.0	0.000
Parathion (ethyl)	19.800	252967.0	165561.2	1.500
Merphos-oxone	19.925	0.0	0.0	0.000
Stirophos	20.550	0.0	0.0	0.000
Bolstar	21.383	0.0	0.0	0.000
Triphenyl phosphate	23.042	0.0	0.0	0.000
Fensulfothion	23.567	0.0	0.0	0.000
Famphur	24.508	208684.0	138633.9	1.500
EPN	24.708	220632.0	144611.3	1.500
M-azinphos	25.175	0.0	0.0	0.000
Coumaphos	28.042	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



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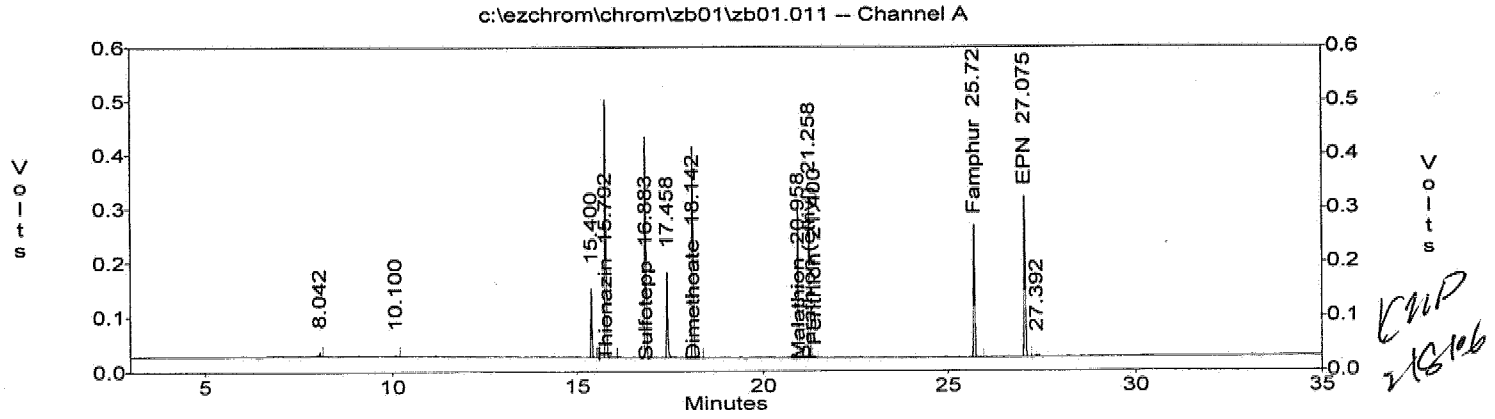
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Printed : Feb 03, 2006 11:57:35
User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	9.442	0.0	0.0	0.000
Mevinphos	12.892	0.0	0.0	0.000
O-demeton	15.650	0.0	0.0	0.000
Thionazin	15.792	1116269.0	636455.5	2.000
Tributyl phosphate	15.850	0.0	0.0	0.000
Ethoprop	16.058	0.0	0.0	0.000
Naled	16.667	0.0	0.0	0.000
Sulfotepp	16.883	928825.0	512487.1	2.000
Phorate	16.975	0.0	0.0	0.000
S-demeton	17.575	0.0	0.0	0.000
Dimethoate	18.142	923168.0	499619.9	2.000
Diazinon	18.367	0.0	0.0	0.000
Disulfoton	18.650	0.0	0.0	0.000
M-parathion	20.142	0.0	0.0	0.000
Ronnel	20.200	0.0	0.0	0.000
Malathion	20.958	661231.0	350010.2	2.000
Chlorpyrifos	21.108	0.0	0.0	0.000
Parathion (ethyl)	21.258	688104.0	378154.8	2.000
Trichloronate	21.267	0.0	0.0	0.000
Fenthion	21.400	10973.0	245312.1	-1.000
Merphos-unoxi	21.583	0.0	0.0	0.000
Stirophos	23.083	0.0	0.0	0.000
Tokuthion	23.292	0.0	0.0	0.000
Merphos-oxone	23.375	0.0	0.0	0.000
Fensulfothion	24.942	0.0	0.0	0.000
Bolstar	25.133	0.0	0.0	0.000
Famphur	25.725	592145.0	328024.3	2.000
Triphenyl phosphate	26.333	0.0	0.0	0.000
EPN	27.075	734718.0	403120.2	2.000
M-azinphos	28.550	0.0	0.0	0.000
Coumaphos	30.350	0.0	0.0	0.000

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		0.0	0.0	0.000



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EMAX Analytical Laboratories, Inc.

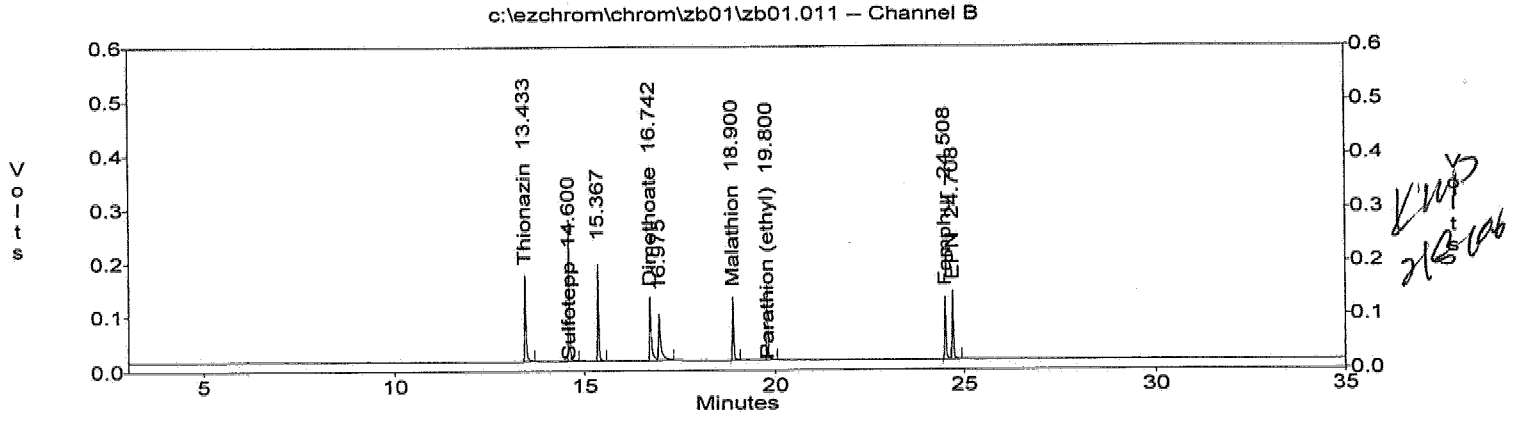
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Acquired : Feb 01, 2006 21:13:33
Printed : Feb 03, 2006 11:57:35
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	8.883	0.0	0.0	0.000
Mevinphos	12.550	0.0	0.0	0.000
O-demeton	13.183	0.0	0.0	0.000
Thionazin	13.433	424723.0	204726.0	2.000
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.458	0.0	0.0	0.000
Sulfotepp	14.600	638539.0	307435.2	2.000
Tributyl phosphate	14.733	0.0	0.0	0.000
Diazinon	15.242	0.0	0.0	0.000
Disulfoton	15.675	0.0	0.0	0.000
S-demeton	15.708	0.0	0.0	0.000
Dimethoate	16.742	377732.0	173601.8	2.000
Ronnel	17.125	0.0	0.0	0.000
Merphos-unoxi	17.283	0.0	0.0	0.000
Chlorpyrifos	17.842	0.0	0.0	0.000
Fenthion	18.042	0.0	0.0	0.000
Trichloronate	18.092	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.900	270110.0	130211.8	2.000
Tokuthion	19.700	0.0	0.0	0.000
Parathion (ethyl)	19.800	355795.0	168645.3	2.000
Merphos-oxone	19.925	0.0	0.0	0.000
Stirophos	20.550	0.0	0.0	0.000
Bolstar	21.383	0.0	0.0	0.000
Triphenyl phosphate	23.042	0.0	0.0	0.000
Fensulfothion	23.567	0.0	0.0	0.000
Famphur	24.508	295081.0	140860.5	2.000
EPN	24.708	310820.0	147311.0	2.000
M-azinphos	25.175	0.0	0.0	0.000
Coumaphos	28.042	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		0.0	0.0	0.000



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EMAX Analytical Laboratories, Inc.

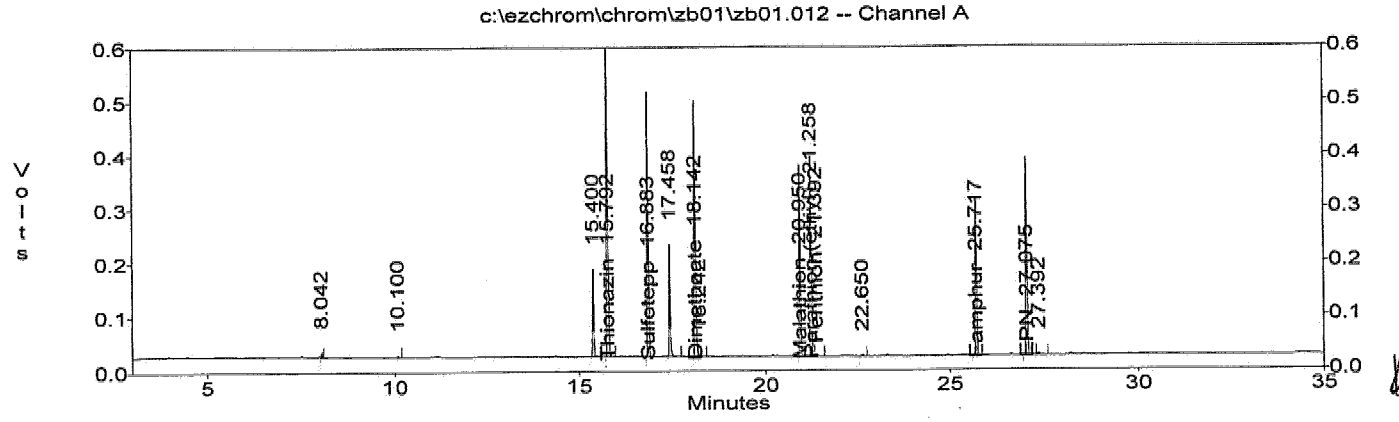
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Printed : Feb 03, 2006 11:57:41
User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	9.442	0.0	0.0	0.000
Mevinphos	12.892	0.0	0.0	0.000
O-demeton	15.650	0.0	0.0	0.000
Thionazin	15.792	1334554.0	615928.7	2.500
Tributyl phosphate	15.850	0.0	0.0	0.000
Ethoprop	16.058	0.0	0.0	0.000
Naled	16.667	0.0	0.0	0.000
Sulfotepp	16.883	1130651.0	500441.7	2.500
Phorate	16.975	0.0	0.0	0.000
S-demeton	17.575	0.0	0.0	0.000
Dimethoate	18.142	1117190.0	489071.1	2.500
Diazinon	18.367	0.0	0.0	0.000
Disulfoton	18.650	0.0	0.0	0.000
M-parathion	20.142	0.0	0.0	0.000
Ronnel	20.200	0.0	0.0	0.000
Malathion	20.950	820277.0	345630.3	2.500
Chlorpyrifos	21.108	0.0	0.0	0.000
Parathion (ethyl)	21.258	858129.0	371174.1	2.500
Trichloronate	21.267	0.0	0.0	0.000
Fenthion	21.392	16088.0	245312.1	-1.000
Merphos-unoxi	21.583	0.0	0.0	0.000
Stirophos	23.083	0.0	0.0	0.000
Tokuthion	23.292	0.0	0.0	0.000
Merphos-oxone	23.375	0.0	0.0	0.000
Fensulfothion	24.942	0.0	0.0	0.000
Bolstar	25.133	0.0	0.0	0.000
Famphur	25.717	730740.0	320878.7	2.500
Triphenyl phosphate	26.333	0.0	0.0	0.000
EPN	27.075	911206.0	395392.6	2.500
M-azinphos	28.550	0.0	0.0	0.000
Coumaphos	30.350	0.0	0.0	0.000

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		0.0	0.0	0.000



5370

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EMAX Analytical Laboratories, Inc.

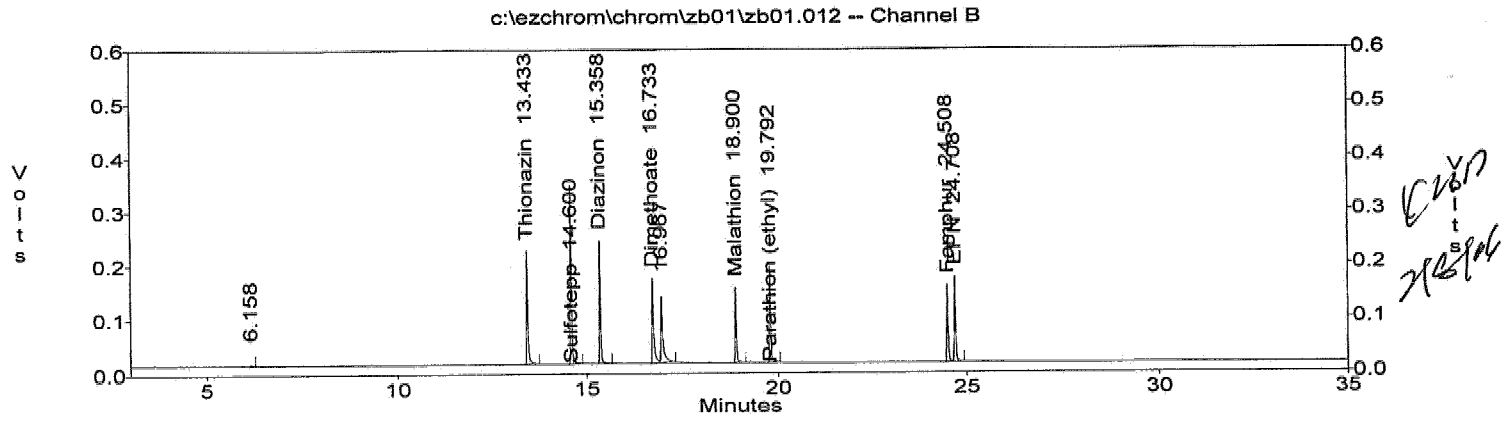
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Printed : Feb 03, 2006 11:57:42
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.883	0.0	0.0	0.000
Mevinphos	12.550	0.0	0.0	0.000
O-demeton	13.183	0.0	0.0	0.000
Thionazin	13.433	539839.0	206968.0	2.500
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.458	0.0	0.0	0.000
Sulfotepp	14.600	796857.0	309696.7	2.500
Tributyl phosphate	14.733	0.0	0.0	0.000
Diazinon	15.358	546869.0	159967.8	-1.000
Disulfoton	15.675	0.0	0.0	0.000
S-demeton	15.708	0.0	0.0	0.000
Dimethoate	16.733	481393.0	177392.9	2.500
Ronnel	17.125	0.0	0.0	0.000
Merphos-unoxi	17.283	0.0	0.0	0.000
Chlorpyrifos	17.842	0.0	0.0	0.000
Fenthion	18.042	0.0	0.0	0.000
Trichloronate	18.092	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.900	339016.0	131290.8	2.500
Tokuthion	19.700	0.0	0.0	0.000
Parathion (ethyl)	19.792	445956.0	170592.7	2.500
Merphos-oxone	19.925	0.0	0.0	0.000
Stirophos	20.550	0.0	0.0	0.000
Bolstar	21.383	0.0	0.0	0.000
Triphenyl phosphate	23.042	0.0	0.0	0.000
Fensulfothion	23.567	0.0	0.0	0.000
Famphur	24.508	369796.0	142272.1	2.500
EPN	24.708	385256.0	148669.3	2.500
M-azinphos	25.175	0.0	0.0	0.000
Coumaphos	28.042	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



EPA 8141 by NPD/FPD
EMAX Analytical Laboratories, Inc.

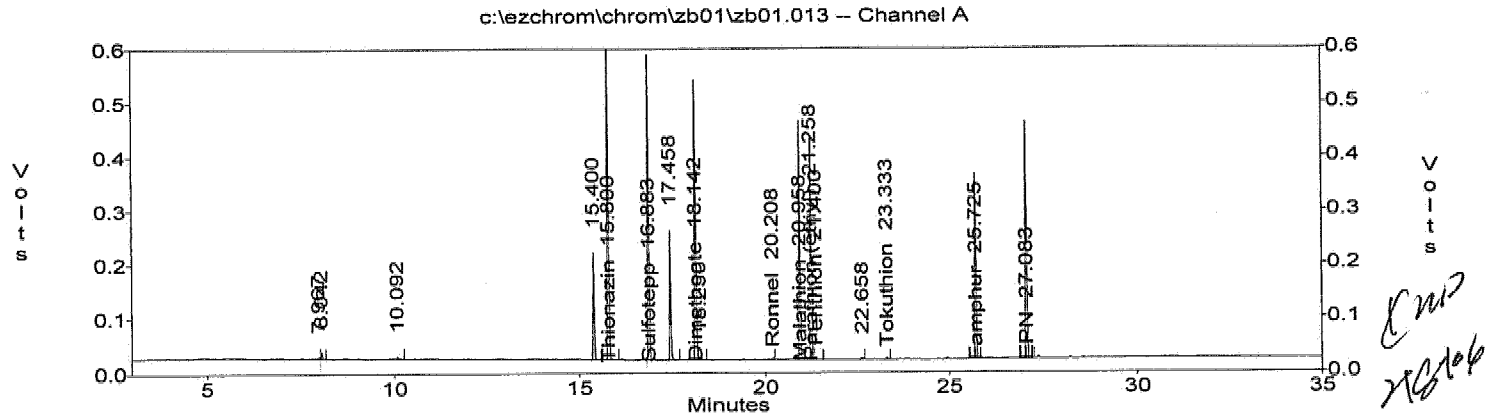
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Printed : Feb 03, 2006 11:57:48
User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	9.442	0.0	0.0	0.000
Mevinphos	12.892	0.0	0.0	0.000
O-demeton	15.650	0.0	0.0	0.000
Thionazin	15.800	1530619.0	598308.3	3.000
Tributyl phosphate	15.850	0.0	0.0	0.000
Ethoprop	16.058	0.0	0.0	0.000
Naled	16.667	0.0	0.0	0.000
Sulfotepp	16.883	1299938.0	489253.5	3.000
Phorate	16.975	0.0	0.0	0.000
S-demeton	17.575	0.0	0.0	0.000
Dimethoate	18.142	1282082.0	478786.0	3.000
Diazinon	18.367	0.0	0.0	0.000
Disulfoton	18.650	0.0	0.0	0.000
M-parathion	20.142	0.0	0.0	0.000
Ronnel	20.208	5678.0	204856.4	-1.000
Malathion	20.958	991142.0	343088.7	3.000
Chlorpyrifos	21.108	0.0	0.0	0.000
Parathion (ethyl)	21.258	998797.0	364800.5	3.000
Trichloronate	21.267	0.0	0.0	0.000
Fenthion	21.400	16620.0	245312.1	-1.000
Merphos-unoxi	21.583	0.0	0.0	0.000
Stirophos	23.083	0.0	0.0	0.000
Tokuthion	23.333	7070.0	479219.8	-1.000
Merphos-oxone	23.375	0.0	0.0	0.000
Fensulfothion	24.942	0.0	0.0	0.000
Bolstar	25.133	0.0	0.0	0.000
Famphur	25.725	857756.0	315052.0	3.000
Triphenyl phosphate	26.333	0.0	0.0	0.000
EPN	27.083	1092086.0	390165.3	3.000
M-azinphos	28.550	0.0	0.0	0.000
Coumaphos	30.350	0.0	0.0	0.000

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



EPA 8141 by NPD/FPD
EMAX Analytical Laboratories, Inc.

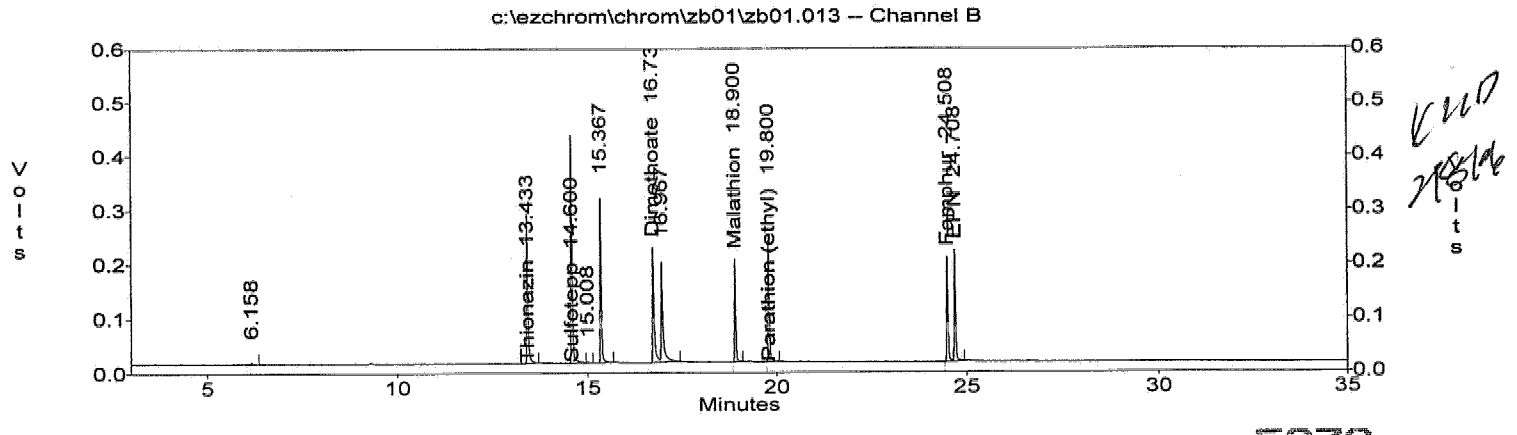
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Printed : Feb 03, 2006 11:57:48
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.883	0.0	0.0	0.000
Mevinphos	12.550	0.0	0.0	0.000
O-demeton	13.183	0.0	0.0	0.000
Thionazin	13.433	696899.0	211189.9	3.000
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.458	0.0	0.0	0.000
Sulfotepp	14.600	1051862.0	316517.4	3.000
Tributyl phosphate	14.733	0.0	0.0	0.000
Diazinon	15.242	0.0	0.0	0.000
Disulfoton	15.675	0.0	0.0	0.000
S-demeton	15.708	0.0	0.0	0.000
Dimethoate	16.733	638162.0	183280.9	3.000
Ronnel	17.125	0.0	0.0	0.000
Merphos-unoxi	17.283	0.0	0.0	0.000
Chlorpyrifos	17.842	0.0	0.0	0.000
Fenthion	18.042	0.0	0.0	0.000
Trichloronate	18.092	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.900	434846.0	133567.1	3.000
Tokuthion	19.700	0.0	0.0	0.000
Parathion (ethyl)	19.800	580946.0	174435.4	3.000
Merphos-oxone	19.925	0.0	0.0	0.000
Stirophos	20.550	0.0	0.0	0.000
Bolstar	21.383	0.0	0.0	0.000
Triphenyl phosphate	23.042	0.0	0.0	0.000
Fensulfothion	23.567	0.0	0.0	0.000
Famphur	24.508	482887.0	145387.1	3.000
EPN	24.708	503972.0	151889.5	3.000
M-azinphos	25.175	0.0	0.0	0.000
Coumaphos	28.042	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



SECOND SOURCE VERIFICATION

SECOND SOURCE VERIFICATION
ORGANOPHOSPHOROUS COMPOUNDS BY GC

Lab Name : EMAX Inc
Instrument ID : GCTO12 HP-5890
GC Columm : RTX-OPP2
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: ZB01004A 02/01/2006 16:36
Mid Conc Init LFID & Datetime: ZB01010A 02/01/2006 20:33
Conc Cont LFID & Datetime: ZB01014A 02/01/2006 23:12
Conc Cont LFID & Datetime: ZB01017A 02/02/2006 01:10
CONC UNIT : PPM

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Dichlorvos	9.442	9.414	9.470	1.5	135771.3	185193	1.36	-9		20
Mevinphos	12.883	12.845	12.921	1.5	126622.2	165343	1.31	-13		20
O-Demeton	15.650	15.598	15.702	1.5	89994.5	113223	1.26	-16		20
Thionazin	15.800	15.727	15.873	1.5	598308.3	805627	1.35	-10		20
Ethoprop	16.058	16.006	16.110	1.5	461540.0	641705	1.39	-7		20
Naled	16.667	16.643	16.691	1.5	52880.2	73931	1.40	-7		20
Sulfotepp	16.892	16.863	16.921	1.5	489253.5	675592	1.38	-8		20
Phorate	16.975	16.946	17.004	1.5	384170.6	525813	1.37	-9		20
S-Demeton	17.575	17.547	17.603	1.5	180248.9	244076	1.35	-10		20
Dimethoate	18.150	18.077	18.223	1.5	478786.0	657001	1.37	-9		20
Diazinon	18.375	18.299	18.451	1.5	340074.5	467220	1.37	-8		20
Disulfoton	18.658	18.620	18.696	1.5	400847.7	540924	1.35	-10		20
Methyl Parathion	20.142	20.104	20.180	1.5	270773.5	356659	1.32	-12		20
Ronnel	20.208	20.184	20.232	1.5	204856.4	277408	1.35	-10		20
Malathion	20.967	20.929	21.005	1.5	343088.7	482285	1.41	-6		20
Chlorpyrifos	21.117	21.103	21.131	1.5	291797.4	383478	1.31	-12		20
Parathion	21.267	21.224	21.310	1.5	364800.5	496543	1.36	-9		20
Trichloronate	21.267	21.229	21.305	1.5	412046.8	569710	1.38	-8		20
Fenthion	21.308	21.270	21.346	1.5	245312.1	305774	1.25	-17		20
Stirophos	23.083	23.021	23.145	1.5	123161.6	160416	1.30	-13		20
Tokuthion	23.292	23.242	23.342	1.5	479219.8	644545	1.35	-10		20
Merphos	NA	NA	NA	1.5	627602.6	842411	1.34	-11		20
Fensulfothion	24.942	24.904	24.980	1.5	250870.3	323478	1.29	-14		20
Bolstar	25.142	25.092	25.192	1.5	483563.1	655035	1.36	-10		20
Famphur	25.733	25.674	25.792	1.5	315052.0	431232	1.37	-9		20
EPN	27.083	27.067	27.099	1.5	390165.3	536302	1.38	-8		20
Azinphos-methyl	28.550	28.536	28.564	1.5	384363.3	511029	1.33	-11		20
Coumaphos	30.350	30.324	30.376	1.5	224450.2	295644	1.32	-12		20

SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Tributyl Phosphate	15.842	15.804	15.880	1.5	136860.8	177261	1.29	-14		20
Triphenyl Phosphate	26.342	26.318	26.366	1.5	199039.4	244689	1.23	-18		20

Note: Naled result was from zb01015a.

