

LABORATORY REPORT

June 11, 2008

Robert Kennedy
ENSR
2 Technology Park Drive
Westford, MA 01886

RE: Soil Gas Sampling / 04020-023-4311

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on May 20, 2008. For your reference, these analyses have been assigned our service request number P0801483.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 1909 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.



Kelly Horiuchi
Project Manager

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Client: ENSR
Project: Soil Gas Sampling / 04020-023-4311

CAS Project No: P0801483

CASE NARRATIVE

The samples were received intact under chain of custody on May 20, 2008 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Helium Analysis

The samples were analyzed for helium according to modified EPA Method 3C using a gas chromatograph equipped with a thermal conductivity detector (TCD).

Volatile Organic Compound Analysis

The samples were also analyzed for selected volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator.

The laboratory duplicate for P0801483-002 was analyzed on 5/23/08 and again on 6/4/08. At the request of the client both sets of duplicate data have been included in the final report.

The Summa canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Therefore, any result reported below the MRL may be biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Client: ENSR

Folder: P0801483

Project: Soil Gas Sampling 04020-023-4311

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pf1 (psig)	Pi2 (Hg)	Pf2 (psig)	Cont ID	Order #	FC ID	Order #
P0801483-001.01	SG76B-05	6.0 L-Summa Canister Source	-6.1	-3.0	3.7		SC00630	8753	OA00038	8753
P0801483-002.01	SG78B-05	6.0 L-Summa Canister Source	-7.5	-3.7	3.5		SC00379	8753	OA00557	8753
P0801483-003.01	SG81B-05	6.0 L-Summa Canister Source	-5.4	-2.7	3.5		SC00380	8753	OA00765	8753
P0801483-004.01	SG79B-05	6.0 L-Summa Canister Source	-5.8	-2.8	3.5		SC00265	8753	OA00763	8753
P0801483-005.01	SG80B-05	6.0 L-Summa Canister Source	-6.6	-3.2	3.5	0.0	SC00887	8753	OA00550	8753
P0801483-006.01	SG26B-05	6.0 L-Summa Canister Source	-10.5	-5.2	3.6		SC00833	8753	OA00758	8753
P0801483-007.01	SG26B-05D	6.0 L-Summa Canister Source	-10.8	-5.3	3.5		SC00621	8753	OA00758	8753
P0801483-008.01	SG28B-05D	6.0 L-Summa Canister Source	-6.5	-3.2	3.6		SC00632	8753	OA00759	8753
P0801483-009.01	SG22B-05	6.0 L-Summa Canister Source	-6.5	-3.2	3.5		SC00957	8753	OA00757	8753
P0801483-010.01	SG86B-05	6.0 L-Summa Canister Source	-7.8	-3.8	3.5		SC00274	8753	OA00767	8753
P0801483-011.01	SG28B-05	6.0 L-Summa Canister Source	-6.4	-3.1	3.7		SC00702	8753	OA00759	8753
P0801483-012.01	SG62B-05	6.0 L-Summa Canister Source	-6.0	-2.9	3.5		SC00624	8862	OA00077	8862
P0801483-013.01	SG33B-05	6.0 L-Summa Canister Source	-13.3	-6.5	3.5		SC00322	8862	OA00569	8862
P0801483-014.01	SG82B-05	6.0 L-Summa Canister Source	-7.6	-3.7	3.7		SC00616	8753	OA00563	8753
P0801483-015.01	SG61B-05	6.0 L-Summa Canister Source	-7.1	-3.5	3.5		SC00762	8862	OA00766	8753
P0801483-016.01	SG83B-05D	6.0 L-Summa Canister Source	-9.5	-4.7	3.7		SC00869	8862	OA00556	8753
P0801483-017.01	SG83B-05	6.0 L-Summa Canister Source	-9.4	-4.6	3.6		SC00955	8862	OA00556	8753
P0801483-018.01	SG27B-05	6.0 L-Summa Canister Source	-7.6	-3.7	3.6		SC00931	8753	OA00760	8753
P0801483-019.01	SG32B-05	6.0 L-Summa Canister Source	-7.1	-3.5	3.5		SC00335	8862	OA00773	8753
P0801483-020.01	SG63B-05	6.0 L-Summa Canister Source	-6.5	-3.2	3.7		SC00994	8862	OA00769	8753
P0801483-021.01	SG16B-05	6.0 L-Summa Canister Source	-6.4	-3.1	3.5		SC00529	8862	OA00866	8862
P0801483-022.01	SG12B-05	6.0 L-Summa Canister Source	-5.8	-2.8	3.6		SC00890	8862	OA00873	8862
P0801483-023.01	SG08B-05	6.0 L-Summa Canister Source	-5.0	-2.5	3.5		SC00578	8862	OA00870	8862
P0801483-024.01	SG09B-05	6.0 L-Summa Canister Source	-7.3	-3.6	3.6		SC00924	8862	OA00867	8862
P0801483-025.01	SG11B-05	6.0 L-Summa Canister Source	-4.6	-2.3	3.5		SC00953	8862	OA00762	8862
P0801483-026.01	SG10B-05	6.0 L-Summa Canister Source	-5.7	-2.8	3.8		SC00773	8862	OA00761	8862
P0801483-027.01	SG07B-05	6.0 L-Summa Canister Source	-7.7	-3.8	3.7		SC00283	8862	OA00566	8862
P0801483-028.01	SG07B-05D	6.0 L-Summa Canister Source	-7.7	-3.8	3.7		SC00104	8862	OA00566	8862
P0801483-029.01	SG17B-05	6.0 L-Summa Canister Source	-6.7	-3.3	3.9		SC00720	8862	OA00869	8862
P0801483-030.01	SG18B-05	6.0 L-Summa Canister Source	-6.5	-3.2	3.5		SC00441	8862	OA00871	8862

Client: ENSR

Folder: P0801483

Project: Soil Gas Sampling 04020-023-4311

Detailed Sample Information

<u>CAS Sample ID</u>	<u>Client Sample ID</u>	<u>Container Type</u>	<u>Pi1 (Hg)</u>	<u>Pi1 (psig)</u>	<u>Pf1</u>	<u>Pi2 (Hg)</u>	<u>Pi2 (psig)</u>	<u>Pf2</u>	<u>Cont ID</u>	<u>Order #</u>	<u>FC ID</u>	<u>Order #</u>
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Miscellaneous Items - received

- OA00036
- AVG00463
- AVG00113
- AVG00689
- AVG00721
- OA00663
- SC00878
- AVG00503
- SC00097
- SC00861
- AVG00811
- AVG00672
- AVG00083
- AVG00199
- AVG00158
- AVG00164
- OA00081
- AVG00315
- AVG00465
- AVG00127
- AVG00064
- AVG00348
- AVG00563
- AVG00521
- AVG00312
- AVG00174
- AVG00043
- AVG00212
- SC00692
- SC00114

Client: ENSR

Folder: P0801483

Project: Soil Gas Sampling 04020-023-4311

Detailed Sample Information

<u>CAS Sample ID</u>	<u>Client Sample ID</u>	<u>Container Type</u>	<u>Pi1 (Hg)</u>	<u>Pi1 (psig)</u>	<u>Pf1</u>	<u>Pi2 (Hg)</u>	<u>Pi2 (psig)</u>	<u>Pf2</u>	<u>Cont ID</u>	<u>Order #</u>	<u>FC ID</u>	<u>Order #</u>
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AVG00422												
OA00662												
AVG00256												
SC00477												
AVG00400												
AVG00437												
OA00764												
AVG00201												
AVG00065												
AVG00180												
AVG00167												
AVG00350												
OA00090												
AVG00704												
AVG00061												
AVG00549												

Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161
 Fax (805) 526-7270



Company Name & Address (Reporting Information) ENSR 1220 Avenida Acaso Camarillo, CA 93012		Project Name Soil Gas Sampling		Project No. 04020-023-4311		CAS Project No. 20801483	
Project Manager MIKE PLACK		P.O. # / Billing Information		CAS Contact Kelly Horinuchi		Comments e.g. Actual Preservative or specific instructions	
Phone 805.388.3775		Fax 805.388.3577		Sampler (Print & Sign) Cassandra Weir		Analysis/Method and/or Analytes Helium	
Email Address for Result Reporting							
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume
5676B-05	1-6.1	5/15/08	1800	Air	S00030	0A00030	6L
5678B-05	2-7.5	5/15/08	1710	Air	S000379	0A00557	6L
5681B-05		5/16/08	1024	Air	S0000		
5681B-05	3-5.4	5/16/08	1024	Air	S000880	0A00765	6L
5679B-05	4-5.8	5/16/08	0944	Air	S000265	0A00763	6L
5680B-05	5-6.6	5/16/08	1100	Air	S000881	0A00550	6L
5620B-05	6-10.5	5/16/08	1125	Air	S000883	0A00758	6L
5620B-05D	7-10.8	5/16/08	1200	Air	S000621	0A00758	6L
5628B-05D	8-6.5	5/16/08	1416	Air	S000471	0A00764	6L
5622B-05	9-6.5	5/16/08	1225	Air	S000632	0A00759	6L
5686B-05	10-7.8	5/16/08	1333	Air	S000951	0A00757	6L
5628B-05	11-6.4	5/16/08	1353	Air	S000274	0A00767	6L
5602B-05	12-6.0	5/17/08	1447	Air	S000702	0A00759	6L
5633B-05	13-10.0	5/17/08	1538	Air	S000624	0A00077	6L
5633B-05	14-10.0	5/17/08	1538	Air	S000322	0A00564	6L

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

Project Requirements (MRLs, QAPP)
 EDD required Yes / No _____ Type: _____ EDD Units: _____

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

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

Project Requirements (MRLs, QAPP)
 EDD required Yes / No _____ Type: _____ EDD Units: _____

Air - Chain of Custody Record & Analytical Service Request



2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161
 Fax (805) 526-7270

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

CAS Project No.
96801483

Company Name & Address (Reporting Information) ENSR 1220 Avenida Acaso Camarillo, CA 93012		Project Name Soil Gas Sampling		CAS Contact Kelly Horinchi		Analysis Method and/or Analytes Helium		Comments e.g. Actual Preservative or specific instructions
Project Manager Mike Flack		Project Number 04020-023-4311		CAS Project No. 96801483				
Phone 805-340-3775		Fax 805-388-3577		Sampler (Print & Sign) Cassandra Weir				
Email Address for Result Reporting		P.O. # / Billing Information		Sample Volume				
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code # - FC #)	Sample Volume	
5992B-05	17-7-L	5/16/08	0915	Air	SC00616	DA00563	6L	X
PURGE tank		5/17/08			SC00114	DA00766		
5961B-05	15-7-L	5/17/08	1338	Air	SC00762	DA00766	6L	X
5983B-05D	16-9-S	5/17/08	1332	Air	SC00864	DA00556	6L	X
5983B-05	17-9-L	5/17/08	1300	Air	SC00955	DA00556	6L	X
5927B-05	18-7-L	5/16/08	1442	Air	SC00931	DA00760	6L	X
					SC00878	DA00662		
5932B-05	19-7-L	5/17/08	1200	Air	SC00335	DA00773	6L	X
5963B-05	20-6-S	5/17/08	1239	Air	SC00944	DA00769	6L	X
5916B-05	21-1-L	5/18/08	0947	Air	SC00539	DA00866	6L	X
5912B-05	22-5-S	5/18/08	0645	Air	SC00846	DA00873	6L	X
5908B-05	23-5-D	5/18/08	0844	Air	SC00578	DA00870	6L	X
5909B-05	24-7-S	5/18/08	0740	Air	SC00924	DA00867	6L	X

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

EDD required Yes / No _____
 Type: _____
 EDD Units: _____

Project Requirements (MRLs, OAPP) _____

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

Received by: (Signature) Cassandra Weir Date: 5/16/08 Time: 1423
 Received by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____

Cooler / Blank _____
 Temperature _____



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161
 Fax (805) 526-7270

CAS Project No.
908014183

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

Company Name & Address (Reporting Information)		Project Name		CAS Contact		Analysis Method and/or Analytes	Comments e.g. Actual Preservative or specific instructions
ENSR 1220 Avenida Acaso Camarillo, CA 93012 Project Manager Mike Plack Phone 805-3403715 Fax 805-3403517		Soil Gas Sampling Project Number 04020-023-4311 P.O. # / Billing Information		Kelly Horiuchi Helium TB-15			
Sampler (Print & Sign) Cassandra Weir							
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume
5611B-05	25-46	5/18/08	0655	Air	500153	0A00762	6L
5610B-05	29-57	5/18/08	0805	Air	500261	0A00663	6L
5607B-05	27-77	5/18/08	1020	Air	500092	0A00410	6L
5607B-05D	28-77	5/17/08	1705	Air	500283	0A00566	6L
5617B-05	29-87	5/18/08	1028	Air	500720	0A00869	6L
5618B-05	30-65	5/18/08	1055	Air	500441	0A00871	6L

Report Tier Levels - please select
 Tier I - (Results/Default if not specified) 88
 Tier II - (Results + QC) _____
 Tier III - (Data Validation Package) 10% Surcharge _____
 Tier V - (client specified) _____

EDD required Yes / No _____
 Type: _____

Relinquished by: (Signature) [Signature] Date: 5/14/08 Time: 1423
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) [Signature] Date: 5/14/08 Time: 1843
 Received by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____

Project Requirements (MRLs, QAPP) _____
 Cooler / Blank _____
 Temperature _____ °C

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: ENSR

Work order: P0801483

Project: Soil Gas Sampling / 04020-023-4311

Sample(s) received on: 5/20/2008

Date opened: 5/20/2008

by: MZAMORA

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Container(s) supplied by CAS ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Did sample container labels and/or tags agree with custody papers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cooler Temperature _____ °C Blank Temperature _____ °C | | | |
| 9 Was a trip blank received? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Trip blank supplied by CAS: Serial # _____ -TB _____ | | | |
| 10 Were custody seals on outside of cooler/Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/ Absence)	Receipt / Preservation Comments
P0801483-001.01	6.0 L Source Can					
P0801483-002.01	6.0 L Source Can					
P0801483-003.01	6.0 L Source Can					
P0801483-004.01	6.0 L Source Can					
P0801483-005.01	6.0 L Source Can					
P0801483-006.01	6.0 L Source Can					
P0801483-007.01	6.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): _____
 COC has canister SN SC00846 for sample -022, we received canister SN SC00890.
 COC has canister SN SC00539 for sample -021, we received canister SN SC00529.

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: ENSR

Work order: P0801483

Project: Soil Gas Sampling / 04020-023-4311

Sample(s) received on: 5/20/2008

Date opened: 5/20/2008

by: MZAMORA

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0801483-008.01	6.0 L Source Can					
P0801483-009.01	6.0 L Source Can					
P0801483-010.01	6.0 L Source Can					
P0801483-011.01	6.0 L Source Can					
P0801483-012.01	6.0 L Source Can					
P0801483-013.01	6.0 L Source Can					
P0801483-014.01	6.0 L Source Can					
P0801483-015.01	6.0 L Source Can					
P0801483-016.01	6.0 L Source Can					
P0801483-017.01	6.0 L Source Can					
P0801483-018.01	6.0 L Source Can					
P0801483-019.01	6.0 L Source Can					
P0801483-020.01	6.0 L Source Can					
P0801483-021.01	6.0 L Source Can					
P0801483-022.01	6.0 L Source Can					
P0801483-023.01	6.0 L Source Can					
P0801483-024.01	6.0 L Source Can					
P0801483-025.01	6.0 L Source Can					
P0801483-026.01	6.0 L Source Can					
P0801483-027.01	6.0 L Source Can					
P0801483-028.01	6.0 L Source Can					
P0801483-029.01	6.0 L Source Can					
P0801483-030.01	6.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): _____

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Helium

Test Code: EPA 3C Modified
Instrument ID: HP5890 II/GC8/TCD
Analyst: Zheng Wang/Wade Henton/Chris Cornett
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 5/15 - 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/23 - 5/27/08

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	Result ppmV	MRL ppmV	Data Qualifier
SG76B-05	P0801483-001	1.00	1.57	44	39	
SG78B-05	P0801483-002	1.00	1.65	ND	41	
SG81B-05	P0801483-003	1.00	1.52	ND	38	
SG79B-05	P0801483-004	1.00	1.53	ND	38	
SG80B-05	P0801483-005	1.00	1.58	ND	40	
SG26B-05	P0801483-006	1.00	1.93	ND	48	
SG26B-05D	P0801483-007	1.00	1.94	ND	49	
SG28B-05D	P0801483-008	1.00	1.59	ND	40	
SG22B-05	P0801483-009	1.00	1.58	ND	40	
SG86B-05	P0801483-010	1.00	1.67	83	42	
SG28B-05	P0801483-011	1.00	1.59	ND	40	
SG62B-05	P0801483-012	1.00	1.54	ND	39	
SG33B-05	P0801483-013	1.00	2.22	ND	56	
SG82B-05	P0801483-014	1.00	1.67	ND	42	
SG61B-05	P0801483-015	1.00	1.63	ND	41	
SG83B-05D	P0801483-016	1.00	1.84	ND	46	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CU Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Helium

Test Code: EPA 3C Modified
Instrument ID: HP5890 II/GC8/TCD
Analyst: Zheng Wang/Wade Henton/Chris Cornett
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 5/15 - 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/23 - 5/27/08

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	Result ppmV	MRL ppmV	Data Qualifier
SG83B-05	P0801483-017	1.00	1.81	ND	45	
SG27B-05	P0801483-018	1.00	1.66	ND	42	
SG32B-05	P0801483-019	1.00	1.63	110	41	
SG63B-05	P0801483-020	1.00	1.60	ND	40	
SG16B-05	P0801483-021	1.00	1.57	ND	39	
SG12B-05	P0801483-022	1.00	1.54	ND	39	
SG08B-05	P0801483-023	1.00	1.49	ND	37	
SG09B-05	P0801483-024	1.00	1.65	ND	41	
SG11B-05	P0801483-025	1.00	1.47	ND	37	
SG10B-05	P0801483-026	1.00	1.55	ND	39	
SG07B-05	P0801483-027	1.00	1.69	ND	42	
SG07B-05D	P0801483-028	1.00	1.69	ND	42	
SG17B-05	P0801483-029	1.00	1.63	2,100	41	
SG18B-05	P0801483-030	1.00	1.58	190	40	
Method Blank	P080523-MB	1.00	1.00	ND	25	
Method Blank	P080527-MB	1.00	1.00	ND	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: UA Date: 5/28/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG76B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00630

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/27/08
Volume(s) Analyzed: 0.10 Liter(s)
 0.010 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	3.1	7.9	0.79	0.62	1.6	0.16	J
74-87-3	Chloromethane	ND	1.6	0.79	ND	0.76	0.38	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	7.9	0.79	ND	1.1	0.11	
75-01-4	Vinyl Chloride	ND	1.6	0.79	ND	0.61	0.31	
74-83-9	Bromomethane	ND	1.6	0.79	ND	0.40	0.20	
75-00-3	Chloroethane	ND	1.6	0.79	ND	0.60	0.30	
64-17-5	Ethanol	17	79	0.79	8.9	42	0.42	J, B
67-64-1	Acetone	23	79	1.1	9.5	33	0.48	J, B
75-69-4	Trichlorofluoromethane	1.8	1.6	0.79	0.32	0.28	0.14	
107-13-1	Acrylonitrile	ND	7.9	1.1	ND	3.6	0.51	
75-35-4	1,1-Dichloroethene	50	1.6	0.79	13	0.40	0.20	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	7.9	1.2	ND	2.6	0.38	
75-09-2	Methylene Chloride	2.2	7.9	0.79	0.63	2.3	0.23	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.6	0.79	ND	0.50	0.25	
76-13-1	Trichlorotrifluoroethane	ND	1.6	0.88	ND	0.20	0.11	
75-15-0	Carbon Disulfide	7.1	7.9	1.9	2.3	2.5	0.61	J
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.79	ND	0.40	0.20	
75-34-3	1,1-Dichloroethane	1.1	1.6	0.79	0.27	0.39	0.19	J
1634-04-4	Methyl tert-Butyl Ether	1.0	1.6	0.79	0.29	0.44	0.22	J
108-05-4	Vinyl Acetate	5.1	79	2.5	1.5	22	0.71	J
78-93-3	2-Butanone (MEK)	6.0	7.9	0.79	2.0	2.7	0.27	J
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.79	ND	0.40	0.20	
108-20-3	Diisopropyl Ether	ND	7.9	0.93	ND	1.9	0.22	
67-66-3	Chloroform	8,200	1.6	0.93	1,700	0.32	0.19	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG76B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00630

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/27/08
Volume(s) Analyzed: 0.10 Liter(s)
 0.010 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	7.9	0.80	ND	1.9	0.19	
107-06-2	1,2-Dichloroethane	ND	1.6	0.79	ND	0.39	0.19	
71-55-6	1,1,1-Trichloroethane	ND	1.6	0.79	ND	0.29	0.14	
71-43-2	Benzene	3.0	1.6	0.79	0.93	0.49	0.25	
56-23-5	Carbon Tetrachloride	61	1.6	0.79	9.6	0.25	0.12	
994-05-8	tert-Amyl Methyl Ether	ND	7.9	0.79	ND	1.9	0.19	
78-87-5	1,2-Dichloropropane	0.88	1.6	0.79	0.19	0.34	0.17	J
75-27-4	Bromodichloromethane	6.4	1.6	0.79	0.96	0.23	0.12	
79-01-6	Trichloroethene	630	1.6	0.79	120	0.29	0.15	
123-91-1	1,4-Dioxane	ND	7.9	0.96	ND	2.2	0.27	
80-62-6	Methyl Methacrylate	ND	7.9	1.2	ND	1.9	0.29	
142-82-5	n-Heptane	ND	7.9	1.0	ND	1.9	0.25	
10061-01-5	cis-1,3-Dichloropropene	ND	7.9	0.82	ND	1.7	0.18	
108-10-1	4-Methyl-2-pentanone	ND	7.9	0.88	ND	1.9	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	7.9	0.99	ND	1.7	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.79	ND	0.29	0.14	
108-88-3	Toluene	4.0	7.9	0.79	1.1	2.1	0.21	J
591-78-6	2-Hexanone	ND	7.9	1.2	ND	1.9	0.29	
124-48-1	Dibromochloromethane	1.6	1.6	1.1	0.19	0.18	0.13	
106-93-4	1,2-Dibromoethane	ND	1.6	0.85	ND	0.20	0.11	
111-65-9	n-Octane	ND	7.9	0.79	ND	1.7	0.17	
127-18-4	Tetrachloroethene	25	1.6	0.79	3.6	0.23	0.12	
108-90-7	Chlorobenzene	ND	1.6	0.80	ND	0.34	0.17	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG76B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00630

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/27/08
Volume(s) Analyzed: 0.10 Liter(s)
 0.010 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	7.9	0.97	ND	1.8	0.22	
179601-23-1	m,p-Xylenes	ND	7.9	2.0	ND	1.8	0.47	
75-25-2	Bromoform	ND	7.9	1.2	ND	0.76	0.12	
100-42-5	Styrene	ND	7.9	1.2	ND	1.8	0.28	
95-47-6	o-Xylene	1.2	7.9	0.99	0.27	1.8	0.23	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	1.0	ND	0.23	0.15	
98-82-8	Cumene	ND	7.9	0.88	ND	1.6	0.18	
103-65-1	n-Propylbenzene	ND	7.9	0.82	ND	1.6	0.17	
622-96-8	4-Ethyltoluene	ND	7.9	0.89	ND	1.6	0.18	
108-67-8	1,3,5-Trimethylbenzene	ND	7.9	0.94	ND	1.6	0.19	
98-83-9	alpha-Methylstyrene	ND	7.9	1.1	ND	1.6	0.24	
95-63-6	1,2,4-Trimethylbenzene	ND	7.9	1.1	ND	1.6	0.22	
100-44-7	Benzyl Chloride	ND	1.6	1.4	ND	0.30	0.26	
541-73-1	1,3-Dichlorobenzene	ND	1.6	0.97	ND	0.26	0.16	
106-46-7	1,4-Dichlorobenzene	1.9	1.6	0.88	0.32	0.26	0.15	
135-98-8	sec-Butylbenzene	ND	7.9	0.91	ND	1.4	0.17	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	7.9	1.0	ND	1.4	0.19	
95-50-1	1,2-Dichlorobenzene	ND	1.6	1.0	ND	0.26	0.17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.9	1.2	ND	0.81	0.12	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	1.2	ND	0.21	0.16	
91-20-3	Naphthalene	1.5	3.1	1.2	0.29	0.60	0.22	J, B
87-68-3	Hexachlorobutadiene	1.8	1.6	1.4	0.17	0.15	0.13	
98-06-6	tert-Butylbenzene	ND	3.1	0.79	ND	0.57	0.14	
104-51-8	n-Butylbenzene	ND	3.1	0.79	ND	0.57	0.14	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA

Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00379

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/26/08
Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	17	1.7	0.45	3.3	0.33	J
74-87-3	Chloromethane	ND	3.3	1.7	ND	1.6	0.80	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	17	1.7	ND	2.4	0.24	
75-01-4	Vinyl Chloride	ND	3.3	1.7	ND	1.3	0.65	
74-83-9	Bromomethane	ND	3.3	1.7	ND	0.85	0.43	
75-00-3	Chloroethane	ND	3.3	1.7	ND	1.3	0.63	
64-17-5	Ethanol	16	170	1.7	8.3	88	0.88	J, B
67-64-1	Acetone	19	170	2.4	7.8	69	1.0	J, B
75-69-4	Trichlorofluoromethane	ND	3.3	1.7	ND	0.59	0.29	
107-13-1	Acrylonitrile	ND	17	2.3	ND	7.6	1.1	
75-35-4	1,1-Dichloroethene	4.5	3.3	1.7	1.1	0.83	0.42	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	17	2.4	ND	5.4	0.81	
75-09-2	Methylene Chloride	10	17	1.7	3.0	4.8	0.48	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	3.3	1.7	ND	1.1	0.53	
76-13-1	Trichlorotrifluoroethane	ND	3.3	1.8	ND	0.43	0.24	
75-15-0	Carbon Disulfide	ND	17	4.0	ND	5.3	1.3	
156-60-5	trans-1,2-Dichloroethene	ND	3.3	1.7	ND	0.83	0.42	
75-34-3	1,1-Dichloroethane	ND	3.3	1.7	ND	0.82	0.41	
1634-04-4	Methyl tert-Butyl Ether	ND	3.3	1.7	ND	0.92	0.46	
108-05-4	Vinyl Acetate	ND	170	5.3	ND	47	1.5	
78-93-3	2-Butanone (MEK)	5.0	17	1.7	1.7	5.6	0.56	J
156-59-2	cis-1,2-Dichloroethene	ND	3.3	1.7	ND	0.83	0.42	
108-20-3	Diisopropyl Ether	ND	17	1.9	ND	3.9	0.47	
67-66-3	Chloroform	7,200	3.3	1.9	1,500	0.68	0.40	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00379

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/26/08
Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	17	1.7	ND	3.9	0.40	
107-06-2	1,2-Dichloroethane	ND	3.3	1.7	ND	0.82	0.41	
71-55-6	1,1,1-Trichloroethane	ND	3.3	1.7	ND	0.61	0.30	
71-43-2	Benzene	3.7	3.3	1.7	1.2	1.0	0.52	
56-23-5	Carbon Tetrachloride	7.4	3.3	1.7	1.2	0.52	0.26	
994-05-8	tert-Amyl Methyl Ether	ND	17	1.7	ND	3.9	0.39	
78-87-5	1,2-Dichloropropane	ND	3.3	1.7	ND	0.71	0.36	
75-27-4	Bromodichloromethane	33	3.3	1.7	4.9	0.49	0.25	
79-01-6	Trichloroethene	72	3.3	1.7	13	0.61	0.31	
123-91-1	1,4-Dioxane	ND	17	2.0	ND	4.6	0.56	
80-62-6	Methyl Methacrylate	ND	17	2.5	ND	4.0	0.60	
142-82-5	n-Heptane	ND	17	2.1	ND	4.0	0.52	
10061-01-5	cis-1,3-Dichloropropene	ND	17	1.7	ND	3.6	0.38	
108-10-1	4-Methyl-2-pentanone	ND	17	1.8	ND	4.0	0.45	
10061-02-6	trans-1,3-Dichloropropene	ND	17	2.1	ND	3.6	0.46	
79-00-5	1,1,2-Trichloroethane	ND	3.3	1.7	ND	0.61	0.30	
108-88-3	Toluene	3.6	17	1.7	0.96	4.4	0.44	J
591-78-6	2-Hexanone	ND	17	2.5	ND	4.0	0.61	
124-48-1	Dibromochloromethane	19	3.3	2.2	2.2	0.39	0.26	
106-93-4	1,2-Dibromoethane	ND	3.3	1.8	ND	0.43	0.23	
111-65-9	n-Octane	ND	17	1.7	ND	3.5	0.35	
127-18-4	Tetrachloroethene	100	3.3	1.7	15	0.49	0.24	
108-90-7	Chlorobenzene	ND	3.3	1.7	ND	0.72	0.37	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/9/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00379

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/26/08
Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	17	2.0	ND	3.8	0.47	
179601-23-1	m,p-Xylenes	5.9	17	4.3	1.4	3.8	0.99	J
75-25-2	Bromoform	25	17	2.5	2.4	1.6	0.24	
100-42-5	Styrene	ND	17	2.5	ND	3.9	0.59	
95-47-6	o-Xylene	2.9	17	2.1	0.67	3.8	0.48	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.3	2.1	ND	0.48	0.31	
98-82-8	Cumene	ND	17	1.8	ND	3.4	0.38	
103-65-1	n-Propylbenzene	ND	17	1.7	ND	3.4	0.35	
622-96-8	4-Ethyltoluene	ND	17	1.9	ND	3.4	0.38	
108-67-8	1,3,5-Trimethylbenzene	ND	17	2.0	ND	3.4	0.40	
98-83-9	alpha-Methylstyrene	ND	17	2.4	ND	3.4	0.50	
95-63-6	1,2,4-Trimethylbenzene	ND	17	2.3	ND	3.4	0.46	
100-44-7	Benzyl Chloride	ND	3.3	2.8	ND	0.64	0.55	
541-73-1	1,3-Dichlorobenzene	ND	3.3	2.0	ND	0.55	0.34	
106-46-7	1,4-Dichlorobenzene	3.0	3.3	1.8	0.50	0.55	0.31	J
135-98-8	sec-Butylbenzene	ND	17	1.9	ND	3.0	0.35	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	17	2.1	ND	3.0	0.39	
95-50-1	1,2-Dichlorobenzene	ND	3.3	2.2	ND	0.55	0.36	
96-12-8	1,2-Dibromo-3-chloropropane	ND	17	2.5	ND	1.7	0.26	
120-82-1	1,2,4-Trichlorobenzene	ND	3.3	2.5	ND	0.44	0.34	
91-20-3	Naphthalene	ND	6.6	2.4	ND	1.3	0.47	
87-68-3	Hexachlorobutadiene	ND	3.3	3.0	ND	0.31	0.28	
98-06-6	tert-Butylbenzene	ND	6.6	1.7	ND	1.2	0.30	
104-51-8	n-Butylbenzene	ND	6.6	1.7	ND	1.2	0.30	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG81B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00380

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/26/08
Volume(s) Analyzed: 0.10 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): -2.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	7.6	0.76	0.44	1.5	0.15	J
74-87-3	Chloromethane	ND	1.5	0.76	ND	0.74	0.37	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	7.6	0.76	ND	1.1	0.11	
75-01-4	Vinyl Chloride	ND	1.5	0.76	ND	0.59	0.30	
74-83-9	Bromomethane	0.84	1.5	0.76	0.22	0.39	0.20	J
75-00-3	Chloroethane	ND	1.5	0.76	ND	0.58	0.29	
64-17-5	Ethanol	5.0	76	0.76	2.6	40	0.40	J, B
67-64-1	Acetone	12	76	1.1	5.1	32	0.47	J, B
75-69-4	Trichlorofluoromethane	1.2	1.5	0.76	0.21	0.27	0.14	J
107-13-1	Acrylonitrile	ND	7.6	1.1	ND	3.5	0.49	
75-35-4	1,1-Dichloroethene	0.84	1.5	0.76	0.21	0.38	0.19	J
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	7.6	1.1	ND	2.5	0.37	
75-09-2	Methylene Chloride	0.78	7.6	0.76	0.22	2.2	0.22	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.5	0.76	ND	0.49	0.24	
76-13-1	Trichlorotrifluoroethane	ND	1.5	0.85	ND	0.20	0.11	
75-15-0	Carbon Disulfide	4.2	7.6	1.8	1.3	2.4	0.59	J
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.76	ND	0.38	0.19	
75-34-3	1,1-Dichloroethane	ND	1.5	0.76	ND	0.38	0.19	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	0.76	ND	0.42	0.21	
108-05-4	Vinyl Acetate	3.1	76	2.4	0.88	22	0.69	J
78-93-3	2-Butanone (MEK)	4.7	7.6	0.76	1.6	2.6	0.26	J
156-59-2	cis-1,2-Dichloroethene	ND	1.5	0.76	ND	0.38	0.19	
108-20-3	Diisopropyl Ether	ND	7.6	0.90	ND	1.8	0.21	
67-66-3	Chloroform	2,800	1.5	0.90	580	0.31	0.18	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: LA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG81B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
CAS Sample ID: P0801483-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00380

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/26/08
Volume(s) Analyzed: 0.10 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -2.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.52

CAS #	Compound	Result <small>µg/m³</small>	MRL <small>µg/m³</small>	MDL <small>µg/m³</small>	Result <small>ppbV</small>	MRL <small>ppbV</small>	MDL <small>ppbV</small>	Data <small>Qualifier</small>
637-92-3	Ethyl tert-Butyl Ether	ND	7.6	0.78	ND	1.8	0.19	
107-06-2	1,2-Dichloroethane	ND	1.5	0.76	ND	0.38	0.19	
71-55-6	1,1,1-Trichloroethane	ND	1.5	0.76	ND	0.28	0.14	
71-43-2	Benzene	2.8	1.5	0.76	0.87	0.48	0.24	
56-23-5	Carbon Tetrachloride	15	1.5	0.76	2.4	0.24	0.12	
994-05-8	tert-Amyl Methyl Ether	ND	7.6	0.76	ND	1.8	0.18	
78-87-5	1,2-Dichloropropane	ND	1.5	0.76	ND	0.33	0.16	
75-27-4	Bromodichloromethane	ND	1.5	0.76	ND	0.23	0.11	
79-01-6	Trichloroethene	17	1.5	0.76	3.2	0.28	0.14	
123-91-1	1,4-Dioxane	ND	7.6	0.93	ND	2.1	0.26	
80-62-6	Methyl Methacrylate	ND	7.6	1.1	ND	1.9	0.28	
142-82-5	n-Heptane	ND	7.6	0.97	ND	1.9	0.24	
10061-01-5	cis-1,3-Dichloropropene	ND	7.6	0.79	ND	1.7	0.17	
108-10-1	4-Methyl-2-pentanone	ND	7.6	0.85	ND	1.9	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	7.6	0.96	ND	1.7	0.21	
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.76	ND	0.28	0.14	
108-88-3	Toluene	10	7.6	0.76	2.8	2.0	0.20	
591-78-6	2-Hexanone	ND	7.6	1.2	ND	1.9	0.28	
124-48-1	Dibromochloromethane	ND	1.5	1.0	ND	0.18	0.12	
106-93-4	1,2-Dibromoethane	ND	1.5	0.82	ND	0.20	0.11	
111-65-9	n-Octane	ND	7.6	0.76	ND	1.6	0.16	
127-18-4	Tetrachloroethene	8.0	1.5	0.76	1.2	0.22	0.11	
108-90-7	Chlorobenzene	ND	1.5	0.78	ND	0.33	0.17	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG81B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00380

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08 & 5/26/08
 Volume(s) Analyzed: 0.10 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): -2.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	7.6	0.94	ND	1.8	0.22	
179601-23-1	m,p-Xylenes	2.3	7.6	2.0	0.53	1.8	0.46	J
75-25-2	Bromoform	ND	7.6	1.2	ND	0.74	0.11	
100-42-5	Styrene	ND	7.6	1.2	ND	1.8	0.27	
95-47-6	o-Xylene	1.2	7.6	0.96	0.27	1.8	0.22	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	0.97	ND	0.22	0.14	
98-82-8	Cumene	ND	7.6	0.85	ND	1.5	0.17	
103-65-1	n-Propylbenzene	ND	7.6	0.79	ND	1.5	0.16	
622-96-8	4-Ethyltoluene	ND	7.6	0.87	ND	1.5	0.18	
108-67-8	1,3,5-Trimethylbenzene	ND	7.6	0.91	ND	1.5	0.19	
98-83-9	alpha-Methylstyrene	ND	7.6	1.1	ND	1.6	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	7.6	1.0	ND	1.5	0.21	
100-44-7	Benzyl Chloride	ND	1.5	1.3	ND	0.29	0.25	
541-73-1	1,3-Dichlorobenzene	ND	1.5	0.94	ND	0.25	0.16	
106-46-7	1,4-Dichlorobenzene	1.5	1.5	0.85	0.26	0.25	0.14	
135-98-8	sec-Butylbenzene	ND	7.6	0.88	ND	1.4	0.16	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	7.6	0.99	ND	1.4	0.18	
95-50-1	1,2-Dichlorobenzene	ND	1.5	1.0	ND	0.25	0.17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.6	1.2	ND	0.79	0.12	
120-82-1	1,2,4-Trichlorobenzene	3.3	1.5	1.2	0.44	0.20	0.16	
91-20-3	Naphthalene	ND	3.0	1.1	ND	0.58	0.21	
87-68-3	Hexachlorobutadiene	10	1.5	1.4	0.94	0.14	0.13	
98-06-6	tert-Butylbenzene	ND	3.0	0.76	ND	0.55	0.14	
104-51-8	n-Butylbenzene	ND	3.0	0.76	ND	0.55	0.14	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG79B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00265

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/23/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.77	0.077	0.43	0.15	0.015	
74-87-3	Chloromethane	0.20	0.15	0.077	0.096	0.074	0.037	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.093	0.77	0.077	0.013	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.15	0.077	ND	0.060	0.030	
74-83-9	Bromomethane	1.8	0.15	0.077	0.47	0.039	0.020	
75-00-3	Chloroethane	0.20	0.15	0.077	0.077	0.058	0.029	
64-17-5	Ethanol	14	7.7	0.077	7.7	4.1	0.041	B
67-64-1	Acetone	29	7.7	0.11	12	3.2	0.047	B
75-69-4	Trichlorofluoromethane	1.2	0.15	0.077	0.22	0.027	0.014	
107-13-1	Acrylonitrile	0.34	0.77	0.11	0.16	0.35	0.049	J
75-35-4	1,1-Dichloroethene	0.40	0.15	0.077	0.10	0.039	0.019	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	6.4	0.77	0.11	2.1	0.25	0.037	
75-09-2	Methylene Chloride	0.28	0.77	0.077	0.082	0.22	0.022	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.077	ND	0.049	0.024	
76-13-1	Trichlorotrifluoroethane	0.54	0.15	0.086	0.070	0.020	0.011	
75-15-0	Carbon Disulfide	62	0.77	0.18	20	0.25	0.059	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
75-34-3	1,1-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.077	ND	0.042	0.021	
108-05-4	Vinyl Acetate	2.1	7.7	0.24	0.60	2.2	0.070	J, M
78-93-3	2-Butanone (MEK)	9.1	0.77	0.077	3.1	0.26	0.026	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
108-20-3	Diisopropyl Ether	ND	0.77	0.090	ND	0.18	0.022	
67-66-3	Chloroform	140	0.15	0.090	29	0.031	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By:

Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG79B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00265

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.77	0.078	ND	0.18	0.019	
107-06-2	1,2-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
71-43-2	Benzene	4.2	0.15	0.077	1.3	0.048	0.024	
56-23-5	Carbon Tetrachloride	10	0.15	0.077	1.6	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.77	0.077	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.077	ND	0.033	0.017	
75-27-4	Bromodichloromethane	ND	0.15	0.077	ND	0.023	0.011	
79-01-6	Trichloroethene	10	0.15	0.077	1.9	0.028	0.014	
123-91-1	1,4-Dioxane	ND	0.77	0.093	ND	0.21	0.026	
80-62-6	Methyl Methacrylate	ND	0.77	0.11	ND	0.19	0.028	
142-82-5	n-Heptane	0.49	0.77	0.098	0.12	0.19	0.024	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.080	ND	0.17	0.018	
108-10-1	4-Methyl-2-pentanone	1.0	0.77	0.086	0.25	0.19	0.021	
10061-02-6	trans-1,3-Dichloropropene	ND	0.77	0.096	ND	0.17	0.021	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
108-88-3	Toluene	14	0.77	0.077	3.7	0.20	0.020	
591-78-6	2-Hexanone	0.85	0.77	0.12	0.21	0.19	0.028	
124-48-1	Dibromochloromethane	ND	0.15	0.10	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.083	ND	0.020	0.011	
111-65-9	n-Octane	0.97	0.77	0.077	0.21	0.16	0.016	
127-18-4	Tetrachloroethene	15	0.15	0.077	2.2	0.023	0.011	
108-90-7	Chlorobenzene	ND	0.15	0.078	ND	0.033	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG79B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00265

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/23/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	1.4	0.77	0.095	0.33	0.18	0.022	
179601-23-1	m,p-Xylenes	7.1	0.77	0.20	1.6	0.18	0.046	
75-25-2	Bromoform	ND	0.77	0.12	ND	0.074	0.011	
100-42-5	Styrene	ND	0.77	0.12	ND	0.18	0.027	
95-47-6	o-Xylene	2.9	0.77	0.096	0.66	0.18	0.022	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.098	ND	0.022	0.014	
98-82-8	Cumene	0.17	0.77	0.086	0.035	0.16	0.017	J
103-65-1	n-Propylbenzene	0.50	0.77	0.080	0.10	0.16	0.016	J
622-96-8	4-Ethyltoluene	0.85	0.77	0.087	0.17	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	0.93	0.77	0.092	0.19	0.16	0.019	
98-83-9	alpha-Methylstyrene	ND	0.77	0.11	ND	0.16	0.023	
95-63-6	1,2,4-Trimethylbenzene	3.5	0.77	0.11	0.71	0.16	0.021	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.030	0.025	
541-73-1	1,3-Dichlorobenzene	1.4	0.15	0.095	0.23	0.025	0.016	
106-46-7	1,4-Dichlorobenzene	2.9	0.15	0.086	0.48	0.025	0.014	
135-98-8	sec-Butylbenzene	0.13	0.77	0.089	0.024	0.14	0.016	J
99-87-6	4-Isopropyltoluene (p-Cymene)	1.1	0.77	0.099	0.20	0.14	0.018	
95-50-1	1,2-Dichlorobenzene	0.99	0.15	0.10	0.16	0.025	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	0.12	ND	0.079	0.012	
120-82-1	1,2,4-Trichlorobenzene	10	0.15	0.12	1.3	0.021	0.016	
91-20-3	Naphthalene	3.6	0.31	0.11	0.68	0.058	0.022	B
87-68-3	Hexachlorobutadiene	5.8	0.15	0.14	0.55	0.014	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.077	ND	0.056	0.014	
104-51-8	n-Butylbenzene	0.97	0.31	0.077	0.18	0.056	0.014	M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG80B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00887

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/24/08 & 5/26/08
 Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	11	1.1	0.45	2.1	0.21	J
74-87-3	Chloromethane	ND	2.1	1.1	ND	1.0	0.51	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	11	1.1	ND	1.5	0.15	
75-01-4	Vinyl Chloride	ND	2.1	1.1	ND	0.82	0.41	
74-83-9	Bromomethane	ND	2.1	1.1	ND	0.54	0.27	
75-00-3	Chloroethane	ND	2.1	1.1	ND	0.80	0.40	
64-17-5	Ethanol	8.8	110	1.1	4.7	56	0.56	J, B
67-64-1	Acetone	8.0	110	1.5	3.4	44	0.65	J, B
75-69-4	Trichlorofluoromethane	1.4	2.1	1.1	0.25	0.38	0.19	J
107-13-1	Acrylonitrile	ND	11	1.5	ND	4.9	0.68	
75-35-4	1,1-Dichloroethene	ND	2.1	1.1	ND	0.53	0.27	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	11	1.6	ND	3.5	0.51	
75-09-2	Methylene Chloride	2.1	11	1.1	0.59	3.0	0.30	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.1	1.1	ND	0.67	0.34	
76-13-1	Trichlorotrifluoroethane	ND	2.1	1.2	ND	0.27	0.15	
75-15-0	Carbon Disulfide	ND	11	2.5	ND	3.4	0.81	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	1.1	ND	0.53	0.27	
75-34-3	1,1-Dichloroethane	ND	2.1	1.1	ND	0.52	0.26	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	1.1	ND	0.58	0.29	
108-05-4	Vinyl Acetate	ND	110	3.4	ND	30	0.96	
78-93-3	2-Butanone (MEK)	4.2	11	1.1	1.4	3.6	0.36	J
156-59-2	cis-1,2-Dichloroethene	ND	2.1	1.1	ND	0.53	0.27	
108-20-3	Diisopropyl Ether	ND	11	1.2	ND	2.5	0.30	
67-66-3	Chloroform	4,400	2.1	1.2	900	0.43	0.25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/14/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG80B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00887

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/24/08 & 5/26/08
Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	11	1.1	ND	2.5	0.26	
107-06-2	1,2-Dichloroethane	ND	2.1	1.1	ND	0.52	0.26	
71-55-6	1,1,1-Trichloroethane	ND	2.1	1.1	ND	0.39	0.19	
71-43-2	Benzene	4.7	2.1	1.1	1.5	0.66	0.33	
56-23-5	Carbon Tetrachloride	12	2.1	1.1	1.9	0.34	0.17	
994-05-8	tert-Amyl Methyl Ether	ND	11	1.1	ND	2.5	0.25	
78-87-5	1,2-Dichloropropane	ND	2.1	1.1	ND	0.46	0.23	
75-27-4	Bromodichloromethane	4.1	2.1	1.1	0.62	0.31	0.16	
79-01-6	Trichloroethene	5.2	2.1	1.1	0.97	0.39	0.20	
123-91-1	1,4-Dioxane	ND	11	1.3	ND	2.9	0.36	
80-62-6	Methyl Methacrylate	ND	11	1.6	ND	2.6	0.39	
142-82-5	n-Heptane	ND	11	1.3	ND	2.6	0.33	
10061-01-5	cis-1,3-Dichloropropene	ND	11	1.1	ND	2.3	0.24	
108-10-1	4-Methyl-2-pentanone	ND	11	1.2	ND	2.6	0.29	
10061-02-6	trans-1,3-Dichloropropene	ND	11	1.3	ND	2.3	0.29	
79-00-5	1,1,2-Trichloroethane	ND	2.1	1.1	ND	0.39	0.19	
108-88-3	Toluene	8.7	11	1.1	2.3	2.8	0.28	J
591-78-6	2-Hexanone	ND	11	1.6	ND	2.6	0.39	
124-48-1	Dibromochloromethane	ND	2.1	1.4	ND	0.25	0.17	
106-93-4	1,2-Dibromoethane	ND	2.1	1.1	ND	0.27	0.15	
111-65-9	n-Octane	ND	11	1.1	ND	2.3	0.23	
127-18-4	Tetrachloroethene	32	2.1	1.1	4.7	0.31	0.16	
108-90-7	Chlorobenzene	1.1	2.1	1.1	0.25	0.46	0.23	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG80B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00887

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/24/08 & 5/26/08
Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	11	1.3	ND	2.4	0.30	
179601-23-1	m,p-Xylenes	3.0	11	2.7	0.69	2.4	0.63	J
75-25-2	Bromoform	ND	11	1.6	ND	1.0	0.15	
100-42-5	Styrene	ND	11	1.6	ND	2.5	0.38	
95-47-6	o-Xylene	1.6	11	1.3	0.38	2.4	0.31	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	1.3	ND	0.31	0.20	
98-82-8	Cumene	ND	11	1.2	ND	2.1	0.24	
103-65-1	n-Propylbenzene	ND	11	1.1	ND	2.1	0.22	
622-96-8	4-Ethyltoluene	ND	11	1.2	ND	2.1	0.24	
108-67-8	1,3,5-Trimethylbenzene	ND	11	1.3	ND	2.1	0.26	
98-83-9	alpha-Methylstyrene	ND	11	1.5	ND	2.2	0.32	
95-63-6	1,2,4-Trimethylbenzene	ND	11	1.5	ND	2.1	0.30	
100-44-7	Benzyl Chloride	ND	2.1	1.8	ND	0.41	0.35	
541-73-1	1,3-Dichlorobenzene	12	2.1	1.3	2.0	0.35	0.22	
106-46-7	1,4-Dichlorobenzene	7.4	2.1	1.2	1.2	0.35	0.20	
135-98-8	sec-Butylbenzene	ND	11	1.2	ND	1.9	0.22	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	11	1.4	ND	1.9	0.25	
95-50-1	1,2-Dichlorobenzene	8.4	2.1	1.4	1.4	0.35	0.23	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.6	ND	1.1	0.17	
120-82-1	1,2,4-Trichlorobenzene	6.2	2.1	1.6	0.83	0.28	0.22	
91-20-3	Naphthalene	2.4	4.2	1.6	0.45	0.80	0.30	J, B
87-68-3	Hexachlorobutadiene	230	2.1	1.9	21	0.20	0.18	
98-06-6	tert-Butylbenzene	ND	4.2	1.1	ND	0.77	0.19	
104-51-8	n-Butylbenzene	ND	4.2	1.1	ND	0.77	0.19	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG26B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00833

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/24/08 & 5/26/08
Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -5.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	13	1.3	0.46	2.6	0.26	J
74-87-3	Chloromethane	ND	2.6	1.3	ND	1.2	0.62	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	13	1.3	ND	1.8	0.18	
75-01-4	Vinyl Chloride	ND	2.6	1.3	ND	1.0	0.50	
74-83-9	Bromomethane	ND	2.6	1.3	ND	0.66	0.33	
75-00-3	Chloroethane	ND	2.6	1.3	ND	0.98	0.49	
64-17-5	Ethanol	2.7	130	1.3	1.4	68	0.68	J, B
67-64-1	Acetone	13	130	1.9	5.6	54	0.79	J, B
75-69-4	Trichlorofluoromethane	ND	2.6	1.3	ND	0.46	0.23	
107-13-1	Acrylonitrile	ND	13	1.8	ND	5.9	0.83	
75-35-4	1,1-Dichloroethene	3.9	2.6	1.3	0.99	0.65	0.32	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	13	1.9	ND	4.2	0.63	
75-09-2	Methylene Chloride	1.8	13	1.3	0.53	3.7	0.37	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.6	1.3	ND	0.82	0.41	
76-13-1	Trichlorotrifluoroethane	ND	2.6	1.4	ND	0.34	0.19	
75-15-0	Carbon Disulfide	ND	13	3.1	ND	4.1	0.99	
156-60-5	trans-1,2-Dichloroethene	ND	2.6	1.3	ND	0.65	0.32	
75-34-3	1,1-Dichloroethane	ND	2.6	1.3	ND	0.64	0.32	
1634-04-4	Methyl tert-Butyl Ether	ND	2.6	1.3	ND	0.71	0.36	
108-05-4	Vinyl Acetate	ND	130	4.1	ND	37	1.2	
78-93-3	2-Butanone (MEK)	4.5	13	1.3	1.5	4.4	0.44	J
156-59-2	cis-1,2-Dichloroethene	ND	2.6	1.3	ND	0.65	0.32	
108-20-3	Diisopropyl Ether	ND	13	1.5	ND	3.1	0.36	
67-66-3	Chloroform	4,600	2.6	1.5	940	0.53	0.31	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG26B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00833

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/24/08 & 5/26/08
Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -5.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	13	1.3	ND	3.1	0.31	
107-06-2	1,2-Dichloroethane	ND	2.6	1.3	ND	0.64	0.32	
71-55-6	1,1,1-Trichloroethane	ND	2.6	1.3	ND	0.47	0.24	
71-43-2	Benzene	3.8	2.6	1.3	1.2	0.81	0.40	
56-23-5	Carbon Tetrachloride	17	2.6	1.3	2.7	0.41	0.20	
994-05-8	tert-Amyl Methyl Ether	ND	13	1.3	ND	3.1	0.31	
78-87-5	1,2-Dichloropropane	ND	2.6	1.3	ND	0.56	0.28	
75-27-4	Bromodichloromethane	ND	2.6	1.3	ND	0.38	0.19	
79-01-6	Trichloroethene	77	2.6	1.3	14	0.48	0.24	
123-91-1	1,4-Dioxane	ND	13	1.6	ND	3.6	0.44	
80-62-6	Methyl Methacrylate	ND	13	1.9	ND	3.1	0.47	
142-82-5	n-Heptane	ND	13	1.6	ND	3.1	0.40	
10061-01-5	cis-1,3-Dichloropropene	ND	13	1.3	ND	2.8	0.29	
108-10-1	4-Methyl-2-pentanone	ND	13	1.4	ND	3.1	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	13	1.6	ND	2.8	0.36	
79-00-5	1,1,2-Trichloroethane	ND	2.6	1.3	ND	0.47	0.24	
108-88-3	Toluene	6.4	13	1.3	1.7	3.4	0.34	J
591-78-6	2-Hexanone	ND	13	2.0	ND	3.1	0.48	
124-48-1	Dibromochloromethane	ND	2.6	1.7	ND	0.30	0.21	
106-93-4	1,2-Dibromoethane	ND	2.6	1.4	ND	0.33	0.18	
111-65-9	n-Octane	ND	13	1.3	ND	2.8	0.28	
127-18-4	Tetrachloroethene	13	2.6	1.3	1.9	0.38	0.19	
108-90-7	Chlorobenzene	2.7	2.6	1.3	0.58	0.56	0.29	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:

Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG26B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00833

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/24/08 & 5/26/08
Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -5.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	13	1.6	ND	3.0	0.37	
179601-23-1	m,p-Xylenes	ND	13	3.3	ND	3.0	0.77	
75-25-2	Bromoform	ND	13	2.0	ND	1.2	0.19	
100-42-5	Styrene	ND	13	2.0	ND	3.0	0.46	
95-47-6	o-Xylene	ND	13	1.6	ND	3.0	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	1.6	ND	0.37	0.24	
98-82-8	Cumene	ND	13	1.4	ND	2.6	0.29	
103-65-1	n-Propylbenzene	ND	13	1.3	ND	2.6	0.27	
622-96-8	4-Ethyltoluene	ND	13	1.5	ND	2.6	0.30	
108-67-8	1,3,5-Trimethylbenzene	ND	13	1.5	ND	2.6	0.31	
98-83-9	alpha-Methylstyrene	ND	13	1.9	ND	2.7	0.39	
95-63-6	1,2,4-Trimethylbenzene	ND	13	1.8	ND	2.6	0.36	
100-44-7	Benzyl Chloride	ND	2.6	2.2	ND	0.50	0.43	
541-73-1	1,3-Dichlorobenzene	ND	2.6	1.6	ND	0.43	0.27	
106-46-7	1,4-Dichlorobenzene	4.9	2.6	1.4	0.81	0.43	0.24	
135-98-8	sec-Butylbenzene	ND	13	1.5	ND	2.3	0.27	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	13	1.7	ND	2.3	0.30	
95-50-1	1,2-Dichlorobenzene	ND	2.6	1.7	ND	0.43	0.28	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	2.0	ND	1.3	0.20	
120-82-1	1,2,4-Trichlorobenzene	ND	2.6	2.0	ND	0.35	0.26	
91-20-3	Naphthalene	ND	5.1	1.9	ND	0.98	0.36	
87-68-3	Hexachlorobutadiene	79	2.6	2.3	7.4	0.24	0.22	
98-06-6	tert-Butylbenzene	ND	5.1	1.3	ND	0.94	0.23	
104-51-8	n-Butylbenzene	ND	5.1	1.3	ND	0.94	0.23	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG26B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00621

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/26/08
Volume(s) Analyzed: 0.20 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -5.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	4.9	0.49	0.42	0.98	0.098	J
74-87-3	Chloromethane	ND	0.97	0.49	ND	0.47	0.23	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	4.9	0.49	ND	0.69	0.069	
75-01-4	Vinyl Chloride	ND	0.97	0.49	ND	0.38	0.19	
74-83-9	Bromomethane	ND	0.97	0.49	ND	0.25	0.12	
75-00-3	Chloroethane	ND	0.97	0.49	ND	0.37	0.18	
64-17-5	Ethanol	3.5	49	0.49	1.8	26	0.26	J
67-64-1	Acetone	11	49	0.71	4.7	20	0.30	J, B
75-69-4	Trichlorofluoromethane	1.1	0.97	0.49	0.20	0.17	0.086	
107-13-1	Acrylonitrile	ND	4.9	0.68	ND	2.2	0.31	
75-35-4	1,1-Dichloroethene	3.1	0.97	0.49	0.79	0.24	0.12	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	4.9	0.72	ND	1.6	0.24	
75-09-2	Methylene Chloride	0.98	4.9	0.49	0.28	1.4	0.14	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.97	0.49	ND	0.31	0.16	
76-13-1	Trichlorotrifluoroethane	ND	0.97	0.54	ND	0.13	0.071	
75-15-0	Carbon Disulfide	ND	4.9	1.2	ND	1.6	0.37	
156-60-5	trans-1,2-Dichloroethene	ND	0.97	0.49	ND	0.24	0.12	
75-34-3	1,1-Dichloroethane	ND	0.97	0.49	ND	0.24	0.12	
1634-04-4	Methyl tert-Butyl Ether	ND	0.97	0.49	ND	0.27	0.13	
108-05-4	Vinyl Acetate	2.2	49	1.6	0.63	14	0.44	J
78-93-3	2-Butanone (MEK)	3.7	4.9	0.49	1.3	1.6	0.16	J
156-59-2	cis-1,2-Dichloroethene	ND	0.97	0.49	ND	0.24	0.12	
108-20-3	Diisopropyl Ether	ND	4.9	0.57	ND	1.2	0.14	
67-66-3	Chloroform	4,500	0.97	0.57	930	0.20	0.12	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG26B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00621

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/26/08
 Volume(s) Analyzed: 0.20 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -5.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	4.9	0.49	ND	1.2	0.12	
107-06-2	1,2-Dichloroethane	ND	0.97	0.49	ND	0.24	0.12	
71-55-6	1,1,1-Trichloroethane	ND	0.97	0.49	ND	0.18	0.089	
71-43-2	Benzene	2.6	0.97	0.49	0.82	0.30	0.15	
56-23-5	Carbon Tetrachloride	16	0.97	0.49	2.5	0.15	0.077	
994-05-8	tert-Amyl Methyl Ether	ND	4.9	0.49	ND	1.2	0.12	
78-87-5	1,2-Dichloropropane	ND	0.97	0.49	ND	0.21	0.10	
75-27-4	Bromodichloromethane	1.1	0.97	0.49	0.17	0.14	0.072	
79-01-6	Trichloroethene	76	0.97	0.49	14	0.18	0.090	
123-91-1	1,4-Dioxane	ND	4.9	0.59	ND	1.3	0.16	
80-62-6	Methyl Methacrylate	ND	4.9	0.73	ND	1.2	0.18	
142-82-5	n-Heptane	ND	4.9	0.62	ND	1.2	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	0.50	ND	1.1	0.11	
108-10-1	4-Methyl-2-pentanone	ND	4.9	0.54	ND	1.2	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	0.61	ND	1.1	0.13	
79-00-5	1,1,2-Trichloroethane	ND	0.97	0.49	ND	0.18	0.089	
108-88-3	Toluene	10	4.9	0.49	2.8	1.3	0.13	
591-78-6	2-Hexanone	ND	4.9	0.74	ND	1.2	0.18	
124-48-1	Dibromochloromethane	ND	0.97	0.66	ND	0.11	0.077	
106-93-4	1,2-Dibromoethane	ND	0.97	0.52	ND	0.13	0.068	
111-65-9	n-Octane	ND	4.9	0.49	ND	1.0	0.10	
127-18-4	Tetrachloroethene	13	0.97	0.49	1.9	0.14	0.072	
108-90-7	Chlorobenzene	2.6	0.97	0.49	0.57	0.21	0.11	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: ENSR
Client Sample ID: SG26B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
CAS Sample ID: P0801483-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00621

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/26/08
Volume(s) Analyzed: 0.20 Liter(s)
0.025 Liter(s)

Initial Pressure (psig): -5.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

Table with 9 columns: CAS #, Compound, Result (µg/m³), MRL (µg/m³), MDL (µg/m³), Result (ppbV), MRL (ppbV), MDL (ppbV), Data Qualifier. Rows list various compounds like Ethylbenzene, m,p-Xylenes, Bromoform, Styrene, o-Xylene, 1,1,2,2-Tetrachloroethane, Cumene, n-Propylbenzene, 4-Ethyltoluene, 1,3,5-Trimethylbenzene, alpha-Methylstyrene, 1,2,4-Trimethylbenzene, Benzyl Chloride, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, sec-Butylbenzene, 4-Isopropyltoluene (p-Cymene), 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, Naphthalene, Hexachlorobutadiene, tert-Butylbenzene, n-Butylbenzene.

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG28B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00632

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/26/08
 Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	5.3	0.53	0.42	1.1	0.11	J
74-87-3	Chloromethane	ND	1.1	0.53	ND	0.51	0.26	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	5.3	0.53	ND	0.76	0.076	
75-01-4	Vinyl Chloride	ND	1.1	0.53	ND	0.41	0.21	
74-83-9	Bromomethane	ND	1.1	0.53	ND	0.27	0.14	
75-00-3	Chloroethane	ND	1.1	0.53	ND	0.40	0.20	
64-17-5	Ethanol	3.2	53	0.53	1.7	28	0.28	J
67-64-1	Acetone	22	53	0.77	9.2	22	0.33	J, B
75-69-4	Trichlorofluoromethane	1.2	1.1	0.53	0.21	0.19	0.094	
107-13-1	Acrylonitrile	ND	5.3	0.74	ND	2.4	0.34	
75-35-4	1,1-Dichloroethene	26	1.1	0.53	6.7	0.27	0.13	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	5.3	0.78	ND	1.7	0.26	
75-09-2	Methylene Chloride	0.87	5.3	0.53	0.25	1.5	0.15	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.1	0.53	ND	0.34	0.17	
76-13-1	Trichlorotrifluoroethane	ND	1.1	0.59	ND	0.14	0.077	
75-15-0	Carbon Disulfide	2.9	5.3	1.3	0.95	1.7	0.41	J
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.53	ND	0.27	0.13	
75-34-3	1,1-Dichloroethane	0.84	1.1	0.53	0.21	0.26	0.13	J
1634-04-4	Methyl tert-Butyl Ether	ND	1.1	0.53	ND	0.29	0.15	
108-05-4	Vinyl Acetate	4.3	53	1.7	1.2	15	0.48	J
78-93-3	2-Butanone (MEK)	4.3	5.3	0.53	1.5	1.8	0.18	J
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.53	ND	0.27	0.13	
108-20-3	Diisopropyl Ether	ND	5.3	0.63	ND	1.3	0.15	
67-66-3	Chloroform	5,900	1.1	0.63	1,200	0.22	0.13	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Car Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG28B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00632

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/26/08
Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	5.3	0.54	ND	1.3	0.13	
107-06-2	1,2-Dichloroethane	ND	1.1	0.53	ND	0.26	0.13	
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.53	ND	0.19	0.097	
71-43-2	Benzene	3.1	1.1	0.53	0.96	0.33	0.17	
56-23-5	Carbon Tetrachloride	25	1.1	0.53	4.0	0.17	0.084	
994-05-8	tert-Amyl Methyl Ether	ND	5.3	0.53	ND	1.3	0.13	
78-87-5	1,2-Dichloropropane	ND	1.1	0.53	ND	0.23	0.11	
75-27-4	Bromodichloromethane	1.5	1.1	0.53	0.22	0.16	0.079	
79-01-6	Trichloroethene	580	1.1	0.53	110	0.20	0.099	
123-91-1	1,4-Dioxane	ND	5.3	0.65	ND	1.5	0.18	
80-62-6	Methyl Methacrylate	ND	5.3	0.80	ND	1.3	0.19	
142-82-5	n-Heptane	ND	5.3	0.68	ND	1.3	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	0.55	ND	1.2	0.12	
108-10-1	4-Methyl-2-pentanone	ND	5.3	0.59	ND	1.3	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	0.67	ND	1.2	0.15	
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.53	ND	0.19	0.097	
108-88-3	Toluene	1.9	5.3	0.53	0.51	1.4	0.14	J
591-78-6	2-Hexanone	ND	5.3	0.81	ND	1.3	0.20	
124-48-1	Dibromochloromethane	ND	1.1	0.72	ND	0.12	0.085	
106-93-4	1,2-Dibromoethane	ND	1.1	0.57	ND	0.14	0.075	
111-65-9	n-Octane	ND	5.3	0.53	ND	1.1	0.11	
127-18-4	Tetrachloroethene	41	1.1	0.53	6.1	0.16	0.078	
108-90-7	Chlorobenzene	1.3	1.1	0.54	0.29	0.23	0.12	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:

Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG28B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00632

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/26/08
 Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	5.3	0.66	ND	1.2	0.15	
179601-23-1	m,p-Xylenes	ND	5.3	1.4	ND	1.2	0.32	
75-25-2	Bromoform	ND	5.3	0.81	ND	0.51	0.078	
100-42-5	Styrene	ND	5.3	0.81	ND	1.2	0.19	
95-47-6	o-Xylene	0.92	5.3	0.67	0.21	1.2	0.15	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.68	ND	0.15	0.099	
98-82-8	Cumene	ND	5.3	0.59	ND	1.1	0.12	
103-65-1	n-Propylbenzene	ND	5.3	0.55	ND	1.1	0.11	
622-96-8	4-Ethyltoluene	ND	5.3	0.60	ND	1.1	0.12	
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	0.64	ND	1.1	0.13	
98-83-9	alpha-Methylstyrene	ND	5.3	0.77	ND	1.1	0.16	
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	0.73	ND	1.1	0.15	
100-44-7	Benzyl Chloride	ND	1.1	0.91	ND	0.20	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.66	ND	0.18	0.11	
106-46-7	1,4-Dichlorobenzene	3.7	1.1	0.59	0.61	0.18	0.099	
135-98-8	sec-Butylbenzene	ND	5.3	0.61	ND	0.97	0.11	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	5.3	0.69	ND	0.97	0.13	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.70	ND	0.18	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.3	0.81	ND	0.55	0.083	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.81	ND	0.14	0.11	
91-20-3	Naphthalene	1.1	2.1	0.78	0.21	0.40	0.15	J
87-68-3	Hexachlorobutadiene	ND	1.1	0.95	ND	0.099	0.089	
98-06-6	tert-Butylbenzene	ND	2.1	0.53	ND	0.39	0.097	
104-51-8	n-Butylbenzene	ND	2.1	0.53	ND	0.39	0.097	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG22B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00957

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.50 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.6	0.16	0.41	0.32	0.032	
74-87-3	Chloromethane	ND	0.32	0.16	ND	0.15	0.077	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.16	ND	0.23	0.023	
75-01-4	Vinyl Chloride	ND	0.32	0.16	ND	0.12	0.062	
74-83-9	Bromomethane	ND	0.32	0.16	ND	0.081	0.041	
75-00-3	Chloroethane	ND	0.32	0.16	ND	0.12	0.060	
64-17-5	Ethanol	5.5	16	0.16	2.9	8.4	0.084	J
67-64-1	Acetone	30	16	0.23	12	6.7	0.097	B
75-69-4	Trichlorofluoromethane	1.1	0.32	0.16	0.19	0.056	0.028	
107-13-1	Acrylonitrile	ND	1.6	0.22	ND	0.73	0.10	
75-35-4	1,1-Dichloroethene	0.57	0.32	0.16	0.14	0.080	0.040	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.82	1.6	0.23	0.27	0.52	0.077	J
75-09-2	Methylene Chloride	1.2	1.6	0.16	0.36	0.45	0.045	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.32	0.16	ND	0.10	0.050	
76-13-1	Trichlorotrifluoroethane	0.50	0.32	0.18	0.065	0.041	0.023	
75-15-0	Carbon Disulfide	0.78	1.6	0.38	0.25	0.51	0.12	J
156-60-5	trans-1,2-Dichloroethene	ND	0.32	0.16	ND	0.080	0.040	
75-34-3	1,1-Dichloroethane	ND	0.32	0.16	ND	0.078	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.32	0.16	ND	0.088	0.044	
108-05-4	Vinyl Acetate	4.9	16	0.51	1.4	4.5	0.14	J
78-93-3	2-Butanone (MEK)	5.3	1.6	0.16	1.8	0.54	0.054	
156-59-2	cis-1,2-Dichloroethene	0.18	0.32	0.16	0.045	0.080	0.040	J
108-20-3	Diisopropyl Ether	ND	1.6	0.19	ND	0.38	0.045	
67-66-3	Chloroform	1,300	0.32	0.19	270	0.065	0.038	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG22B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00957

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.50 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.6	0.16	ND	0.38	0.039	
107-06-2	1,2-Dichloroethane	ND	0.32	0.16	ND	0.078	0.039	
71-55-6	1,1,1-Trichloroethane	ND	0.32	0.16	ND	0.058	0.029	
71-43-2	Benzene	2.2	0.32	0.16	0.70	0.099	0.049	
56-23-5	Carbon Tetrachloride	2.1	0.32	0.16	0.33	0.050	0.025	
994-05-8	tert-Amyl Methyl Ether	ND	1.6	0.16	ND	0.38	0.038	
78-87-5	1,2-Dichloropropane	ND	0.32	0.16	ND	0.068	0.034	
75-27-4	Bromodichloromethane	0.47	0.32	0.16	0.070	0.047	0.024	
79-01-6	Trichloroethene	1.2	0.32	0.16	0.22	0.059	0.029	
123-91-1	1,4-Dioxane	ND	1.6	0.19	ND	0.44	0.054	
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.39	0.058	
142-82-5	n-Heptane	ND	1.6	0.20	ND	0.39	0.049	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.16	ND	0.35	0.036	
108-10-1	4-Methyl-2-pentanone	0.26	1.6	0.18	0.062	0.39	0.043	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.20	ND	0.35	0.044	
79-00-5	1,1,2-Trichloroethane	ND	0.32	0.16	ND	0.058	0.029	
108-88-3	Toluene	8.9	1.6	0.16	2.4	0.42	0.042	
591-78-6	2-Hexanone	0.53	1.6	0.24	0.13	0.39	0.059	J
124-48-1	Dibromochloromethane	ND	0.32	0.21	ND	0.037	0.025	
106-93-4	1,2-Dibromoethane	ND	0.32	0.17	ND	0.041	0.022	
111-65-9	n-Octane	0.16	1.6	0.16	0.035	0.34	0.034	J
127-18-4	Tetrachloroethene	18	0.32	0.16	2.7	0.047	0.023	
108-90-7	Chlorobenzene	1.1	0.32	0.16	0.23	0.069	0.035	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG22B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00957

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.50 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	1.6	1.6	0.20	0.38	0.36	0.045	
179601-23-1	m,p-Xylenes	7.4	1.6	0.41	1.7	0.36	0.095	
75-25-2	Bromoform	ND	1.6	0.24	ND	0.15	0.023	
100-42-5	Styrene	0.33	1.6	0.24	0.079	0.37	0.056	J
95-47-6	o-Xylene	2.8	1.6	0.20	0.64	0.36	0.046	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.32	0.20	ND	0.046	0.029	
98-82-8	Cumene	ND	1.6	0.18	ND	0.32	0.036	
103-65-1	n-Propylbenzene	0.28	1.6	0.16	0.058	0.32	0.033	J
622-96-8	4-Ethyltoluene	0.42	1.6	0.18	0.086	0.32	0.037	J
108-67-8	1,3,5-Trimethylbenzene	0.32	1.6	0.19	0.066	0.32	0.039	J
98-83-9	alpha-Methylstyrene	ND	1.6	0.23	ND	0.33	0.048	
95-63-6	1,2,4-Trimethylbenzene	1.0	1.6	0.22	0.21	0.32	0.044	J
100-44-7	Benzyl Chloride	ND	0.32	0.27	ND	0.061	0.053	
541-73-1	1,3-Dichlorobenzene	0.21	0.32	0.20	0.035	0.053	0.033	J
106-46-7	1,4-Dichlorobenzene	11	0.32	0.18	1.9	0.053	0.029	
135-98-8	sec-Butylbenzene	ND	1.6	0.18	ND	0.29	0.033	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.23	1.6	0.21	0.043	0.29	0.037	J
95-50-1	1,2-Dichlorobenzene	0.64	0.32	0.21	0.11	0.053	0.035	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.24	ND	0.16	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	0.32	0.24	ND	0.043	0.032	
91-20-3	Naphthalene	1.8	0.63	0.23	0.34	0.12	0.045	
87-68-3	Hexachlorobutadiene	19	0.32	0.28	1.8	0.030	0.027	
98-06-6	tert-Butylbenzene	ND	0.63	0.16	ND	0.12	0.029	
104-51-8	n-Butylbenzene	0.34	0.63	0.16	0.062	0.12	0.029	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: C4 Date: 6/14/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG86B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00274

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	11	1.1	0.41	2.3	0.23	J
74-87-3	Chloromethane	ND	2.2	1.1	ND	1.1	0.54	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	11	1.1	ND	1.6	0.16	
75-01-4	Vinyl Chloride	ND	2.2	1.1	ND	0.87	0.44	
74-83-9	Bromomethane	ND	2.2	1.1	ND	0.57	0.29	
75-00-3	Chloroethane	ND	2.2	1.1	ND	0.84	0.42	
64-17-5	Ethanol	23	110	1.1	12	59	0.59	J
67-64-1	Acetone	19	110	1.6	7.9	47	0.68	J, B
75-69-4	Trichlorofluoromethane	1.2	2.2	1.1	0.21	0.40	0.20	J
107-13-1	Acrylonitrile	ND	11	1.6	ND	5.1	0.72	
75-35-4	1,1-Dichloroethene	2.5	2.2	1.1	0.63	0.56	0.28	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	11	1.6	ND	3.7	0.54	
75-09-2	Methylene Chloride	2.4	11	1.1	0.71	3.2	0.32	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.2	1.1	ND	0.71	0.36	
76-13-1	Trichlorotrifluoroethane	ND	2.2	1.2	ND	0.29	0.16	
75-15-0	Carbon Disulfide	5.5	11	2.7	1.8	3.6	0.86	J
156-60-5	trans-1,2-Dichloroethene	ND	2.2	1.1	ND	0.56	0.28	
75-34-3	1,1-Dichloroethane	ND	2.2	1.1	ND	0.55	0.28	
1634-04-4	Methyl tert-Butyl Ether	ND	2.2	1.1	ND	0.62	0.31	
108-05-4	Vinyl Acetate	6.7	110	3.6	1.9	32	1.0	J
78-93-3	2-Butanone (MEK)	5.8	11	1.1	2.0	3.8	0.38	J
156-59-2	cis-1,2-Dichloroethene	ND	2.2	1.1	ND	0.56	0.28	
108-20-3	Diisopropyl Ether	ND	11	1.3	ND	2.7	0.31	
67-66-3	Chloroform	4,700	2.2	1.3	970	0.46	0.27	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: LA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG86B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00274

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	11	1.1	ND	2.7	0.27	
107-06-2	1,2-Dichloroethane	ND	2.2	1.1	ND	0.55	0.28	
71-55-6	1,1,1-Trichloroethane	ND	2.2	1.1	ND	0.41	0.20	
71-43-2	Benzene	3.2	2.2	1.1	1.0	0.70	0.35	
56-23-5	Carbon Tetrachloride	9.4	2.2	1.1	1.5	0.35	0.18	
994-05-8	tert-Amyl Methyl Ether	ND	11	1.1	ND	2.7	0.27	
78-87-5	1,2-Dichloropropane	ND	2.2	1.1	ND	0.48	0.24	
75-27-4	Bromodichloromethane	2.4	2.2	1.1	0.36	0.33	0.17	
79-01-6	Trichloroethene	4.3	2.2	1.1	0.80	0.41	0.21	
123-91-1	1,4-Dioxane	ND	11	1.4	ND	3.1	0.38	
80-62-6	Methyl Methacrylate	ND	11	1.7	ND	2.7	0.41	
142-82-5	n-Heptane	ND	11	1.4	ND	2.7	0.35	
10061-01-5	cis-1,3-Dichloropropene	ND	11	1.2	ND	2.5	0.26	
108-10-1	4-Methyl-2-pentanone	ND	11	1.2	ND	2.7	0.30	
10061-02-6	trans-1,3-Dichloropropene	ND	11	1.4	ND	2.5	0.31	
79-00-5	1,1,2-Trichloroethane	ND	2.2	1.1	ND	0.41	0.20	
108-88-3	Toluene	4.8	11	1.1	1.3	3.0	0.30	J
591-78-6	2-Hexanone	ND	11	1.7	ND	2.7	0.41	
124-48-1	Dibromochloromethane	ND	2.2	1.5	ND	0.26	0.18	
106-93-4	1,2-Dibromoethane	ND	2.2	1.2	ND	0.29	0.16	
111-65-9	n-Octane	ND	11	1.1	ND	2.4	0.24	
127-18-4	Tetrachloroethene	52	2.2	1.1	7.7	0.33	0.16	
108-90-7	Chlorobenzene	ND	2.2	1.1	ND	0.48	0.25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: LA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG86B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00274

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	11	1.4	ND	2.6	0.32	
179601-23-1	m,p-Xylenes	ND	11	2.9	ND	2.6	0.67	
75-25-2	Bromoform	ND	11	1.7	ND	1.1	0.16	
100-42-5	Styrene	ND	11	1.7	ND	2.6	0.40	
95-47-6	o-Xylene	ND	11	1.4	ND	2.6	0.32	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	1.4	ND	0.32	0.21	
98-82-8	Cumene	ND	11	1.2	ND	2.3	0.25	
103-65-1	n-Propylbenzene	ND	11	1.2	ND	2.3	0.24	
622-96-8	4-Ethyltoluene	ND	11	1.3	ND	2.3	0.26	
108-67-8	1,3,5-Trimethylbenzene	ND	11	1.3	ND	2.3	0.27	
98-83-9	alpha-Methylstyrene	ND	11	1.6	ND	2.3	0.34	
95-63-6	1,2,4-Trimethylbenzene	ND	11	1.5	ND	2.3	0.31	
100-44-7	Benzyl Chloride	ND	2.2	1.9	ND	0.43	0.37	
541-73-1	1,3-Dichlorobenzene	3.1	2.2	1.4	0.52	0.37	0.23	
106-46-7	1,4-Dichlorobenzene	12	2.2	1.2	1.9	0.37	0.21	
135-98-8	sec-Butylbenzene	ND	11	1.3	ND	2.0	0.24	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	11	1.4	ND	2.0	0.26	
95-50-1	1,2-Dichlorobenzene	10	2.2	1.5	1.7	0.37	0.24	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.7	ND	1.2	0.18	
120-82-1	1,2,4-Trichlorobenzene	6.4	2.2	1.7	0.86	0.30	0.23	
91-20-3	Naphthalene	ND	4.5	1.6	ND	0.85	0.31	
87-68-3	Hexachlorobutadiene	300	2.2	2.0	28	0.21	0.19	
98-06-6	tert-Butylbenzene	ND	4.5	1.1	ND	0.81	0.20	
104-51-8	n-Butylbenzene	ND	4.5	1.1	ND	0.81	0.20	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: *EA* Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG28B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00702

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27/08 & 5/29/08
Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	16	1.6	0.42	3.2	0.32	J
74-87-3	Chloromethane	ND	3.2	1.6	ND	1.5	0.77	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	16	1.6	ND	2.3	0.23	
75-01-4	Vinyl Chloride	ND	3.2	1.6	ND	1.2	0.62	
74-83-9	Bromomethane	ND	3.2	1.6	ND	0.82	0.41	
75-00-3	Chloroethane	ND	3.2	1.6	ND	1.2	0.60	
64-17-5	Ethanol	5.6	160	1.6	3.0	84	0.84	J
67-64-1	Acetone	24	160	2.3	10	67	0.98	J, B
75-69-4	Trichlorofluoromethane	ND	3.2	1.6	ND	0.57	0.28	
107-13-1	Acrylonitrile	ND	16	2.2	ND	7.3	1.0	
75-35-4	1,1-Dichloroethene	28	3.2	1.6	7.0	0.80	0.40	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	16	2.4	ND	5.2	0.78	
75-09-2	Methylene Chloride	ND	16	1.6	ND	4.6	0.46	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	3.2	1.6	ND	1.0	0.51	
76-13-1	Trichlorotrifluoroethane	ND	3.2	1.8	ND	0.42	0.23	
75-15-0	Carbon Disulfide	ND	16	3.8	ND	5.1	1.2	
156-60-5	trans-1,2-Dichloroethene	ND	3.2	1.6	ND	0.80	0.40	
75-34-3	1,1-Dichloroethane	ND	3.2	1.6	ND	0.79	0.39	
1634-04-4	Methyl tert-Butyl Ether	ND	3.2	1.6	ND	0.88	0.44	
108-05-4	Vinyl Acetate	ND	160	5.1	ND	45	1.4	
78-93-3	2-Butanone (MEK)	4.4	16	1.6	1.5	5.4	0.54	J
156-59-2	cis-1,2-Dichloroethene	ND	3.2	1.6	ND	0.80	0.40	
108-20-3	Diisopropyl Ether	ND	16	1.9	ND	3.8	0.45	
67-66-3	Chloroform	7,800	3.2	1.9	1,600	0.65	0.38	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/19/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG28B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00702

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27/08 & 5/29/08
Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	16	1.6	ND	3.8	0.39	
107-06-2	1,2-Dichloroethane	ND	3.2	1.6	ND	0.79	0.39	
71-55-6	1,1,1-Trichloroethane	ND	3.2	1.6	ND	0.58	0.29	
71-43-2	Benzene	3.7	3.2	1.6	1.2	1.0	0.50	
56-23-5	Carbon Tetrachloride	24	3.2	1.6	3.8	0.51	0.25	
994-05-8	tert-Amyl Methyl Ether	ND	16	1.6	ND	3.8	0.38	
78-87-5	1,2-Dichloropropane	ND	3.2	1.6	ND	0.69	0.34	
75-27-4	Bromodichloromethane	ND	3.2	1.6	ND	0.47	0.24	
79-01-6	Trichloroethene	560	3.2	1.6	100	0.59	0.30	
123-91-1	1,4-Dioxane	ND	16	1.9	ND	4.4	0.54	
80-62-6	Methyl Methacrylate	ND	16	2.4	ND	3.9	0.58	
142-82-5	n-Heptane	ND	16	2.0	ND	3.9	0.50	
10061-01-5	cis-1,3-Dichloropropene	ND	16	1.7	ND	3.5	0.36	
108-10-1	4-Methyl-2-pentanone	ND	16	1.8	ND	3.9	0.43	
10061-02-6	trans-1,3-Dichloropropene	ND	16	2.0	ND	3.5	0.44	
79-00-5	1,1,2-Trichloroethane	ND	3.2	1.6	ND	0.58	0.29	
108-88-3	Toluene	2.1	16	1.6	0.55	4.2	0.42	J
591-78-6	2-Hexanone	ND	16	2.4	ND	3.9	0.59	
124-48-1	Dibromochloromethane	ND	3.2	2.2	ND	0.37	0.25	
106-93-4	1,2-Dibromoethane	ND	3.2	1.7	ND	0.41	0.22	
111-65-9	n-Octane	ND	16	1.6	ND	3.4	0.34	
127-18-4	Tetrachloroethene	42	3.2	1.6	6.2	0.47	0.23	
108-90-7	Chlorobenzene	ND	3.2	1.6	ND	0.69	0.35	

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Verified By: UA Date: 6/16/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG28B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00702

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08 & 5/29/08
 Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	16	2.0	ND	3.7	0.45	
179601-23-1	m,p-Xylenes	ND	16	4.1	ND	3.7	0.95	
75-25-2	Bromoform	ND	16	2.4	ND	1.5	0.23	
100-42-5	Styrene	ND	16	2.4	ND	3.7	0.57	
95-47-6	o-Xylene	ND	16	2.0	ND	3.7	0.46	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.2	2.0	ND	0.46	0.30	
98-82-8	Cumene	ND	16	1.8	ND	3.2	0.36	
103-65-1	n-Propylbenzene	ND	16	1.7	ND	3.2	0.34	
622-96-8	4-Ethyltoluene	ND	16	1.8	ND	3.2	0.37	
108-67-8	1,3,5-Trimethylbenzene	ND	16	1.9	ND	3.2	0.39	
98-83-9	alpha-Methylstyrene	ND	16	2.3	ND	3.3	0.48	
95-63-6	1,2,4-Trimethylbenzene	ND	16	2.2	ND	3.2	0.45	
100-44-7	Benzyl Chloride	ND	3.2	2.7	ND	0.61	0.53	
541-73-1	1,3-Dichlorobenzene	ND	3.2	2.0	ND	0.53	0.33	
106-46-7	1,4-Dichlorobenzene	11	3.2	1.8	1.8	0.53	0.30	
135-98-8	sec-Butylbenzene	ND	16	1.8	ND	2.9	0.34	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	16	2.1	ND	2.9	0.38	
95-50-1	1,2-Dichlorobenzene	ND	3.2	2.1	ND	0.53	0.35	
96-12-8	1,2-Dibromo-3-chloropropane	ND	16	2.4	ND	1.6	0.25	
120-82-1	1,2,4-Trichlorobenzene	ND	3.2	2.4	ND	0.43	0.33	
91-20-3	Naphthalene	2.4	6.4	2.4	0.46	1.2	0.45	J
87-68-3	Hexachlorobutadiene	ND	3.2	2.9	ND	0.30	0.27	
98-06-6	tert-Butylbenzene	ND	6.4	1.6	ND	1.2	0.29	
104-51-8	n-Butylbenzene	ND	6.4	1.6	ND	1.2	0.29	

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Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG62B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00624

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.020 Liter(s)
 0.0050 Liter(s)

Initial Pressure (psig): -2.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	39	3.9	ND	7.8	0.78	
74-87-3	Chloromethane	ND	7.7	3.9	ND	3.7	1.9	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	39	3.9	ND	5.5	0.55	
75-01-4	Vinyl Chloride	ND	7.7	3.9	ND	3.0	1.5	
74-83-9	Bromomethane	ND	7.7	3.9	ND	2.0	0.99	
75-00-3	Chloroethane	ND	7.7	3.9	ND	2.9	1.5	
64-17-5	Ethanol	9.2	390	3.9	4.9	200	2.0	J
67-64-1	Acetone	35	390	5.6	15	160	2.4	J, B
75-69-4	Trichlorofluoromethane	ND	7.7	3.9	ND	1.4	0.69	
107-13-1	Acrylonitrile	ND	39	5.4	ND	18	2.5	
75-35-4	1,1-Dichloroethene	ND	7.7	3.9	ND	1.9	0.97	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	39	5.7	ND	13	1.9	
75-09-2	Methylene Chloride	ND	39	3.9	ND	11	1.1	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	7.7	3.9	ND	2.5	1.2	
76-13-1	Trichlorotrifluoroethane	ND	7.7	4.3	ND	1.0	0.56	
75-15-0	Carbon Disulfide	ND	39	9.2	ND	12	3.0	
156-60-5	trans-1,2-Dichloroethene	ND	7.7	3.9	ND	1.9	0.97	
75-34-3	1,1-Dichloroethane	ND	7.7	3.9	ND	1.9	0.95	
1634-04-4	Methyl tert-Butyl Ether	ND	7.7	3.9	ND	2.1	1.1	
108-05-4	Vinyl Acetate	ND	390	12	ND	110	3.5	
78-93-3	2-Butanone (MEK)	6.5	39	3.9	2.2	13	1.3	J
156-59-2	cis-1,2-Dichloroethene	ND	7.7	3.9	ND	1.9	0.97	
108-20-3	Diisopropyl Ether	ND	39	4.5	ND	9.2	1.1	
67-66-3	Chloroform	13,000	7.7	4.5	2,700	1.6	0.93	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG62B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-012

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00624

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.020 Liter(s)
 0.0050 Liter(s)

Initial Pressure (psig): -2.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	39	3.9	ND	9.2	0.94	
107-06-2	1,2-Dichloroethane	ND	7.7	3.9	ND	1.9	0.95	
71-55-6	1,1,1-Trichloroethane	ND	7.7	3.9	ND	1.4	0.71	
71-43-2	Benzene	ND	7.7	3.9	ND	2.4	1.2	
56-23-5	Carbon Tetrachloride	1,200	7.7	3.9	200	1.2	0.61	
994-05-8	tert-Amyl Methyl Ether	ND	39	3.9	ND	9.2	0.92	
78-87-5	1,2-Dichloropropane	ND	7.7	3.9	ND	1.7	0.83	
75-27-4	Bromodichloromethane	ND	7.7	3.9	ND	1.1	0.57	
79-01-6	Trichloroethene	ND	7.7	3.9	ND	1.4	0.72	
123-91-1	1,4-Dioxane	ND	39	4.7	ND	11	1.3	
80-62-6	Methyl Methacrylate	ND	39	5.8	ND	9.4	1.4	
142-82-5	n-Heptane	ND	39	4.9	ND	9.4	1.2	
10061-01-5	cis-1,3-Dichloropropene	ND	39	4.0	ND	8.5	0.88	
108-10-1	4-Methyl-2-pentanone	ND	39	4.3	ND	9.4	1.1	
10061-02-6	trans-1,3-Dichloropropene	ND	39	4.9	ND	8.5	1.1	
79-00-5	1,1,2-Trichloroethane	ND	7.7	3.9	ND	1.4	0.71	
108-88-3	Toluene	ND	39	3.9	ND	10	1.0	
591-78-6	2-Hexanone	ND	39	5.9	ND	9.4	1.4	
124-48-1	Dibromochloromethane	ND	7.7	5.2	ND	0.90	0.61	
106-93-4	1,2-Dibromoethane	ND	7.7	4.2	ND	1.0	0.54	
111-65-9	n-Octane	ND	39	3.9	ND	8.2	0.82	
127-18-4	Tetrachloroethene	19	7.7	3.9	2.9	1.1	0.57	
108-90-7	Chlorobenzene	ND	7.7	3.9	ND	1.7	0.85	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG62B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00624

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.020 Liter(s)
 0.0050 Liter(s)

Initial Pressure (psig): -2.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	39	4.8	ND	8.9	1.1	
179601-23-1	m,p-Xylenes	ND	39	10	ND	8.9	2.3	
75-25-2	Bromoform	ND	39	5.9	ND	3.7	0.57	
100-42-5	Styrene	ND	39	5.9	ND	9.0	1.4	
95-47-6	o-Xylene	ND	39	4.9	ND	8.9	1.1	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.7	4.9	ND	1.1	0.72	
98-82-8	Cumene	ND	39	4.3	ND	7.8	0.88	
103-65-1	n-Propylbenzene	ND	39	4.0	ND	7.8	0.81	
622-96-8	4-Ethyltoluene	ND	39	4.4	ND	7.8	0.89	
108-67-8	1,3,5-Trimethylbenzene	ND	39	4.6	ND	7.8	0.94	
98-83-9	alpha-Methylstyrene	ND	39	5.6	ND	8.0	1.2	
95-63-6	1,2,4-Trimethylbenzene	ND	39	5.3	ND	7.8	1.1	
100-44-7	Benzyl Chloride	ND	7.7	6.6	ND	1.5	1.3	
541-73-1	1,3-Dichlorobenzene	ND	7.7	4.8	ND	1.3	0.79	
106-46-7	1,4-Dichlorobenzene	6.4	7.7	4.3	1.1	1.3	0.72	J
135-98-8	sec-Butylbenzene	ND	39	4.5	ND	7.0	0.81	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	39	5.0	ND	7.0	0.91	
95-50-1	1,2-Dichlorobenzene	ND	7.7	5.1	ND	1.3	0.85	
96-12-8	1,2-Dibromo-3-chloropropane	ND	39	5.9	ND	4.0	0.61	
120-82-1	1,2,4-Trichlorobenzene	ND	7.7	5.9	ND	1.0	0.79	
91-20-3	Naphthalene	ND	15	5.7	ND	2.9	1.1	
87-68-3	Hexachlorobutadiene	ND	7.7	6.9	ND	0.72	0.65	
98-06-6	tert-Butylbenzene	ND	15	3.9	ND	2.8	0.70	
104-51-8	n-Butylbenzene	ND	15	3.9	ND	2.8	0.70	

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Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG33B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00322

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.22

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.1	0.11	0.40	0.22	0.022	
74-87-3	Chloromethane	0.34	0.22	0.11	0.17	0.11	0.054	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.11	ND	0.16	0.016	
75-01-4	Vinyl Chloride	ND	0.22	0.11	ND	0.087	0.043	
74-83-9	Bromomethane	0.13	0.22	0.11	0.033	0.057	0.029	J
75-00-3	Chloroethane	0.38	0.22	0.11	0.15	0.084	0.042	
64-17-5	Ethanol	7.0	11	0.11	3.7	5.9	0.059	J
67-64-1	Acetone	28	11	0.16	12	4.7	0.068	B
75-69-4	Trichlorofluoromethane	1.1	0.22	0.11	0.20	0.040	0.020	
107-13-1	Acrylonitrile	ND	1.1	0.16	ND	0.51	0.072	
75-35-4	1,1-Dichloroethene	ND	0.22	0.11	ND	0.056	0.028	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.42	1.1	0.16	0.14	0.37	0.054	J
75-09-2	Methylene Chloride	0.29	1.1	0.11	0.083	0.32	0.032	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.11	ND	0.071	0.035	
76-13-1	Trichlorotrifluoroethane	0.46	0.22	0.12	0.059	0.029	0.016	
75-15-0	Carbon Disulfide	3.0	1.1	0.27	0.95	0.36	0.086	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.11	ND	0.056	0.028	
75-34-3	1,1-Dichloroethane	ND	0.22	0.11	ND	0.055	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.11	ND	0.062	0.031	
108-05-4	Vinyl Acetate	11	11	0.36	3.0	3.2	0.10	J
78-93-3	2-Butanone (MEK)	6.2	1.1	0.11	2.1	0.38	0.038	B
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.11	ND	0.056	0.028	
108-20-3	Diisopropyl Ether	ND	1.1	0.13	ND	0.27	0.031	
67-66-3	Chloroform	33	0.22	0.13	6.9	0.045	0.027	

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J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG33B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00322

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.22

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.1	0.11	ND	0.27	0.027	
107-06-2	1,2-Dichloroethane	ND	0.22	0.11	ND	0.055	0.027	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.11	ND	0.041	0.020	
71-43-2	Benzene	3.8	0.22	0.11	1.2	0.070	0.035	
56-23-5	Carbon Tetrachloride	1.5	0.22	0.11	0.25	0.035	0.018	
994-05-8	tert-Amyl Methyl Ether	ND	1.1	0.11	ND	0.27	0.027	
78-87-5	1,2-Dichloropropane	ND	0.22	0.11	ND	0.048	0.024	
75-27-4	Bromodichloromethane	ND	0.22	0.11	ND	0.033	0.017	
79-01-6	Trichloroethene	3.9	0.22	0.11	0.73	0.041	0.021	
123-91-1	1,4-Dioxane	0.32	1.1	0.14	0.090	0.31	0.038	J
80-62-6	Methyl Methacrylate	ND	1.1	0.17	ND	0.27	0.041	
142-82-5	n-Heptane	ND	1.1	0.14	ND	0.27	0.035	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.12	ND	0.24	0.025	
108-10-1	4-Methyl-2-pentanone	0.51	1.1	0.12	0.12	0.27	0.030	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.14	ND	0.24	0.031	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.11	ND	0.041	0.020	
108-88-3	Toluene	3.7	1.1	0.11	0.97	0.29	0.029	
591-78-6	2-Hexanone	0.61	1.1	0.17	0.15	0.27	0.041	J
124-48-1	Dibromochloromethane	ND	0.22	0.15	ND	0.026	0.018	
106-93-4	1,2-Dibromoethane	ND	0.22	0.12	ND	0.029	0.016	
111-65-9	n-Octane	0.44	1.1	0.11	0.094	0.24	0.024	J
127-18-4	Tetrachloroethene	5.7	0.22	0.11	0.85	0.033	0.016	
108-90-7	Chlorobenzene	0.17	0.22	0.11	0.037	0.048	0.025	J

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Verified By: CA

Date: 6/19/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG33B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00322

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.22

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.16	1.1	0.14	0.038	0.26	0.032	J
179601-23-1	m,p-Xylenes	0.68	1.1	0.29	0.16	0.26	0.066	J
75-25-2	Bromoform	ND	1.1	0.17	ND	0.11	0.016	
100-42-5	Styrene	ND	1.1	0.17	ND	0.26	0.040	
95-47-6	o-Xylene	0.25	1.1	0.14	0.057	0.26	0.032	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.14	ND	0.032	0.021	
98-82-8	Cumene	ND	1.1	0.12	ND	0.23	0.025	
103-65-1	n-Propylbenzene	ND	1.1	0.12	ND	0.23	0.023	
622-96-8	4-Ethyltoluene	ND	1.1	0.13	ND	0.23	0.026	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.13	ND	0.23	0.027	
98-83-9	alpha-Methylstyrene	0.19	1.1	0.16	0.039	0.23	0.034	J
95-63-6	1,2,4-Trimethylbenzene	0.56	1.1	0.15	0.11	0.23	0.031	J
100-44-7	Benzyl Chloride	0.29	0.22	0.19	0.057	0.043	0.037	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.14	ND	0.037	0.023	
106-46-7	1,4-Dichlorobenzene	1.8	0.22	0.12	0.29	0.037	0.021	
135-98-8	sec-Butylbenzene	ND	1.1	0.13	ND	0.20	0.023	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.34	1.1	0.14	0.062	0.20	0.026	J
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.15	ND	0.037	0.024	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.17	ND	0.11	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	0.22	0.17	ND	0.030	0.023	
91-20-3	Naphthalene	1.3	0.44	0.16	0.24	0.085	0.031	
87-68-3	Hexachlorobutadiene	0.72	0.22	0.20	0.067	0.021	0.019	
98-06-6	tert-Butylbenzene	ND	0.44	0.11	ND	0.081	0.020	
104-51-8	n-Butylbenzene	0.34	0.44	0.11	0.062	0.081	0.020	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG82B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00616

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	5.6	0.56	0.43	1.1	0.11	J
74-87-3	Chloromethane	1.2	1.1	0.56	0.59	0.54	0.27	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	5.6	0.56	ND	0.80	0.080	
75-01-4	Vinyl Chloride	ND	1.1	0.56	ND	0.44	0.22	
74-83-9	Bromomethane	ND	1.1	0.56	ND	0.29	0.14	
75-00-3	Chloroethane	ND	1.1	0.56	ND	0.42	0.21	
64-17-5	Ethanol	4.0	56	0.56	2.1	30	0.30	J, B
67-64-1	Acetone	16	56	0.81	6.8	23	0.34	J, B
75-69-4	Trichlorofluoromethane	1.2	1.1	0.56	0.22	0.20	0.099	
107-13-1	Acrylonitrile	ND	5.6	0.78	ND	2.6	0.36	
75-35-4	1,1-Dichloroethene	1.2	1.1	0.56	0.31	0.28	0.14	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	3.1	5.6	0.82	1.0	1.8	0.27	J
75-09-2	Methylene Chloride	1.2	5.6	0.56	0.35	1.6	0.16	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.1	0.56	ND	0.36	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.1	0.62	ND	0.15	0.081	
75-15-0	Carbon Disulfide	60	5.6	1.3	19	1.8	0.43	B
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.56	ND	0.28	0.14	
75-34-3	1,1-Dichloroethane	ND	1.1	0.56	ND	0.28	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.1	0.56	ND	0.31	0.15	
108-05-4	Vinyl Acetate	4.4	56	1.8	1.3	16	0.51	J, B
78-93-3	2-Butanone (MEK)	7.4	5.6	0.56	2.5	1.9	0.19	B
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.56	ND	0.28	0.14	
108-20-3	Diisopropyl Ether	ND	5.6	0.66	ND	1.3	0.16	
67-66-3	Chloroform	2,600	1.1	0.66	520	0.23	0.13	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG82B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00616

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	5.6	0.57	ND	1.3	0.14	
107-06-2	1,2-Dichloroethane	ND	1.1	0.56	ND	0.28	0.14	
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.56	ND	0.20	0.10	
71-43-2	Benzene	4.3	1.1	0.56	1.3	0.35	0.17	
56-23-5	Carbon Tetrachloride	11	1.1	0.56	1.7	0.18	0.089	
994-05-8	tert-Amyl Methyl Ether	ND	5.6	0.56	ND	1.3	0.13	
78-87-5	1,2-Dichloropropane	ND	1.1	0.56	ND	0.24	0.12	
75-27-4	Bromodichloromethane	1.1	1.1	0.56	0.17	0.17	0.083	
79-01-6	Trichloroethene	64	1.1	0.56	12	0.21	0.10	
123-91-1	1,4-Dioxane	ND	5.6	0.68	ND	1.5	0.19	
80-62-6	Methyl Methacrylate	ND	5.6	0.84	ND	1.4	0.20	
142-82-5	n-Heptane	ND	5.6	0.71	ND	1.4	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	0.58	ND	1.2	0.13	
108-10-1	4-Methyl-2-pentanone	0.63	5.6	0.62	0.15	1.4	0.15	J
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	0.70	ND	1.2	0.15	
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.56	ND	0.20	0.10	
108-88-3	Toluene	16	5.6	0.56	4.3	1.5	0.15	
591-78-6	2-Hexanone	ND	5.6	0.85	ND	1.4	0.21	
124-48-1	Dibromochloromethane	ND	1.1	0.76	ND	0.13	0.089	
106-93-4	1,2-Dibromoethane	ND	1.1	0.60	ND	0.14	0.078	
111-65-9	n-Octane	ND	5.6	0.56	ND	1.2	0.12	
127-18-4	Tetrachloroethene	19	1.1	0.56	2.9	0.16	0.082	
108-90-7	Chlorobenzene	0.97	1.1	0.57	0.21	0.24	0.12	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: *CA* Date: 5/14/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG82B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00616

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	2.0	5.6	0.69	0.45	1.3	0.16	J
179601-23-1	m,p-Xylenes	8.4	5.6	1.4	1.9	1.3	0.33	
75-25-2	Bromoform	1.2	5.6	0.85	0.12	0.54	0.082	J
100-42-5	Styrene	ND	5.6	0.85	ND	1.3	0.20	
95-47-6	o-Xylene	3.1	5.6	0.70	0.72	1.3	0.16	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.71	ND	0.16	0.10	
98-82-8	Cumene	ND	5.6	0.62	ND	1.1	0.13	
103-65-1	n-Propylbenzene	ND	5.6	0.58	ND	1.1	0.12	
622-96-8	4-Ethyltoluene	0.79	5.6	0.63	0.16	1.1	0.13	J
108-67-8	1,3,5-Trimethylbenzene	0.76	5.6	0.67	0.15	1.1	0.14	J
98-83-9	alpha-Methylstyrene	ND	5.6	0.81	ND	1.2	0.17	
95-63-6	1,2,4-Trimethylbenzene	2.6	5.6	0.77	0.52	1.1	0.16	J
100-44-7	Benzyl Chloride	ND	1.1	0.96	ND	0.22	0.19	
541-73-1	1,3-Dichlorobenzene	2.1	1.1	0.69	0.34	0.19	0.11	
106-46-7	1,4-Dichlorobenzene	7.2	1.1	0.62	1.2	0.19	0.10	
135-98-8	sec-Butylbenzene	ND	5.6	0.65	ND	1.0	0.12	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	5.6	0.72	ND	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	5.1	1.1	0.73	0.86	0.19	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	0.85	ND	0.58	0.088	
120-82-1	1,2,4-Trichlorobenzene	4.7	1.1	0.85	0.63	0.15	0.11	
91-20-3	Naphthalene	1.5	2.2	0.82	0.29	0.42	0.16	J
87-68-3	Hexachlorobutadiene	5.4	1.1	1.0	0.51	0.10	0.094	
98-06-6	tert-Butylbenzene	ND	2.2	0.56	ND	0.41	0.10	
104-51-8	n-Butylbenzene	ND	2.2	0.56	ND	0.41	0.10	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG61B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00762

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/26 - 5/27/08
Volume(s) Analyzed: 0.0050 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	160	16	ND	33	3.3	
74-87-3	Chloromethane	ND	33	16	ND	16	7.9	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	160	16	ND	23	2.3	
75-01-4	Vinyl Chloride	ND	33	16	ND	13	6.4	
74-83-9	Bromomethane	ND	33	16	ND	8.4	4.2	
75-00-3	Chloroethane	ND	33	16	ND	12	6.2	
64-17-5	Ethanol	20	1,600	16	11	870	8.7	J
67-64-1	Acetone	59	1,600	24	25	690	10	J, B
75-69-4	Trichlorofluoromethane	1,700	33	16	300	5.8	2.9	
107-13-1	Acrylonitrile	ND	160	23	ND	75	11	
75-35-4	1,1-Dichloroethene	ND	33	16	ND	8.2	4.1	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	160	24	ND	54	8.0	
75-09-2	Methylene Chloride	22	160	16	6.5	47	4.7	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	33	16	ND	10	5.2	
76-13-1	Trichlorotrifluoroethane	ND	33	18	ND	4.3	2.4	
75-15-0	Carbon Disulfide	ND	160	39	ND	52	13	
156-60-5	trans-1,2-Dichloroethene	ND	33	16	ND	8.2	4.1	
75-34-3	1,1-Dichloroethane	ND	33	16	ND	8.1	4.0	
1634-04-4	Methyl tert-Butyl Ether	ND	33	16	ND	9.0	4.5	
108-05-4	Vinyl Acetate	ND	1,600	52	ND	460	15	
78-93-3	2-Butanone (MEK)	ND	160	16	ND	55	5.5	
156-59-2	cis-1,2-Dichloroethene	ND	33	16	ND	8.2	4.1	
108-20-3	Diisopropyl Ether	ND	160	19	ND	39	4.6	
67-66-3	Chloroform	93,000	33	19	19,000	6.7	3.9	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: 64 Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG61B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00762

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/26 - 5/27/08
Volume(s) Analyzed: 0.0050 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	160	17	ND	39	4.0	
107-06-2	1,2-Dichloroethane	ND	33	16	ND	8.1	4.0	
71-55-6	1,1,1-Trichloroethane	ND	33	16	ND	6.0	3.0	
71-43-2	Benzene	ND	33	16	ND	10	5.1	
56-23-5	Carbon Tetrachloride	17,000	33	16	2,700	5.2	2.6	
994-05-8	tert-Amyl Methyl Ether	ND	160	16	ND	39	3.9	
78-87-5	1,2-Dichloropropane	ND	33	16	ND	7.1	3.5	
75-27-4	Bromodichloromethane	ND	33	16	ND	4.9	2.4	
79-01-6	Trichloroethene	21	33	16	3.8	6.1	3.0	J
123-91-1	1,4-Dioxane	ND	160	20	ND	45	5.5	
80-62-6	Methyl Methacrylate	ND	160	24	ND	40	6.0	
142-82-5	n-Heptane	ND	160	21	ND	40	5.1	
10061-01-5	cis-1,3-Dichloropropene	ND	160	17	ND	36	3.7	
108-10-1	4-Methyl-2-pentanone	ND	160	18	ND	40	4.5	
10061-02-6	trans-1,3-Dichloropropene	ND	160	21	ND	36	4.5	
79-00-5	1,1,2-Trichloroethane	ND	33	16	ND	6.0	3.0	
108-88-3	Toluene	ND	160	16	ND	43	4.3	
591-78-6	2-Hexanone	ND	160	25	ND	40	6.1	
124-48-1	Dibromochloromethane	ND	33	22	ND	3.8	2.6	
106-93-4	1,2-Dibromoethane	ND	33	18	ND	4.2	2.3	
111-65-9	n-Octane	ND	160	16	ND	35	3.5	
127-18-4	Tetrachloroethene	280	33	16	41	4.8	2.4	
108-90-7	Chlorobenzene	ND	33	17	ND	7.1	3.6	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG61B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00762

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/26 - 5/27/08
Volume(s) Analyzed: 0.0050 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	160	20	ND	38	4.7	
179601-23-1	m,p-Xylenes	ND	160	42	ND	38	9.8	
75-25-2	Bromoform	ND	160	25	ND	16	2.4	
100-42-5	Styrene	ND	160	25	ND	38	5.8	
95-47-6	o-Xylene	ND	160	21	ND	38	4.7	
79-34-5	1,1,2,2-Tetrachloroethane	ND	33	21	ND	4.7	3.0	
98-82-8	Cumene	ND	160	18	ND	33	3.7	
103-65-1	n-Propylbenzene	ND	160	17	ND	33	3.4	
622-96-8	4-Ethyltoluene	ND	160	19	ND	33	3.8	
108-67-8	1,3,5-Trimethylbenzene	ND	160	20	ND	33	4.0	
98-83-9	alpha-Methylstyrene	ND	160	24	ND	34	4.9	
95-63-6	1,2,4-Trimethylbenzene	ND	160	22	ND	33	4.6	
100-44-7	Benzyl Chloride	ND	33	28	ND	6.3	5.4	
541-73-1	1,3-Dichlorobenzene	ND	33	20	ND	5.4	3.4	
106-46-7	1,4-Dichlorobenzene	ND	33	18	ND	5.4	3.0	
135-98-8	sec-Butylbenzene	ND	160	19	ND	30	3.4	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	160	21	ND	30	3.9	
95-50-1	1,2-Dichlorobenzene	ND	33	22	ND	5.4	3.6	
96-12-8	1,2-Dibromo-3-chloropropane	ND	160	25	ND	17	2.6	
120-82-1	1,2,4-Trichlorobenzene	ND	33	25	ND	4.4	3.3	
91-20-3	Naphthalene	ND	65	24	ND	12	4.6	
87-68-3	Hexachlorobutadiene	ND	33	29	ND	3.1	2.8	
98-06-6	tert-Butylbenzene	ND	65	16	ND	12	3.0	
104-51-8	n-Butylbenzene	ND	65	16	ND	12	3.0	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CA Date: 6/1/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG83B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-016

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00869

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.010 Liter(s)
 0.0020 Liter(s)

Initial Pressure (psig): -4.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	92	9.2	ND	19	1.9	
74-87-3	Chloromethane	ND	18	9.2	ND	8.9	4.5	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	92	9.2	ND	13	1.3	
75-01-4	Vinyl Chloride	ND	18	9.2	ND	7.2	3.6	
74-83-9	Bromomethane	ND	18	9.2	ND	4.7	2.4	
75-00-3	Chloroethane	ND	18	9.2	ND	7.0	3.5	
64-17-5	Ethanol	32	920	9.2	17	490	4.9	J, B
67-64-1	Acetone	52	920	13	22	390	5.7	J, B
75-69-4	Trichlorofluoromethane	1,400	18	9.2	240	3.3	1.6	
107-13-1	Acrylonitrile	ND	92	13	ND	42	5.9	
75-35-4	1,1-Dichloroethene	ND	18	9.2	ND	4.6	2.3	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	92	14	ND	30	4.5	
75-09-2	Methylene Chloride	9.6	92	9.2	2.8	26	2.6	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	18	9.2	ND	5.9	2.9	
76-13-1	Trichlorotrifluoroethane	ND	18	10	ND	2.4	1.3	
75-15-0	Carbon Disulfide	23	92	22	7.3	30	7.1	J, B
156-60-5	trans-1,2-Dichloroethene	ND	18	9.2	ND	4.6	2.3	
75-34-3	1,1-Dichloroethane	ND	18	9.2	ND	4.5	2.3	
1634-04-4	Methyl tert-Butyl Ether	ND	18	9.2	ND	5.1	2.6	
108-05-4	Vinyl Acetate	ND	920	29	ND	260	8.4	
78-93-3	2-Butanone (MEK)	ND	92	9.2	ND	31	3.1	
156-59-2	cis-1,2-Dichloroethene	ND	18	9.2	ND	4.6	2.3	
108-20-3	Diisopropyl Ether	ND	92	11	ND	22	2.6	
67-66-3	Chloroform	52,000	18	11	11,000	3.8	2.2	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG83B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-016

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00869

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.010 Liter(s)
 0.0020 Liter(s)

Initial Pressure (psig): -4.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.84

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data Qualifier
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	
637-92-3	Ethyl tert-Butyl Ether	ND	92	9.4	ND	22	2.2	
107-06-2	1,2-Dichloroethane	ND	18	9.2	ND	4.5	2.3	
71-55-6	1,1,1-Trichloroethane	ND	18	9.2	ND	3.4	1.7	
71-43-2	Benzene	79	18	9.2	25	5.8	2.9	
56-23-5	Carbon Tetrachloride	9,800	18	9.2	1,600	2.9	1.5	
994-05-8	tert-Amyl Methyl Ether	ND	92	9.2	ND	22	2.2	
78-87-5	1,2-Dichloropropane	ND	18	9.2	ND	4.0	2.0	
75-27-4	Bromodichloromethane	ND	18	9.2	ND	2.7	1.4	
79-01-6	Trichloroethene	12	18	9.2	2.3	3.4	1.7	J
123-91-1	1,4-Dioxane	ND	92	11	ND	26	3.1	
80-62-6	Methyl Methacrylate	ND	92	14	ND	22	3.4	
142-82-5	n-Heptane	ND	92	12	ND	22	2.9	
10061-01-5	cis-1,3-Dichloropropene	ND	92	9.6	ND	20	2.1	
108-10-1	4-Methyl-2-pentanone	ND	92	10	ND	22	2.5	
10061-02-6	trans-1,3-Dichloropropene	ND	92	12	ND	20	2.6	
79-00-5	1,1,2-Trichloroethane	ND	18	9.2	ND	3.4	1.7	
108-88-3	Toluene	ND	92	9.2	ND	24	2.4	
591-78-6	2-Hexanone	ND	92	14	ND	22	3.4	
124-48-1	Dibromochloromethane	ND	18	13	ND	2.2	1.5	
106-93-4	1,2-Dibromoethane	ND	18	9.9	ND	2.4	1.3	
111-65-9	n-Octane	ND	92	9.2	ND	20	2.0	
127-18-4	Tetrachloroethene	120	18	9.2	18	2.7	1.4	
108-90-7	Chlorobenzene	330	18	9.4	71	4.0	2.0	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG83B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-016

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00869

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.010 Liter(s)
 0.0020 Liter(s)

Initial Pressure (psig): -4.7 **Final Pressure (psig):** 3.7

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	92	11	ND	21	2.6	
179601-23-1	m,p-Xylenes	ND	92	24	ND	21	5.5	
75-25-2	Bromoform	ND	92	14	ND	8.9	1.4	
100-42-5	Styrene	ND	92	14	ND	22	3.3	
95-47-6	o-Xylene	ND	92	12	ND	21	2.7	
79-34-5	1,1,2,2-Tetrachloroethane	ND	18	12	ND	2.7	1.7	
98-82-8	Cumene	ND	92	10	ND	19	2.1	
103-65-1	n-Propylbenzene	ND	92	9.6	ND	19	1.9	
622-96-8	4-Ethyltoluene	ND	92	10	ND	19	2.1	
108-67-8	1,3,5-Trimethylbenzene	ND	92	11	ND	19	2.2	
98-83-9	alpha-Methylstyrene	ND	92	13	ND	19	2.8	
95-63-6	1,2,4-Trimethylbenzene	ND	92	13	ND	19	2.6	
100-44-7	Benzyl Chloride	ND	18	16	ND	3.6	3.1	
541-73-1	1,3-Dichlorobenzene	ND	18	11	ND	3.1	1.9	
106-46-7	1,4-Dichlorobenzene	ND	18	10	ND	3.1	1.7	
135-98-8	sec-Butylbenzene	ND	92	11	ND	17	1.9	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	92	12	ND	17	2.2	
95-50-1	1,2-Dichlorobenzene	ND	18	12	ND	3.1	2.0	
96-12-8	1,2-Dibromo-3-chloropropane	ND	92	14	ND	9.5	1.4	
120-82-1	1,2,4-Trichlorobenzene	ND	18	14	ND	2.5	1.9	
91-20-3	Naphthalene	ND	37	14	ND	7.0	2.6	
87-68-3	Hexachlorobutadiene	ND	18	17	ND	1.7	1.6	
98-06-6	tert-Butylbenzene	ND	37	9.2	ND	6.7	1.7	
104-51-8	n-Butylbenzene	ND	37	9.2	ND	6.7	1.7	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG83B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-017

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00955

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 0.010 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -4.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.81

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	91	9.1	ND	18	1.8	
74-87-3	Chloromethane	ND	18	9.1	ND	8.8	4.4	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	91	9.1	ND	13	1.3	
75-01-4	Vinyl Chloride	ND	18	9.1	ND	7.1	3.5	
74-83-9	Bromomethane	ND	18	9.1	ND	4.7	2.3	
75-00-3	Chloroethane	ND	18	9.1	ND	6.9	3.4	
64-17-5	Ethanol	32	910	9.1	17	480	4.8	J
67-64-1	Acetone	49	910	13	21	380	5.6	J, B
75-69-4	Trichlorofluoromethane	1,300	18	9.1	230	3.2	1.6	
107-13-1	Acrylonitrile	ND	91	13	ND	42	5.8	
75-35-4	1,1-Dichloroethene	ND	18	9.1	ND	4.6	2.3	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	91	13	ND	30	4.4	
75-09-2	Methylene Chloride	10	91	9.1	2.9	26	2.6	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	18	9.1	ND	5.8	2.9	
76-13-1	Trichlorotrifluoroethane	ND	18	10	ND	2.4	1.3	
75-15-0	Carbon Disulfide	37	91	22	12	29	7.0	J
156-60-5	trans-1,2-Dichloroethene	ND	18	9.1	ND	4.6	2.3	
75-34-3	1,1-Dichloroethane	9.4	18	9.1	2.3	4.5	2.2	J
1634-04-4	Methyl tert-Butyl Ether	ND	18	9.1	ND	5.0	2.5	
108-05-4	Vinyl Acetate	ND	910	29	ND	260	8.2	
78-93-3	2-Butanone (MEK)	16	91	9.1	5.4	31	3.1	J
156-59-2	cis-1,2-Dichloroethene	ND	18	9.1	ND	4.6	2.3	
108-20-3	Diisopropyl Ether	ND	91	11	ND	22	2.6	
67-66-3	Chloroform	46,000	18	11	9,400	3.7	2.2	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Ca Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG83B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-017

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00955

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 0.010 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -4.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.81

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	91	9.2	ND	22	2.2	
107-06-2	1,2-Dichloroethane	ND	18	9.1	ND	4.5	2.2	
71-55-6	1,1,1-Trichloroethane	ND	18	9.1	ND	3.3	1.7	
71-43-2	Benzene	80	18	9.1	25	5.7	2.8	
56-23-5	Carbon Tetrachloride	9,700	18	9.1	1,500	2.9	1.4	
994-05-8	tert-Amyl Methyl Ether	ND	91	9.1	ND	22	2.2	
78-87-5	1,2-Dichloropropane	ND	18	9.1	ND	3.9	2.0	
75-27-4	Bromodichloromethane	ND	18	9.1	ND	2.7	1.4	
79-01-6	Trichloroethene	13	18	9.1	2.5	3.4	1.7	J
123-91-1	1,4-Dioxane	ND	91	11	ND	25	3.1	
80-62-6	Methyl Methacrylate	ND	91	14	ND	22	3.3	
142-82-5	n-Heptane	ND	91	12	ND	22	2.8	
10061-01-5	cis-1,3-Dichloropropene	ND	91	9.4	ND	20	2.1	
108-10-1	4-Methyl-2-pentanone	ND	91	10	ND	22	2.5	
10061-02-6	trans-1,3-Dichloropropene	ND	91	11	ND	20	2.5	
79-00-5	1,1,2-Trichloroethane	ND	18	9.1	ND	3.3	1.7	
108-88-3	Toluene	ND	91	9.1	ND	24	2.4	
591-78-6	2-Hexanone	ND	91	14	ND	22	3.4	
124-48-1	Dibromochloromethane	ND	18	12	ND	2.1	1.4	
106-93-4	1,2-Dibromoethane	ND	18	9.8	ND	2.4	1.3	
111-65-9	n-Octane	ND	91	9.1	ND	19	1.9	
127-18-4	Tetrachloroethene	130	18	9.1	19	2.7	1.3	
108-90-7	Chlorobenzene	340	18	9.2	73	3.9	2.0	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
 Client Sample ID: SG83B-05
 Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-017

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00955

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 0.010 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -4.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.81

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	91	11	ND	21	2.6	
179601-23-1	m,p-Xylenes	ND	91	24	ND	21	5.4	
75-25-2	Bromoform	ND	91	14	ND	8.8	1.3	
100-42-5	Styrene	ND	91	14	ND	21	3.2	
95-47-6	o-Xylene	ND	91	11	ND	21	2.6	
79-34-5	1,1,2,2-Tetrachloroethane	ND	18	12	ND	2.6	1.7	
98-82-8	Cumene	ND	91	10	ND	18	2.1	
103-65-1	n-Propylbenzene	ND	91	9.4	ND	18	1.9	
622-96-8	4-Ethyltoluene	ND	91	10	ND	18	2.1	
108-67-8	1,3,5-Trimethylbenzene	ND	91	11	ND	18	2.2	
98-83-9	alpha-Methylstyrene	ND	91	13	ND	19	2.7	
95-63-6	1,2,4-Trimethylbenzene	ND	91	12	ND	18	2.5	
100-44-7	Benzyl Chloride	ND	18	16	ND	3.5	3.0	
541-73-1	1,3-Dichlorobenzene	ND	18	11	ND	3.0	1.9	
106-46-7	1,4-Dichlorobenzene	12	18	10	1.9	3.0	1.7	J
135-98-8	sec-Butylbenzene	ND	91	10	ND	16	1.9	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	91	12	ND	16	2.1	
95-50-1	1,2-Dichlorobenzene	ND	18	12	ND	3.0	2.0	
96-12-8	1,2-Dibromo-3-chloropropane	ND	91	14	ND	9.4	1.4	
120-82-1	1,2,4-Trichlorobenzene	ND	18	14	ND	2.4	1.9	
91-20-3	Naphthalene	20	36	13	3.8	6.9	2.6	J
87-68-3	Hexachlorobutadiene	ND	18	16	ND	1.7	1.5	
98-06-6	tert-Butylbenzene	ND	36	9.1	ND	6.6	1.6	
104-51-8	n-Butylbenzene	ND	36	9.1	ND	6.6	1.6	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG27B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-018

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00931

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.50 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.7	0.17	0.41	0.34	0.034	
74-87-3	Chloromethane	ND	0.33	0.17	ND	0.16	0.080	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.17	ND	0.24	0.024	
75-01-4	Vinyl Chloride	ND	0.33	0.17	ND	0.13	0.065	
74-83-9	Bromomethane	ND	0.33	0.17	ND	0.086	0.043	
75-00-3	Chloroethane	ND	0.33	0.17	ND	0.13	0.063	
64-17-5	Ethanol	6.3	17	0.17	3.4	8.8	0.088	J, B
67-64-1	Acetone	14	17	0.24	6.1	7.0	0.10	J, B
75-69-4	Trichlorofluoromethane	1.1	0.33	0.17	0.20	0.059	0.030	
107-13-1	Acrylonitrile	ND	1.7	0.23	ND	0.77	0.11	
75-35-4	1,1-Dichloroethene	1.7	0.33	0.17	0.42	0.084	0.042	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.88	1.7	0.25	0.29	0.55	0.081	J
75-09-2	Methylene Chloride	0.21	1.7	0.17	0.059	0.48	0.048	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.33	0.17	ND	0.11	0.053	
76-13-1	Trichlorotrifluoroethane	0.46	0.33	0.19	0.060	0.043	0.024	
75-15-0	Carbon Disulfide	0.98	1.7	0.40	0.31	0.53	0.13	J, B
156-60-5	trans-1,2-Dichloroethene	ND	0.33	0.17	ND	0.084	0.042	
75-34-3	1,1-Dichloroethane	0.23	0.33	0.17	0.057	0.082	0.041	J
1634-04-4	Methyl tert-Butyl Ether	ND	0.33	0.17	ND	0.092	0.046	
108-05-4	Vinyl Acetate	6.0	17	0.53	1.7	4.7	0.15	J, B
78-93-3	2-Butanone (MEK)	5.0	1.7	0.17	1.7	0.56	0.056	B
156-59-2	cis-1,2-Dichloroethene	ND	0.33	0.17	ND	0.084	0.042	
108-20-3	Diisopropyl Ether	ND	1.7	0.20	ND	0.40	0.047	
67-66-3	Chloroform	940	0.33	0.20	190	0.068	0.040	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG27B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-018

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00931

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.50 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.7	0.17	ND	0.40	0.041	
107-06-2	1,2-Dichloroethane	ND	0.33	0.17	ND	0.082	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.33	0.17	ND	0.061	0.030	
71-43-2	Benzene	2.2	0.33	0.17	0.69	0.10	0.052	
56-23-5	Carbon Tetrachloride	9.7	0.33	0.17	1.5	0.053	0.026	
994-05-8	tert-Amyl Methyl Ether	ND	1.7	0.17	ND	0.40	0.040	
78-87-5	1,2-Dichloropropane	0.22	0.33	0.17	0.047	0.072	0.036	J
75-27-4	Bromodichloromethane	0.65	0.33	0.17	0.097	0.050	0.025	
79-01-6	Trichloroethene	0.73	0.33	0.17	0.14	0.062	0.031	
123-91-1	1,4-Dioxane	ND	1.7	0.20	ND	0.46	0.056	
80-62-6	Methyl Methacrylate	ND	1.7	0.25	ND	0.41	0.061	
142-82-5	n-Heptane	ND	1.7	0.21	ND	0.41	0.052	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.17	ND	0.37	0.038	
108-10-1	4-Methyl-2-pentanone	0.20	1.7	0.19	0.049	0.41	0.045	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.21	ND	0.37	0.046	
79-00-5	1,1,2-Trichloroethane	ND	0.33	0.17	ND	0.061	0.030	
108-88-3	Toluene	2.7	1.7	0.17	0.73	0.44	0.044	
591-78-6	2-Hexanone	0.54	1.7	0.25	0.13	0.41	0.062	J
124-48-1	Dibromochloromethane	ND	0.33	0.23	ND	0.039	0.027	
106-93-4	1,2-Dibromoethane	ND	0.33	0.18	ND	0.043	0.023	
111-65-9	n-Octane	ND	1.7	0.17	ND	0.36	0.036	
127-18-4	Tetrachloroethene	6.4	0.33	0.17	0.95	0.049	0.024	
108-90-7	Chlorobenzene	ND	0.33	0.17	ND	0.072	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG27B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
CAS Sample ID: P0801483-018

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00931

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.50 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.7 **Final Pressure (psig):** 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	1.7	0.21	ND	0.38	0.047	
179601-23-1	m,p-Xylenes	0.49	1.7	0.43	0.11	0.38	0.099	J
75-25-2	Bromoform	ND	1.7	0.25	ND	0.16	0.024	
100-42-5	Styrene	ND	1.7	0.25	ND	0.39	0.059	
95-47-6	o-Xylene	0.26	1.7	0.21	0.059	0.38	0.048	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.33	0.21	ND	0.048	0.031	
98-82-8	Cumene	ND	1.7	0.19	ND	0.34	0.038	
103-65-1	n-Propylbenzene	ND	1.7	0.17	ND	0.34	0.035	
622-96-8	4-Ethyltoluene	ND	1.7	0.19	ND	0.34	0.039	
108-67-8	1,3,5-Trimethylbenzene	ND	1.7	0.20	ND	0.34	0.041	
98-83-9	alpha-Methylstyrene	ND	1.7	0.24	ND	0.34	0.050	
95-63-6	1,2,4-Trimethylbenzene	0.43	1.7	0.23	0.088	0.34	0.047	J
100-44-7	Benzyl Chloride	ND	0.33	0.29	ND	0.064	0.055	
541-73-1	1,3-Dichlorobenzene	ND	0.33	0.21	ND	0.055	0.034	
106-46-7	1,4-Dichlorobenzene	12	0.33	0.19	2.1	0.055	0.031	
135-98-8	sec-Butylbenzene	ND	1.7	0.19	ND	0.30	0.035	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	1.7	0.22	ND	0.30	0.039	
95-50-1	1,2-Dichlorobenzene	ND	0.33	0.22	ND	0.055	0.036	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.25	ND	0.17	0.026	
120-82-1	1,2,4-Trichlorobenzene	ND	0.33	0.25	ND	0.045	0.034	
91-20-3	Naphthalene	2.3	0.66	0.25	0.44	0.13	0.047	
87-68-3	Hexachlorobutadiene	2.7	0.33	0.30	0.25	0.031	0.028	
98-06-6	tert-Butylbenzene	ND	0.66	0.17	ND	0.12	0.030	
104-51-8	n-Butylbenzene	0.18	0.66	0.17	0.033	0.12	0.030	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: *CA*

Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG32B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-019

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00335

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 0.0025 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	330	33	ND	66	6.6	
74-87-3	Chloromethane	ND	65	33	ND	32	16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	330	33	ND	47	4.7	
75-01-4	Vinyl Chloride	ND	65	33	ND	26	13	
74-83-9	Bromomethane	ND	65	33	ND	17	8.4	
75-00-3	Chloroethane	ND	65	33	ND	25	12	
64-17-5	Ethanol	ND	3,300	33	ND	1,700	17	
67-64-1	Acetone	160	3,300	48	66	1,400	20	J, B
75-69-4	Trichlorofluoromethane	610	65	33	110	12	5.8	
107-13-1	Acrylonitrile	ND	330	46	ND	150	21	
75-35-4	1,1-Dichloroethene	ND	65	33	ND	16	8.2	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	330	48	ND	110	16	
75-09-2	Methylene Chloride	ND	330	33	ND	94	9.4	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	65	33	ND	21	10	
76-13-1	Trichlorotrifluoroethane	ND	65	37	ND	8.5	4.8	
75-15-0	Carbon Disulfide	ND	330	78	ND	100	25	
156-60-5	trans-1,2-Dichloroethene	ND	65	33	ND	16	8.2	
75-34-3	1,1-Dichloroethane	ND	65	33	ND	16	8.1	
1634-04-4	Methyl tert-Butyl Ether	ND	65	33	ND	18	9.0	
108-05-4	Vinyl Acetate	ND	3,300	100	ND	930	30	
78-93-3	2-Butanone (MEK)	ND	330	33	ND	110	11	
156-59-2	cis-1,2-Dichloroethene	ND	65	33	ND	16	8.2	
108-20-3	Diisopropyl Ether	ND	330	38	ND	78	9.2	
67-66-3	Chloroform	160,000	65	38	32,000	13	7.9	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 5/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG32B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-019

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00335

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 0.0025 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	330	33	ND	78	8.0	
107-06-2	1,2-Dichloroethane	ND	65	33	ND	16	8.1	
71-55-6	1,1,1-Trichloroethane	ND	65	33	ND	12	6.0	
71-43-2	Benzene	ND	65	33	ND	20	10	
56-23-5	Carbon Tetrachloride	190	65	33	30	10	5.2	
994-05-8	tert-Amyl Methyl Ether	ND	330	33	ND	78	7.8	
78-87-5	1,2-Dichloropropane	ND	65	33	ND	14	7.1	
75-27-4	Bromodichloromethane	ND	65	33	ND	9.7	4.9	
79-01-6	Trichloroethene	ND	65	33	ND	12	6.1	
123-91-1	1,4-Dioxane	ND	330	40	ND	91	11	
80-62-6	Methyl Methacrylate	ND	330	49	ND	80	12	
142-82-5	n-Heptane	ND	330	42	ND	80	10	
10061-01-5	cis-1,3-Dichloropropene	ND	330	34	ND	72	7.5	
108-10-1	4-Methyl-2-pentanone	ND	330	37	ND	80	8.9	
10061-02-6	trans-1,3-Dichloropropene	ND	330	41	ND	72	9.1	
79-00-5	1,1,2-Trichloroethane	ND	65	33	ND	12	6.0	
108-88-3	Toluene	ND	330	33	ND	87	8.7	
591-78-6	2-Hexanone	ND	330	50	ND	80	12	
124-48-1	Dibromochloromethane	ND	65	44	ND	7.7	5.2	
106-93-4	1,2-Dibromoethane	ND	65	35	ND	8.5	4.6	
111-65-9	n-Octane	ND	330	33	ND	70	7.0	
127-18-4	Tetrachloroethene	360	65	33	53	9.6	4.8	
108-90-7	Chlorobenzene	ND	65	33	ND	14	7.2	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG32B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-019

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00335

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 0.0025 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	330	40	ND	75	9.3	
179601-23-1	m,p-Xylenes	ND	330	85	ND	75	20	
75-25-2	Bromoform	ND	330	50	ND	32	4.8	
100-42-5	Styrene	ND	330	50	ND	77	12	
95-47-6	o-Xylene	ND	330	41	ND	75	9.5	
79-34-5	1,1,2,2-Tetrachloroethane	ND	65	42	ND	9.5	6.1	
98-82-8	Cumene	ND	330	37	ND	66	7.4	
103-65-1	n-Propylbenzene	ND	330	34	ND	66	6.9	
622-96-8	4-Ethyltoluene	ND	330	37	ND	66	7.6	
108-67-8	1,3,5-Trimethylbenzene	ND	330	39	ND	66	8.0	
98-83-9	alpha-Methylstyrene	ND	330	48	ND	67	9.9	
95-63-6	1,2,4-Trimethylbenzene	ND	330	45	ND	66	9.2	
100-44-7	Benzyl Chloride	ND	65	56	ND	13	11	
541-73-1	1,3-Dichlorobenzene	ND	65	40	ND	11	6.7	
106-46-7	1,4-Dichlorobenzene	ND	65	37	ND	11	6.1	
135-98-8	sec-Butylbenzene	ND	330	38	ND	59	6.9	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	330	42	ND	59	7.7	
95-50-1	1,2-Dichlorobenzene	ND	65	43	ND	11	7.2	
96-12-8	1,2-Dibromo-3-chloropropane	ND	330	50	ND	34	5.1	
120-82-1	1,2,4-Trichlorobenzene	ND	65	50	ND	8.8	6.7	
91-20-3	Naphthalene	ND	130	48	ND	25	9.2	
87-68-3	Hexachlorobutadiene	ND	65	59	ND	6.1	5.5	
98-06-6	tert-Butylbenzene	ND	130	33	ND	24	5.9	
104-51-8	n-Butylbenzene	ND	130	33	ND	24	5.9	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG63B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-020

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00994

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.80	0.080	0.43	0.16	0.016	
74-87-3	Chloromethane	0.099	0.16	0.080	0.048	0.078	0.039	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.099	0.80	0.080	0.014	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.16	0.080	ND	0.063	0.031	
74-83-9	Bromomethane	ND	0.16	0.080	ND	0.041	0.021	
75-00-3	Chloroethane	0.20	0.16	0.080	0.076	0.061	0.030	
64-17-5	Ethanol	3.4	8.0	0.080	1.8	4.2	0.042	J, B
67-64-1	Acetone	10	8.0	0.12	4.4	3.4	0.049	B
75-69-4	Trichlorofluoromethane	180	0.16	0.080	32	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.80	0.11	ND	0.37	0.052	
75-35-4	1,1-Dichloroethene	ND	0.16	0.080	ND	0.040	0.020	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.44	0.80	0.12	0.14	0.26	0.039	J
75-09-2	Methylene Chloride	0.13	0.80	0.080	0.036	0.23	0.023	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.080	ND	0.051	0.026	
76-13-1	Trichlorotrifluoroethane	0.48	0.16	0.090	0.063	0.021	0.012	
75-15-0	Carbon Disulfide	0.41	0.80	0.19	0.13	0.26	0.062	J, B
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.080	ND	0.040	0.020	
75-34-3	1,1-Dichloroethane	ND	0.16	0.080	ND	0.040	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.080	ND	0.044	0.022	
108-05-4	Vinyl Acetate	4.0	8.0	0.26	1.1	2.3	0.073	J, B
78-93-3	2-Butanone (MEK)	3.1	0.80	0.080	1.1	0.27	0.027	B
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.080	ND	0.040	0.020	
108-20-3	Diisopropyl Ether	ND	0.80	0.094	ND	0.19	0.023	
67-66-3	Chloroform	140	0.16	0.094	28	0.033	0.019	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:

Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG63B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-020

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00994

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.80	0.082	ND	0.19	0.020	
107-06-2	1,2-Dichloroethane	ND	0.16	0.080	ND	0.040	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.080	ND	0.029	0.015	
71-43-2	Benzene	1.1	0.16	0.080	0.34	0.050	0.025	
56-23-5	Carbon Tetrachloride	240	0.16	0.080	39	0.025	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.80	0.080	ND	0.19	0.019	
78-87-5	1,2-Dichloropropane	ND	0.16	0.080	ND	0.035	0.017	
75-27-4	Bromodichloromethane	4.4	0.16	0.080	0.66	0.024	0.012	
79-01-6	Trichloroethene	0.14	0.16	0.080	0.026	0.030	0.015	J
123-91-1	1,4-Dioxane	0.20	0.80	0.098	0.056	0.22	0.027	J
80-62-6	Methyl Methacrylate	ND	0.80	0.12	ND	0.20	0.029	
142-82-5	n-Heptane	ND	0.80	0.10	ND	0.20	0.025	
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.083	ND	0.18	0.018	
108-10-1	4-Methyl-2-pentanone	0.18	0.80	0.090	0.043	0.20	0.022	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.10	ND	0.18	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.080	ND	0.029	0.015	
108-88-3	Toluene	24	0.80	0.080	6.4	0.21	0.021	
591-78-6	2-Hexanone	0.41	0.80	0.12	0.10	0.20	0.030	J
124-48-1	Dibromochloromethane	1.1	0.16	0.11	0.12	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.086	ND	0.021	0.011	
111-65-9	n-Octane	ND	0.80	0.080	ND	0.17	0.017	
127-18-4	Tetrachloroethene	2.9	0.16	0.080	0.43	0.024	0.012	
108-90-7	Chlorobenzene	ND	0.16	0.082	ND	0.035	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG63B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-020

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00994

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.12	0.80	0.099	0.028	0.18	0.023	J
179601-23-1	m,p-Xylenes	0.58	0.80	0.21	0.13	0.18	0.048	J
75-25-2	Bromoform	ND	0.80	0.12	ND	0.077	0.012	
100-42-5	Styrene	ND	0.80	0.12	ND	0.19	0.029	
95-47-6	o-Xylene	0.30	0.80	0.10	0.070	0.18	0.023	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	Cumene	ND	0.80	0.090	ND	0.16	0.018	
103-65-1	n-Propylbenzene	0.16	0.80	0.083	0.033	0.16	0.017	J
622-96-8	4-Ethyltoluene	0.26	0.80	0.091	0.052	0.16	0.019	J
108-67-8	1,3,5-Trimethylbenzene	0.33	0.80	0.096	0.068	0.16	0.020	J
98-83-9	alpha-Methylstyrene	0.14	0.80	0.12	0.029	0.17	0.024	J
95-63-6	1,2,4-Trimethylbenzene	1.5	0.80	0.11	0.31	0.16	0.022	
100-44-7	Benzyl Chloride	0.22	0.16	0.14	0.042	0.031	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.099	ND	0.027	0.017	
106-46-7	1,4-Dichlorobenzene	8.7	0.16	0.090	1.4	0.027	0.015	
135-98-8	sec-Butylbenzene	ND	0.80	0.093	ND	0.15	0.017	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.17	0.80	0.10	0.031	0.15	0.019	J
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.11	ND	0.027	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.80	0.12	ND	0.083	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	0.12	ND	0.022	0.016	
91-20-3	Naphthalene	3.3	0.32	0.12	0.62	0.061	0.023	
87-68-3	Hexachlorobutadiene	ND	0.16	0.14	ND	0.015	0.014	
98-06-6	tert-Butylbenzene	ND	0.32	0.080	ND	0.058	0.015	
104-51-8	n-Butylbenzene	0.42	0.32	0.080	0.076	0.058	0.015	M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Date: 6/19/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG16B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-021

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00529

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.79	0.079	0.41	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.079	ND	0.076	0.038	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.12	0.79	0.079	0.017	0.11	0.011	J
75-01-4	Vinyl Chloride	0.094	0.16	0.079	0.037	0.061	0.031	J
74-83-9	Bromomethane	ND	0.16	0.079	ND	0.040	0.020	
75-00-3	Chloroethane	27	0.16	0.079	10	0.060	0.030	
64-17-5	Ethanol	5.7	7.9	0.079	3.0	4.2	0.042	J, B
67-64-1	Acetone	11	7.9	0.11	4.4	3.3	0.048	B
75-69-4	Trichlorofluoromethane	1.1	0.16	0.079	0.19	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.79	0.11	ND	0.36	0.051	
75-35-4	1,1-Dichloroethene	0.10	0.16	0.079	0.026	0.040	0.020	J
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.52	0.79	0.12	0.17	0.26	0.038	J
75-09-2	Methylene Chloride	6.4	0.79	0.079	1.8	0.23	0.023	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.079	ND	0.050	0.025	
76-13-1	Trichlorotrifluoroethane	0.47	0.16	0.088	0.062	0.020	0.011	
75-15-0	Carbon Disulfide	0.90	0.79	0.19	0.29	0.25	0.061	B
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
75-34-3	1,1-Dichloroethane	3.7	0.16	0.079	0.91	0.039	0.019	
1634-04-4	Methyl tert-Butyl Ether	0.13	0.16	0.079	0.037	0.044	0.022	J
108-05-4	Vinyl Acetate	0.84	7.9	0.25	0.24	2.2	0.071	J, B
78-93-3	2-Butanone (MEK)	4.4	0.79	0.079	1.5	0.27	0.027	B
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
108-20-3	Diisopropyl Ether	ND	0.79	0.093	ND	0.19	0.022	
67-66-3	Chloroform	84	0.16	0.093	17	0.032	0.019	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG16B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-021

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00529

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.79	0.080	ND	0.19	0.019	
107-06-2	1,2-Dichloroethane	0.77	0.16	0.079	0.19	0.039	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.079	ND	0.029	0.014	
71-43-2	Benzene	2.2	0.16	0.079	0.69	0.049	0.025	
56-23-5	Carbon Tetrachloride	0.35	0.16	0.079	0.056	0.025	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.79	0.079	ND	0.19	0.019	
78-87-5	1,2-Dichloropropane	ND	0.16	0.079	ND	0.034	0.017	
75-27-4	Bromodichloromethane	0.69	0.16	0.079	0.10	0.023	0.012	
79-01-6	Trichloroethene	4.4	0.16	0.079	0.82	0.029	0.015	
123-91-1	1,4-Dioxane	0.25	0.79	0.096	0.070	0.22	0.027	J
80-62-6	Methyl Methacrylate	ND	0.79	0.12	ND	0.19	0.029	
142-82-5	n-Heptane	0.36	0.79	0.10	0.087	0.19	0.025	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.082	ND	0.17	0.018	
108-10-1	4-Methyl-2-pentanone	ND	0.79	0.088	ND	0.19	0.021	
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.099	ND	0.17	0.022	
79-00-5	1,1,2-Trichloroethane	1.2	0.16	0.079	0.22	0.029	0.014	
108-88-3	Toluene	1.0	0.79	0.079	0.27	0.21	0.021	
591-78-6	2-Hexanone	0.38	0.79	0.12	0.093	0.19	0.029	J
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.018	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.085	ND	0.020	0.011	
111-65-9	n-Octane	0.24	0.79	0.079	0.052	0.17	0.017	J
127-18-4	Tetrachloroethene	87	0.16	0.079	13	0.023	0.012	
108-90-7	Chlorobenzene	1.5	0.16	0.080	0.33	0.034	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG16B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-021

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00529

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.23	0.79	0.097	0.052	0.18	0.022	J
179601-23-1	m,p-Xylenes	0.55	0.79	0.20	0.13	0.18	0.047	J
75-25-2	Bromoform	ND	0.79	0.12	ND	0.076	0.012	
100-42-5	Styrene	ND	0.79	0.12	ND	0.18	0.028	
95-47-6	o-Xylene	0.39	0.79	0.099	0.090	0.18	0.023	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	Cumene	ND	0.79	0.088	ND	0.16	0.018	
103-65-1	n-Propylbenzene	ND	0.79	0.082	ND	0.16	0.017	
622-96-8	4-Ethyltoluene	ND	0.79	0.089	ND	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	ND	0.79	0.094	ND	0.16	0.019	
98-83-9	alpha-Methylstyrene	0.54	0.79	0.11	0.11	0.16	0.024	J
95-63-6	1,2,4-Trimethylbenzene	0.25	0.79	0.11	0.051	0.16	0.022	J
100-44-7	Benzyl Chloride	ND	0.16	0.14	ND	0.030	0.026	
541-73-1	1,3-Dichlorobenzene	0.65	0.16	0.097	0.11	0.026	0.016	
106-46-7	1,4-Dichlorobenzene	0.48	0.16	0.088	0.080	0.026	0.015	
135-98-8	sec-Butylbenzene	ND	0.79	0.091	ND	0.14	0.017	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.79	0.10	ND	0.14	0.019	
95-50-1	1,2-Dichlorobenzene	0.71	0.16	0.10	0.12	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	0.12	ND	0.081	0.012	
120-82-1	1,2,4-Trichlorobenzene	1.6	0.16	0.12	0.21	0.021	0.016	
91-20-3	Naphthalene	0.72	0.31	0.12	0.14	0.060	0.022	
87-68-3	Hexachlorobutadiene	4.2	0.16	0.14	0.39	0.015	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.079	ND	0.057	0.014	
104-51-8	n-Butylbenzene	0.18	0.31	0.079	0.032	0.057	0.014	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG12B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-022

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00890

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.77	0.077	0.42	0.16	0.016	
74-87-3	Chloromethane	ND	0.15	0.077	ND	0.075	0.037	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.089	0.77	0.077	0.013	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.15	0.077	ND	0.060	0.030	
74-83-9	Bromomethane	ND	0.15	0.077	ND	0.040	0.020	
75-00-3	Chloroethane	0.14	0.15	0.077	0.051	0.058	0.029	J
64-17-5	Ethanol	32	7.7	0.077	17	4.1	0.041	B
67-64-1	Acetone	15	7.7	0.11	6.2	3.2	0.047	B
75-69-4	Trichlorofluoromethane	1.4	0.15	0.077	0.26	0.027	0.014	
107-13-1	Acrylonitrile	0.11	0.77	0.11	0.053	0.35	0.050	J
75-35-4	1,1-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.62	0.77	0.11	0.20	0.25	0.038	J
75-09-2	Methylene Chloride	0.40	0.77	0.077	0.11	0.22	0.022	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.077	ND	0.049	0.025	
76-13-1	Trichlorotrifluoroethane	0.63	0.15	0.086	0.082	0.020	0.011	
75-15-0	Carbon Disulfide	1.1	0.77	0.18	0.36	0.25	0.059	B
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
75-34-3	1,1-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
1634-04-4	Methyl tert-Butyl Ether	0.33	0.15	0.077	0.092	0.043	0.021	
108-05-4	Vinyl Acetate	1.3	7.7	0.25	0.36	2.2	0.070	J, B
78-93-3	2-Butanone (MEK)	7.0	0.77	0.077	2.4	0.26	0.026	B
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
108-20-3	Diisopropyl Ether	ND	0.77	0.091	ND	0.18	0.022	
67-66-3	Chloroform	270	0.15	0.091	56	0.032	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG12B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-022

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00890

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.77	0.079	ND	0.18	0.019	
107-06-2	1,2-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
71-43-2	Benzene	1.7	0.15	0.077	0.53	0.048	0.024	
56-23-5	Carbon Tetrachloride	7.8	0.15	0.077	1.2	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.77	0.077	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.077	ND	0.033	0.017	
75-27-4	Bromodichloromethane	0.67	0.15	0.077	0.10	0.023	0.011	
79-01-6	Trichloroethene	1.6	0.15	0.077	0.29	0.029	0.014	
123-91-1	1,4-Dioxane	0.15	0.77	0.094	0.041	0.21	0.026	J
80-62-6	Methyl Methacrylate	ND	0.77	0.12	ND	0.19	0.028	
142-82-5	n-Heptane	0.24	0.77	0.099	0.058	0.19	0.024	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.080	ND	0.17	0.018	
108-10-1	4-Methyl-2-pentanone	0.34	0.77	0.086	0.083	0.19	0.021	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.77	0.097	ND	0.17	0.021	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
108-88-3	Toluene	1.3	0.77	0.077	0.35	0.20	0.020	
591-78-6	2-Hexanone	0.39	0.77	0.12	0.094	0.19	0.029	J
124-48-1	Dibromochloromethane	ND	0.15	0.10	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.083	ND	0.020	0.011	
111-65-9	n-Octane	ND	0.77	0.077	ND	0.16	0.016	
127-18-4	Tetrachloroethene	5.1	0.15	0.077	0.75	0.023	0.011	
108-90-7	Chlorobenzene	0.31	0.15	0.079	0.068	0.033	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG12B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-022