SECOND SOURCE VERIFICATION
ORGANOPHOSPHOROUS COMPOUNDS BY GC

Lab Name : EMAX Inc
Instrument ID : GCTO12 HP-5890
GC Column : RTX-OPPESTICIDES
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: ZB01004B 02/01/2006 16:36
Mid Conc Init LFID & Datetime: ZB01010B 02/01/2006 20:33
Conc Cont LFID & Datetime: ZB01014B 02/01/2006 23:12
Conc Cont LFID & Datetime: ZB01017B 02/02/2006 01:10
CONC UNIT : PPM

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Dichlorvos	8.867	8.851	8.883	1.5	160617.2	227201	1.41	-6		20
Mevinphos	12.533	12.509	12.557	1.5	178377.9	248921	1.39	-7		20
O-Demeton	13.183	13.169	13.197	1.5	57025.0	75133	1.32	-12		20
Thionazin	13.450	13.398	13.502	1.5	211189.9	321304	1.52	1		20
Ethoprop	14.008	13.992	14.024	1.5	167093.0	248848	1.49	-1		20
Phorate	14.067	14.041	14.093	1.5	205652.5	302426	1.47	-2		20
Naled	14.458	14.444	14.472	1.5	42400.0	54685	1.40	-7		20
Sulfotepp	14.608	14.594	14.622	1.5	316517.4	481632	1.52	1		20
Diazinon	15.233	15.204	15.262	1.5	159967.8	230046	1.44	-4		20
Disulfoton	15.675	15.659	15.691	1.5	157453.1	244551	1.55	4		20
S-Demeton	15.708	15.642	15.774	1.5	140004.3	193386	1.38	-8		20
Dimethoate	16.750	16.734	16.766	1.5	183280.9	272782	1.49	-1		20
Ronnel	17.117	17.103	17.131	1.5	151012.7	226960	1.50	0		20
Chlorpyrifos	17.842	17.828	17.856	1.5	146679.0	211719	1.44	-4		20
Fenthion	18.042	18.016	18.068	1.5	155172.8	228174	1.47	-2		20
Trichloronate	18.092	18.066	18.118	1.5	173711.5	240129	1.38	-8		20
Methyl Parathion	18.675	18.659	18.691	1.5	179310.6	267648	1.49	-0		20
Malathion	18.908	18.879	18.937	1.5	133567.1	205744	1.54	3		20
Tokuthion	19.700	19.676	19.724	1.5	136317.0	192943	1.41	-6		20
Parathion	19.808	19.779	19.837	1.5	174435.4	263442	1.51	1		20
Merphos	NA	NA	NA	1.5	154913.2	217120	1.40	-7		20
Stirophos	20.542	20.514	20.570	1.5	139749.8	200144	1.43	-5		20
Bolstar	21.383	21.355	21.411	1.5	144051.0	209536	1.46	-3		20
Fensulfothion	23.558	23.544	23.572	1.5	141661.6	200708	1.42	-6		20
Famphur	24.517	24.503	24.531	1.5	145387.2	219047	1.51	0		20
EPN	24.717	24.703	24.731	1.5	151889.5	226212	1.49	-1		20
Azinphos-methyl	25.158	25.144	25.172	1.5	110882.9	156616	1.41	-6		20
Coumaphos	28.033	28.007	28.059	1.5	118430.5	168293	1.42	-5		20
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
Tributyl Phosphate	14.725	14.625	14.825	1.5	194078.1	274180	1.41	-6		20
Triphenyl Phosphate	23.042	23.026	23.058	1.5	154307.8	214283	1.39	-7		20

Note: Naled result was from zb01015b.

CM
1/5/06

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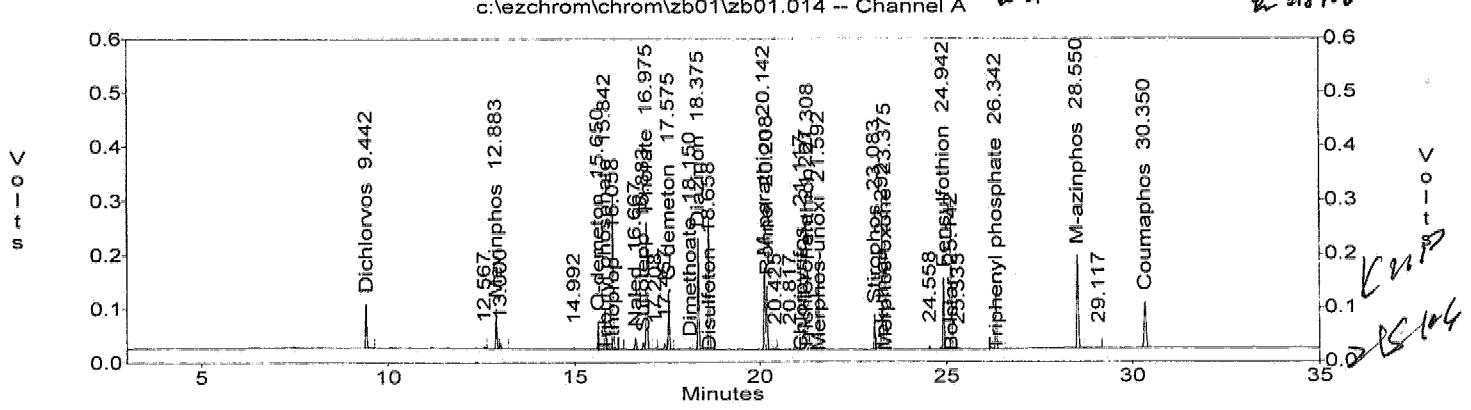
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Printed : Feb 08, 2006 10:57:16
User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	9.442	185193.0	135771.3	1.364
Mevinphos	12.883	165343.0	126622.2	1.306
O-demeton	15.650	113223.0	89994.5	1.258
Thionazin	15.800	0.0	0.0	0.000
Tributyl phosphate	15.842	177261.0	136860.8	1.295
Ethoprop	16.058	641705.0	461540.0	1.390
Naled	16.667	48395.0	52880.2	0.915
Sulfotepp	16.883	29246.0	489253.5	0.060
Phorate	16.975	525813.0	384170.6	1.369
S-demeton	17.575	244076.0	180248.9	1.354
Dimethoate	18.150	6695.0	478786.0	0.014
Diazinon	18.375	467220.0	340074.5	1.374
Disulfoton	18.658	540924.0	400847.7	1.349
M-parathion	20.142	356659.0	270773.5	1.317
Ronnel	20.208	277408.0	204856.4	1.354
Malathion	20.958	0.0	0.0	0.000
Chlorpyrifos	21.117	383478.0	291797.4	1.314
Trichloronate	21.267	569710.0	412046.8	1.383
Parathion (ethyl)	21.268	0.0	0.0	0.000
Fenthion	21.308	305774.0	245312.1	1.246
Merphos-unoxi	21.592	392644.0	554257.0	0.708
Stirophos	23.083	160416.0	123161.6	1.302
Tokuthion	23.292	644545.0	479219.8	1.345
Merphos-oxone	23.375	449767.0	700948.2	0.642
Fensulfothion	24.942	323478.0	250870.3	1.289
Bolstar	25.142	655035.0	483563.1	1.355
Famphur	25.725	0.0	0.0	0.000
Triphenyl phosphate	26.342	244689.0	199039.4	1.229
EPN	27.083	0.0	0.0	0.000
M-azinphos	28.550	511029.0	384363.3	1.330
Coumaphos	30.350	295644.0	224450.2	1.317

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		842411.0	627602.6 ~~0.0~~	~~1.350~~ 1.342



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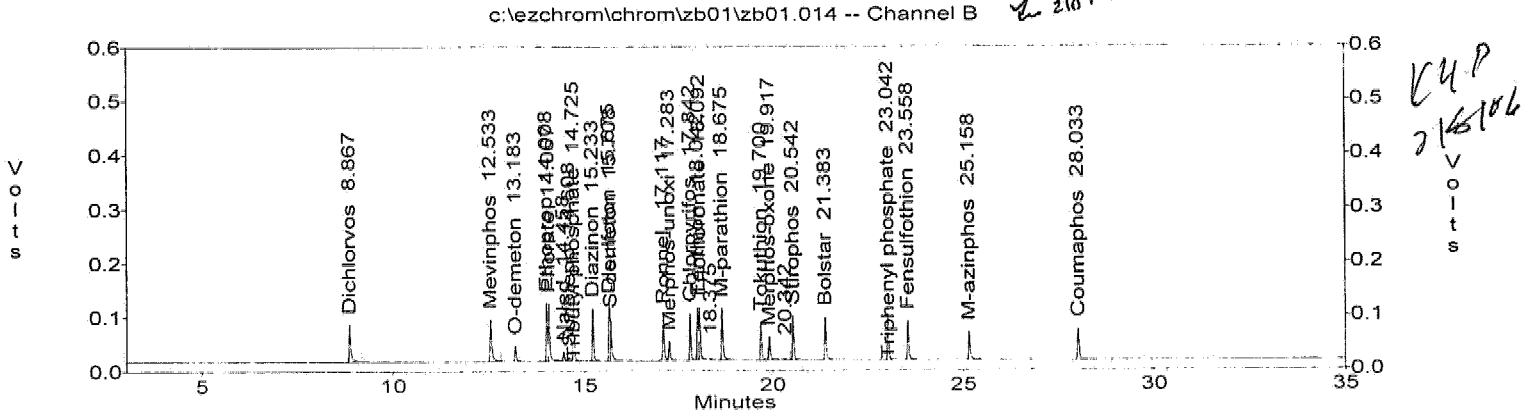
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Printed : Feb 08, 2006 10:57:17
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.867	227201.0	160617.2	1.415
Mevinphos	12.533	248921.0	178377.9	1.395
O-demeton	13.183	75133.0	57025.0	1.318
Thionazin	13.433	0.0	0.0	0.000
Ethoprop	14.008	248848.0	167093.0	1.489
Phorate	14.067	302426.0	205652.5	1.471
Naled	14.458	46247.0	42400.0	1.228
Sulfotepp	14.608	16841.0	316517.3	0.053
Tributyl phosphate	14.725	274180.0	194078.1	1.413
Diazinon	15.233	230046.0	159967.8	1.438
Disulfoton	15.675	244551.0	157453.1	1.553
S-demeton	15.708	193386.0	140004.3	1.381
Dimethoate	16.733	0.0	0.0	0.000
Ronnel	17.117	226960.0	151012.7	1.503
Merphos-unoxi	17.283	97085.0	139290.3	0.697
Chlorpyrifos	17.842	211719.0	146679.0	1.443
Fenthion	18.042	228174.0	155172.8	1.470
Trichloronate	18.092	240129.0	173711.5	1.382
M-parathion	18.675	267648.0	179310.6	1.493
Malathion	18.900	0.0	0.0	0.000
Tokuthion	19.700	192943.0	136317.0	1.415
Parathion (ethyl)	19.800	0.0	0.0	0.000
Merphos-oxone	19.917	120035.0	170536.1	0.704
Stirophos	20.542	200144.0	139749.8	1.432
Bolstar	21.383	209536.0	144051.0	1.455
Triphenyl phosphate	23.042	214283.0	154307.8	1.389
Fensulfothion	23.558	200708.0	141661.6	1.417
Famphur	24.508	0.0	0.0	0.000
EPN	24.708	0.0	0.0	0.000
M-azinphos	25.158	156616.0	110882.9	1.412
Coumaphos	28.033	168293.0	118430.5	1.421

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		217120.0	154913.2 ~~0.0~~	1.401



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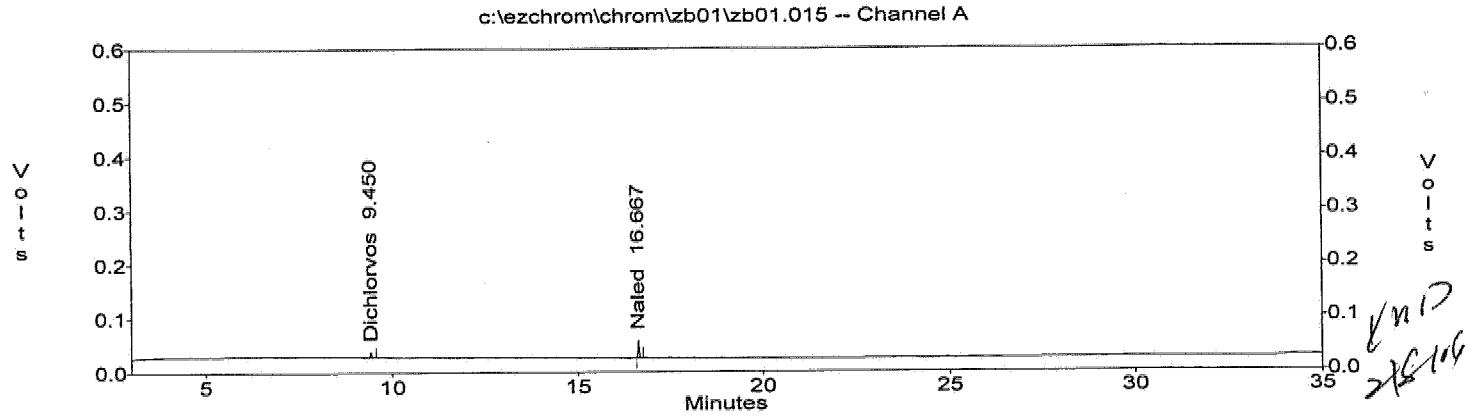
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Printed : Feb 03, 2006 16:06:19
User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	9.450	23409.0	135771.3	0.172
Mevinphos	12.892	0.0	0.0	0.000
O-demeton	15.650	0.0	0.0	0.000
Thionazin	15.800	0.0	0.0	0.000
Tributyl phosphate	15.850	0.0	0.0	0.000
Ethoprop	16.058	0.0	0.0	0.000
Naled	16.667	73931.0	52880.2	1.398
Sulfotepp	16.883	0.0	0.0	0.000
Phorate	16.975	0.0	0.0	0.000
S-demeton	17.575	0.0	0.0	0.000
Dimethoate	18.142	0.0	0.0	0.000
Diazinon	18.367	0.0	0.0	0.000
Disulfoton	18.650	0.0	0.0	0.000
M-parathion	20.142	0.0	0.0	0.000
Ronnel	20.200	0.0	0.0	0.000
Malathion	20.958	0.0	0.0	0.000
Chlorpyrifos	21.108	0.0	0.0	0.000
Trichloronate	21.267	0.0	0.0	0.000
Parathion (ethyl)	21.268	0.0	0.0	0.000
Fenthion	21.308	0.0	0.0	0.000
Merphos-unoxi	21.583	0.0	0.0	0.000
Stirophos	23.083	0.0	0.0	0.000
Tokuthion	23.292	0.0	0.0	0.000
Merphos-oxone	23.375	0.0	0.0	0.000
Fensulfothion	24.942	0.0	0.0	0.000
Bolstar	25.133	0.0	0.0	0.000
Famphur	25.725	0.0	0.0	0.000
Triphenyl phosphate	26.333	0.0	0.0	0.000
EPN	27.083	0.0	0.0	0.000
M-azinphos	28.550	0.0	0.0	0.000
Coumaphos	30.350	0.0	0.0	0.000

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		0.0	0.0	0.000



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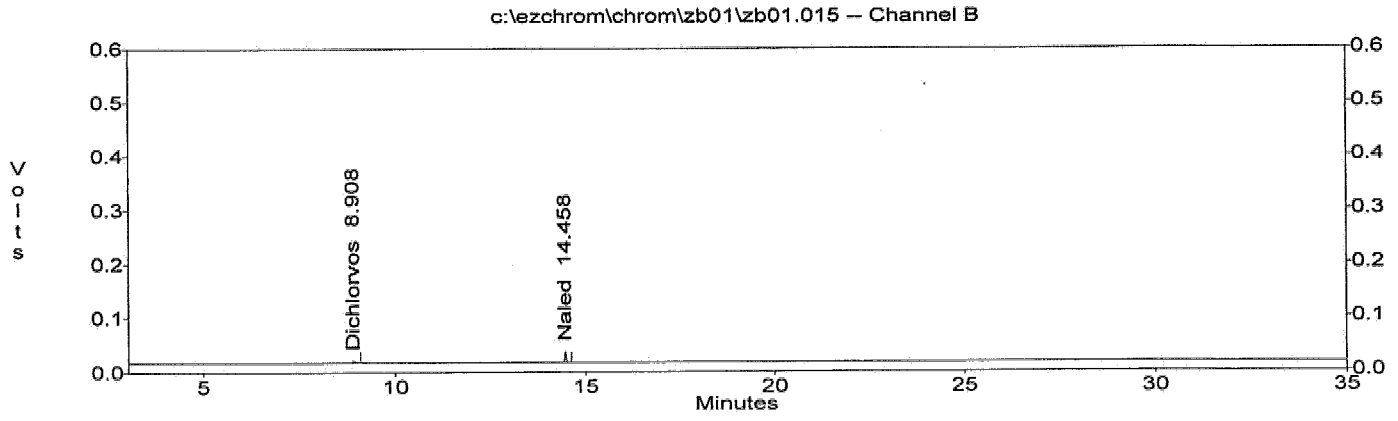
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User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.908	18741.0	160617.2	0.117
Mevinphos	12.550	0.0	0.0	0.000
O-demeton	13.183	0.0	0.0	0.000
Thionazin	13.433	0.0	0.0	0.000
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.458	54685.0	42400.0	1.402
Sulfotepp	14.600	0.0	0.0	0.000
Tributyl phosphate	14.733	0.0	0.0	0.000
Diazinon	15.242	0.0	0.0	0.000
Disulfoton	15.675	0.0	0.0	0.000
S-demeton	15.708	0.0	0.0	0.000
Dimethoate	16.733	0.0	0.0	0.000
Ronnel	17.125	0.0	0.0	0.000
Merphos-unoxi	17.283	0.0	0.0	0.000
Chlorpyrifos	17.842	0.0	0.0	0.000
Fenthion	18.042	0.0	0.0	0.000
Trichloronate	18.092	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.900	0.0	0.0	0.000
Tokuthion	19.700	0.0	0.0	0.000
Parathion (ethyl)	19.800	0.0	0.0	0.000
Merphos-oxone	19.925	0.0	0.0	0.000
Stirophos	20.550	0.0	0.0	0.000
Bolstar	21.383	0.0	0.0	0.000
Triphenyl phosphate	23.042	0.0	0.0	0.000
Fensulfothion	23.567	0.0	0.0	0.000
Famphur	24.508	0.0	0.0	0.000
EPN	24.708	0.0	0.0	0.000
M-azinphos	25.175	0.0	0.0	0.000
Coumaphos	28.042	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



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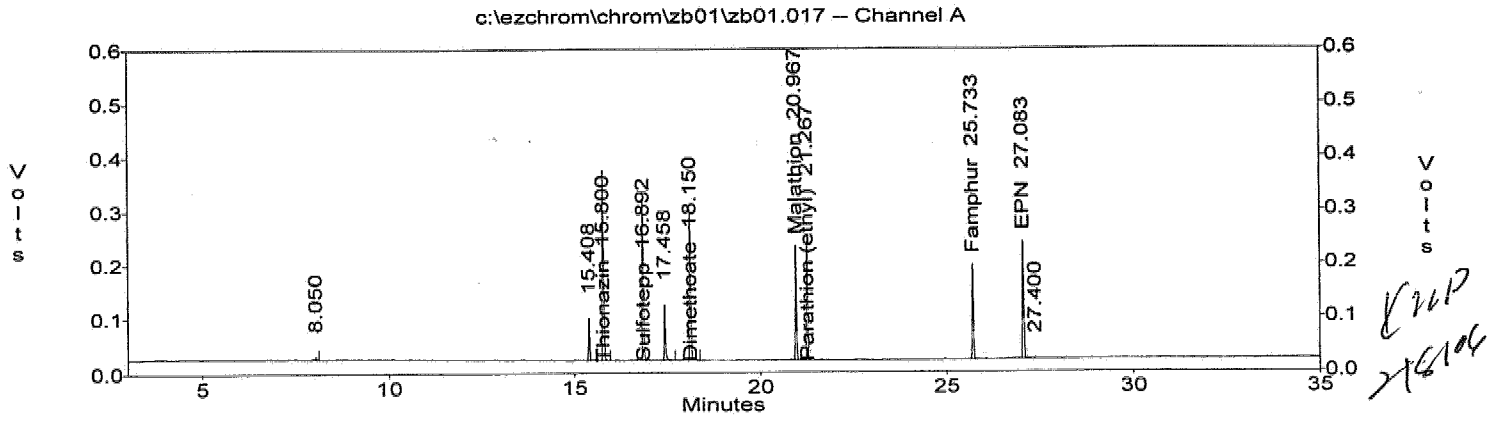
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User : RENEE

Channel A Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Dichlorvos	9.442	0.0	0.0	0.000
Mevinphos	12.892	0.0	0.0	0.000
O-demeton	15.650	0.0	0.0	0.000
Thionazin	15.800	805627.0	598308.3	1.347
Tributyl phosphate	15.850	0.0	0.0	0.000
Ethoprop	16.058	0.0	0.0	0.000
Naled	16.667	0.0	0.0	0.000
Sulfotepp	16.892	675592.0	489253.5	1.381
Phorate	16.975	0.0	0.0	0.000
S-demeton	17.575	0.0	0.0	0.000
Dimethoate	18.150	657001.0	478786.0	1.372
Diazinon	18.367	0.0	0.0	0.000
Disulfoton	18.650	0.0	0.0	0.000
M-parathion	20.142	0.0	0.0	0.000
Ronnel	20.200	0.0	0.0	0.000
Malathion	20.967	482285.0	343088.7	1.406
Chlorpyrifos	21.108	0.0	0.0	0.000
Trichloronate	21.265	0.0	0.0	0.000
Parathion (ethyl)	21.267	496543.0	364800.5	1.361
Fenthion	21.308	0.0	0.0	0.000
Merphos-unoxi	21.583	0.0	0.0	0.000
Stirophos	23.083	0.0	0.0	0.000
Tokuthion	23.292	0.0	0.0	0.000
Merphos-oxone	23.375	0.0	0.0	0.000
Fensulfothion	24.942	0.0	0.0	0.000
Bolstar	25.133	0.0	0.0	0.000
Famphur	25.733	431232.0	315052.0	1.369
Triphenyl phosphate	26.333	0.0	0.0	0.000
EPN	27.083	536302.0	390165.3	1.375
M-azinphos	28.550	0.0	0.0	0.000
Coumaphos	30.350	0.0	0.0	0.000

Channel A Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc. (ppm)
Merphos		0.0	0.0	0.000



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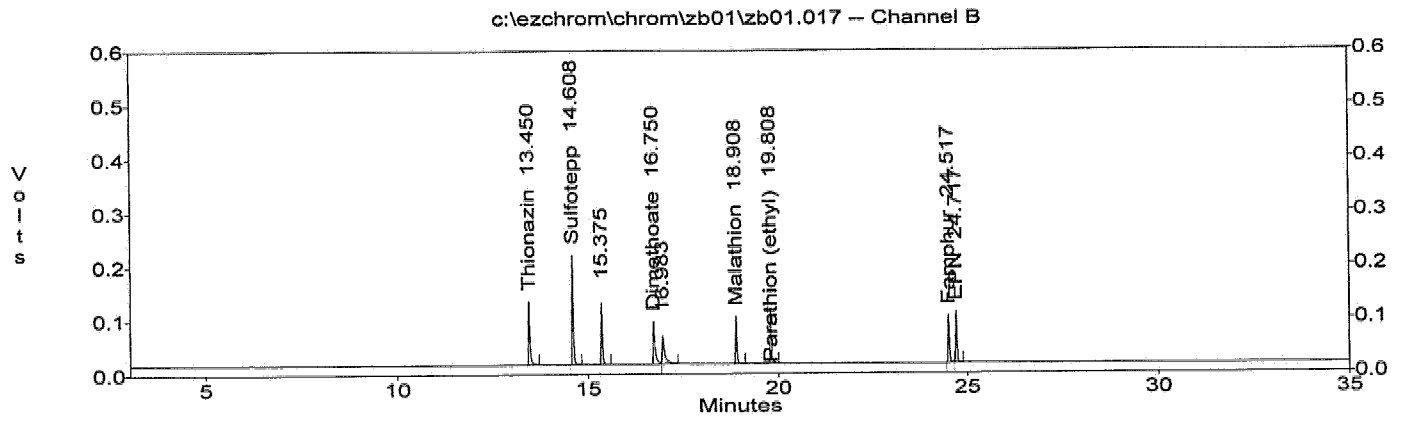
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User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.883	0.0	0.0	0.000
Mevinphos	12.550	0.0	0.0	0.000
O-demeton	13.183	0.0	0.0	0.000
Thionazin	13.450	321304.0	211189.9	1.521
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.458	0.0	0.0	0.000
Sulfotepp	14.608	481632.0	316517.3	1.522
Tributyl phosphate	14.733	0.0	0.0	0.000
Diazinon	15.242	0.0	0.0	0.000
Disulfoton	15.675	0.0	0.0	0.000
S-demeton	15.708	0.0	0.0	0.000
Dimethoate	16.750	272782.0	183280.9	1.488
Ronnel	17.125	0.0	0.0	0.000
Merphos-unoxi	17.283	0.0	0.0	0.000
Chlorpyrifos	17.842	0.0	0.0	0.000
Fenthion	18.042	0.0	0.0	0.000
Trichloronate	18.092	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.908	205744.0	133567.1	1.540
Tokuthion	19.700	0.0	0.0	0.000
Parathion (ethyl)	19.808	263442.0	174435.4	1.510
Merphos-oxone	19.925	0.0	0.0	0.000
Stirophos	20.550	0.0	0.0	0.000
Bolstar	21.383	0.0	0.0	0.000
Triphenyl phosphate	23.042	0.0	0.0	0.000
Fensulfothion	23.567	0.0	0.0	0.000
Famphur	24.517	219047.0	145387.1	1.507
EPN	24.717	226212.0	151889.5	1.489
M-azinphos	25.175	0.0	0.0	0.000
Coumaphos	28.042	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



DAILY CALIBRATIONS

CONTINUE CALIBRATION
ORGANOPHOSPHOROUS COMPOUNDS BY GC

Lab Name : EMAX Inc
Instrument ID : GCTO12 HP-5890
GC Column : RTX-OPPESTICIDES
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: ZB01004B 02/01/2006 16:36
Mid Conc Init LFID & Datetime: ZB01010B 02/01/2006 20:33
Conc Cont LFID & Datetime: ZC31002B 03/31/2006 16:25
Conc Cont LFID & Datetime: ZC31003B 03/31/2006 17:04
CONC UNIT : PPM

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Dichlorvos	8.867	8.851	8.883	1.5	160617.2	221928	1.38	-8		15
Mevinphos	12.542	12.518	12.566	1.5	178377.9	262076	1.47	-2		15
O-Demeton	13.192	13.178	13.206	1.5	57025.0	89964	1.58	5		15
Thionazin	13.450	13.398	13.502	1.5	211189.9	332415	1.57	5		15
Ethoprop	14.017	14.001	14.033	1.5	167093.0	274867	1.64	10		15
Phorate	14.075	14.049	14.101	1.5	205652.5	297552	1.45	-4		15
Naled	14.458	14.444	14.472	1.5	42400.0	76292	1.81	21	*	15
Sulfotepp	14.608	14.594	14.622	1.5	316517.4	497116	1.57	5		15
Diazinon	15.250	15.221	15.279	1.5	159967.8	250737	1.57	4		15
Disulfoton	15.692	15.676	15.708	1.5	157453.1	235515	1.50	-0		15
S-Demeton	15.700	15.634	15.766	1.5	140004.3	240061	1.72	14		15
Dimethoate	16.750	16.734	16.766	1.5	183280.9	295711	1.61	8		15
Ronnel	17.133	17.119	17.147	1.5	151012.7	237322	1.57	5		15
Chlorpyrifos	17.850	17.836	17.864	1.5	146679.0	217554	1.48	-1		15
Fenthion	18.050	18.024	18.076	1.5	155172.8	223283	1.44	-4		15
Trichloronate	18.100	18.074	18.126	1.5	173711.5	266793	1.54	2		15
Methyl Parathion	18.692	18.676	18.708	1.5	179310.6	277237	1.55	3		15
Malathion	18.917	18.888	18.946	1.5	133567.1	217413	1.63	9		15
Tokuthion	19.708	19.684	19.732	1.5	136317.0	222341	1.63	9		15
Parathion	19.808	19.779	19.837	1.5	174435.4	271768	1.56	4		15
Merphos	NA	NA	NA	1.5	154913.2	234499	1.51	1		15
Stirophos	20.558	20.530	20.586	1.5	139749.8	214016	1.53	2		15
Bolstar	21.400	21.372	21.428	1.5	144051.0	233548	1.62	8		15
Fensulfothion	23.575	23.561	23.589	1.5	141661.6	227074	1.60	7		15
Famphur	24.525	24.511	24.539	1.5	145387.2	235686	1.62	8		15
EPN	24.717	24.703	24.731	1.5	151889.5	248024	1.63	9		15
Azinphos-methyl	25.175	25.161	25.189	1.5	110882.9	179284	1.62	8		15
Coumaphos	28.050	28.024	28.076	1.5	118430.5	191799	1.62	8		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Tributyl Phosphate	14.725	14.625	14.825	1.5	194078.1	296320	1.53	2		15
Triphenyl Phosphate	23.050	23.034	23.066	1.5	154307.8	243348	1.58	5		15

EPA 8141 by NPD/FPD
EMAX Analytical Laboratories, Inc.

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Printed : Mar 31, 2006 17:01:14
User : RENEE

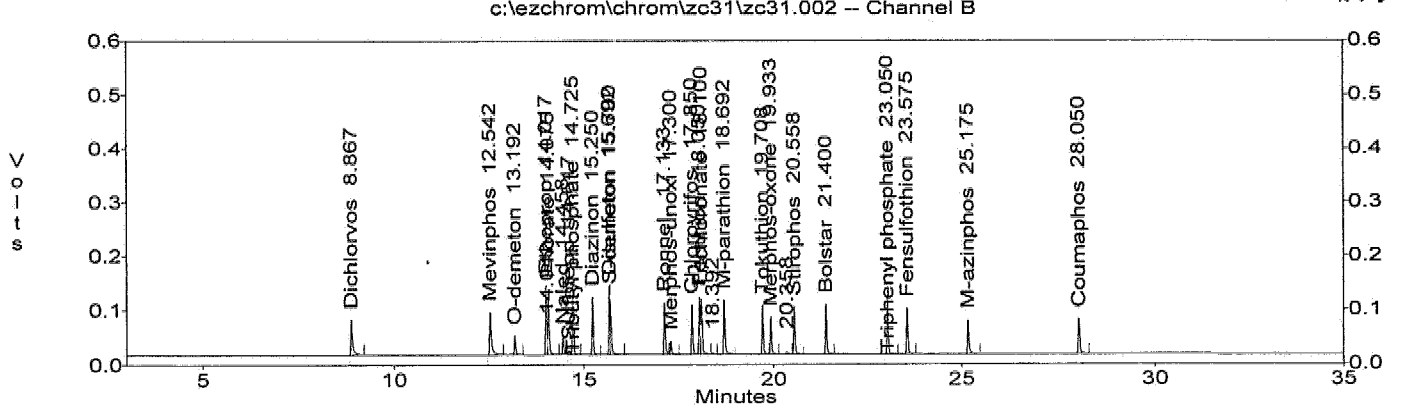
Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.867	221928.0	160617.2	1.382
Mevinphos	12.542	262076.0	178377.9	1.469
O-demeton	13.192	89964.0	57025.0	1.578
Thionazin	13.483	0.0	0.0	0.000
Ethoprop	14.017	274867.0	167093.0	1.645
Phorate	14.075	297552.0	205652.5	1.447
Naled	14.458	76292.0	42400.0	1.811
Sulfotepp	14.617	16023.0	316517.3	0.051
Tributyl phosphate	14.725	296320.0	194078.1	1.527
Diazinon	15.250	250737.0	159967.8	1.567
Disulfoton	15.692	235515.0	157453.1	1.496
S-demeton	15.700	240061.0	140004.3	1.715
Dimethoate	16.808	0.0	0.0	0.000
Ronnel	17.133	237322.0	151012.7	1.572
Merphos-unoxi	17.300	65075.0	139290.3	0.467
Chlorpyrifos	17.850	217554.0	146679.0	1.483
Fenthion	18.050	223283.0	155172.8	1.439
Trichloronate	18.100	266793.0	173711.5	1.536
M-parathion	18.692	277237.0	179310.6	1.546
Malathion	18.942	0.0	0.0	0.000
Tokuthion	19.708	222341.0	136317.0	1.631
Parathion (ethyl)	19.817	0.0	0.0	0.000
Merphos-oxone	19.933	169424.0	170536.1	0.993
Stirophos	20.558	214016.0	139749.8	1.531
Bolstar	21.400	233548.0	144051.0	1.621
Triphenyl phosphate	23.050	243348.0	154307.8	1.577
Fensulfothion	23.575	227074.0	141661.6	1.603
Famphur	24.525	0.0	0.0	0.000
EPN	24.725	0.0	0.0	0.000
M-azinphos	25.175	179284.0	110882.9	1.617
Coumaphos	28.050	191799.0	118430.5	1.620

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		234499.0	154913.2 ~~0.0~~	~~1.461~~ 1.514

2 4/5/06 2 4/5/06



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EMAX Analytical Laboratories, Inc.

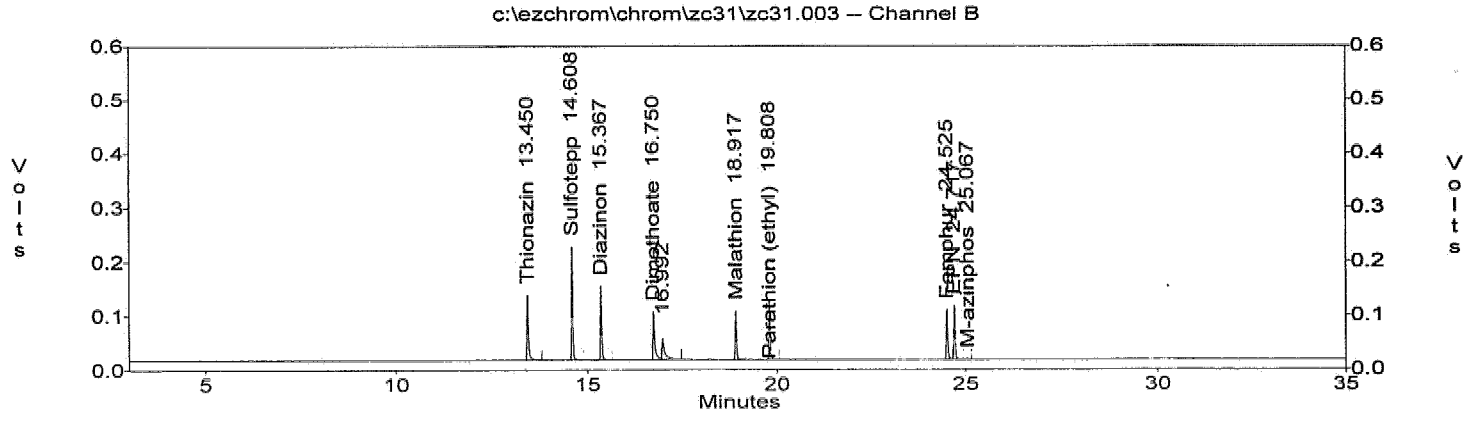
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Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.858	0.0	0.0	0.000
Mevinphos	12.642	0.0	0.0	0.000
O-demeton	13.200	0.0	0.0	0.000
Thionazin	13.450	332415.0	211189.9	1.574
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.500	0.0	0.0	0.000
Sulfotepp	14.608	497116.0	316517.3	1.571
Tributyl phosphate	14.725	0.0	0.0	0.000
Diazinon	15.367	317531.0	159967.8	1.985
Disulfoton	15.692	0.0	0.0	0.000
S-demeton	15.710	0.0	0.0	0.000
Dimethoate	16.750	295711.0	183280.9	1.613
Ronnel	17.133	0.0	0.0	0.000
Merphos-unoxi	17.300	0.0	0.0	0.000
Chlorpyrifos	17.850	0.0	0.0	0.000
Fenthion	18.050	0.0	0.0	0.000
Trichloronate	18.100	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.917	217413.0	133567.1	1.628
Tokuthion	19.708	0.0	0.0	0.000
Parathion (ethyl)	19.808	271768.0	174435.4	1.558
Merphos-oxone	19.983	0.0	0.0	0.000
Stirophos	20.575	0.0	0.0	0.000
Bolstar	21.392	0.0	0.0	0.000
Triphenyl phosphate	23.058	0.0	0.0	0.000
Fensulfothion	23.608	0.0	0.0	0.000
Famphur	24.525	235686.0	145387.1	1.621
EPN	24.717	248024.0	151889.5	1.633
M-azinphos	25.067	6580.0	110882.9	0.059
Coumaphos	28.050	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



CONTINUE CALIBRATION
ORGANOPHOSPHOROUS COMPOUNDS BY GC

Lab Name : EMAX Inc
Instrument ID : GCTO12 HP-5890
GC Column : RTX-OPPESTICIDES
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: ZB01004B 02/01/2006 16:36
Mid Conc Init LFID & Datetime: ZB01010B 02/01/2006 20:33
Conc Cont LFID & Datetime: ZC31017B 04/01/2006 02:14
Conc Cont LFID & Datetime: ZC31018B 04/01/2006 02:54
CONC UNIT : PPM

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Dichlorvos	8.875	8.859	8.891	1.5	160617.2	245966	1.53	2		15
Mevinphos	12.550	12.526	12.574	1.5	178377.9	275810	1.55	3		15
O-Demeton	13.192	13.178	13.206	1.5	57025.0	93622	1.64	9		15
Thionazin	13.450	13.398	13.502	1.5	211189.9	347077	1.64	10		15
Ethoprop	14.017	14.001	14.033	1.5	167093.0	290806	1.74	16	*	15
Phorate	14.083	14.057	14.109	1.5	205652.5	307540	1.50	-0		15
Naled	14.467	14.453	14.481	1.5	42400.0	81378	1.90	27	*	15
Sulfotepp	14.617	14.603	14.631	1.5	316517.4	512322	1.62	8		15
Diazinon	15.250	15.221	15.279	1.5	159967.8	264971	1.66	10		15
Disulfoton	15.692	15.676	15.708	1.5	157453.1	260497	1.65	10		15
S-Demeton	15.708	15.642	15.774	1.5	140004.3	237976	1.70	13		15
Dimethoate	16.758	16.742	16.774	1.5	183280.9	310698	1.70	13		15
Ronnel	17.133	17.119	17.147	1.5	151012.7	246187	1.63	9		15
Chlorpyrifos	17.858	17.844	17.872	1.5	146679.0	222091	1.51	1		15
Fenthion	18.058	18.032	18.084	1.5	155172.8	234309	1.51	1		15
Trichloronate	18.108	18.082	18.134	1.5	173711.5	273287	1.57	5		15
Methyl Parathion	18.692	18.676	18.708	1.5	179310.6	286676	1.60	7		15
Malathion	18.917	18.888	18.946	1.5	133567.1	221345	1.66	10		15
Tokuthion	19.717	19.693	19.741	1.5	136317.0	229607	1.68	12		15
Parathion	19.817	19.788	19.846	1.5	174435.4	277487	1.59	6		15
Merphos	NA	NA	NA	1.5	154913.2	229224	1.48	1		15
Stirophos	20.558	20.530	20.586	1.5	139749.8	223411	1.60	7		15
Bolstar	21.400	21.372	21.428	1.5	144051.0	244468	1.70	13		15
Fensulfothion	23.575	23.561	23.589	1.5	141661.6	236563	1.67	11		15
Famphur	24.525	24.511	24.539	1.5	145387.2	239948	1.65	10		15
EPN	24.725	24.711	24.739	1.5	151889.5	251010	1.65	10		15
Azinphos-methyl	25.183	25.169	25.197	1.5	110882.9	178922	1.61	8		15
Coumaphos	28.058	28.032	28.084	1.5	118430.5	198973	1.68	12		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
Tributyl Phosphate	14.733	14.633	14.833	1.5	194078.1	316719	1.63	9		15
Triphenyl Phosphate	23.058	23.042	23.074	1.5	154307.8	248221	1.61	7		15

EPA 8141 by NPD/FPD
EMAX Analytical Laboratories, Inc.

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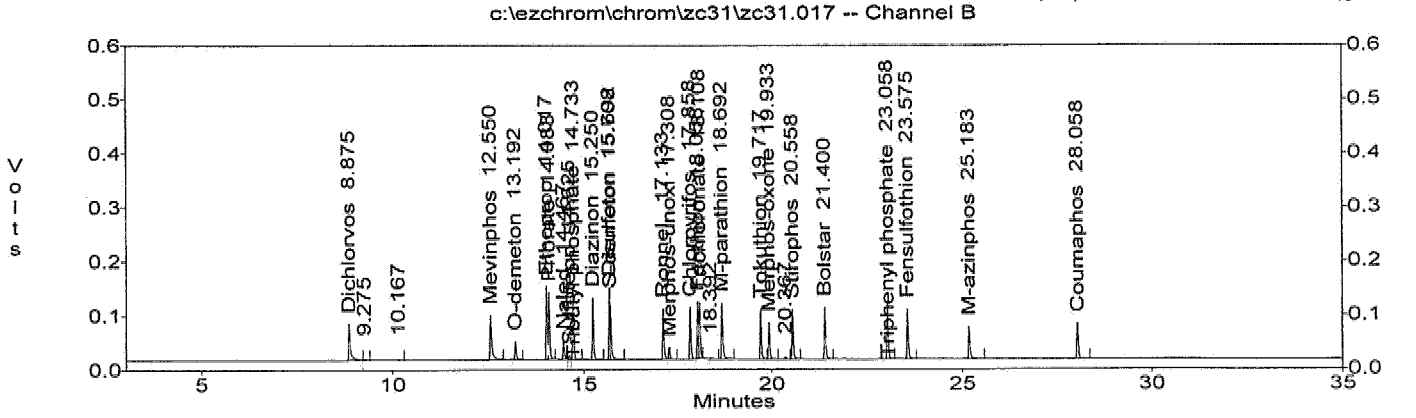
Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.875	245966.0	160617.2	1.531
Mevinphos	12.550	275810.0	178377.9	1.546
O-demeton	13.192	93622.0	57025.0	1.642
Thionazin	13.483	0.0	0.0	0.000
Ethoprop	14.017	290806.0	167093.0	1.740
Phorate	14.083	307540.0	205652.5	1.495
Naled	14.467	81378.0	42400.0	1.899
Sulfotepp	14.625	19670.0	316517.3	0.062
Tributyl phosphate	14.733	316719.0	194078.1	1.632
Diazinon	15.250	264971.0	159967.8	1.656
Disulfoton	15.692	260497.0	157453.1	1.654
S-demeton	15.708	237976.0	140004.3	1.700
Dimethoate	16.808	0.0	0.0	0.000
Ronnel	17.133	246187.0	151012.7	1.630
Merphos-unoxi	17.308	54917.0	139290.3	0.394
Chlorpyrifos	17.858	222091.0	146679.0	1.514
Fenthion	18.058	234309.0	155172.8	1.510
Trichloronate	18.108	273287.0	173711.5	1.573
M-parathion	18.692	286676.0	179310.6	1.599
Malathion	18.942	0.0	0.0	0.000
Tokuthion	19.717	229607.0	136317.0	1.684
Parathion (ethyl)	19.817	0.0	0.0	0.000
Merphos-oxone	19.933	174307.0	170536.1	1.022
Stirophos	20.558	223411.0	139749.8	1.599
Bolstar	21.400	244468.0	144051.0	1.697
Triphenyl phosphate	23.058	248221.0	154307.8	1.609
Fensulfothion	23.575	236563.0	141661.6	1.670
Famphur	24.525	0.0	0.0	0.000
EPN	24.725	0.0	0.0	0.000
M-azinphos	25.183	178922.0	110882.9	1.614
Coumaphos	28.058	198973.0	118430.5	1.680

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		229224.0	154913.2 ~~0.0~~	~~1.416~~ 1.480

RL 4/5/06 RL 4/5/06



EPA 8141 by NPD/FPD
EMAX Analytical Laboratories, Inc.