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00890

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.10	0.77	0.095	0.024	0.18	0.022	J
179601-23-1	m,p-Xylenes	0.29	0.77	0.20	0.067	0.18	0.046	J
75-25-2	Bromoform	ND	0.77	0.12	ND	0.075	0.011	
100-42-5	Styrene	ND	0.77	0.12	ND	0.18	0.028	
95-47-6	o-Xylene	0.12	0.77	0.097	0.029	0.18	0.022	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.099	ND	0.022	0.014	
98-82-8	Cumene	0.12	0.77	0.086	0.024	0.16	0.018	J
103-65-1	n-Propylbenzene	ND	0.77	0.080	ND	0.16	0.016	
622-96-8	4-Ethyltoluene	ND	0.77	0.088	ND	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	ND	0.77	0.092	ND	0.16	0.019	
98-83-9	alpha-Methylstyrene	7.7	0.77	0.11	1.6	0.16	0.023	
95-63-6	1,2,4-Trimethylbenzene	0.12	0.77	0.11	0.025	0.16	0.022	J
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.030	0.026	
541-73-1	1,3-Dichlorobenzene	0.32	0.15	0.095	0.053	0.026	0.016	
106-46-7	1,4-Dichlorobenzene	0.47	0.15	0.086	0.078	0.026	0.014	
135-98-8	sec-Butylbenzene	ND	0.77	0.089	ND	0.14	0.016	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.77	0.10	ND	0.14	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.10	ND	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	0.12	ND	0.080	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	0.12	ND	0.021	0.016	
91-20-3	Naphthalene	0.42	0.31	0.11	0.080	0.059	0.022	
87-68-3	Hexachlorobutadiene	0.61	0.15	0.14	0.057	0.014	0.013	
98-06-6	tert-Butylbenzene	0.14	0.31	0.077	0.025	0.056	0.014	J
104-51-8	n-Butylbenzene	0.14	0.31	0.077	0.025	0.056	0.014	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: 64 Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG08B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-023

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00578

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.75	0.075	0.45	0.15	0.015	
74-87-3	Chloromethane	0.083	0.15	0.075	0.040	0.072	0.036	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.10	0.75	0.075	0.015	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.15	0.075	ND	0.058	0.029	
74-83-9	Bromomethane	ND	0.15	0.075	ND	0.038	0.019	
75-00-3	Chloroethane	0.39	0.15	0.075	0.15	0.056	0.028	
64-17-5	Ethanol	8.7	7.5	0.075	4.6	4.0	0.040	B
67-64-1	Acetone	12	7.5	0.11	4.9	3.1	0.046	B
75-69-4	Trichlorofluoromethane	3.6	0.15	0.075	0.64	0.027	0.013	
107-13-1	Acrylonitrile	ND	0.75	0.10	ND	0.34	0.048	
75-35-4	1,1-Dichloroethene	ND	0.15	0.075	ND	0.038	0.019	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.60	0.75	0.11	0.20	0.25	0.036	J
75-09-2	Methylene Chloride	0.55	0.75	0.075	0.16	0.21	0.021	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.075	ND	0.048	0.024	
76-13-1	Trichlorotrifluoroethane	0.50	0.15	0.083	0.065	0.019	0.011	
75-15-0	Carbon Disulfide	9.6	0.75	0.18	3.1	0.24	0.057	B
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.075	ND	0.038	0.019	
75-34-3	1,1-Dichloroethane	0.079	0.15	0.075	0.020	0.037	0.018	J
1634-04-4	Methyl tert-Butyl Ether	3.7	0.15	0.075	1.0	0.041	0.021	
108-05-4	Vinyl Acetate	2.7	7.5	0.24	0.76	2.1	0.068	J, B
78-93-3	2-Butanone (MEK)	5.7	0.75	0.075	1.9	0.25	0.025	B
156-59-2	cis-1,2-Dichloroethene	0.13	0.15	0.075	0.033	0.038	0.019	J
108-20-3	Diisopropyl Ether	ND	0.75	0.088	ND	0.18	0.021	
67-66-3	Chloroform	530	0.15	0.088	110	0.031	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG08B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-023

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00578

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.75	0.076	ND	0.18	0.018	
107-06-2	1,2-Dichloroethane	ND	0.15	0.075	ND	0.037	0.018	
71-55-6	1,1,1-Trichloroethane	0.10	0.15	0.075	0.019	0.027	0.014	J
71-43-2	Benzene	2.4	0.15	0.075	0.75	0.047	0.023	
56-23-5	Carbon Tetrachloride	16	0.15	0.075	2.6	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.75	0.075	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.075	ND	0.032	0.016	
75-27-4	Bromodichloromethane	0.62	0.15	0.075	0.092	0.022	0.011	
79-01-6	Trichloroethene	1.3	0.15	0.075	0.23	0.028	0.014	
123-91-1	1,4-Dioxane	ND	0.75	0.091	ND	0.21	0.025	
80-62-6	Methyl Methacrylate	ND	0.75	0.11	ND	0.18	0.027	
142-82-5	n-Heptane	0.35	0.75	0.095	0.086	0.18	0.023	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.077	ND	0.16	0.017	
108-10-1	4-Methyl-2-pentanone	0.23	0.75	0.083	0.055	0.18	0.020	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	0.094	ND	0.16	0.021	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.075	ND	0.027	0.014	
108-88-3	Toluene	1.6	0.75	0.075	0.43	0.20	0.020	
591-78-6	2-Hexanone	0.35	0.75	0.11	0.087	0.18	0.028	J
124-48-1	Dibromochloromethane	ND	0.15	0.10	ND	0.017	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.080	ND	0.019	0.010	
111-65-9	n-Octane	0.25	0.75	0.075	0.054	0.16	0.016	J
127-18-4	Tetrachloroethene	8.1	0.15	0.075	1.2	0.022	0.011	
108-90-7	Chlorobenzene	0.085	0.15	0.076	0.018	0.032	0.017	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG08B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-023

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00578

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.51	0.75	0.092	0.12	0.17	0.021	J
179601-23-1	m,p-Xylenes	1.4	0.75	0.19	0.31	0.17	0.045	
75-25-2	Bromoform	ND	0.75	0.11	ND	0.072	0.011	
100-42-5	Styrene	0.31	0.75	0.11	0.072	0.18	0.027	J
95-47-6	o-Xylene	0.55	0.75	0.094	0.13	0.17	0.022	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.095	ND	0.022	0.014	
98-82-8	Cumene	ND	0.75	0.083	ND	0.15	0.017	
103-65-1	n-Propylbenzene	0.13	0.75	0.077	0.027	0.15	0.016	J
622-96-8	4-Ethyltoluene	0.11	0.75	0.085	0.022	0.15	0.017	J
108-67-8	1,3,5-Trimethylbenzene	0.27	0.75	0.089	0.054	0.15	0.018	J
98-83-9	alpha-Methylstyrene	ND	0.75	0.11	ND	0.15	0.023	
95-63-6	1,2,4-Trimethylbenzene	0.60	0.75	0.10	0.12	0.15	0.021	J
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.029	0.025	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.092	ND	0.025	0.015	
106-46-7	1,4-Dichlorobenzene	0.27	0.15	0.083	0.046	0.025	0.014	
135-98-8	sec-Butylbenzene	ND	0.75	0.086	ND	0.14	0.016	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.52	0.75	0.097	0.095	0.14	0.018	J
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.098	ND	0.025	0.016	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	0.11	ND	0.077	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	0.11	ND	0.020	0.015	
91-20-3	Naphthalene	0.44	0.30	0.11	0.084	0.057	0.021	
87-68-3	Hexachlorobutadiene	ND	0.15	0.13	ND	0.014	0.013	
98-06-6	tert-Butylbenzene	ND	0.30	0.075	ND	0.054	0.014	
104-51-8	n-Butylbenzene	0.16	0.30	0.075	0.029	0.054	0.014	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: *cat* Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG09B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-024

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00924

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.65

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data Qualifier
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.83	0.083	0.44	0.17	0.017	
74-87-3	Chloromethane	ND	0.17	0.083	ND	0.080	0.040	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.83	0.083	ND	0.12	0.012	
75-01-4	Vinyl Chloride	ND	0.17	0.083	ND	0.065	0.032	
74-83-9	Bromomethane	ND	0.17	0.083	ND	0.043	0.021	
75-00-3	Chloroethane	1.9	0.17	0.083	0.70	0.063	0.031	
64-17-5	Ethanol	12	8.3	0.083	6.4	4.4	0.044	B
67-64-1	Acetone	34	8.3	0.12	14	3.5	0.051	B
75-69-4	Trichlorofluoromethane	1.1	0.17	0.083	0.20	0.029	0.015	
107-13-1	Acrylonitrile	0.15	0.83	0.12	0.068	0.38	0.053	J
75-35-4	1,1-Dichloroethene	0.19	0.17	0.083	0.047	0.042	0.021	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.58	0.83	0.12	0.19	0.27	0.040	J
75-09-2	Methylene Chloride	1.3	0.83	0.083	0.37	0.24	0.024	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	0.19	0.17	0.083	0.060	0.053	0.026	
76-13-1	Trichlorotrifluoroethane	0.50	0.17	0.092	0.065	0.022	0.012	
75-15-0	Carbon Disulfide	5.7	0.83	0.20	1.8	0.27	0.064	B
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.083	ND	0.042	0.021	
75-34-3	1,1-Dichloroethane	0.17	0.17	0.083	0.042	0.041	0.020	
1634-04-4	Methyl tert-Butyl Ether	2.6	0.17	0.083	0.73	0.046	0.023	
108-05-4	Vinyl Acetate	3.8	8.3	0.26	1.1	2.3	0.075	J, B
78-93-3	2-Butanone (MEK)	15	0.83	0.083	5.2	0.28	0.028	B
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.083	ND	0.042	0.021	
108-20-3	Diisopropyl Ether	ND	0.83	0.097	ND	0.20	0.023	
67-66-3	Chloroform	1,100	0.17	0.097	220	0.034	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/9/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG09B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-024

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00924

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.83	0.084	ND	0.20	0.020	
107-06-2	1,2-Dichloroethane	ND	0.17	0.083	ND	0.041	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.083	ND	0.030	0.015	
71-43-2	Benzene	2.7	0.17	0.083	0.83	0.052	0.026	
56-23-5	Carbon Tetrachloride	35	0.17	0.083	5.6	0.026	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.83	0.083	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	0.22	0.17	0.083	0.048	0.036	0.018	
75-27-4	Bromodichloromethane	0.75	0.17	0.083	0.11	0.025	0.012	
79-01-6	Trichloroethene	9.8	0.17	0.083	1.8	0.031	0.015	
123-91-1	1,4-Dioxane	0.26	0.83	0.10	0.072	0.23	0.028	J
80-62-6	Methyl Methacrylate	ND	0.83	0.12	ND	0.20	0.030	
142-82-5	n-Heptane	0.30	0.83	0.11	0.072	0.20	0.026	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	0.086	ND	0.18	0.019	
108-10-1	4-Methyl-2-pentanone	0.32	0.83	0.092	0.079	0.20	0.023	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	0.10	ND	0.18	0.023	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.083	ND	0.030	0.015	
108-88-3	Toluene	1.3	0.83	0.083	0.35	0.22	0.022	
591-78-6	2-Hexanone	0.76	0.83	0.13	0.19	0.20	0.031	J
124-48-1	Dibromochloromethane	0.12	0.17	0.11	0.015	0.019	0.013	J
106-93-4	1,2-Dibromoethane	ND	0.17	0.089	ND	0.021	0.012	
111-65-9	n-Octane	ND	0.83	0.083	ND	0.18	0.018	
127-18-4	Tetrachloroethene	13	0.17	0.083	1.9	0.024	0.012	
108-90-7	Chlorobenzene	0.13	0.17	0.084	0.029	0.036	0.018	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG09B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-024

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00924

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.26	0.83	0.10	0.061	0.19	0.024	J
179601-23-1	m,p-Xylenes	2.0	0.83	0.21	0.46	0.19	0.049	
75-25-2	Bromoform	ND	0.83	0.13	ND	0.080	0.012	
100-42-5	Styrene	ND	0.83	0.13	ND	0.19	0.029	
95-47-6	o-Xylene	1.6	0.83	0.10	0.36	0.19	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.024	0.015	
98-82-8	Cumene	0.10	0.83	0.092	0.021	0.17	0.019	J
103-65-1	n-Propylbenzene	0.24	0.83	0.086	0.049	0.17	0.017	J
622-96-8	4-Ethyltoluene	0.81	0.83	0.094	0.17	0.17	0.019	J
108-67-8	1,3,5-Trimethylbenzene	0.96	0.83	0.099	0.20	0.17	0.020	
98-83-9	alpha-Methylstyrene	ND	0.83	0.12	ND	0.17	0.025	
95-63-6	1,2,4-Trimethylbenzene	3.8	0.83	0.11	0.78	0.17	0.023	
100-44-7	Benzyl Chloride	ND	0.17	0.14	ND	0.032	0.027	
541-73-1	1,3-Dichlorobenzene	0.41	0.17	0.10	0.068	0.027	0.017	
106-46-7	1,4-Dichlorobenzene	0.26	0.17	0.092	0.043	0.027	0.015	
135-98-8	sec-Butylbenzene	ND	0.83	0.096	ND	0.15	0.017	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.23	0.83	0.11	0.042	0.15	0.020	J
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.11	ND	0.027	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.83	0.13	ND	0.085	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	0.13	ND	0.022	0.017	
91-20-3	Naphthalene	2.4	0.33	0.12	0.46	0.063	0.023	
87-68-3	Hexachlorobutadiene	0.21	0.17	0.15	0.020	0.015	0.014	
98-06-6	tert-Butylbenzene	ND	0.33	0.083	ND	0.060	0.015	
104-51-8	n-Butylbenzene	0.77	0.33	0.083	0.14	0.060	0.015	M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG11B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-025

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00953

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.74	0.074	0.42	0.15	0.015	
74-87-3	Chloromethane	0.076	0.15	0.074	0.037	0.071	0.036	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.10	0.74	0.074	0.015	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.15	0.074	ND	0.058	0.029	
74-83-9	Bromomethane	ND	0.15	0.074	ND	0.038	0.019	
75-00-3	Chloroethane	0.15	0.15	0.074	0.055	0.056	0.028	J
64-17-5	Ethanol	16	7.4	0.074	8.3	3.9	0.039	B
67-64-1	Acetone	50	7.4	0.11	21	3.1	0.045	B
75-69-4	Trichlorofluoromethane	1.1	0.15	0.074	0.19	0.026	0.013	
107-13-1	Acrylonitrile	0.12	0.74	0.10	0.056	0.34	0.047	J
75-35-4	1,1-Dichloroethene	0.10	0.15	0.074	0.025	0.037	0.019	J
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.67	0.74	0.11	0.22	0.24	0.036	J
75-09-2	Methylene Chloride	0.68	0.74	0.074	0.20	0.21	0.021	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.074	ND	0.047	0.023	
76-13-1	Trichlorotrifluoroethane	0.48	0.15	0.082	0.062	0.019	0.011	
75-15-0	Carbon Disulfide	1.4	0.74	0.18	0.46	0.24	0.057	B
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.074	ND	0.037	0.019	
75-34-3	1,1-Dichloroethane	0.11	0.15	0.074	0.026	0.036	0.018	J
1634-04-4	Methyl tert-Butyl Ether	7.8	0.15	0.074	2.2	0.041	0.020	
108-05-4	Vinyl Acetate	5.0	7.4	0.24	1.4	2.1	0.067	J, B
78-93-3	2-Butanone (MEK)	8.9	0.74	0.074	3.0	0.25	0.025	B
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.074	ND	0.037	0.019	
108-20-3	Diisopropyl Ether	ND	0.74	0.087	ND	0.18	0.021	
67-66-3	Chloroform	400	0.15	0.087	83	0.030	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG11B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-025

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00953

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.74	0.075	ND	0.18	0.018	
107-06-2	1,2-Dichloroethane	ND	0.15	0.074	ND	0.036	0.018	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.074	ND	0.027	0.013	
71-43-2	Benzene	2.0	0.15	0.074	0.61	0.046	0.023	
56-23-5	Carbon Tetrachloride	11	0.15	0.074	1.7	0.023	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.74	0.074	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	0.14	0.15	0.074	0.030	0.032	0.016	J
75-27-4	Bromodichloromethane	0.33	0.15	0.074	0.049	0.022	0.011	
79-01-6	Trichloroethene	1.0	0.15	0.074	0.19	0.027	0.014	
123-91-1	1,4-Dioxane	0.14	0.74	0.090	0.038	0.20	0.025	J
80-62-6	Methyl Methacrylate	ND	0.74	0.11	ND	0.18	0.027	
142-82-5	n-Heptane	0.58	0.74	0.094	0.14	0.18	0.023	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	0.076	ND	0.16	0.017	
108-10-1	4-Methyl-2-pentanone	0.35	0.74	0.082	0.086	0.18	0.020	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	0.093	ND	0.16	0.020	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.074	ND	0.027	0.013	
108-88-3	Toluene	1.8	0.74	0.074	0.49	0.20	0.020	
591-78-6	2-Hexanone	0.46	0.74	0.11	0.11	0.18	0.027	J
124-48-1	Dibromochloromethane	ND	0.15	0.10	ND	0.017	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.079	ND	0.019	0.010	
111-65-9	n-Octane	0.27	0.74	0.074	0.057	0.16	0.016	J
127-18-4	Tetrachloroethene	7.2	0.15	0.074	1.1	0.022	0.011	
108-90-7	Chlorobenzene	ND	0.15	0.075	ND	0.032	0.016	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG11B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-025

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00953

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.21	0.74	0.091	0.049	0.17	0.021	J
179601-23-1	m,p-Xylenes	0.64	0.74	0.19	0.15	0.17	0.044	J
75-25-2	Bromoform	ND	0.74	0.11	ND	0.071	0.011	
100-42-5	Styrene	0.30	0.74	0.11	0.070	0.17	0.026	J
95-47-6	o-Xylene	0.29	0.74	0.093	0.067	0.17	0.021	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.094	ND	0.021	0.014	
98-82-8	Cumene	ND	0.74	0.082	ND	0.15	0.017	
103-65-1	n-Propylbenzene	0.084	0.74	0.076	0.017	0.15	0.016	J
622-96-8	4-Ethyltoluene	0.11	0.74	0.084	0.023	0.15	0.017	J
108-67-8	1,3,5-Trimethylbenzene	0.090	0.74	0.088	0.018	0.15	0.018	J
98-83-9	alpha-Methylstyrene	ND	0.74	0.11	ND	0.15	0.022	
95-63-6	1,2,4-Trimethylbenzene	0.36	0.74	0.10	0.073	0.15	0.021	J
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.028	0.024	
541-73-1	1,3-Dichlorobenzene	0.18	0.15	0.091	0.031	0.024	0.015	
106-46-7	1,4-Dichlorobenzene	0.76	0.15	0.082	0.13	0.024	0.014	
135-98-8	sec-Butylbenzene	ND	0.74	0.085	ND	0.13	0.016	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.16	0.74	0.096	0.029	0.13	0.017	J
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.097	ND	0.024	0.016	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.74	0.11	ND	0.076	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	0.11	ND	0.020	0.015	
91-20-3	Naphthalene	0.76	0.29	0.11	0.14	0.056	0.021	
87-68-3	Hexachlorobutadiene	1.0	0.15	0.13	0.098	0.014	0.012	
98-06-6	tert-Butylbenzene	ND	0.29	0.074	ND	0.054	0.013	
104-51-8	n-Butylbenzene	0.21	0.29	0.074	0.038	0.054	0.013	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG10B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-026

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00773

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.78	0.078	0.42	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.078	ND	0.075	0.038	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.10	0.78	0.078	0.014	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.16	0.078	ND	0.061	0.030	
74-83-9	Bromomethane	ND	0.16	0.078	ND	0.040	0.020	
75-00-3	Chloroethane	ND	0.16	0.078	ND	0.059	0.029	
64-17-5	Ethanol	30	7.8	0.078	16	4.1	0.041	B
67-64-1	Acetone	24	7.8	0.11	10	3.3	0.048	B
75-69-4	Trichlorofluoromethane	1.2	0.16	0.078	0.21	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.78	0.11	ND	0.36	0.050	
75-35-4	1,1-Dichloroethene	ND	0.16	0.078	ND	0.039	0.020	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.49	0.78	0.11	0.16	0.26	0.038	J
75-09-2	Methylene Chloride	0.23	0.78	0.078	0.067	0.22	0.022	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.078	ND	0.050	0.025	
76-13-1	Trichlorotrifluoroethane	0.49	0.16	0.087	0.064	0.020	0.011	
75-15-0	Carbon Disulfide	14	0.78	0.19	4.4	0.25	0.060	B
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.078	ND	0.039	0.020	
75-34-3	1,1-Dichloroethane	ND	0.16	0.078	ND	0.038	0.019	
1634-04-4	Methyl tert-Butyl Ether	2.9	0.16	0.078	0.79	0.043	0.022	
108-05-4	Vinyl Acetate	2.6	7.8	0.25	0.73	2.2	0.070	J, B
78-93-3	2-Butanone (MEK)	7.4	0.78	0.078	2.5	0.26	0.026	B
156-59-2	cis-1,2-Dichloroethene	0.15	0.16	0.078	0.037	0.039	0.020	J
108-20-3	Diisopropyl Ether	ND	0.78	0.091	ND	0.19	0.022	
67-66-3	Chloroform	440	0.16	0.091	90	0.032	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG10B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-026

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00773

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.78	0.079	ND	0.19	0.019	
107-06-2	1,2-Dichloroethane	ND	0.16	0.078	ND	0.038	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.078	ND	0.028	0.014	
71-43-2	Benzene	1.5	0.16	0.078	0.48	0.049	0.024	
56-23-5	Carbon Tetrachloride	5.9	0.16	0.078	0.94	0.025	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.78	0.078	ND	0.19	0.019	
78-87-5	1,2-Dichloropropane	ND	0.16	0.078	ND	0.034	0.017	
75-27-4	Bromodichloromethane	0.24	0.16	0.078	0.035	0.023	0.012	
79-01-6	Trichloroethene	0.96	0.16	0.078	0.18	0.029	0.014	
123-91-1	1,4-Dioxane	0.16	0.78	0.095	0.045	0.22	0.026	J
80-62-6	Methyl Methacrylate	ND	0.78	0.12	ND	0.19	0.028	
142-82-5	n-Heptane	0.25	0.78	0.099	0.061	0.19	0.024	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.78	0.081	ND	0.17	0.018	
108-10-1	4-Methyl-2-pentanone	0.16	0.78	0.087	0.039	0.19	0.021	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.78	0.098	ND	0.17	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.078	ND	0.028	0.014	
108-88-3	Toluene	2.0	0.78	0.078	0.54	0.21	0.021	
591-78-6	2-Hexanone	0.43	0.78	0.12	0.11	0.19	0.029	J
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.084	ND	0.020	0.011	
111-65-9	n-Octane	0.23	0.78	0.078	0.049	0.17	0.017	J
127-18-4	Tetrachloroethene	5.3	0.16	0.078	0.79	0.023	0.011	
108-90-7	Chlorobenzene	0.17	0.16	0.079	0.037	0.034	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG10B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-026

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00773

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.33	0.78	0.096	0.077	0.18	0.022	J
179601-23-1	m,p-Xylenes	1.1	0.78	0.20	0.26	0.18	0.046	
75-25-2	Bromoform	ND	0.78	0.12	ND	0.075	0.011	
100-42-5	Styrene	0.60	0.78	0.12	0.14	0.18	0.028	J
95-47-6	o-Xylene	0.42	0.78	0.098	0.096	0.18	0.022	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.099	ND	0.023	0.014	
98-82-8	Cumene	ND	0.78	0.087	ND	0.16	0.018	
103-65-1	n-Propylbenzene	0.12	0.78	0.081	0.024	0.16	0.016	J
622-96-8	4-Ethyltoluene	0.17	0.78	0.088	0.034	0.16	0.018	J
108-67-8	1,3,5-Trimethylbenzene	0.15	0.78	0.093	0.030	0.16	0.019	J
98-83-9	alpha-Methylstyrene	ND	0.78	0.11	ND	0.16	0.023	
95-63-6	1,2,4-Trimethylbenzene	0.48	0.78	0.11	0.098	0.16	0.022	J
100-44-7	Benzyl Chloride	ND	0.16	0.13	ND	0.030	0.026	
541-73-1	1,3-Dichlorobenzene	0.098	0.16	0.096	0.016	0.026	0.016	J
106-46-7	1,4-Dichlorobenzene	0.87	0.16	0.087	0.15	0.026	0.014	
135-98-8	sec-Butylbenzene	ND	0.78	0.090	ND	0.14	0.016	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.59	0.78	0.10	0.11	0.14	0.018	J
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.10	ND	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.78	0.12	ND	0.080	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	0.12	ND	0.021	0.016	
91-20-3	Naphthalene	1.3	0.31	0.11	0.24	0.059	0.022	
87-68-3	Hexachlorobutadiene	ND	0.16	0.14	ND	0.015	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.078	ND	0.056	0.014	
104-51-8	n-Butylbenzene	0.29	0.31	0.078	0.052	0.056	0.014	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG07B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-027

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00283

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.85	0.085	0.42	0.17	0.017	
74-87-3	Chloromethane	0.11	0.17	0.085	0.053	0.082	0.041	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.85	0.085	ND	0.12	0.012	
75-01-4	Vinyl Chloride	ND	0.17	0.085	ND	0.066	0.033	
74-83-9	Bromomethane	0.091	0.17	0.085	0.024	0.044	0.022	J
75-00-3	Chloroethane	1.3	0.17	0.085	0.48	0.064	0.032	
64-17-5	Ethanol	5.1	8.5	0.085	2.7	4.5	0.045	J, B
67-64-1	Acetone	11	8.5	0.12	4.7	3.6	0.052	B
75-69-4	Trichlorofluoromethane	1.4	0.17	0.085	0.25	0.030	0.015	
107-13-1	Acrylonitrile	ND	0.85	0.12	ND	0.39	0.055	
75-35-4	1,1-Dichloroethene	0.24	0.17	0.085	0.060	0.043	0.021	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.37	0.85	0.13	0.12	0.28	0.041	J
75-09-2	Methylene Chloride	2.5	0.85	0.085	0.72	0.24	0.024	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.085	ND	0.054	0.027	
76-13-1	Trichlorotrifluoroethane	0.54	0.17	0.095	0.070	0.022	0.012	
75-15-0	Carbon Disulfide	2.9	0.85	0.20	0.93	0.27	0.065	B
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.085	ND	0.043	0.021	
75-34-3	1,1-Dichloroethane	ND	0.17	0.085	ND	0.042	0.021	
1634-04-4	Methyl tert-Butyl Ether	13	0.17	0.085	3.6	0.047	0.023	
108-05-4	Vinyl Acetate	3.2	8.5	0.27	0.92	2.4	0.077	J, B
78-93-3	2-Butanone (MEK)	4.5	0.85	0.085	1.5	0.29	0.029	B
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.085	ND	0.043	0.021	
108-20-3	Diisopropyl Ether	ND	0.85	0.10	ND	0.20	0.024	
67-66-3	Chloroform	430	0.17	0.10	88	0.035	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: LA Date: 6/9/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG07B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-027

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00283

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.85	0.086	ND	0.20	0.021	
107-06-2	1,2-Dichloroethane	ND	0.17	0.085	ND	0.042	0.021	
71-55-6	1,1,1-Trichloroethane	0.11	0.17	0.085	0.020	0.031	0.015	J
71-43-2	Benzene	3.3	0.17	0.085	1.0	0.053	0.026	
56-23-5	Carbon Tetrachloride	19	0.17	0.085	3.0	0.027	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.85	0.085	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	ND	0.17	0.085	ND	0.037	0.018	
75-27-4	Bromodichloromethane	1.2	0.17	0.085	0.18	0.025	0.013	
79-01-6	Trichloroethene	1.8	0.17	0.085	0.34	0.031	0.016	
123-91-1	1,4-Dioxane	0.34	0.85	0.10	0.095	0.23	0.029	J
80-62-6	Methyl Methacrylate	ND	0.85	0.13	ND	0.21	0.031	
142-82-5	n-Heptane	0.11	0.85	0.11	0.026	0.21	0.026	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	0.088	ND	0.19	0.019	
108-10-1	4-Methyl-2-pentanone	0.15	0.85	0.095	0.036	0.21	0.023	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	0.11	ND	0.19	0.023	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.085	ND	0.031	0.015	
108-88-3	Toluene	1.0	0.85	0.085	0.27	0.22	0.022	
591-78-6	2-Hexanone	0.32	0.85	0.13	0.077	0.21	0.031	J
124-48-1	Dibromochloromethane	0.23	0.17	0.11	0.027	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.091	ND	0.022	0.012	
111-65-9	n-Octane	0.36	0.85	0.085	0.077	0.18	0.018	J
127-18-4	Tetrachloroethene	5.4	0.17	0.085	0.79	0.025	0.012	
108-90-7	Chlorobenzene	0.18	0.17	0.086	0.040	0.037	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG07B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-027

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00283

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.21	0.85	0.10	0.049	0.19	0.024	J
179601-23-1	m,p-Xylenes	0.96	0.85	0.22	0.22	0.19	0.051	
75-25-2	Bromoform	ND	0.85	0.13	ND	0.082	0.012	
100-42-5	Styrene	0.17	0.85	0.13	0.039	0.20	0.030	J
95-47-6	o-Xylene	0.47	0.85	0.11	0.11	0.19	0.025	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.025	0.016	
98-82-8	Cumene	ND	0.85	0.095	ND	0.17	0.019	
103-65-1	n-Propylbenzene	0.16	0.85	0.088	0.032	0.17	0.018	J
622-96-8	4-Ethyltoluene	0.23	0.85	0.096	0.046	0.17	0.020	J
108-67-8	1,3,5-Trimethylbenzene	0.24	0.85	0.10	0.049	0.17	0.021	J
98-83-9	alpha-Methylstyrene	ND	0.85	0.12	ND	0.17	0.026	
95-63-6	1,2,4-Trimethylbenzene	0.80	0.85	0.12	0.16	0.17	0.024	J
100-44-7	Benzyl Chloride	ND	0.17	0.15	ND	0.033	0.028	
541-73-1	1,3-Dichlorobenzene	0.37	0.17	0.10	0.061	0.028	0.017	
106-46-7	1,4-Dichlorobenzene	1.1	0.17	0.095	0.19	0.028	0.016	
135-98-8	sec-Butylbenzene	ND	0.85	0.098	ND	0.15	0.018	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.20	0.85	0.11	0.036	0.15	0.020	J
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.11	ND	0.028	0.019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.85	0.13	ND	0.087	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	0.13	ND	0.023	0.017	
91-20-3	Naphthalene	0.95	0.34	0.13	0.18	0.065	0.024	
87-68-3	Hexachlorobutadiene	ND	0.17	0.15	ND	0.016	0.014	
98-06-6	tert-Butylbenzene	ND	0.34	0.085	ND	0.062	0.015	
104-51-8	n-Butylbenzene	0.39	0.34	0.085	0.071	0.062	0.015	M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG07B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-028

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00104

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.85	0.085	0.41	0.17	0.017	
74-87-3	Chloromethane	ND	0.17	0.085	ND	0.082	0.041	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.85	0.085	ND	0.12	0.012	
75-01-4	Vinyl Chloride	ND	0.17	0.085	ND	0.066	0.033	
74-83-9	Bromomethane	0.088	0.17	0.085	0.023	0.044	0.022	J
75-00-3	Chloroethane	1.3	0.17	0.085	0.47	0.064	0.032	
64-17-5	Ethanol	4.9	8.5	0.085	2.6	4.5	0.045	J
67-64-1	Acetone	18	8.5	0.12	7.6	3.6	0.052	B
75-69-4	Trichlorofluoromethane	1.4	0.17	0.085	0.25	0.030	0.015	
107-13-1	Acrylonitrile	0.14	0.85	0.12	0.065	0.39	0.055	J
75-35-4	1,1-Dichloroethene	0.23	0.17	0.085	0.059	0.043	0.021	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.45	0.85	0.13	0.15	0.28	0.041	J
75-09-2	Methylene Chloride	2.4	0.85	0.085	0.70	0.24	0.024	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.085	ND	0.054	0.027	
76-13-1	Trichlorotrifluoroethane	0.54	0.17	0.095	0.071	0.022	0.012	
75-15-0	Carbon Disulfide	4.7	0.85	0.20	1.5	0.27	0.065	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.085	ND	0.043	0.021	
75-34-3	1,1-Dichloroethane	ND	0.17	0.085	ND	0.042	0.021	
1634-04-4	Methyl tert-Butyl Ether	13	0.17	0.085	3.7	0.047	0.023	
108-05-4	Vinyl Acetate	6.6	8.5	0.27	1.9	2.4	0.077	J
78-93-3	2-Butanone (MEK)	5.4	0.85	0.085	1.8	0.29	0.029	B
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.085	ND	0.043	0.021	
108-20-3	Diisopropyl Ether	ND	0.85	0.10	ND	0.20	0.024	
67-66-3	Chloroform	420	0.17	0.10	87	0.035	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG07B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-028

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00104

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data Qualifier
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	
637-92-3	Ethyl tert-Butyl Ether	ND	0.85	0.086	ND	0.20	0.021	
107-06-2	1,2-Dichloroethane	ND	0.17	0.085	ND	0.042	0.021	
71-55-6	1,1,1-Trichloroethane	0.11	0.17	0.085	0.020	0.031	0.015	J
71-43-2	Benzene	2.8	0.17	0.085	0.87	0.053	0.026	
56-23-5	Carbon Tetrachloride	19	0.17	0.085	3.0	0.027	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.85	0.085	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	ND	0.17	0.085	ND	0.037	0.018	
75-27-4	Bromodichloromethane	1.4	0.17	0.085	0.21	0.025	0.013	
79-01-6	Trichloroethene	2.1	0.17	0.085	0.39	0.031	0.016	
123-91-1	1,4-Dioxane	0.79	0.85	0.10	0.22	0.23	0.029	J
80-62-6	Methyl Methacrylate	ND	0.85	0.13	ND	0.21	0.031	
142-82-5	n-Heptane	1.0	0.85	0.11	0.25	0.21	0.026	
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	0.088	ND	0.19	0.019	
108-10-1	4-Methyl-2-pentanone	0.38	0.85	0.095	0.093	0.21	0.023	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	0.11	ND	0.19	0.023	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.085	ND	0.031	0.015	
108-88-3	Toluene	0.99	0.85	0.085	0.26	0.22	0.022	
591-78-6	2-Hexanone	1.7	0.85	0.13	0.42	0.21	0.031	
124-48-1	Dibromochloromethane	0.19	0.17	0.11	0.023	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.091	ND	0.022	0.012	
111-65-9	n-Octane	1.3	0.85	0.085	0.27	0.18	0.018	
127-18-4	Tetrachloroethene	5.4	0.17	0.085	0.80	0.025	0.012	
108-90-7	Chlorobenzene	0.24	0.17	0.086	0.052	0.037	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG07B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-028

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00104

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	1.8	0.85	0.10	0.42	0.19	0.024	
179601-23-1	m,p-Xylenes	7.1	0.85	0.22	1.6	0.19	0.051	
75-25-2	Bromoform	ND	0.85	0.13	ND	0.082	0.012	
100-42-5	Styrene	0.13	0.85	0.13	0.031	0.20	0.030	J
95-47-6	o-Xylene	3.5	0.85	0.11	0.80	0.19	0.025	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.025	0.016	
98-82-8	Cumene	0.41	0.85	0.095	0.084	0.17	0.019	J
103-65-1	n-Propylbenzene	0.87	0.85	0.088	0.18	0.17	0.018	
622-96-8	4-Ethyltoluene	1.0	0.85	0.096	0.20	0.17	0.020	
108-67-8	1,3,5-Trimethylbenzene	2.0	0.85	0.10	0.40	0.17	0.021	
98-83-9	alpha-Methylstyrene	ND	0.85	0.12	ND	0.17	0.026	
95-63-6	1,2,4-Trimethylbenzene	3.2	0.85	0.12	0.66	0.17	0.024	
100-44-7	Benzyl Chloride	ND	0.17	0.15	ND	0.033	0.028	
541-73-1	1,3-Dichlorobenzene	0.24	0.17	0.10	0.040	0.028	0.017	
106-46-7	1,4-Dichlorobenzene	0.75	0.17	0.095	0.13	0.028	0.016	
135-98-8	sec-Butylbenzene	0.23	0.85	0.098	0.042	0.15	0.018	J
99-87-6	4-Isopropyltoluene (p-Cymene)	0.56	0.85	0.11	0.10	0.15	0.020	J
95-50-1	1,2-Dichlorobenzene	3.7	0.17	0.11	0.62	0.028	0.019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.85	0.13	ND	0.087	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	0.13	ND	0.023	0.017	
91-20-3	Naphthalene	0.87	0.34	0.13	0.17	0.065	0.024	
87-68-3	Hexachlorobutadiene	ND	0.17	0.15	ND	0.016	0.014	
98-06-6	tert-Butylbenzene	ND	0.34	0.085	ND	0.062	0.015	
104-51-8	n-Butylbenzene	0.50	0.34	0.085	0.092	0.062	0.015	M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG17B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-029

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00720

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.82	0.082	0.46	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.082	ND	0.079	0.039	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.098	0.82	0.082	0.014	0.12	0.012	J
75-01-4	Vinyl Chloride	ND	0.16	0.082	ND	0.064	0.032	
74-83-9	Bromomethane	ND	0.16	0.082	ND	0.042	0.021	
75-00-3	Chloroethane	3.8	0.16	0.082	1.4	0.062	0.031	
64-17-5	Ethanol	7.3	8.2	0.082	3.9	4.3	0.043	J
67-64-1	Acetone	19	8.2	0.12	7.9	3.4	0.050	B
75-69-4	Trichlorofluoromethane	1.0	0.16	0.082	0.18	0.029	0.015	
107-13-1	Acrylonitrile	0.15	0.82	0.11	0.068	0.38	0.053	J
75-35-4	1,1-Dichloroethene	ND	0.16	0.082	ND	0.041	0.021	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.62	0.82	0.12	0.21	0.27	0.040	J
75-09-2	Methylene Chloride	1.8	0.82	0.082	0.51	0.23	0.023	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.082	ND	0.052	0.026	
76-13-1	Trichlorotrifluoroethane	0.46	0.16	0.091	0.060	0.021	0.012	
75-15-0	Carbon Disulfide	13	0.82	0.20	4.3	0.26	0.063	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.082	ND	0.041	0.021	
75-34-3	1,1-Dichloroethane	2.6	0.16	0.082	0.65	0.040	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.082	ND	0.045	0.023	
108-05-4	Vinyl Acetate	5.1	8.2	0.26	1.5	2.3	0.074	J
78-93-3	2-Butanone (MEK)	5.5	0.82	0.082	1.8	0.28	0.028	B
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.082	ND	0.041	0.021	
108-20-3	Diisopropyl Ether	ND	0.82	0.096	ND	0.20	0.023	
67-66-3	Chloroform	180	0.16	0.096	36	0.033	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG17B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-029

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00720

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.82	0.083	ND	0.20	0.020	
107-06-2	1,2-Dichloroethane	2.3	0.16	0.082	0.56	0.040	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.082	ND	0.030	0.015	
71-43-2	Benzene	1.6	0.16	0.082	0.49	0.051	0.026	
56-23-5	Carbon Tetrachloride	0.28	0.16	0.082	0.044	0.026	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.82	0.082	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	ND	0.16	0.082	ND	0.035	0.018	
75-27-4	Bromodichloromethane	ND	0.16	0.082	ND	0.024	0.012	
79-01-6	Trichloroethene	0.30	0.16	0.082	0.056	0.030	0.015	
123-91-1	1,4-Dioxane	0.51	0.82	0.099	0.14	0.23	0.028	J
80-62-6	Methyl Methacrylate	ND	0.82	0.12	ND	0.20	0.030	
142-82-5	n-Heptane	0.51	0.82	0.10	0.12	0.20	0.025	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.82	0.085	ND	0.18	0.019	
108-10-1	4-Methyl-2-pentanone	0.37	0.82	0.091	0.089	0.20	0.022	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.82	0.10	ND	0.18	0.023	
79-00-5	1,1,2-Trichloroethane	1.2	0.16	0.082	0.22	0.030	0.015	
108-88-3	Toluene	2.2	0.82	0.082	0.59	0.22	0.022	
591-78-6	2-Hexanone	0.83	0.82	0.12	0.20	0.20	0.030	
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.088	ND	0.021	0.011	
111-65-9	n-Octane	0.36	0.82	0.082	0.077	0.17	0.017	J
127-18-4	Tetrachloroethene	7.5	0.16	0.082	1.1	0.024	0.012	
108-90-7	Chlorobenzene	0.11	0.16	0.083	0.023	0.035	0.018	J

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Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG17B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-029

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00720

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.16	0.82	0.10	0.036	0.19	0.023	J
179601-23-1	m,p-Xylenes	0.69	0.82	0.21	0.16	0.19	0.049	J
75-25-2	Bromoform	ND	0.82	0.12	ND	0.079	0.012	
100-42-5	Styrene	0.46	0.82	0.12	0.11	0.19	0.029	J
95-47-6	o-Xylene	0.27	0.82	0.10	0.063	0.19	0.024	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.024	0.015	
98-82-8	Cumene	ND	0.82	0.091	ND	0.17	0.019	
103-65-1	n-Propylbenzene	0.088	0.82	0.085	0.018	0.17	0.017	J
622-96-8	4-Ethyltoluene	0.11	0.82	0.093	0.022	0.17	0.019	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.82	0.098	ND	0.17	0.020	
98-83-9	alpha-Methylstyrene	0.19	0.82	0.12	0.039	0.17	0.025	J
95-63-6	1,2,4-Trimethylbenzene	0.35	0.82	0.11	0.072	0.17	0.023	J
100-44-7	Benzyl Chloride	ND	0.16	0.14	ND	0.031	0.027	
541-73-1	1,3-Dichlorobenzene	0.14	0.16	0.10	0.023	0.027	0.017	J
106-46-7	1,4-Dichlorobenzene	0.52	0.16	0.091	0.086	0.027	0.015	
135-98-8	sec-Butylbenzene	ND	0.82	0.095	ND	0.15	0.017	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.19	0.82	0.11	0.035	0.15	0.019	J
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.11	ND	0.027	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.82	0.12	ND	0.084	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	0.12	ND	0.022	0.017	
91-20-3	Naphthalene	0.92	0.33	0.12	0.18	0.062	0.023	
87-68-3	Hexachlorobutadiene	0.26	0.16	0.15	0.024	0.015	0.014	
98-06-6	tert-Butylbenzene	ND	0.33	0.082	ND	0.059	0.015	
104-51-8	n-Butylbenzene	0.22	0.33	0.082	0.041	0.059	0.015	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG18B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
CAS Sample ID: P0801483-030

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00441

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -3.2 **Final Pressure (psig):** 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.79	0.079	0.42	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.079	ND	0.077	0.038	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.095	0.79	0.079	0.014	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.16	0.079	ND	0.062	0.031	
74-83-9	Bromomethane	ND	0.16	0.079	ND	0.041	0.020	
75-00-3	Chloroethane	0.41	0.16	0.079	0.15	0.060	0.030	
64-17-5	Ethanol	5.6	7.9	0.079	2.9	4.2	0.042	J
67-64-1	Acetone	13	7.9	0.12	5.5	3.3	0.049	B
75-69-4	Trichlorofluoromethane	1.1	0.16	0.079	0.19	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.79	0.11	ND	0.36	0.051	
75-35-4	1,1-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.36	0.79	0.12	0.12	0.26	0.039	J
75-09-2	Methylene Chloride	0.94	0.79	0.079	0.27	0.23	0.023	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.079	ND	0.050	0.025	
76-13-1	Trichlorotrifluoroethane	0.46	0.16	0.088	0.061	0.021	0.012	
75-15-0	Carbon Disulfide	7.3	0.79	0.19	2.4	0.25	0.061	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
75-34-3	1,1-Dichloroethane	0.68	0.16	0.079	0.17	0.039	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.079	ND	0.044	0.022	
108-05-4	Vinyl Acetate	3.8	7.9	0.25	1.1	2.2	0.072	J
78-93-3	2-Butanone (MEK)	4.0	0.79	0.079	1.4	0.27	0.027	B
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
108-20-3	Diisopropyl Ether	ND	0.79	0.093	ND	0.19	0.022	
67-66-3	Chloroform	1,800	0.16	0.093	370	0.032	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG18B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-030

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00441

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.79	0.081	ND	0.19	0.019	
107-06-2	1,2-Dichloroethane	0.15	0.16	0.079	0.037	0.039	0.020	J
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.079	ND	0.029	0.014	
71-43-2	Benzene	1.9	0.16	0.079	0.60	0.049	0.025	
56-23-5	Carbon Tetrachloride	110	0.16	0.079	17	0.025	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.79	0.079	ND	0.19	0.019	
78-87-5	1,2-Dichloropropane	0.36	0.16	0.079	0.079	0.034	0.017	
75-27-4	Bromodichloromethane	0.36	0.16	0.079	0.054	0.024	0.012	
79-01-6	Trichloroethene	0.69	0.16	0.079	0.13	0.029	0.015	
123-91-1	1,4-Dioxane	ND	0.79	0.096	ND	0.22	0.027	
80-62-6	Methyl Methacrylate	ND	0.79	0.12	ND	0.19	0.029	
142-82-5	n-Heptane	0.21	0.79	0.10	0.051	0.19	0.025	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.082	ND	0.17	0.018	
108-10-1	4-Methyl-2-pentanone	0.34	0.79	0.088	0.083	0.19	0.022	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.10	ND	0.17	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.079	ND	0.029	0.014	
108-88-3	Toluene	1.1	0.79	0.079	0.29	0.21	0.021	
591-78-6	2-Hexanone	0.76	0.79	0.12	0.19	0.19	0.029	J
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.085	ND	0.021	0.011	
111-65-9	n-Octane	ND	0.79	0.079	ND	0.17	0.017	
127-18-4	Tetrachloroethene	53	0.16	0.079	7.7	0.023	0.012	
108-90-7	Chlorobenzene	ND	0.16	0.081	ND	0.034	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG18B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-030

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00441

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.13	0.79	0.098	0.031	0.18	0.023	J
179601-23-1	m,p-Xylenes	0.60	0.79	0.21	0.14	0.18	0.047	J
75-25-2	Bromoform	ND	0.79	0.12	ND	0.076	0.012	
100-42-5	Styrene	0.35	0.79	0.12	0.082	0.19	0.028	J
95-47-6	o-Xylene	0.64	0.79	0.10	0.15	0.18	0.023	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	Cumene	ND	0.79	0.088	ND	0.16	0.018	
103-65-1	n-Propylbenzene	0.69	0.79	0.082	0.14	0.16	0.017	J
622-96-8	4-Ethyltoluene	1.9	0.79	0.090	0.38	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	3.3	0.79	0.095	0.67	0.16	0.019	
98-83-9	alpha-Methylstyrene	0.30	0.79	0.12	0.062	0.16	0.024	J
95-63-6	1,2,4-Trimethylbenzene	13	0.79	0.11	2.6	0.16	0.022	
100-44-7	Benzyl Chloride	ND	0.16	0.14	ND	0.031	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.098	ND	0.026	0.016	
106-46-7	1,4-Dichlorobenzene	0.83	0.16	0.088	0.14	0.026	0.015	
135-98-8	sec-Butylbenzene	0.24	0.79	0.092	0.044	0.14	0.017	J
99-87-6	4-Isopropyltoluene (p-Cymene)	0.62	0.79	0.10	0.11	0.14	0.019	J
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.10	ND	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	0.12	ND	0.082	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	0.12	ND	0.021	0.016	
91-20-3	Naphthalene	18	0.32	0.12	3.4	0.060	0.022	
87-68-3	Hexachlorobutadiene	1.4	0.16	0.14	0.13	0.015	0.013	
98-06-6	tert-Butylbenzene	ND	0.32	0.079	ND	0.058	0.014	
104-51-8	n-Butylbenzene	2.4	0.32	0.079	0.44	0.058	0.014	M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By:

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/23/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.050	ND	0.10	0.010	
74-87-3	Chloromethane	ND	0.10	0.050	ND	0.048	0.024	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.050	ND	0.072	0.0072	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ND	0.039	0.020	
74-83-9	Bromomethane	ND	0.10	0.050	ND	0.026	0.013	
75-00-3	Chloroethane	ND	0.10	0.050	ND	0.038	0.019	
64-17-5	Ethanol	0.12	5.0	0.050	0.063	2.7	0.027	J
67-64-1	Acetone	0.36	5.0	0.073	0.15	2.1	0.031	J
75-69-4	Trichlorofluoromethane	ND	0.10	0.050	ND	0.018	0.0089	
107-13-1	Acrylonitrile	ND	0.50	0.070	ND	0.23	0.032	
75-35-4	1,1-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	0.50	0.074	ND	0.17	0.024	
75-09-2	Methylene Chloride	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	
78-93-3	2-Butanone (MEK)	ND	0.50	0.050	ND	0.17	0.017	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/23/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.50	0.051	ND	0.12	0.012	
107-06-2	1,2-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
71-43-2	Benzene	ND	0.10	0.050	ND	0.031	0.016	
56-23-5	Carbon Tetrachloride	ND	0.10	0.050	ND	0.016	0.0080	
994-05-8	tert-Amyl Methyl Ether	ND	0.50	0.050	ND	0.12	0.012	
78-87-5	1,2-Dichloropropane	ND	0.10	0.050	ND	0.022	0.011	
75-27-4	Bromodichloromethane	ND	0.10	0.050	ND	0.015	0.0075	
79-01-6	Trichloroethene	ND	0.10	0.050	ND	0.019	0.0093	
123-91-1	1,4-Dioxane	ND	0.50	0.061	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	0.50	0.075	ND	0.12	0.018	
142-82-5	n-Heptane	ND	0.50	0.064	ND	0.12	0.016	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.052	ND	0.11	0.011	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.056	ND	0.12	0.014	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.063	ND	0.11	0.014	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
108-88-3	Toluene	ND	0.50	0.050	ND	0.13	0.013	
591-78-6	2-Hexanone	ND	0.50	0.076	ND	0.12	0.019	
124-48-1	Dibromochloromethane	ND	0.10	0.068	ND	0.012	0.0080	
106-93-4	1,2-Dibromoethane	ND	0.10	0.054	ND	0.013	0.0070	
111-65-9	n-Octane	ND	0.50	0.050	ND	0.11	0.011	
127-18-4	Tetrachloroethene	ND	0.10	0.050	ND	0.015	0.0074	
108-90-7	Chlorobenzene	ND	0.10	0.051	ND	0.022	0.011	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CM Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/23/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	ND	0.50	0.063	ND	0.12	0.015	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.064	ND	0.015	0.0093	
98-82-8	Cumene	ND	0.50	0.056	ND	0.10	0.011	
103-65-1	n-Propylbenzene	ND	0.50	0.052	ND	0.10	0.011	
622-96-8	4-Ethyltoluene	ND	0.50	0.057	ND	0.10	0.012	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.060	ND	0.10	0.012	
98-83-9	alpha-Methylstyrene	ND	0.50	0.073	ND	0.10	0.015	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.069	ND	0.10	0.014	
100-44-7	Benzyl Chloride	ND	0.10	0.086	ND	0.019	0.017	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.062	ND	0.017	0.010	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.056	ND	0.017	0.0093	
135-98-8	sec-Butylbenzene	ND	0.50	0.058	ND	0.091	0.011	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.50	0.065	ND	0.091	0.012	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.066	ND	0.017	0.011	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.076	ND	0.052	0.0079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	
91-20-3	Naphthalene	0.082	0.20	0.074	0.016	0.038	0.014	J
87-68-3	Hexachlorobutadiene	ND	0.10	0.090	ND	0.0094	0.0084	
98-06-6	tert-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	
104-51-8	n-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080526-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/26/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.050	ND	0.10	0.010	
74-87-3	Chloromethane	ND	0.10	0.050	ND	0.048	0.024	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.050	ND	0.072	0.0072	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ND	0.039	0.020	
74-83-9	Bromomethane	ND	0.10	0.050	ND	0.026	0.013	
75-00-3	Chloroethane	ND	0.10	0.050	ND	0.038	0.019	
64-17-5	Ethanol	ND	5.0	0.050	ND	2.7	0.027	
67-64-1	Acetone	0.33	5.0	0.073	0.14	2.1	0.031	J
75-69-4	Trichlorofluoromethane	ND	0.10	0.050	ND	0.018	0.0089	
107-13-1	Acrylonitrile	ND	0.50	0.070	ND	0.23	0.032	
75-35-4	1,1-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	0.50	0.074	ND	0.17	0.024	
75-09-2	Methylene Chloride	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	
78-93-3	2-Butanone (MEK)	ND	0.50	0.050	ND	0.17	0.017	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: LA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080526-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/26/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.50	0.051	ND	0.12	0.012	
107-06-2	1,2-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
71-43-2	Benzene	ND	0.10	0.050	ND	0.031	0.016	
56-23-5	Carbon Tetrachloride	ND	0.10	0.050	ND	0.016	0.0080	
994-05-8	tert-Amyl Methyl Ether	ND	0.50	0.050	ND	0.12	0.012	
78-87-5	1,2-Dichloropropane	ND	0.10	0.050	ND	0.022	0.011	
75-27-4	Bromodichloromethane	ND	0.10	0.050	ND	0.015	0.0075	
79-01-6	Trichloroethene	ND	0.10	0.050	ND	0.019	0.0093	
123-91-1	1,4-Dioxane	ND	0.50	0.061	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	0.50	0.075	ND	0.12	0.018	
142-82-5	n-Heptane	ND	0.50	0.064	ND	0.12	0.016	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.052	ND	0.11	0.011	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.056	ND	0.12	0.014	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.063	ND	0.11	0.014	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
108-88-3	Toluene	ND	0.50	0.050	ND	0.13	0.013	
591-78-6	2-Hexanone	ND	0.50	0.076	ND	0.12	0.019	
124-48-1	Dibromochloromethane	ND	0.10	0.068	ND	0.012	0.0080	
106-93-4	1,2-Dibromoethane	ND	0.10	0.054	ND	0.013	0.0070	
111-65-9	n-Octane	ND	0.50	0.050	ND	0.11	0.011	
127-18-4	Tetrachloroethene	ND	0.10	0.050	ND	0.015	0.0074	
108-90-7	Chlorobenzene	ND	0.10	0.051	ND	0.022	0.011	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080526-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/26/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	ND	0.50	0.063	ND	0.12	0.015	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.064	ND	0.015	0.0093	
98-82-8	Cumene	ND	0.50	0.056	ND	0.10	0.011	
103-65-1	n-Propylbenzene	ND	0.50	0.052	ND	0.10	0.011	
622-96-8	4-Ethyltoluene	ND	0.50	0.057	ND	0.10	0.012	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.060	ND	0.10	0.012	
98-83-9	alpha-Methylstyrene	ND	0.50	0.073	ND	0.10	0.015	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.069	ND	0.10	0.014	
100-44-7	Benzyl Chloride	ND	0.10	0.086	ND	0.019	0.017	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.062	ND	0.017	0.010	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.056	ND	0.017	0.0093	
135-98-8	sec-Butylbenzene	ND	0.50	0.058	ND	0.091	0.011	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.50	0.065	ND	0.091	0.012	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.066	ND	0.017	0.011	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.076	ND	0.052	0.0079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	
91-20-3	Naphthalene	ND	0.20	0.074	ND	0.038	0.014	
87-68-3	Hexachlorobutadiene	ND	0.10	0.090	ND	0.0094	0.0084	
98-06-6	tert-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	
104-51-8	n-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.050	ND	0.10	0.010	
74-87-3	Chloromethane	ND	0.10	0.050	ND	0.048	0.024	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.050	ND	0.072	0.0072	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ND	0.039	0.020	
74-83-9	Bromomethane	ND	0.10	0.050	ND	0.026	0.013	
75-00-3	Chloroethane	ND	0.10	0.050	ND	0.038	0.019	
64-17-5	Ethanol	1.0	5.0	0.050	0.55	2.7	0.027	J
67-64-1	Acetone	1.8	5.0	0.073	0.74	2.1	0.031	J
75-69-4	Trichlorofluoromethane	ND	0.10	0.050	ND	0.018	0.0089	
107-13-1	Acrylonitrile	ND	0.50	0.070	ND	0.23	0.032	
75-35-4	1,1-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	0.50	0.074	ND	0.17	0.024	
75-09-2	Methylene Chloride	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	0.29	0.50	0.12	0.093	0.16	0.039	J
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	0.40	5.0	0.16	0.11	1.4	0.045	J
78-93-3	2-Butanone (MEK)	0.35	0.50	0.050	0.12	0.17	0.017	J
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	0.095	0.10	0.059	0.019	0.020	0.012	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.50	0.051	ND	0.12	0.012	
107-06-2	1,2-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
71-43-2	Benzene	ND	0.10	0.050	ND	0.031	0.016	
56-23-5	Carbon Tetrachloride	ND	0.10	0.050	ND	0.016	0.0080	
994-05-8	tert-Amyl Methyl Ether	ND	0.50	0.050	ND	0.12	0.012	
78-87-5	1,2-Dichloropropane	ND	0.10	0.050	ND	0.022	0.011	
75-27-4	Bromodichloromethane	ND	0.10	0.050	ND	0.015	0.0075	
79-01-6	Trichloroethene	ND	0.10	0.050	ND	0.019	0.0093	
123-91-1	1,4-Dioxane	ND	0.50	0.061	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	0.50	0.075	ND	0.12	0.018	
142-82-5	n-Heptane	ND	0.50	0.064	ND	0.12	0.016	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.052	ND	0.11	0.011	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.056	ND	0.12	0.014	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.063	ND	0.11	0.014	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
108-88-3	Toluene	ND	0.50	0.050	ND	0.13	0.013	
591-78-6	2-Hexanone	ND	0.50	0.076	ND	0.12	0.019	
124-48-1	Dibromochloromethane	ND	0.10	0.068	ND	0.012	0.0080	
106-93-4	1,2-Dibromoethane	ND	0.10	0.054	ND	0.013	0.0070	
111-65-9	n-Octane	ND	0.50	0.050	ND	0.11	0.011	
127-18-4	Tetrachloroethene	ND	0.10	0.050	ND	0.015	0.0074	
108-90-7	Chlorobenzene	ND	0.10	0.051	ND	0.022	0.011	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	ND	0.50	0.063	ND	0.12	0.015	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.064	ND	0.015	0.0093	
98-82-8	Cumene	ND	0.50	0.056	ND	0.10	0.011	
103-65-1	n-Propylbenzene	ND	0.50	0.052	ND	0.10	0.011	
622-96-8	4-Ethyltoluene	ND	0.50	0.057	ND	0.10	0.012	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.060	ND	0.10	0.012	
98-83-9	alpha-Methylstyrene	ND	0.50	0.073	ND	0.10	0.015	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.069	ND	0.10	0.014	
100-44-7	Benzyl Chloride	ND	0.10	0.086	ND	0.019	0.017	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.062	ND	0.017	0.010	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.056	ND	0.017	0.0093	
135-98-8	sec-Butylbenzene	ND	0.50	0.058	ND	0.091	0.011	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.50	0.065	ND	0.091	0.012	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.066	ND	0.017	0.011	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.076	ND	0.052	0.0079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	
91-20-3	Naphthalene	ND	0.20	0.074	ND	0.038	0.014	
87-68-3	Hexachlorobutadiene	ND	0.10	0.090	ND	0.0094	0.0084	
98-06-6	tert-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	
104-51-8	n-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: 64 Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080528-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.050	ND	0.10	0.010	
74-87-3	Chloromethane	ND	0.10	0.050	ND	0.048	0.024	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.050	ND	0.072	0.0072	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ND	0.039	0.020	
74-83-9	Bromomethane	ND	0.10	0.050	ND	0.026	0.013	
75-00-3	Chloroethane	ND	0.10	0.050	ND	0.038	0.019	
64-17-5	Ethanol	ND	5.0	0.050	ND	2.7	0.027	
67-64-1	Acetone	0.35	5.0	0.073	0.15	2.1	0.031	J
75-69-4	Trichlorofluoromethane	ND	0.10	0.050	ND	0.018	0.0089	
107-13-1	Acrylonitrile	ND	0.50	0.070	ND	0.23	0.032	
75-35-4	1,1-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	0.50	0.074	ND	0.17	0.024	
75-09-2	Methylene Chloride	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	
78-93-3	2-Butanone (MEK)	0.074	0.50	0.050	0.025	0.17	0.017	J
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080528-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.50	0.051	ND	0.12	0.012	
107-06-2	1,2-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
71-43-2	Benzene	ND	0.10	0.050	ND	0.031	0.016	
56-23-5	Carbon Tetrachloride	ND	0.10	0.050	ND	0.016	0.0080	
994-05-8	tert-Amyl Methyl Ether	ND	0.50	0.050	ND	0.12	0.012	
78-87-5	1,2-Dichloropropane	ND	0.10	0.050	ND	0.022	0.011	
75-27-4	Bromodichloromethane	ND	0.10	0.050	ND	0.015	0.0075	
79-01-6	Trichloroethene	ND	0.10	0.050	ND	0.019	0.0093	
123-91-1	1,4-Dioxane	ND	0.50	0.061	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	0.50	0.075	ND	0.12	0.018	
142-82-5	n-Heptane	ND	0.50	0.064	ND	0.12	0.016	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.052	ND	0.11	0.011	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.056	ND	0.12	0.014	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.063	ND	0.11	0.014	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
108-88-3	Toluene	ND	0.50	0.050	ND	0.13	0.013	
591-78-6	2-Hexanone	ND	0.50	0.076	ND	0.12	0.019	
124-48-1	Dibromochloromethane	ND	0.10	0.068	ND	0.012	0.0080	
106-93-4	1,2-Dibromoethane	ND	0.10	0.054	ND	0.013	0.0070	
111-65-9	n-Octane	ND	0.50	0.050	ND	0.11	0.011	
127-18-4	Tetrachloroethene	ND	0.10	0.050	ND	0.015	0.0074	
108-90-7	Chlorobenzene	ND	0.10	0.051	ND	0.022	0.011	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080528-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	ND	0.50	0.063	ND	0.12	0.015	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.064	ND	0.015	0.0093	
98-82-8	Cumene	ND	0.50	0.056	ND	0.10	0.011	
103-65-1	n-Propylbenzene	ND	0.50	0.052	ND	0.10	0.011	
622-96-8	4-Ethyltoluene	ND	0.50	0.057	ND	0.10	0.012	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.060	ND	0.10	0.012	
98-83-9	alpha-Methylstyrene	ND	0.50	0.073	ND	0.10	0.015	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.069	ND	0.10	0.014	
100-44-7	Benzyl Chloride	ND	0.10	0.086	ND	0.019	0.017	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.062	ND	0.017	0.010	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.056	ND	0.017	0.0093	
135-98-8	sec-Butylbenzene	ND	0.50	0.058	ND	0.091	0.011	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.50	0.065	ND	0.091	0.012	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.066	ND	0.017	0.011	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.076	ND	0.052	0.0079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	
91-20-3	Naphthalene	ND	0.20	0.074	ND	0.038	0.014	
87-68-3	Hexachlorobutadiene	ND	0.10	0.090	ND	0.0094	0.0084	
98-06-6	tert-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	
104-51-8	n-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080529-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.050	ND	0.10	0.010	
74-87-3	Chloromethane	ND	0.10	0.050	ND	0.048	0.024	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.050	ND	0.072	0.0072	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ND	0.039	0.020	
74-83-9	Bromomethane	ND	0.10	0.050	ND	0.026	0.013	
75-00-3	Chloroethane	ND	0.10	0.050	ND	0.038	0.019	
64-17-5	Ethanol	ND	5.0	0.050	ND	2.7	0.027	
67-64-1	Acetone	0.54	5.0	0.073	0.23	2.1	0.031	J
75-69-4	Trichlorofluoromethane	ND	0.10	0.050	ND	0.018	0.0089	
107-13-1	Acrylonitrile	ND	0.50	0.070	ND	0.23	0.032	
75-35-4	1,1-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	0.50	0.074	ND	0.17	0.024	
75-09-2	Methylene Chloride	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	
78-93-3	2-Butanone (MEK)	ND	0.50	0.050	ND	0.17	0.017	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080529-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.50	0.051	ND	0.12	0.012	
107-06-2	1,2-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
71-43-2	Benzene	ND	0.10	0.050	ND	0.031	0.016	
56-23-5	Carbon Tetrachloride	ND	0.10	0.050	ND	0.016	0.0080	
994-05-8	tert-Amyl Methyl Ether	ND	0.50	0.050	ND	0.12	0.012	
78-87-5	1,2-Dichloropropane	ND	0.10	0.050	ND	0.022	0.011	
75-27-4	Bromodichloromethane	ND	0.10	0.050	ND	0.015	0.0075	
79-01-6	Trichloroethene	ND	0.10	0.050	ND	0.019	0.0093	
123-91-1	1,4-Dioxane	ND	0.50	0.061	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	0.50	0.075	ND	0.12	0.018	
142-82-5	n-Heptane	ND	0.50	0.064	ND	0.12	0.016	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.052	ND	0.11	0.011	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.056	ND	0.12	0.014	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.063	ND	0.11	0.014	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
108-88-3	Toluene	ND	0.50	0.050	ND	0.13	0.013	
591-78-6	2-Hexanone	ND	0.50	0.076	ND	0.12	0.019	
124-48-1	Dibromochloromethane	ND	0.10	0.068	ND	0.012	0.0080	
106-93-4	1,2-Dibromoethane	ND	0.10	0.054	ND	0.013	0.0070	
111-65-9	n-Octane	ND	0.50	0.050	ND	0.11	0.011	
127-18-4	Tetrachloroethene	ND	0.10	0.050	ND	0.015	0.0074	
108-90-7	Chlorobenzene	ND	0.10	0.051	ND	0.022	0.011	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080529-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	ND	0.50	0.063	ND	0.12	0.015	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.064	ND	0.015	0.0093	
98-82-8	Cumene	ND	0.50	0.056	ND	0.10	0.011	
103-65-1	n-Propylbenzene	ND	0.50	0.052	ND	0.10	0.011	
622-96-8	4-Ethyltoluene	ND	0.50	0.057	ND	0.10	0.012	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.060	ND	0.10	0.012	
98-83-9	alpha-Methylstyrene	ND	0.50	0.073	ND	0.10	0.015	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.069	ND	0.10	0.014	
100-44-7	Benzyl Chloride	ND	0.10	0.086	ND	0.019	0.017	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.062	ND	0.017	0.010	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.056	ND	0.017	0.0093	
135-98-8	sec-Butylbenzene	ND	0.50	0.058	ND	0.091	0.011	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.50	0.065	ND	0.091	0.012	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.066	ND	0.017	0.011	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.076	ND	0.052	0.0079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	
91-20-3	Naphthalene	ND	0.20	0.074	ND	0.038	0.014	
87-68-3	Hexachlorobutadiene	ND	0.10	0.090	ND	0.0094	0.0084	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 2

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 5/15 - 5/18/08
Date(s) Received: 5/20/08
Date(s) Analyzed: 5/23 - 5/29/08

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4		Toluene-d8		Bromofluorobenzene		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
Method Blank	P080523-MB	97	70-130	100	70-130	99	70-130	
Method Blank	P080526-MB	94	70-130	103	70-130	100	70-130	
Method Blank	P080527-MB	96	70-130	103	70-130	102	70-130	
Method Blank	P080528-MB	93	70-130	102	70-130	103	70-130	
Method Blank	P080529-MB	94	70-130	100	70-130	101	70-130	
Lab Control Sample	P080523-LCS	95	70-130	99	70-130	101	70-130	
Lab Control Sample	P080526-LCS	92	70-130	99	70-130	102	70-130	
Lab Control Sample	P080527-LCS	95	70-130	101	70-130	102	70-130	
Lab Control Sample	P080528-LCS	91	70-130	100	70-130	104	70-130	
Lab Control Sample	P080529-LCS	93	70-130	101	70-130	103	70-130	
SG76B-05	P0801483-001	93	70-130	100	70-130	99	70-130	
SG78B-05	P0801483-002	98	70-130	100	70-130	98	70-130	
SG78B-05	P0801483-002DUP	98	70-130	101	70-130	99	70-130	
SG81B-05	P0801483-003	98	70-130	100	70-130	99	70-130	
SG79B-05	P0801483-004	105	70-130	97	70-130	101	70-130	
SG80B-05	P0801483-005	100	70-130	101	70-130	100	70-130	
SG26B-05	P0801483-006	97	70-130	99	70-130	99	70-130	
SG26B-05D	P0801483-007	98	70-130	100	70-130	100	70-130	
SG28B-05D	P0801483-008	94	70-130	99	70-130	99	70-130	
SG22B-05	P0801483-009	96	70-130	98	70-130	100	70-130	
SG86B-05	P0801483-010	96	70-130	101	70-130	99	70-130	

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 2 of 2

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 5/15 - 5/18/08
Date(s) Received: 5/20/08
Date(s) Analyzed: 5/23 - 5/29/08