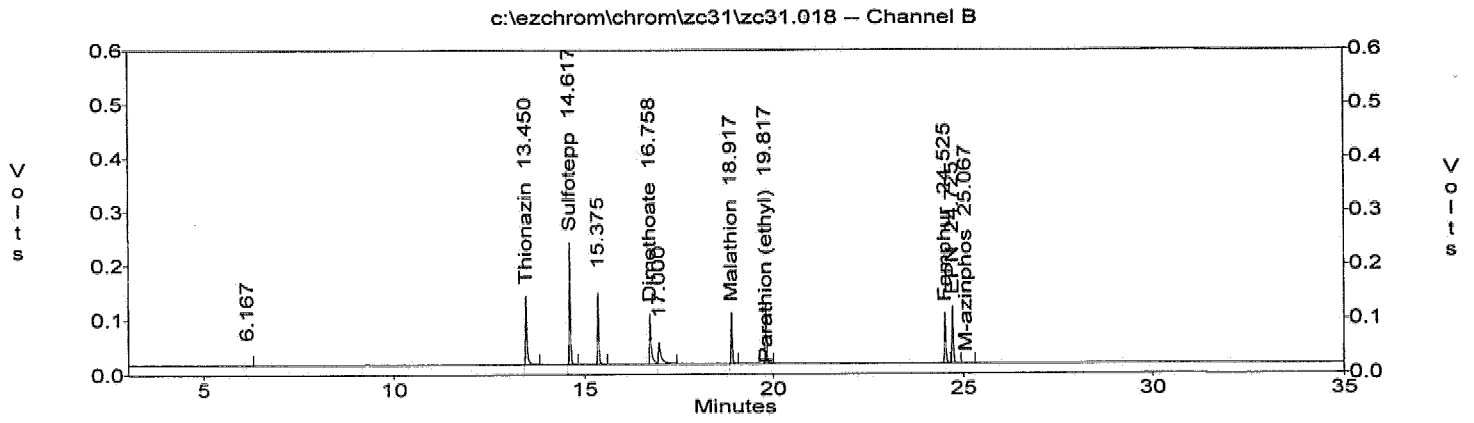
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User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.858	0.0	0.0	0.000
Mevinphos	12.642	0.0	0.0	0.000
O-demeton	13.200	0.0	0.0	0.000
Thionazin	13.450	347077.0	211189.9	1.643
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.500	0.0	0.0	0.000
Sulfotepp	14.617	512322.0	316517.3	1.619
Tributyl phosphate	14.725	0.0	0.0	0.000
Diazinon	15.250	0.0	0.0	0.000
Disulfoton	15.692	0.0	0.0	0.000
S-demeton	15.710	0.0	0.0	0.000
Dimethoate	16.758	310698.0	183280.9	1.695
Ronnel	17.133	0.0	0.0	0.000
Merphos-unoxi	17.300	0.0	0.0	0.000
Chlorpyrifos	17.850	0.0	0.0	0.000
Fenthion	18.050	0.0	0.0	0.000
Trichloronate	18.100	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.917	221345.0	133567.1	1.657
Tokuthion	19.708	0.0	0.0	0.000
Parathion (ethyl)	19.817	277487.0	174435.4	1.591
Merphos-oxone	19.983	0.0	0.0	0.000
Stirophos	20.575	0.0	0.0	0.000
Bolstar	21.392	0.0	0.0	0.000
Triphenyl phosphate	23.058	0.0	0.0	0.000
Fensulfothion	23.608	0.0	0.0	0.000
Famphur	24.525	239948.0	145387.1	1.650
EPN	24.725	251010.0	151889.5	1.653
M-azinphos	25.067	5402.0	110882.9	0.049
Coumaphos	28.050	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



CONTINUE CALIBRATION
ORGANOPHOSPHOROUS COMPOUNDS BY GC

Lab Name : EMAX Inc
Instrument ID : GCTO12 HP-5890
GC Column : RTX-OPPESTICIDES
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: ZB01004B 02/01/2006 16:36
Mid Conc Init LFID & Datetime: ZB01010B 02/01/2006 20:33
Conc Cont LFID & Datetime: ZC31028B 04/01/2006 09:27
Conc Cont LFID & Datetime: ZC31029B 04/01/2006 10:06
CONC UNIT : PPM

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Dichlorvos	8.867	8.851	8.883	1.5	160617.2	235623	1.47	-2		15
Mevinphos	12.542	12.518	12.566	1.5	178377.9	271654	1.52	2		15
O-Demeton	13.192	13.178	13.206	1.5	57025.0	93282	1.64	9		15
Thionazin	13.450	13.398	13.502	1.5	211189.9	323829	1.53	2		15
Ethoprop	14.017	14.001	14.033	1.5	167093.0	289627	1.73	16	*	15
Phorate	14.083	14.057	14.109	1.5	205652.5	301921	1.47	-2		15
Naled	14.467	14.453	14.481	1.5	42400.0	76885	1.82	21	*	15
Sulfotepp	14.617	14.603	14.631	1.5	316517.4	489654	1.55	3		15
Diazinon	15.250	15.221	15.279	1.5	159967.8	255941	1.60	7		15
Disulfoton	15.692	15.676	15.708	1.5	157453.1	223263	1.42	-5		15
S-Demeton	15.700	15.634	15.766	1.5	140004.3	248686	1.78	18	*	15
Dimethoate	16.758	16.742	16.774	1.5	183280.9	291734	1.59	6		15
Ronnel	17.133	17.119	17.147	1.5	151012.7	240469	1.59	6		15
Chlorpyrifos	17.858	17.844	17.872	1.5	146679.0	224316	1.53	2		15
Fenthion	18.050	18.024	18.076	1.5	155172.8	249576	1.61	7		15
Trichloronate	18.100	18.074	18.126	1.5	173711.5	254268	1.46	-2		15
Methyl Parathion	18.692	18.676	18.708	1.5	179310.6	284744	1.59	6		15
Malathion	18.917	18.888	18.946	1.5	133567.1	211333	1.58	5		15
Tokuthion	19.708	19.684	19.732	1.5	136317.0	227470	1.67	11		15
Parathion	19.817	19.788	19.846	1.5	174435.4	268868	1.54	3		15
Merphos	NA	NA	NA	1.5	154913.2	246209	1.59	6		15
Stirophos	20.558	20.530	20.586	1.5	139749.8	216030	1.55	3		15
Bolstar	21.400	21.372	21.428	1.5	144051.0	241959	1.68	12		15
Fensulfothion	23.575	23.561	23.589	1.5	141661.6	223608	1.58	5		15
Famphur	24.525	24.511	24.539	1.5	145387.2	227967	1.57	5		15
EPN	24.725	24.711	24.739	1.5	151889.5	241610	1.59	6		15
Azinphos-methyl	25.175	25.161	25.189	1.5	110882.9	181545	1.64	9		15
Coumaphos	28.050	28.024	28.076	1.5	118430.5	190010	1.60	7		15

SURROGATE	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Tributyl Phosphate	14.725	14.625	14.825	1.5	194078.1	300181	1.55	3		15
Triphenyl Phosphate	23.050	23.034	23.066	1.5	154307.8	239992	1.55	4		15

EPA 8141 by NPD/FPD
EMAX Analytical Laboratories, Inc.

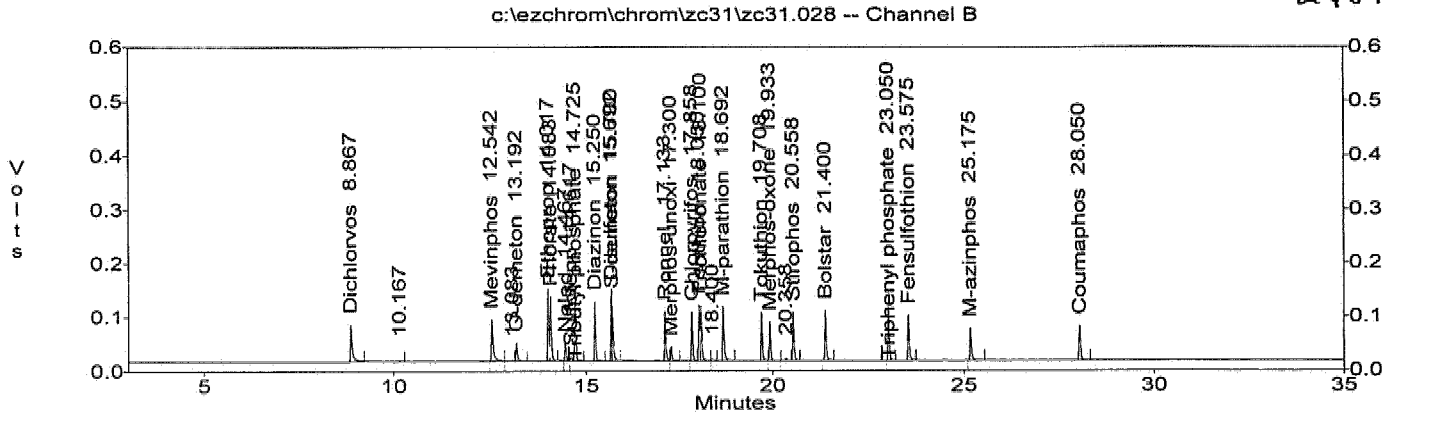
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Printed : Apr 05, 2006 13:17:56
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.867	235623.0	160617.2	1.467
Mevinphos	12.542	271654.0	178377.9	1.523
O-demeton	13.192	93282.0	57025.0	1.636
Thionazin	13.483	0.0	0.0	0.000
Ethoprop	14.017	289627.0	167093.0	1.733
Phorate	14.083	301921.0	205652.5	1.468
Naled	14.467	76885.0	42400.0	1.821
Sulfotepp	14.617	17029.0	316517.3	0.054
Tributyl phosphate	14.725	300181.0	194078.1	1.547
Diazinon	15.250	255941.0	159967.8	1.600
Disulfoton	15.692	223263.0	157453.1	1.418
S-demeton	15.700	248686.0	140004.3	1.776
Dimethoate	16.808	0.0	0.0	0.000
Ronnel	17.133	240469.0	151012.7	1.592
Merphos-unoxi	17.300	68766.0	139290.3	0.494
Chlorpyrifos	17.858	224316.0	146679.0	1.529
Fenthion	18.050	249576.0	155172.8	1.608
Trichloronate	18.100	254268.0	173711.5	1.464
M-parathion	18.692	284744.0	179310.6	1.588
Malathion	18.942	0.0	0.0	0.000
Tokuthion	19.708	227470.0	136317.0	1.669
Parathion (ethyl)	19.817	0.0	0.0	0.000
Merphos-oxone	19.933	177443.0	170536.1	1.041
Stirophos	20.558	216030.0	139749.8	1.546
Bolstar	21.400	241959.0	144051.0	1.680
Triphenyl phosphate	23.050	239992.0	154307.8	1.555
Fensulfothion	23.575	223608.0	141661.6	1.578
Famphur	24.525	0.0	0.0	0.000
EPN	24.725	0.0	0.0	0.000
M-azinphos	25.175	181545.0	110882.9	1.637
Coumaphos	28.050	190010.0	118430.5	1.604

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		246209.0	15493.7 ~~0.0~~ 2 4 15 06	~~1.534~~ 1.588 2 4 15 06



EPA 8141 by NPD/FPD
EMAX Analytical Laboratories, Inc.

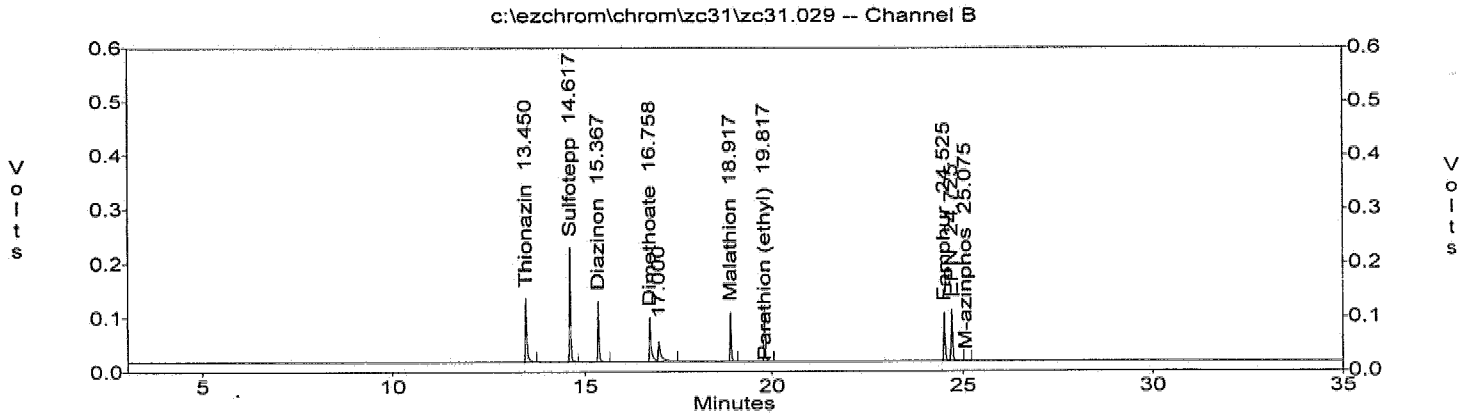
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Printed : Apr 05, 2006 13:15:13
User : RENEE

Channel B Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Dichlorvos	8.858	0.0	0.0	0.000
Mevinphos	12.642	0.0	0.0	0.000
O-demeton	13.200	0.0	0.0	0.000
Thionazin	13.450	323829.0	211189.9	1.533
Ethoprop	14.017	0.0	0.0	0.000
Phorate	14.075	0.0	0.0	0.000
Naled	14.500	0.0	0.0	0.000
Sulfotepp	14.617	489654.0	316517.3	1.547
Tributyl phosphate	14.725	0.0	0.0	0.000
Diazinon	15.367	276032.0	159967.8	1.726
Disulfoton	15.692	0.0	0.0	0.000
S-demeton	15.710	0.0	0.0	0.000
Dimethoate	16.758	291734.0	183280.9	1.592
Ronnel	17.133	0.0	0.0	0.000
Merphos-unoxi	17.300	0.0	0.0	0.000
Chlorpyrifos	17.850	0.0	0.0	0.000
Fenthion	18.050	0.0	0.0	0.000
Trichloronate	18.100	0.0	0.0	0.000
M-parathion	18.683	0.0	0.0	0.000
Malathion	18.917	211333.0	133567.1	1.582
Tokuthion	19.708	0.0	0.0	0.000
Parathion (ethyl)	19.817	268868.0	174435.4	1.541
Merphos-oxone	19.983	0.0	0.0	0.000
Stirophos	20.575	0.0	0.0	0.000
Bolstar	21.392	0.0	0.0	0.000
Triphenyl phosphate	23.058	0.0	0.0	0.000
Fensulfothion	23.608	0.0	0.0	0.000
Famphur	24.525	227967.0	145387.1	1.568
EPN	24.725	241610.0	151889.5	1.591
M-azinphos	25.075	5832.0	110882.9	0.053
Coumaphos	28.050	0.0	0.0	0.000

Channel B Group Results

Peak Name	Ret.Time	Area	Average RF	ESTD Conc.(ppm)
Merphos		0.0	0.0	0.000



ANALYTICAL LOG

ANALYSIS LOG FOR ORGANOPHOSPHORUS

SOP ☑EMAX-8141 ☐ Revision No. 1 Start Date 2/1/06 Time 1437 Ending Date 2/2/06 Time 0544 Book # A12-004

ANALYTICAL BATCH ZB01014

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	ZB01.001	IB12B01001				
	2	NP12B0111 2.2.06				
	3	2				
	4	3				
	5	4				
	6	5				
	7	6				
	8	7				
	9	8				
	10	9				
	11	10				
	12	11				
	13	12				
	14	INP12B01001				✓
	15	2				✓
	16	3				
	17	4				✓
NPA003W	18	NPA003WB	1		X	
	19	WC				
	20	WC				
	21	06A100-01				
	22	01M				
	23	015				
	24	02				
	25	03				
	26	04				
	27	05				
↓	28	06	↓		X	

Instrument No:	012

INITIAL CALIBRATION REFERENCE

ICAL ID	Batch	Date
NP12B01	ZB01	2/1/06

Standards

Name	ID	Conc. (mg/L)
ICAL A	551B-04-20-2	10
ICAL B	21-2	10
ICV A	19-3	10
ICV B	22-2	10
ICV Naled	551B-04-23-1	10
Hex	45059	NA

Column	1: ☐ RTX CLPEST II ☑ RTX-OPP 2
	2: ☑ RTX OP PESTICIDES ☐

Disk Archival

Name	Location

Analyzed By

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EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

ANALYSIS LOG FOR ORGANOPHOSPHORUS

SOP ☑ EMAX-8141 ☐ Revision No. 1 Start Date 2/1/06 Time 1437 Ending Date 2/2/06 Time 0944 Book # A12-004

ANALYTICAL BATCH ZB01

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	ZB01_029	IB12B0100 2				
	↓ 30	CNP12B0100 2A				

Instrument No:	012

INITIAL CALIBRATION REFERENCE

ICAL ID	Batch	Date
MP12B01	ZB01	2/1/06

Standards

Name	ID	Conc. (mg/L)
Hex	4505	NR
ZeoLA	SSIB-04-20-2	10

Column 1: ☐ RTX CLPEST II ☑ RTX-CLP2

2: ☑ RTX OP PESTICIDES ☐

Disk Archival

Name	Location

Analyzed By KZ

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ANALYSIS LOG FOR ORGANOPHOSPHORUS

SOP ☑ EMAX-8141 ☐ Revision No. 1 Start Date 3/31/06 Time 11:43 Ending Date 4/1/06 Time 10:06 Book # A12-004

ANALYTICAL BATCH ZC310 2

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix S	Matrix W	Notes
	ZC31.001	IB12B01017				
	2	CNP12B01017A				
	3	CNP12B01017B				
NPC005W	4	NPC005WB	1		X	
	5	5 WL				
	6	5 WC				
	7	6 WL				
	8	6 WC				
	9	06C284-01				
NPC007W	10	NPC007WB ⊻ 4/3/06				
	11	7 WL				
	12	7 WC				
	13	8 WL				
	14	8 WC				
	15	06C239-01			X	
	16	IB12B01018				
	17	CNP12B01018A				
	18	CNP12B01018B				
	19	MDLVERIF_-01	1	X		
	20	-02				
	21	-03				
	22	-04		X		
	23	-05			X	
	24	-06				
	25	-07				
	26	-08			X	
	27	IB12B01019				
	28	CNP12B01019A				
	29	CNP12B01019B				

Instrument No:	012

INITIAL CALIBRATION REFERENCE

ICAL ID	Batch	Date
NPW2B01	ZB07	2/1/06

Standards

Name	ID	Conc. (mg/L)
Hex	4505	NR
ICALB	551B-04-23-2	10
ICALB	↓ -3	10

Column	1: ☐ RTX CLPEST II ☑ RTX-5MS 2
	2: ☑ RTX OP PESTICIDES ☐

Disk Archival

Name	Location

Analyzed By KZ

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EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

EXTRACTION LOG

EXTRACTION LOG FOR ORGANOPHOSPHORUS

SOP [X] EMAX-8141 [X] EMAX-3520C [ ] EMAX-3545 Matrix WATER Starting Date 3/27/06 Time 11:00 Ending Date 3/28/06 Time 5:00 Book # EOP-003

	Sample Prep ID	Lab Sample ID	Sample Amount (g / ml)	pH	Extract Volume (ml)	Clean-up [G] [F] [A] [S]	Notes
01		NPC005-WB	1000	-	1		
02		-WL (A)	1000	-	1		
03		-WC (A)	1000	-	1		
04		NPC006-WL	(B) 1000	-	1		
05		-WC	(B) 1000	-	1		SPIKE A SPIKE B
06		MDL verif-05	(A) 1000	-	1		0.05 ml
07		-06	(A) 1000	-	1		0.10 ml
08		-07	(B) 1000	-	1		0.05 ml
09		-08	(B) 1000	-	1		0.10 ml
10		06C204-01	1060	7	1		
11							
12		3/28/06	JM				
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

BATCH * NPC005-WS

Standards	ID	Amount (ml)
Surrogate	8818-04-19-2	0.15
LCS/MS-A	8818-04-19-3	0.15
LCS/MS-B	8818-04-22-2	0.15
LCS/MS-		
LCS/MS-		

Reagent	Lot# / ID
CH_2Cl_2	45342
Hexane	45059
Acetone	-
Na_2SO_4	45045
H_2SO_4	-
NaOH	-
Hydromatrix	

Concentrator Water Bath Temp.(°C)

#	Water Bath Temp.(°C)	T1
1	35	35
2	35	35
3		
4		
5	60	60

Comments: Test thermometer = T1

Prepared By: JM Standard Added By: ML

Witnessed By: JM Checked By: ML

Extract Location: E04-8141 Received By:

Disposal Date: Disposed By:

Clean-up Legend :[G]=GPC [A]=Acid [F]=Florisil [S]=Silica

MAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

WET CHEMICAL ANALYSES

SDG#: 06C204

CASE NARRATIVE

CLIENT: ENSR

PROJECT: UPGRADIENT INVESTIGATION, TRONOX

SDG: 06C204

METHOD 377.1
SULFITE

One (1) water sample was received on 03/23/06 for Sulfite analysis by Method 377.1 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at the reporting limit.

3. **Lab Control Sample**

   Lab control result was within QC limit.

4. **Duplicate**

   Sample C204-01 was analyzed for duplicate. %RPD was within QC limit.

5. **Sample Analysis**

   Sample was analyzed according to the prescribed QC procedures. All criteria were met.

METHOD 377.1
SULFITE

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX
Batch No. : 06C204

Matrix : WATER
Instrument ID : I61

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	SFC002WB	ND	1	NA	2	1	03/23/0610:20	NA	SFC002W-01	NA	SFC002W	NA	NA
LCS1W	SFC002WL	42.8	1	NA	2	1	03/23/0610:22	NA	SFC002W-02	NA	SFC002W	NA	NA
M-120	C204-01	ND	1	NA	2	1	03/23/0610:24	NA	SFC002W-03	NA	SFC002W	03/22/06	03/23/06
M-120DUP	C204-01D	ND	1	NA	2	1	03/23/0610:26	NA	SFC002W-04	NA	SFC002W	03/22/06	03/23/06

8992

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
METHOD: METHOD 377.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 06C204 DATE RECEIVED: NA
SAMPLE ID: LCS1W DATE EXTRACTED: NA
CONTROL NO.: SFC002WL DATE ANALYZED: 03/23/06 10:22

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	LCS RSLT (mg/L)	LCS % REC	QC LIMIT (%)
Sulfite	ND	44.80	42.80	96	80-120

0003

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
METHOD: METHOD 377.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 06C204 DATE RECEIVED: 03/23/06
SAMPLE ID: M-120DUP DATE EXTRACTED: NA
CONTROL NO.: C204-01D DATE ANALYZED: 03/23/06 10:26

ACCESSION:

PARAMETER	SAMPLE (mg/L)	DUP. SAMPLE (mg/L)	RPD (%)	RPD LIMIT (%)
Sulfite	ND	ND	0	20

9004

EMAX LABORATORIES, INC.

ANALYSIS FOR SULFITE (SO_3)

SOP: EMAX-377.1 Rev. 1 Analytical Batch: SFC002W Book #: ASF-003 Page: 30

Data File Name	Lab Sample ID	Sample Amount g	Sample Amount V_e (ml)	Sample Amount V_A (ml)	Sample Amount %Moisture	Volume of Titant V_t (ml)	Analysis Date mm:dd:yy	Analysis Time hh:mm:ss	SO_3	Sample Result	Unit	LCS Recovery (%)	MS Recovery (%)	RPD (%)
SFC002W 01	SFC002WB		50	50		0.02	04/11/06	17:56:44	0	ND	mg/L			
SFC002W 02	SFC002WL		50	50		4.3	04/11/06	17:56:54	42.8	42.8	mg/L	96		
SFC002W 03	C204-01		50	50		0.1	04/11/06	17:57:01	0.8	ND	mg/L			0
SFC002W 04	C204-01D		50	50		0.1	04/11/06	17:57:01	0.8	ND	mg/L			

STANDARDIZATION

V_{Na2SO3} (ml)	$V_{KI-KIO3}$ (ml)	DATE	TIME	Titrant KI-KIO_3 (N)
10	10	04/11/06	17:56:31	0.01250
10	10	04/11/06	17:56:32	0.01250
10	10	04/11/06	17:56:32	0.01250
Average Normality of KI-KIO_3 (N_t)=				0.01250

$$N_{KI \bullet KIO_3} = \frac{(N * V)_{Na_2SO_3}}{V_{KI \bullet KIO_3}}$$

MISCELLANEOUS INFORMATION

Standard	Concentration			
Titrant, KI/KIO_3			0.0125	N
$Na_2S_2O_3$			0.0125	N
LCS [WATER | SOIL]		44.8	444	mg/L | mg/Kg
MDL [WATER | SOIL]		1	10	mg/L | mg/Kg
RL		2	20	mg/L | mg/Kg

$$SO_3(mg/L) = \frac{(V_t - V_b)(N_t)(40{,}000)}{S}$$

Comments:

DATA WAS ENTERED FOR CALCULATION PURPOSE ONLY. ACTUAL ANALYSIS DATE IS 3/23/06.

Analyzed By: K.N 4/04/06

8005

ANALYSIS LOG FOR SULFITE

SOP ☑ EMAX-377.1 ☐ Starting Date 3/23/06 Time 10:20 Ending Date 3/23/06 Time 10:26 Book # ASF-003

ANALYTICAL BATCH * SFC002W

	Data File Name	Lab Sample ID	Time	Sample Amt. (ml)	Vol of KI/KIO3 (ml)	Sulfite (mg/L)	Notes
* 1		SFC002WB	10:20	50	0.02	ND	
* 2		↓ WL	↓ 22	↓	4.30	42.8	
* 3		C204-01	↓ 24		~~0.18~~ 0.10	~~7.98~~ 0.8 ≈ ND	
* 4		↓ 01D	↓ 26		~~0.18~~ 0.10	KW 3/27/06 0.8 ≈ ND	
* 5							
* 6							
* 7							
* 8							
* 9							
* 10							
* 11							
* 12							
* 13							
* 14							
* 15					KW 3/27/06		
* 16							
* 17							
* 18							
* 19							
* 20							
* 21							
* 22							
* 23							
* 24							
* 25							
* 26							
* 27							
* 28							
* 29							
* 30							

Standard	ID	Conc. (mg/L)
LCS	SW3B-02-825	5ml of 44.4 mg/L
KI/KIO$_3$ solution	SW7B-07-071	0.0125N
Indicator	SW7A-06-190	N/A
Na_2SO_3 standard	SW3B-02-824	0.0125N
Sulfamic Acid	SW1A-02-673	Assay
H_2SO_4 (1:1)	SW7B-06-392A	1:9

STANDARDIZATION

Vol. of 0.0125N Na2S2O3 (ml)	Volume of KI/KIO$_3$ (ml)	Conc. Of Sulfite (N)
10	10	0.0125
10	10	0.0125
10	10	0.0125

Comments:

Analyzed By: KW

This page is checked during data review.

EMAX LABORATORIES, INC., 1835 205th Street, Torrance, CA 90501

8005

CASE NARRATIVE

CLIENT: **ENSR**

PROJECT: **UPGRADIENT INVESTIGATION, TRONOX**

SDG: **06C204**

METHOD 1010
IGNITABILITY

One (1) water sample was received on 03/23/06 for Ignitability analysis by Method 1010 in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Method", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

3. Duplicate

Duplicate sample was not designated in this SDG.

4. Sample Analysis

Sample was analyzed according to the prescribed QC procedures. All criteria were met.

SW1010
IGNITABILITY

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX
Batch No. : 06C204

Matrix : WATER
Instrument ID : I28

SAMPLE ID	EMAX SAMPLE ID	RESULTS (oC)	DLF	MOIST	RL (oC)	MDL (oC)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
LCS1W	IGC008WL	28.8	1	NA	NA	NA	03/24/0610:00	NA	IGC008W-01	NA	IGC008W	NA	NA
LCD1W	IGC008WC	28.6	1	NA	NA	NA	03/24/0610:10	NA	IGC008W-02	NA	IGC008W	NA	NA
M-120	C204-01	>60	1	NA	NA	NA	03/24/0611:10	NA	IGC008W-08	NA	IGC008W	03/22/06	03/23/06

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
METHOD: SW1010
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 06C204
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: IGC008WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 03/24/06 10:00/10:10

ACCESSION:

PARAMETER	SPIKE AMT (oC)	BS RSLT (oC)	DIFFERENCE (oC)	SPIKE AMT (oC)	BSD RSLT (oC)	DIFFERENCE (oC)	QC LIMIT (oC)
Ignitability	29.00	28.80	- 0.2	29.00	28.60	- 0.4	+/- 0.6

0909

ANALYSIS LOG FOR IGNITABILITY (FLASH POINT)

SOP ☑ EMAX-1010 Revision No. 0 ☐ Barometric Pressure in Hg: 30.00 Book # AIG-002

Start Date: 8/19/05 Time: 14:00 End Date: 8/19/05 Time: 14:50

ANALYTICAL BATCH * IG Hood WL

Data File Name		Lab Sample ID	Time	T_c	T_1 (on 8/19/05)	T_i	T_f	Notes
	*01	IG Hood WL	14:00	~~320~~ °C	20 °C	5 °C	28.8°C	
	*02	LCS1	14:10	3 °C	20 °C	5 °C	28.6°C	
	*03	LCS2	14:20	3 °C	20 °C	5 °C	29.0°C	
	*04	LCS3	14:30	3 °C	20 °C	5 °C	28.8°C	
	*05	LCS4	14:40	3 °C	20 °C	5 °C	28.8°C	
	*06	IPV	14:50	3 °C	18 °C	18 °C	45.0°C	
	*07							
	*08							
	*09							
	*10							
	*11							
	*12							
	*13							
	*14							
	*15							
	*16							
	*17							
	*18							
	*19							
	*20							
	*21							
	*22							
	*23							
	*24							
	*25							
	*26						RM 8/19/05	

Instrument No	28

Standard	LOT #/ID
p-Xylene LCS	SW7A-06-157

TV: 29.0°C ± 0.6°C

CALIBRATION		
Test Flame	4	mm
Stirrer	103	rpm
Therm. CF	0	°C

T_c	Temp. of empty cup
T_1	Temp @ 1st Flame Test
T_i	Test Increment
T_f	Temp @Flash Point

Comments

IPV : SW7A-06-096
TV: 46°C ± 2.5°C

Analyzed by: RM

This page is checked during data review process.

MAXXAM LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

8010

ANALYSIS LOG FOR IGNITABILITY (FLASH POINT)

SOP ☑ EMAX-1010 Revision No. 0 ☐ **Barometric Pressure in Hg:** 30.09 **Book # AIG-002**

Start Date: 3/24/06 **Time:** 10:00 **End Date:** 3/24/06 **Time:** 11:10

ANALYTICAL BATCH * IG Cook

Data File Name		Lab Sample ID	Time	T_c	T_1	T_i	T_f	Notes
	*01	IG Cook	10:00	3°C	20°C	5°C	28.8°C	
	*02	SWC	10:10	3°C	20°C	5°C	28.6°C	
	*03	C577-01	10:20	3°C	20°C	5°C	46.4	
	*04	-01D	10:30	3°C	20°C	5°C	47.0	
	*05	C163-01	10:40	3°C	20°C	10°C	>60°C	
	*06	-02	10:50	3°C	20°C	10°C	>60°C	
	*07	-03	11:00	3°C	20°C	10°C	>60°C	
	*08	C204-01	11:10	3°C	20°C	10°C	>60°C	
	*09							
	*10							
	*11							
	*12							
	*13							
	*14							
	*15							
	*16							
	*17							
	*18							
	*19							
	*20							
	*21							
	*22							
	*23							
	*24							
	*25							
	*26							

Instrument No	28

Standard	LOT #/ID
p-Xylene LCS	SWA-06-157

TV: 29.0°C ± 0.6°C

CALIBRATION		
Test Flame	4	mm
Stirrer	102	rpm
Therm. CF	0	°C

T_c	Temp. of empty cup
T_1	Temp @ 1st Flame Test
T_i	Test Increment
T_f	Temp @Flash Point

Comments

Note Samples # C163-01 to 05 & C204-01 were attained max. Temp. of 70°C

Analyzed by: RM

This page is checked during data review process.

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

8011

CASE NARRATIVE

CLIENT: **ENSR**

PROJECT: **UPGRADIENT INVESTIGATION, TRONOX**

SDG: **06C204**

METHOD 9056
ORTHOPHOSPHATE-P

One (1) water sample was received on 03/23/06 for Orthophosphate-P analysis by Method 9056 in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Method", SW846, 3rd edition.

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Duplicate**

   Duplicate sample was not designated in this SDG.

5. **Matrix Spike**

   MS sample was not designated in this SDG.

6. **Sample Analysis**

   Sample was analyzed according to the prescribed QC procedures. All criteria were met.

SAMPLE RESULTS

METHOD 9056
ORTHOPHOSPHATE-P

Client : ENSR
Project : UPGRADIENT INVESTIGATION, TRONOX
Batch No. : 06C204

Matrix : WATER
Instrument ID : 100

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICC039WB	ND	1	NA	.5	.25	03/23/0612:34	NA	AC24-03	AC24-01	ICC039W	NA	NA
LCS1W	ICC039WL	5.21	1	NA	.5	.25	03/23/0612:52	NA	AC24-04	AC24-01	ICC039W	NA	NA
LCD1W	ICC039WC	5.2	1	NA	.5	.25	03/23/0613:10	NA	AC24-05	AC24-01	ICC039W	NA	NA
M-120	C204-01	ND	1	NA	.5	.25	03/23/0615:01	NA	AC24-10	AC24-01	ICC039W	03/22/06	03/23/06

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C204
METHOD: METHOD 9056

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICC039WB	ICC039WL	ICC039WC		
LAB FILE ID:	AC24-03	AC24-04	AC24-05		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	03/23/0612:34	03/23/0612:52	03/23/0613:10	DATE RECEIVED:	NA
PREP. BATCH:	ICC039W	ICC039W	ICC039W		
CALIB. REF:	AC24-01	AC24-01	AC24-01		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
ORTHOPHOSPHATE-P	ND	5	5.21	104	5	5.2	104	0	90-110	20

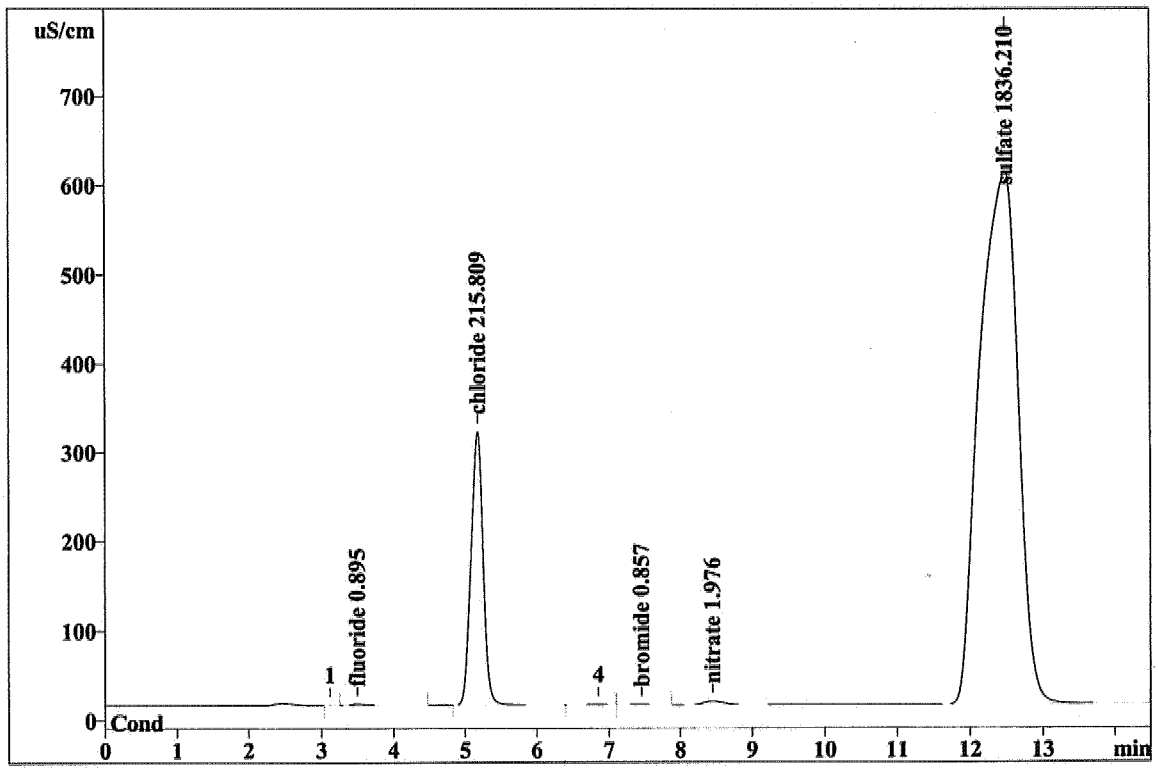
351

Report date: 3/23/2006 3:15:36 PM
Printed by: Cherry Dam

Ident: AC24-10 C204-01
Analysis from: 3/23/2006 3:01:10 PM
File: Q3231501.CHW Last save: 3/23/2006 3:15:36 PM

Method: IC100-B20.mtw Last save: 3/22/2006 10:26:42 P
Run operator: Cherry Dam
Analysis number: 13518

SAMPLE:
:
Vial number: 10
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	3.12	0.04	0.339	0.000	
2	3.49	1.18	21.300	0.895	fluoride
3	5.18	306.20	3575.266	215.809	chloride
4	6.85	0.29	5.577	0.000	
5	7.45	0.26	5.964	0.857	bromide
6	8.45	4.14	79.541	1.976	nitrate
7	12.49	597.91	21844.109	1836.210	sulfate
7	14.50	910.03	25532.096	2055.747	

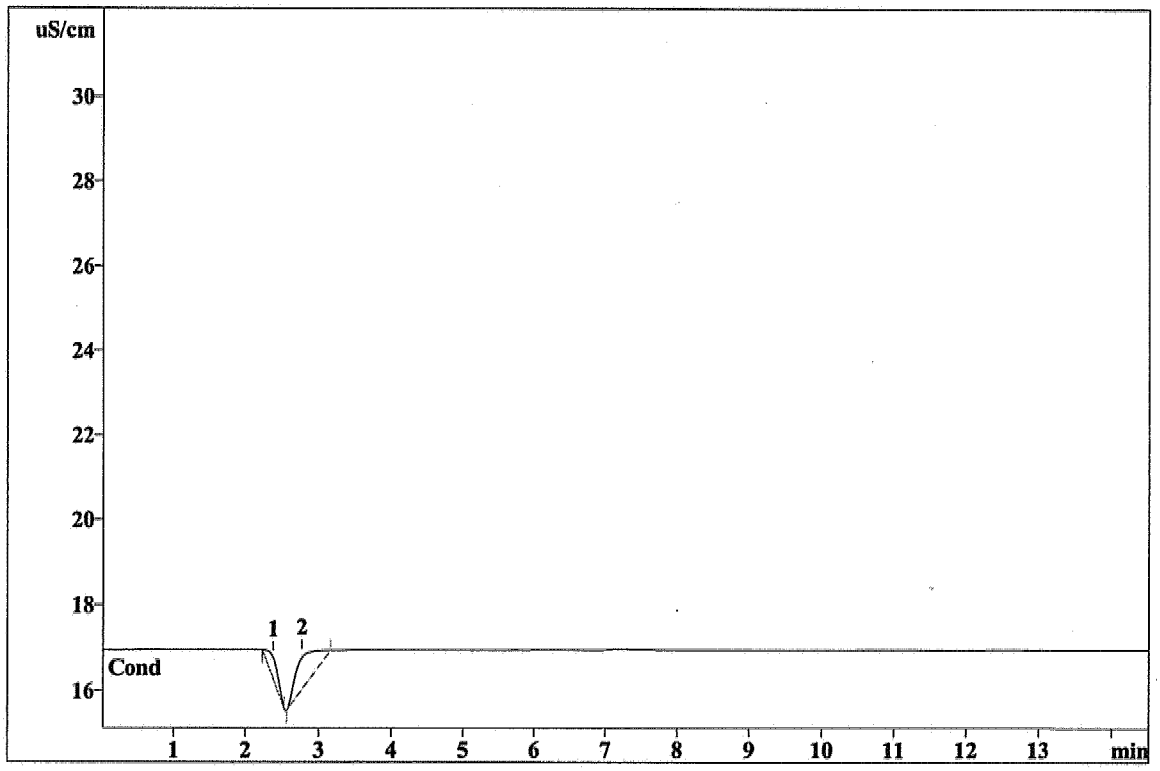
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METROHM LTD

QC DATA

Report date: 3/27/2006 10:27:25 PM
Printed by: Cherry Dam

Ident: AC24-03 ICC039WB
Analysis from: 3/23/2006 12:34:56 PM
File: q3231234.chw Last save: 3/23/2006 12:49:23 PM
Modified!
Method: IC100-B20.mtw Last save: 3/22/2006 10:26:42 P
Run operator: Cherry Dam
Analysis number: 13511

SAMPLE:
:
Vial number: 3
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	2.38	0.48	5.022	0.000	
2	2.77	0.75	15.533	0.000	
2	14.50	1.24	20.554	0.000	

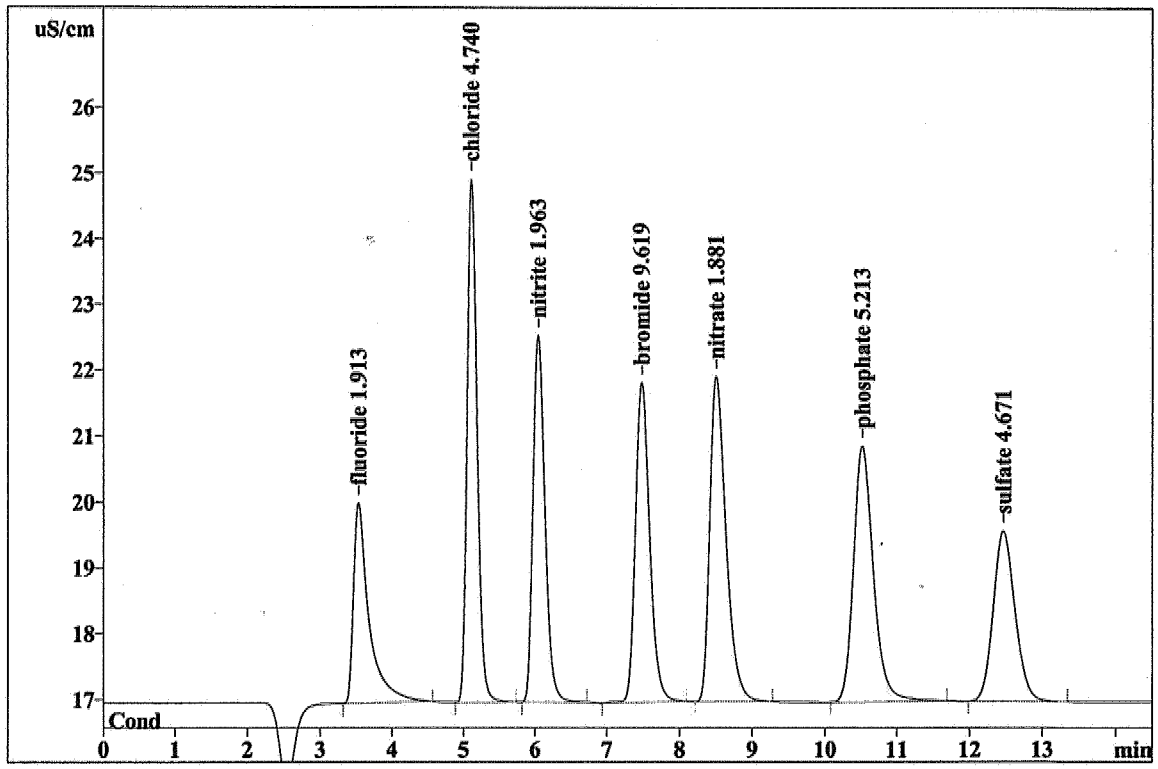
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METROHM LTD

Report date: 3/23/2006 1:06:57 PM
Printed by: Cherry Dam

Ident: AC24-04 ICC039WL
Analysis from: 3/23/2006 12:52:29 PM
File: Q3231252.CHW Last save: 3/23/2006 1:06:57 PM

Method: IC100-B20.mtw Last save: 3/22/2006 10:26:42 P
Run operator: Cherry Dam
Analysis number: 13512

SAMPLE:
:
Vial number: 4
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	3.53	3.04	45.775	1.913	fluoride
2	5.11	7.95	76.912	4.740	chloride
3	6.05	5.56	64.794	1.963	nitrite
4	7.48	4.85	66.037	9.619	bromide
5	8.51	4.93	75.656	1.881	nitrate
6	10.52	3.88	74.422	5.213	phosphate ✓
7	12.47	2.58	53.853	4.671	sulfate
7	14.50	32.80	457.449	30.001	

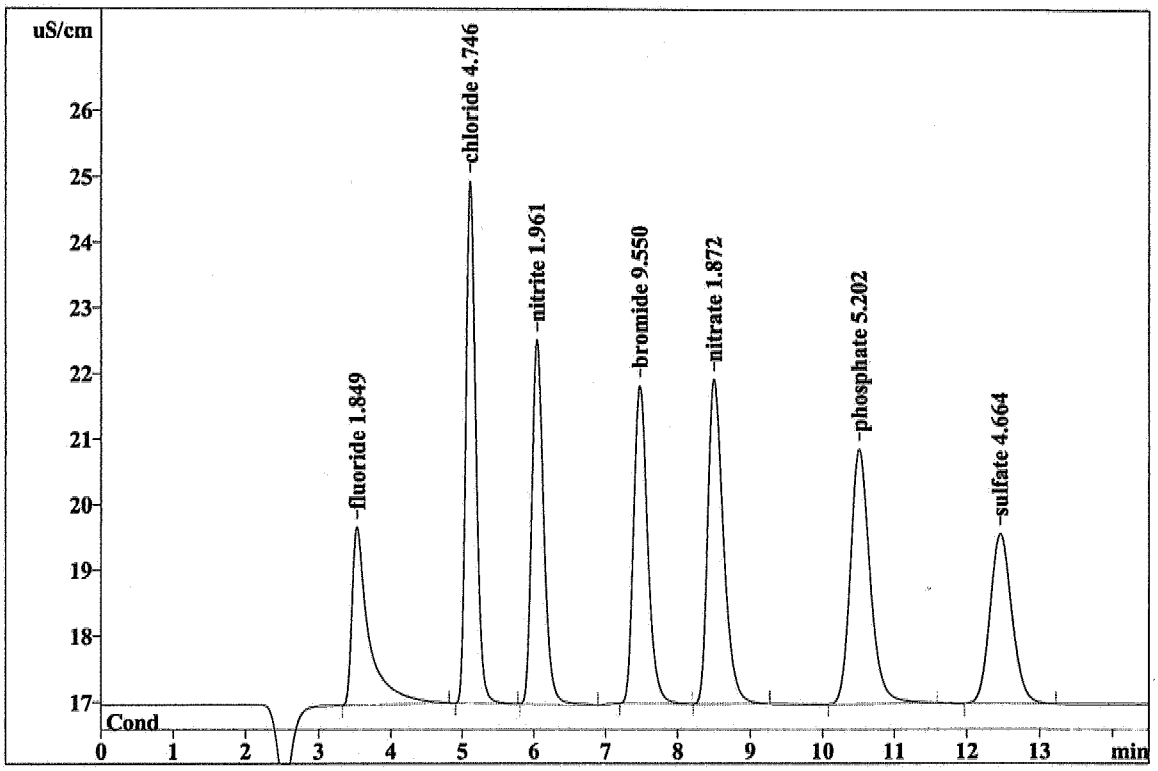
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METROHM LTD

Report date: 3/23/2006 1:24:31 PM
Printed by: Cherry Dam

Ident: AC24-05 ICC039WC
Analysis from: 3/23/2006 1:10:04 PM
File: Q3231310.CHW Last save: 3/23/2006 1:24:31 PM

Method: IC100-B20.mtw Last save: 3/22/2006 10:26:42 P
Run operator: Cherry Dam
Analysis number: 13513

SAMPLE:
:
Vial number: 5
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	3.53	2.71	44.218	1.849	fluoride
2	5.12	7.96	77.002	4.746	chloride
3	6.05	5.55	64.704	1.961	nitrite
4	7.48	4.85	65.565	9.550	bromide
5	8.51	4.95	75.288	1.872	nitrate
6	10.51	3.89	74.271	5.202	phosphate ✓
7	12.46	2.58	53.766	4.664	sulfate
7	14.50	32.48	454.816	29.844	

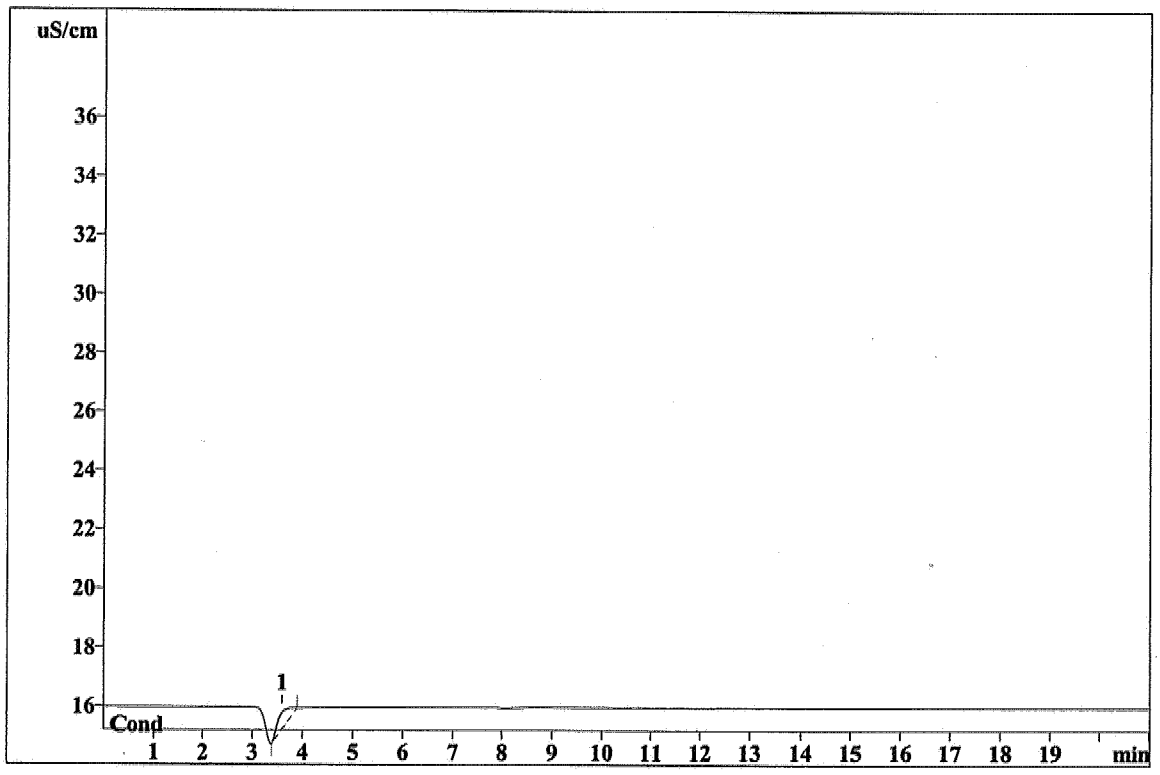
This report has been created by IC Net
METROHM LTD