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4		Toluene-d8		Bromofluorobenzene		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
SG28B-05	P0801483-011	99	70-130	101	70-130	99	70-130	
SG62B-05	P0801483-012	98	70-130	100	70-130	99	70-130	
SG33B-05	P0801483-013	92	70-130	98	70-130	102	70-130	
SG82B-05	P0801483-014	95	70-130	90	70-130	95	70-130	
SG61B-05	P0801483-015	96	70-130	102	70-130	100	70-130	
SG83B-05D	P0801483-016	97	70-130	100	70-130	99	70-130	
SG83B-05	P0801483-017	94	70-130	101	70-130	100	70-130	
SG27B-05	P0801483-018	91	70-130	99	70-130	100	70-130	
SG27B-05	P0801483-018DUP	89	70-130	99	70-130	102	70-130	
SG32B-05	P0801483-019	94	70-130	100	70-130	99	70-130	
SG63B-05	P0801483-020	93	70-130	97	70-130	100	70-130	
SG16B-05	P0801483-021	91	70-130	101	70-130	105	70-130	
SG12B-05	P0801483-022	90	70-130	94	70-130	101	70-130	
SG08B-05	P0801483-023	89	70-130	98	70-130	101	70-130	
SG09B-05	P0801483-024	88	70-130	97	70-130	102	70-130	
SG11B-05	P0801483-025	88	70-130	98	70-130	103	70-130	
SG10B-05	P0801483-026	89	70-130	99	70-130	103	70-130	
SG07B-05	P0801483-027	89	70-130	99	70-130	102	70-130	
SG07B-05D	P0801483-028	92	70-130	99	70-130	103	70-130	
SG17B-05	P0801483-029	92	70-130	98	70-130	103	70-130	
SG18B-05	P0801483-030	90	70-130	99	70-130	102	70-130	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/23/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	20.5	80	69-117	
74-87-3	Chloromethane	24.5	18.5	76	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	22.0	85	58-133	
75-01-4	Vinyl Chloride	24.8	21.3	86	61-127	
74-83-9	Bromomethane	25.0	22.4	90	67-124	
75-00-3	Chloroethane	25.0	22.4	90	69-123	
64-17-5	Ethanol	23.8	18.9	79	56-137	
67-64-1	Acetone	26.8	23.9	89	63-116	
75-69-4	Trichlorofluoromethane	26.3	22.5	86	71-120	
107-13-1	Acrylonitrile	25.5	23.7	93	74-129	
75-35-4	1,1-Dichloroethene	27.8	24.6	88	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	23.6	91	35-141	
75-09-2	Methylene Chloride	27.8	23.0	83	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	29.8	111	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	24.0	86	63-129	
75-15-0	Carbon Disulfide	25.0	21.1	84	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	23.9	90	74-118	
75-34-3	1,1-Dichloroethane	26.8	23.7	88	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	23.5	88	72-119	
108-05-4	Vinyl Acetate	25.3	30.2	119	32-163	
78-93-3	2-Butanone (MEK)	27.0	23.8	88	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	23.5	87	74-117	
108-20-3	Diisopropyl Ether	26.3	22.8	87	70-131	
67-66-3	Chloroform	29.8	26.5	89	72-113	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/23/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
637-92-3	Ethyl tert-Butyl Ether	26.0	23.4	90	74-123	
107-06-2	1,2-Dichloroethane	26.3	22.3	85	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	23.5	88	78-114	
71-43-2	Benzene	27.0	23.5	87	73-111	
56-23-5	Carbon Tetrachloride	26.0	24.2	93	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	23.8	92	81-118	
78-87-5	1,2-Dichloropropane	26.5	23.6	89	78-117	
75-27-4	Bromodichloromethane	27.8	25.5	92	77-120	
79-01-6	Trichloroethene	27.3	22.0	81	80-116	
123-91-1	1,4-Dioxane	27.5	23.9	87	79-122	
80-62-6	Methyl Methacrylate	25.8	24.6	95	79-128	
142-82-5	n-Heptane	26.8	24.1	90	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	23.8	95	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	23.2	84	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	28.0	100	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	23.9	91	80-117	
108-88-3	Toluene	26.5	23.2	88	76-116	
591-78-6	2-Hexanone	26.3	21.9	83	69-131	
124-48-1	Dibromochloromethane	27.0	25.7	95	80-128	
106-93-4	1,2-Dibromoethane	26.3	24.2	92	79-122	
111-65-9	n-Octane	26.0	24.0	92	78-122	
127-18-4	Tetrachloroethene	26.0	22.8	88	77-118	
108-90-7	Chlorobenzene	26.5	23.3	88	78-117	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/23/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	23.6	90	79-116	
179601-23-1	m,p-Xylenes	62.5	56.0	90	80-117	
75-25-2	Bromoform	31.3	31.6	101	77-128	
100-42-5	Styrene	26.3	23.7	90	80-124	
95-47-6	o-Xylene	29.8	26.6	89	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	29.5	99	79-120	
98-82-8	Cumene	27.0	24.4	90	81-119	
103-65-1	n-Propylbenzene	26.3	24.2	92	82-120	
622-96-8	4-Ethyltoluene	26.5	24.4	92	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	23.2	89	80-120	
98-83-9	alpha-Methylstyrene	25.5	21.3	84	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	24.1	93	80-122	
100-44-7	Benzyl Chloride	25.8	29.2	113	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	23.5	92	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	24.2	92	81-119	
135-98-8	sec-Butylbenzene	26.8	24.7	92	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	27.9	97	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	23.8	92	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	27.5	107	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	24.4	94	75-138	
91-20-3	Naphthalene	26.3	23.8	90	76-143	
87-68-3	Hexachlorobutadiene	26.3	24.1	92	72-128	
98-06-6	tert-Butylbenzene	26.3	24.5	93	70-130	
104-51-8	n-Butylbenzene	26.8	24.9	93	70-130	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080526-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/26/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	21.2	83	69-117	
74-87-3	Chloromethane	24.5	21.7	89	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	23.0	88	58-133	
75-01-4	Vinyl Chloride	24.8	22.1	89	61-127	
74-83-9	Bromomethane	25.0	24.1	96	67-124	
75-00-3	Chloroethane	25.0	23.4	94	69-123	
64-17-5	Ethanol	23.8	19.7	83	56-137	
67-64-1	Acetone	26.8	22.6	84	63-116	
75-69-4	Trichlorofluoromethane	26.3	22.6	86	71-120	
107-13-1	Acrylonitrile	25.5	24.1	95	74-129	
75-35-4	1,1-Dichloroethene	27.8	24.8	89	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	23.7	92	35-141	
75-09-2	Methylene Chloride	27.8	23.7	85	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	28.9	108	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	24.5	88	63-129	
75-15-0	Carbon Disulfide	25.0	21.9	88	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	24.2	91	74-118	
75-34-3	1,1-Dichloroethane	26.8	24.0	90	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	23.9	89	72-119	
108-05-4	Vinyl Acetate	25.3	30.2	119	32-163	
78-93-3	2-Butanone (MEK)	27.0	23.9	89	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	23.8	88	74-117	
108-20-3	Diisopropyl Ether	26.3	23.1	88	70-131	
67-66-3	Chloroform	29.8	26.8	90	72-113	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080526-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/26/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
637-92-3	Ethyl tert-Butyl Ether	26.0	23.3	90	74-123	
107-06-2	1,2-Dichloroethane	26.3	22.1	84	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	24.2	90	78-114	
71-43-2	Benzene	27.0	24.2	90	73-111	
56-23-5	Carbon Tetrachloride	26.0	24.9	96	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	24.1	93	81-118	
78-87-5	1,2-Dichloropropane	26.5	23.8	90	78-117	
75-27-4	Bromodichloromethane	27.8	25.8	93	77-120	
79-01-6	Trichloroethene	27.3	23.1	85	80-116	
123-91-1	1,4-Dioxane	27.5	25.4	92	79-122	
80-62-6	Methyl Methacrylate	25.8	25.3	98	79-128	
142-82-5	n-Heptane	26.8	24.7	92	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	24.1	96	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	24.1	88	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	28.6	102	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	24.6	94	80-117	
108-88-3	Toluene	26.5	23.9	90	76-116	
591-78-6	2-Hexanone	26.3	23.6	90	69-131	
124-48-1	Dibromochloromethane	27.0	27.0	100	80-128	
106-93-4	1,2-Dibromoethane	26.3	25.2	96	79-122	
111-65-9	n-Octane	26.0	24.3	93	78-122	
127-18-4	Tetrachloroethene	26.0	24.0	92	77-118	
108-90-7	Chlorobenzene	26.5	24.6	93	78-117	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080526-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/26/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
100-41-4	Ethylbenzene	26.3	24.5	93	79-116	
179601-23-1	m,p-Xylenes	62.5	58.0	93	80-117	
75-25-2	Bromoform	31.3	33.4	107	77-128	
100-42-5	Styrene	26.3	25.2	96	80-124	
95-47-6	o-Xylene	29.8	27.3	92	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	30.0	101	79-120	
98-82-8	Cumene	27.0	25.0	93	81-119	
103-65-1	n-Propylbenzene	26.3	24.6	94	82-120	
622-96-8	4-Ethyltoluene	26.5	25.1	95	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	24.0	92	80-120	
98-83-9	alpha-Methylstyrene	25.5	24.6	96	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	24.7	95	80-122	
100-44-7	Benzyl Chloride	25.8	29.7	115	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	24.3	95	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	25.0	95	81-119	
135-98-8	sec-Butylbenzene	26.8	25.2	94	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	28.6	99	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	24.4	95	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	27.6	107	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	25.3	97	75-138	
91-20-3	Naphthalene	26.3	25.1	95	76-143	
87-68-3	Hexachlorobutadiene	26.3	24.9	95	72-128	
98-06-6	tert-Butylbenzene	26.3	26.7	102	70-130	
104-51-8	n-Butylbenzene	26.8	21.7	81	70-130	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	20.5	80	69-117	
74-87-3	Chloromethane	24.5	20.8	85	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	21.3	82	58-133	
75-01-4	Vinyl Chloride	24.8	20.8	84	61-127	
74-83-9	Bromomethane	25.0	21.8	87	67-124	
75-00-3	Chloroethane	25.0	21.6	86	69-123	
64-17-5	Ethanol	23.8	19.0	80	56-137	
67-64-1	Acetone	26.8	21.7	81	63-116	
75-69-4	Trichlorofluoromethane	26.3	22.0	84	71-120	
107-13-1	Acrylonitrile	25.5	23.5	92	74-129	
75-35-4	1,1-Dichloroethene	27.8	24.1	87	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	23.6	91	35-141	
75-09-2	Methylene Chloride	27.8	22.9	82	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	28.5	106	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	23.5	85	63-129	
75-15-0	Carbon Disulfide	25.0	21.5	86	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	23.7	89	74-118	
75-34-3	1,1-Dichloroethane	26.8	23.4	87	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	23.4	87	72-119	
108-05-4	Vinyl Acetate	25.3	28.3	112	32-163	
78-93-3	2-Butanone (MEK)	27.0	23.4	87	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	23.2	86	74-117	
108-20-3	Diisopropyl Ether	26.3	22.6	86	70-131	
67-66-3	Chloroform	29.8	26.3	88	72-113	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	26.0	23.1	89	74-123	
107-06-2	1,2-Dichloroethane	26.3	22.2	84	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	23.2	87	78-114	
71-43-2	Benzene	27.0	23.5	87	73-111	
56-23-5	Carbon Tetrachloride	26.0	23.9	92	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	23.5	90	81-118	
78-87-5	1,2-Dichloropropane	26.5	23.6	89	78-117	
75-27-4	Bromodichloromethane	27.8	25.6	92	77-120	
79-01-6	Trichloroethene	27.3	22.0	81	80-116	
123-91-1	1,4-Dioxane	27.5	24.5	89	79-122	
80-62-6	Methyl Methacrylate	25.8	24.6	95	79-128	
142-82-5	n-Heptane	26.8	24.1	90	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	23.7	95	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	23.6	86	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	27.6	99	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	23.6	90	80-117	
108-88-3	Toluene	26.5	23.5	89	76-116	
591-78-6	2-Hexanone	26.3	23.3	89	69-131	
124-48-1	Dibromochloromethane	27.0	25.8	96	80-128	
106-93-4	1,2-Dibromoethane	26.3	24.2	92	79-122	
111-65-9	n-Octane	26.0	24.0	92	78-122	
127-18-4	Tetrachloroethene	26.0	23.2	89	77-118	
108-90-7	Chlorobenzene	26.5	23.7	89	78-117	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	23.9	91	79-116	
179601-23-1	m,p-Xylenes	62.5	57.1	91	80-117	
75-25-2	Bromoform	31.3	31.9	102	77-128	
100-42-5	Styrene	26.3	24.6	94	80-124	
95-47-6	o-Xylene	29.8	26.8	90	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	29.9	100	79-120	
98-82-8	Cumene	27.0	24.7	91	81-119	
103-65-1	n-Propylbenzene	26.3	24.6	94	82-120	
622-96-8	4-Ethyltoluene	26.5	25.0	94	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	23.9	92	80-120	
98-83-9	alpha-Methylstyrene	25.5	24.5	96	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	24.8	95	80-122	
100-44-7	Benzyl Chloride	25.8	29.4	114	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	24.0	94	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	24.7	94	81-119	
135-98-8	sec-Butylbenzene	26.8	25.1	94	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	28.7	100	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	24.4	95	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	27.8	108	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	25.2	97	75-138	
91-20-3	Naphthalene	26.3	25.6	97	76-143	
87-68-3	Hexachlorobutadiene	26.3	24.5	93	72-128	
98-06-6	tert-Butylbenzene	26.3	25.1	95	70-130	
104-51-8	n-Butylbenzene	26.8	25.6	96	70-130	

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080528-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	20.7	81	69-117	
74-87-3	Chloromethane	24.5	20.2	82	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	21.0	81	58-133	
75-01-4	Vinyl Chloride	24.8	20.4	82	61-127	
74-83-9	Bromomethane	25.0	22.0	88	67-124	
75-00-3	Chloroethane	25.0	22.0	88	69-123	
64-17-5	Ethanol	23.8	18.5	78	56-137	
67-64-1	Acetone	26.8	21.6	81	63-116	
75-69-4	Trichlorofluoromethane	26.3	21.9	83	71-120	
107-13-1	Acrylonitrile	25.5	23.1	91	74-129	
75-35-4	1,1-Dichloroethene	27.8	24.3	87	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	23.6	91	35-141	
75-09-2	Methylene Chloride	27.8	22.8	82	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	28.4	106	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	24.1	87	63-129	
75-15-0	Carbon Disulfide	25.0	21.6	86	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	23.4	88	74-118	
75-34-3	1,1-Dichloroethane	26.8	23.3	87	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	23.3	87	72-119	
108-05-4	Vinyl Acetate	25.3	30.2	119	32-163	
78-93-3	2-Butanone (MEK)	27.0	23.1	86	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	22.9	85	74-117	
108-20-3	Diisopropyl Ether	26.3	22.3	85	70-131	
67-66-3	Chloroform	29.8	25.8	87	72-113	

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080528-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	26.0	22.9	88	74-123	
107-06-2	1,2-Dichloroethane	26.3	21.4	81	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	23.8	89	78-114	
71-43-2	Benzene	27.0	23.9	89	73-111	
56-23-5	Carbon Tetrachloride	26.0	24.6	95	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	23.9	92	81-118	
78-87-5	1,2-Dichloropropane	26.5	23.5	89	78-117	
75-27-4	Bromodichloromethane	27.8	25.8	93	77-120	
79-01-6	Trichloroethene	27.3	22.7	83	80-116	
123-91-1	1,4-Dioxane	27.5	25.3	92	79-122	
80-62-6	Methyl Methacrylate	25.8	25.2	98	79-128	
142-82-5	n-Heptane	26.8	24.1	90	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	24.1	96	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	23.9	87	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	28.3	101	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	24.3	92	80-117	
108-88-3	Toluene	26.5	23.6	89	76-116	
591-78-6	2-Hexanone	26.3	23.0	87	69-131	
124-48-1	Dibromochloromethane	27.0	26.4	98	80-128	
106-93-4	1,2-Dibromoethane	26.3	24.5	93	79-122	
111-65-9	n-Octane	26.0	23.6	91	78-122	
127-18-4	Tetrachloroethene	26.0	23.7	91	77-118	
108-90-7	Chlorobenzene	26.5	24.0	91	78-117	

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080528-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	24.0	91	79-116	
179601-23-1	m,p-Xylenes	62.5	57.1	91	80-117	
75-25-2	Bromoform	31.3	32.9	105	77-128	
100-42-5	Styrene	26.3	24.6	94	80-124	
95-47-6	o-Xylene	29.8	26.8	90	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	29.7	100	79-120	
98-82-8	Cumene	27.0	24.6	91	81-119	
103-65-1	n-Propylbenzene	26.3	24.3	92	82-120	
622-96-8	4-Ethyltoluene	26.5	24.6	93	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	23.6	91	80-120	
98-83-9	alpha-Methylstyrene	25.5	23.9	94	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	24.3	93	80-122	
100-44-7	Benzyl Chloride	25.8	29.2	113	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	23.8	93	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	24.4	93	81-119	
135-98-8	sec-Butylbenzene	26.8	24.7	92	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	28.1	98	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	23.9	93	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	27.8	108	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	25.2	97	75-138	
91-20-3	Naphthalene	26.3	25.3	96	76-143	
87-68-3	Hexachlorobutadiene	26.3	24.9	95	72-128	
98-06-6	tert-Butylbenzene	26.3	24.5	93	70-130	
104-51-8	n-Butylbenzene	26.8	24.9	93	70-130	

Verified By: CA Date: 6/14/08

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080529-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	20.7	81	69-117	
74-87-3	Chloromethane	24.5	21.4	87	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	22.0	85	58-133	
75-01-4	Vinyl Chloride	24.8	21.3	86	61-127	
74-83-9	Bromomethane	25.0	23.4	94	67-124	
75-00-3	Chloroethane	25.0	23.0	92	69-123	
64-17-5	Ethanol	23.8	20.4	86	56-137	
67-64-1	Acetone	26.8	21.5	80	63-116	
75-69-4	Trichlorofluoromethane	26.3	22.6	86	71-120	
107-13-1	Acrylonitrile	25.5	24.0	94	74-129	
75-35-4	1,1-Dichloroethene	27.8	24.7	89	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	24.3	94	35-141	
75-09-2	Methylene Chloride	27.8	22.6	81	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	28.7	107	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	24.2	87	63-129	
75-15-0	Carbon Disulfide	25.0	21.2	85	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	23.1	87	74-118	
75-34-3	1,1-Dichloroethane	26.8	23.2	87	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	23.1	86	72-119	
108-05-4	Vinyl Acetate	25.3	28.9	114	32-163	
78-93-3	2-Butanone (MEK)	27.0	23.7	88	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	23.0	85	74-117	
108-20-3	Diisopropyl Ether	26.3	22.7	86	70-131	
67-66-3	Chloroform	29.8	26.4	89	72-113	

Verified By: Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080529-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	26.0	23.4	90	74-123	
107-06-2	1,2-Dichloroethane	26.3	22.1	84	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	23.3	87	78-114	
71-43-2	Benzene	27.0	23.7	88	73-111	
56-23-5	Carbon Tetrachloride	26.0	23.9	92	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	24.1	93	81-118	
78-87-5	1,2-Dichloropropane	26.5	23.6	89	78-117	
75-27-4	Bromodichloromethane	27.8	25.2	91	77-120	
79-01-6	Trichloroethene	27.3	22.4	82	80-116	
123-91-1	1,4-Dioxane	27.5	24.8	90	79-122	
80-62-6	Methyl Methacrylate	25.8	24.7	96	79-128	
142-82-5	n-Heptane	26.8	24.2	90	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	23.7	95	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	23.9	87	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	27.7	99	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	23.9	91	80-117	
108-88-3	Toluene	26.5	24.0	91	76-116	
591-78-6	2-Hexanone	26.3	23.4	89	69-131	
124-48-1	Dibromochloromethane	27.0	26.3	97	80-128	
106-93-4	1,2-Dibromoethane	26.3	24.8	94	79-122	
111-65-9	n-Octane	26.0	24.3	93	78-122	
127-18-4	Tetrachloroethene	26.0	23.7	91	77-118	
108-90-7	Chlorobenzene	26.5	24.2	91	78-117	

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080529-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	24.3	92	79-116	
179601-23-1	m,p-Xylenes	62.5	57.3	92	80-117	
75-25-2	Bromoform	31.3	33.0	105	77-128	
100-42-5	Styrene	26.3	25.1	95	80-124	
95-47-6	o-Xylene	29.8	27.1	91	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	29.6	99	79-120	
98-82-8	Cumene	27.0	25.2	93	81-119	
103-65-1	n-Propylbenzene	26.3	24.8	94	82-120	
622-96-8	4-Ethyltoluene	26.5	25.0	94	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	23.9	92	80-120	
98-83-9	alpha-Methylstyrene	25.5	24.9	98	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	24.7	95	80-122	
100-44-7	Benzyl Chloride	25.8	28.9	112	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	23.8	93	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	24.6	94	81-119	
135-98-8	sec-Butylbenzene	26.8	25.0	93	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	28.5	99	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	24.0	93	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	27.0	105	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	24.2	93	75-138	
91-20-3	Naphthalene	26.3	24.6	94	76-143	
87-68-3	Hexachlorobutadiene	26.3	23.6	90	72-128	

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00379

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/26/08
Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

Compound	Sample Result		Duplicate Sample Result		Average µg/m³	% RPD	RPD Limit	Data Qualifier
	µg/m³	ppbV	µg/m³	ppbV				
Dichlorodifluoromethane (CFC 12)	2.24	0.454	2.87	0.581	2.555	25	25	J
Chloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	15.6	8.29	17.0	9.02	16.3	9	25	J, B
Acetone	18.5	7.80	22.9	9.65	20.7	21	25	J, B
Trichlorofluoromethane	ND	ND	ND	ND	-	-	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	4.49	1.13	5.81	1.47	5.15	26	25	D
2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	ND	ND	ND	-	-	25	
Methylene Chloride	10.4	2.98	11.6	3.34	11	11	25	J
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	ND	-	-	25	
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	5.02	1.70	5.97	2.03	5.495	17	25	J
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Diisopropyl Ether	ND	ND	ND	ND	-	-	25	
Chloroform	7,180	1,470	7,210	1,480	7195	0.4	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

D = Duplicate precision not within the specified limits.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00379

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/26/08
Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Ethyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	3.70	1.16	4.62	1.45	4.16	22	25	
Carbon Tetrachloride	7.43	1.18	9.44	1.50	8.435	24	25	
tert-Amyl Methyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	32.8	4.90	43.1	6.44	37.95	27	25	D
Trichloroethene	72.0	13.4	93.9	17.5	82.95	26	25	D
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	3.63	0.964	4.19	1.11	3.91	14	25	J
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	18.9	2.22	25.0	2.94	21.95	28	25	D
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	102	15.1	136	20.0	119	29	25	D
Chlorobenzene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

D = Duplicate precision not within the specified limits.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: 64 Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

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Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002DUP

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00379

Date Collected: 5/15/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08 & 5/26/08
 Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	5.91	1.36	7.89	1.82	6.9	29	25	J, D
Bromoform	25.0	2.42	34.2	3.31	29.6	31	25	D
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	2.90	0.669	3.93	0.904	3.415	30	25	J, D
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
alpha-Methylstyrene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	2.74	0.557	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	3.00	0.500	3.89	0.648	3.445	26	25	J, D
sec-Butylbenzene	ND	ND	ND	ND	-	-	25	
4-Isopropyltoluene (p-Cymene)	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	
tert-Butylbenzene	ND	ND	ND	ND	-	-	25	
n-Butylbenzene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

D = Duplicate precision not within the specified limits; however, results below the method reporting limit are estimated as specified.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: ENSR
Client Sample ID: SG27B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-018DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00931

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.50 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

Compound	Sample Result		Duplicate Sample Result		Average µg/m³	% RPD	RPD Limit	Data Qualifier
	µg/m³	ppbV	µg/m³	ppbV				
Dichlorodifluoromethane (CFC 12)	2.03	0.410	2.02	0.408	2.025	0.5	25	
Chloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	6.33	3.36	6.36	3.38	6.345	0.5	25	J, B
Acetone	14.4	6.08	15.0	6.31	14.7	4	25	J, B
Trichlorofluoromethane	1.10	0.196	1.02	0.182	1.06	8	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	1.65	0.416	1.63	0.412	1.64	1	25	
2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.876	0.289	0.588	0.194	0.732	39	25	J, D
Methylene Chloride	0.206	0.0593	0.186	0.0535	0.196	10	25	J
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.461	0.0602	0.485	0.0633	0.473	5	25	
Carbon Disulfide	0.976	0.314	0.993	0.319	0.9845	2	25	J, B
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	0.229	0.0566	0.219	0.0542	0.224	4	25	J
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	5.97	1.70	5.88	1.67	5.925	2	25	J, B
2-Butanone (MEK)	5.05	1.71	5.08	1.72	5.065	0.6	25	B
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Diisopropyl Ether	ND	ND	ND	ND	-	-	25	
Chloroform	944	193	944	193	944	0	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

D = Duplicate precision not within the specified limits; however, the results are below the method reporting limit and estimated as specified.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: ENSR
Client Sample ID: SG27B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-018DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00931

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.50 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Ethyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	2.20	0.688	2.21	0.693	2.205	0.5	25	
Carbon Tetrachloride	9.72	1.55	9.59	1.53	9.655	1	25	
tert-Amyl Methyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	0.216	0.0467	0.196	0.0424	0.206	10	25	J
Bromodichloromethane	0.647	0.0967	0.657	0.0982	0.652	2	25	
Trichloroethene	0.734	0.137	0.784	0.146	0.759	7	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	0.199	0.0486	0.292	0.0713	0.2455	38	25	J, D
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	2.74	0.727	2.75	0.731	2.745	0.4	25	
2-Hexanone	0.538	0.131	0.501	0.122	0.5195	7	25	J
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	6.41	0.946	6.52	0.961	6.465	2	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

D = Duplicate precision not within the specified limits; however the results below the method reporting limit are estimated as specified.

Verified By: CA

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: ENSR
Client Sample ID: SG27B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-018DUP

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00931

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27 - 5/28/08
 Volume(s) Analyzed: 0.50 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	0.488	0.112	0.471	0.109	0.4795	4	25	J
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	0.256	0.0589	0.209	0.0482	0.2325	20	25	J
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
alpha-Methylstyrene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	0.432	0.0878	0.425	0.0865	0.4285	2	25	J
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	12.5	2.08	12.4	2.06	12.45	0.8	25	
sec-Butylbenzene	ND	ND	ND	ND	-	-	25	
4-Isopropyltoluene (p-Cymene)	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	2.32	0.443	2.25	0.430	2.285	3	25	
Hexachlorobutadiene	2.67	0.250	2.71	0.254	2.69	1	25	
tert-Butylbenzene	ND	ND	ND	ND	-	-	25	
n-Butylbenzene	0.183	0.0333	0.222	0.0405	0.2025	19	25	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Lab File ID: 05230801.D
 Date Analyzed: 5/23/2008
 Time Analyzed: 08:26

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	507961	12.59	2149451	15.52	1005118	21.35
Upper Limit	711145	12.92	3009231	15.85	1407165	21.68
Lower Limit	304777	12.26	1289671	15.19	603071	21.02

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
		AREA #	RT #	AREA #
01	Method Blank	501092	12.58	2131510
02	Lab Control Sample	505476	12.59	2137808
03	SG76B-05	544273	12.58	2295502
04	SG78B-05	530786	12.58	2293187
05	SG78B-05 (Lab Duplicate)	524459	12.58	2224929
06	SG81B-05	461344	12.58	1986639
07	SG79B-05	390666	12.58	1900726
08	SG80B-05	455877	12.58	2060083
09	SG26B-05	458203	12.58	1987985
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
 AREA LOWER LIMIT = 60% of internal standard area
 RT UPPER LIMIT = 0.33 minutes of internal standard RT
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

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

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Lab File ID: 05260801.D
 Date Analyzed: 5/26/2008
 Time Analyzed: 09:27

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	547571	12.59	2313827	15.52	1052805	21.35
Upper Limit	766599	12.92	3239358	15.85	1473927	21.68
Lower Limit	328543	12.26	1388296	15.19	631683	21.02

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
Client Sample ID	Description	AREA #	RT #	AREA #
01	Method Blank	514960	12.58	2207660
02	Lab Control Sample	540353	12.58	2242155
03	SG61B-05	494589	12.58	2116782
04	SG78B-05 (Dilution)	493460	12.58	2115084
05	SG78B-05 (Lab Duplicate - Dilution)	481030	12.58	2083930
06	SG81B-05 (Dilution)	474371	12.58	2060003
07	SG80B-05 (Dilution)	470350	12.58	2015265
08	SG26B-05 (Dilution)	461165	12.58	1984701
09	SG26B-05D	432519	12.58	1890721
10	SG26B-05D (Dilution)	452319	12.58	1975820
11	SG28B-05D	434582	12.58	1840194
12	SG28B-05D (Dilution)	446839	12.58	1934163
13	SG22B-05	435098	12.58	1879188
14	SG86B-05	447794	12.58	1909931
15	SG86B-05 (Dilution)	459021	12.58	1987046
16	SG28B-05	447700	12.58	1942165
17	SG62B-05	449032	12.58	1922962
18	SG76B-05 (Dilution)	448384	12.57	1916566
19				
20				

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
 AREA LOWER LIMIT = 60% of internal standard area
 RT UPPER LIMIT = 0.33 minutes of internal standard RT
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Lab File ID: 05270801.D
 Date Analyzed: 5/27/2008
 Time Analyzed: 07:30

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	452637	12.59	1917052	15.52	909333	21.35
Upper Limit	633692	12.92	2683873	15.85	1273066	21.68
Lower Limit	271582	12.26	1150231	15.19	545600	21.02

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
Client Sample ID	Description	AREA #	RT #	AREA #
01	Method Blank	436763	12.58	1861684
02	Lab Control Sample	443735	12.59	1884243
03	SG22B-05 (Dilution)	524387	12.58	2253280
04	SG62B-05 (Dilution)	499212	12.58	2099195
05	SG61B-05 (Dilution)	480054	12.58	2046521
06	SG83B-05D	463175	12.58	1975601
07	SG83B-05D (Dilution)	457316	12.58	1922557
08	SG82B-05	458314	12.58	1954879
09	SG82B-05 (Dilution)	493378	12.58	2089356
10	SG63B-05	476389	12.58	1976297
11	SG27B-05	514732	12.58	2168190
12	SG16B-05	528439	12.58	2230556
13	SG12B-05	548178	12.58	2341654
14	SG08B-05	568180	12.58	2384709
15	SG09B-05	569671	12.59	2383351
16	SG11B-05	572443	12.58	2406322
17	SG10B-05	570758	12.58	2408496
18	SG27B-05 (Lab Duplicate)	563725	12.58	2340601
19	SG07B-05	554275	12.58	2315124
20				

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
 AREA LOWER LIMIT = 60% of internal standard area
 RT UPPER LIMIT = 0.33 minutes of internal standard RT
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

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

Verified By: CA Date: 6/14/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Lab File ID: 05280801.D
 Date Analyzed: 5/28/2008
 Time Analyzed: 07:18

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	337782	12.58	1418631	15.51	650717	21.35
Upper Limit	472895	12.91	1986083	15.84	911004	21.68
Lower Limit	202669	12.25	851179	15.18	390430	21.02

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	322308	12.58	1361725	15.51	618383	21.35
02	Lab Control Sample	324220	12.59	1332376	15.52	629262	21.35
03	SG83B-05	314404	12.58	1331644	15.51	613875	21.35
04	SG83B-05 (Dilution)	308951	12.57	1297212	15.50	601748	21.35
05	SG32B-05	297813	12.58	1234128	15.51	589313	21.35
06	SG63B-05 (Dilution)	289623	12.58	1225857	15.51	585745	21.35
07	SG12B-05 (Dilution)	296307	12.57	1285386	15.51	598563	21.35
08	SG32B-05 (Dilution)	298012	12.57	1275023	15.51	583916	21.35
09	SG27B-05 (Dilution)	297312	12.58	1262605	15.51	593640	21.35
10	SG27B-05 (Lab Duplicate - Dilution)	298483	12.58	1275076	15.51	589222	21.35
11	SG08B-05 (Dilution)	294588	12.57	1273012	15.51	597369	21.35
12	SG09B-05 (Dilution)	295481	12.57	1259827	15.51	590604	21.35
13	SG11B-05 (Dilution)	295607	12.58	1259270	15.51	588130	21.35
14	SG10B-05 (Dilution)	292578	12.58	1283425	15.51	590099	21.35
15	SG07B-05 (Dilution)	292730	12.58	1251266	15.51	587873	21.35
16	SG07B-05D	304032	12.58	1271664	15.51	610655	21.35
17	SG07B-05D (Dilution)	300693	12.58	1273226	15.51	594738	21.35
18	SG17B-05	306641	12.58	1309030	15.51	617431	21.35
19	SG18B-05	321448	12.59	1328682	15.51	635385	21.35
20	SG33B-05	321929	12.58	1383390	15.51	646785	21.35

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
 AREA LOWER LIMIT = 60% of internal standard area
 RT UPPER LIMIT = 0.33 minutes of internal standard RT
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Lab File ID: 05290802.D
 Date Analyzed: 5/29/2008
 Time Analyzed: 05:09

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	326447	12.59	1381121	15.52	649243	21.35
Upper Limit	457026	12.92	1933569	15.85	908940	21.68
Lower Limit	195868	12.26	828673	15.19	389546	21.02

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
01	Method Blank	308064	12.58	606309
02	SG18B-05 (Dilution)	284810	12.58	578085
03	SG28B-05 (Dilution)	278758	12.58	562185
04	Lab Control Sample	309118	12.59	597618
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
 AREA LOWER LIMIT = 60% of internal standard area
 RT UPPER LIMIT = 0.33 minutes of internal standard RT
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Verified By: *CA* Date: 6/4/08

RESULTS OF HELIUM ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Helium

Test Code: EPA 3C Modified
Instrument ID: HP5890 II/GC8/TCD
Analyst: Zheng Wang/Wade Henton/Chris Cornett
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 5/15 - 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/23 - 5/27/08

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	Result ppmV	MRL ppmV	Data Qualifier
SG76B-05	P0801483-001	1.00	1.57	44	39	
SG78B-05	P0801483-002	1.00	1.65	ND	41	
SG81B-05	P0801483-003	1.00	1.52	ND	38	
SG79B-05	P0801483-004	1.00	1.53	ND	38	
SG80B-05	P0801483-005	1.00	1.58	ND	40	
SG26B-05	P0801483-006	1.00	1.93	ND	48	
SG26B-05D	P0801483-007	1.00	1.94	ND	49	
SG28B-05D	P0801483-008	1.00	1.59	ND	40	
SG22B-05	P0801483-009	1.00	1.58	ND	40	
SG86B-05	P0801483-010	1.00	1.67	83	42	
SG28B-05	P0801483-011	1.00	1.59	ND	40	
SG62B-05	P0801483-012	1.00	1.54	ND	39	
SG33B-05	P0801483-013	1.00	2.22	ND	56	
SG82B-05	P0801483-014	1.00	1.67	ND	42	
SG61B-05	P0801483-015	1.00	1.63	ND	41	
SG83B-05D	P0801483-016	1.00	1.84	ND	46	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Helium

Test Code: EPA 3C Modified
 Instrument ID: HP5890 II/GC8/TCD
 Analyst: Zheng Wang/Wade Henton/Chris Cornett
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 5/15 - 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/23 - 5/27/08

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	Result ppmV	MRL ppmV	Data Qualifier
SG83B-05	P0801483-017	1.00	1.81	ND	45	
SG27B-05	P0801483-018	1.00	1.66	ND	42	
SG32B-05	P0801483-019	1.00	1.63	110	41	
SG63B-05	P0801483-020	1.00	1.60	ND	40	
SG16B-05	P0801483-021	1.00	1.57	ND	39	
SG12B-05	P0801483-022	1.00	1.54	ND	39	
SG08B-05	P0801483-023	1.00	1.49	ND	37	
SG09B-05	P0801483-024	1.00	1.65	ND	41	
SG11B-05	P0801483-025	1.00	1.47	ND	37	
SG10B-05	P0801483-026	1.00	1.55	ND	39	
SG07B-05	P0801483-027	1.00	1.69	ND	42	
SG07B-05D	P0801483-028	1.00	1.69	ND	42	
SG17B-05	P0801483-029	1.00	1.63	2,100	41	
SG18B-05	P0801483-030	1.00	1.58	190	40	
Method Blank	P080523-MB	1.00	1.00	ND	25	
Method Blank	P080527-MB	1.00	1.00	ND	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG76B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00630

Date Collected: 5/15/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08 & 5/27/08
 Volume(s) Analyzed: 0.10 Liter(s)
 0.010 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	3.1	7.9	0.79	0.62	1.6	0.16	J
74-87-3	Chloromethane	ND	1.6	0.79	ND	0.76	0.38	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	7.9	0.79	ND	1.1	0.11	
75-01-4	Vinyl Chloride	ND	1.6	0.79	ND	0.61	0.31	
74-83-9	Bromomethane	ND	1.6	0.79	ND	0.40	0.20	
75-00-3	Chloroethane	ND	1.6	0.79	ND	0.60	0.30	
64-17-5	Ethanol	17	79	0.79	8.9	42	0.42	J, B
67-64-1	Acetone	23	79	1.1	9.5	33	0.48	J, B
75-69-4	Trichlorofluoromethane	1.8	1.6	0.79	0.32	0.28	0.14	
107-13-1	Acrylonitrile	ND	7.9	1.1	ND	3.6	0.51	
75-35-4	1,1-Dichloroethene	50	1.6	0.79	13	0.40	0.20	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	7.9	1.2	ND	2.6	0.38	
75-09-2	Methylene Chloride	2.2	7.9	0.79	0.63	2.3	0.23	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.6	0.79	ND	0.50	0.25	
76-13-1	Trichlorotrifluoroethane	ND	1.6	0.88	ND	0.20	0.11	
75-15-0	Carbon Disulfide	7.1	7.9	1.9	2.3	2.5	0.61	J
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.79	ND	0.40	0.20	
75-34-3	1,1-Dichloroethane	1.1	1.6	0.79	0.27	0.39	0.19	J
1634-04-4	Methyl tert-Butyl Ether	1.0	1.6	0.79	0.29	0.44	0.22	J
108-05-4	Vinyl Acetate	5.1	79	2.5	1.5	22	0.71	J
78-93-3	2-Butanone (MEK)	6.0	7.9	0.79	2.0	2.7	0.27	J
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.79	ND	0.40	0.20	
108-20-3	Diisopropyl Ether	ND	7.9	0.93	ND	1.9	0.22	
67-66-3	Chloroform	8,200	1.6	0.93	1,700	0.32	0.19	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG76B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00630

Date Collected: 5/15/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08 & 5/27/08
 Volume(s) Analyzed: 0.10 Liter(s)
 0.010 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	7.9	0.80	ND	1.9	0.19	
107-06-2	1,2-Dichloroethane	ND	1.6	0.79	ND	0.39	0.19	
71-55-6	1,1,1-Trichloroethane	ND	1.6	0.79	ND	0.29	0.14	
71-43-2	Benzene	3.0	1.6	0.79	0.93	0.49	0.25	
56-23-5	Carbon Tetrachloride	61	1.6	0.79	9.6	0.25	0.12	
994-05-8	tert-Amyl Methyl Ether	ND	7.9	0.79	ND	1.9	0.19	
78-87-5	1,2-Dichloropropane	0.88	1.6	0.79	0.19	0.34	0.17	J
75-27-4	Bromodichloromethane	6.4	1.6	0.79	0.96	0.23	0.12	
79-01-6	Trichloroethene	630	1.6	0.79	120	0.29	0.15	
123-91-1	1,4-Dioxane	ND	7.9	0.96	ND	2.2	0.27	
80-62-6	Methyl Methacrylate	ND	7.9	1.2	ND	1.9	0.29	
142-82-5	n-Heptane	ND	7.9	1.0	ND	1.9	0.25	
10061-01-5	cis-1,3-Dichloropropene	ND	7.9	0.82	ND	1.7	0.18	
108-10-1	4-Methyl-2-pentanone	ND	7.9	0.88	ND	1.9	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	7.9	0.99	ND	1.7	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.79	ND	0.29	0.14	
108-88-3	Toluene	4.0	7.9	0.79	1.1	2.1	0.21	J
591-78-6	2-Hexanone	ND	7.9	1.2	ND	1.9	0.29	
124-48-1	Dibromochloromethane	1.6	1.6	1.1	0.19	0.18	0.13	
106-93-4	1,2-Dibromoethane	ND	1.6	0.85	ND	0.20	0.11	
111-65-9	n-Octane	ND	7.9	0.79	ND	1.7	0.17	
127-18-4	Tetrachloroethene	25	1.6	0.79	3.6	0.23	0.12	
108-90-7	Chlorobenzene	ND	1.6	0.80	ND	0.34	0.17	

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Verified By:

Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG76B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00630

Date Collected: 5/15/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08 & 5/27/08
 Volume(s) Analyzed: 0.10 Liter(s)
 0.010 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	7.9	0.97	ND	1.8	0.22	
179601-23-1	m,p-Xylenes	ND	7.9	2.0	ND	1.8	0.47	
75-25-2	Bromoform	ND	7.9	1.2	ND	0.76	0.12	
100-42-5	Styrene	ND	7.9	1.2	ND	1.8	0.28	
95-47-6	o-Xylene	1.2	7.9	0.99	0.27	1.8	0.23	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	1.0	ND	0.23	0.15	
98-82-8	Cumene	ND	7.9	0.88	ND	1.6	0.18	
103-65-1	n-Propylbenzene	ND	7.9	0.82	ND	1.6	0.17	
622-96-8	4-Ethyltoluene	ND	7.9	0.89	ND	1.6	0.18	
108-67-8	1,3,5-Trimethylbenzene	ND	7.9	0.94	ND	1.6	0.19	
98-83-9	alpha-Methylstyrene	ND	7.9	1.1	ND	1.6	0.24	
95-63-6	1,2,4-Trimethylbenzene	ND	7.9	1.1	ND	1.6	0.22	
100-44-7	Benzyl Chloride	ND	1.6	1.4	ND	0.30	0.26	
541-73-1	1,3-Dichlorobenzene	ND	1.6	0.97	ND	0.26	0.16	
106-46-7	1,4-Dichlorobenzene	1.9	1.6	0.88	0.32	0.26	0.15	
135-98-8	sec-Butylbenzene	ND	7.9	0.91	ND	1.4	0.17	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	7.9	1.0	ND	1.4	0.19	
95-50-1	1,2-Dichlorobenzene	ND	1.6	1.0	ND	0.26	0.17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.9	1.2	ND	0.81	0.12	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	1.2	ND	0.21	0.16	
91-20-3	Naphthalene	1.5	3.1	1.2	0.29	0.60	0.22	J, B
87-68-3	Hexachlorobutadiene	1.8	1.6	1.4	0.17	0.15	0.13	
98-06-6	tert-Butylbenzene	ND	3.1	0.79	ND	0.57	0.14	
104-51-8	n-Butylbenzene	ND	3.1	0.79	ND	0.57	0.14	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

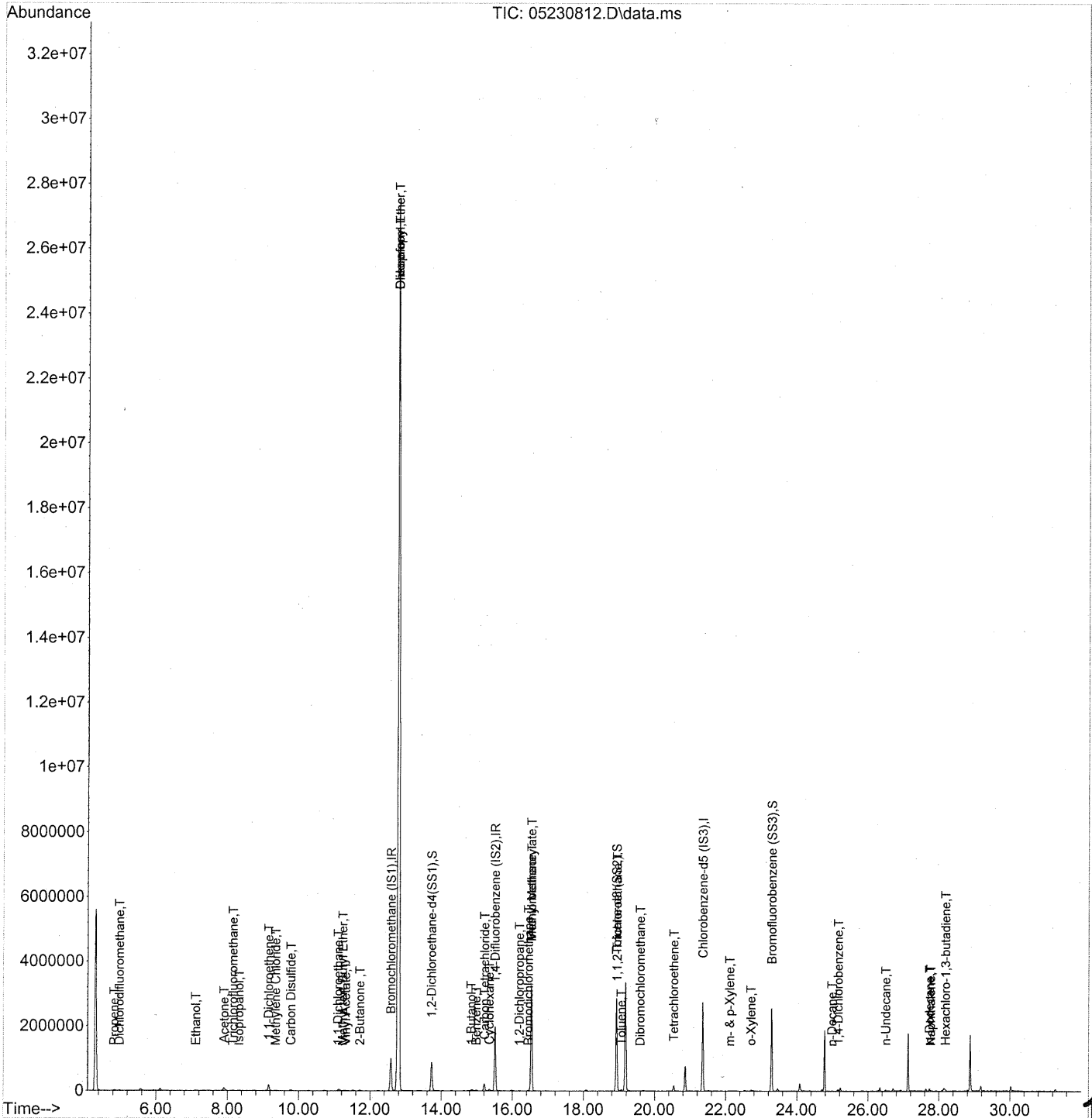
B = Analyte was found in the method blank.

Verified By:

Date: 6/4/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 09:58:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
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 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	544273	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2295502	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1066690	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.73	65	880958	23.360	ng	0.00
Spiked Amount	25.000		Recovery	=	93.44%	
57) Toluene-d8 (SS2)	18.93	98	2390490	24.953	ng	0.00
Spiked Amount	25.000		Recovery	=	99.80%	
73) Bromofluorobenzene (SS3)	23.29	174	969005	24.874	ng	0.00
Spiked Amount	25.000		Recovery	=	99.48%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	7265	0.169	ng	# 36
3) Dichlorodifluoromethane	4.98	85	15546	0.196	ng	97
4) Chloromethane	5.32	50	310	N.D.	✓	
5) Freon 114	5.55	135	188	N.D.	✓	
6) Vinyl Chloride	5.77	62	457	N.D.	✓	
7) 1,3-Butadiene	6.03	54	219	N.D.		
8) Bromomethane	6.52	94	356	N.D.	✓	
9) Chloroethane	6.84	64	53	N.D.	✓	
10) Ethanol	7.11	45	30413m	1.063	ng	
11) Acetonitrile	7.40	41	60	N.D.		
12) Acrolein	7.62	56	61	N.D.		
13) Acetone	7.91	58	42195	1.440	ng	# 60
14) Trichlorofluoromethane	8.16	101	7850	0.115	ng	99
15) Isopropanol	8.33	45	15821	0.169	ng	90
16) Acrylonitrile	8.68	53	78	N.D.	✓	
17) 1,1-Dichloroethene	9.16	96	94551	3.162	ng	# 78
18) tert-Butanol	9.29	59	1718	N.D.	✓	
19) Methylene Chloride	9.36	84	4556	0.139	ng	# 69
20) Allyl Chloride	9.53	41	428	N.D.	✓	
21) Trichlorotrifluoroethane	9.81	151	1511	N.D.	✓	
22) Carbon Disulfide	9.78	76	56396	0.454	ng	95
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
24) 1,1-Dichloroethane	11.10	63	3970	0.070	ng	94
25) Methyl tert-Butyl Ether	11.23	73	6250	0.066	ng	92
26) Vinyl Acetate	11.32	86	1778	0.328	ng	# 63
27) 2-Butanone	11.71	72	8204	0.384	ng	96
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.79	87	4445484	169.654	ng NR	# 1
30) Ethyl Acetate	12.70	61	64	N.D.		
31) n-Hexane	12.69	57	2557	N.D.		

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 09:58:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.79	83	31663492	637.978 ng	<i>see dil</i>	87
34) Tetrahydrofuran	13.41	72	757	N.D.		
35) Ethyl tert-Butyl Ether	13.47	87	71	N.D. ✓		
36) 1,2-Dichloroethane	13.88	62	66	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	800	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.84	56	43312	1.373 ng		90
41) Benzene	14.99	78	22873	0.190 ng		97
42) Carbon Tetrachloride	15.22	117	178594	3.858 ng		100
43) Cyclohexane	15.35	84	2949	0.063 ng	#	1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D. ✓		
45) 1,2-Dichloropropane	16.20	63	1807	0.056 ng	#	74
46) Bromodichloromethane	16.45	83	16588	0.408 ng		98
47) Trichloroethene	16.53	130	1477531	40.073 ng		100
48) 1,4-Dioxane	16.54	88	280	N.D. ✓		
49) Isooctane	16.61	57	6064	N.D.		
50) Methyl Methacrylate	16.53	100	3804	0.317 ng	NR#	1
51) n-Heptane	16.98	71	443	N.D. ✓		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.79	58	123	N.D. ✓		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	209624	7.058 ng	NR #	9
58) Toluene	19.06	91	33145	0.255 ng		95
59) 2-Hexanone	19.37	43	3814	N.D. ✓		
60) Dibromochloromethane	19.59	129	3672	0.104 ng		88
61) 1,2-Dibromoethane	20.28	107	52	N.D. ✓		
62) Butyl Acetate	20.19	43	989	N.D. ✓		
63) n-Octane	20.35	57	315	N.D. ✓		
64) Tetrachloroethene	20.54	166	60322	1.565 ng		99
65) Chlorobenzene	21.40	112	942	N.D. ✓		
66) Ethylbenzene	21.89	91	5123	N.D. ✓		
67) m- & p-Xylene	22.12	91	11072	0.111 ng	<MDL	89
68) Bromoform	22.20	173	61	N.D. ✓		
69) Styrene	22.58	104	731	N.D. ✓		
70) o-Xylene	22.71	91	7969	0.074 ng		99
71) n-Nonane	22.98	43	1339	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.68	83	190	N.D. ✓		
74) Cumene	23.46	105	836	N.D. ✓		
75) alpha-Pinene	23.97	93	418	N.D.		
76) n-Propylbenzene	24.10	91	3425	N.D. ✓		
77) 3-Ethyltoluene	24.23	105	4315	N.D.		
78) 4-Ethyltoluene	24.27	105	4017	N.D. ✓		
79) 1,3,5-Trimethylbenzene	24.36	105	2837	N.D. ✓		

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 09:58:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

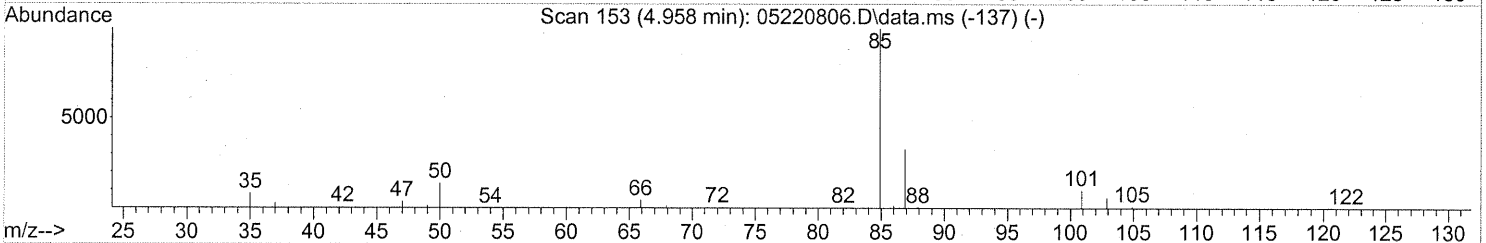
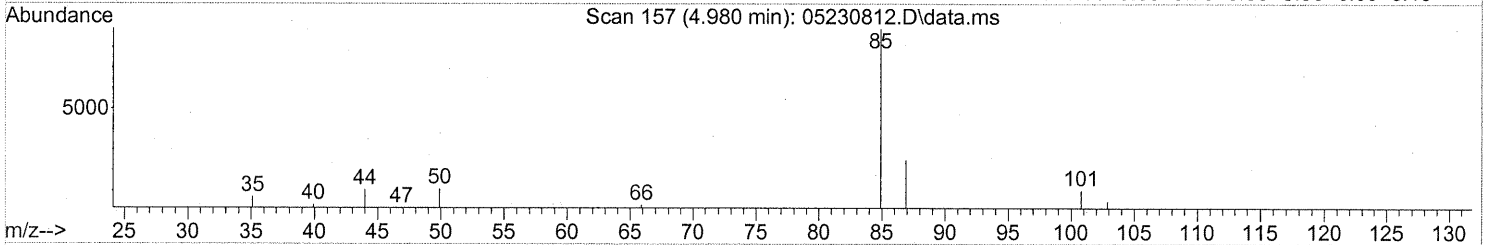
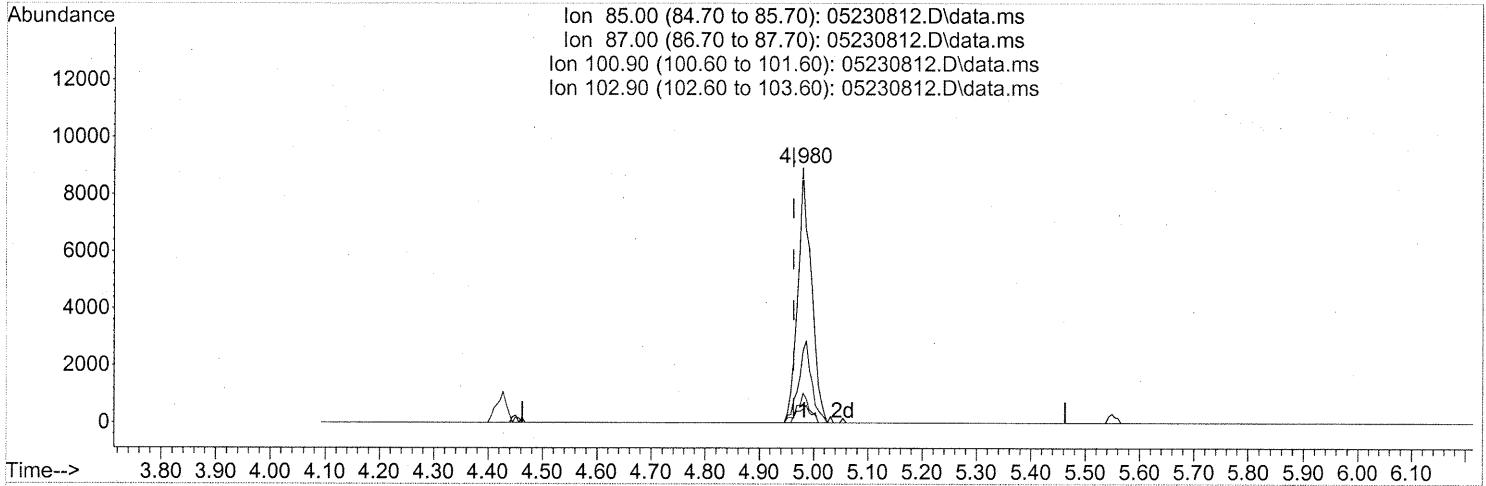
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	586	N.D. ✓	
81) 2-Ethyltoluene	24.61	105	3263	N.D.	
82) 1,2,4-Trimethylbenzene	24.89	105	5798	N.D. ✓	
83) n-Decane	24.99	57	5221	0.072 ng	87
84) Benzyl Chloride	25.05	91	1104	N.D. ✓	
85) 1,3-Dichlorobenzene	25.08	146	1973	N.D. ✓	
86) 1,4-Dichlorobenzene	25.16	146	9764	0.123 ng	99
87) sec-Butylbenzene	25.21	105	676	N.D. ✓	
88) p-Isopropyltoluene	25.39	119	2725	N.D. ✓	
89) 1,2,3-Trimethylbenzene	25.40	105	3628	N.D.	
90) 1,2-Dichlorobenzene	25.58	146	326	N.D. ✓	
91) d-Limonene	25.58	68	1759	N.D.	
92) 1,2-Dibromo-3-Chloropr...	26.25	157	316	N.D. ✓	
93) n-Undecane	26.50	57	12342	0.164 ng	79
94) 1,2,4-Trichlorobenzene	27.62	180	1304	N.D. ✓	
95) Naphthalene	27.77	128	16848	0.097 ng	95
96) n-Dodecane	27.73	57	22642	0.302 ng	76
97) Hexachloro-1,3-butadiene	28.19	225	4310	0.114 ng	97

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(3) Dichlorodifluoromethane (T)

4.980min (+0.017) 0.20ng

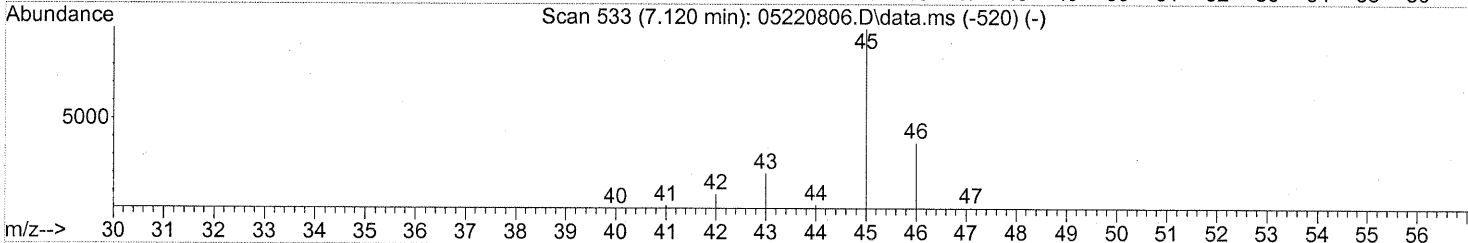
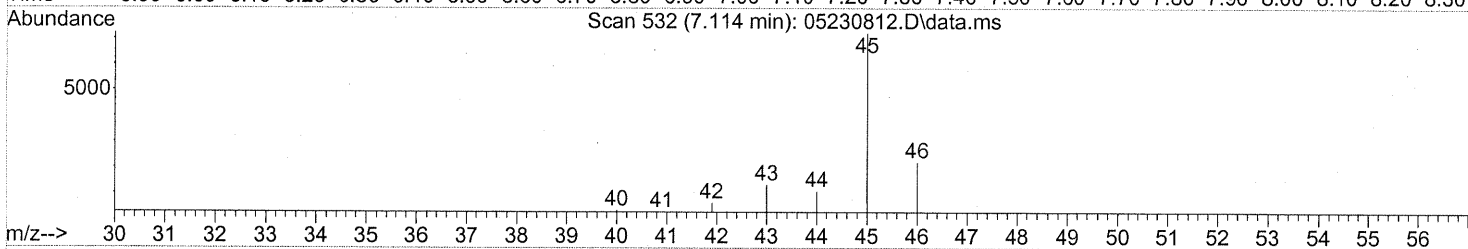
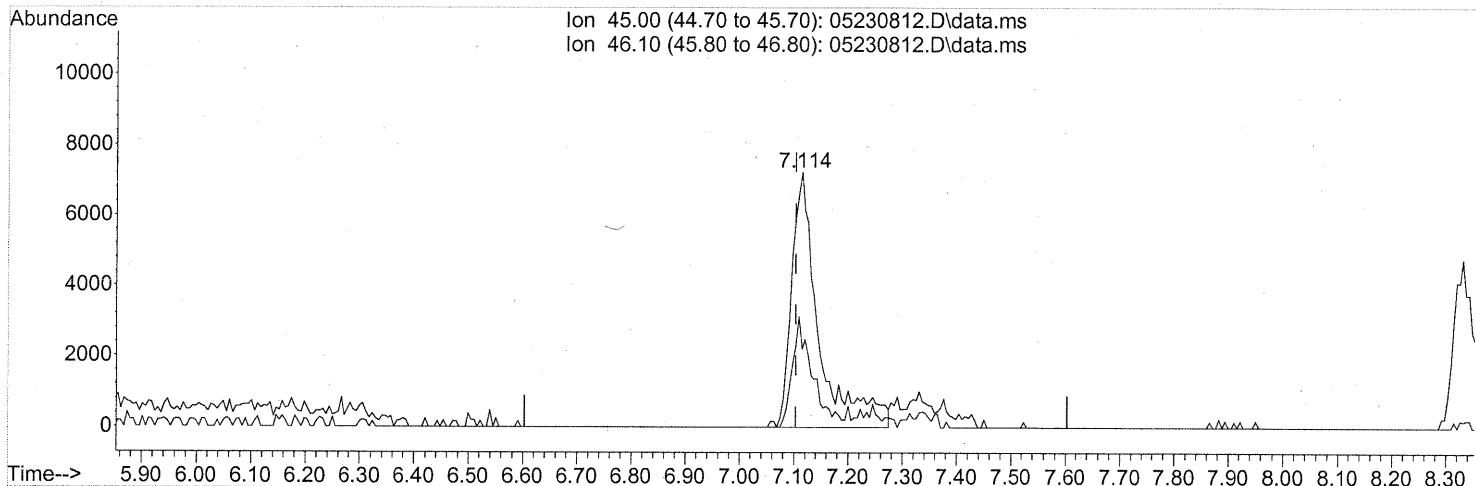
response 15546

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	30.95
100.90	9.30	10.11
102.90	6.00	6.60

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.114min (+0.011) 0.88ng

response 25275

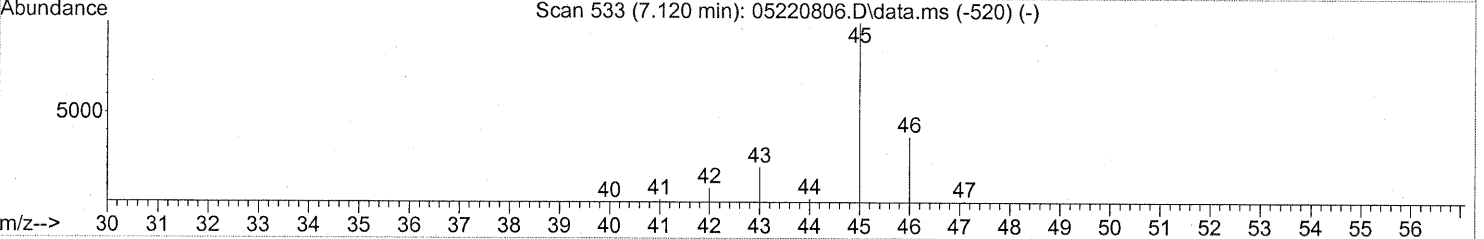
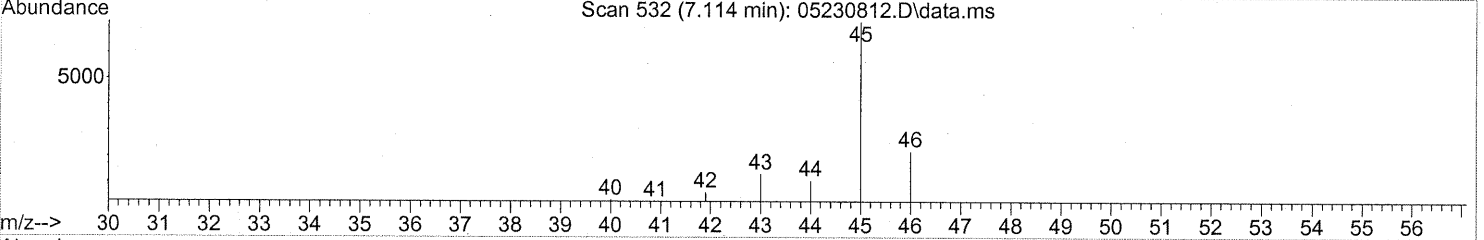
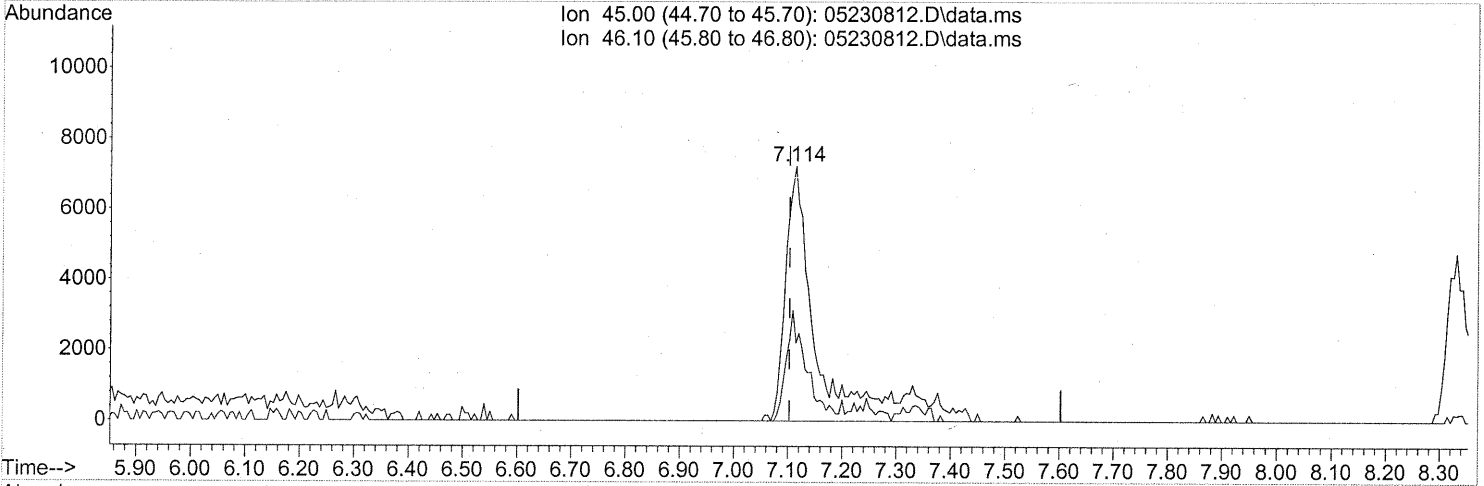
tailing

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	32.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 09:58:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.114min (+0.011) 1.06ng m

response 30413

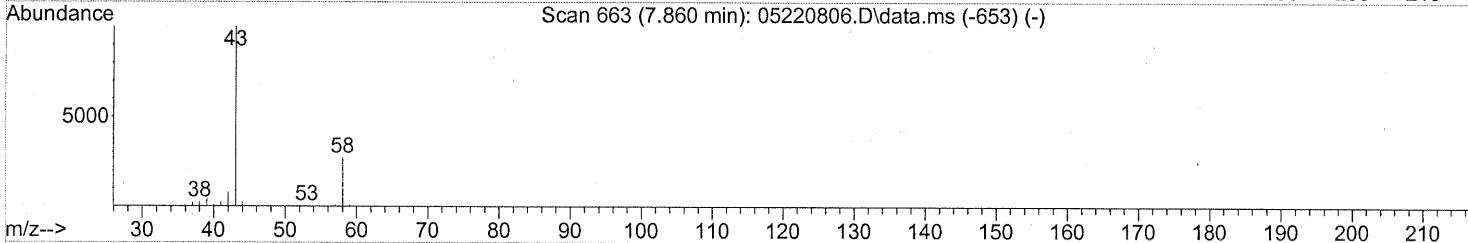
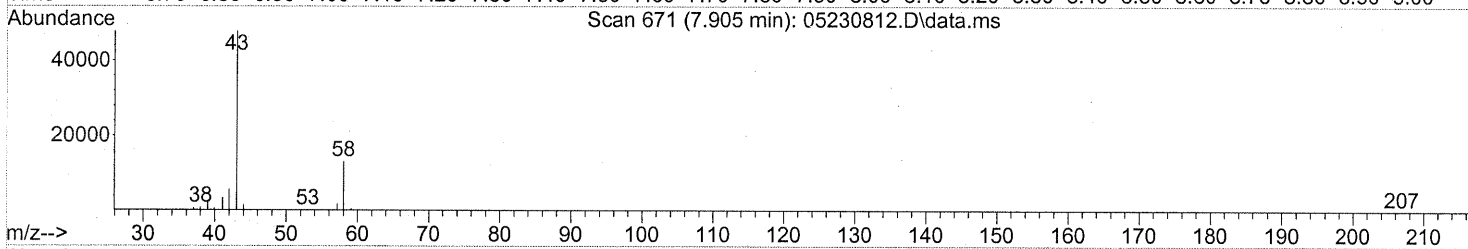
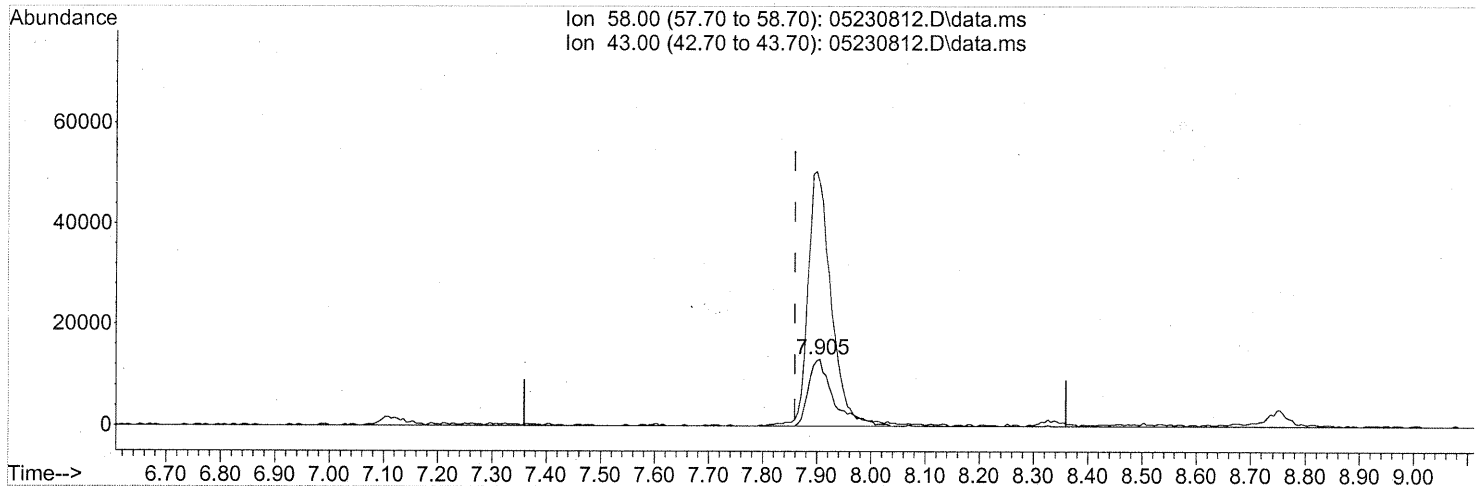
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	26.62
0.00	0.00	0.00
0.00	0.00	0.00

incl. tailing
DA 5/31/08
R 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(13) Acetone (T)

7.905min (+0.045) 1.44ng

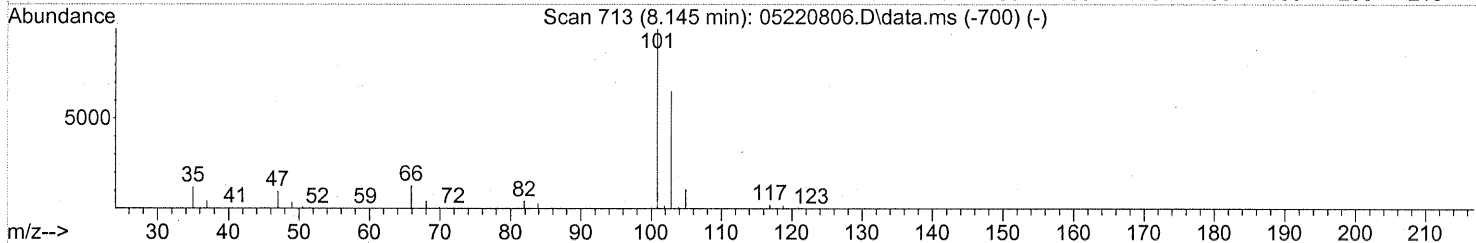
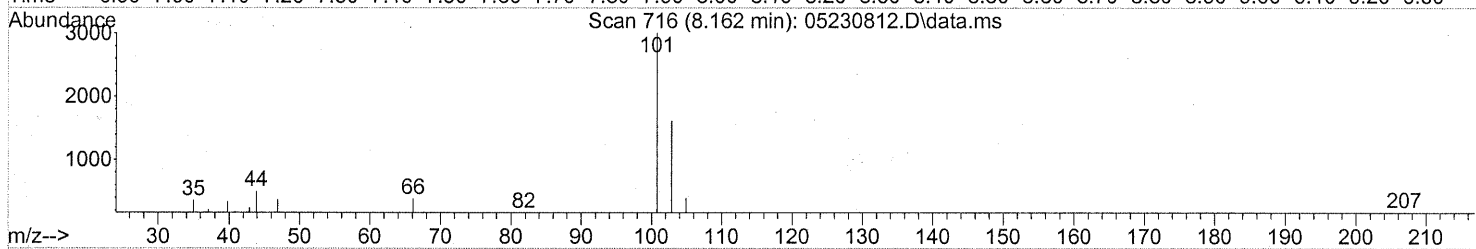
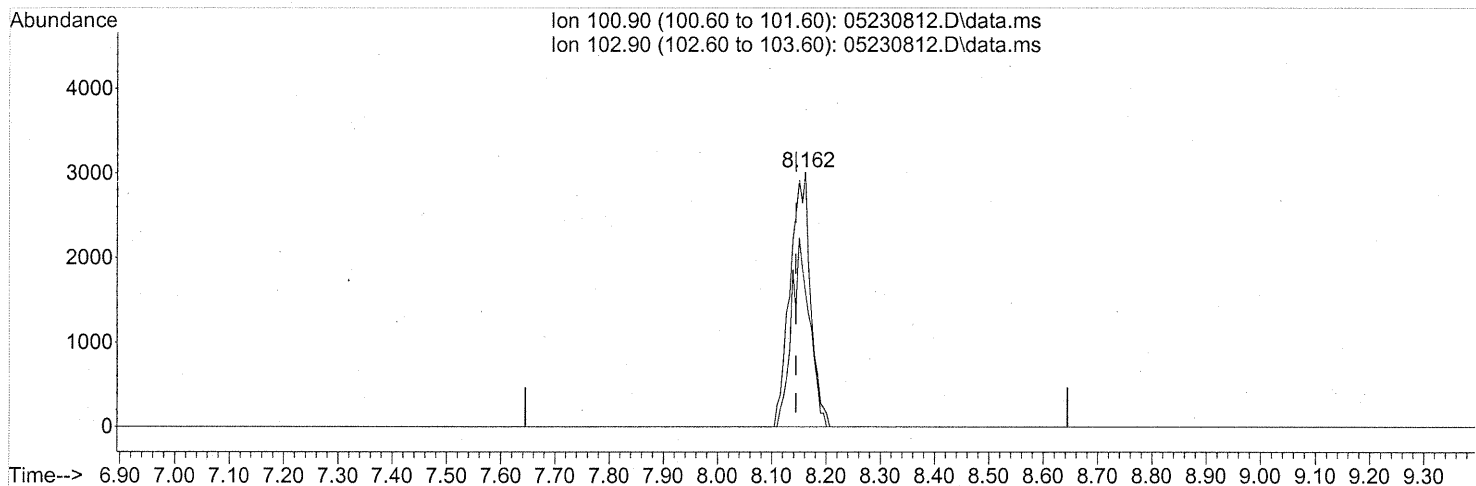
response 42195

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	359.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(14) Trichlorofluoromethane (T)

8.162min (+0.017) 0.12ng

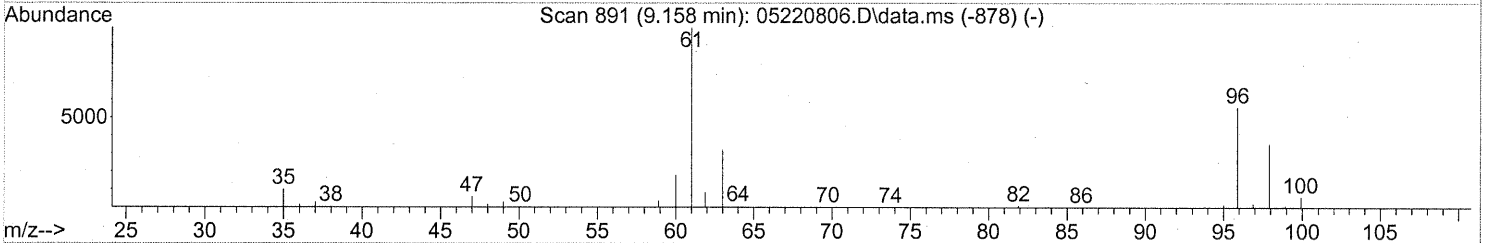
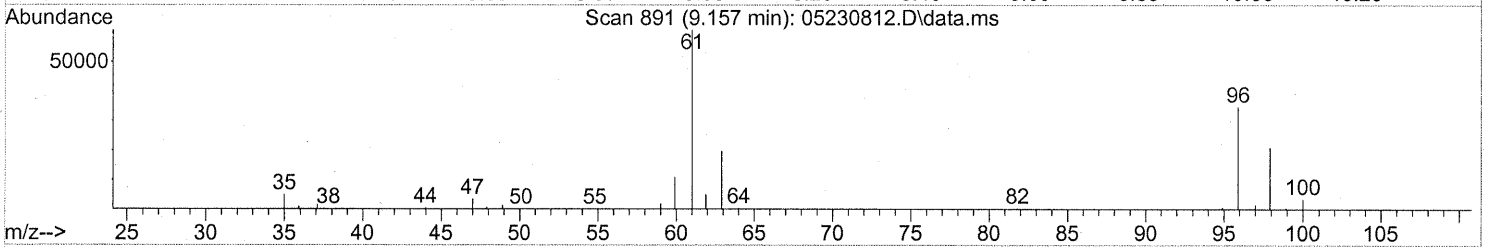
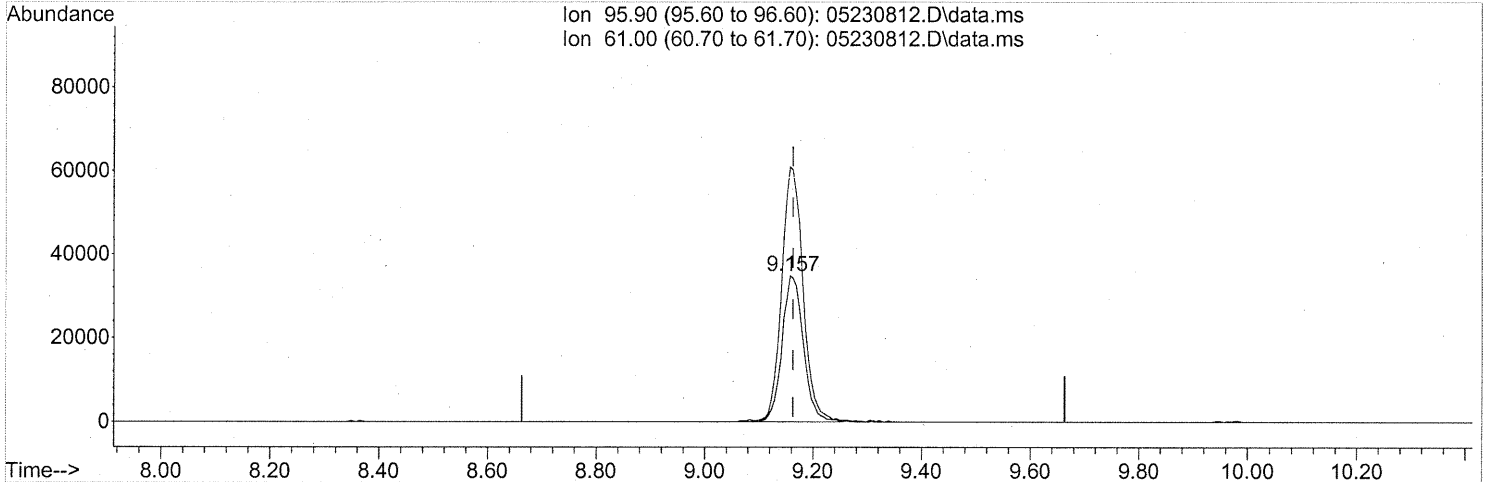
response 7850