INITIAL CALIBRATION

Report date: 3/24/2006 10:45:19 AM
Printed by: Cherry Dam

Ident: AC20-02 S0
Analysis from: 3/21/2006 12:16:21 AM
File: q3210016.chw Last save: 3/21/2006 11:24:52 AM
Modified!
Method: IC100-C20.mtw Last save: 3/21/2006 11:24:47 A
Run operator: Cherry Dam
Analysis number: 13375

SAMPLE:
:
Vial number: 2
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	3.58	0.56	9.995	0.000	

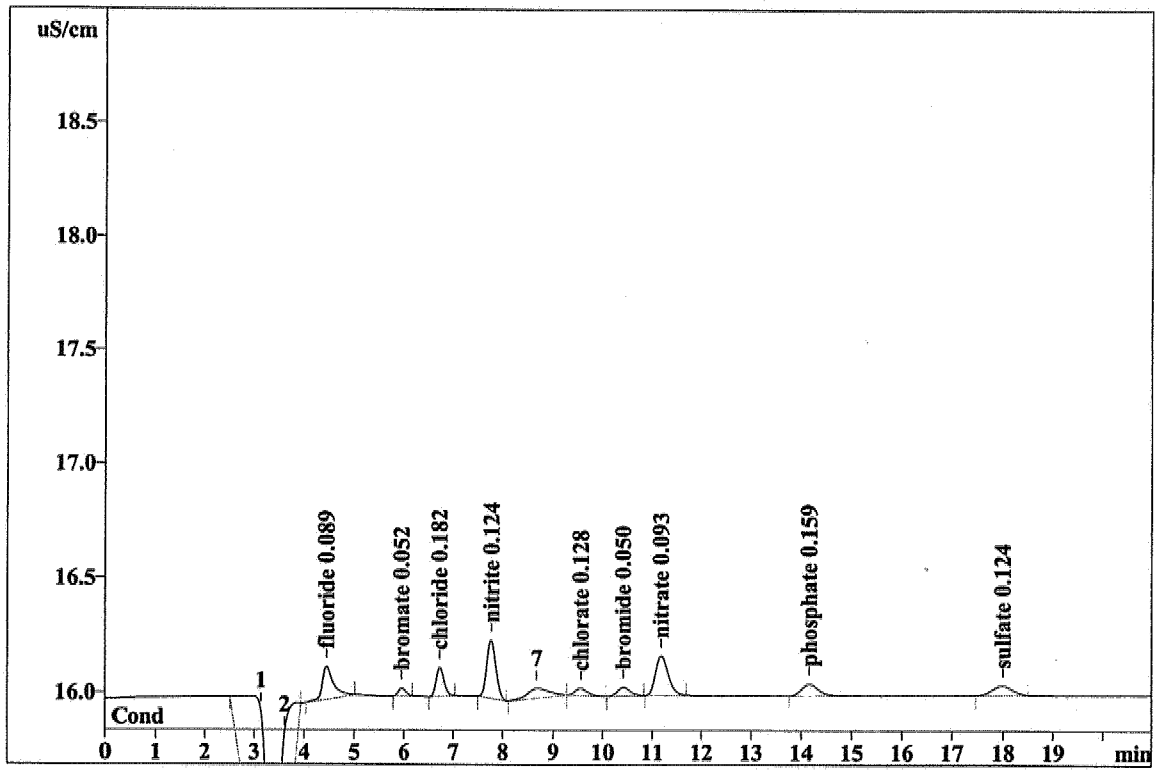
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METROHM LTD

3-24-06

Report date: 3/24/2006 10:45:55 AM
Printed by: Cherry Dam

Ident: AC20-03 S1
Analysis from: 3/21/2006 12:40:23 AM
File: q3210040.chw Last save: 3/21/2006 11:25:30 AM
Modified!
Method: IC100-C20.mtw Last save: 3/20/2006 9:54:42 PM
Run operator: Cherry Dam
Analysis number: 13376

SAMPLE:
:
Vial number: 3
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

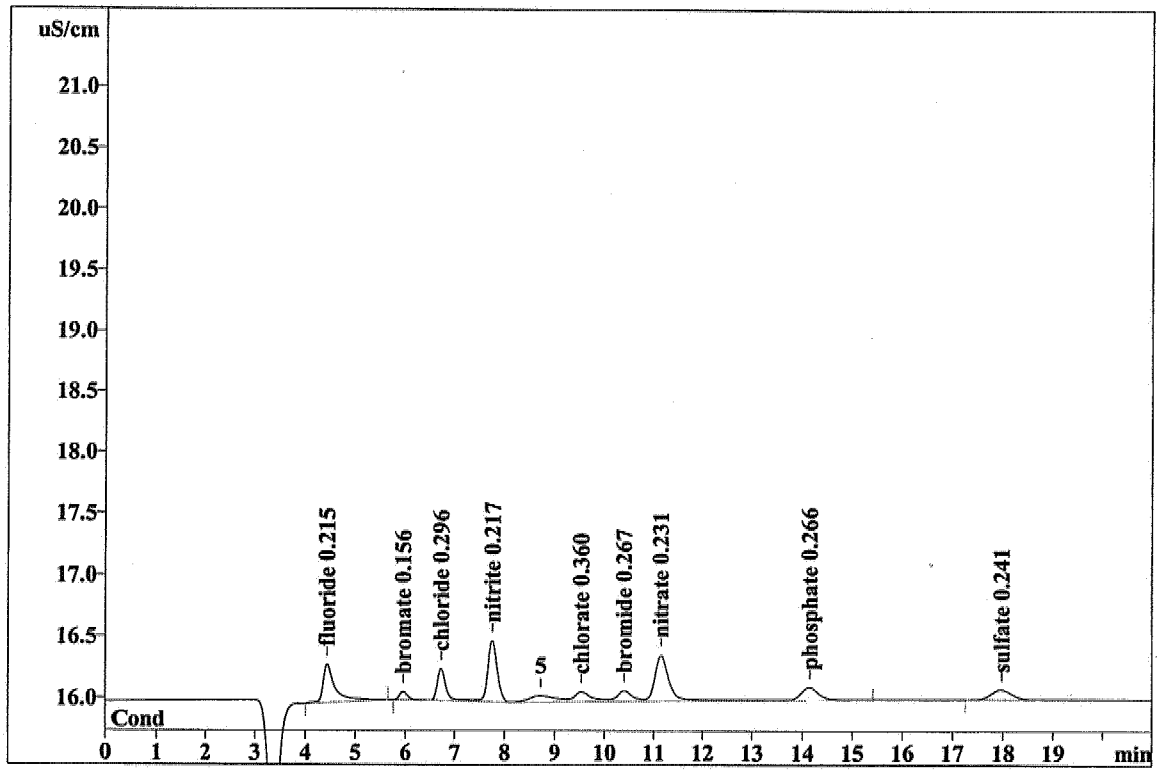
No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	3.13	0.83	22.756	0.000	
2	3.59	0.59	11.216	0.000	
3	4.44	0.14	2.261	0.089	fluoride
4	5.96	0.04	0.377	0.052	bromate
5	6.73	0.13	1.425	0.182	chloride
6	7.76	0.25	3.251	0.124	nitrite
7	8.68	0.04	1.328	0.000	
8	9.56	0.03	0.556	0.128	chlorate
9	10.41	0.04	0.727	0.050	bromide
10	11.18	0.17	3.140	0.093	nitrate
11	14.15	0.05	1.189	0.159	phosphate
12	17.98	0.04	1.193	0.124	sulfate
12	21.00	2.35	49.419	1.001	

3-24-06

Report date: 3/24/2006 10:46:24 AM
Printed by: Cherry Dam

Ident: AC20-04 S2
Analysis from: 3/21/2006 1:04:26 AM
File: q3210104.chw Last save: 3/21/2006 11:25:57 AM
Modified!
Method: IC100-C20.mtw Last save: 3/20/2006 9:54:42 PM
Run operator: Cherry Dam
Analysis number: 13377

SAMPLE:
:
Vial number: 4
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	4.43	0.31	5.252	0.215	fluoride
2	5.96	0.07	0.772	0.156	bromate
3	6.73	0.26	3.290	0.296	chloride
4	7.76	0.50	6.510	0.217	nitrite
5	8.71	0.05	2.017	0.000	
6	9.54	0.08	1.907	0.360	chlorate
7	10.39	0.09	2.101	0.267	bromide
8	11.15	0.37	8.378	0.231	nitrate
9	14.13	0.11	2.769	0.266	phosphate
10	17.97	0.08	2.508	0.241	sulfate
10	21.00	1.92	35.505	2.250	

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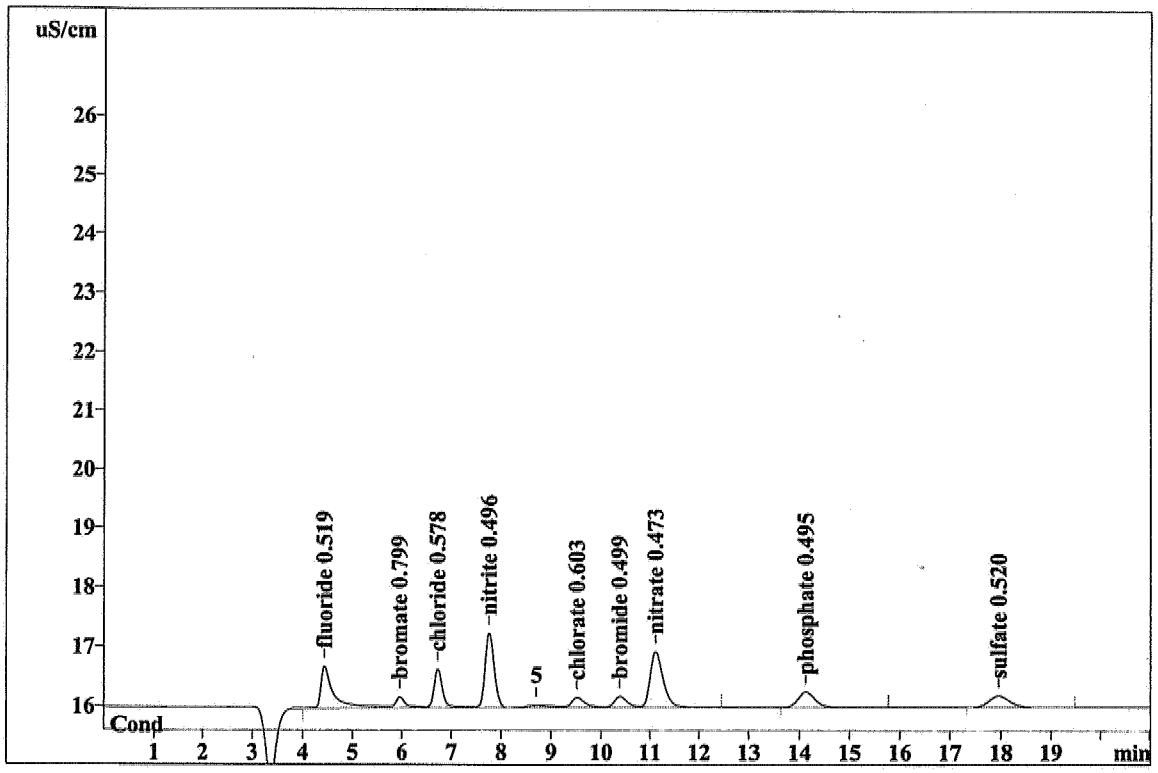
3-24-06

8024

Report date: 3/24/2006 10:46:52 AM
Printed by: Cherry Dam

Ident: AC20-05 S3
Analysis from: 3/21/2006 1:28:29 AM
File: q3210128.chw Last save: 3/21/2006 11:26:24 AM
Modified!
Method: IC100-C20.mtw Last save: 3/20/2006 9:54:42 PM
Run operator: Cherry Dam
Analysis number: 13378

SAMPLE:
:
Vial number: 5
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	4.44	0.70	12.411	0.519	fluoride
2	5.96	0.19	3.213	0.799	bromate
3	6.73	0.65	7.862	0.578	chloride
4	7.76	1.26	16.317	0.496	nitrite
5	8.71	0.05	1.582	0.000	
6	9.52	0.17	3.315	0.603	chlorate
7	10.38	0.19	3.566	0.499	bromide
8	11.11	0.94	17.571	0.473	nitrate
9	14.13	0.26	6.182	0.495	phosphate
10	17.95	0.20	5.649	0.520	sulfate
10	21.00	4.60	77.670	4.982	

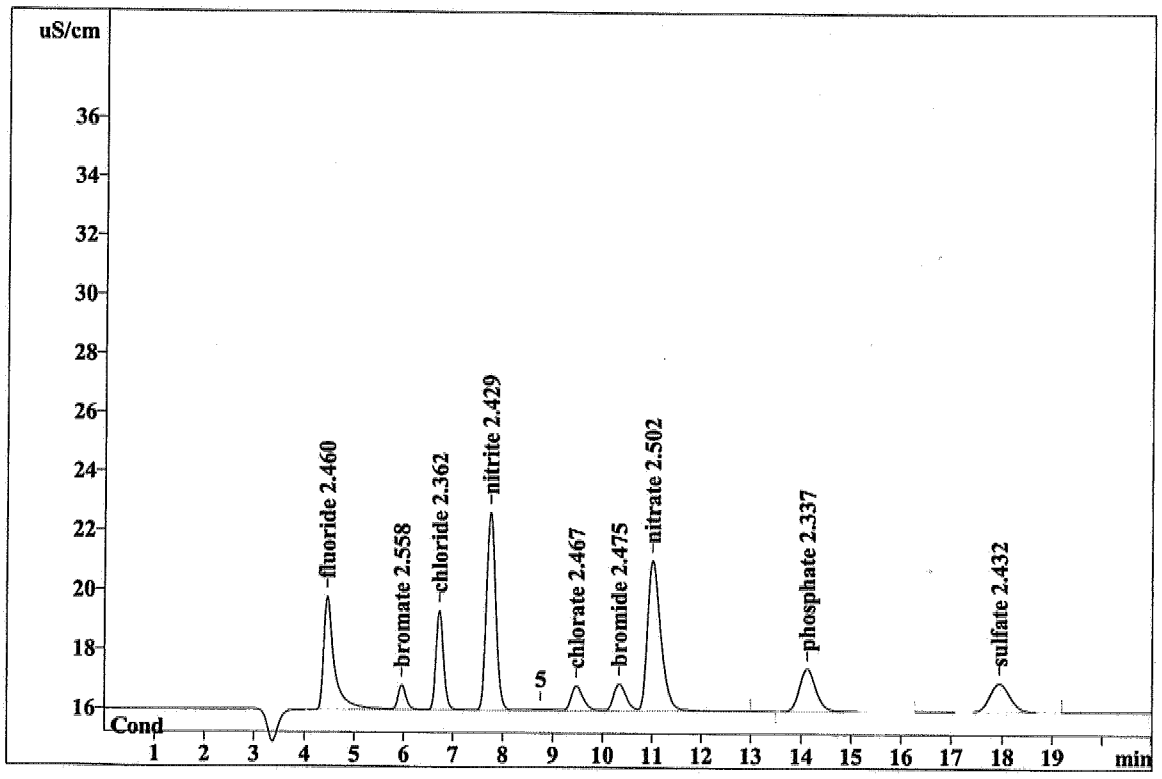
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Report date: 3/24/2006 10:47:22 AM
Printed by: Cherry Dam

Ident: AC20-06 S4
Analysis from: 3/21/2006 1:52:31 AM
File: q3210152.chw Last save: 3/21/2006 11:27:16 AM
Modified!
Method: IC100-C20.mtw Last save: 3/20/2006 9:54:42 PM
Run operator: Cherry Dam
Analysis number: 13379

SAMPLE:
:
Vial number: 6
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	4.45	3.82	58.162	2.460	fluoride
2	5.96	0.85	9.889	2.558	bromate
3	6.72	3.36	36.894	2.362	chloride
4	7.75	6.68	84.256	2.429	nitrite
5	8.77	0.05	1.868	0.000	
6	9.47	0.84	14.130	2.467	chlorate
7	10.33	0.90	16.073	2.475	bromide
8	11.01	5.06	94.621	2.502	nitrate
9	14.11	1.44	33.585	2.337	phosphate
10	17.94	0.97	27.151	2.432	sulfate
10	21.00	23.95	376.631	22.022	

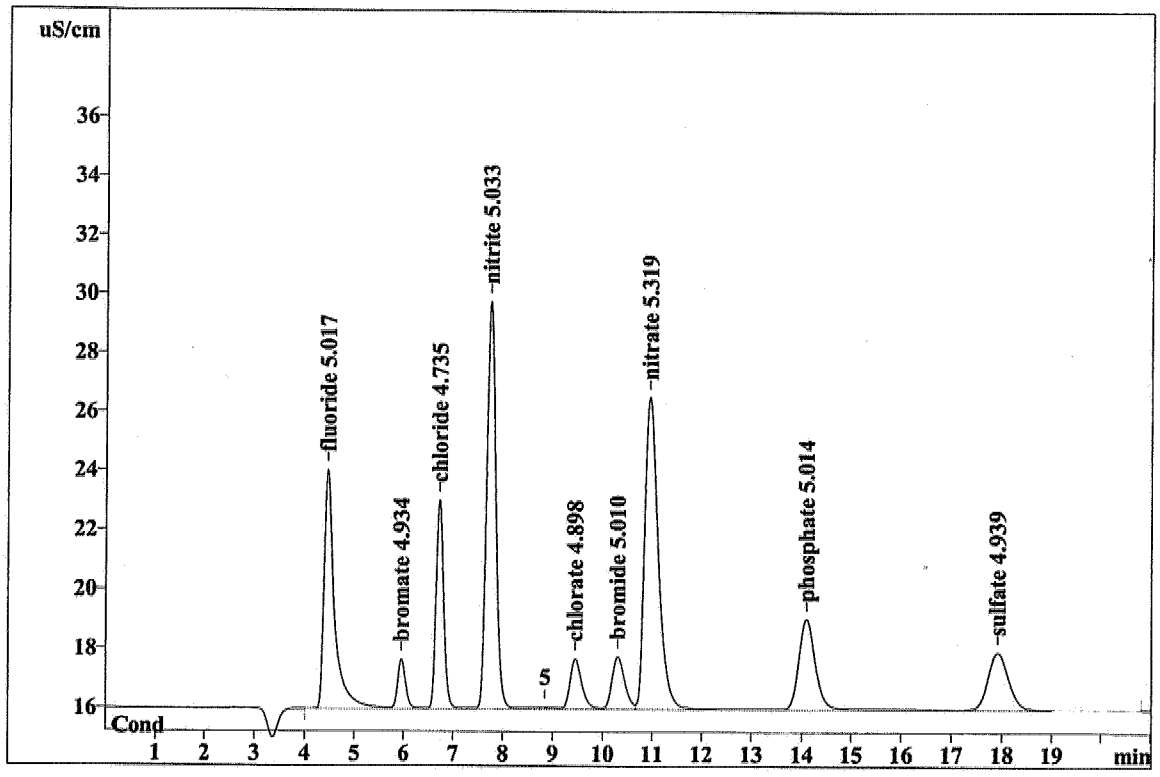
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3-24-06

Report date: 3/24/2006 10:47:49 AM
Printed by: Cherry Dam

Ident: AC20-07 S5
Analysis from: 3/21/2006 2:16:33 AM
File: q3210216.chw Last save: 3/21/2006 11:27:42 AM
Modified!
Method: IC100-C20.mtw Last save: 3/20/2006 9:54:42 PM
Run operator: Cherry Dam
Analysis number: 13380

SAMPLE:
:
Vial number: 7
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	4.46	8.06	118.464	5.017	fluoride
2	5.95	1.68	18.909	4.934	bromate
3	6.72	7.04	75.492	4.735	chloride
4	7.74	13.79	175.802	5.033	nitrite
5	8.86	0.06	2.345	0.000	
6	9.44	1.70	28.237	4.898	chlorate
7	10.30	1.77	32.116	5.010	bromide
8	10.94	10.55	201.551	5.319	nitrate
9	14.09	3.07	73.406	5.014	phosphate
10	17.91	1.94	55.349	4.939	sulfate
10	21.00	49.67	781.670	44.898	

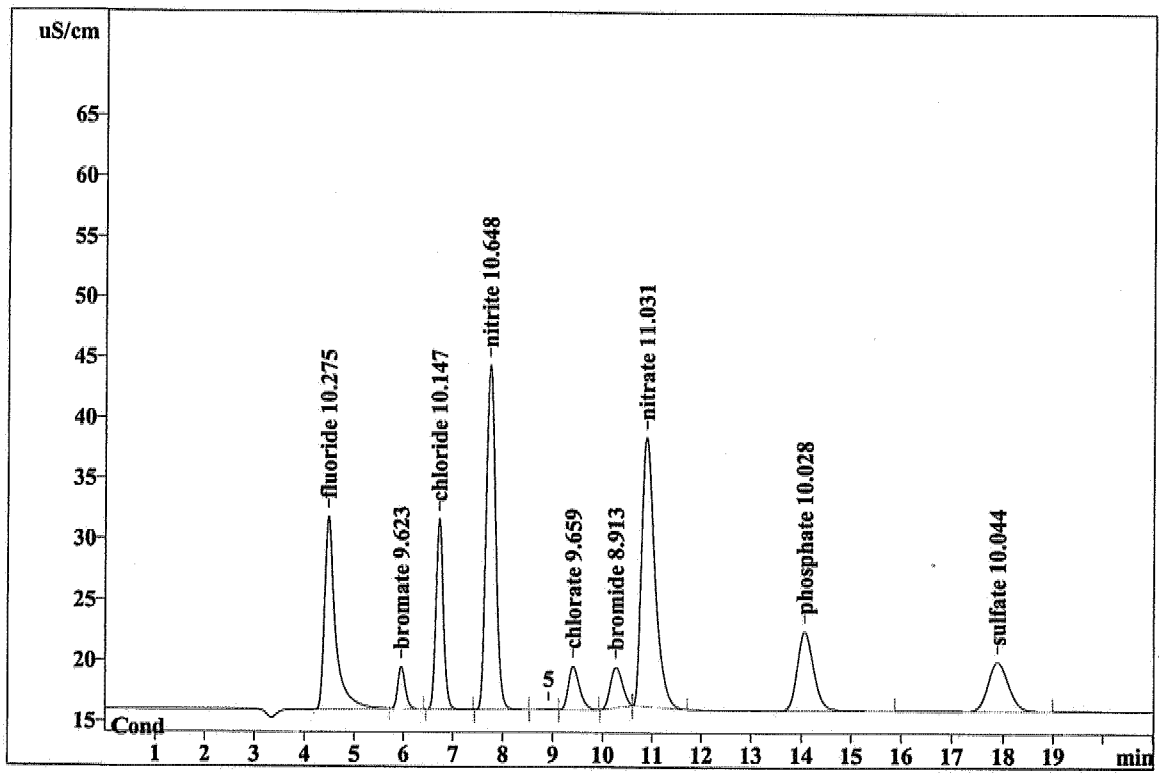
This report has been created by IC Net

3-24-06

Report date: 3/24/2006 10:48:29 AM
Printed by: Cherry Dam

Ident: AC20-08 S6
Analysis from: 3/21/2006 2:40:35 AM
File: q3210240.chw Last save: 3/21/2006 11:28:03 AM
Modified!
Method: IC100-C20.mtw Last save: 3/20/2006 9:54:42 PM
Run operator: Cherry Dam
Analysis number: 13381

SAMPLE:
:
Vial number: 8
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	4.48	15.88	242.429	10.275	fluoride
2	5.95	3.47	36.711	9.623	bromate
3	6.72	15.68	163.525	10.147	chloride
4	7.74	28.40	373.172	10.648	nitrite
5	8.91	0.04	0.619	0.000	
6	9.41	3.58	55.871	9.659	chlorate
7	10.26	3.34	56.825	8.913	bromide
8	10.88	22.21	418.469	11.031	nitrate
9	14.06	6.55	147.996	10.028	phosphate
10	17.88	4.06	112.778	10.044	sulfate
10	21.00	103.21	1608.394	90.371	

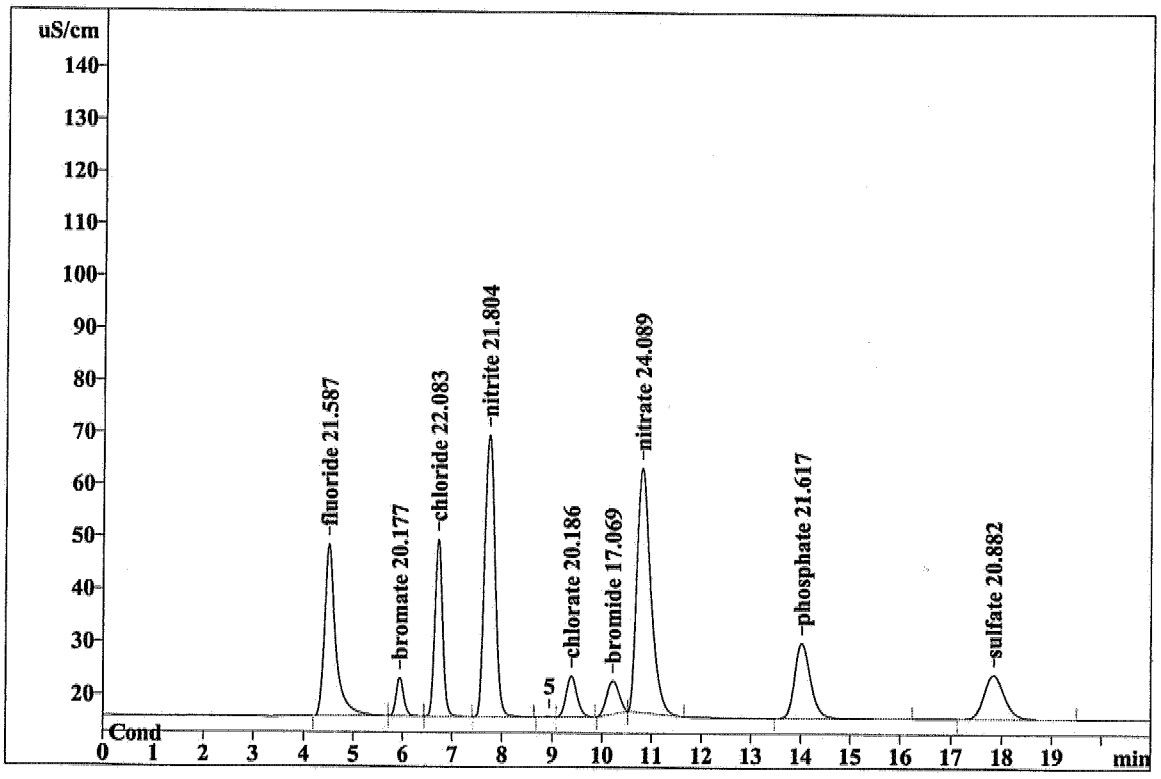
This report has been created by IC Net

3-24-06

Report date: 3/24/2006 10:48:58 AM
Printed by: Cherry Dam

Ident: AC20-09 S7
Analysis from: 3/21/2006 3:04:36 AM
File: q3210304.chw Last save: 3/21/2006 11:28:26 AM
Modified!
Method: IC100-C20.mtw Last save: 3/20/2006 9:54:42 PM
Run operator: Cherry Dam
Analysis number: 13382

SAMPLE:
:
Vial number: 9
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

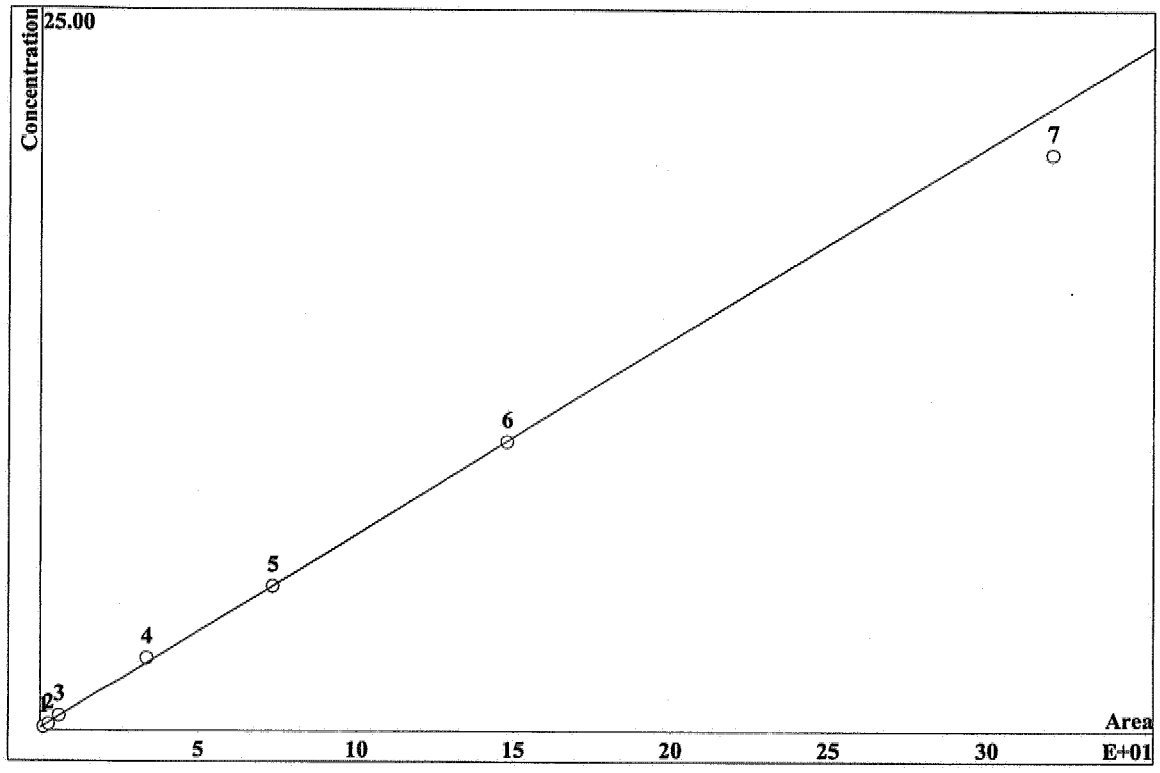
No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	4.50	32.64	509.116	21.587	fluoride
2	5.94	7.27	76.778	20.177	bromate
3	6.73	33.72	357.688	22.083	chloride
4	7.74	53.84	765.312	21.804	nitrite
5	8.92	0.05	0.654	0.000	
6	9.38	7.75	116.958	20.186	chlorate
7	10.22	6.30	108.440	17.069	bromide
8	10.81	46.68	914.277	24.089	nitrate
9	14.01	14.26	320.389	21.617	phosphate
10	17.83	8.37	234.687	20.882	sulfate
10	21.00	210.88	3404.298	189.495	

This report has been created by IC Net

3-24-06

CALIBRATION OF COMPONENT phosphate

Method: IC100-C20.mtw
Equation: Q = 0.0672242·A + 0.0795077
RSD: 3.083 %
Correlation coefficient: 0.999767



K3 = 0 K2 = 0 K1 = 0.0672242 K0 = 0.0795077
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.0523	1.189	0.1	1	14.16	Yes	q3210040.chw
2	0.107	2.769	0.2	1	14.16	Yes	q3210104.chw
3	0.2592	6.182	0.5	1	14.16	Yes	q3210128.chw
4	1.438	33.59	2.5	1	14.16	Yes	q3210152.chw
5	3.074	73.41	5	1	14.16	Yes	q3210216.chw
6	6.547	148	10	1	14.16	Yes	q3210240.chw
7	14.26	320.4	20	1	14.16	No	q3210304.chw

3-24-06

SECOND SOURCE

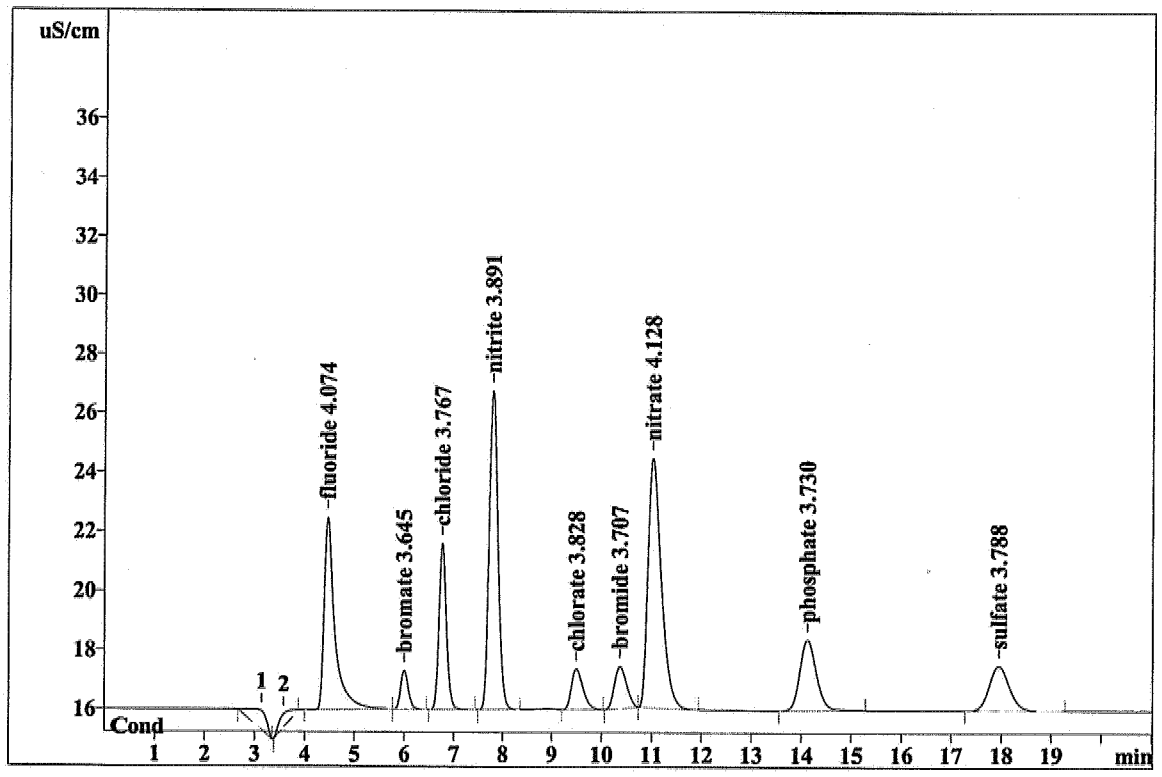
IC Result Check FormVersion : QC1

LFID	LSID	Selection	fluoride	bromate	nitrate	chloride	nitrite	chlorate	bromide	phosphate	sulfate	RawNetID	DF
AC20-10	ICV	FBNCICBPS	101.8%	91.1%	103.2%	94.2%	97.3%	95.7%	92.7%	93.3%	94.7%	q3210328	1
AC20-11	ICB	FBNCICBPS	0	0	0	0	0	0	0	0	0	q3210352	1
AC20-22	CCV1	FBNCICBPS	94.2%	93.4%	93.6%	94.7%	91.1%	94.2%	94.4%	93.9%	98%	q3210817	1
AC20-23	CCB1	FBNCICBPS	0	0	0	0	0	0	0	0	0	q3210841	1

Report date: 3/24/2006 10:49:30 AM
Printed by: Cherry Dam

Ident: AC20-10 ICV
Analysis from: 3/21/2006 3:28:38 AM
File: q3210328.chw Last save: 3/21/2006 11:28:51 AM
Modified!
Method: IC100-C20.mtw Last save: 3/20/2006 9:54:42 PM
Run operator: Cherry Dam
Analysis number: 13383

SAMPLE:
:
Vial number: 10
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

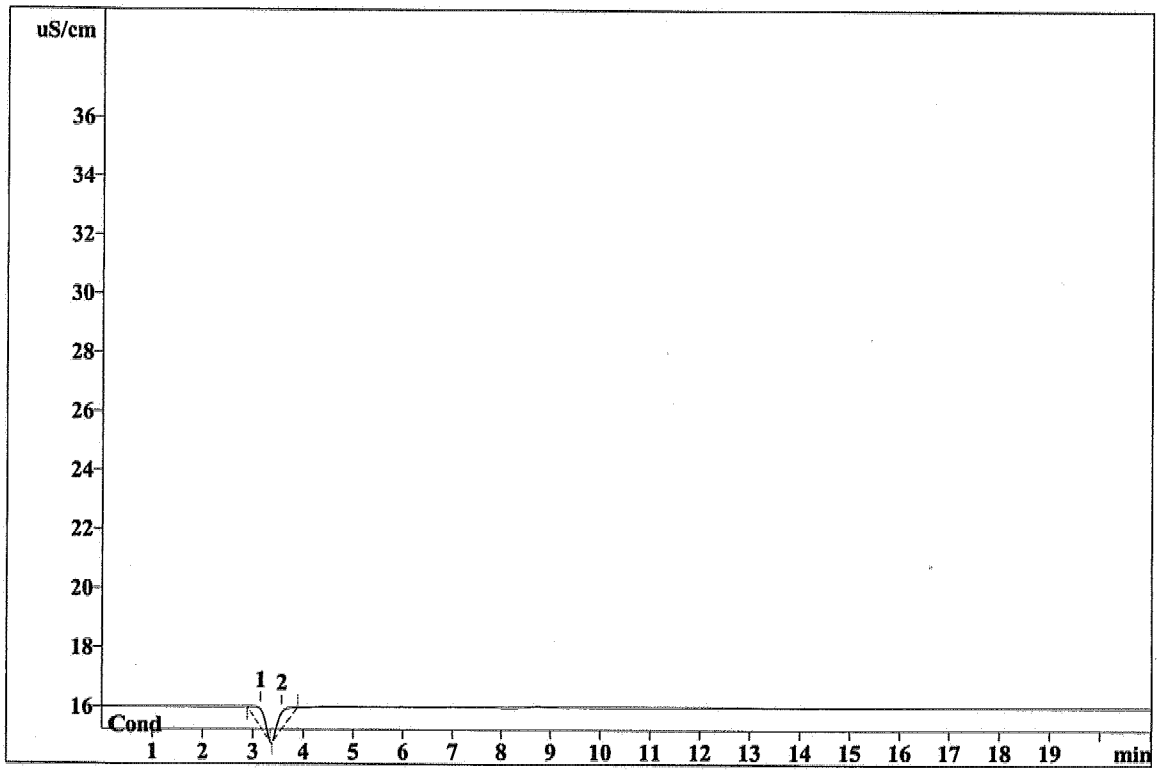
No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	3.13	0.64	14.324	0.000	
2	3.57	0.45	7.739	0.000	
3	4.45	6.49	96.217	4.074	fluoride
4	5.99	1.31	14.018	3.645	bromate
5	6.76	5.60	59.748	3.767	chloride
6	7.79	10.76	135.636	3.891	nitrite
7	9.50	1.37	22.032	3.828	chlorate
8	10.36	1.42	23.873	3.707	bromide
9	11.02	8.43	156.332	4.128	nitrate
10	14.12	2.39	54.308	3.730	phosphate
11	17.94	1.52	42.402	3.788	sulfate
11	21.00	40.36	626.630	34.558	

3-24-06

Report date: 3/24/2006 10:50:07 AM
Printed by: Cherry Dam

Ident: AC20-11 ICB
Analysis from: 3/21/2006 3:52:40 AM
File: q3210352.chw Last save: 3/21/2006 11:29:58 AM
Modified!
Method: IC100-C20.mtw Last save: 3/20/2006 9:54:42 PM
Run operator: Cherry Dam
Analysis number: 13384

SAMPLE:
:
Vial number: 11
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	3.16	0.58	9.099	0.000	
2	3.58	0.55	9.612	0.000	
2	21.00	1.13	18.711	0.000	

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3-24-06

DAILY CALIBRATION

IC Result Check FormVersion : QA5

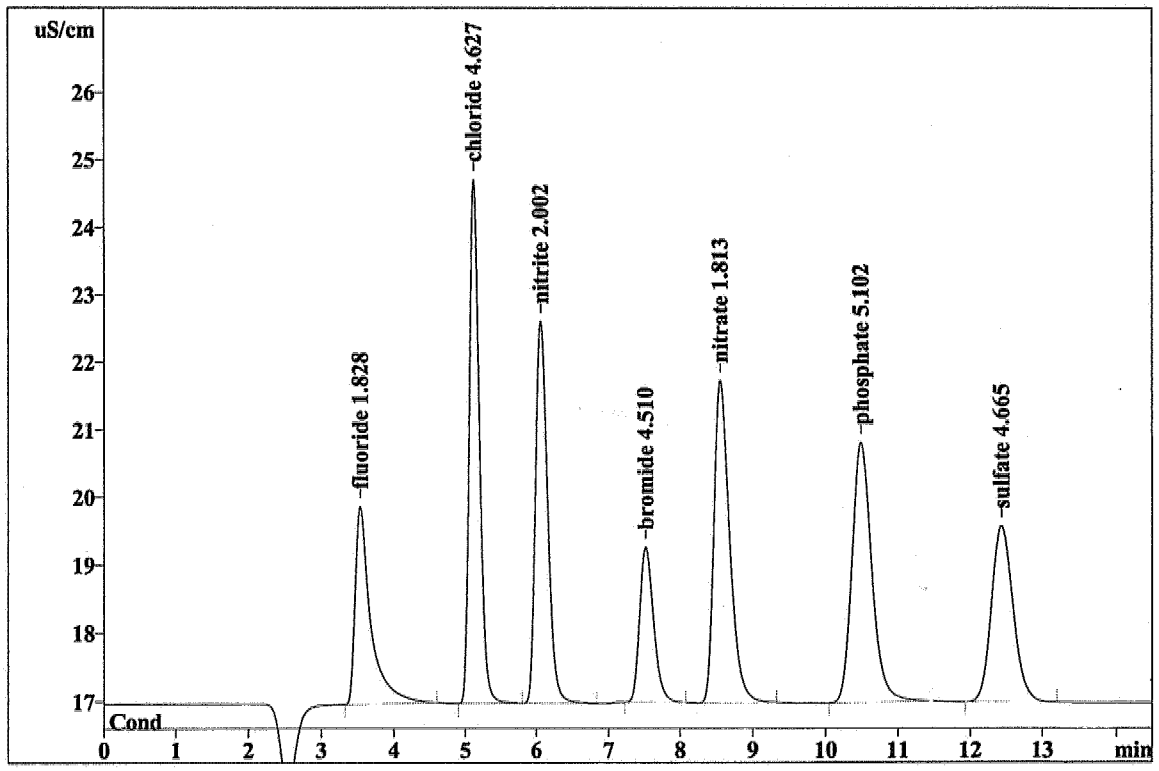
LFID	LSID	Selection	phosphate	chloride	fluoride	sulfate	nitrite	bromide	nitrate	RawNetID	DF
AC24-01	CCV135	PCFSIBN	102%	92.5%	91.4%	93.3%	100.1%	90.2%	90.7%	q3231159	1
AC24-02	CCB135	PCFSIBN	0	0	0	0	0	0	0	q3231217	1
AC24-13	CCV136	PCFSIBN	102.8%	92.7%	92.9%	93.5%	99.8%	90.4%	91%	q3231602	1
AC24-14	CCB136	PCFSIBN	0	0	0	0	0	0	0	q3231620	1
AC24-25	CCV137	PCFSIBN	103.9%	92.6%	92.8%	93.4%	100.1%	90.3%	91%	q3231933	1
AC24-26	CCB137	PCFSIBN	0	0	0	0	0	0	0	q3231950	1

Report date: 3/23/2006 12:14:14 PM
Printed by: Cherry Dam

Ident: AC24-01 CCV135
Analysis from: 3/23/2006 11:59:47 AM
File: Q3231159.CHW Last save: 3/23/2006 12:14:14 PM

Method: IC100-B20.mtw Last save: 3/22/2006 10:26:42 P
Run operator: Cherry Dam
Analysis number: 13509

SAMPLE:
:
Vial number: 1
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

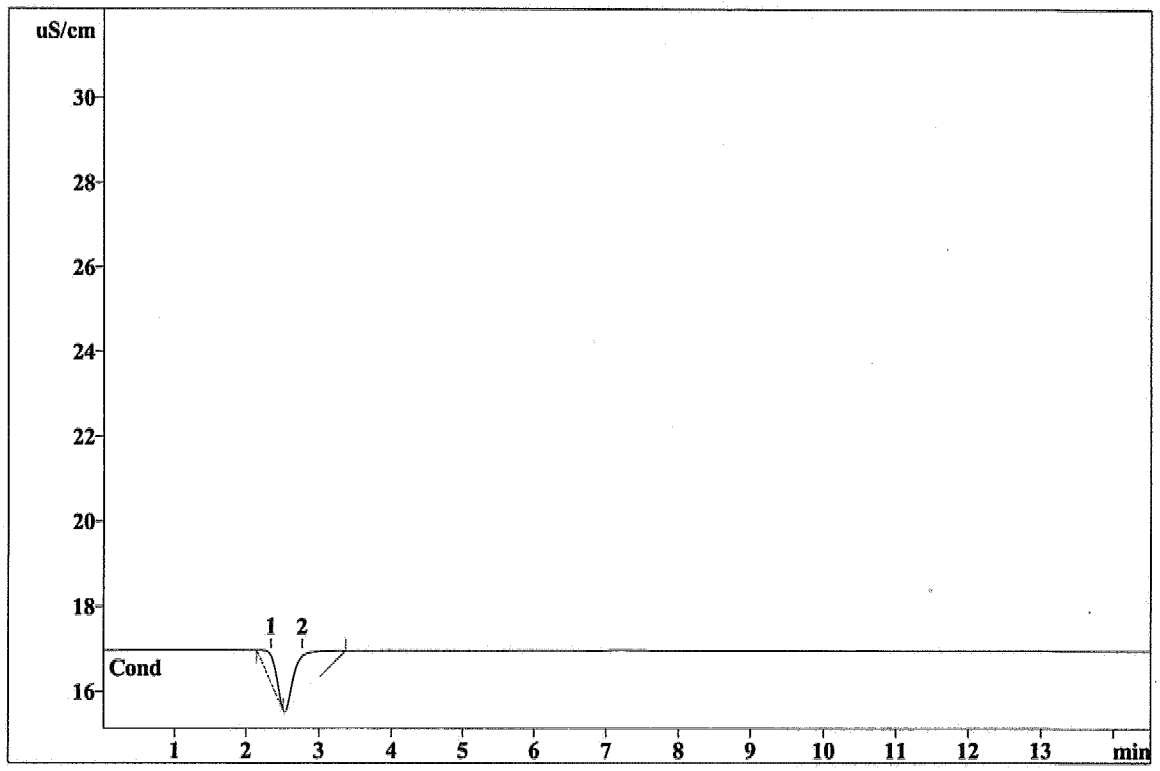
No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	3.53	2.90	43.720	1.828	fluoride
2	5.12	7.74	75.029	4.627	chloride
3	6.07	5.63	66.077	2.002	nitrite
4	7.52	2.28	31.007	4.510	bromide
5	8.55	4.75	72.870	1.813	nitrate
6	10.49	3.83	72.822	5.102	phosphate
7	12.44	2.59	53.785	4.665	sulfate
7	14.50	29.73	415.310	24.547	

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Report date: 3/27/2006 10:27:10 PM
Printed by: Cherry Dam

Ident: AC24-02 CCB135
Analysis from: 3/23/2006 12:17:22 PM
File: q3231217.chw Last save: 3/23/2006 12:31:48 PM
Modified!
Method: IC100-B20.mtw Last save: 3/22/2006 10:26:42 P
Run operator: Cherry Dam
Analysis number: 13510

SAMPLE:
:
Vial number: 2
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	2.35	0.63	7.878	0.000	
2	2.77	0.90	25.233	0.000	
2	14.50	1.53	33.110	0.000	