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	65.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(17) 1,1-Dichloroethene (T)

9.157min (-0.006) 3.16ng

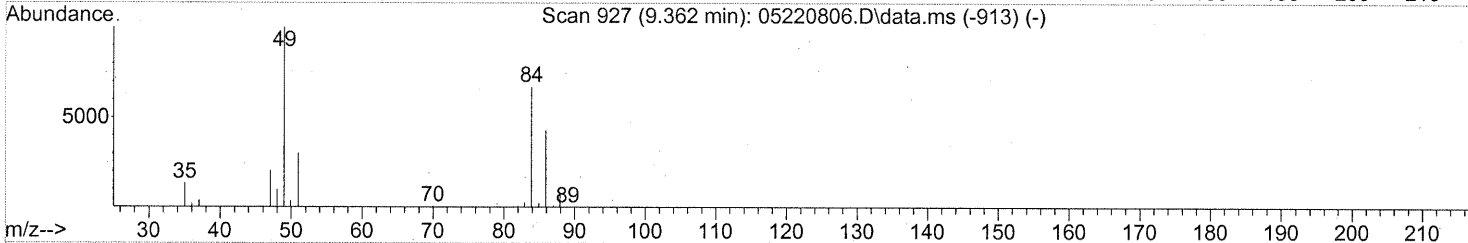
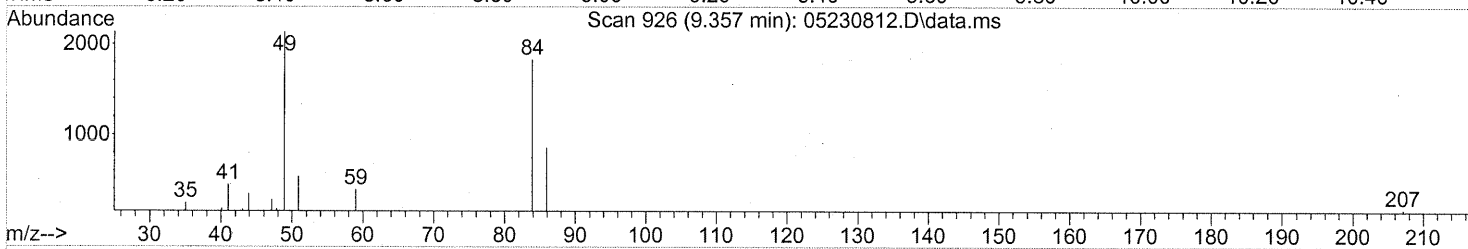
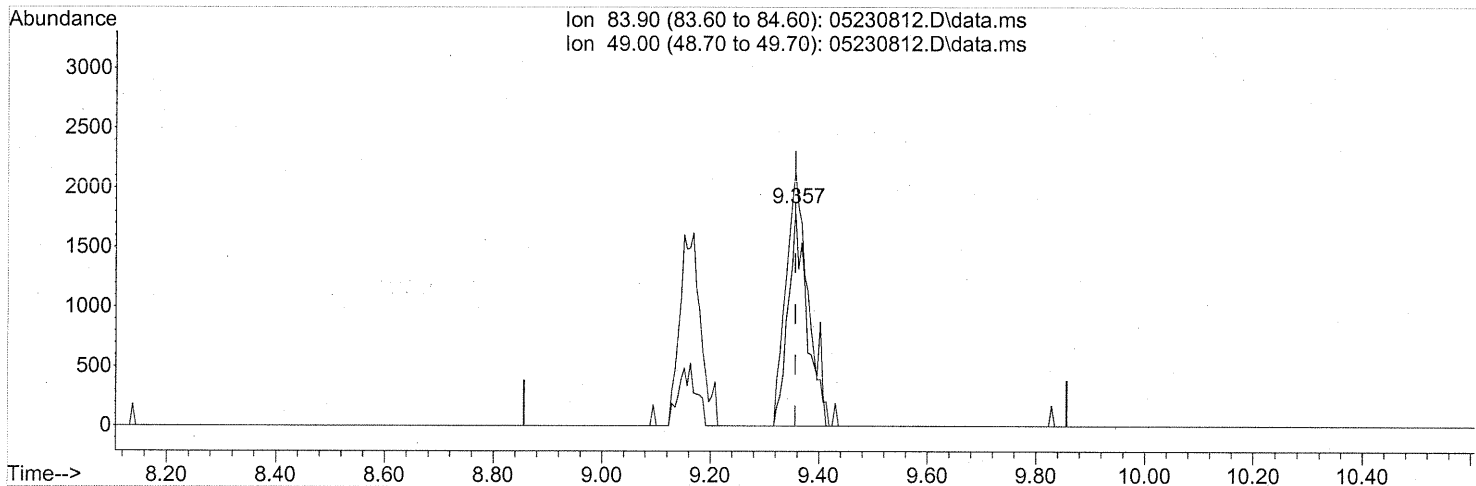
response 94551

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	175.97#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(19) Methylene Chloride (T)

9.357min (-0.000) 0.14ng

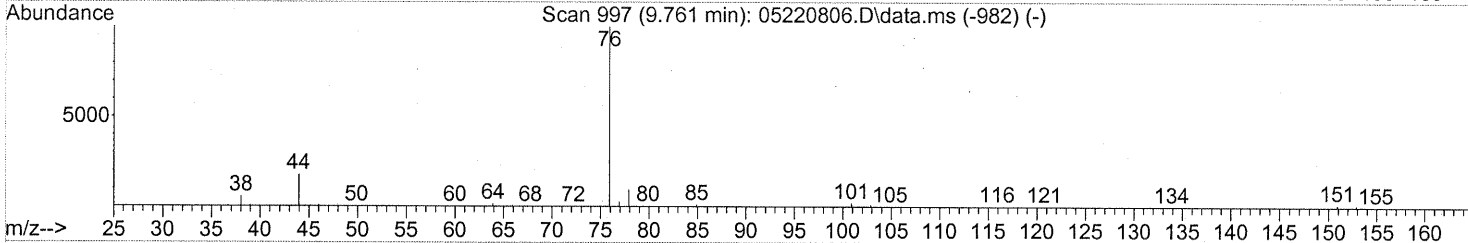
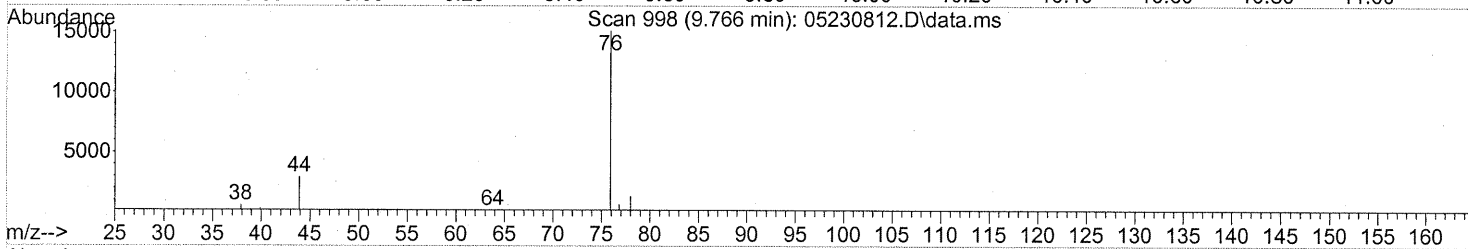
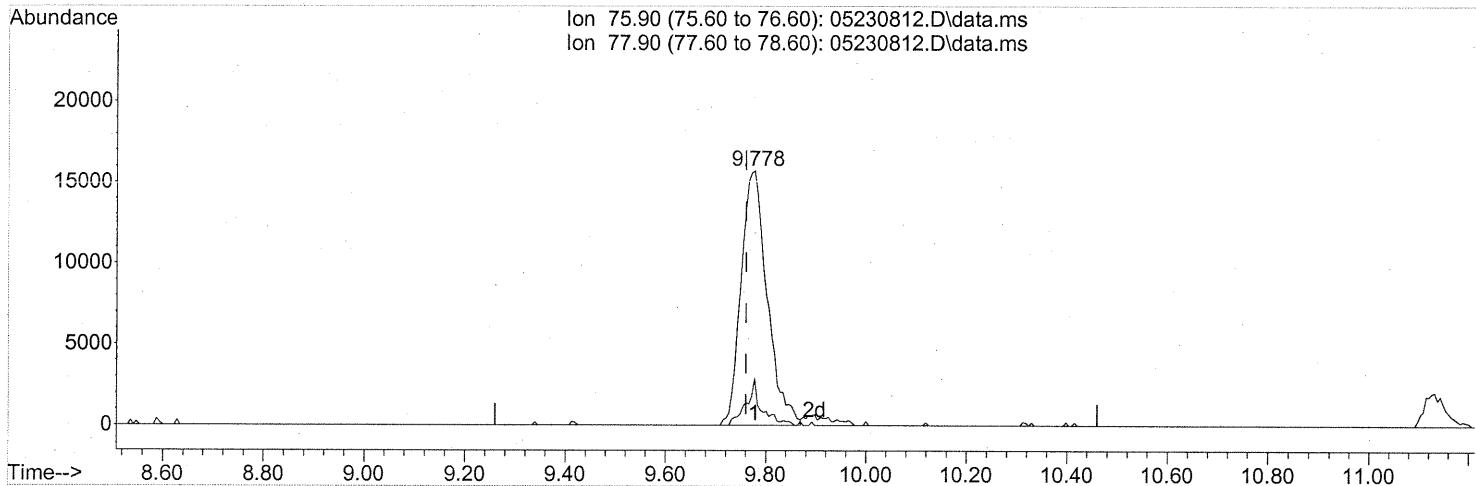
response 4556

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	129.68#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(22) Carbon Disulfide (T)

9.778min (+0.017) 0.45ng

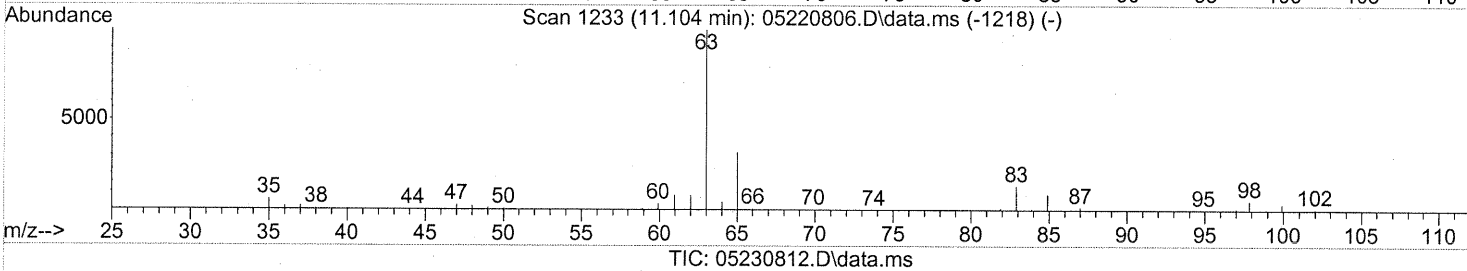
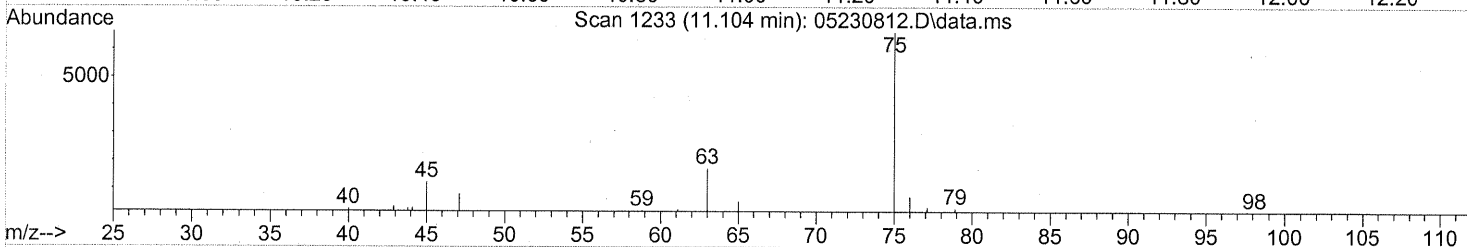
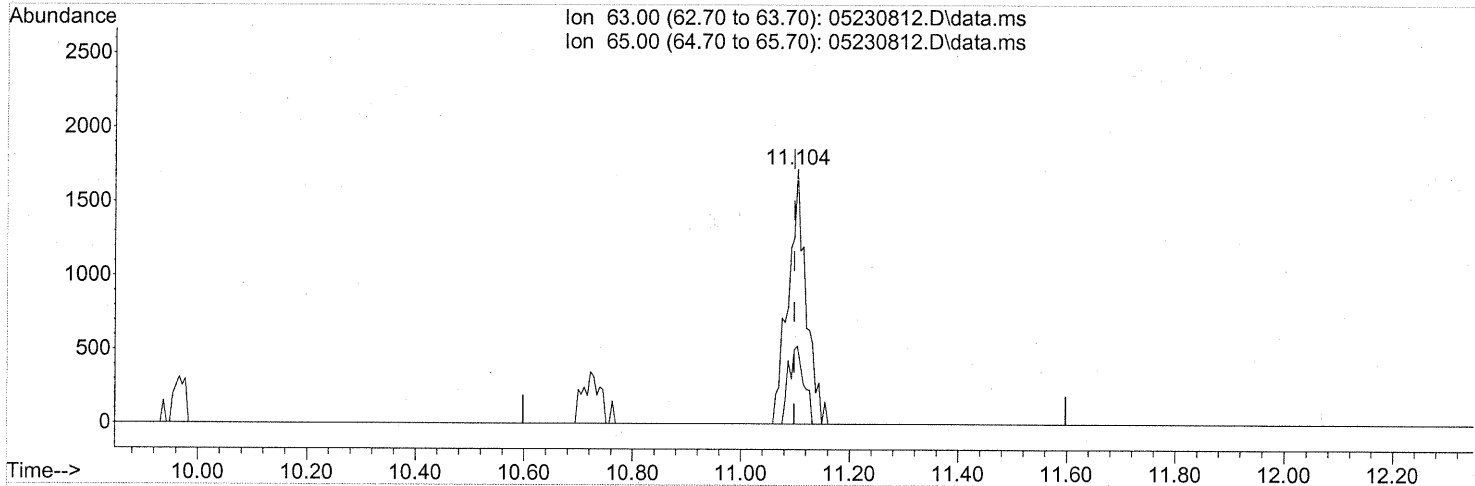
response 56396

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	10.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.104min (+0.006) 0.07ng

response 3970

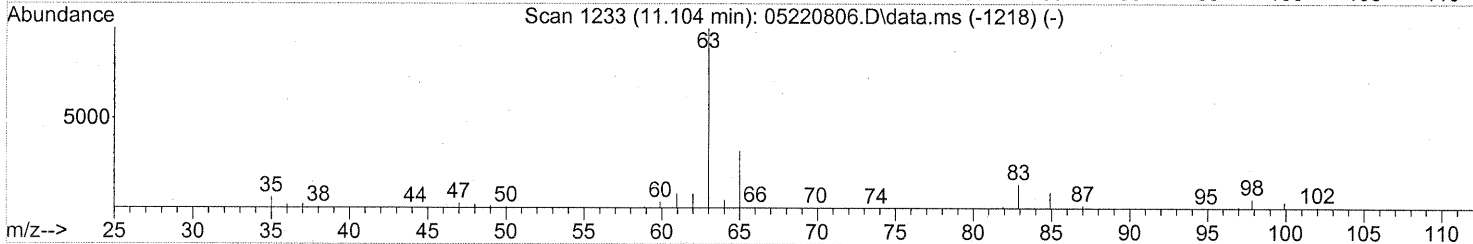
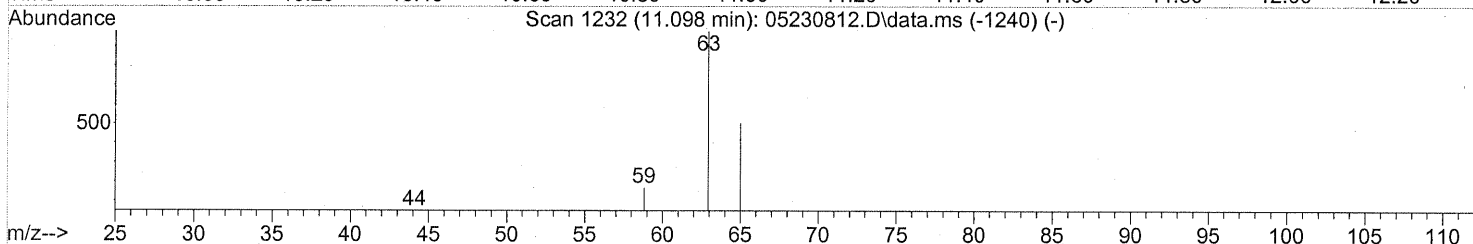
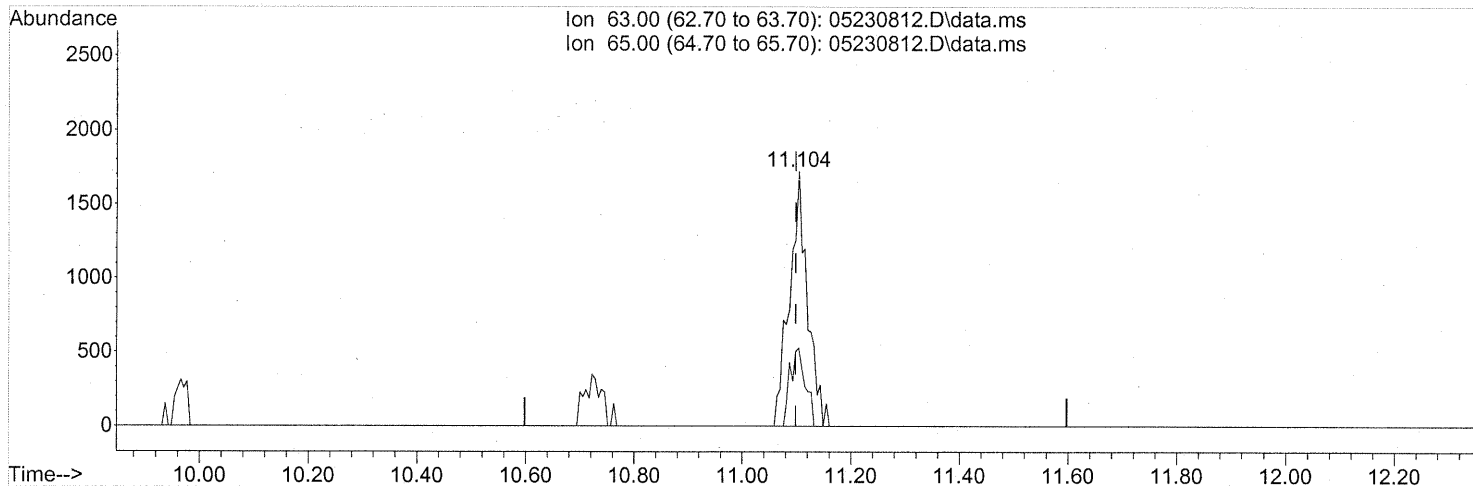
before

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	26.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 09:58:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.104min (+0.006) 0.07ng

response 3970

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	26.05
0.00	0.00	0.00
0.00	0.00	0.00

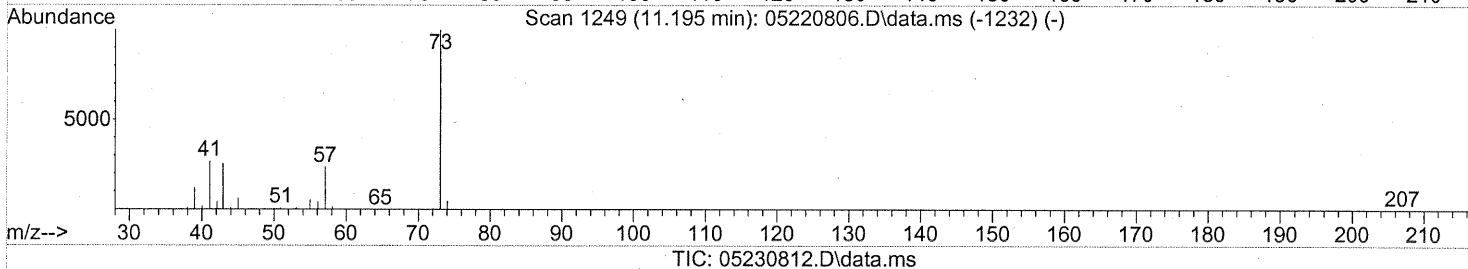
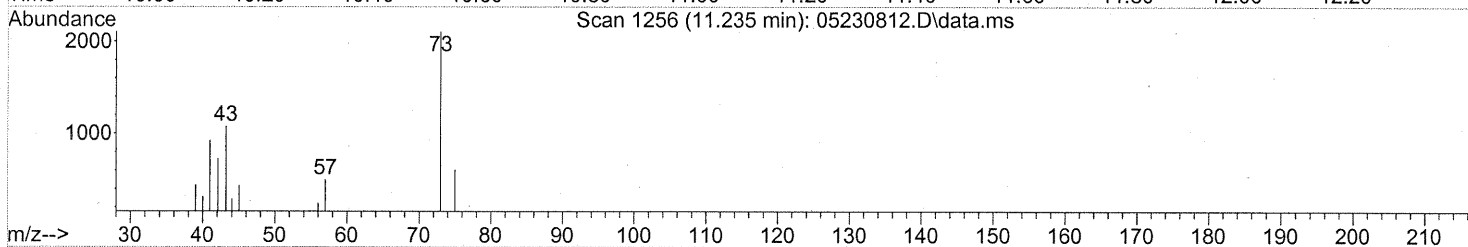
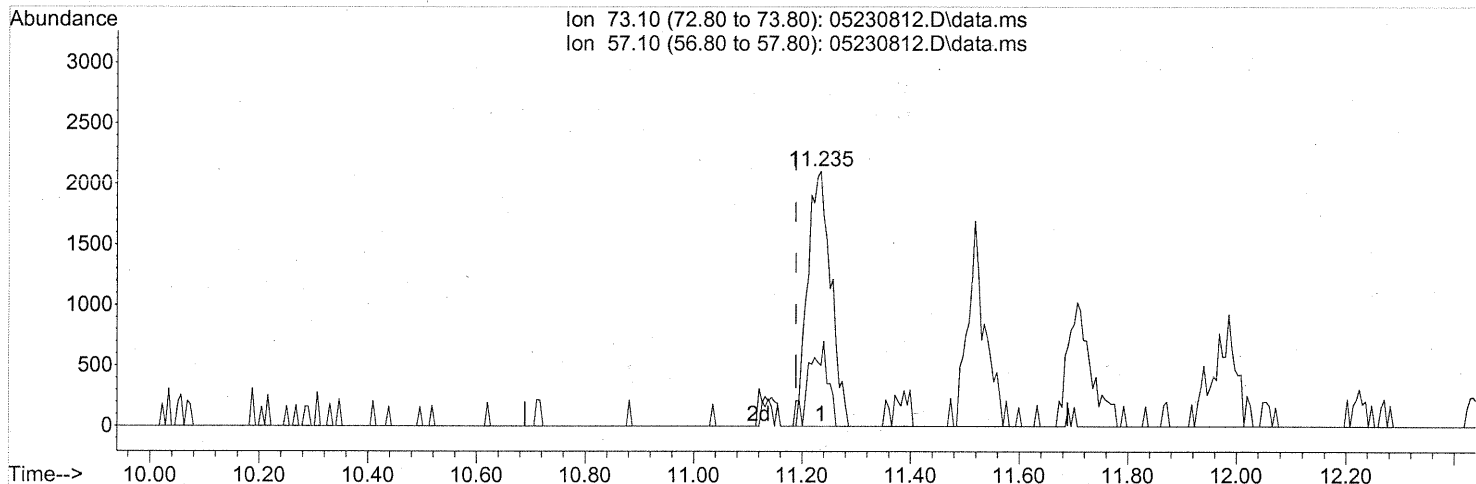
after subtraction

RT 6/4/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.235min (+0.045) 0.07ng

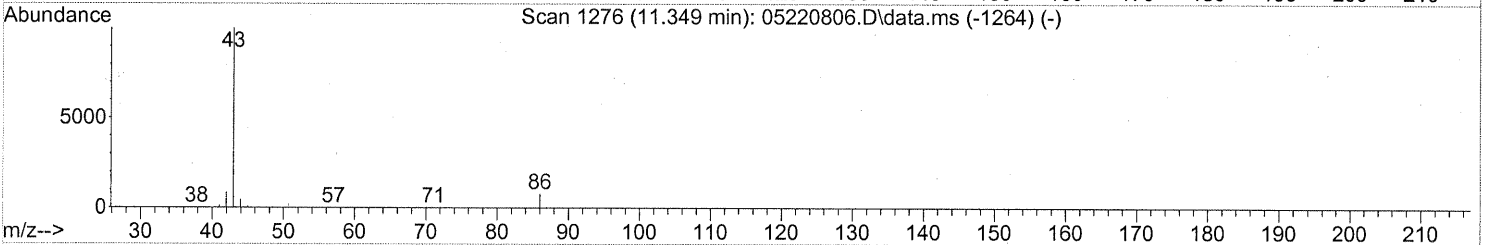
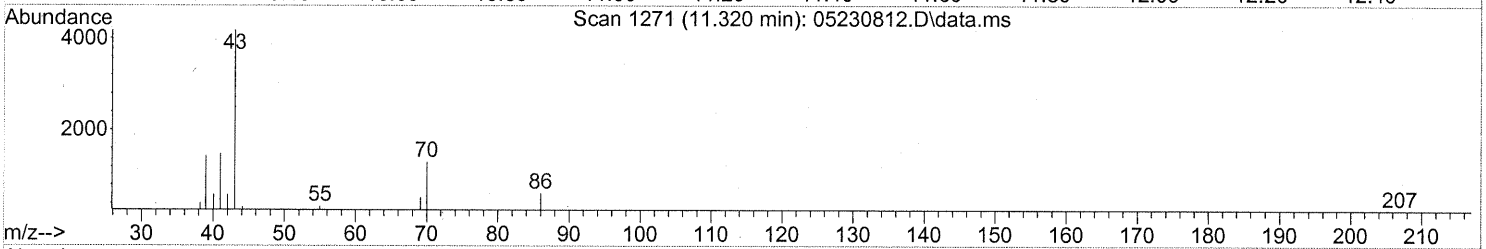
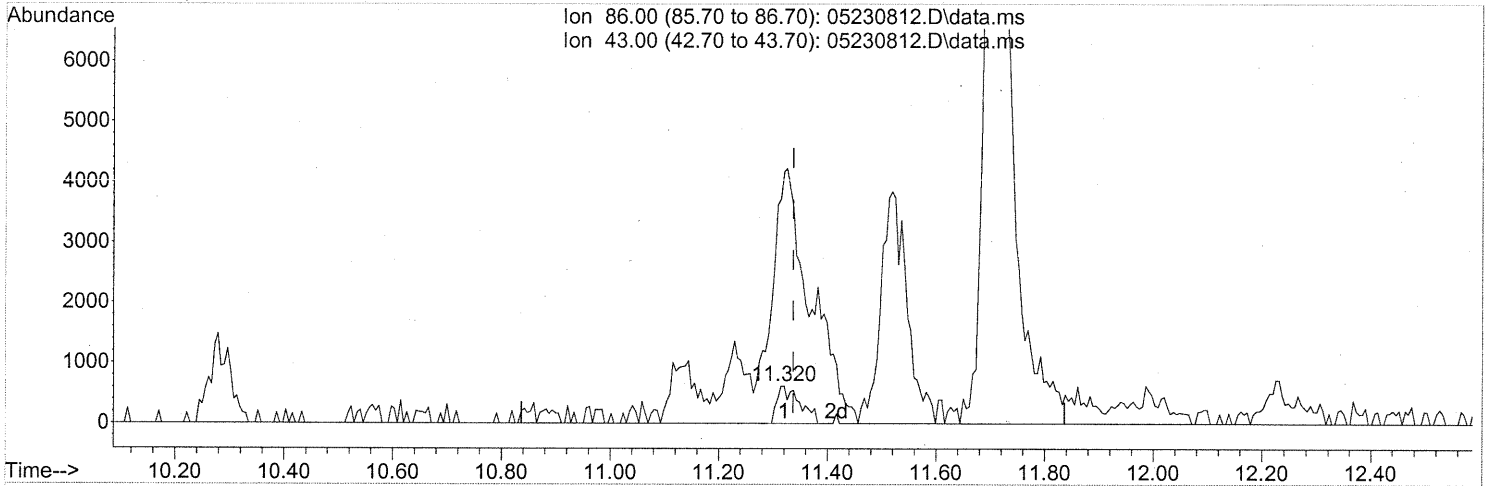
response 6250

Ion	Exp%	Act%
73.10	100	100
57.10	31.40	27.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(26) Vinyl Acetate (T)

11.320min (-0.017) 0.33ng

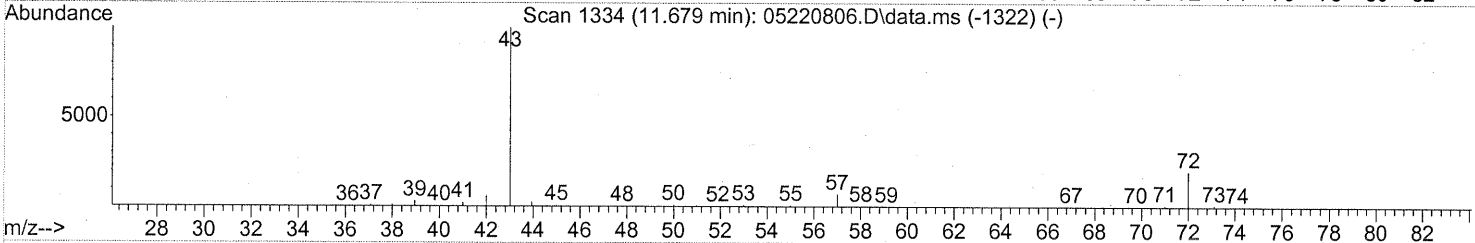
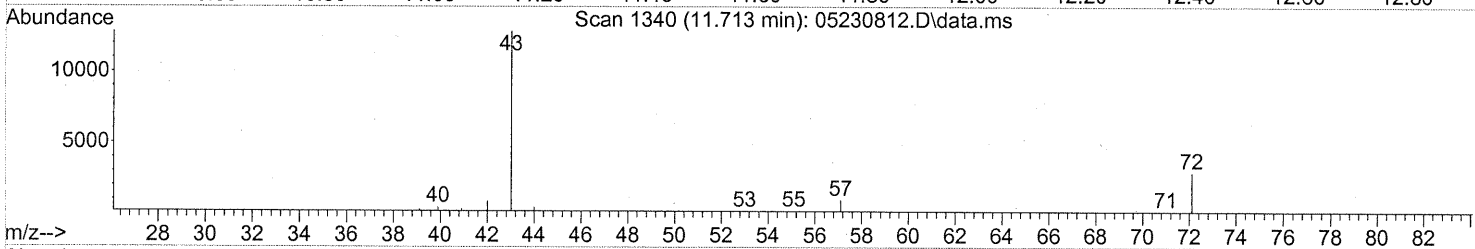
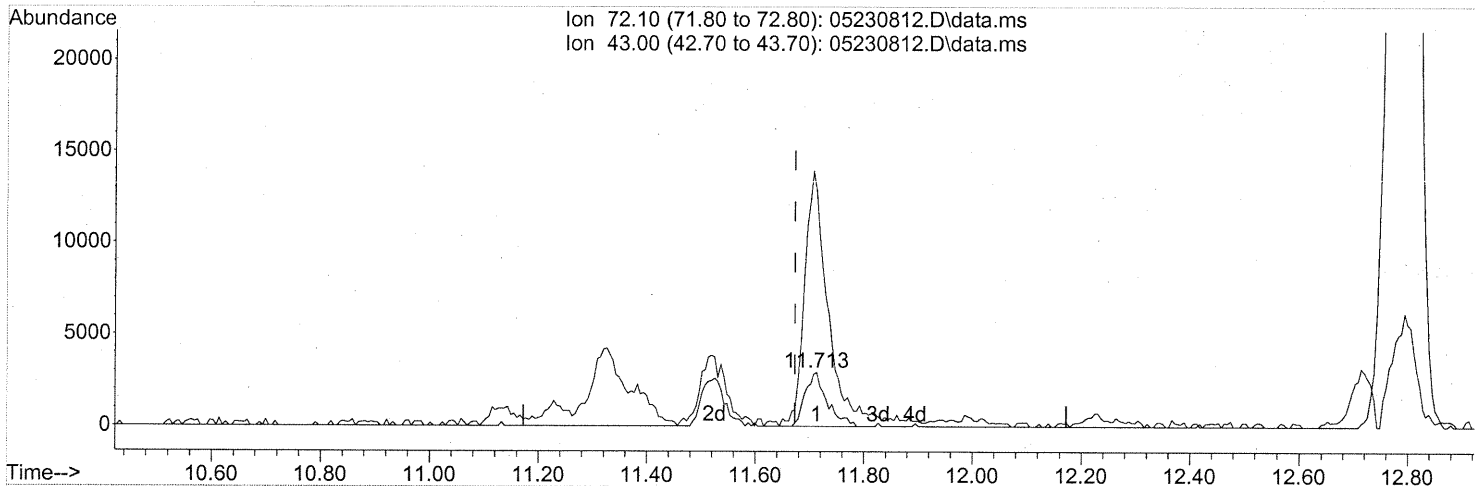
response 1778

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	1175.25#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(27) 2-Butanone (T)

11.713min (+0.040) 0.38ng

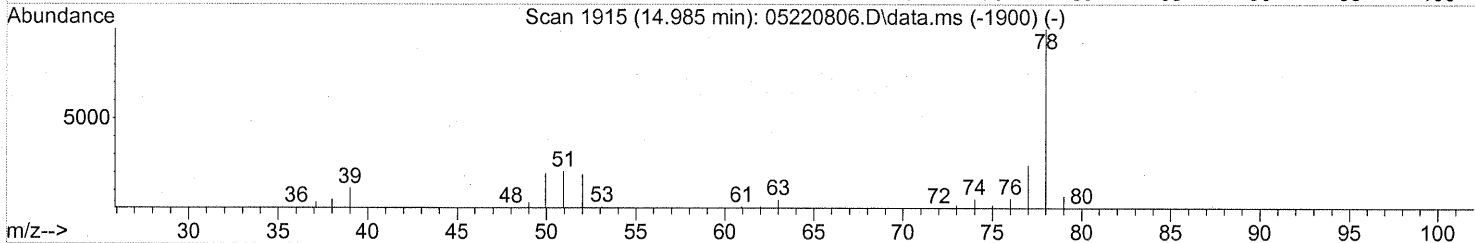
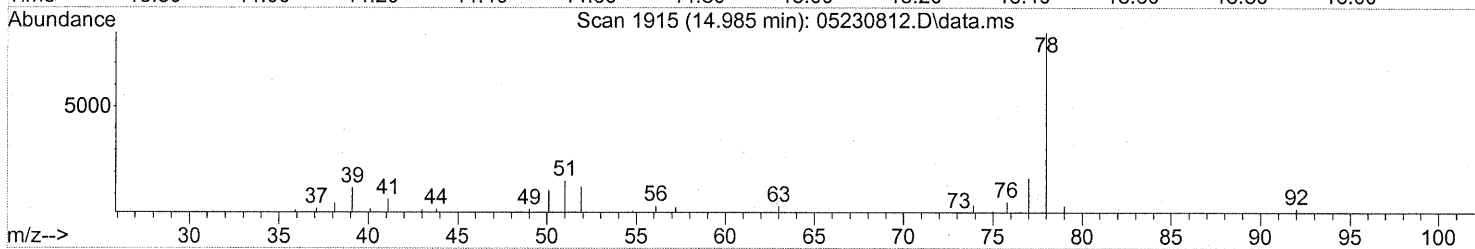
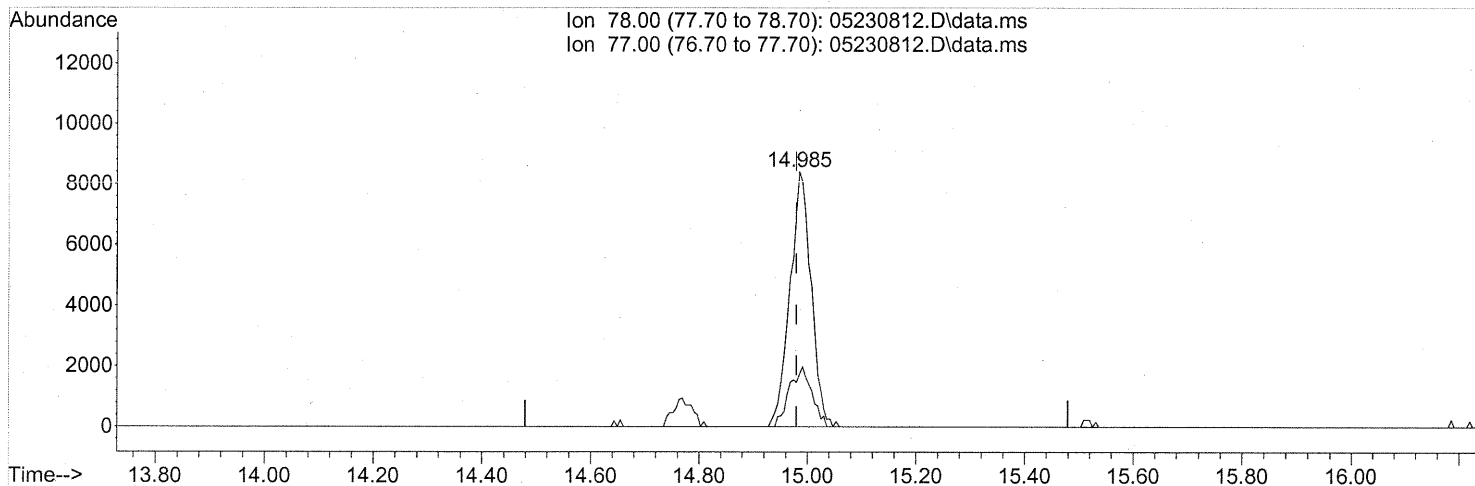
response 8204

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	517.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

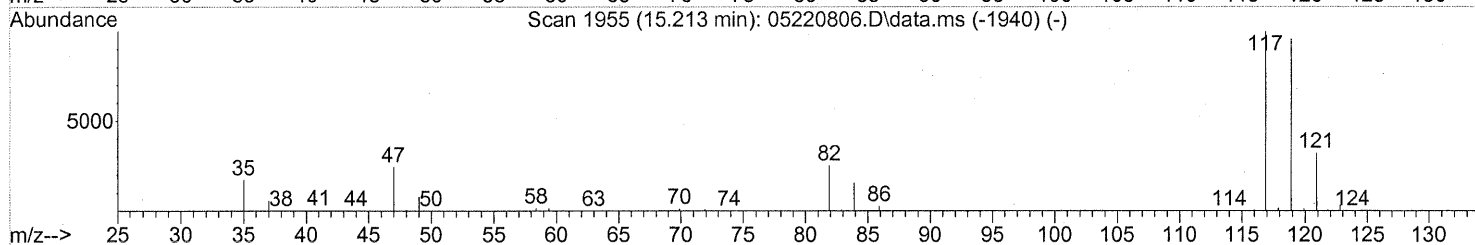
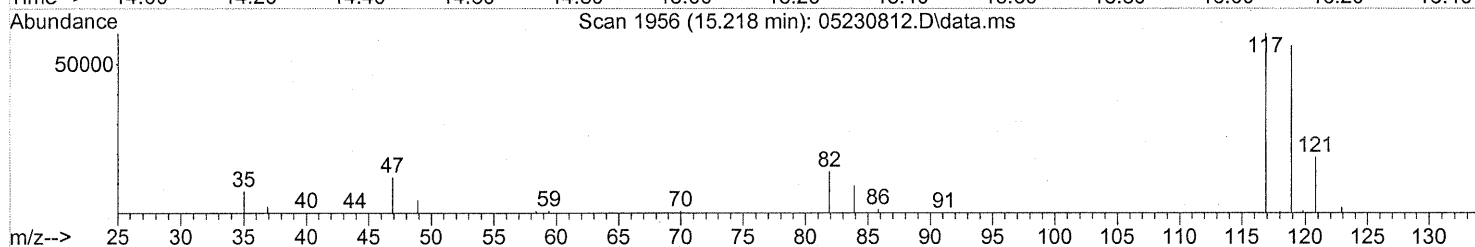
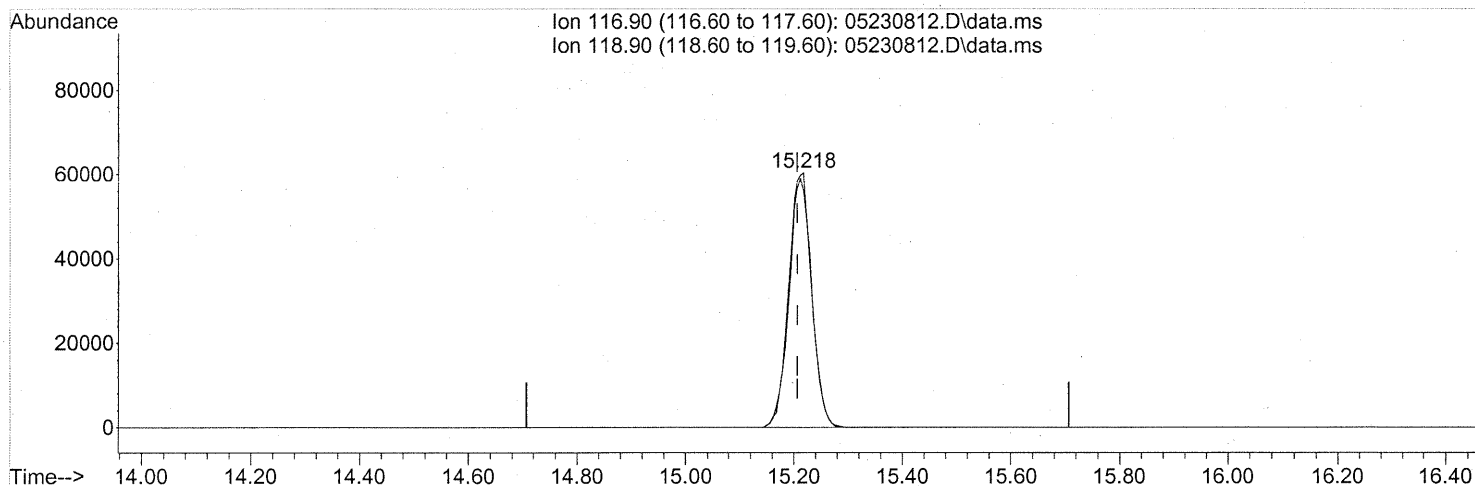
(41) Benzene (T)
 14.985min (+0.006) 0.19ng
 response 22873

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(42) Carbon Tetrachloride (T)

15.218min (+0.011) 3.86ng

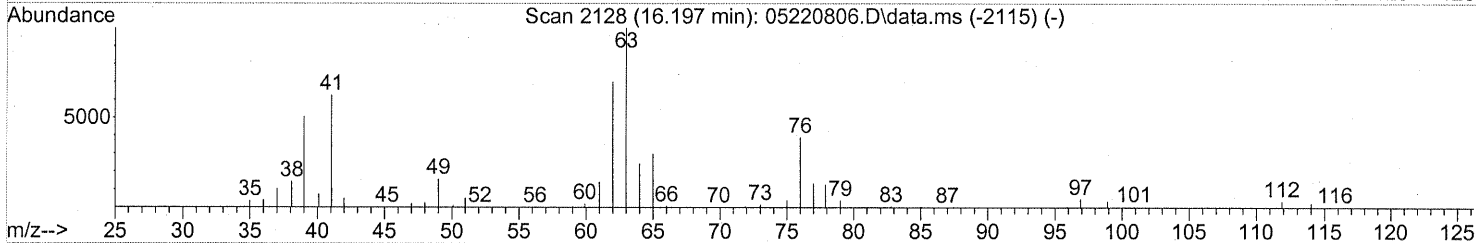
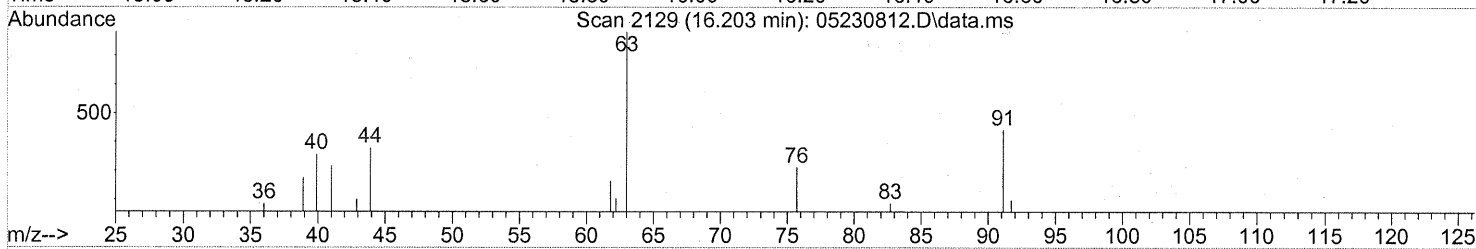
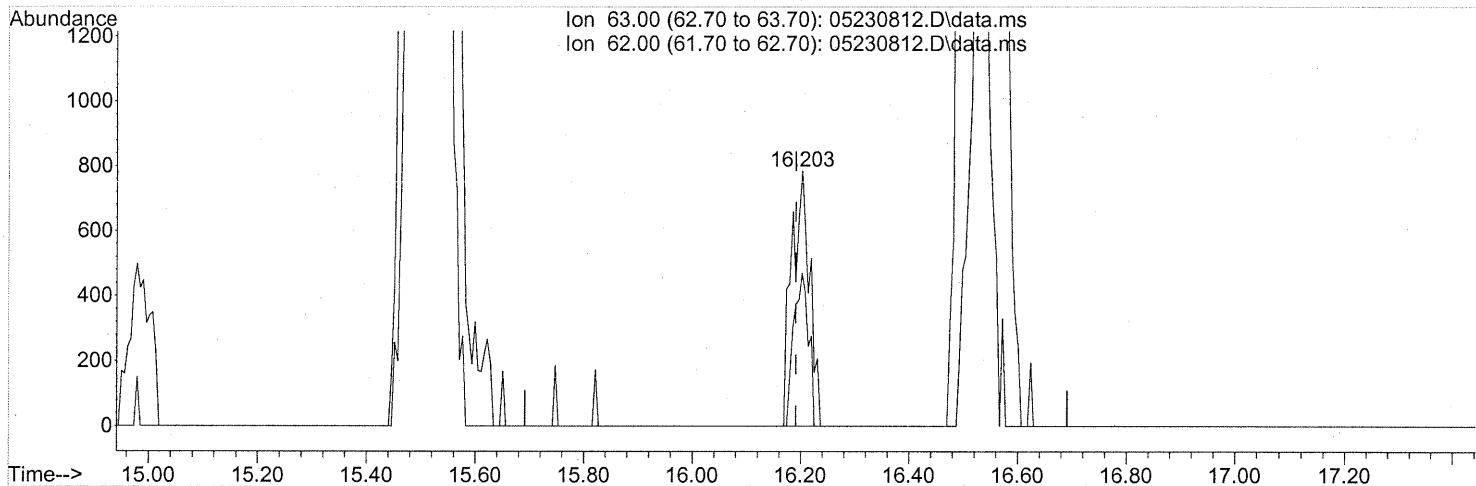
response 178594

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	96.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(45) 1,2-Dichloropropane (T)

16.203min (+0.011) 0.06ng

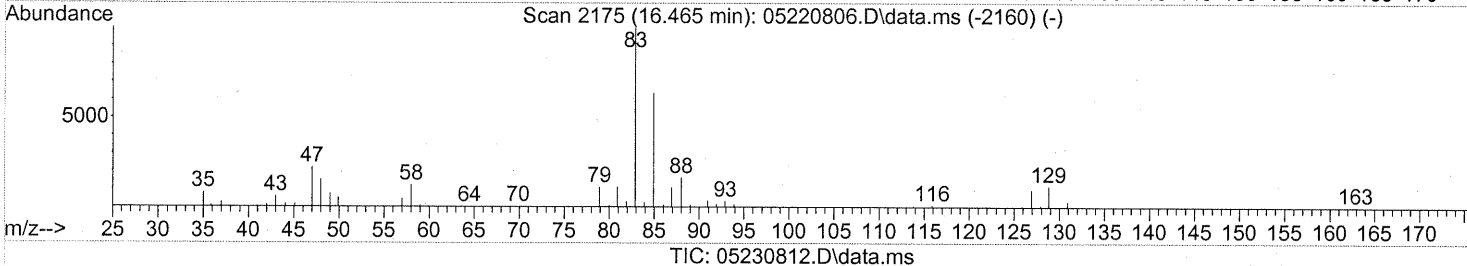
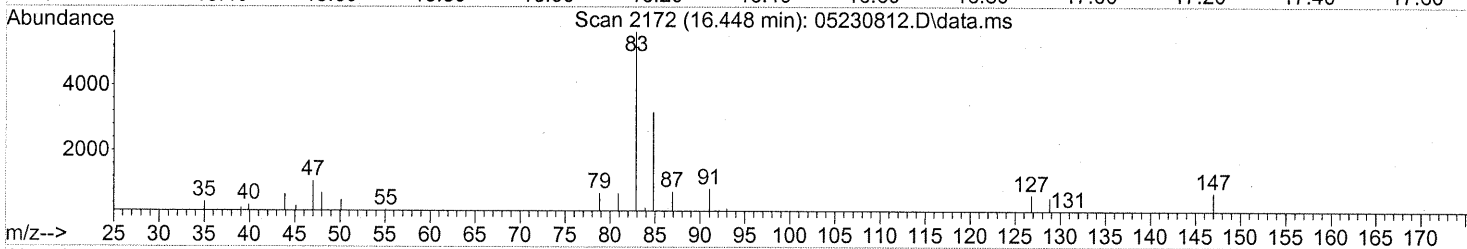
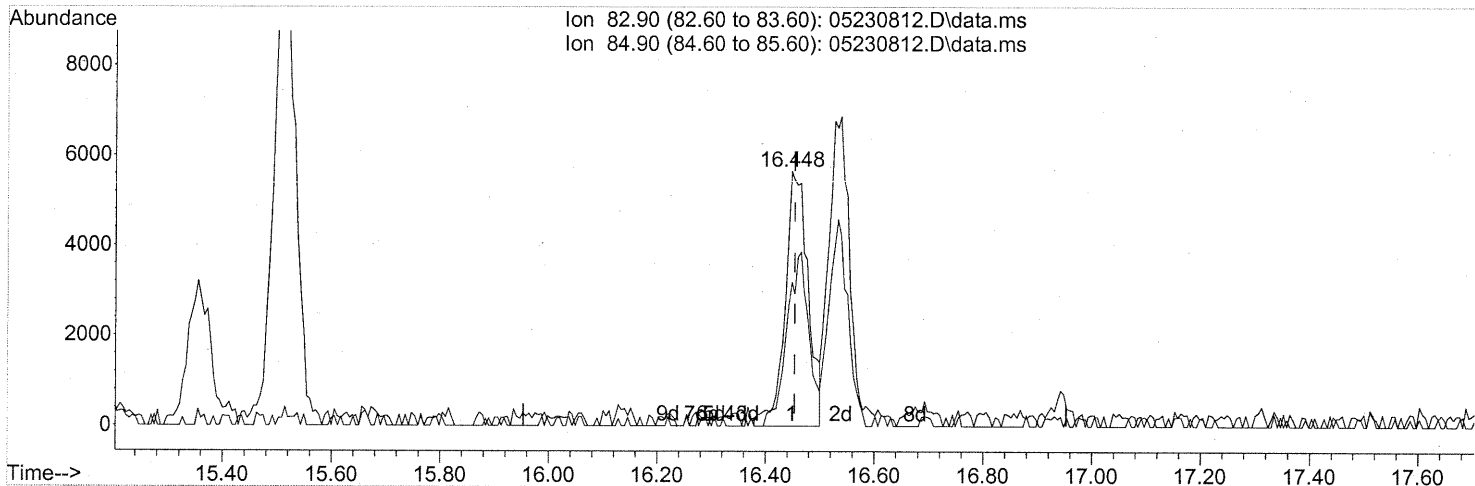
response 1807

Ion	Exp%	Act%
63.00	100	100
62.00	71.30	49.64#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.448min (-0.006) 0.41ng

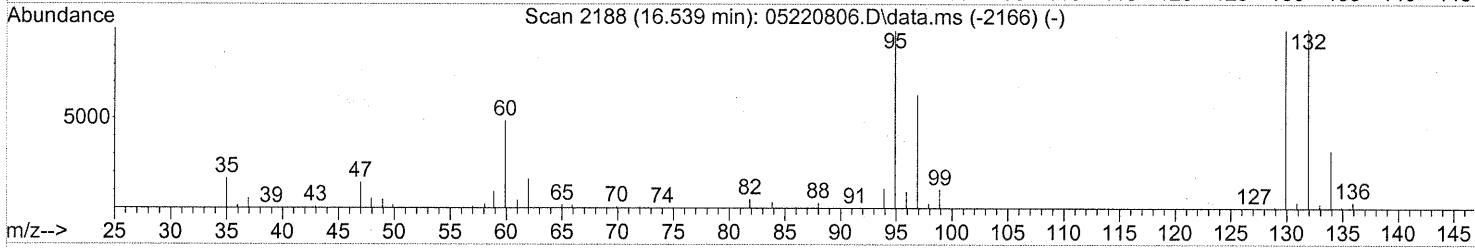
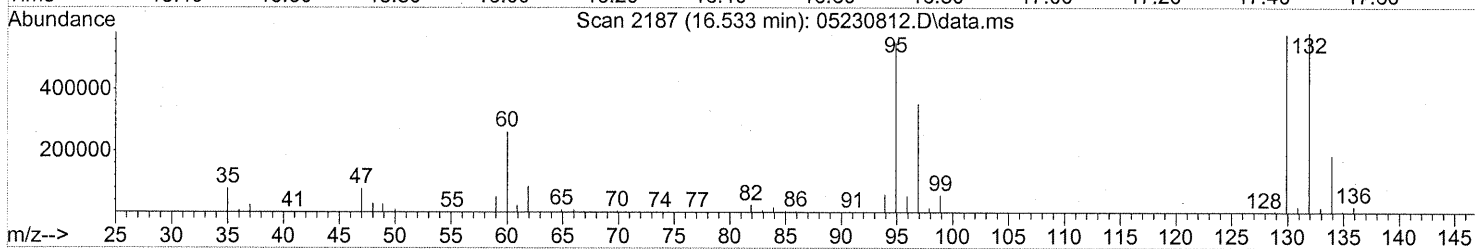
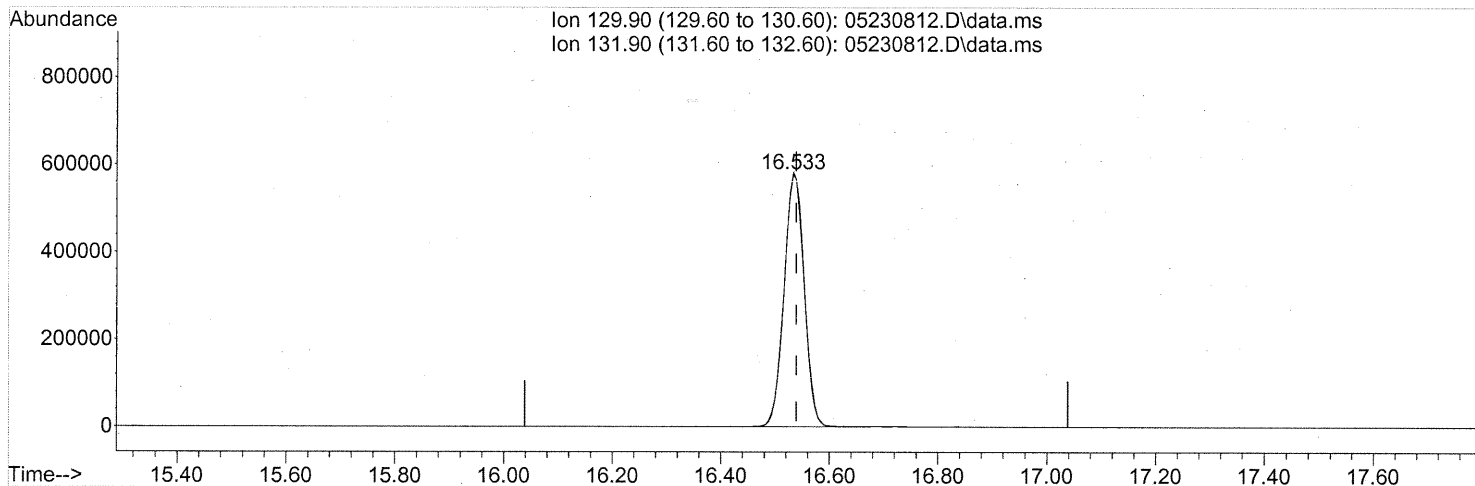
response 16588

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	65.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

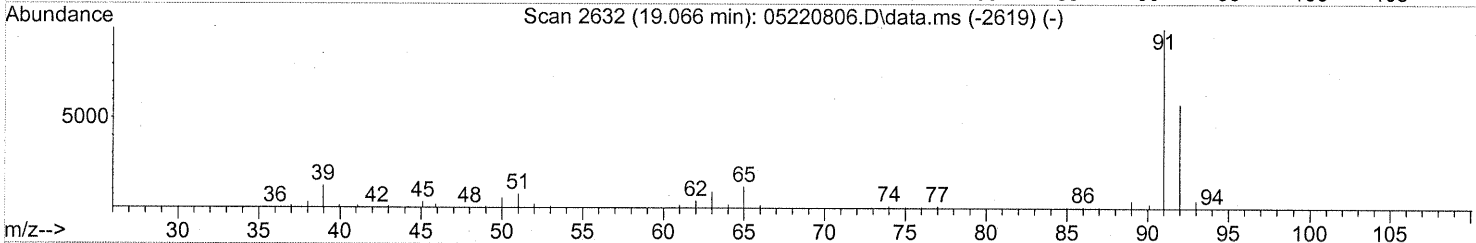
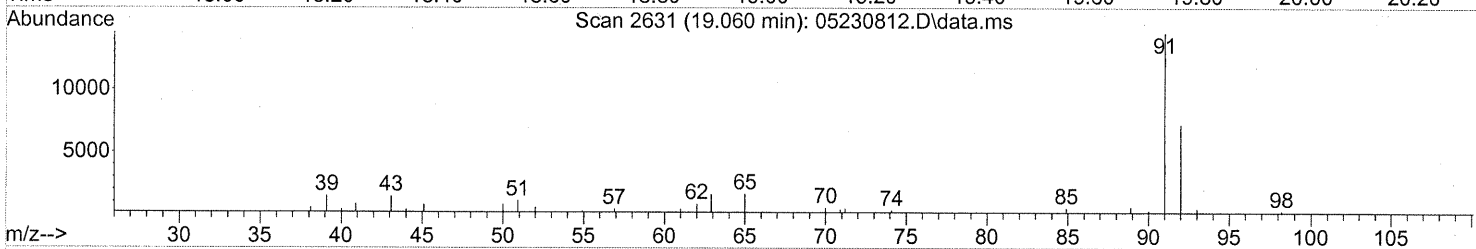
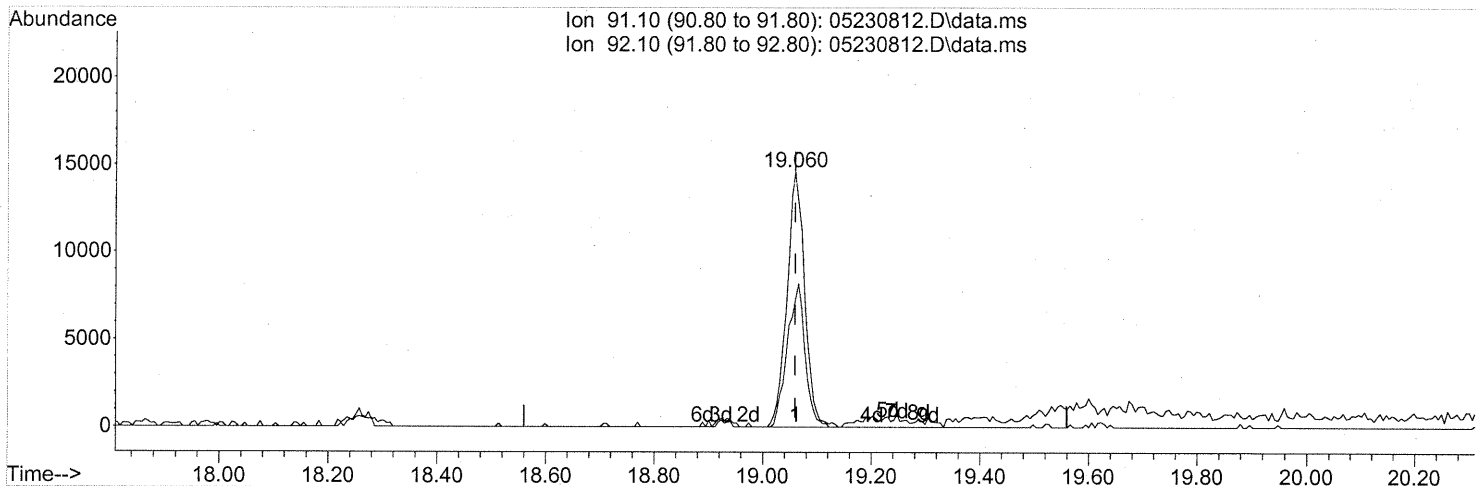
(47) Trichloroethene (T)
 16.533min (-0.006) 40.07ng
 response 1477531

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.25ng

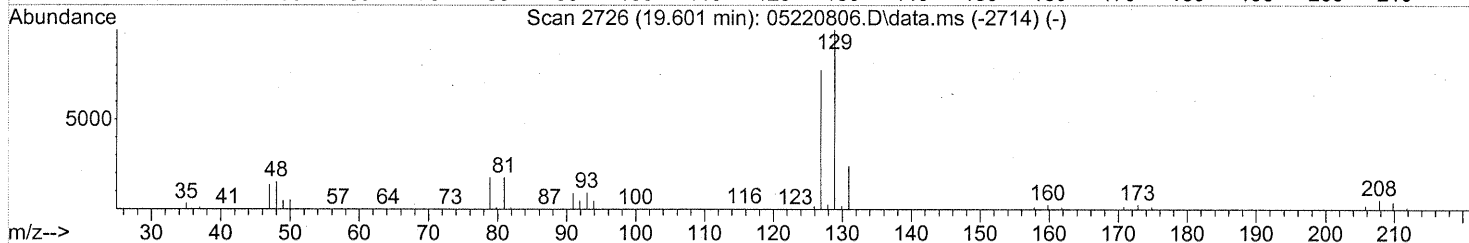
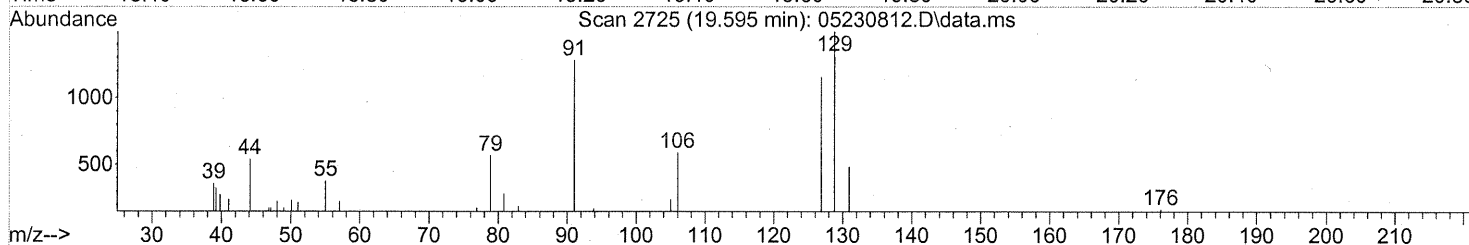
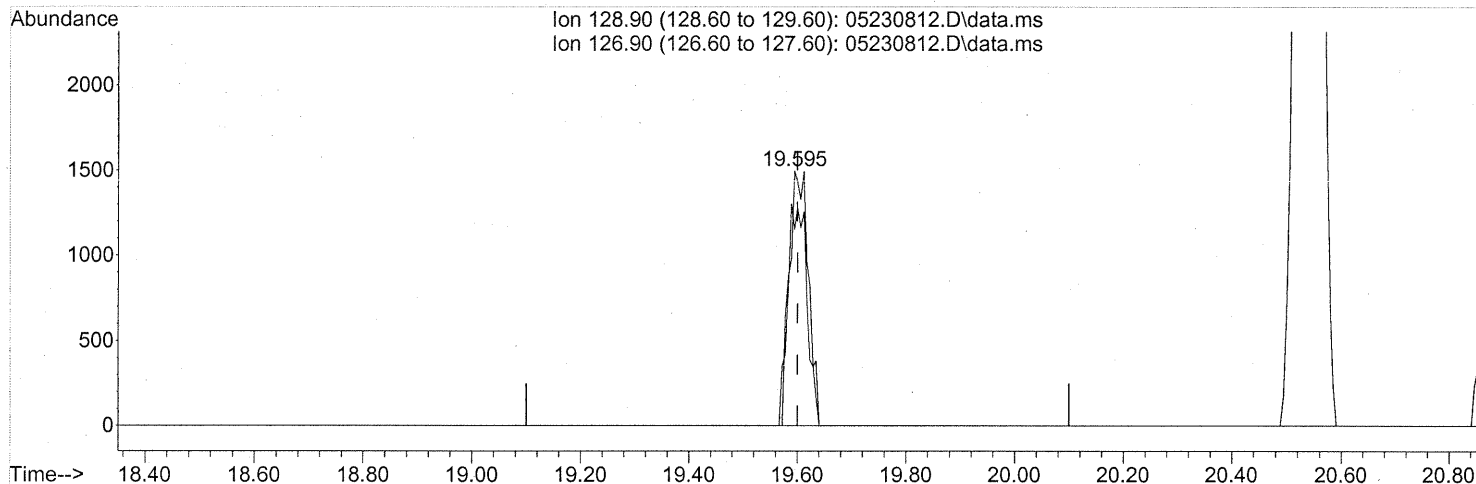
response 33145

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	56.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(60) Dibromochloromethane (T)

19.595min (-0.006) 0.10ng

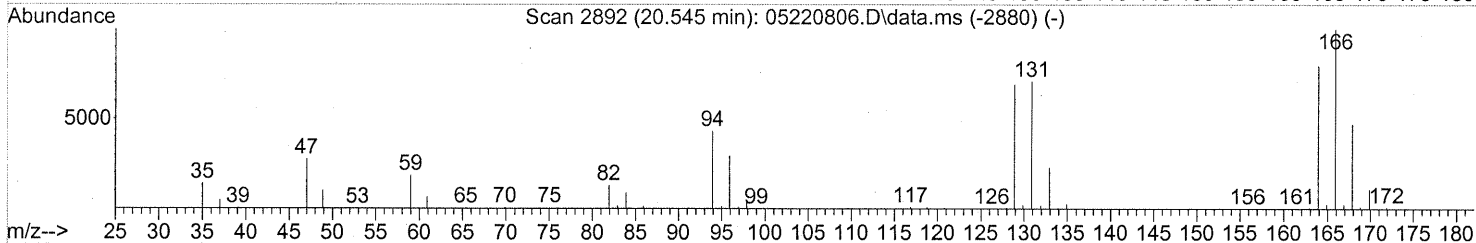
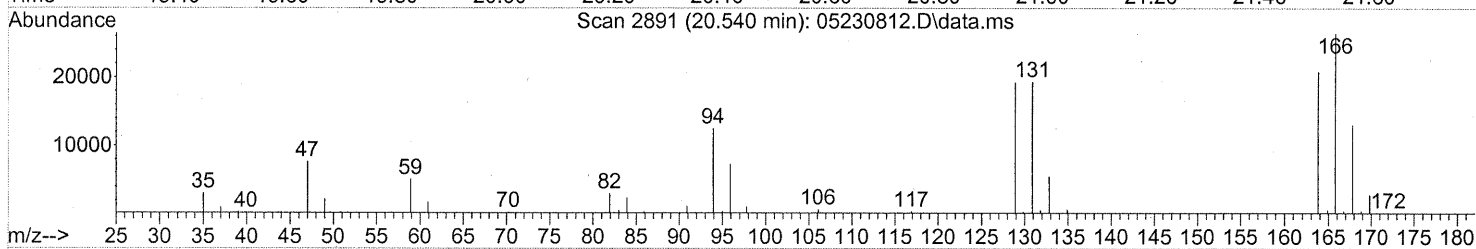
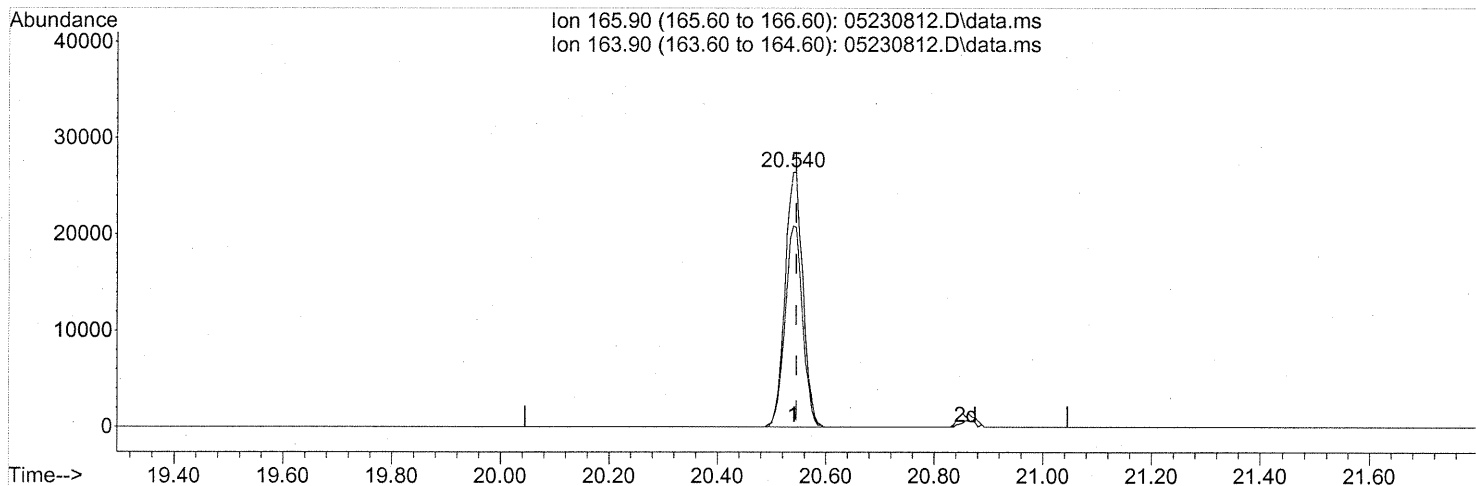
response 3672

Ion	Exp%	Act%
128.90	100	100
126.90	76.90	87.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 1.57ng

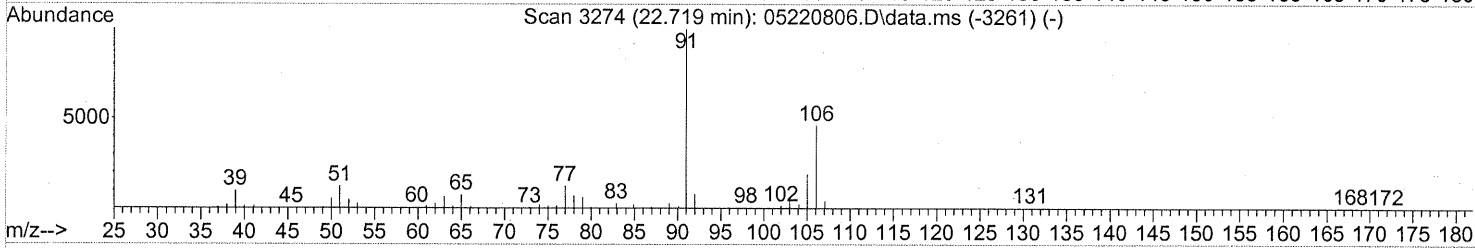
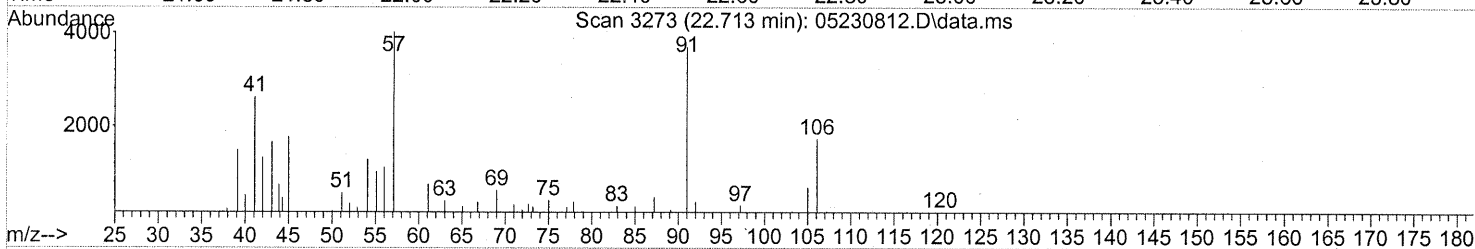
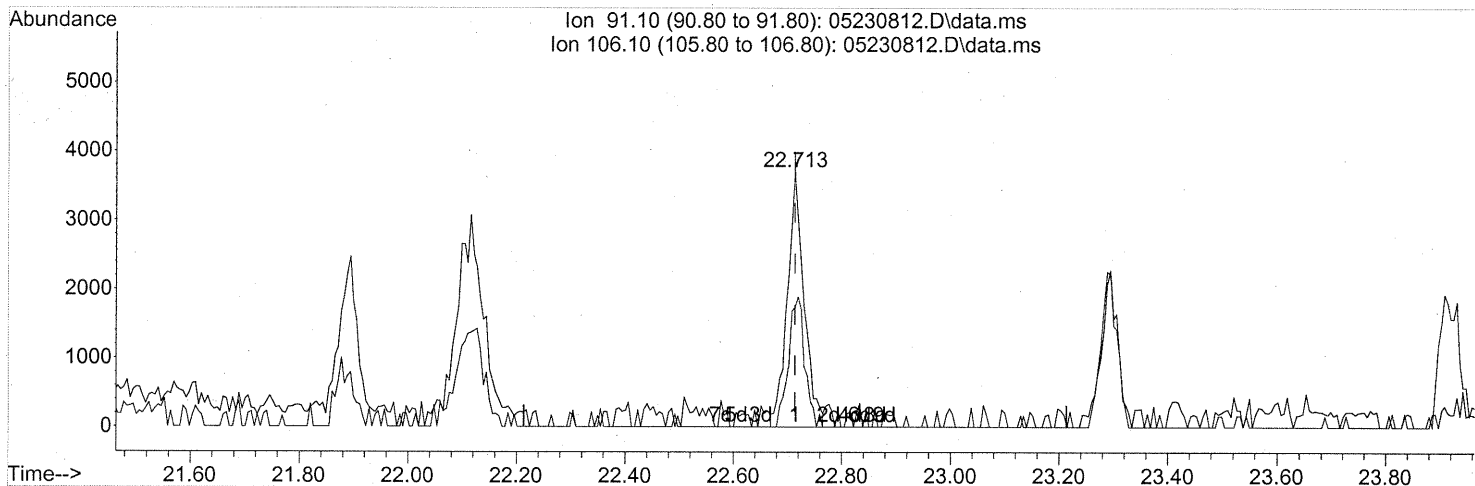
response 60322