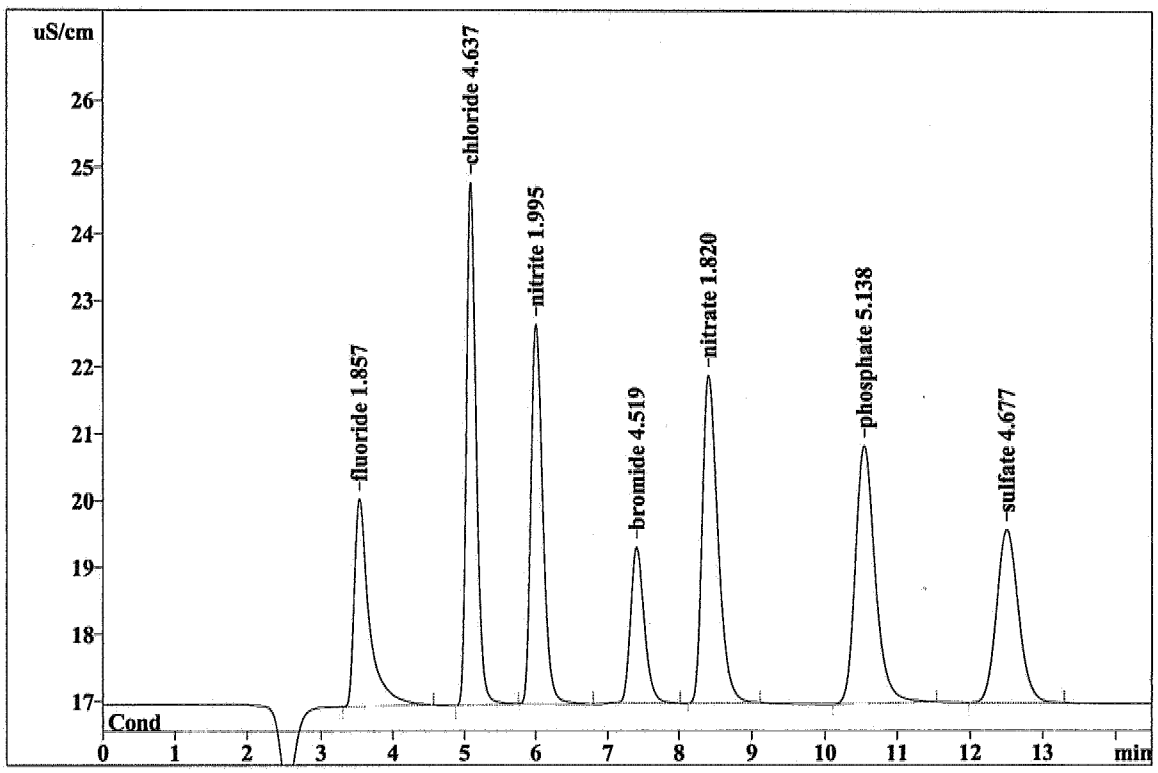
This report has been created by IC Net
METROHM LTD

Report date: 3/23/2006 4:16:59 PM
Printed by: Cherry Dam

Ident: AC24-13 CCV136
Analysis from: 3/23/2006 4:02:32 PM
File: Q3231602.CHW Last save: 3/23/2006 4:16:59 PM

Method: IC100-B20.mtw Last save: 3/22/2006 10:26:42 P
Run operator: Cherry Dam
Analysis number: 13521

SAMPLE:
:
Vial number: 13
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

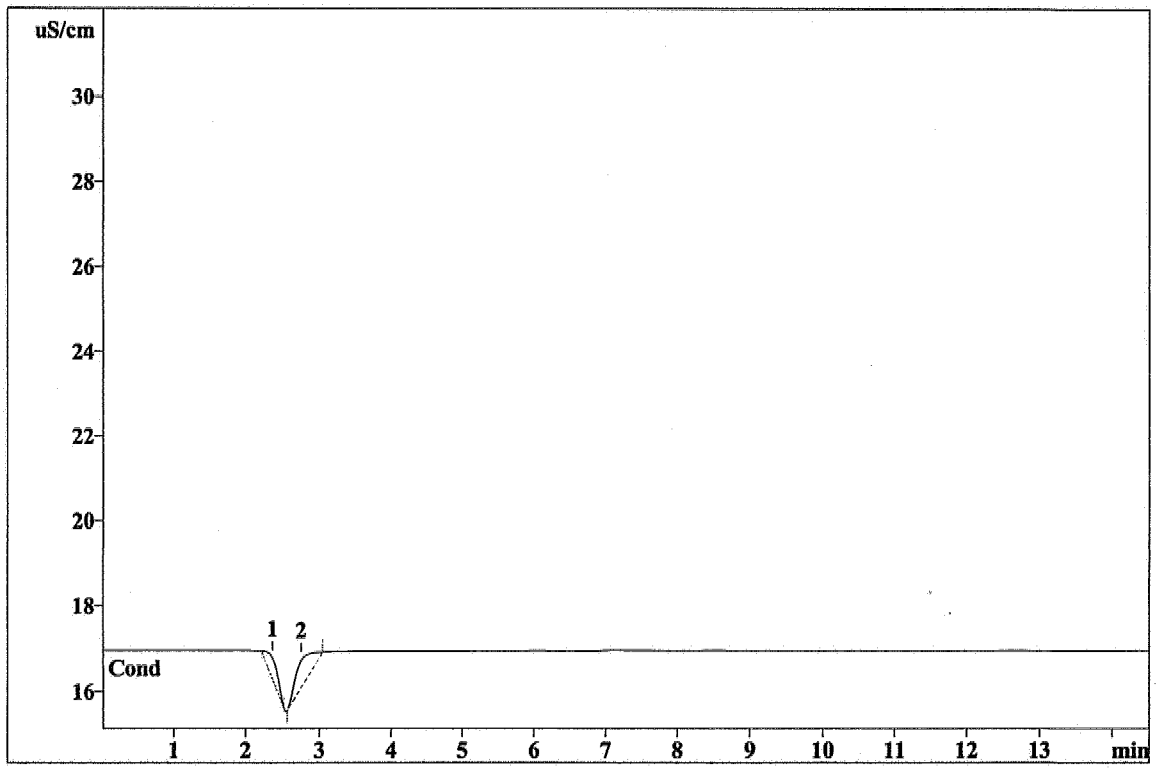
No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	3.54	3.10	44.427	1.857	fluoride
2	5.09	7.83	75.199	4.637	chloride
3	6.01	5.68	65.847	1.995	nitrite
4	7.41	2.32	31.071	4.519	bromide
5	8.41	4.91	73.128	1.820	nitrate
6	10.55	3.86	73.341	5.138	phosphate
7	12.51	2.59	53.926	4.677	sulfate
7	14.50	30.29	416.938	24.643	

This report has been created by IC Net
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Report date: 3/27/2006 10:27:40 PM
Printed by: Cherry Dam

Ident: AC24-14 CCB136
Analysis from: 3/23/2006 4:20:06 PM
File: q3231620.chw Last save: 3/23/2006 4:34:33 PM
Modified!
Method: IC100-B20.mtw Last save: 3/22/2006 10:26:42 P
Run operator: Cherry Dam
Analysis number: 13522

SAMPLE:
:
Vial number: 14
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	2.37	0.49	5.137	0.000	
2	2.75	0.63	10.581	0.000	
2	14.50	1.12	15.718	0.000	

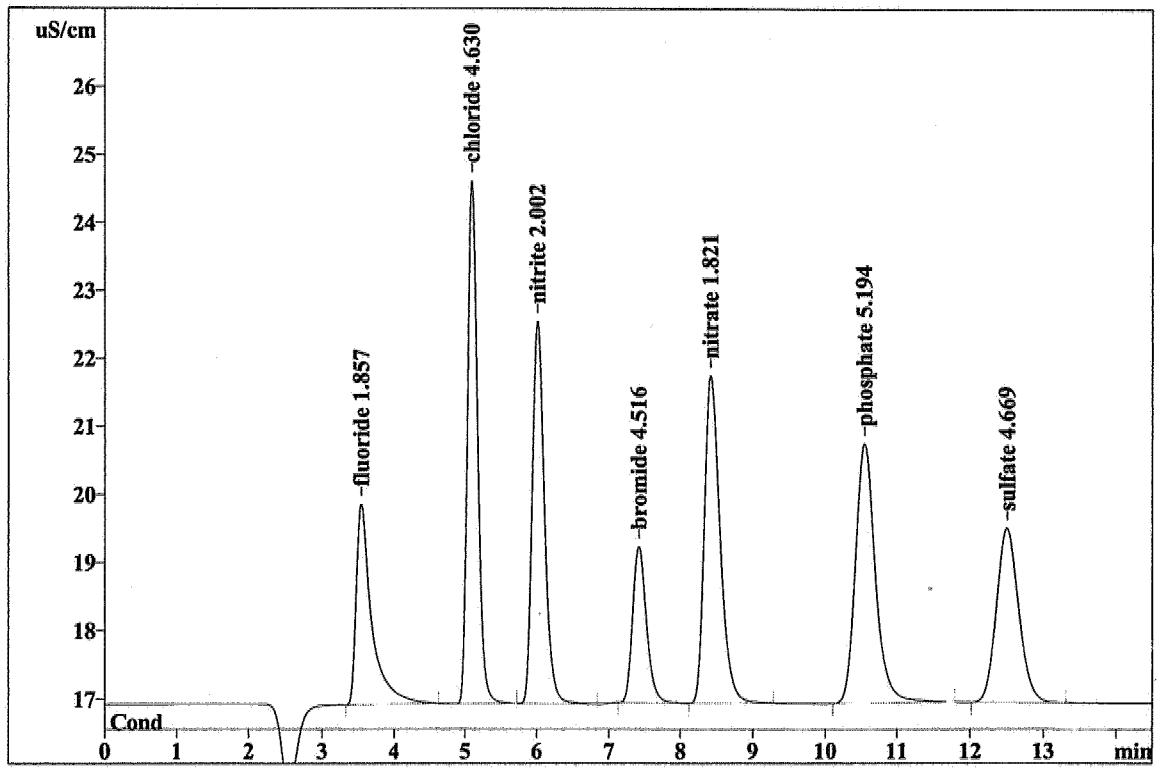
This report has been created by IC Net
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Report date: 3/23/2006 7:47:44 PM
Printed by: Cherry Dam

Ident: AC24-25 CCV137
Analysis from: 3/23/2006 7:33:17 PM
File: Q3231933.CHW Last save: 3/23/2006 7:47:44 PM

Method: IC100-B20.mtw Last save: 3/23/2006 7:02:33 PM
Run operator: Cherry Dam
Analysis number: 13533

SAMPLE:
:
Vial number: 25
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	3.54	2.94	44.417	1.857	fluoride
2	5.10	7.69	75.078	4.630	chloride
3	6.02	5.61	66.062	2.002	nitrite
4	7.42	2.28	31.052	4.516	bromide
5	8.42	4.81	73.180	1.821	nitrate
6	10.55	3.81	74.148	5.194	phosphate
7	12.51	2.56	53.823	4.669	sulfate
7	14.50	29.70	417.761	24.688	

This report has been created by IC Net
METROHM LTD

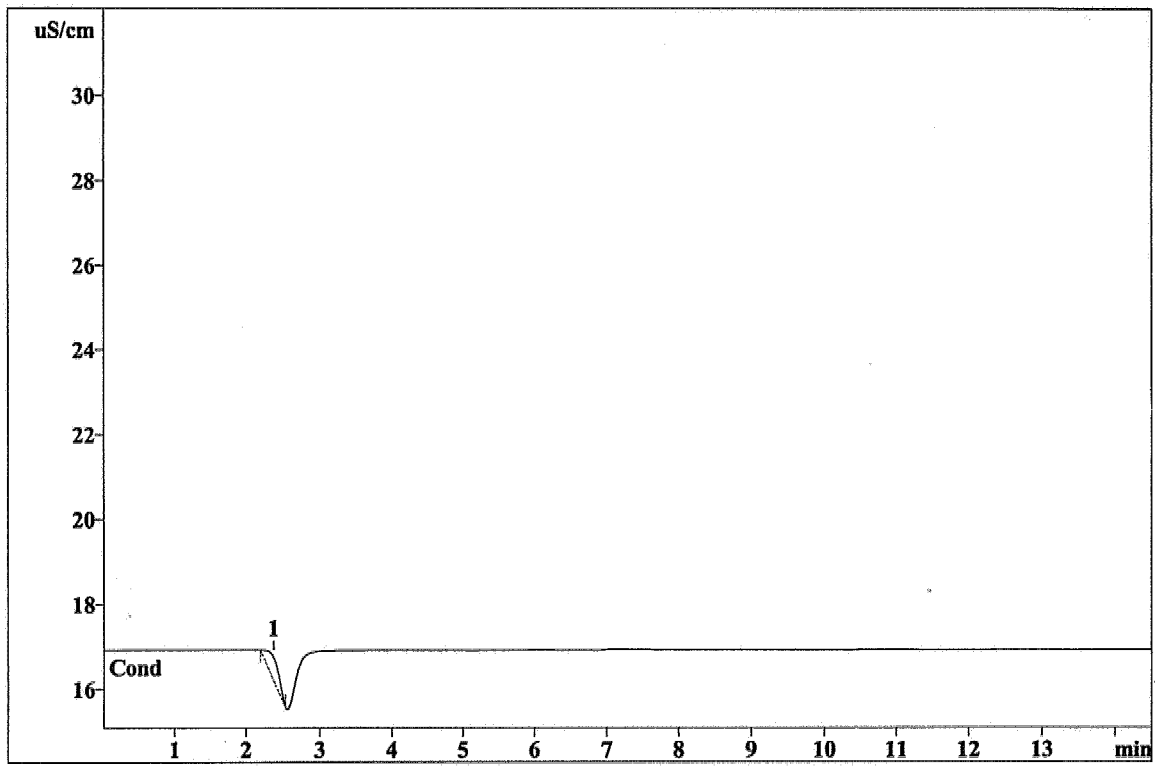
8041

Report date: 3/27/2006 10:27:53 PM
Printed by: Cherry Dam

Ident: AC24-26 CCB137
Analysis from: 3/23/2006 7:50:51 PM
File: q3231950.chw Last save: 3/23/2006 8:05:18 PM

Method: IC100-B20.mtw Last save: 3/23/2006 8:05:06 PM
Run operator: Cherry Dam
Analysis number: 13534

SAMPLE:
:
Vial number: 26
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Height uS/cm	Area uS/cm*sec	Conc. mg/L	Name
1	2.37	0.54	6.386	0.000	

This report has been created by IC Net
METROHM LTD

ANALYTICAL LOG

ANALYSIS RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

ICC039WL + ICC039W6 → Br^- was spiked at 10 ppm

Book #: A100-06

Instrument No.: 100

Analytical Sequence: AC24

Method File: IC100-B20.mtw

Analytical Batch: ICC039W

SOP #	Rev. #
☑ EMAX-300.0	3
☐ EMAX-9056	2
☐ EMAX-	

STANDARDS ID	
ICAL	S11B-07-45-1
ICV/~~LCS/MS~~ (08/24/06)	45-2
CCV	67-1
LCS	67-2
MSxDF	$NO_3N + NO_2N + F$ = 2 ppm; All 5 ppm ACC STD

ELECTRONIC DATA ARCHIVAL	
Location	Date
☐ IC METROHM	
☐	

Analyzed By: JL

Date: 08/24/06

File Name	Method	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Calibration Level	Sample Info 1	Sample Info 2
q3231159.chw	IC100-B20.mtw	AC24-01 CCV135	1	1.0	1.0	1.0	100.0	0		
q3231217.chw	IC100-B20.mtw	AC24-02 CCB135	2	1.0	1.0	1.0	100.0	0		
q3231234.chw	IC100-B20.mtw	AC24-03 ICC039WB	3	1.0	1.0	1.0	100.0	0		
q3231252.chw	IC100-B20.mtw	AC24-04 ICC039WL } Br was spiked @ 10 ppm	4	1.0	1.0	1.0	100.0	0		
q3231310.chw	IC100-B20.mtw	AC24-05 ICC039WC }	5	1.0	1.0	1.0	100.0	0		
q3231327.chw	IC100-B20.mtw	AC24-06 C586-01	6	1.0	1.0	1.0	100.0	0		
q3231347.chw	IC100-B20.mtw	AC24-07 C586-02	7	1.0	1.0	1.0	100.0	0		
q3231405.chw	IC100-B20.mtw	AC24-08 C586-03	8	1.0	1.0	1.0	100.0	0		
q3231434.chw	IC100-B20.mtw	AC24-09 C125-01 DF=4000	9	1.0	4000.0	1.0	100.0	0		
q3231501.chw	IC100-B20.mtw	AC24-10 C204-01	10	1.0	1.0	1.0	100.0	0		
q3231519.chw	IC100-B20.mtw	AC24-11 C214-01	11	1.0	1.0	1.0	100.0	0		
q3231543.chw	IC100-B20.mtw	AC24-12 C125-02 DF=1000	12	1.0	1000.0	1.0	100.0	0		
q3231602.chw	IC100-B20.mtw	AC24-13 CCV136	13	1.0	1.0	1.0	100.0	0		
q3231620.chw	IC100-B20.mtw	AC24-14 CCB136	14	1.0	1.0	1.0	100.0	0		
q3231637.chw	IC100-B20.mtw	AC24-15 C125-03 DF=1000	15	1.0	1000.0	1.0	100.0	0		
q3231655.chw	IC100-B20.mtw	AC24-16 C125-03D DF=1000	16	1.0	1000.0	1.0	100.0	0		
q3231712.chw	IC100-B20.mtw	AC24-17 C125-03M DF=1000	17	1.0	1000.0	1.0	100.0	0		
q3231730.chw	IC100-B20.mtw	AC24-18 C168-07	18	1.0	1.0	1.0	100.0	0		
q3231747.chw	IC100-B20.mtw	AC24-19 C125-04 DF=1000	19	1.0	1000.0	1.0	100.0	0		
q3231805.chw	IC100-B20.mtw	AC24-20 C125-04 DF=100	20	1.0	100.0	1.0	100.0	0		
q3231823.chw	IC100-B20.mtw	AC24-21 C125-05 DF=200	21	1.0	200.0	1.0	100.0	0		
q3231840.chw	IC100-B20.mtw	AC24-22 C125-06 DF=1000	22	1.0	1000.0	1.0	100.0	0		
q3231858.chw	IC100-B20.mtw	AC24-23 C125-06 DF=100	23	1.0	100.0	1.0	100.0	0		
q3231915.chw	IC100-B20.mtw	AC24-24 C125-07 DF=200	24	1.0	200.0	1.0	100.0	0		
q3231933.chw	IC100-B20.mtw	AC24-25 CCV137	25	1.0	1.0	1.0	100.0	0		
q3231950.chw	IC100-B20.mtw	AC24-26 CCB137	26	1.0	1.0	1.0	100.0	0		

F

5-18-98

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
anions.smt	AC24-01 CCV135	1	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-02 CCB135	2	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-03 ICC039WB	3	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-04 ICC039WL } x8r was spiked @ 10ppm	4	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-05 ICC039WC }	5	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-06 CS86-01	6	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-07 CS86-02	7	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-08 CS86-03	8	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-09 C125-01 DF=4000	9	1.0	4000.0	1.0	100.0	0	1	1		
anions.smt	AC24-10 C204-01	10	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-11 C214-01	11	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-12 C125-02 DF=1000	12	1.0	1000.0	1.0	100.0	0	1	1		
anions.smt	AC24-13 CCV136	13	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-14 CCB136	14	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-15 C125-03 DF=1000	15	1.0	1000.0	1.0	100.0	0	1	1		
anions.smt	AC24-16 C125-03D DF=1000	16	1.0	1000.0	1.0	100.0	0	1	1		
anions.smt	AC24-17 C125-03M DF=1000	17	1.0	1000.0	1.0	100.0	0	1	1		
anions.smt	AC24-18 C165-07	18	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-19 C125-04 DF=1000	19	1.0	1000.0	1.0	100.0	0	1	1		
anions.smt	AC24-20 C125-04 DF=100	20	1.0	100.0	1.0	100.0	0	1	1		
anions.smt	AC24-21 C125-05 DF=200	21	1.0	200.0	1.0	100.0	0	1	1		
anions.smt	AC24-22 C125-06 DF=1000	22	1.0	1000.0	1.0	100.0	0	1	1		
anions.smt	AC24-23 C125-06 DF=100	23	1.0	100.0	1.0	100.0	0	1	1		
anions.smt	AC24-24 C125-07 DF=200	24	1.0	200.0	1.0	100.0	0	1	1		
anions.smt	AC24-25 CCV137	25	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC24-26 CCB137	26	1.0	1.0	1.0	100.0	0	1	1		

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Book #: A100-05

Instrument No.: 100

Analytical Sequence: AC20

Method File: IC100-C20.mtw

Analytical Batch: ICC034W

Comments:

Conc. of: S1 — 0.1 ppm
S2 — 0.2
S3 — 0.5
S4 — 2.5
S5 — 5.0
S6 — 10
S7 — 20 ↓

SOP #	Rev. #
☑ EMAX-300.0	3
☐ EMAX-9056	2
☐ EMAX-	

STANDARDS ID	
ICAL	S1B-02-62-3
ICV/~~LCS/MS~~ (ak 03/20/06)	63-1
CCV	63-2
LCS	63-3

ELECTRONIC DATA ARCHIVAL	
Location	Date
☐ IC METROHM	
☐	

Analyzed By: ak

Date: 03/20/06

File Name	Method	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Calibration Level	Sample Info 1	Sample Info 2 F
q3202352.chw	IC100-C20.mtw	AC20-01 IB	1	1.0	1.0	1.0	100.0	0		
q3210016.chw	IC100-C20.mtw	AC20-02 S0	2	1.0	1.0	1.0	100.0	0		
q3210040.chw	IC100-C20.mtw	AC20-03 S1	3	1.0	1.0	1.0	100.0	1		
q3210104.chw	IC100-C20.mtw	AC20-04 S2	4	1.0	1.0	1.0	100.0	2		
q3210128.chw	IC100-C20.mtw	AC20-05 S3	5	1.0	1.0	1.0	100.0	3		
q3210152.chw	IC100-C20.mtw	AC20-06 S4	6	1.0	1.0	1.0	100.0	4		
q3210216.chw	IC100-C20.mtw	AC20-07 S5	7	1.0	1.0	1.0	100.0	5		
q3210240.chw	IC100-C20.mtw	AC20-08 S6	8	1.0	1.0	1.0	100.0	6		
q3210304.chw	IC100-C20.mtw	AC20-09 S7	9	1.0	1.0	1.0	100.0	7		
q3210328.chw	IC100-C20.mtw	AC20-10 ICV	10	1.0	1.0	1.0	100.0	0		
q3210352.chw	IC100-C20.mtw	AC20-11 ICB	11	1.0	1.0	1.0	100.0	0		
q3210416.chw	IC100-C20.mtw	AC20-12 ICC034WB	12	1.0	1.0	1.0	100.0	0		
q3210440.chw	IC100-C20.mtw	AC20-13 ICC034WL	13	1.0	1.0	1.0	100.0	0		
q3210504.chw	IC100-C20.mtw	AC20-14 ICC034WC	14	1.0	1.0	1.0	100.0	0		
q3210528.chw	IC100-C20.mtw	AC20-15 MDLW-1	15	1.0	1.0	1.0	100.0	0		
q3210552.chw	IC100-C20.mtw	AC20-16 MDLW-2	16	1.0	1.0	1.0	100.0	0		
q3210616.chw	IC100-C20.mtw	AC20-17 MDLW-3	17	1.0	1.0	1.0	100.0	0		
q3210640.chw	IC100-C20.mtw	AC20-18 MDLW-4	18	1.0	1.0	1.0	100.0	0		
q3210704.chw	IC100-C20.mtw	AC20-19 MDLW-5	19	1.0	1.0	1.0	100.0	0		
q3210729.chw	IC100-C20.mtw	AC20-20 MDLW-6	20	1.0	1.0	1.0	100.0	0		
q3210753.chw	IC100-C20.mtw	AC20-21 MDLW-7	21	1.0	1.0	1.0	100.0	0		
q3210817.chw	IC100-C20.mtw	AC20-22 CCV1	22	1.0	1.0	1.0	100.0	0		
q3210841.chw	IC100-C20.mtw	AC20-23 CCB1	23	1.0	1.0	1.0	100.0	0		
q3210905.chw	IC100-C20.mtw	AC20-24 MDLVW	24	1.0	1.0	1.0	100.0	0		
q3210929.chw	IC100-C20.mtw	AC20-25 MDLVS	25	1.0	1.0	1.0	100.0	0		

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
anions.smt	AC20-01 IB	1	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-02 S0	2	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-03 S1	3	1.0	1.0	1.0	100.0	1	1	1		
anions.smt	AC20-04 S2	4	1.0	1.0	1.0	100.0	2	1	1		
anions.smt	AC20-05 S3	5	1.0	1.0	1.0	100.0	3	1	1		
anions.smt	AC20-06 S4	6	1.0	1.0	1.0	100.0	4	1	1		
anions.smt	AC20-07 S5	7	1.0	1.0	1.0	100.0	5	1	1		
anions.smt	AC20-08 S6	8	1.0	1.0	1.0	100.0	6	1	1		
anions.smt	AC20-09 S7	9	1.0	1.0	1.0	100.0	7	1	1		
anions.smt	AC20-10 ICV	10	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-11 ICB	11	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-12 ICC034WB	12	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-13 ICC034WL	13	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-14 ICC034WC	14	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-15 MDLW-1	15	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-16 MDLW-2	16	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-17 MDLW-3	17	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-18 MDLW-4	18	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-19 MDLW-5	19	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-20 MDLW-6	20	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-21 MDLW-7	21	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-22 CCV1	22	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-23 CCB1	23	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-24 MDLTW	24	1.0	1.0	1.0	100.0	0	1	1		
anions.smt	AC20-25 MDLVS	25	1.0	1.0	1.0	100.0	0	1	1		