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	77.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



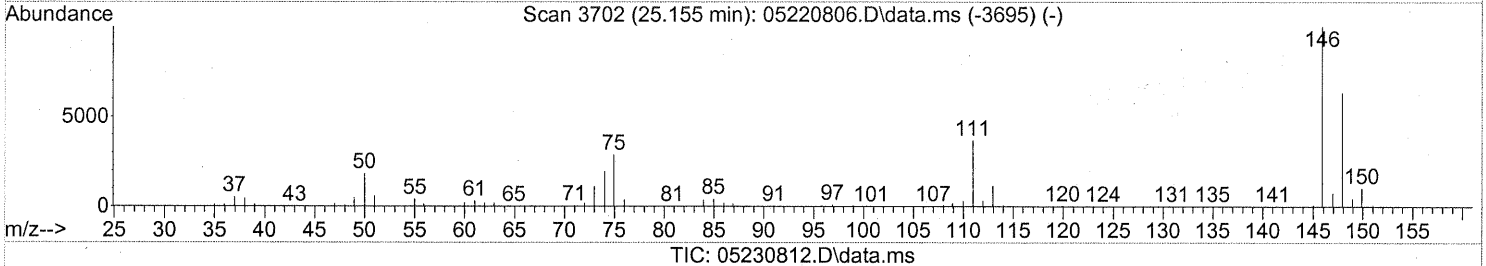
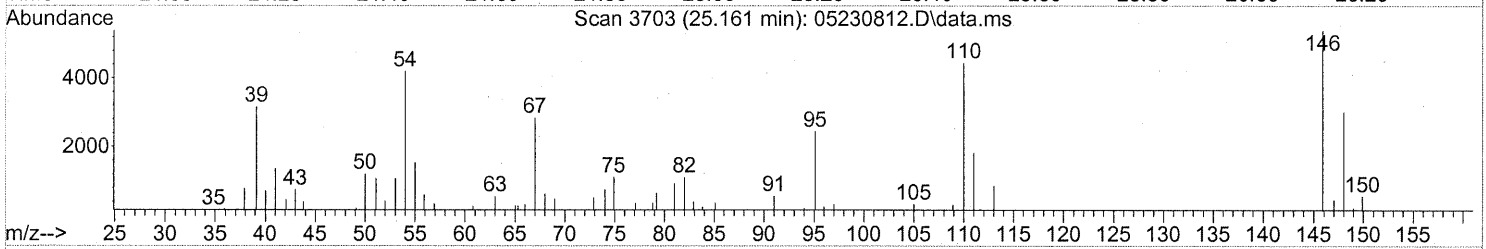
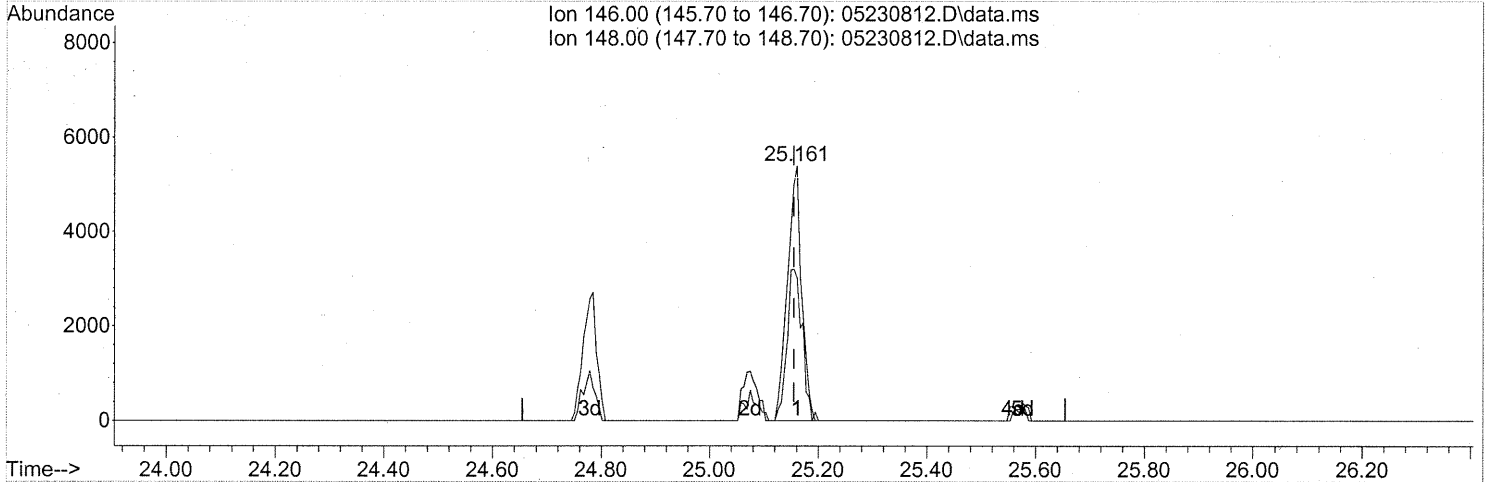
(70) o-Xylene (T)
 22.713min (-0.000) 0.07ng
 response 7969

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	49.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.161min (+0.006) 0.12ng

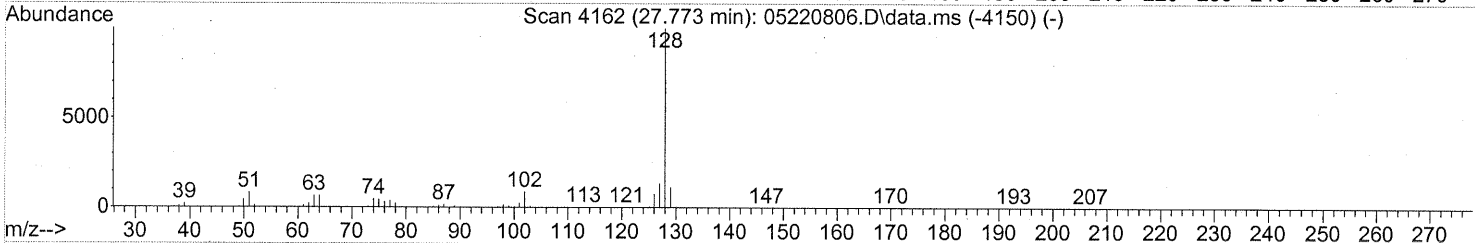
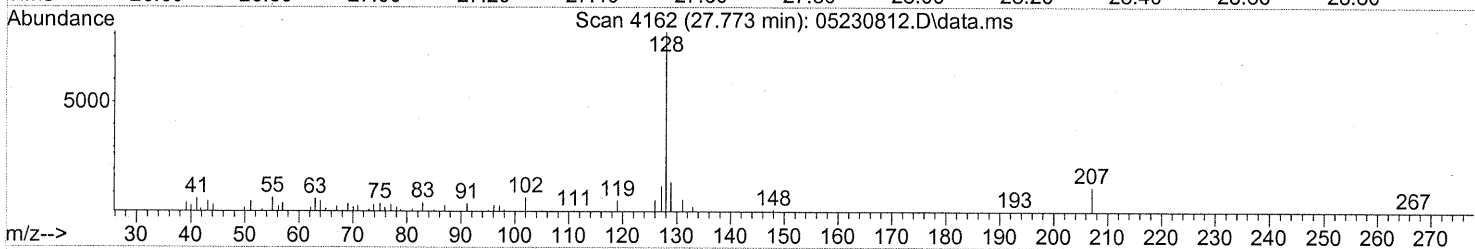
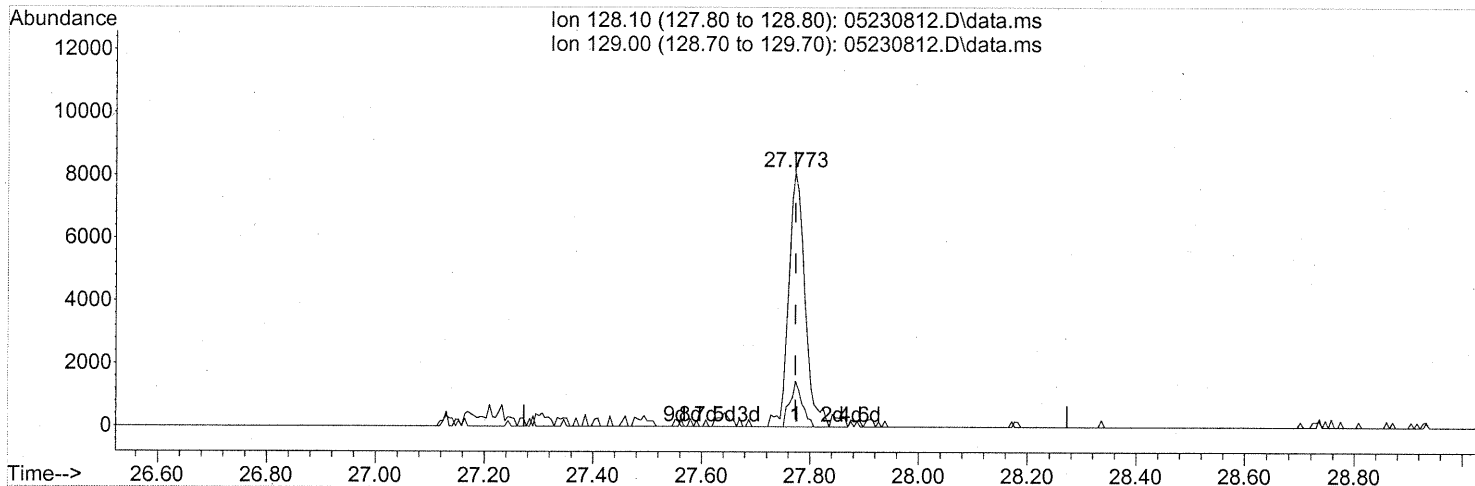
response 9764

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230812.D\data.ms

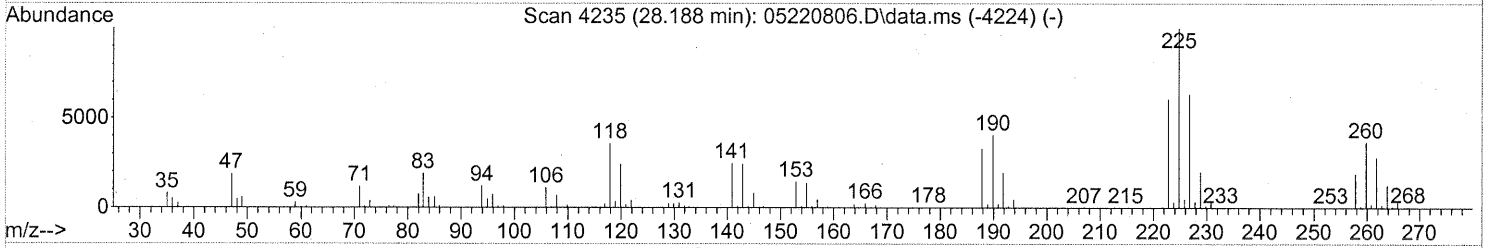
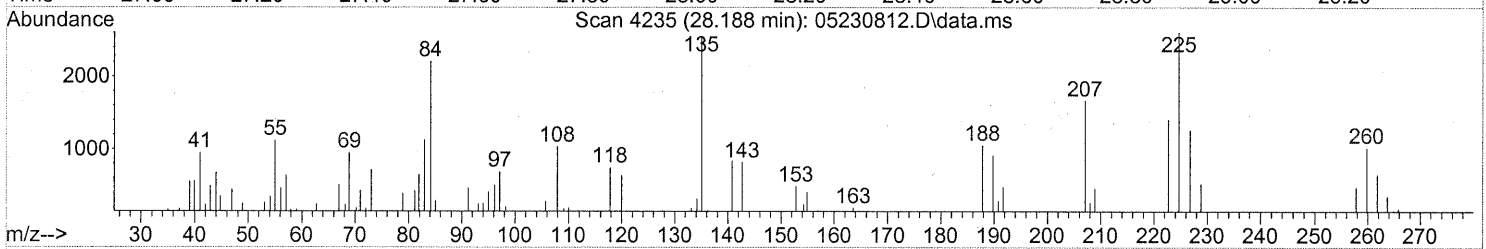
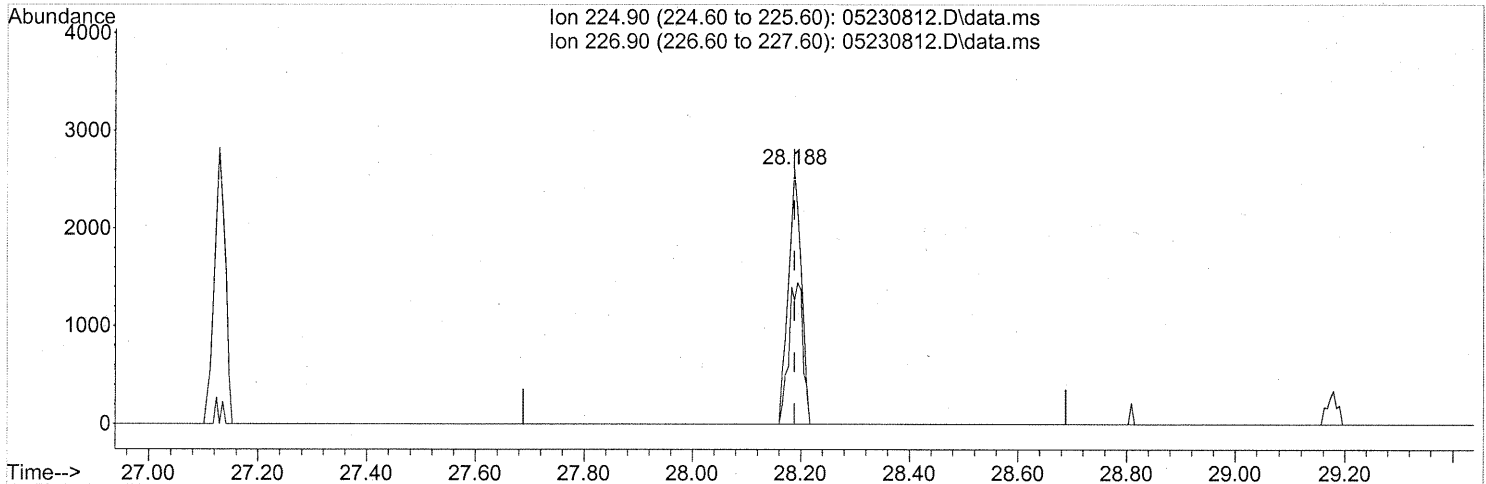
(95) Naphthalene (T)
 27.773min (-0.000) 0.10ng
 response 16848

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 16:59:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

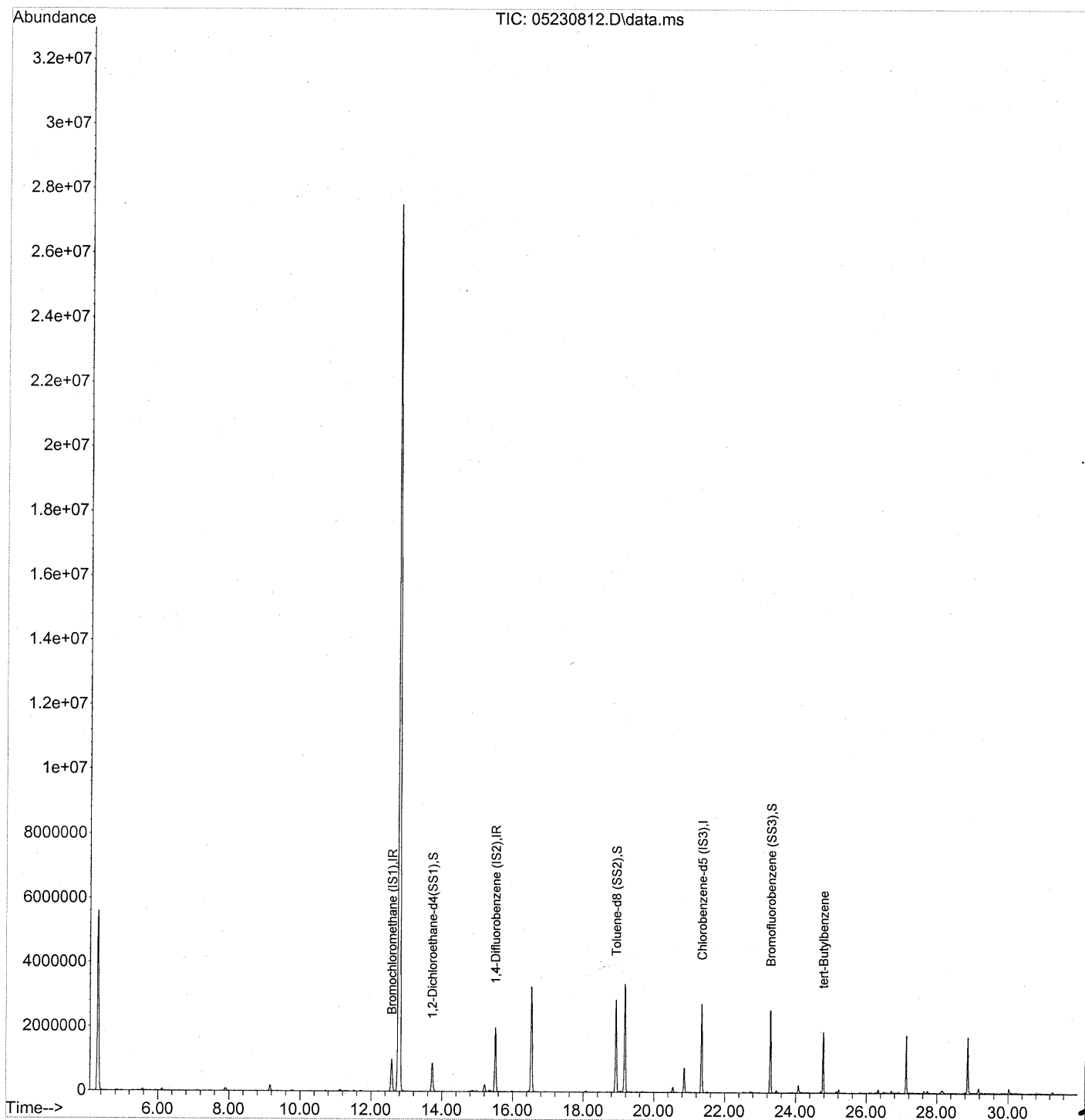
28.188min (-0.000) 0.11ng

response 4310

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	60.44
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230812.D
Acq On : 23 May 2008 16:24
Operator : RTB
Sample : P0801483-001 (100mL)
Misc : ENSR SG76B-05 (-3.0, 3.7)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 02 17:07:23 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230812.D
 Acq On : 23 May 2008 16:24
 Operator : RTB
 Sample : P0801483-001 (100mL)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

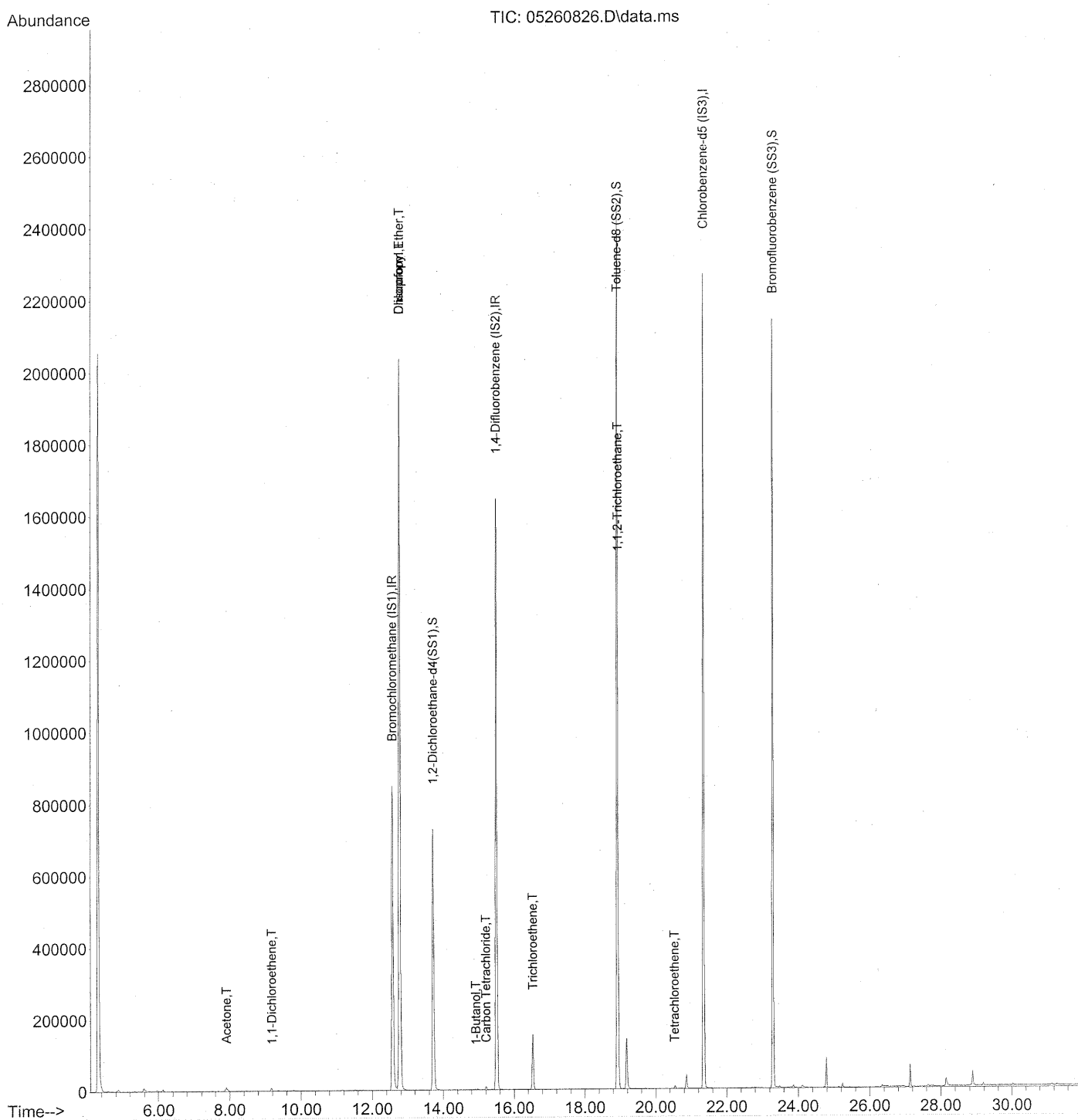
Quant Time: Jun 02 17:07:23 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	544273	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2295502	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1066690	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	880958	23.360	ng	-0.02
Spiked Amount	25.000					
				Recovery	=	93.44%
5) Toluene-d8 (SS2)	18.93	98	2390490	24.953	ng	-0.01
Spiked Amount	25.000					
				Recovery	=	99.80%
6) Bromofluorobenzene (SS3)	23.29	174	969005	24.874	ng	0.00
Spiked Amount	25.000					
				Recovery	=	99.48%
Target Compounds						
7) tert-Butylbenzene	24.78	119	37200	0.297 ng	IR	Qvalue 98
8) n-Butylbenzene	25.89	91	2429	N.D.		

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

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260826.D
Acq On : 27 May 2008 6:39
Operator : WA
Sample : P0801483-001 Dil (10ml)
Misc : ENSR SG76B-05 (-3.0, 3.7)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 14:25:35 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260826.D
 Acq On : 27 May 2008 6:39
 Operator : WA
 Sample : P0801483-001 Dil (10ml)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 14:25:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	448384	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.51	114	1916566	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	879323	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	747544	24.061	ng	-0.01
Spiked Amount	25.000		Recovery	=	96.24%	✓
57) Toluene-d8 (SS2)	18.92	98	2002254	25.354	ng	0.00
Spiked Amount	25.000		Recovery	=	101.40%	✓
73) Bromofluorobenzene (SS3)	23.29	174	800449	24.925	ng	0.00
Spiked Amount	25.000		Recovery	=	99.72%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	1253	N.D.		
3) Dichlorodifluoromethane	5.00	85	734	N.D.		
4) Chloromethane	5.32	50	66	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.15	45	838	N.D.		
11) Acetonitrile	7.48	41	2458	N.D.		
12) Acrolein	7.68	56	436	N.D.		
13) Acetone	7.91	58	7244	0.300	ng	# 81
14) Trichlorofluoromethane	8.16	101	60	N.D.		
15) Isopropanol	8.36	45	189	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.18	96	4632	0.188	ng	# 1
18) tert-Butanol	9.35	59	89	N.D.		
19) Methylene Chloride	9.36	84	963	N.D.		
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	5027	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	51	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.72	72	106	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.77	87	216979	10.051	ng	# 1
30) Ethyl Acetate	12.75	61	56	N.D.		
31) n-Hexane	12.70	57	108	N.D.		

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260826.D
 Acq On : 27 May 2008 6:39
 Operator : WA
 Sample : P0801483-001 Dil (10ml)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 14:25:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.77	83	2137495	52.278 ng		99
34) Tetrahydrofuran	13.41	72	57	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.76	62	67	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.92	56	2181	0.083 ng	#	72
41) Benzene	14.97	78	2266	N.D.		
42) Carbon Tetrachloride	15.21	117	7276	0.188 ng		99
43) Cyclohexane	15.51	84	1287	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.45	83	358	N.D.		
47) Trichloroethene	16.53	130	70510	2.290 ng		97
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	439	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	176683	7.125 ng	#	8
58) Toluene	19.06	91	2130	N.D.		
59) 2-Hexanone	19.32	43	67	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.24	43	54	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.53	166	2988	0.094 ng		85
65) Chlorobenzene	21.41	112	101	N.D.		
66) Ethylbenzene	21.88	91	168	N.D.		
67) m- & p-Xylene	22.09	91	707	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.71	91	737	N.D.		
71) n-Nonane	22.98	43	73	N.D.		
72) 1,1,2,2-Tetrachloroethane	23.06	83	52	N.D.		
74) Cumene	23.47	105	68	N.D.		
75) alpha-Pinene	23.88	93	71	N.D.		
76) n-Propylbenzene	24.11	91	59	N.D.		
77) 3-Ethyltoluene	24.23	105	80	N.D.		
78) 4-Ethyltoluene	24.27	105	117	N.D.		
79) 1,3,5-Trimethylbenzene	24.27	105	117	N.D.		

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260826.D
 Acq On : 27 May 2008 6:39
 Operator : WA
 Sample : P0801483-001 Dil (10ml)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 14:25:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

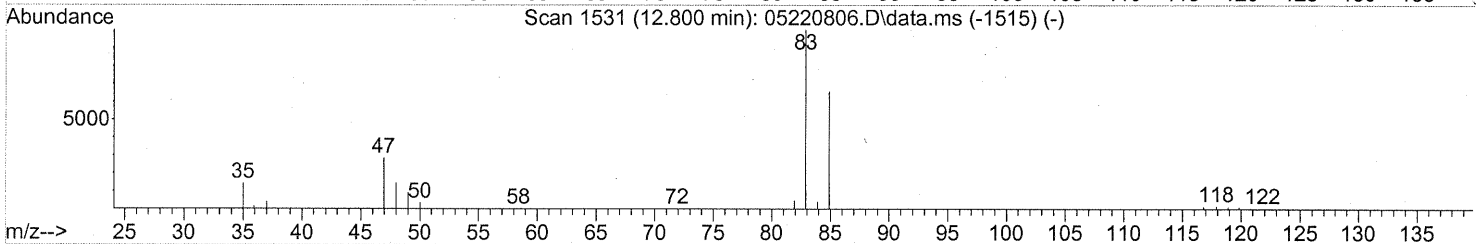
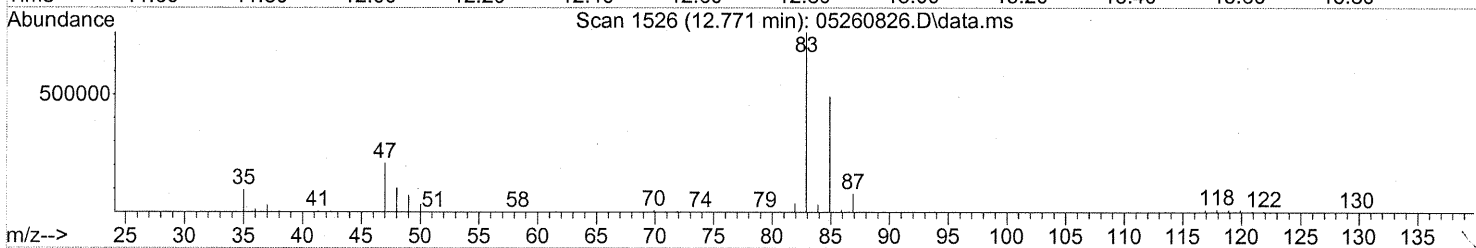
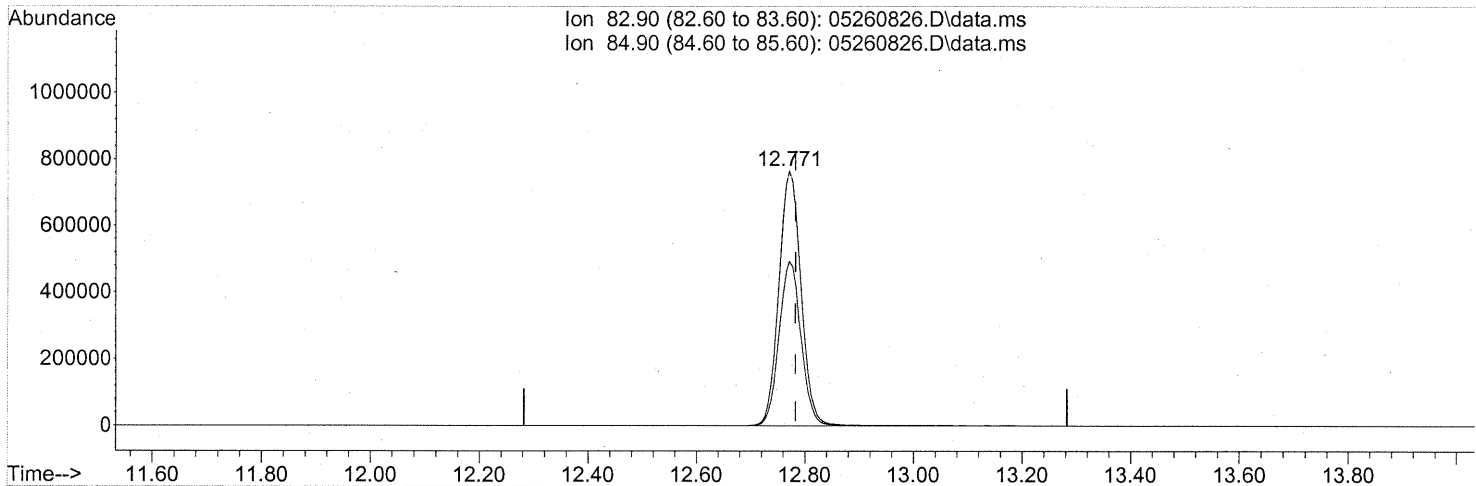
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.79	118	846		N.D.	
81) 2-Ethyltoluene	24.78	105	346		N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	348		N.D.	
83) n-Decane	24.99	57	179		N.D.	
84) Benzyl Chloride	0.00	91	0		N.D.	
85) 1,3-Dichlorobenzene	25.09	146	69		N.D.	
86) 1,4-Dichlorobenzene	25.16	146	622		N.D.	
87) sec-Butylbenzene	24.88	105	348		N.D.	
88) p-Isopropyltoluene	0.00	119	0		N.D.	
89) 1,2,3-Trimethylbenzene	0.00	105	0		N.D.	
90) 1,2-Dichlorobenzene	25.16	146	622		N.D.	
91) d-Limonene	25.76	68	62		N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.50	57	671		N.D.	
94) 1,2,4-Trichlorobenzene	27.63	180	345		N.D.	
95) Naphthalene	27.77	128	3554		N.D.	
96) n-Dodecane	27.73	57	796		N.D.	
97) Hexachloro-1,3-butadiene	28.19	225	55		N.D.	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260826.D
 Acq On : 27 May 2008 6:39
 Operator : WA
 Sample : P0801483-001 Dil (10ml)
 Misc : ENSR SG76B-05 (-3.0, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 14:25:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260826.D\data.ms

(32) Chloroform (T)
 12.771min (-0.011) 52.28ng
 response 2137495

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.99
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00379

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/26/08
Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	17	1.7	0.45	3.3	0.33	J
74-87-3	Chloromethane	ND	3.3	1.7	ND	1.6	0.80	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	17	1.7	ND	2.4	0.24	
75-01-4	Vinyl Chloride	ND	3.3	1.7	ND	1.3	0.65	
74-83-9	Bromomethane	ND	3.3	1.7	ND	0.85	0.43	
75-00-3	Chloroethane	ND	3.3	1.7	ND	1.3	0.63	
64-17-5	Ethanol	16	170	1.7	8.3	88	0.88	J, B
67-64-1	Acetone	19	170	2.4	7.8	69	1.0	J, B
75-69-4	Trichlorofluoromethane	ND	3.3	1.7	ND	0.59	0.29	
107-13-1	Acrylonitrile	ND	17	2.3	ND	7.6	1.1	
75-35-4	1,1-Dichloroethene	4.5	3.3	1.7	1.1	0.83	0.42	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	17	2.4	ND	5.4	0.81	
75-09-2	Methylene Chloride	10	17	1.7	3.0	4.8	0.48	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	3.3	1.7	ND	1.1	0.53	
76-13-1	Trichlorotrifluoroethane	ND	3.3	1.8	ND	0.43	0.24	
75-15-0	Carbon Disulfide	ND	17	4.0	ND	5.3	1.3	
156-60-5	trans-1,2-Dichloroethene	ND	3.3	1.7	ND	0.83	0.42	
75-34-3	1,1-Dichloroethane	ND	3.3	1.7	ND	0.82	0.41	
1634-04-4	Methyl tert-Butyl Ether	ND	3.3	1.7	ND	0.92	0.46	
108-05-4	Vinyl Acetate	ND	170	5.3	ND	47	1.5	
78-93-3	2-Butanone (MEK)	5.0	17	1.7	1.7	5.6	0.56	J
156-59-2	cis-1,2-Dichloroethene	ND	3.3	1.7	ND	0.83	0.42	
108-20-3	Diisopropyl Ether	ND	17	1.9	ND	3.9	0.47	
67-66-3	Chloroform	7,200	3.3	1.9	1,500	0.68	0.40	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: GA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00379

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 5/23/08 & 5/26/08
Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	17	1.7	ND	3.9	0.40	
107-06-2	1,2-Dichloroethane	ND	3.3	1.7	ND	0.82	0.41	
71-55-6	1,1,1-Trichloroethane	ND	3.3	1.7	ND	0.61	0.30	
71-43-2	Benzene	3.7	3.3	1.7	1.2	1.0	0.52	
56-23-5	Carbon Tetrachloride	7.4	3.3	1.7	1.2	0.52	0.26	
994-05-8	tert-Amyl Methyl Ether	ND	17	1.7	ND	3.9	0.39	
78-87-5	1,2-Dichloropropane	ND	3.3	1.7	ND	0.71	0.36	
75-27-4	Bromodichloromethane	33	3.3	1.7	4.9	0.49	0.25	
79-01-6	Trichloroethene	72	3.3	1.7	13	0.61	0.31	
123-91-1	1,4-Dioxane	ND	17	2.0	ND	4.6	0.56	
80-62-6	Methyl Methacrylate	ND	17	2.5	ND	4.0	0.60	
142-82-5	n-Heptane	ND	17	2.1	ND	4.0	0.52	
10061-01-5	cis-1,3-Dichloropropene	ND	17	1.7	ND	3.6	0.38	
108-10-1	4-Methyl-2-pentanone	ND	17	1.8	ND	4.0	0.45	
10061-02-6	trans-1,3-Dichloropropene	ND	17	2.1	ND	3.6	0.46	
79-00-5	1,1,2-Trichloroethane	ND	3.3	1.7	ND	0.61	0.30	
108-88-3	Toluene	3.6	17	1.7	0.96	4.4	0.44	J
591-78-6	2-Hexanone	ND	17	2.5	ND	4.0	0.61	
124-48-1	Dibromochloromethane	19	3.3	2.2	2.2	0.39	0.26	
106-93-4	1,2-Dibromoethane	ND	3.3	1.8	ND	0.43	0.23	
111-65-9	n-Octane	ND	17	1.7	ND	3.5	0.35	
127-18-4	Tetrachloroethene	100	3.3	1.7	15	0.49	0.24	
108-90-7	Chlorobenzene	ND	3.3	1.7	ND	0.72	0.37	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/1/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00379

Date Collected: 5/15/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08 & 5/26/08
 Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	17	2.0	ND	3.8	0.47	
179601-23-1	m,p-Xylenes	5.9	17	4.3	1.4	3.8	0.99	J
75-25-2	Bromoform	25	17	2.5	2.4	1.6	0.24	
100-42-5	Styrene	ND	17	2.5	ND	3.9	0.59	
95-47-6	o-Xylene	2.9	17	2.1	0.67	3.8	0.48	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.3	2.1	ND	0.48	0.31	
98-82-8	Cumene	ND	17	1.8	ND	3.4	0.38	
103-65-1	n-Propylbenzene	ND	17	1.7	ND	3.4	0.35	
622-96-8	4-Ethyltoluene	ND	17	1.9	ND	3.4	0.38	
108-67-8	1,3,5-Trimethylbenzene	ND	17	2.0	ND	3.4	0.40	
98-83-9	alpha-Methylstyrene	ND	17	2.4	ND	3.4	0.50	
95-63-6	1,2,4-Trimethylbenzene	ND	17	2.3	ND	3.4	0.46	
100-44-7	Benzyl Chloride	ND	3.3	2.8	ND	0.64	0.55	
541-73-1	1,3-Dichlorobenzene	ND	3.3	2.0	ND	0.55	0.34	
106-46-7	1,4-Dichlorobenzene	3.0	3.3	1.8	0.50	0.55	0.31	J
135-98-8	sec-Butylbenzene	ND	17	1.9	ND	3.0	0.35	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	17	2.1	ND	3.0	0.39	
95-50-1	1,2-Dichlorobenzene	ND	3.3	2.2	ND	0.55	0.36	
96-12-8	1,2-Dibromo-3-chloropropane	ND	17	2.5	ND	1.7	0.26	
120-82-1	1,2,4-Trichlorobenzene	ND	3.3	2.5	ND	0.44	0.34	
91-20-3	Naphthalene	ND	6.6	2.4	ND	1.3	0.47	
87-68-3	Hexachlorobutadiene	ND	3.3	3.0	ND	0.31	0.28	
98-06-6	tert-Butylbenzene	ND	6.6	1.7	ND	1.2	0.30	
104-51-8	n-Butylbenzene	ND	6.6	1.7	ND	1.2	0.30	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

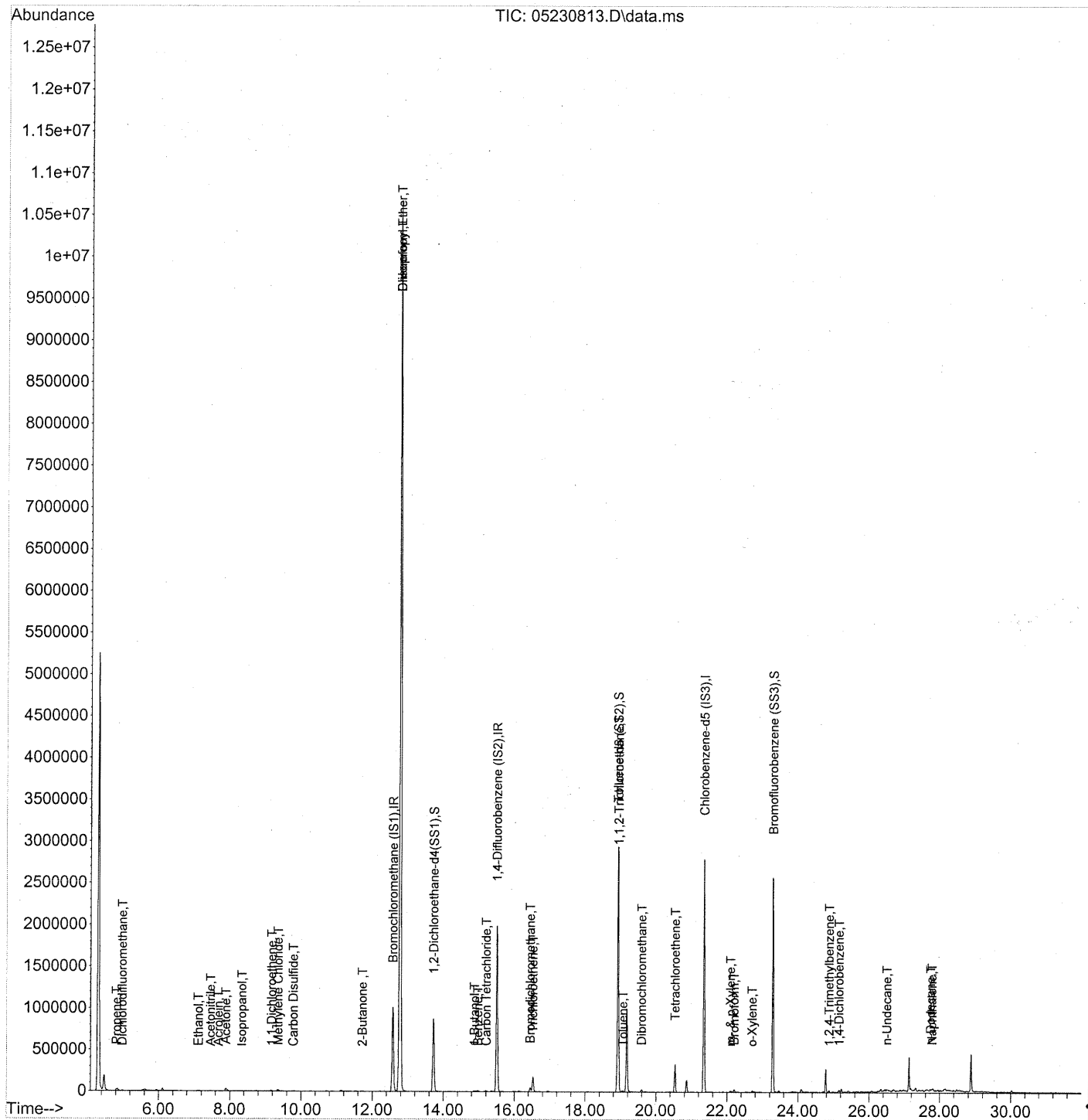
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5) ✓
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:32:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:32:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	530786	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2293187	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1081463	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	905518	24.621	ng	0.00
Spiked Amount	25.000			Recovery =	98.48%	✓
57) Toluene-d8 (SS2)	18.92	98	2430775	25.027	ng	0.00
Spiked Amount	25.000			Recovery =	100.12%	✓
73) Bromofluorobenzene (SS3)	23.29	174	966947	24.482	ng	0.00
Spiked Amount	25.000			Recovery =	97.92%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.82	42	8130	0.194	ng	# 39
3) Dichlorodifluoromethane	4.98	85	5278	0.068	ng	95
4) Chloromethane	5.31	50	1822	N.D.	✓	
5) Freon 114	0.00	135	0	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	0.00	54	0	N.D.	✓	
8) Bromomethane	6.52	94	502	N.D.	✓	
9) Chloroethane	6.84	64	90	N.D.	✓	
10) Ethanol	7.11	45	13189m	0.473	ng	
11) Acetonitrile	7.46	41	6360	0.079	ng	# 26
12) Acrolein	7.68	56	1191	0.060	ng	97
13) Acetone	7.89	58	16026	0.561	ng	# 68
14) Trichlorofluoromethane	8.15	101	2420	N.D.	✓	
15) Isopropanol	8.34	45	4705	0.052	ng	88
16) Acrylonitrile	8.67	53	54	N.D.	✓	
17) 1,1-Dichloroethene	9.17	96	3953	0.136	ng	90
18) tert-Butanol	9.28	59	1472	N.D.	✓	
19) Methylene Chloride	9.36	84	10024	0.314	ng	83
20) Allyl Chloride	9.44	41	390	N.D.	✓	
21) Trichlorotrifluoroethane	9.79	151	352	N.D.	✓	
22) Carbon Disulfide	9.78	76	7715	0.064	ng	84
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
24) 1,1-Dichloroethane	11.08	63	1486	N.D.	✓	
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	✓	
26) Vinyl Acetate	11.31	86	72	N.D.	✓	
27) 2-Butanone	11.72	72	3166	0.152	ng	# 87
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	1246083	48.763	ng	MR # 1
30) Ethyl Acetate	0.00	61	0	N.D.	✓	
31) n-Hexane	12.68	57	1275	N.D.	✓	

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:32:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	11343150	234.357	ng	98 <i>see p.1</i>
34) Tetrahydrofuran	13.40	72	101	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.88	62	184	N.D.	✓	
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.	✓	
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.88	56	10606	0.336	ng	98
41) Benzene	14.97	78	13398	0.112	ng	99
42) Carbon Tetrachloride	15.21	117	10389	0.225	ng	97
43) Cyclohexane	15.41	84	227	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	16.19	63	903	N.D.	✓	
46) Bromodichloromethane	16.45	83	40345	0.994	ng	97
47) Trichloroethene	16.53	130	80339	2.181	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	✓	
49) Isooctane	16.62	57	1152	N.D.		
50) Methyl Methacrylate	16.72	100	197	N.D.	✓	
51) n-Heptane	0.00	71	0	N.D.	✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.77	58	51	N.D.	✓	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.93	97	216123	7.284	ng	9 <i>MR #</i>
58) Toluene	19.07	91	14467	0.110	ng	95
59) 2-Hexanone	19.38	43	599	N.D.	✓	
60) Dibromochloromethane	19.59	129	20419	0.573	ng	100
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.20	43	91	N.D.		
63) n-Octane	20.35	57	149	N.D.	✓	
64) Tetrachloroethene	20.54	166	121275	3.104	ng	98
65) Chlorobenzene	21.40	112	1792	N.D.	✓	
66) Ethylbenzene	21.89	91	5488	N.D.	✓	
67) m- & p-Xylene	22.10	91	18135	0.179	ng	93
68) Bromoform	22.21	173	20126	0.758	ng	94
69) Styrene	22.57	104	442	N.D.	✓	
70) o-Xylene	22.71	91	9654	0.088	ng	91
71) n-Nonane	22.98	43	752	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.69	83	60	N.D.	✓	
74) Cumene	23.46	105	1159	N.D.	✓	
75) alpha-Pinene	23.96	93	726	N.D.		
76) n-Propylbenzene	24.10	91	2804	N.D.	✓	
77) 3-Ethyltoluene	24.23	105	4877	N.D.		
78) 4-Ethyltoluene	24.28	105	3797	N.D.	✓	
79) 1,3,5-Trimethylbenzene	24.36	105	2335	N.D.	✓	

RT 5/30/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:32:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

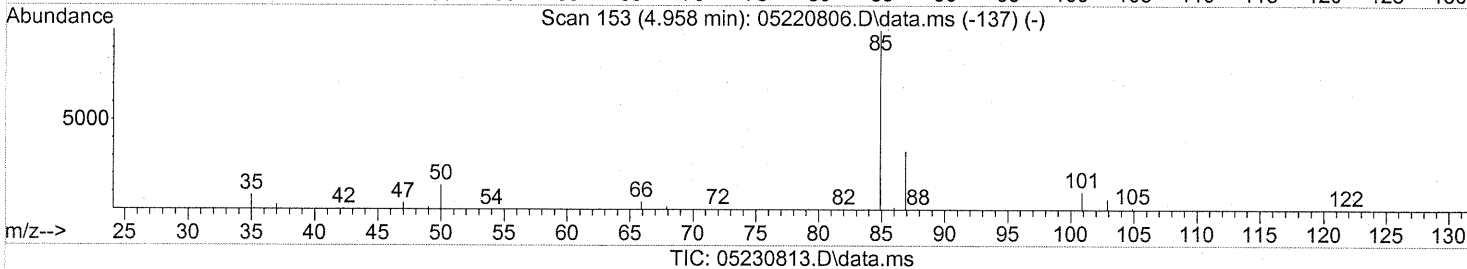
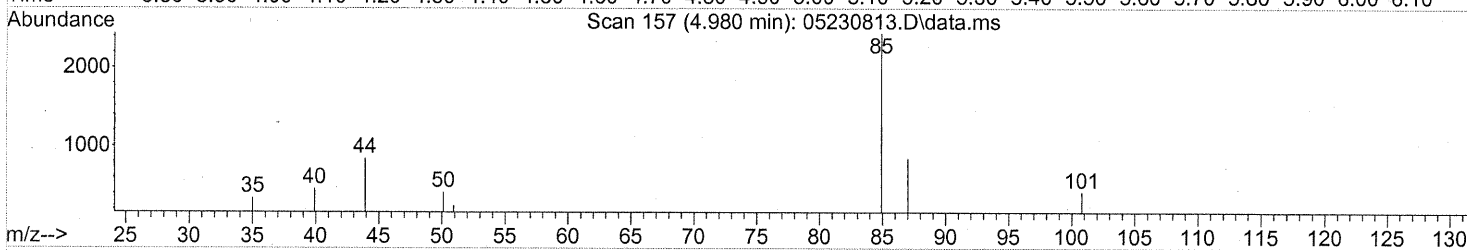
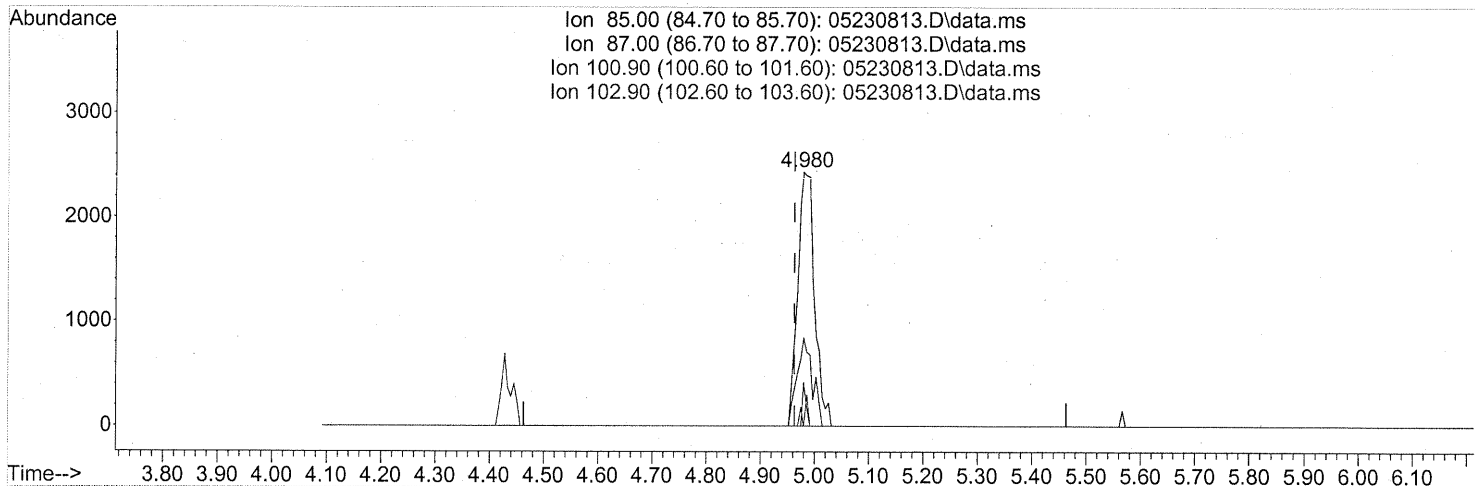
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.55	118	135	N.D. ✓	
81) 2-Ethyltoluene	24.60	105	2928	N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	8169	0.061 ng	89
83) n-Decane	24.98	57	2724	N.D.	
84) Benzyl Chloride	25.05	91	241	N.D. ✓	
85) 1,3-Dichlorobenzene	25.07	146	688	N.D. ✓	
86) 1,4-Dichlorobenzene	25.16	146	7343	0.091 ng	96
87) sec-Butylbenzene	25.21	105	416	N.D. ✓	
88) p-Isopropyltoluene	25.41	119	2061	N.D. ✓	
89) 1,2,3-Trimethylbenzene	25.41	105	3278	N.D.	
90) 1,2-Dichlorobenzene	25.57	146	1284	N.D. ✓	
91) d-Limonene	25.58	68	1759	N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D. ✓	
93) n-Undecane	26.50	57	13972	0.183 ng	77
94) 1,2,4-Trichlorobenzene	27.63	180	1557	N.D. ✓	
95) Naphthalene	27.78	128	10991	0.063 ng	97
96) n-Dodecane	27.74	57	8231	0.108 ng	87
97) Hexachloro-1,3-butadiene	28.19	225	377	N.D. ✓	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.980min (+0.017) 0.07ng

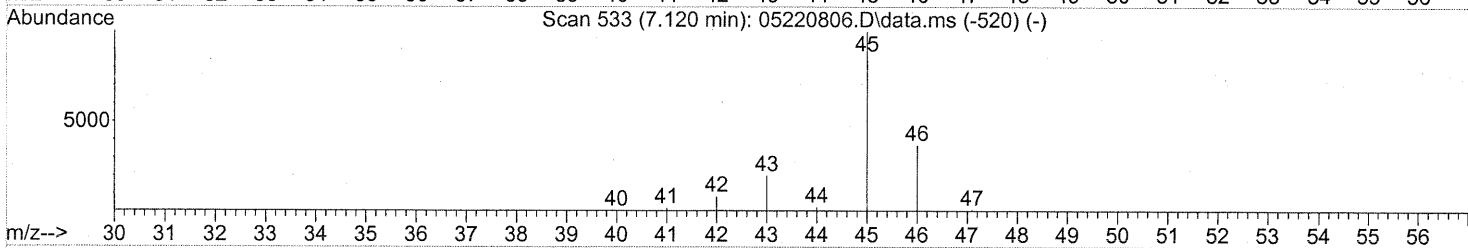
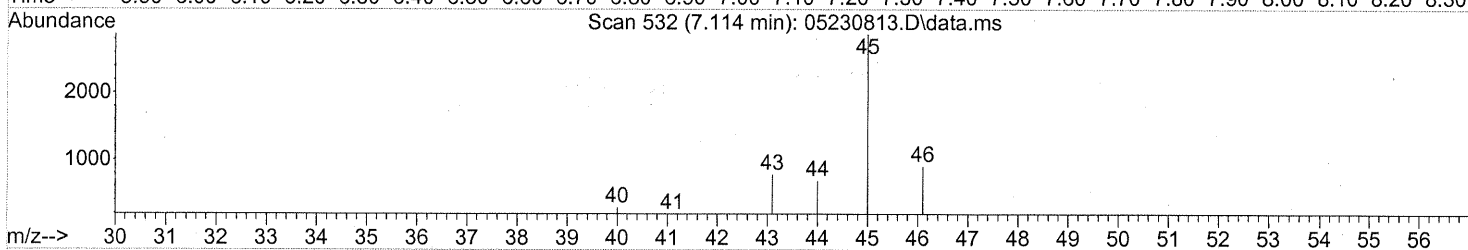
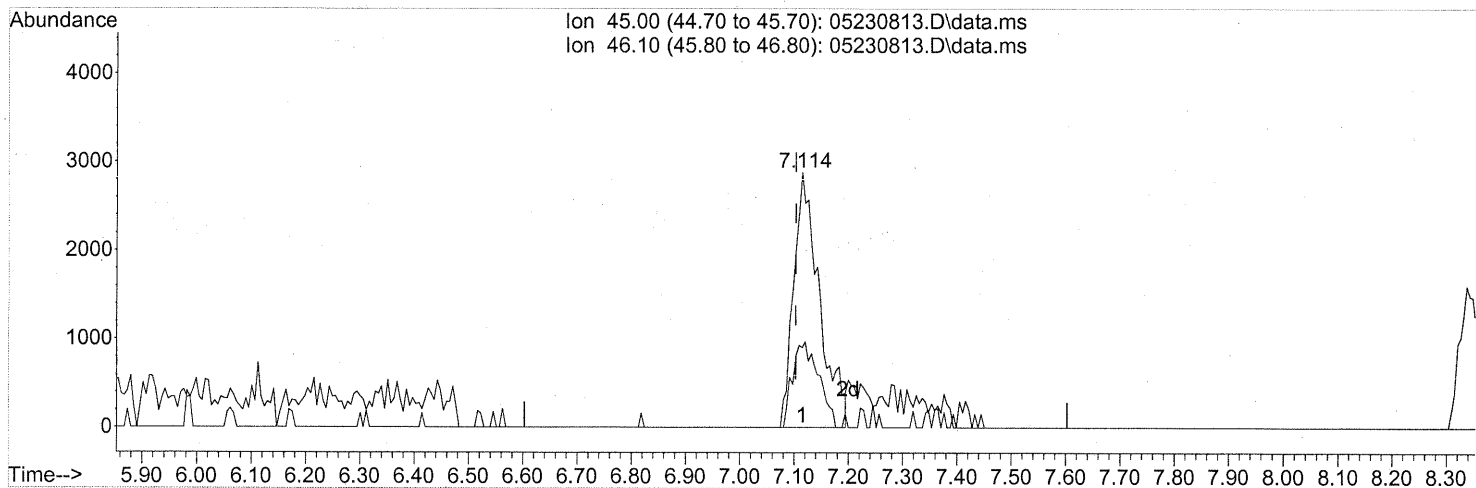
response 5278

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.38
100.90	9.30	3.73
102.90	6.00	3.05

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230813.D\data.ms

(10) Ethanol (T)

7.114min (+0.011) 0.34ng

response 9435

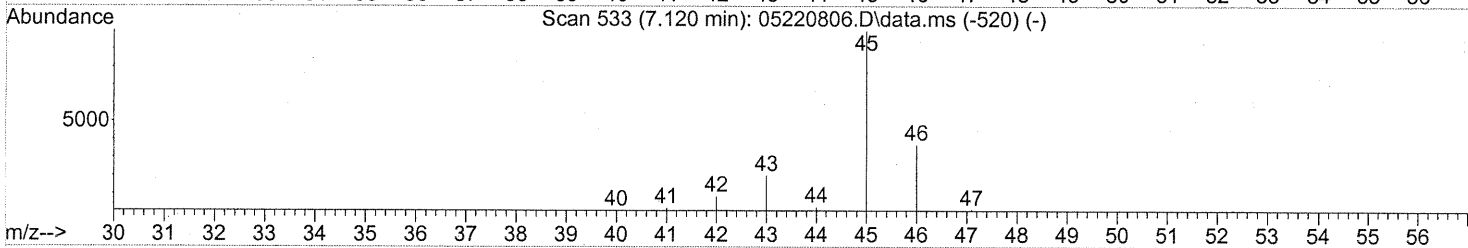
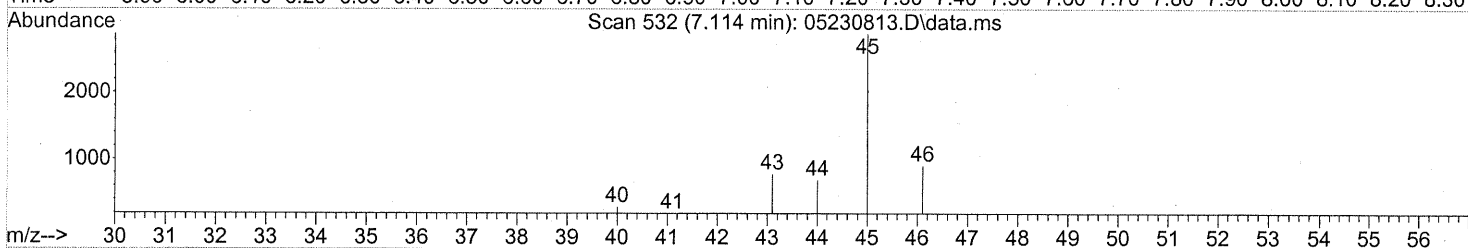
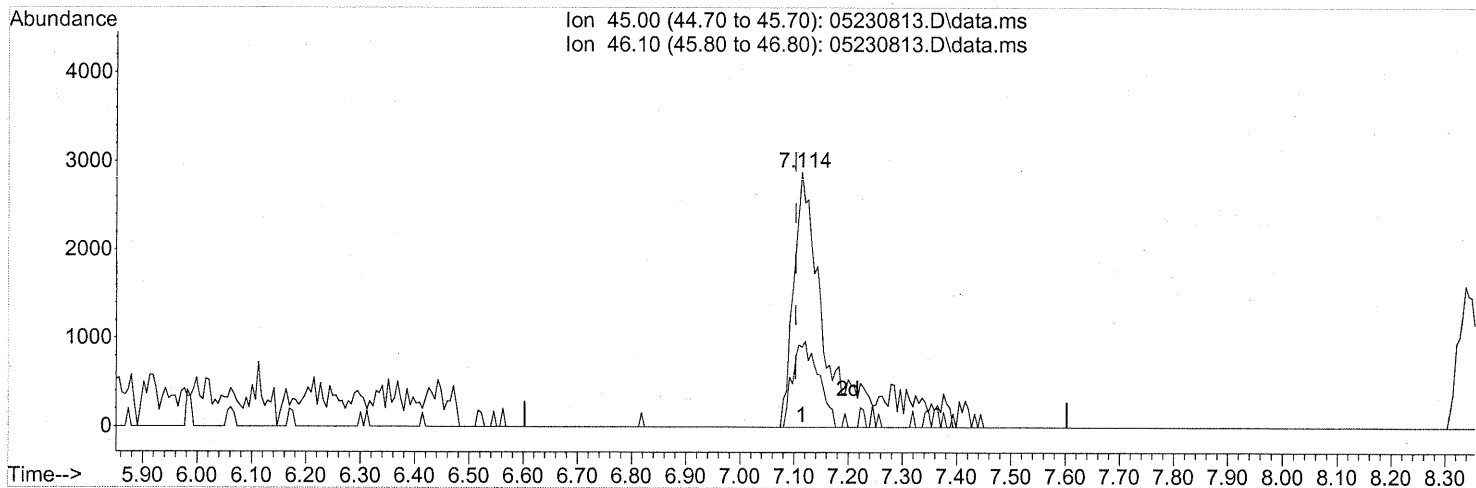
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230813.D\data.ms

(10) Ethanol (T)

7.114min (+0.011) 0.47ng m

response 13189

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	24.52
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

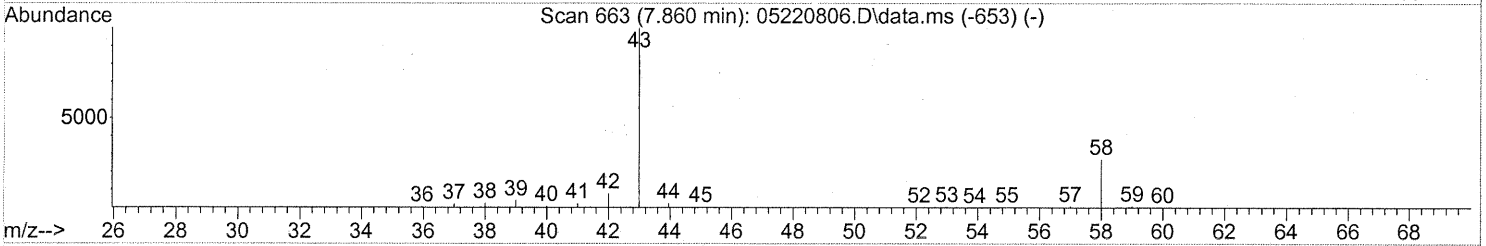
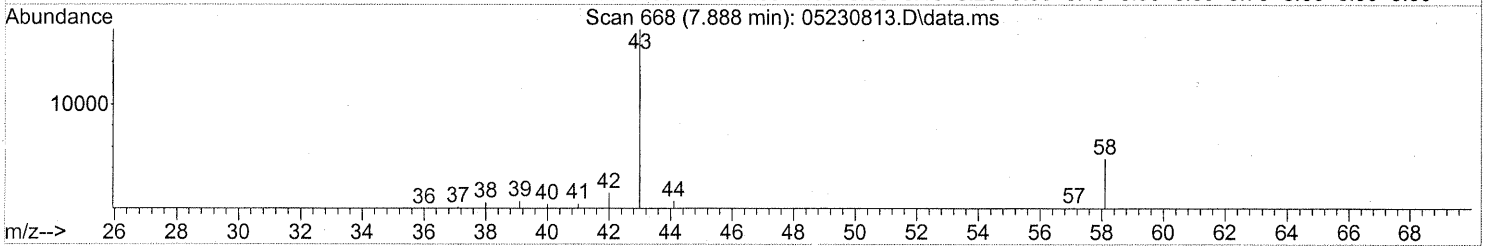
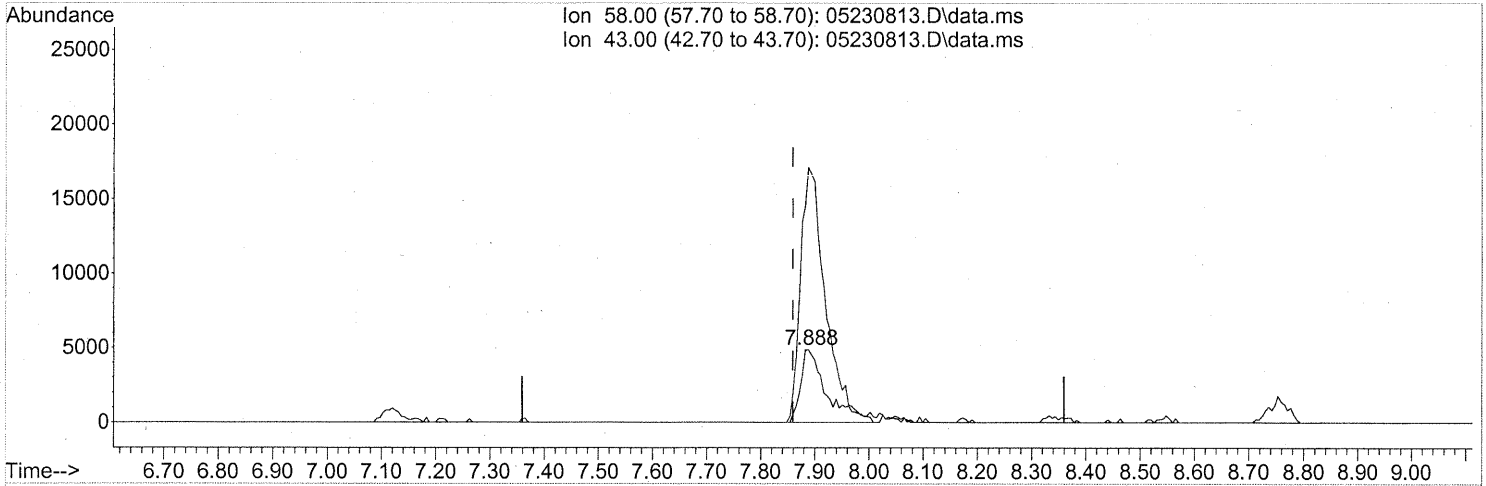
RT 5/30/08

P 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230813.D
Acq On : 23 May 2008 17:31
Operator : RTB
Sample : P0801483-002 (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05230813.D\data.ms

(13) Acetone (T)

7.888min (+0.028) 0.56ng

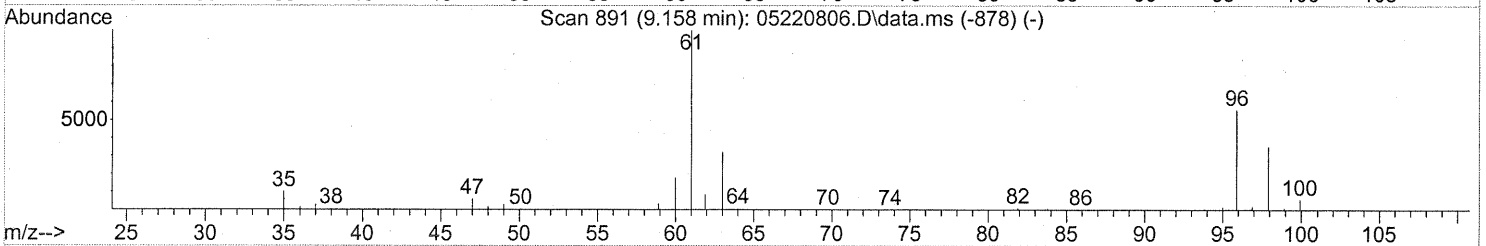
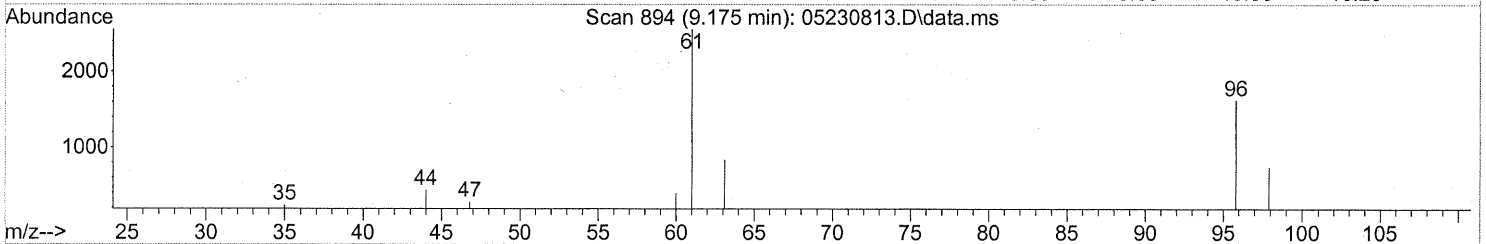
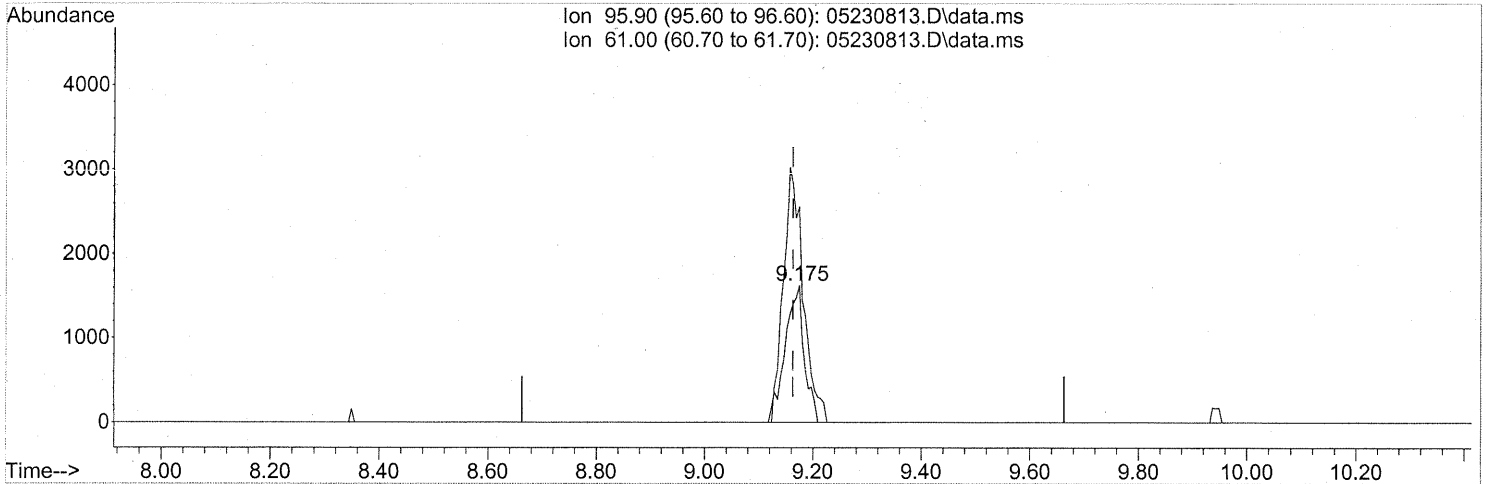
response 16026

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	342.77#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230813.D
Acq On : 23 May 2008 17:31
Operator : RTB
Sample : P0801483-002 (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05230813.D\data.ms

(17) 1,1-Dichloroethene (T)

9.175min (+0.011) 0.14ng

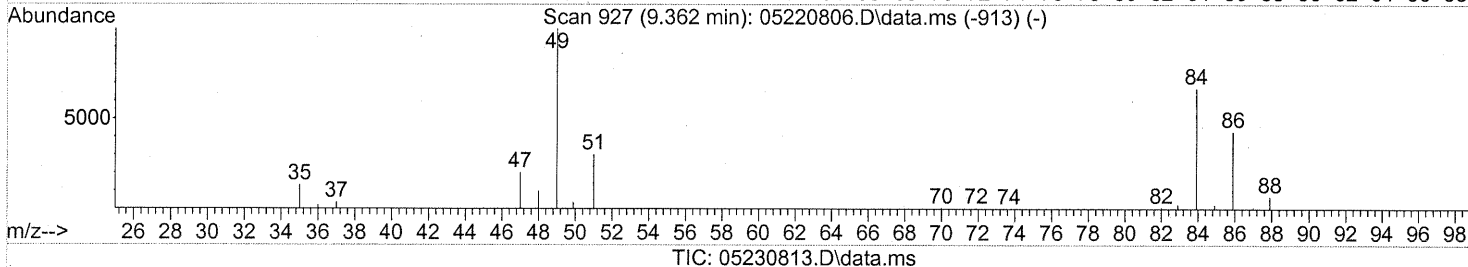
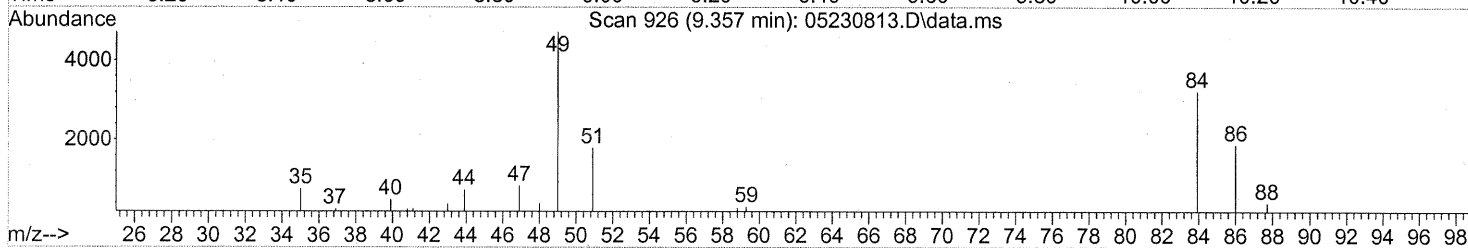
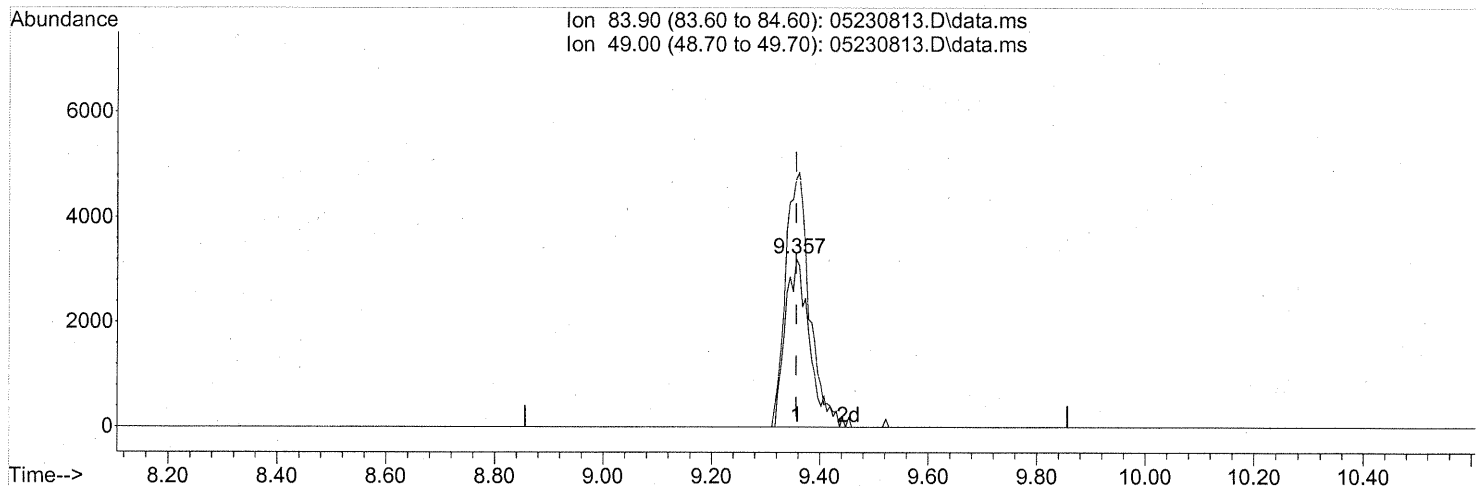
response 3953

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	194.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (-0.000) 0.31ng

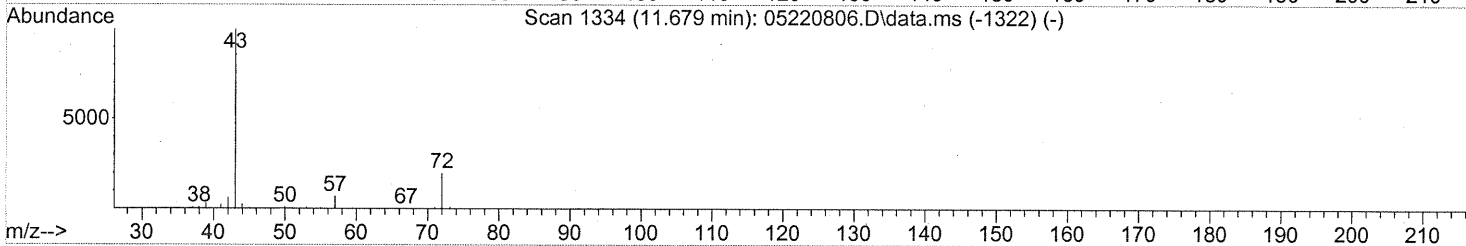
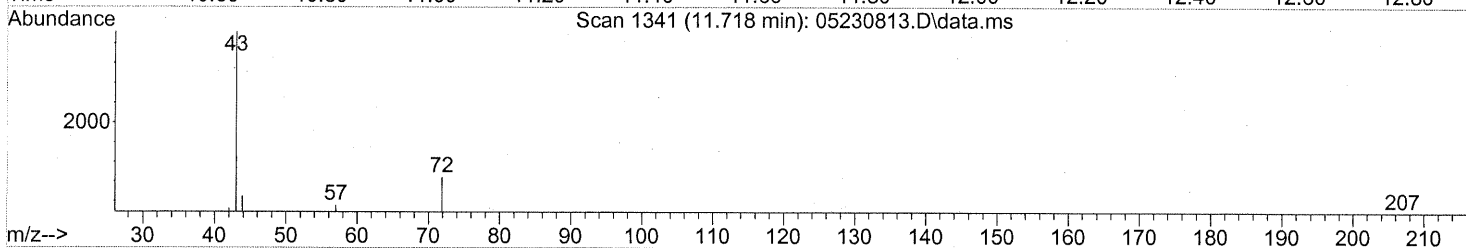
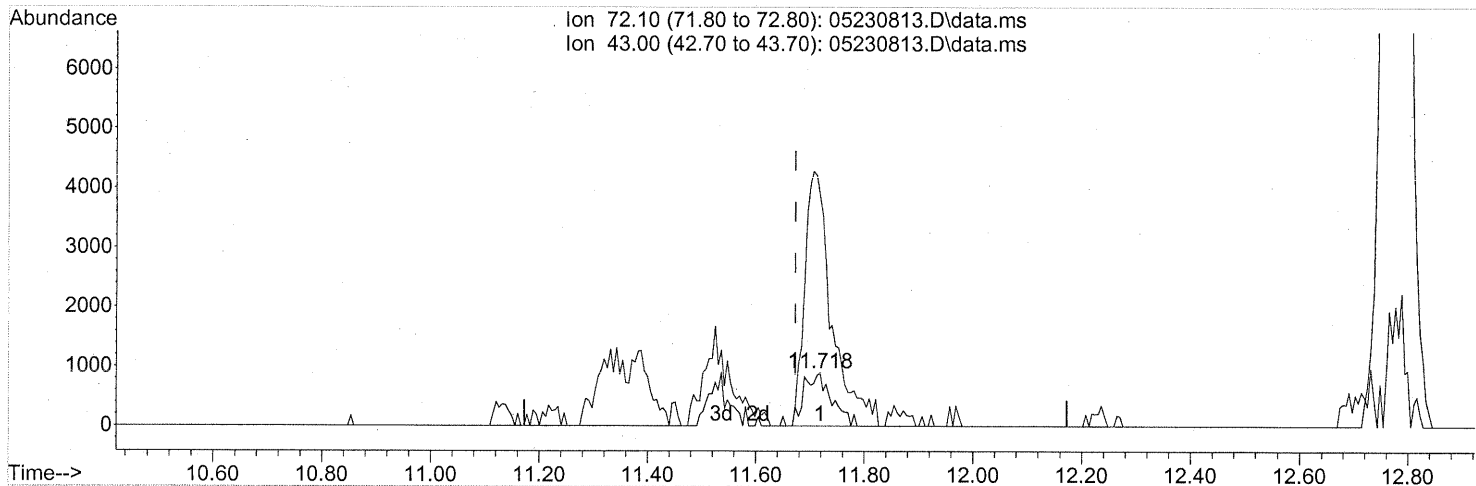
response 10024

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	150.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230813.D\data.ms

(27) 2-Butanone (T)

11.718min (+0.045) 0.15ng

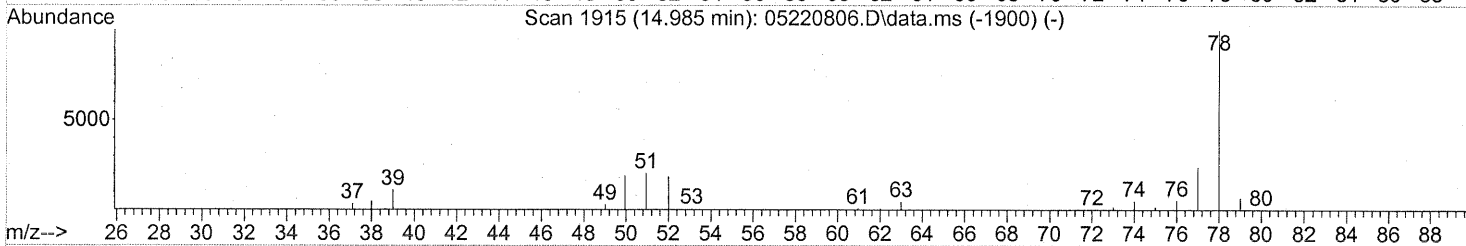
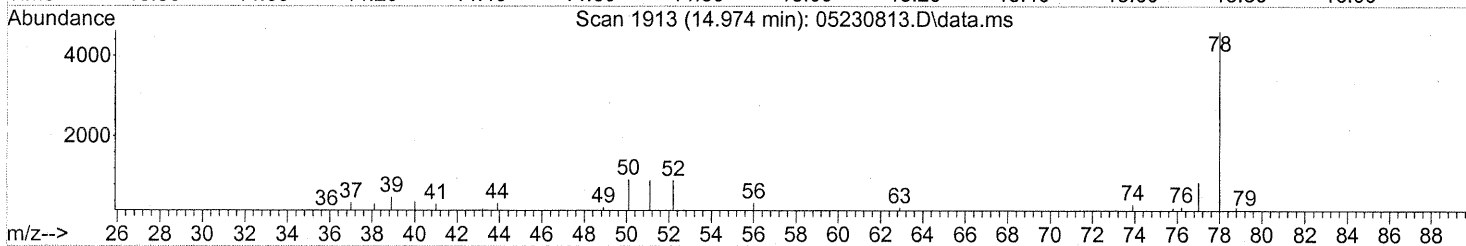
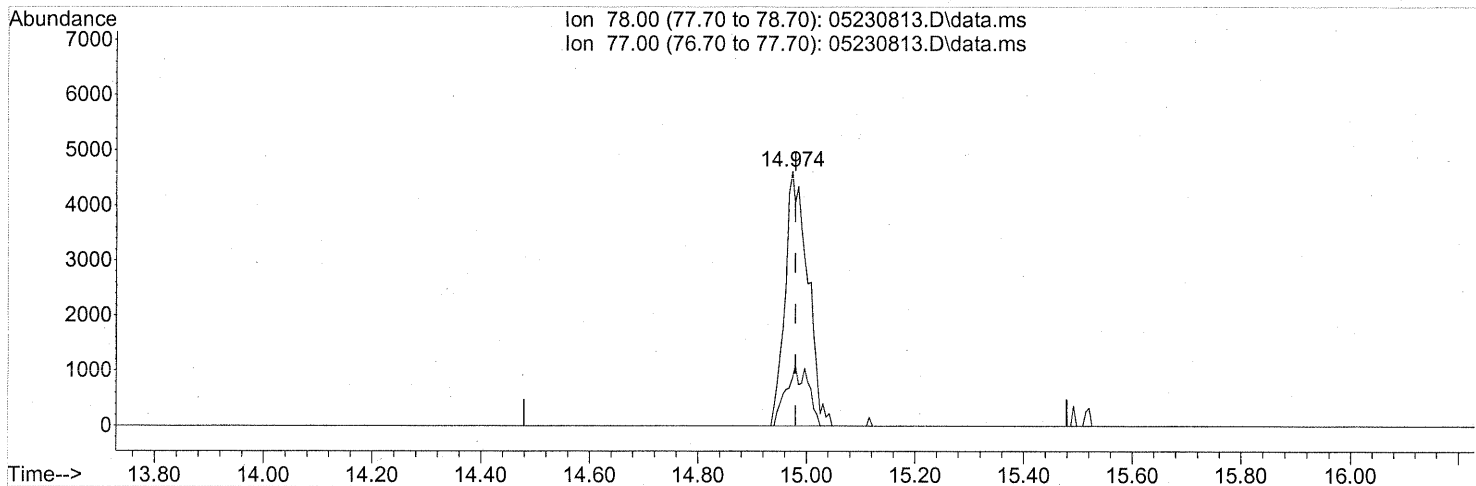
response 3166

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	470.37#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230813.D\data.ms

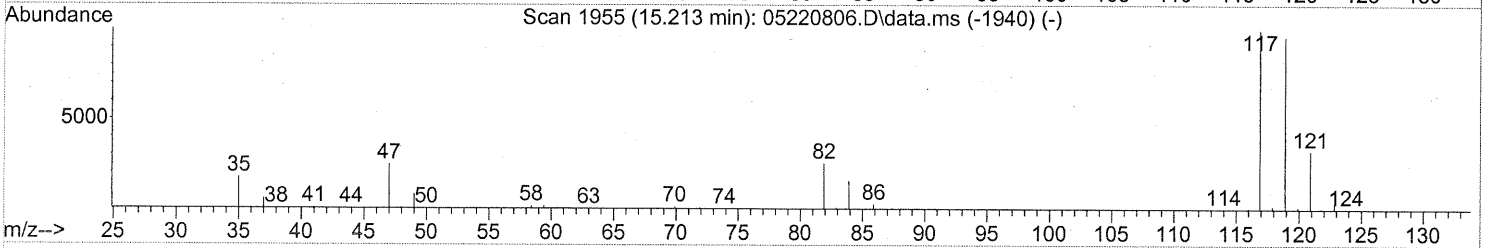
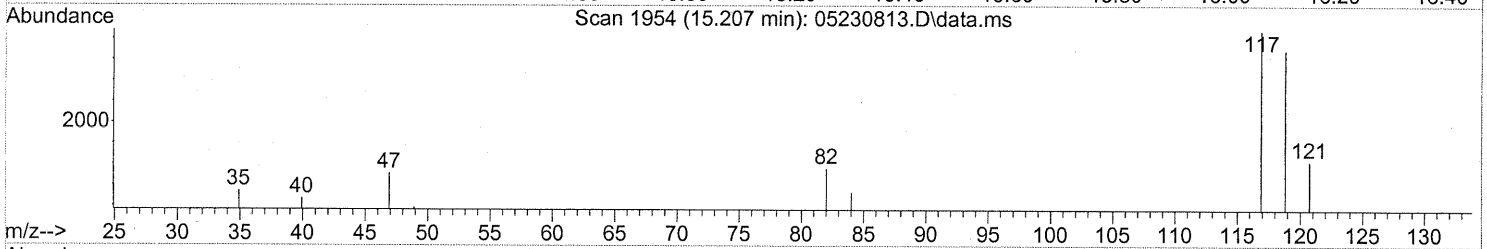
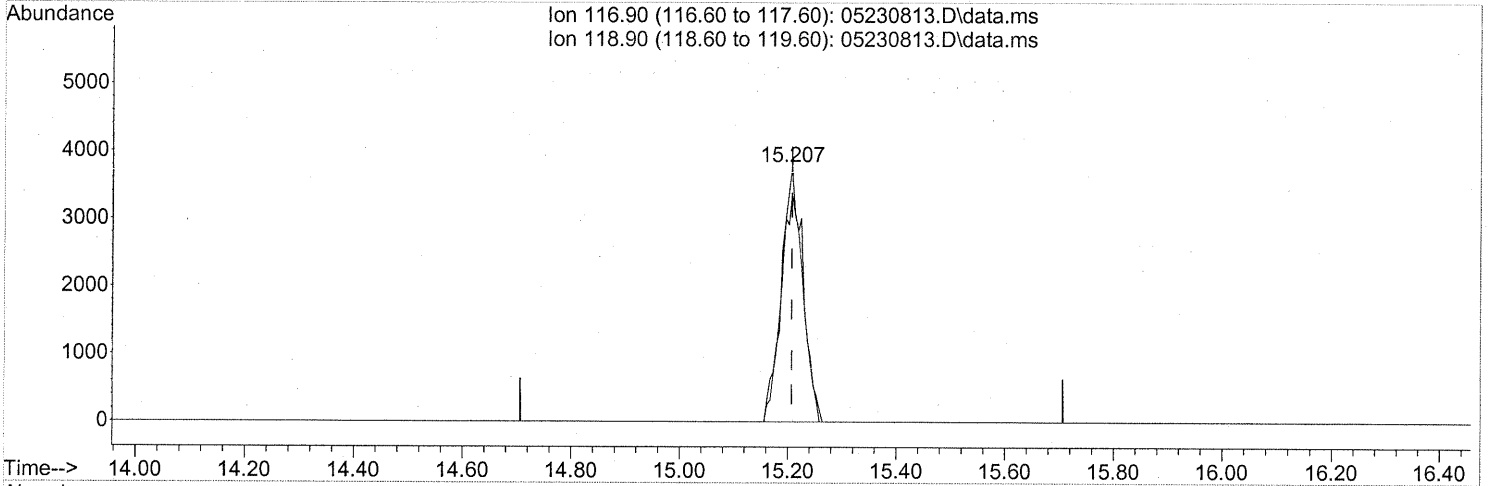
(41) Benzene (T)
 14.974min (-0.006) 0.11ng
 response 13398

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230813.D\data.ms

(42) Carbon Tetrachloride (T)

15.207min (-0.000) 0.22ng

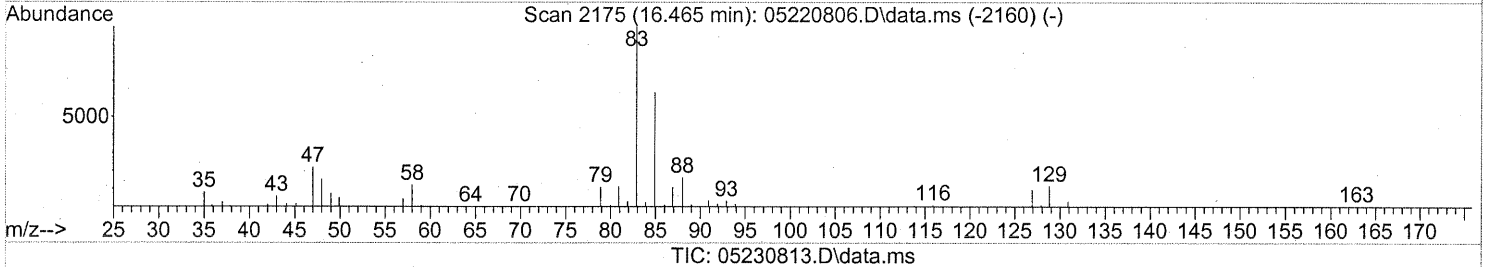
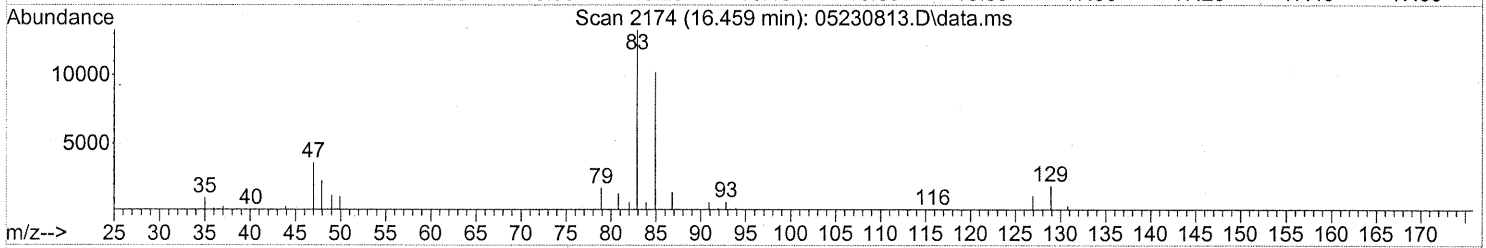
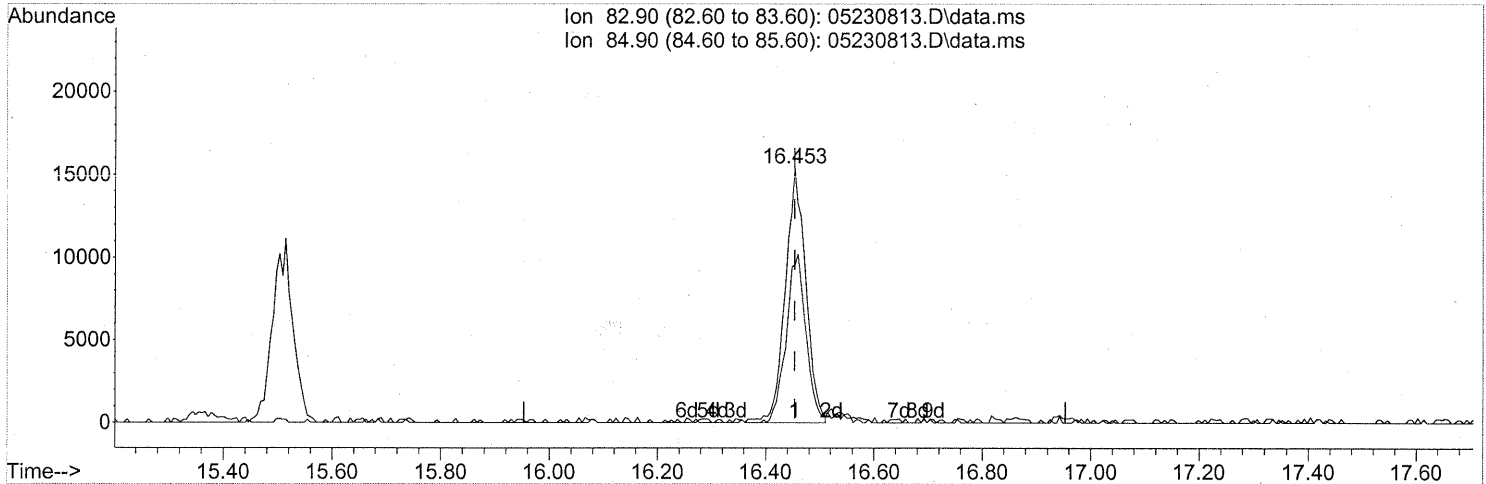
response 10389

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	93.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.453min (-0.000) 0.99ng

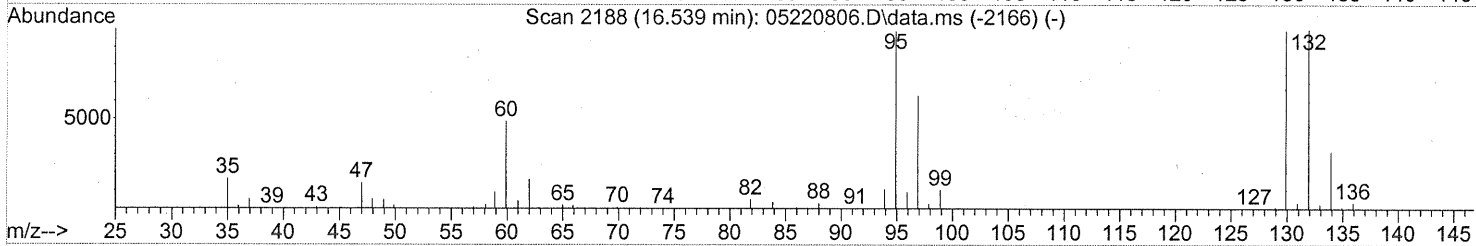
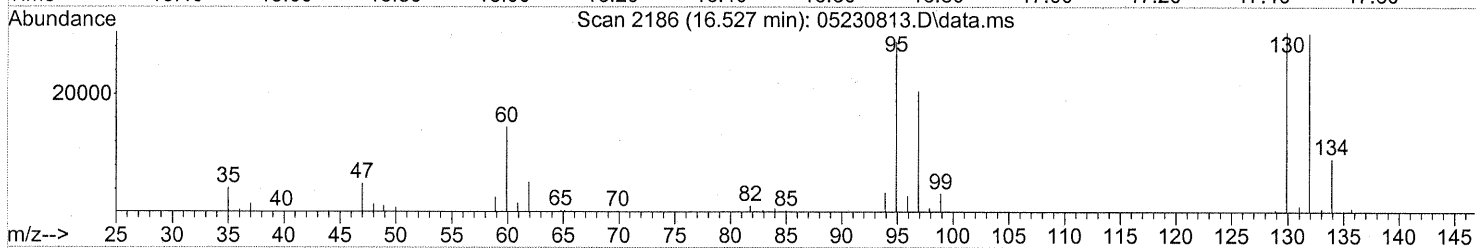
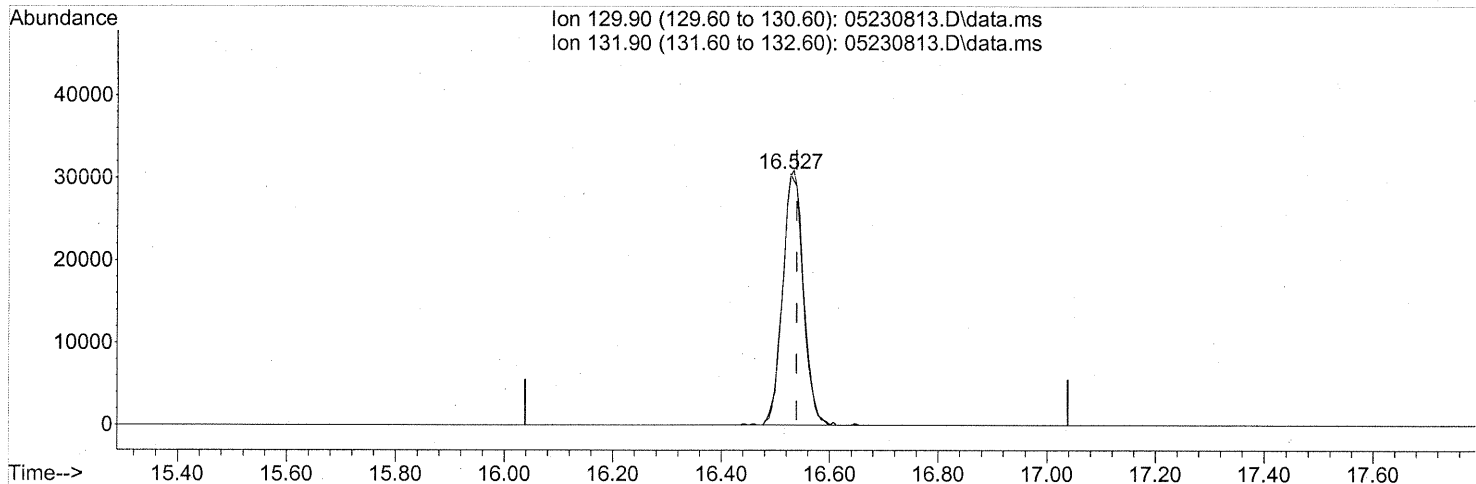
response 40345

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	65.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230813.D\data.ms

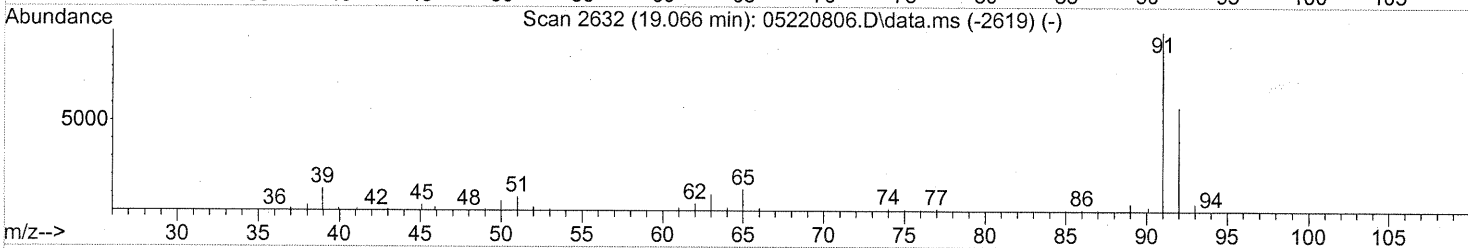
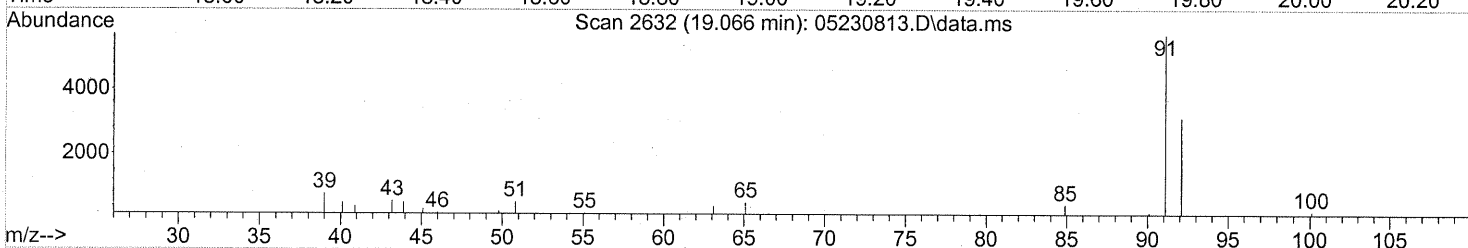
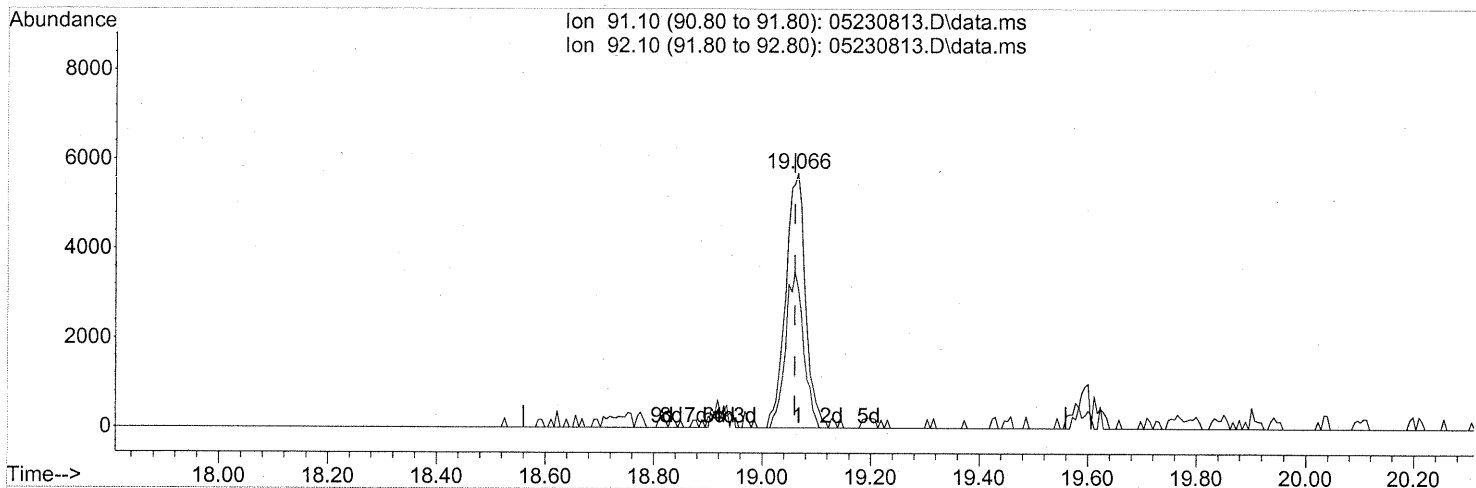
(47) Trichloroethene (T)
 16.527min (-0.011) 2.18ng
 response 80339

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230813.D\data.ms

(58) Toluene (T)

19.066min (+0.006) 0.11ng

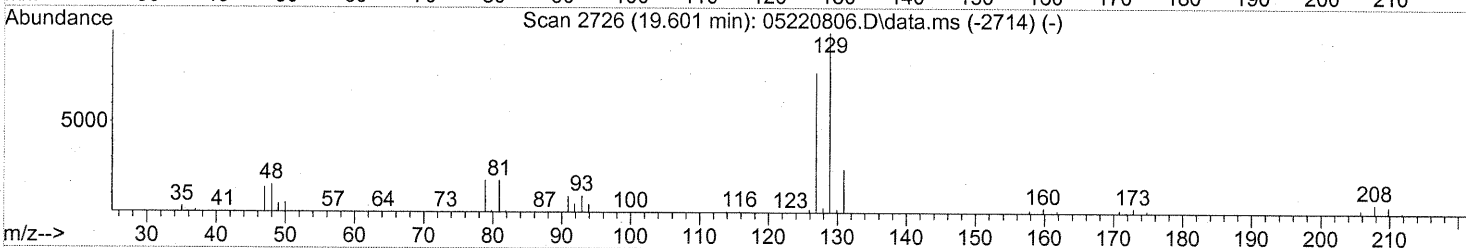
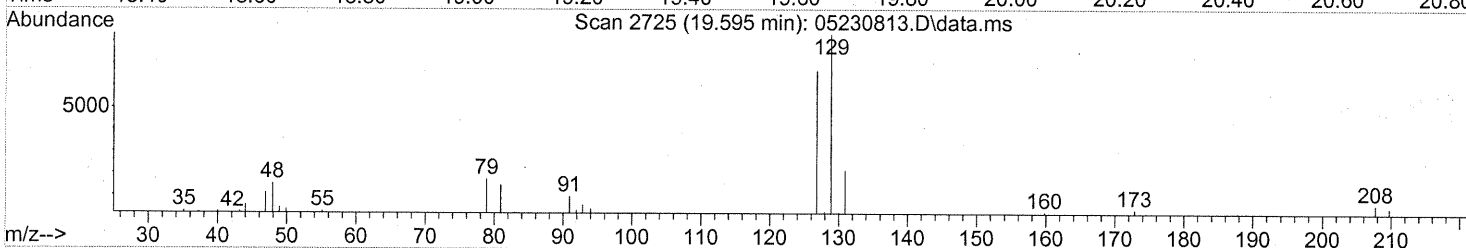
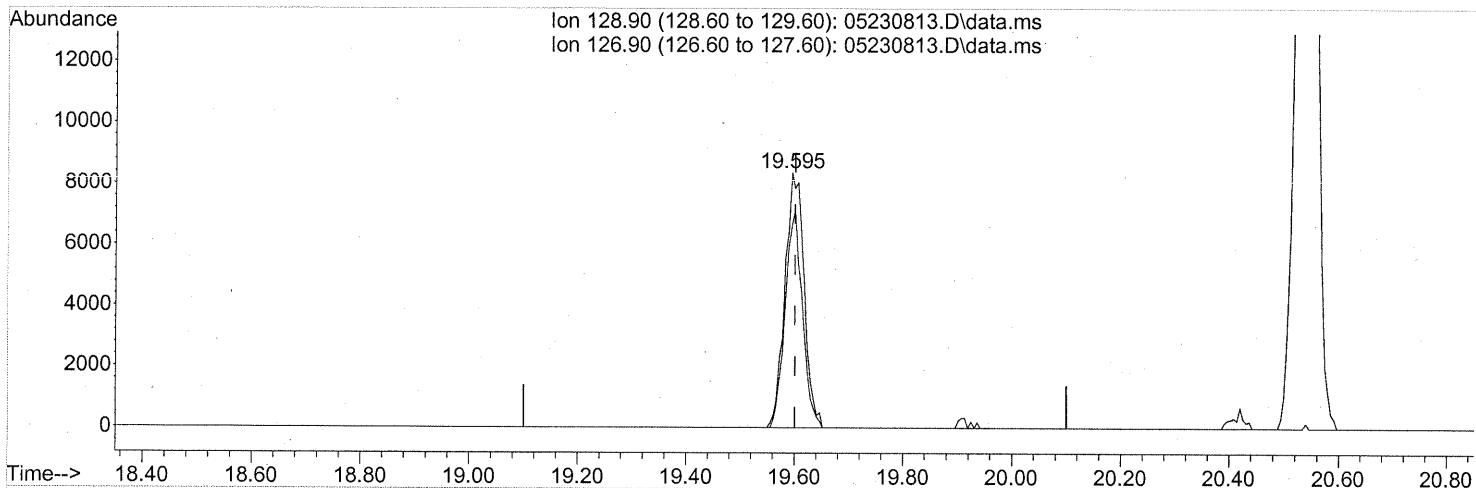
response 14467

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	55.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230813.D\data.ms

(60) Dibromochloromethane (T)

19.595min (-0.006) 0.57ng

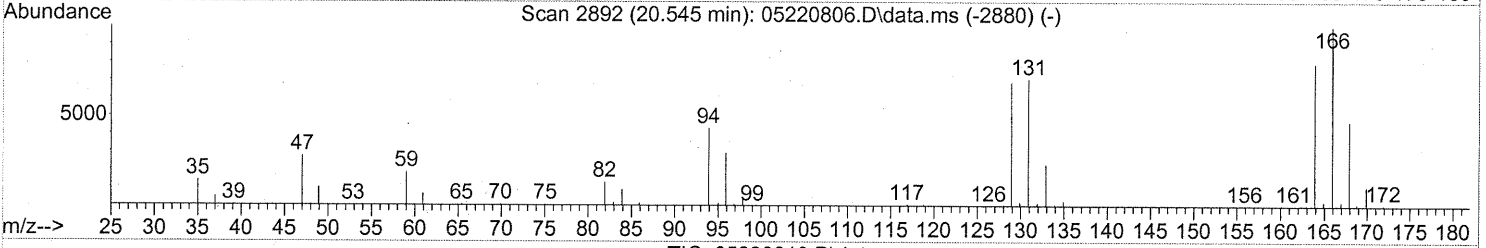
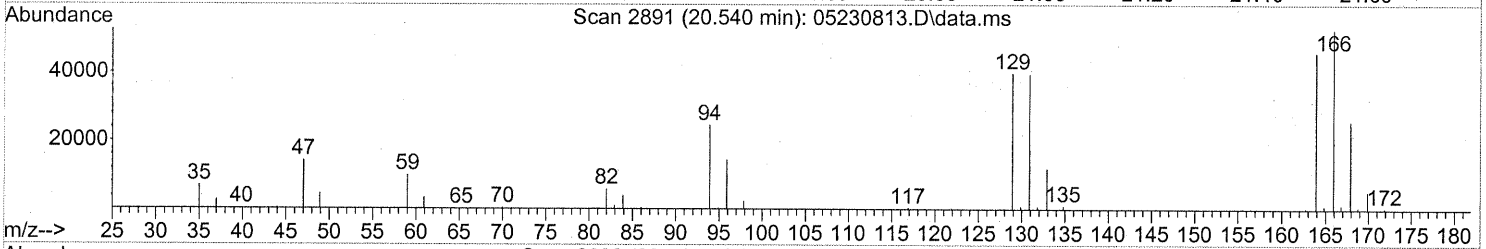
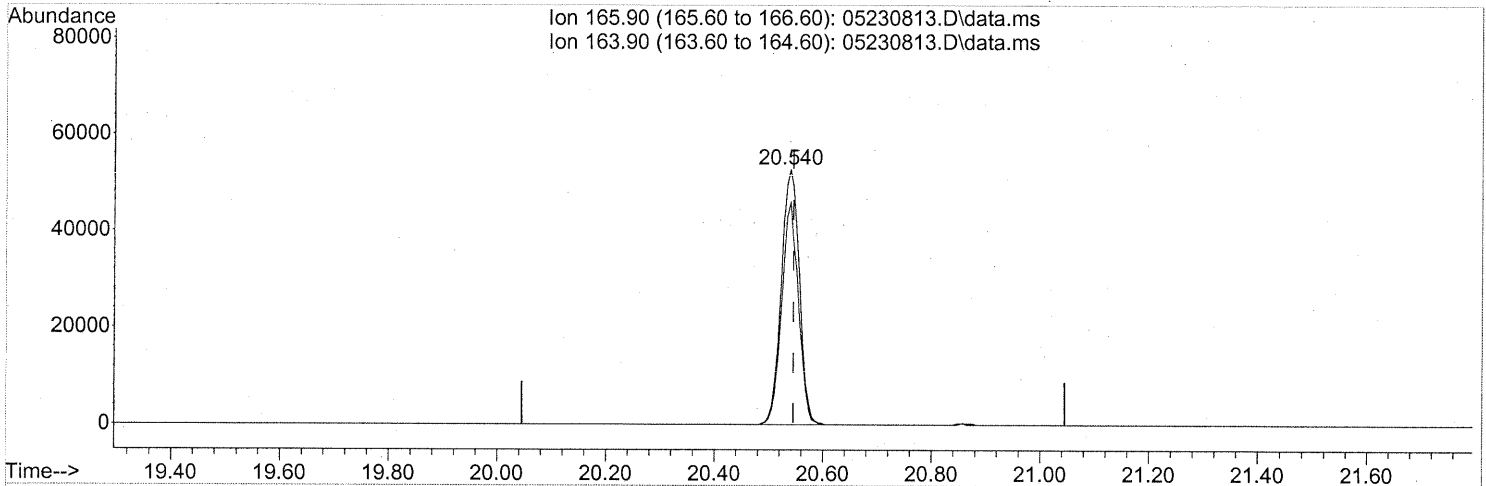
response 20419

Ion	Exp%	Act%
128.90	100	100
126.90	76.90	77.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230813.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 3.10ng

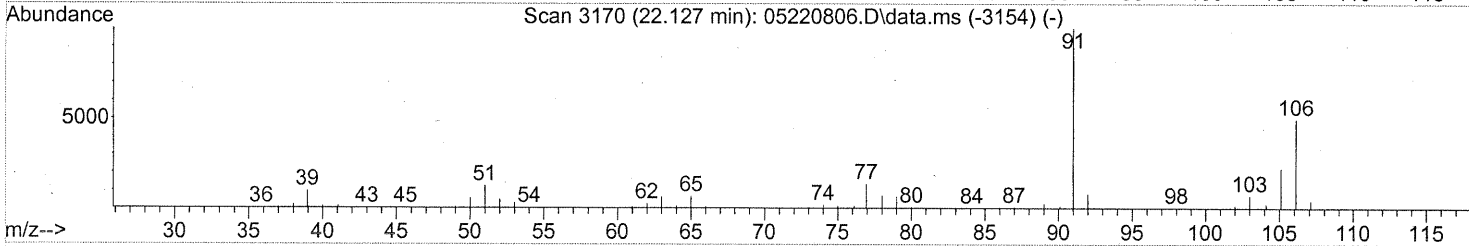
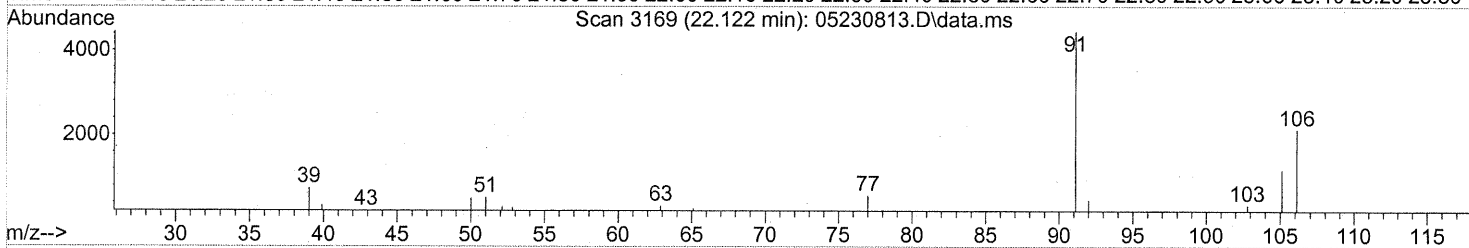
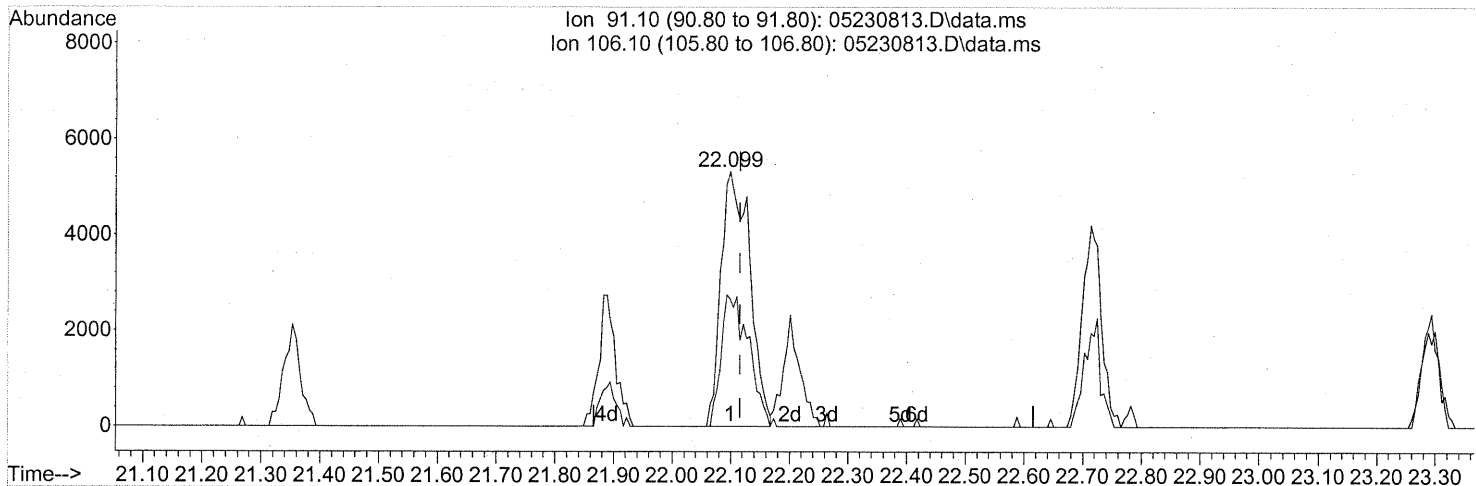
response 121275

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	80.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230813.D\data.ms

(67) m- & p-Xylene (T)

22.099min (-0.017) 0.18ng

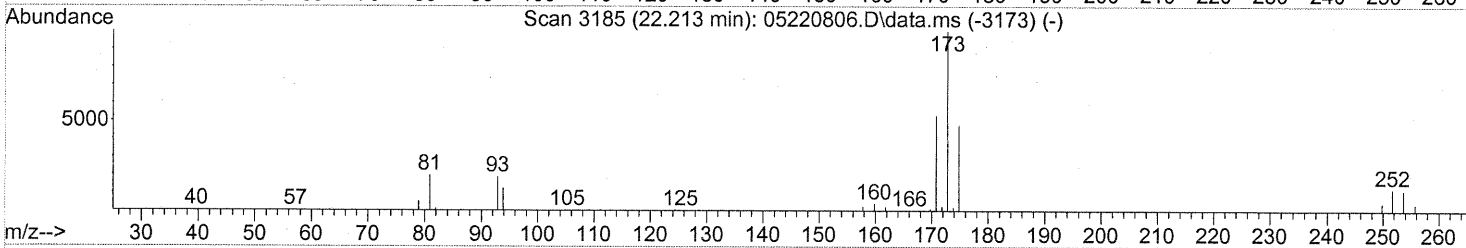
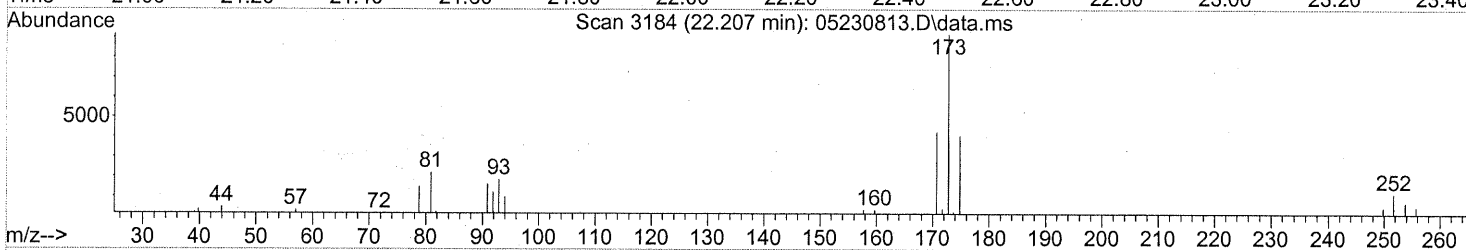
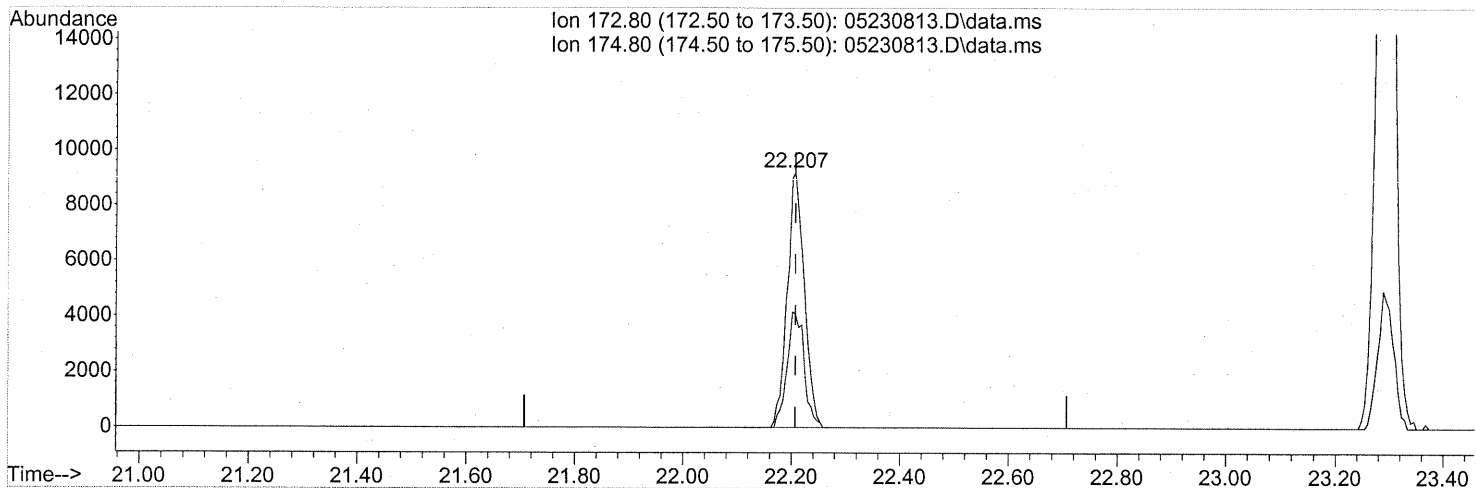
response 18135

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	49.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230813.D\data.ms

(68) Bromoform (T)

22.207min (-0.000) 0.76ng

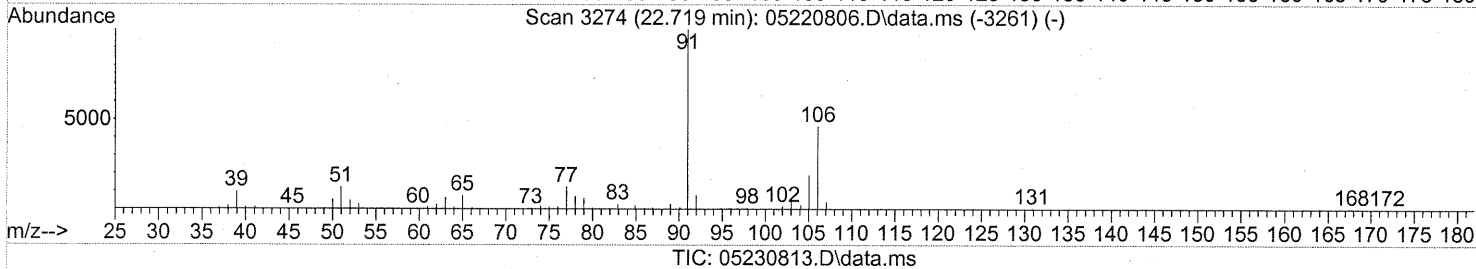
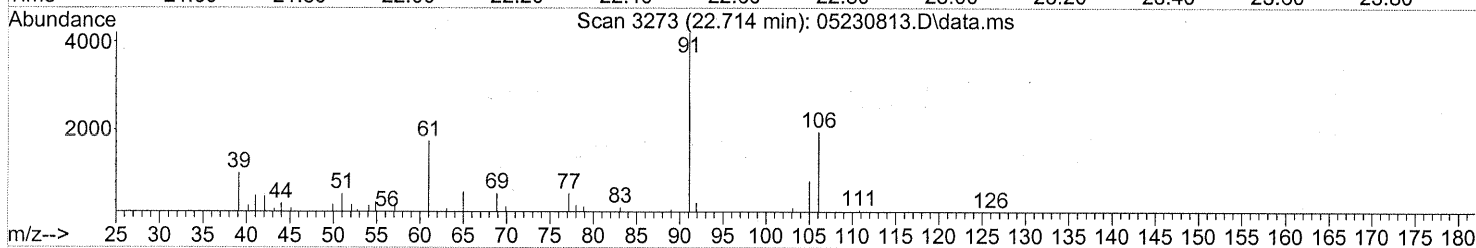
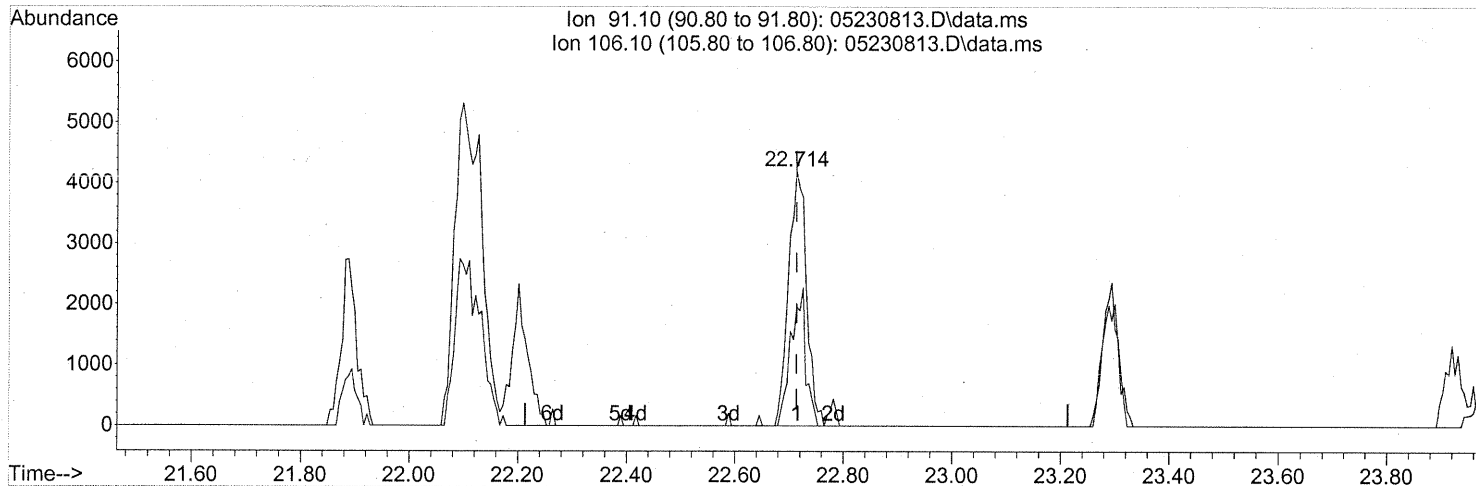
response 20126

Ion	Exp%	Act%
172.80	100	100
174.80	49.40	45.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 0.09ng

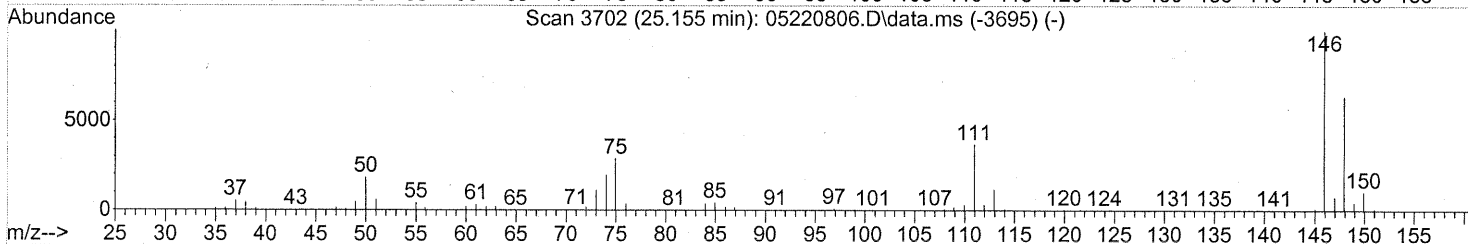
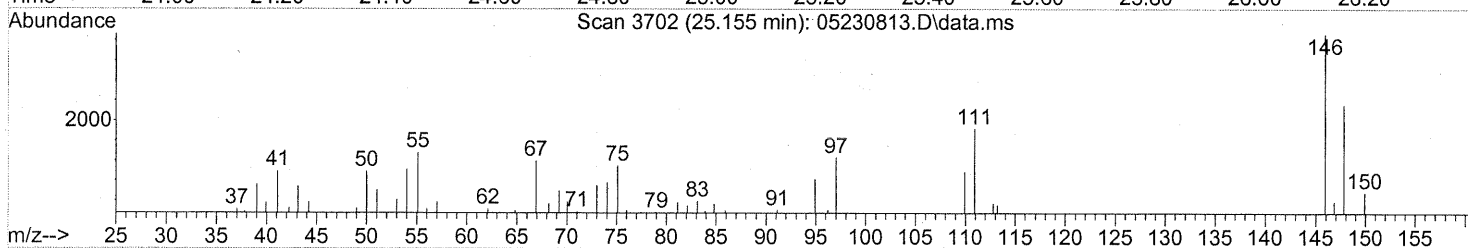
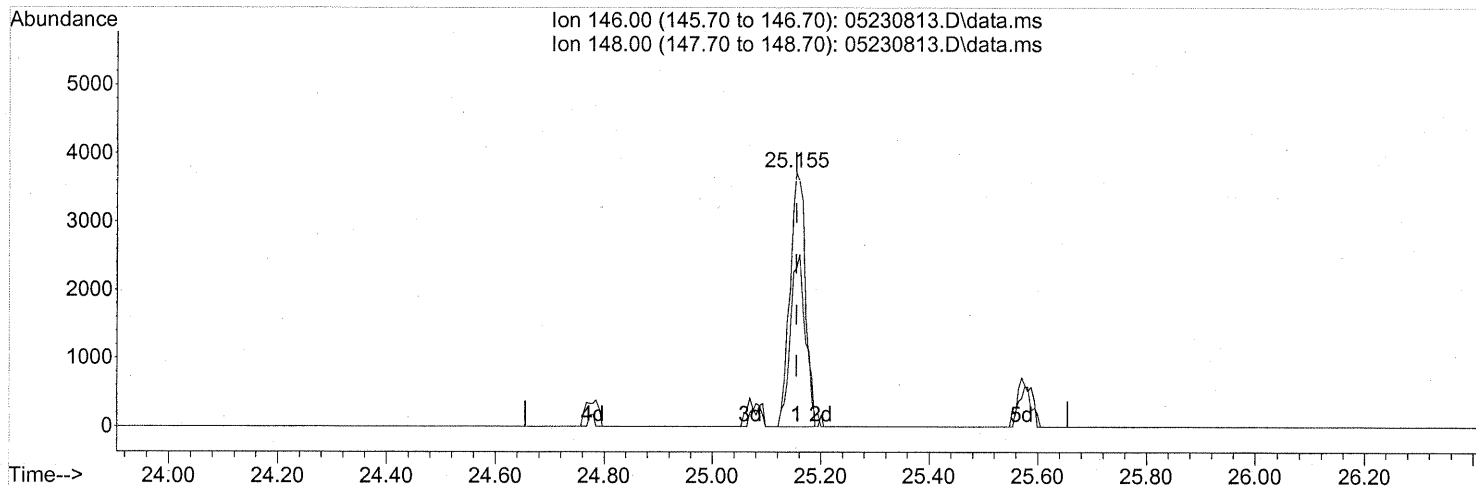
response 9654

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	44.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 17:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

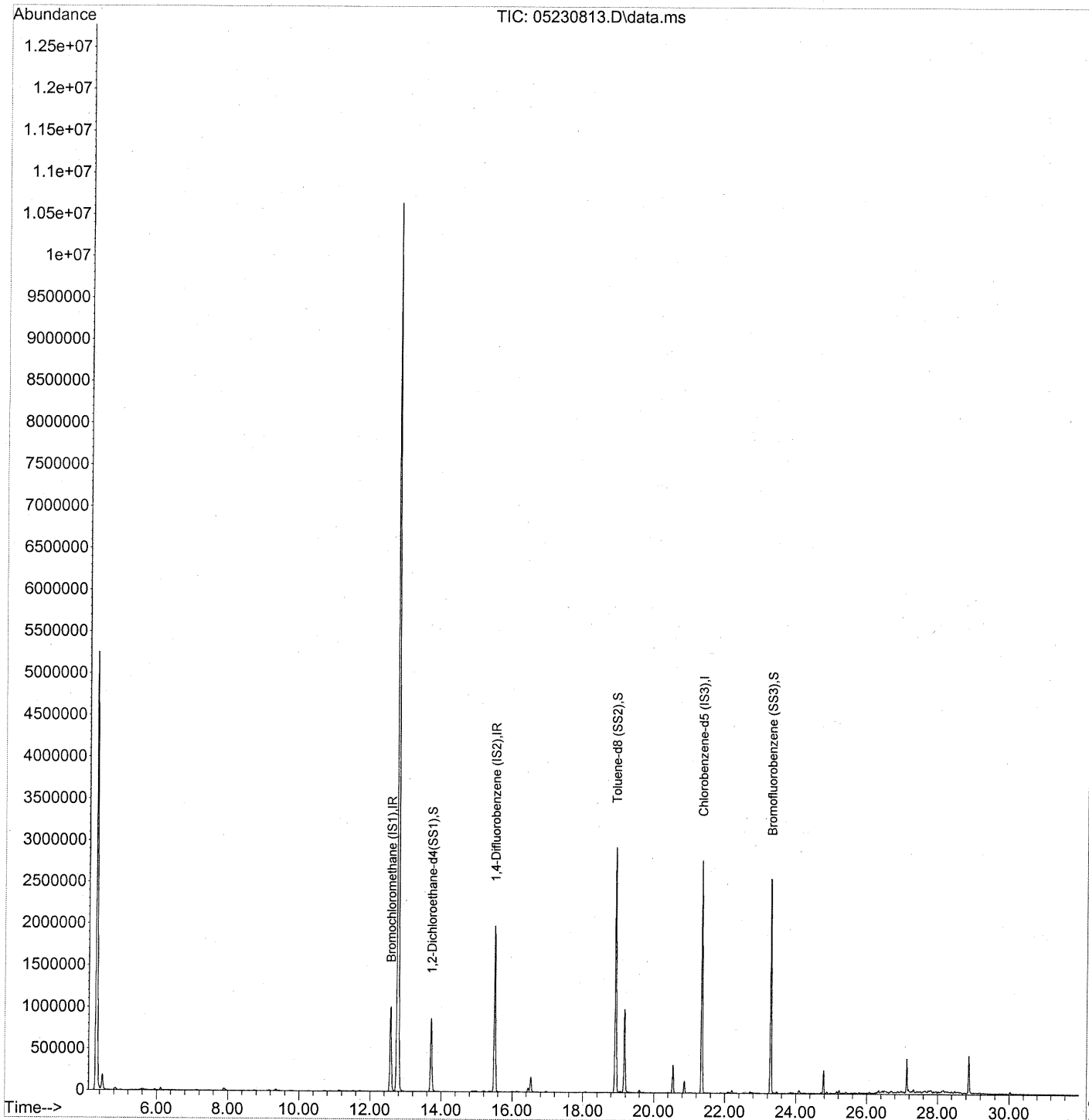
25.155min (-0.000) 0.09ng

response 7343

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	66.96
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230813.D
Acq On : 23 May 2008 17:31
Operator : RTB
Sample : P0801483-002 (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 17:08:48 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230813.D
 Acq On : 23 May 2008 17:31
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

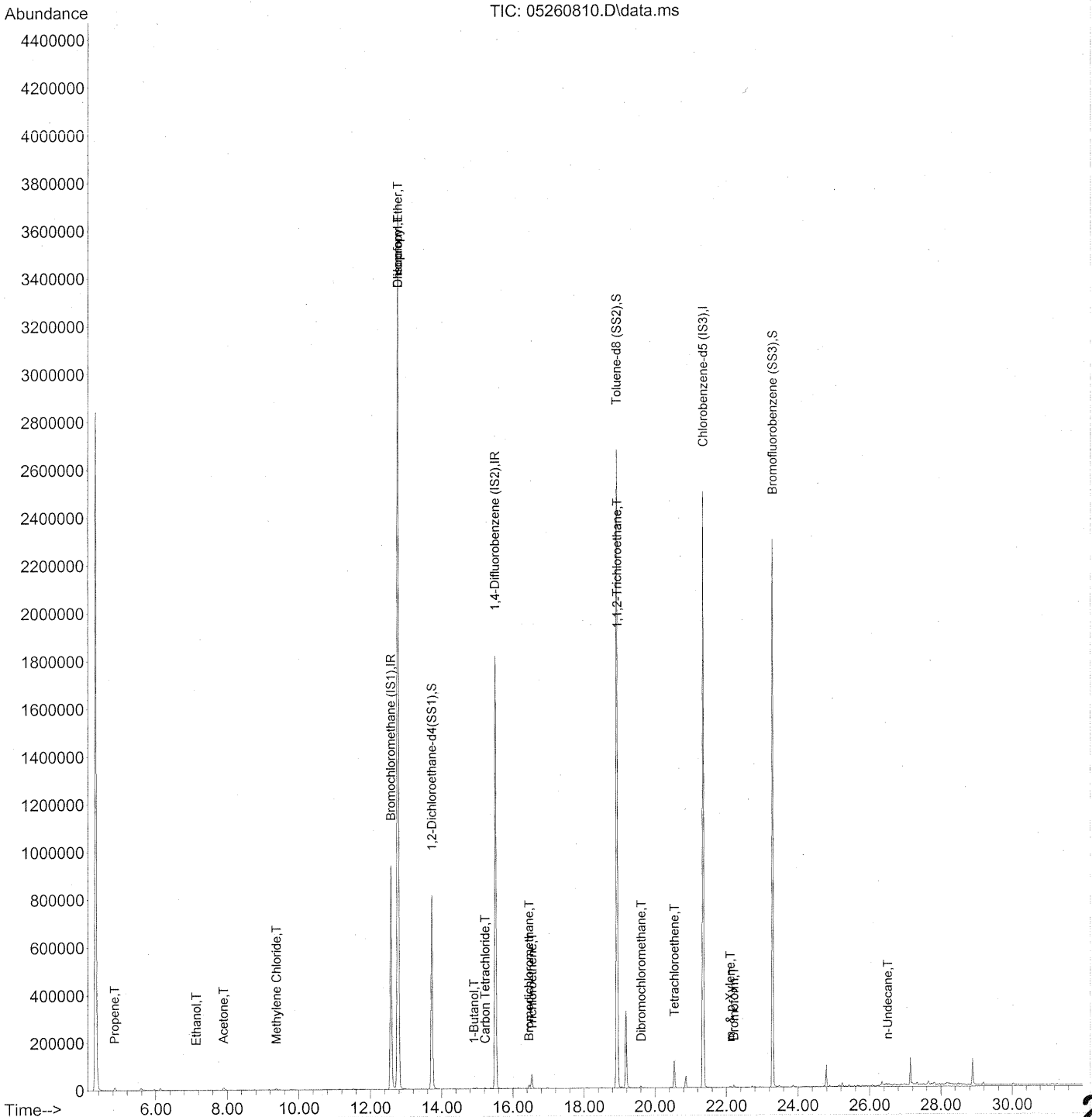
Quant Time: Jun 02 17:08:48 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	530786	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2293187	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1081463	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	905518	24.621	ng	-0.03
Spiked Amount	25.000		Recovery	=	98.48%	
5) Toluene-d8 (SS2)	18.92	98	2430775	25.027	ng	-0.02
Spiked Amount	25.000		Recovery	=	100.12%	
6) Bromofluorobenzene (SS3)	23.29	174	966947	24.482	ng	0.00
Spiked Amount	25.000		Recovery	=	97.92%	
Target Compounds						
7) tert-Butylbenzene	24.88	119	1207	N.D.		Qvalue
8) n-Butylbenzene	25.91	91	2143	N.D.		

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

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260810.D
 Acq On : 26 May 2008 17:55
 Operator : WA
 Sample : P0801483-002 Dil (20ml)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 06:13:13 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260810.D
 Acq On : 26 May 2008 17:55
 Operator : WA
 Sample : P0801483-002 Dil (20ml)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 06:13:13 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	493460	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2115084	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	978318	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.72	65	836426	24.463	ng	0.00	
Spiked Amount				25.000			
				Recovery =		97.84%	✓
57) Toluene-d8 (SS2)	18.92	98	2215961	25.221	ng	0.00	
Spiked Amount				25.000			
				Recovery =		100.88%	✓
73) Bromofluorobenzene (SS3)	23.29	174	884118	24.745	ng	0.00	
Spiked Amount				25.000			
				Recovery =		98.96%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	3210	0.082	ng	# 45
3) Dichlorodifluoromethane	5.00	85	1771	N.D.		
4) Chloromethane	5.33	50	390	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.52	94	137	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	2566	0.099	ng	# 67
11) Acetonitrile	7.47	41	2465	N.D.		
12) Acrolein	7.69	56	557	N.D.		
13) Acetone	7.89	58	5180	0.195	ng	# 24
14) Trichlorofluoromethane	8.16	101	520	N.D.		
15) Isopropanol	8.37	45	1238	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.17	96	1231	N.D.		
18) tert-Butanol	9.30	59	81	N.D.		
19) Methylene Chloride	9.37	84	4378	0.147	ng	# 67
20) Allyl Chloride	9.46	41	54	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.77	76	4622	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	245	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.74	72	633	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.77	87	409650	17.243	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.70	57	269	N.D.		

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260810.D
 Acq On : 26 May 2008 17:55
 Operator : WA
 Sample : P0801483-002 Dil (20ml)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 06:13:13 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.77	83	3918499	87.083	ng	100
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.89	62	65	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.91	56	3134	0.108	ng	98
41) Benzene	14.98	78	5286	N.D.		
42) Carbon Tetrachloride	15.22	117	2985	0.070	ng	87
43) Cyclohexane	15.51	84	1611	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.45	83	13275	0.355	ng	98
47) Trichloroethene	16.54	130	27773	0.818	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.63	57	54	N.D.		
50) Methyl Methacrylate	16.73	100	109	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	195284	7.136	ng	# 8
58) Toluene	19.07	91	4823	N.D.		
59) 2-Hexanone	19.38	43	57	N.D.		
60) Dibromochloromethane	19.61	129	6439	0.200	ng	99
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.35	43	116	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.54	166	40593	1.149	ng	98
65) Chlorobenzene	21.40	112	349	N.D.		
66) Ethylbenzene	21.89	91	1635	N.D.		
67) m- & p-Xylene	22.11	91	6371	0.070	ng	98
68) Bromoform	22.21	173	5930	0.247	ng	93
69) Styrene	22.58	104	238	N.D.		
70) o-Xylene	22.72	91	3495	N.D.		
71) n-Nonane	22.98	43	148	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.29	105	1435	N.D.		
75) alpha-Pinene	23.96	93	55	N.D.		
76) n-Propylbenzene	24.11	91	910	N.D.		
77) 3-Ethyltoluene	24.23	105	1594	N.D.		
78) 4-Ethyltoluene	24.28	105	1413	N.D.		
79) 1,3,5-Trimethylbenzene	24.38	105	620	N.D.		

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260810.D
 Acq On : 26 May 2008 17:55
 Operator : WA
 Sample : P0801483-002 Dil (20ml)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 06:13:13 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

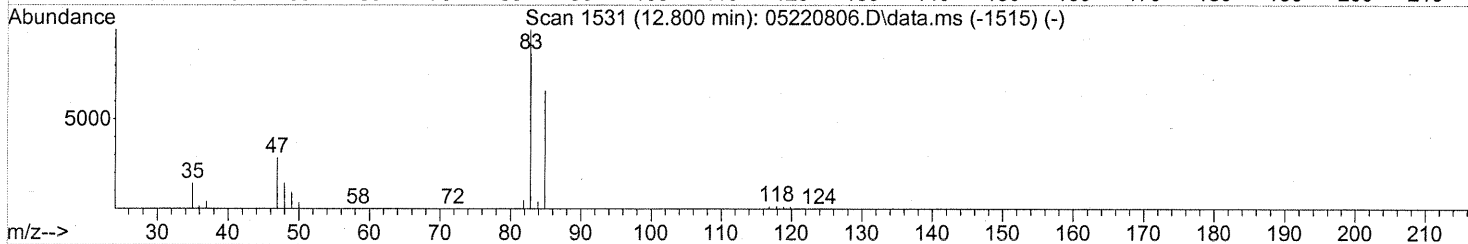
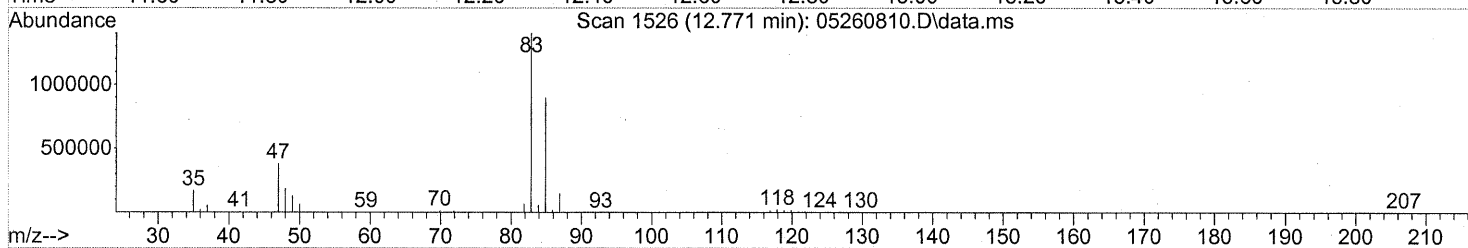
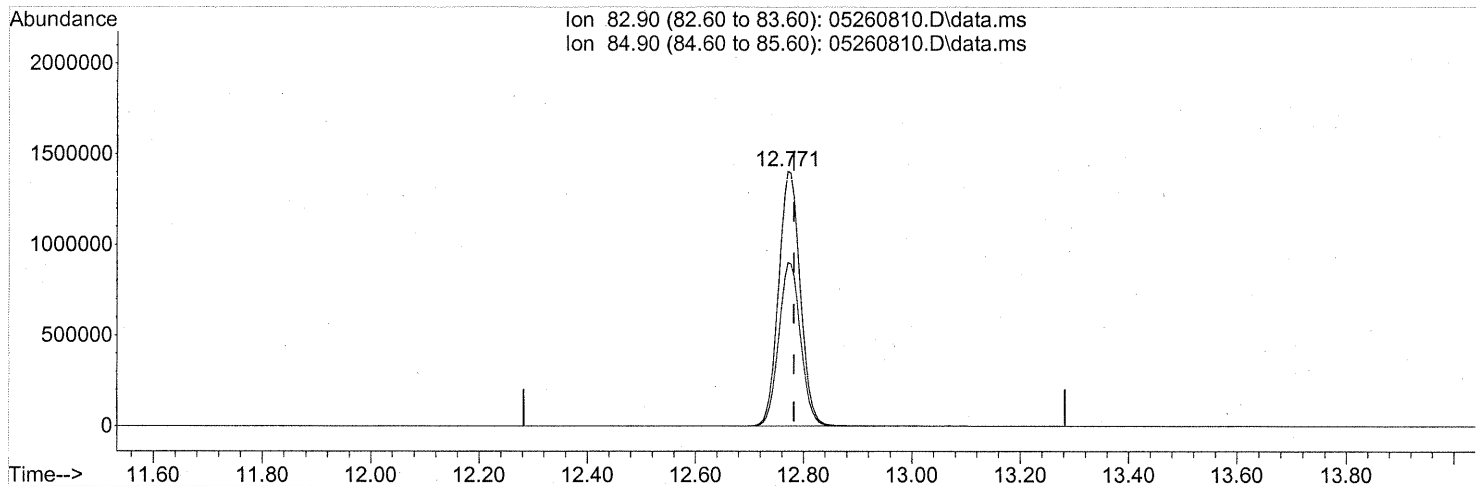
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.78	118	1228	N.D.		
81) 2-Ethyltoluene	24.62	105	887	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	3082	N.D.		
83) n-Decane	24.99	57	1370	N.D.		
84) Benzyl Chloride	25.05	91	52	N.D.		
85) 1,3-Dichlorobenzene	25.08	146	208	N.D.		
86) 1,4-Dichlorobenzene	25.16	146	2840	N.D.		
87) sec-Butylbenzene	25.21	105	116	N.D.		
88) p-Isopropyltoluene	25.40	119	664	N.D.		
89) 1,2,3-Trimethylbenzene	25.41	105	933	N.D.		
90) 1,2-Dichlorobenzene	25.57	146	432	N.D.		
91) d-Limonene	25.56	68	559	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.50	57	3745	0.054	ng	# 75
94) 1,2,4-Trichlorobenzene	27.63	180	898	N.D.		
95) Naphthalene	27.78	128	4196	N.D.		
96) n-Dodecane	27.74	57	2284	N.D.		
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260810.D
 Acq On : 26 May 2008 17:55
 Operator : WA
 Sample : P0801483-002 Dil (20ml)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 06:13:13 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260810.D\data.ms

(32) Chloroform (T)
 12.771min (-0.011) 87.08ng
 response 3918499

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.44
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG81B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00380

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08 & 5/26/08
 Volume(s) Analyzed: 0.10 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): -2.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	7.6	0.76	0.44	1.5	0.15	J
74-87-3	Chloromethane	ND	1.5	0.76	ND	0.74	0.37	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	7.6	0.76	ND	1.1	0.11	
75-01-4	Vinyl Chloride	ND	1.5	0.76	ND	0.59	0.30	
74-83-9	Bromomethane	0.84	1.5	0.76	0.22	0.39	0.20	J
75-00-3	Chloroethane	ND	1.5	0.76	ND	0.58	0.29	
64-17-5	Ethanol	5.0	76	0.76	2.6	40	0.40	J, B
67-64-1	Acetone	12	76	1.1	5.1	32	0.47	J, B
75-69-4	Trichlorofluoromethane	1.2	1.5	0.76	0.21	0.27	0.14	J
107-13-1	Acrylonitrile	ND	7.6	1.1	ND	3.5	0.49	
75-35-4	1,1-Dichloroethene	0.84	1.5	0.76	0.21	0.38	0.19	J
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	7.6	1.1	ND	2.5	0.37	
75-09-2	Methylene Chloride	0.78	7.6	0.76	0.22	2.2	0.22	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.5	0.76	ND	0.49	0.24	
76-13-1	Trichlorotrifluoroethane	ND	1.5	0.85	ND	0.20	0.11	
75-15-0	Carbon Disulfide	4.2	7.6	1.8	1.3	2.4	0.59	J
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.76	ND	0.38	0.19	
75-34-3	1,1-Dichloroethane	ND	1.5	0.76	ND	0.38	0.19	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	0.76	ND	0.42	0.21	
108-05-4	Vinyl Acetate	3.1	76	2.4	0.88	22	0.69	J
78-93-3	2-Butanone (MEK)	4.7	7.6	0.76	1.6	2.6	0.26	J
156-59-2	cis-1,2-Dichloroethene	ND	1.5	0.76	ND	0.38	0.19	
108-20-3	Diisopropyl Ether	ND	7.6	0.90	ND	1.8	0.21	
67-66-3	Chloroform	2,800	1.5	0.90	580	0.31	0.18	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA

Date: 6/4/08

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RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG81B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00380

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08 & 5/26/08
 Volume(s) Analyzed: 0.10 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): -2.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	7.6	0.78	ND	1.8	0.19	
107-06-2	1,2-Dichloroethane	ND	1.5	0.76	ND	0.38	0.19	
71-55-6	1,1,1-Trichloroethane	ND	1.5	0.76	ND	0.28	0.14	
71-43-2	Benzene	2.8	1.5	0.76	0.87	0.48	0.24	
56-23-5	Carbon Tetrachloride	15	1.5	0.76	2.4	0.24	0.12	
994-05-8	tert-Amyl Methyl Ether	ND	7.6	0.76	ND	1.8	0.18	
78-87-5	1,2-Dichloropropane	ND	1.5	0.76	ND	0.33	0.16	
75-27-4	Bromodichloromethane	ND	1.5	0.76	ND	0.23	0.11	
79-01-6	Trichloroethene	17	1.5	0.76	3.2	0.28	0.14	
123-91-1	1,4-Dioxane	ND	7.6	0.93	ND	2.1	0.26	
80-62-6	Methyl Methacrylate	ND	7.6	1.1	ND	1.9	0.28	
142-82-5	n-Heptane	ND	7.6	0.97	ND	1.9	0.24	
10061-01-5	cis-1,3-Dichloropropene	ND	7.6	0.79	ND	1.7	0.17	
108-10-1	4-Methyl-2-pentanone	ND	7.6	0.85	ND	1.9	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	7.6	0.96	ND	1.7	0.21	
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.76	ND	0.28	0.14	
108-88-3	Toluene	10	7.6	0.76	2.8	2.0	0.20	
591-78-6	2-Hexanone	ND	7.6	1.2	ND	1.9	0.28	
124-48-1	Dibromochloromethane	ND	1.5	1.0	ND	0.18	0.12	
106-93-4	1,2-Dibromoethane	ND	1.5	0.82	ND	0.20	0.11	
111-65-9	n-Octane	ND	7.6	0.76	ND	1.6	0.16	
127-18-4	Tetrachloroethene	8.0	1.5	0.76	1.2	0.22	0.11	
108-90-7	Chlorobenzene	ND	1.5	0.78	ND	0.33	0.17	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG81B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00380

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08 & 5/26/08
 Volume(s) Analyzed: 0.10 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): -2.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	7.6	0.94	ND	1.8	0.22	
179601-23-1	m,p-Xylenes	2.3	7.6	2.0	0.53	1.8	0.46	J
75-25-2	Bromoform	ND	7.6	1.2	ND	0.74	0.11	
100-42-5	Styrene	ND	7.6	1.2	ND	1.8	0.27	
95-47-6	o-Xylene	1.2	7.6	0.96	0.27	1.8	0.22	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	0.97	ND	0.22	0.14	
98-82-8	Cumene	ND	7.6	0.85	ND	1.5	0.17	
103-65-1	n-Propylbenzene	ND	7.6	0.79	ND	1.5	0.16	
622-96-8	4-Ethyltoluene	ND	7.6	0.87	ND	1.5	0.18	
108-67-8	1,3,5-Trimethylbenzene	ND	7.6	0.91	ND	1.5	0.19	
98-83-9	alpha-Methylstyrene	ND	7.6	1.1	ND	1.6	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	7.6	1.0	ND	1.5	0.21	
100-44-7	Benzyl Chloride	ND	1.5	1.3	ND	0.29	0.25	
541-73-1	1,3-Dichlorobenzene	ND	1.5	0.94	ND	0.25	0.16	
106-46-7	1,4-Dichlorobenzene	1.5	1.5	0.85	0.26	0.25	0.14	
135-98-8	sec-Butylbenzene	ND	7.6	0.88	ND	1.4	0.16	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	7.6	0.99	ND	1.4	0.18	
95-50-1	1,2-Dichlorobenzene	ND	1.5	1.0	ND	0.25	0.17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.6	1.2	ND	0.79	0.12	
120-82-1	1,2,4-Trichlorobenzene	3.3	1.5	1.2	0.44	0.20	0.16	
91-20-3	Naphthalene	ND	3.0	1.1	ND	0.58	0.21	
87-68-3	Hexachlorobutadiene	10	1.5	1.4	0.94	0.14	0.13	
98-06-6	tert-Butylbenzene	ND	3.0	0.76	ND	0.55	0.14	
104-51-8	n-Butylbenzene	ND	3.0	0.76	ND	0.55	0.14	

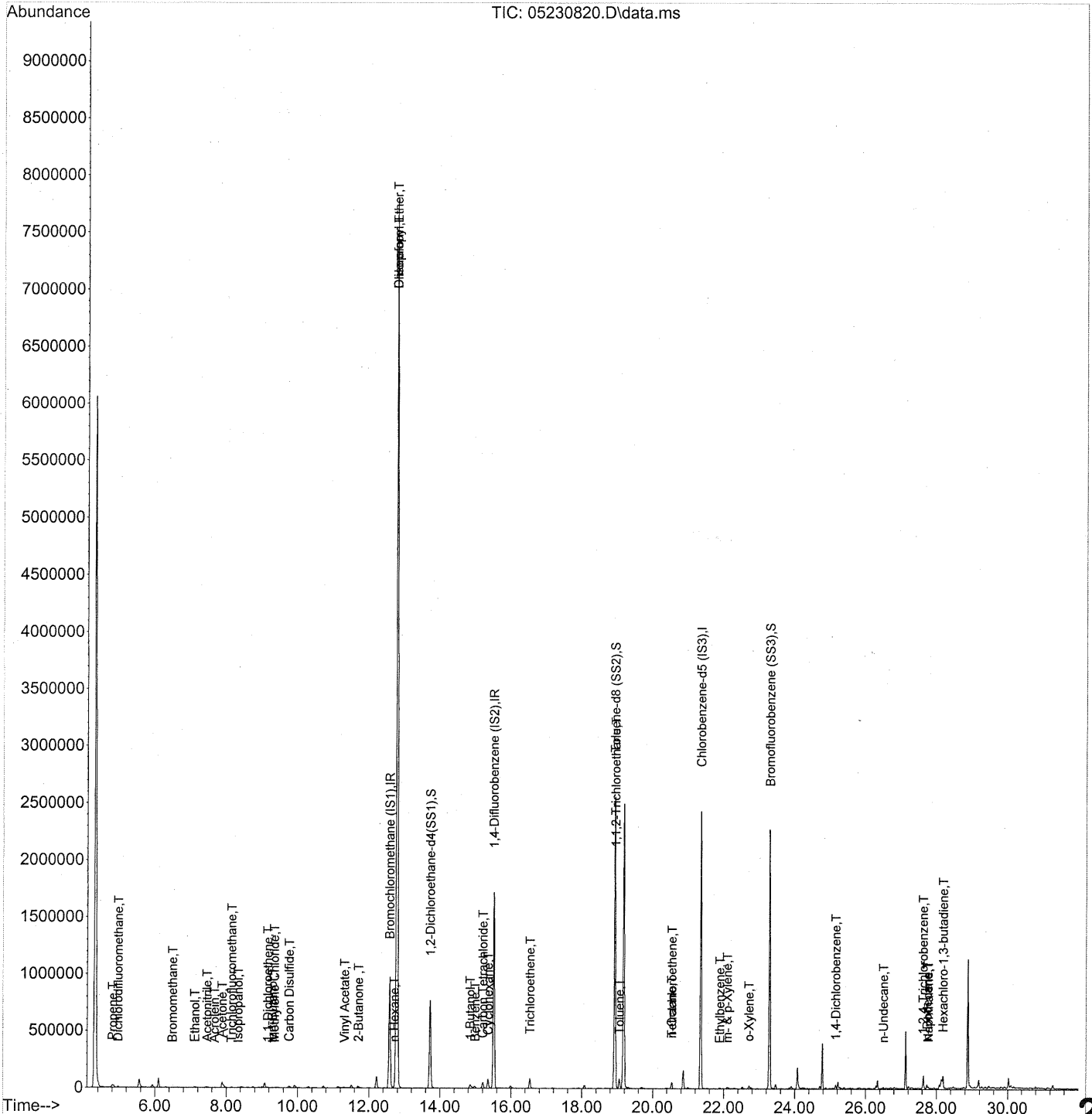
ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5) ✓
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 10:00:34 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
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Quant Time: May 29 10:00:34 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	461344	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1986639	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	938952	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	779253	24.377	ng	0.00	
Spiked Amount	25.000			Recovery =		97.52%	✓
57) Toluene-d8 (SS2)	18.93	98	2115620	25.088	ng	0.00	
Spiked Amount	25.000			Recovery =		100.36%	✓
73) Bromofluorobenzene (SS3)	23.29	174	846737	24.692	ng	0.00	
Spiked Amount	25.000			Recovery =		98.76%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	9950	0.273	ng	# 59
3) Dichlorodifluoromethane	4.97	85	9538	0.142	ng	99
4) Chloromethane	5.30	50	1151	N.D.	✓	
5) Freon 114	5.54	135	89	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.02	54	122	N.D.		
8) Bromomethane	6.49	94	1333	0.055	ng	93
9) Chloroethane	0.00	64	0	N.D.	✓	
10) Ethanol	7.11	45	7919m	0.326	ng	
11) Acetonitrile	7.46	41	11236	0.160	ng	# 60
12) Acrolein	7.67	56	2239	0.129	ng	92
13) Acetone	7.88	58	19687m	0.793	ng	
14) Trichlorofluoromethane	8.14	101	4446	0.077	ng	95
15) Isopropanol	8.33	45	4556	0.058	ng	94
16) Acrylonitrile	8.64	53	66	N.D.	✓	
17) 1,1-Dichloroethene	9.16	96	1387	0.055	ng	# 82
18) tert-Butanol	9.29	59	3558	0.053	ng	93
19) Methylene Chloride	9.35	84	1414m	0.051	ng	
20) Allyl Chloride	9.45	41	975	N.D.	✓	
21) Trichlorotrifluoroethane	9.81	151	435	N.D.	✓	
22) Carbon Disulfide	9.76	76	29081	0.276	ng	97
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
24) 1,1-Dichloroethane	11.09	63	277	N.D.	✓	
25) Methyl tert-Butyl Ether	11.22	73	1990	N.D.	✓	
26) Vinyl Acetate	11.31	86	937	0.204	ng	# 23
27) 2-Butanone	11.71	72	5605	0.309	ng	97
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	851187	38.323	ngm	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.71	57	3127	0.063	ng	# 71

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Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 10:00:34 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	8101459	192.576	ng <i>see Dil</i>	100
34) Tetrahydrofuran	13.41	72	505	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.89	62	113	N.D.	✓	
38) 1,1,1-Trichloroethane	14.29	97	108	N.D.	✓	
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.85	56	33001	1.209	ng	95
41) Benzene	<u>14.99</u>	78	19085	<u>0.183</u>	ng	98
42) Carbon Tetrachloride	<u>15.21</u>	117	40186	<u>1.003</u>	ng	95
43) Cyclohexane	15.35	84	3797	0.094	ng #	1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	16.20	63	120	N.D.	✓	
46) Bromodichloromethane	16.46	83	995	N.D.	✓	
47) Trichloroethene	<u>16.53</u>	130	36314	<u>1.138</u>	ng	99
48) 1,4-Dioxane	16.53	88	171	N.D.	✓	
49) Isooctane	16.61	57	2288	N.D.		
50) Methyl Methacrylate	16.74	100	83	N.D.	✓	
51) n-Heptane	16.99	71	198	N.D.	✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.79	58	211	N.D.	✓	
54) trans-1,3-Dichloropropene	18.43	75	115	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	186596	7.259	ng <i>ML #</i>	9
58) Toluene	<u>19.06</u>	91	78658	<u>0.686</u>	ng	95
59) 2-Hexanone	19.38	43	2215	N.D.	✓	
60) Dibromochloromethane	19.59	129	213	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.19	43	61	N.D.		
63) n-Octane	20.53	57	3144	0.124	ng <i>ML #</i>	73
64) Tetrachloroethene	<u>20.54</u>	166	17937	<u>0.529</u>	ng	91
65) Chlorobenzene	21.41	112	787	N.D.	✓	
66) Ethylbenzene	<u>21.89</u>	91	7807	<u>0.059</u>	ng <i>X HDL</i>	89
67) m- & p-Xylene	<u>22.10</u>	91	13381	<u>0.152</u>	ng	88
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	22.59	104	825	N.D.	✓	
70) o-Xylene	<u>22.71</u>	91	7414	<u>0.078</u>	ng	98
71) n-Nonane	22.98	43	930	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.70	83	61	N.D.	✓	
74) Cumene	23.46	105	1081	N.D.	✓	
75) alpha-Pinene	23.95	93	549	N.D.		
76) n-Propylbenzene	24.10	91	2900	N.D.	✓	
77) 3-Ethyltoluene	24.23	105	5389	N.D.		
78) 4-Ethyltoluene	24.28	105	4193	N.D.	✓	
79) 1,3,5-Trimethylbenzene	24.37	105	1341	N.D.	✓	

RT 5/30/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 10:00:34 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

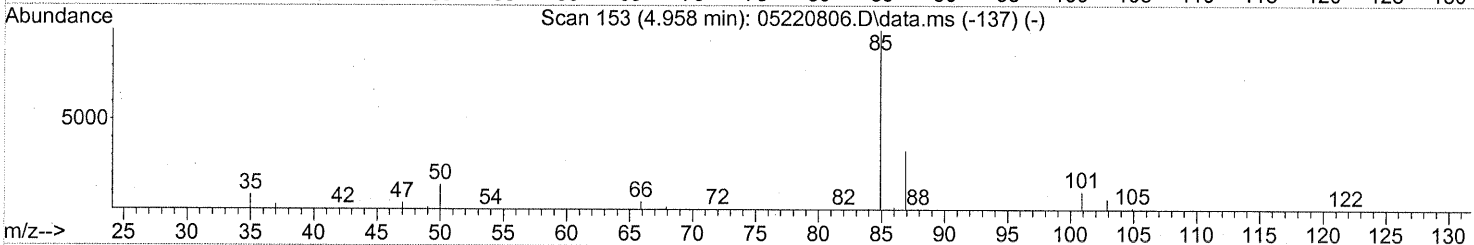
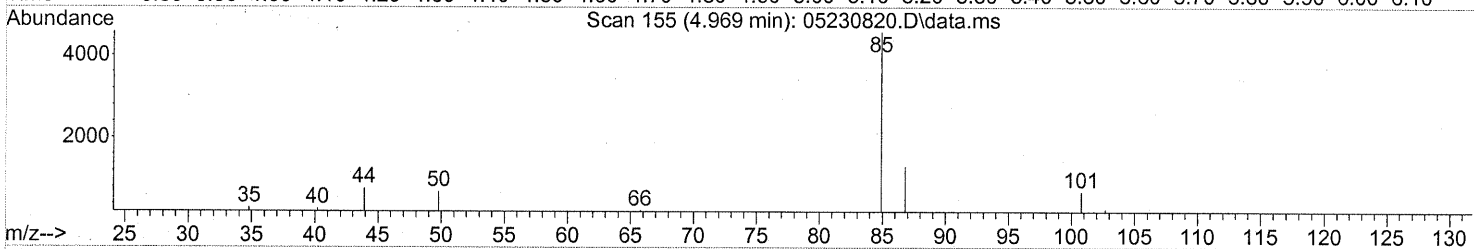
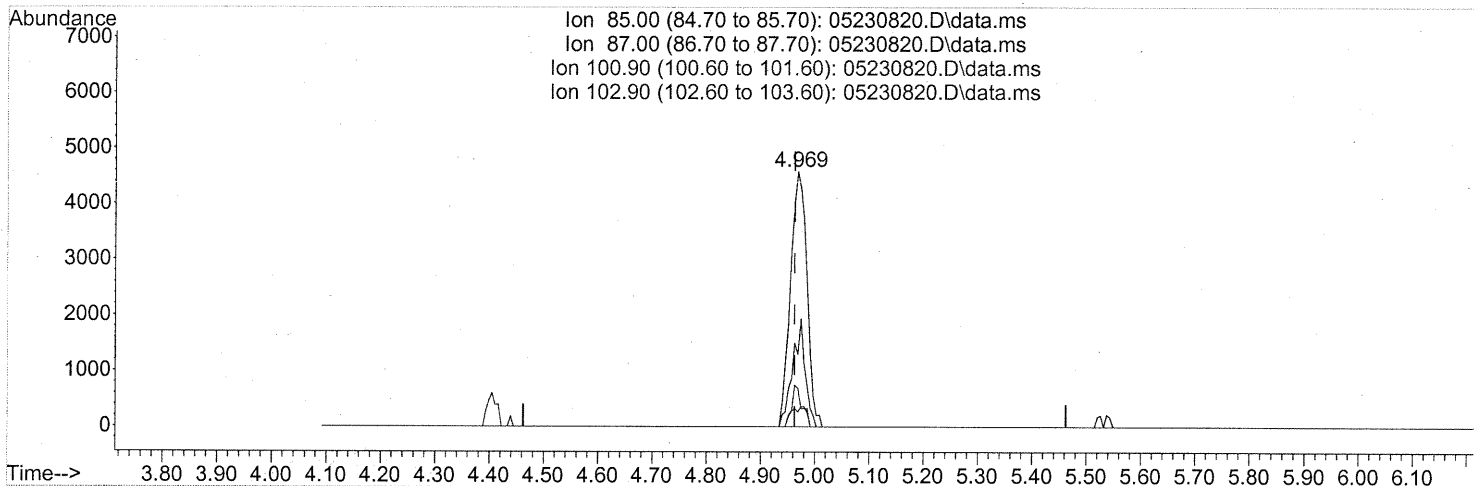
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	984	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	3132	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	3323	N.D.	✓	
83) n-Decane	24.98	57	1989	N.D.		
84) Benzyl Chloride	25.04	91	390	N.D.	✓	
85) 1,3-Dichlorobenzene	25.08	146	3105	N.D.	✓	
86) 1,4-Dichlorobenzene	25.15	146	7075	0.101 ng		98
87) sec-Butylbenzene	25.21	105	556	N.D.	✓	
88) p-Isopropyltoluene	25.40	119	2927	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.40	105	3190	N.D.		
90) 1,2-Dichlorobenzene	25.57	146	1915	N.D.	✓	
91) d-Limonene	25.58	68	1358	N.D.		
92) 1,2-Dibromo-3-Chloropr...	26.24	157	338	N.D.	✓	
93) n-Undecane	26.50	57	5258	0.079 ng		86
94) 1,2,4-Trichlorobenzene	27.62	180	10702	0.214 ng		97
95) Naphthalene	27.77	128	8774	0.058 ng		94
96) n-Dodecane	27.74	57	10381	0.157 ng		80
97) Hexachloro-1,3-butadiene	28.19	225	21868	0.656 ng		96

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230820.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 0.14ng

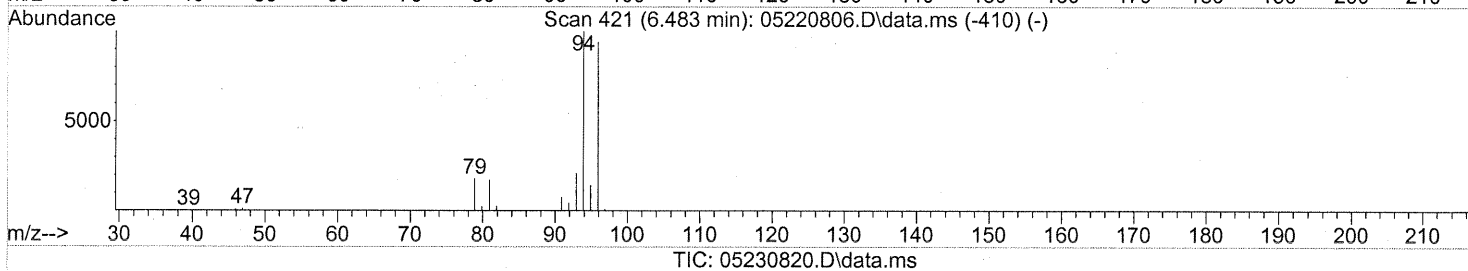
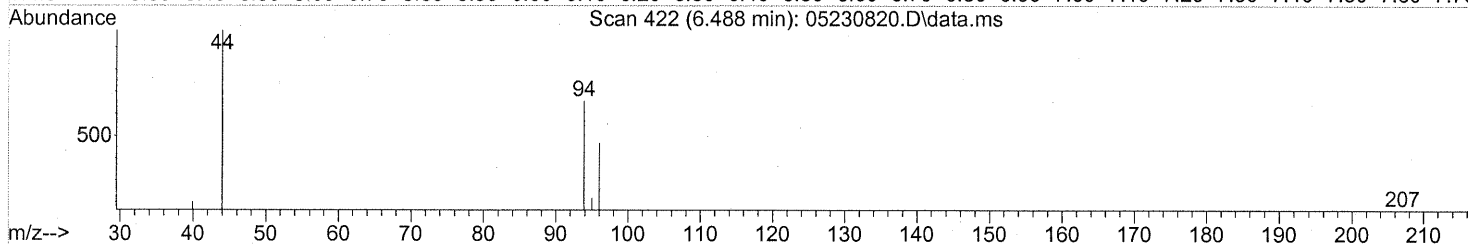
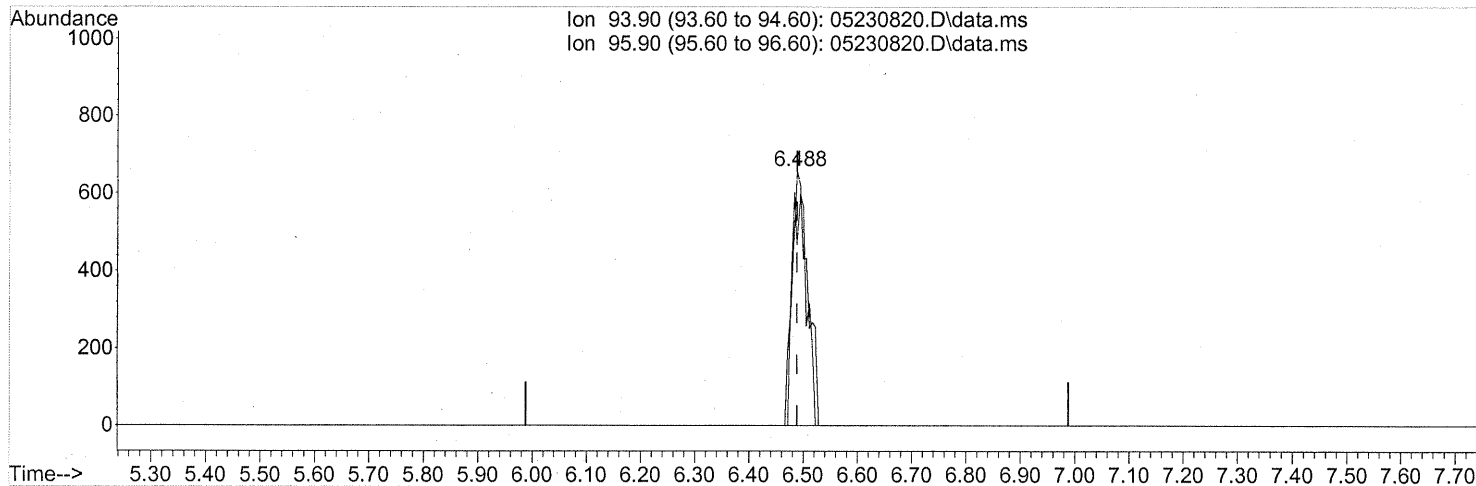
response 9538

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.63
100.90	9.30	10.37
102.90	6.00	7.20

Quantitation Report (Qedit)

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 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(8) Bromomethane (T)

6.488min (-0.000) 0.06ng

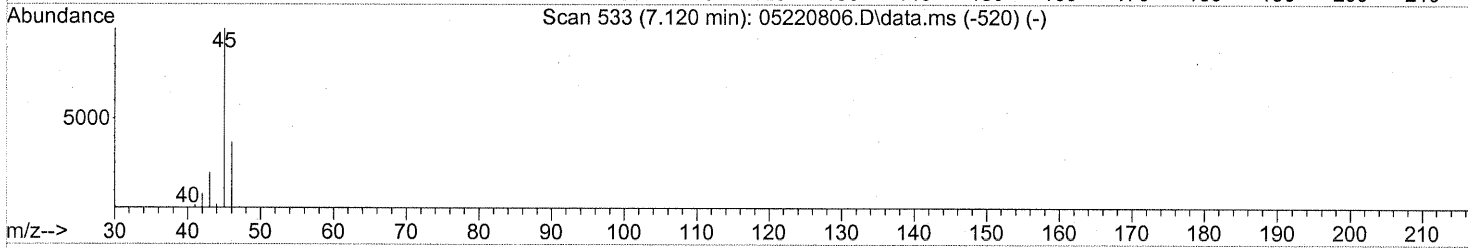
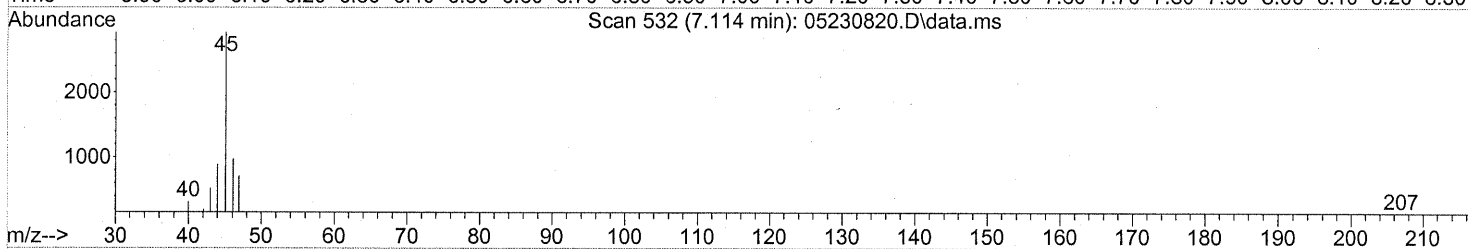
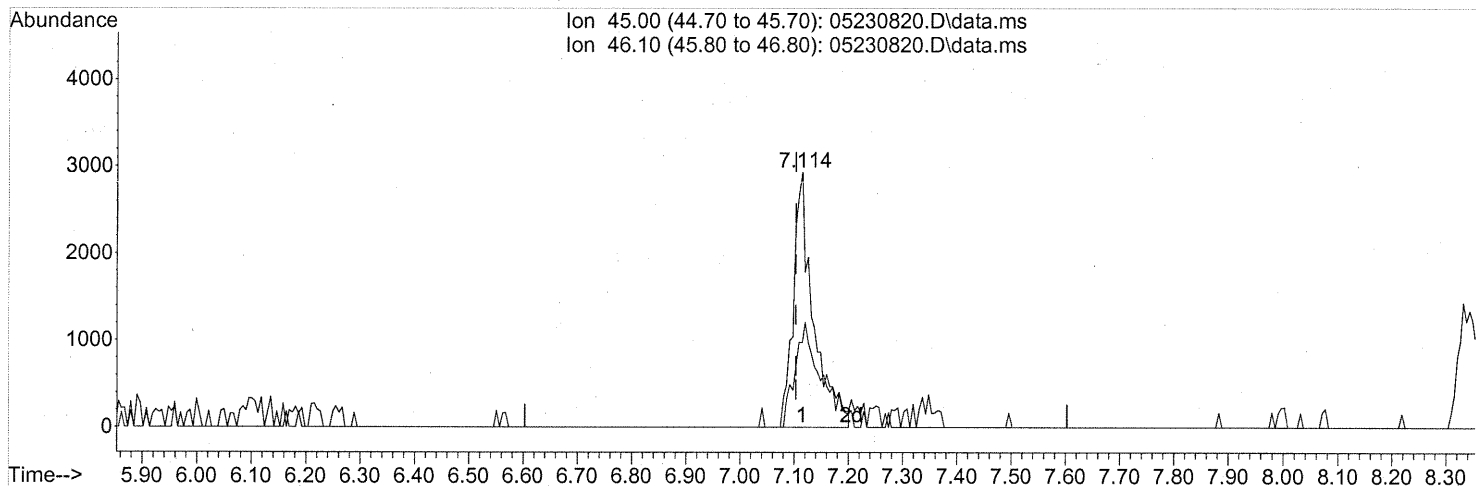
response 1333

Ion	Exp%	Act%
93.90	100	100
95.90	92.30	85.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
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Quant Time: May 24 08:18:54 2008
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(10) Ethanol (T)

7.114min (+0.011) 0.31ng

response 7515

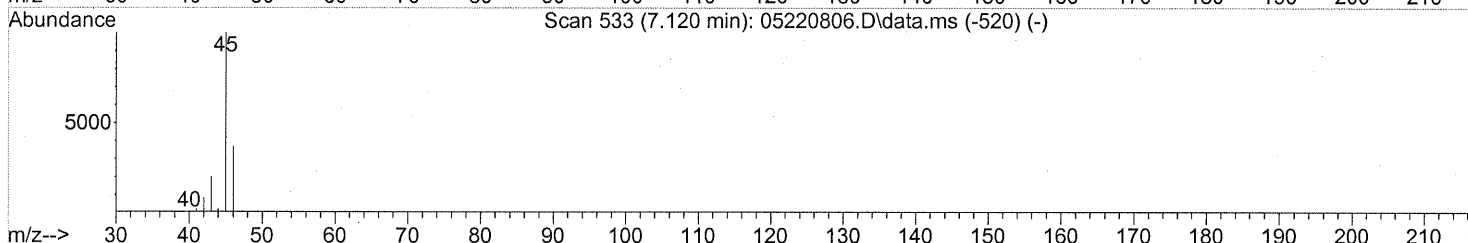
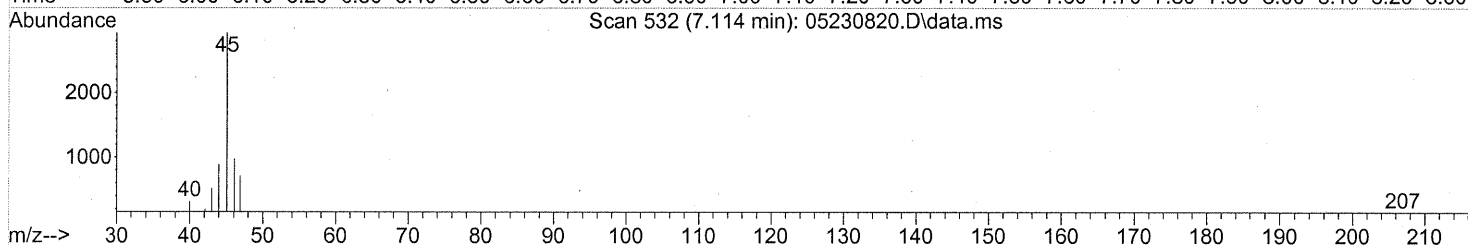
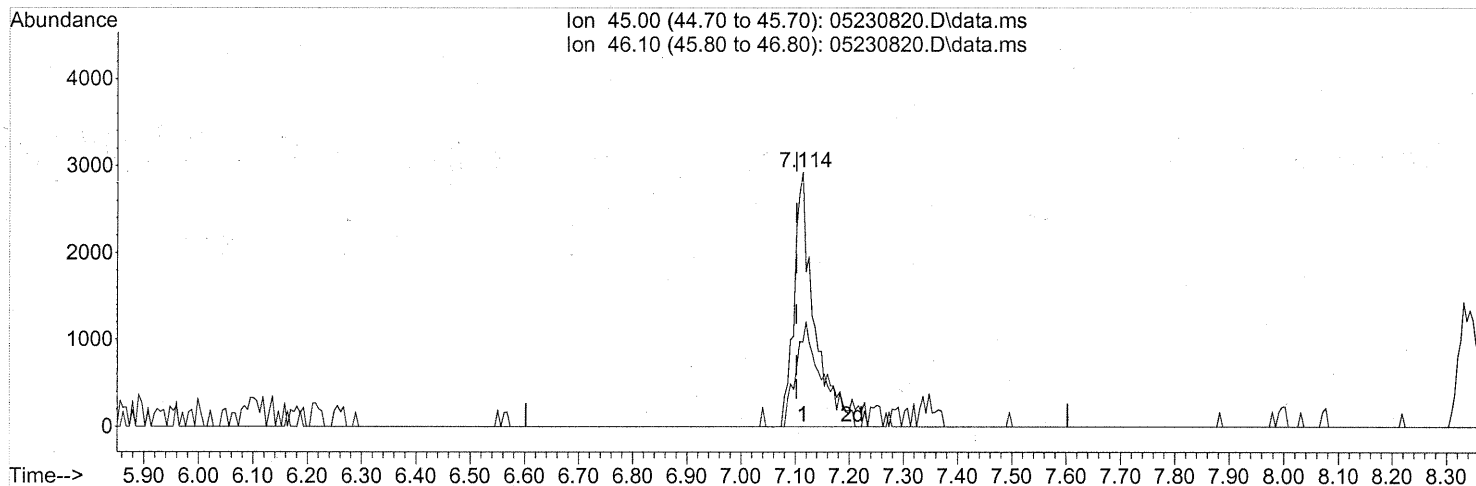
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	54.50
0.00	0.00	0.00
0.00	0.00	0.00

tailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230820.D\data.ms

(10) Ethanol (T)

7.114min (+0.011) 0.33ng m

response 7919

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	51.72
0.00	0.00	0.00
0.00	0.00	0.00

added tailing

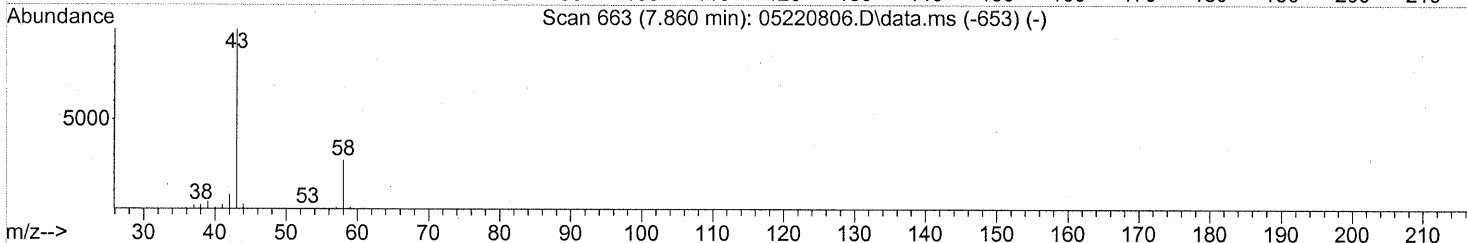
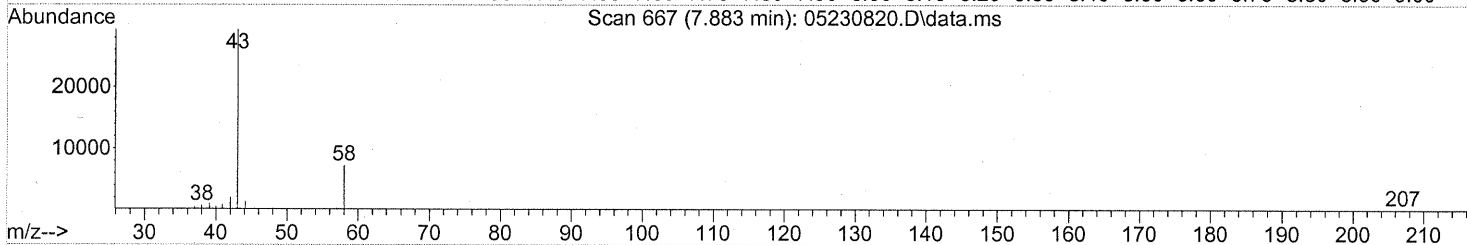
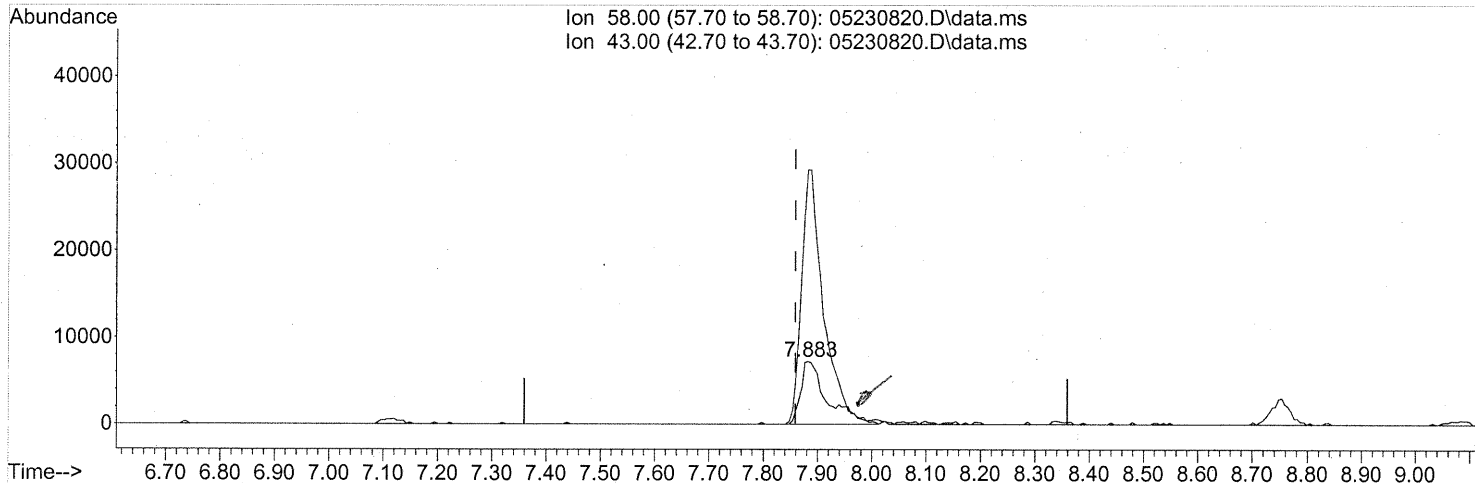
RT 5/30/08

RT 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230820.D\data.ms

(13) Acetone (T)

7.883min (+0.023) 0.98ng

response 24314

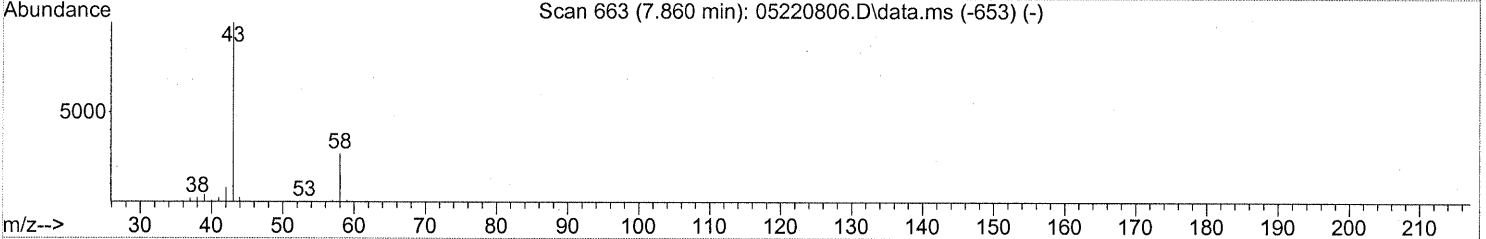
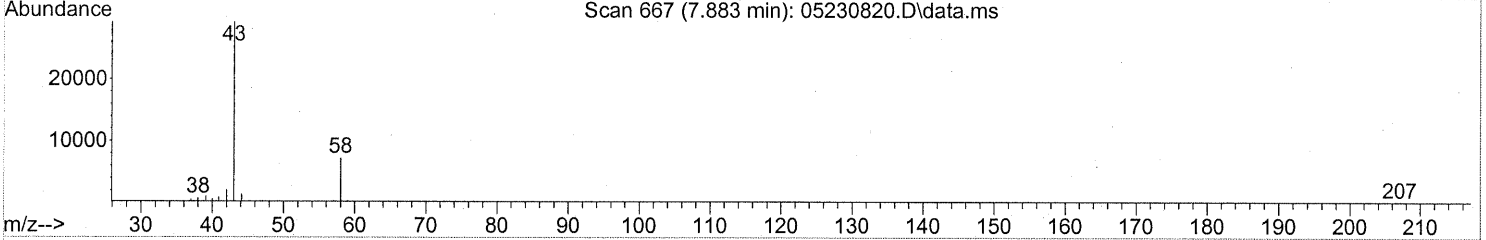
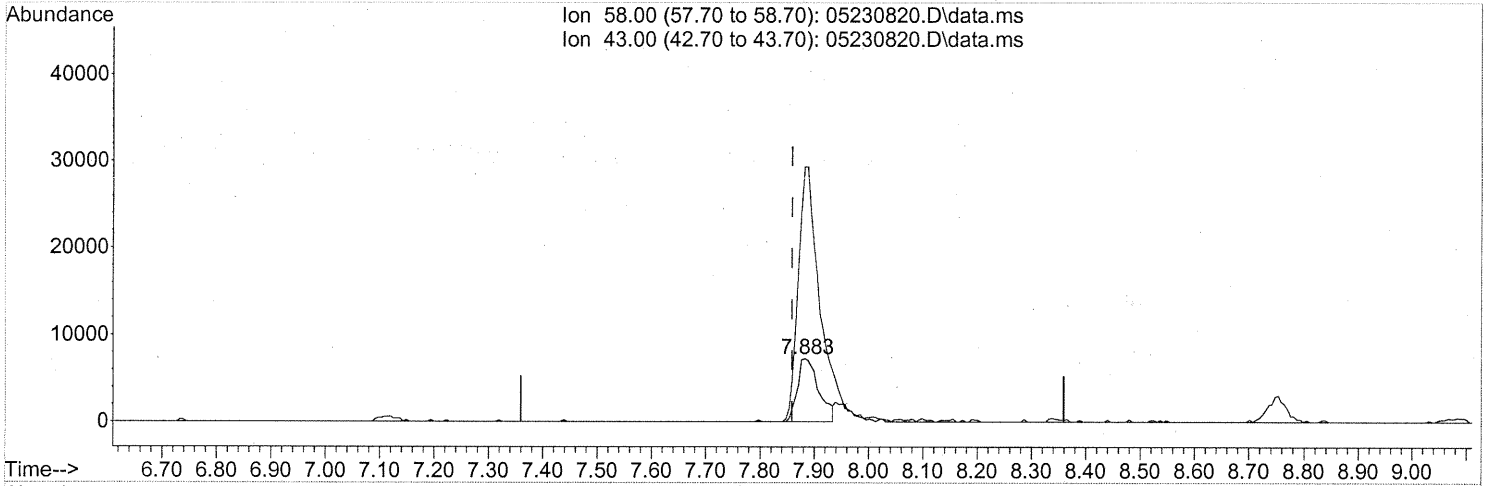
interf. shoulder

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	338.74#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230820.D\data.ms

(13) Acetone (T)
 7.883min (+0.023) 0.79ng m
 response 19687

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	418.36#
0.00	0.00	0.00
0.00	0.00	0.00

10/0 shoulder

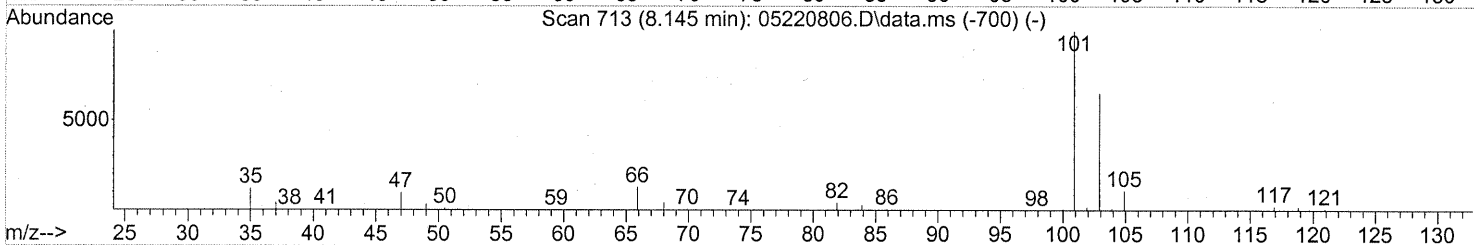
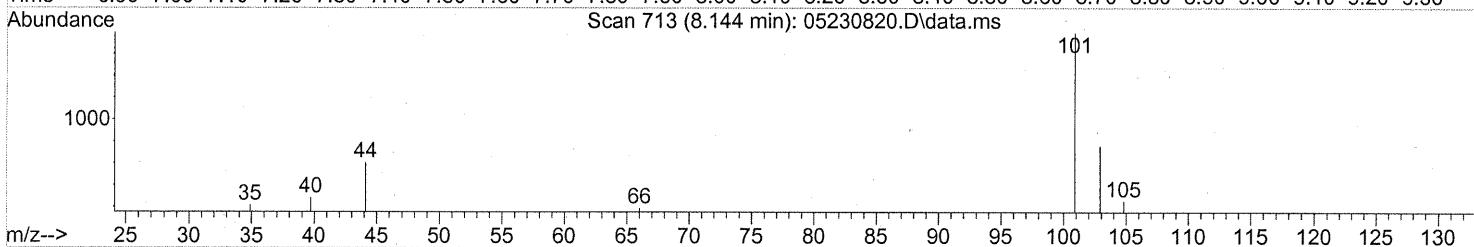
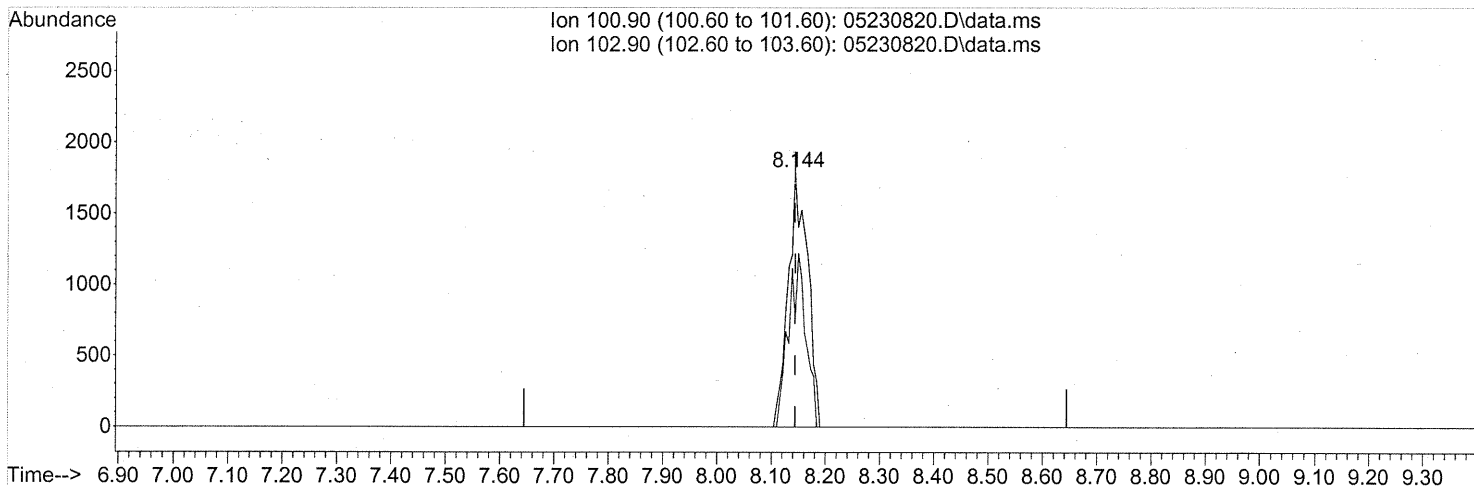
RT 5/30/08

P 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230820.D\data.ms

(14) Trichlorofluoromethane (T)

8.144min (-0.000) 0.08ng

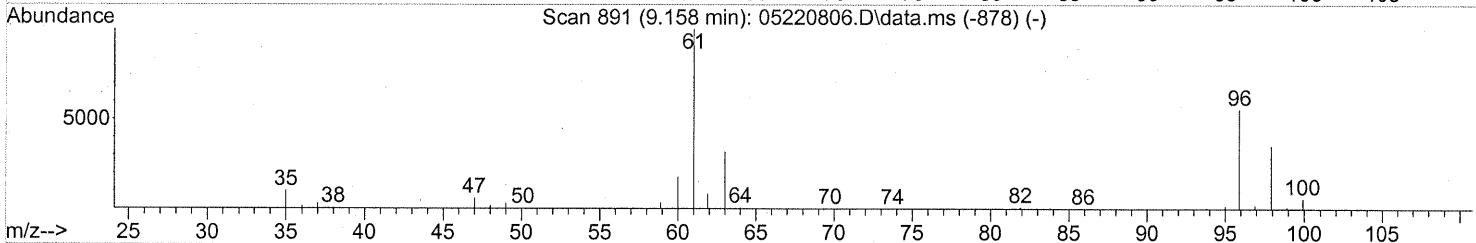
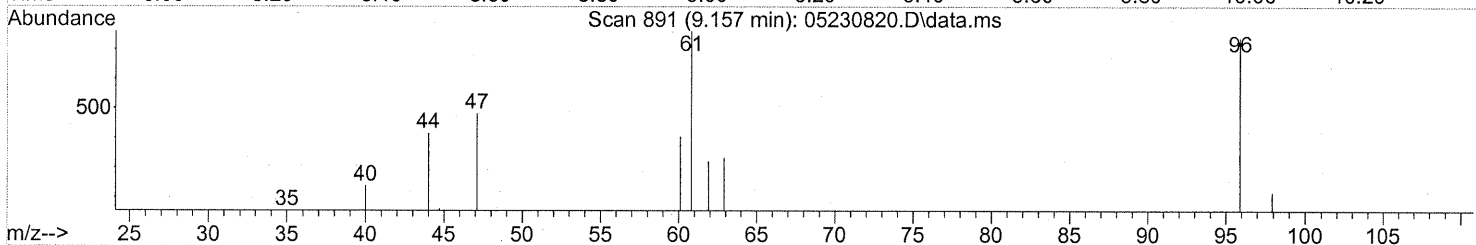
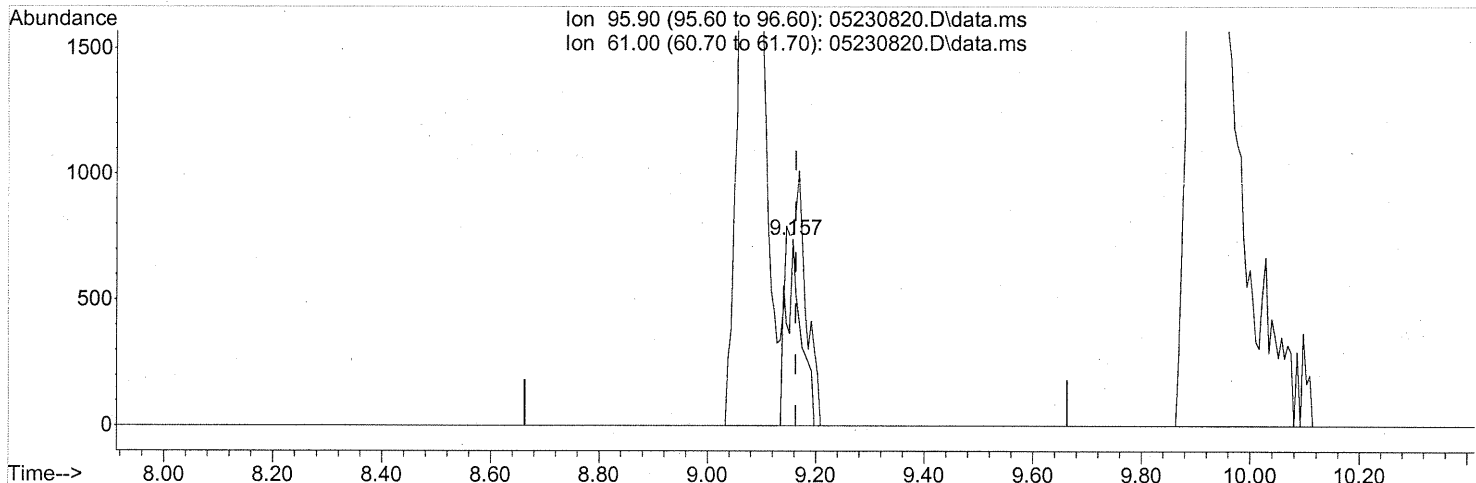
response 4446

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	60.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230820.D
Acq On : 23 May 2008 23:00
Operator : RTB
Sample : P0801483-003 (100mL)
Misc : ENSR SG81B-05 (-2.7, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05230820.D\data.ms

(17) 1,1-Dichloroethene (T)

9.157min (-0.006) 0.05ng

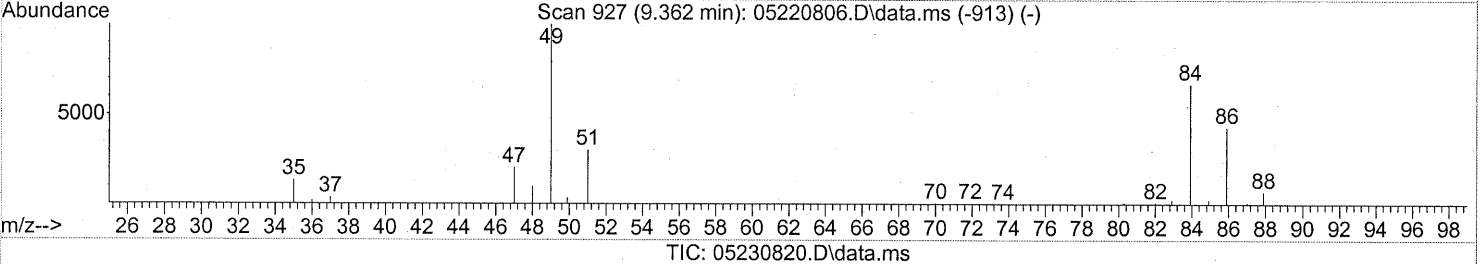
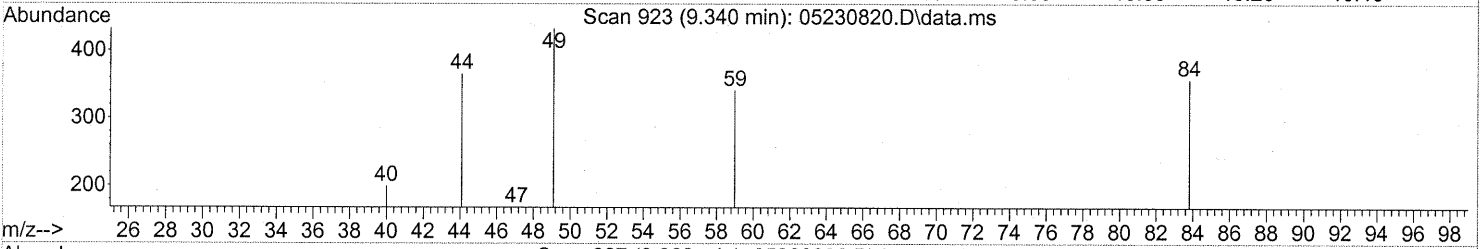
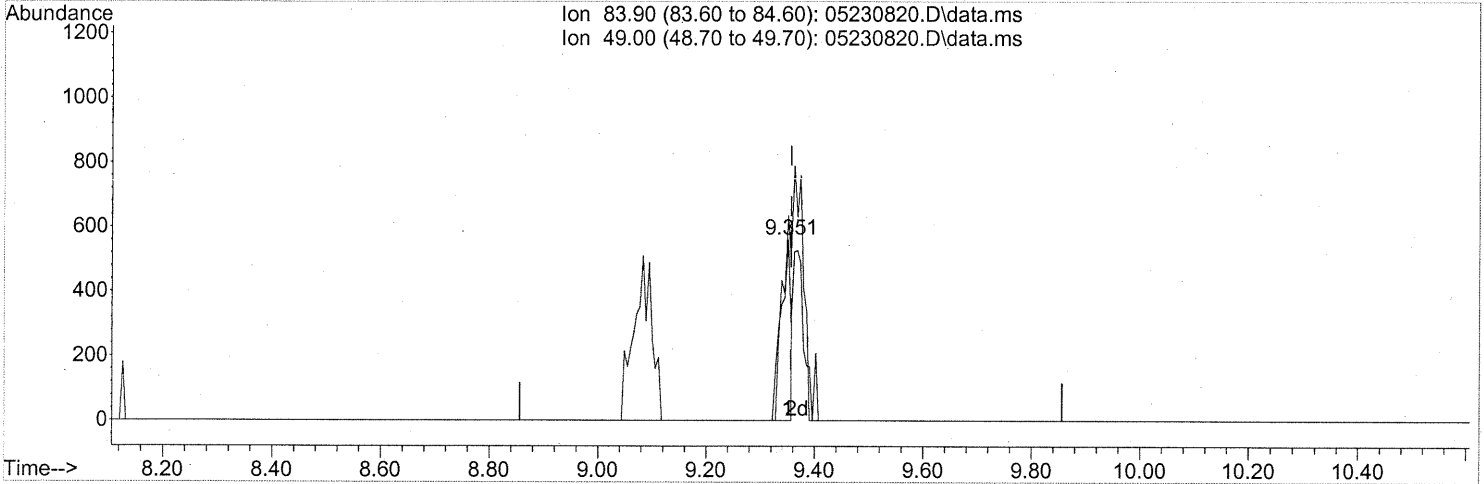
response 1387

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	181.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.351min (-0.006) 0.03ng

response 701

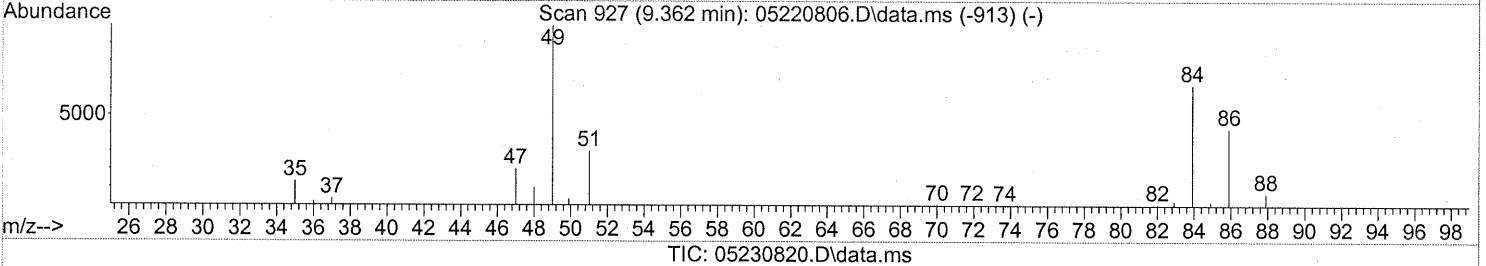
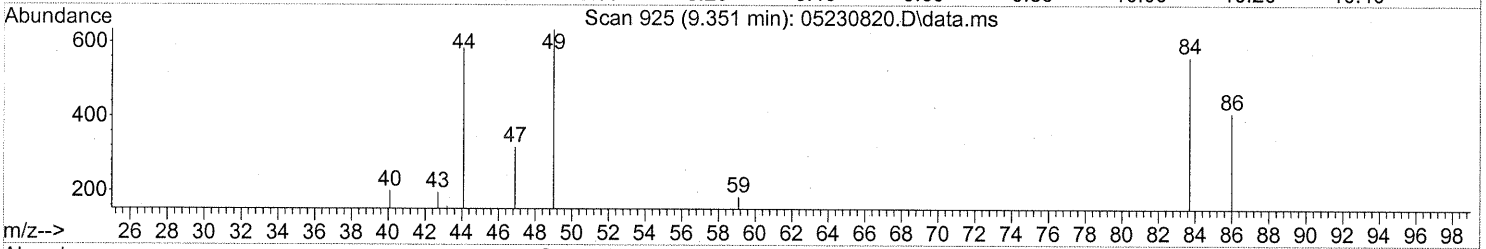
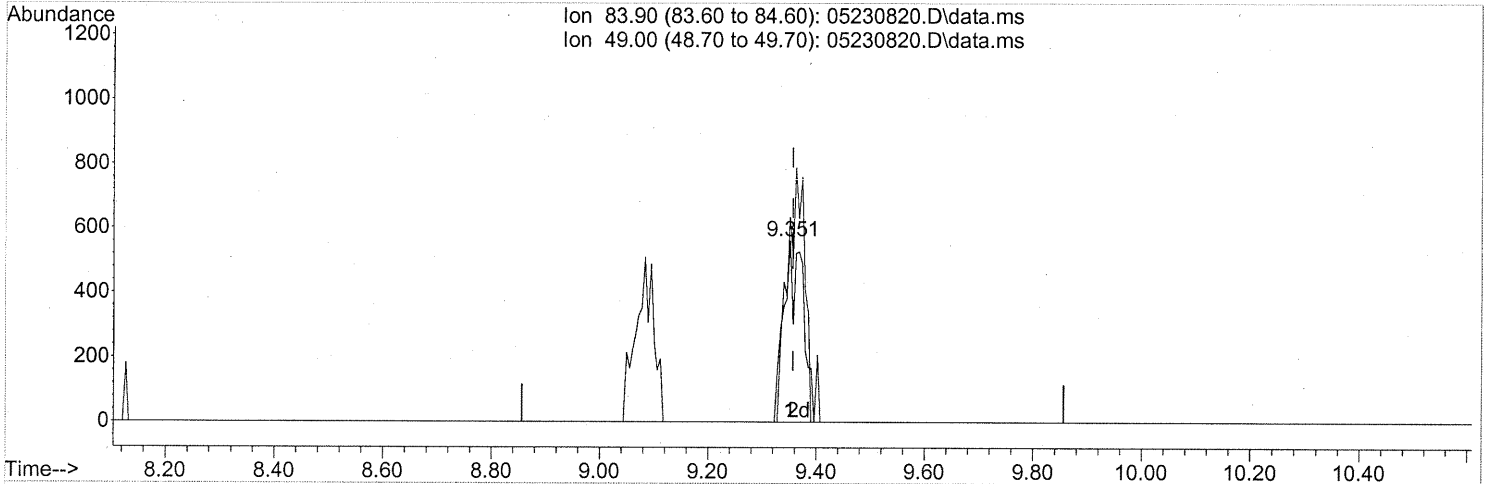
split plates

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230820.D
Acq On : 23 May 2008 23:00
Operator : RTB
Sample : P0801483-003 (100mL)
Misc : ENSR SG81B-05 (-2.7, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(19) Methylene Chloride (T)

9.351min (-0.006) 0.05ng m

response 1414

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

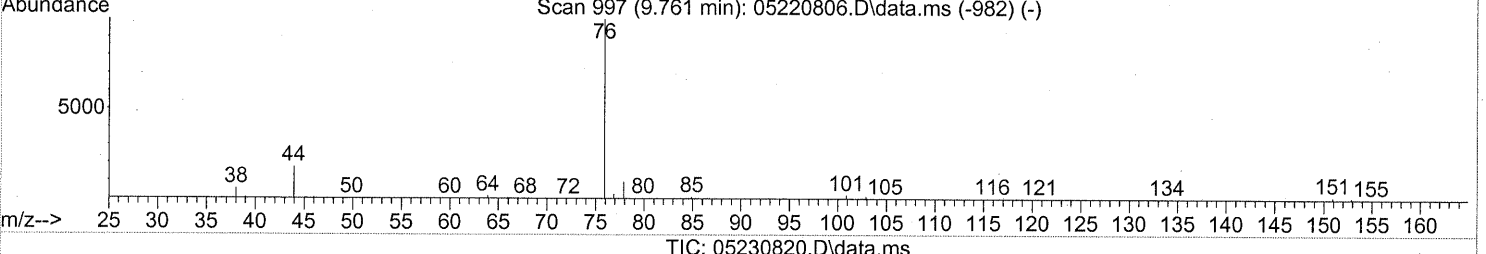
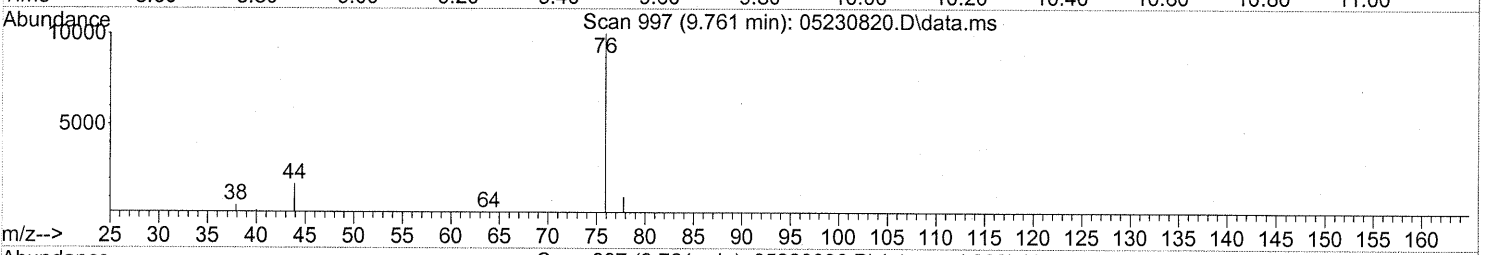
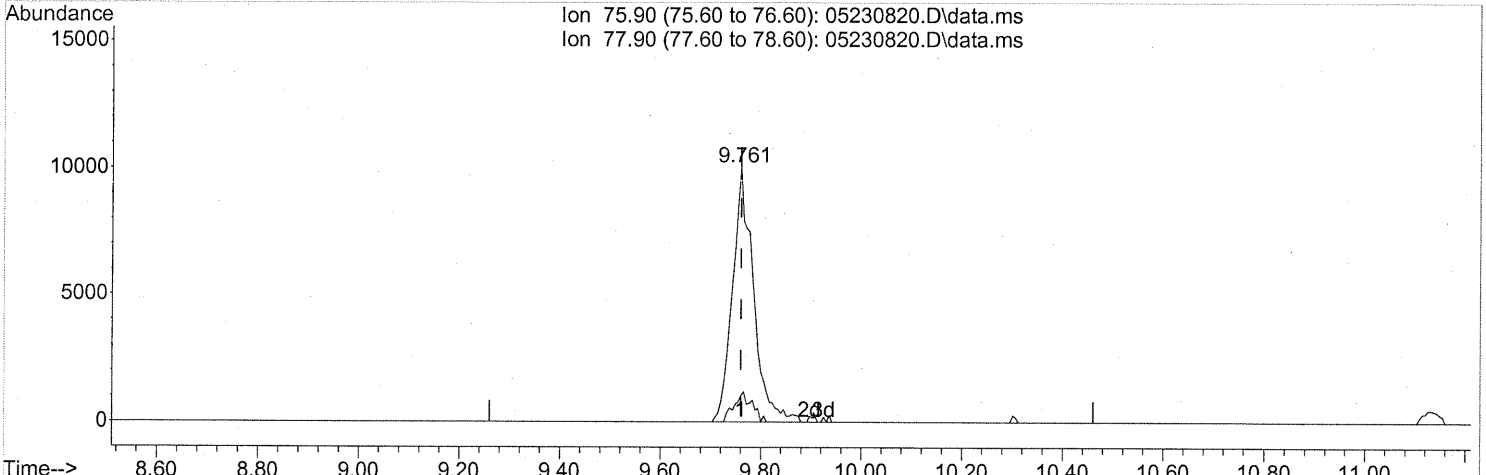
RT 5/30/08

P 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230820.D
Acq On : 23 May 2008 23:00
Operator : RTB
Sample : P0801483-003 (100mL)
Misc : ENSR SG81B-05 (-2.7, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



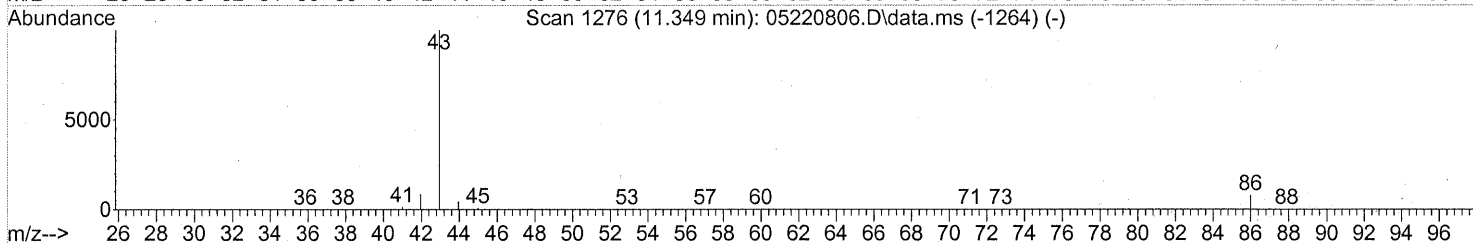
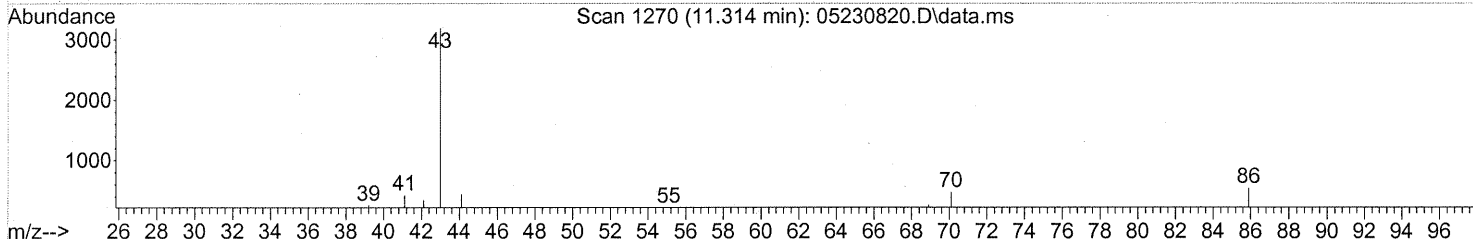
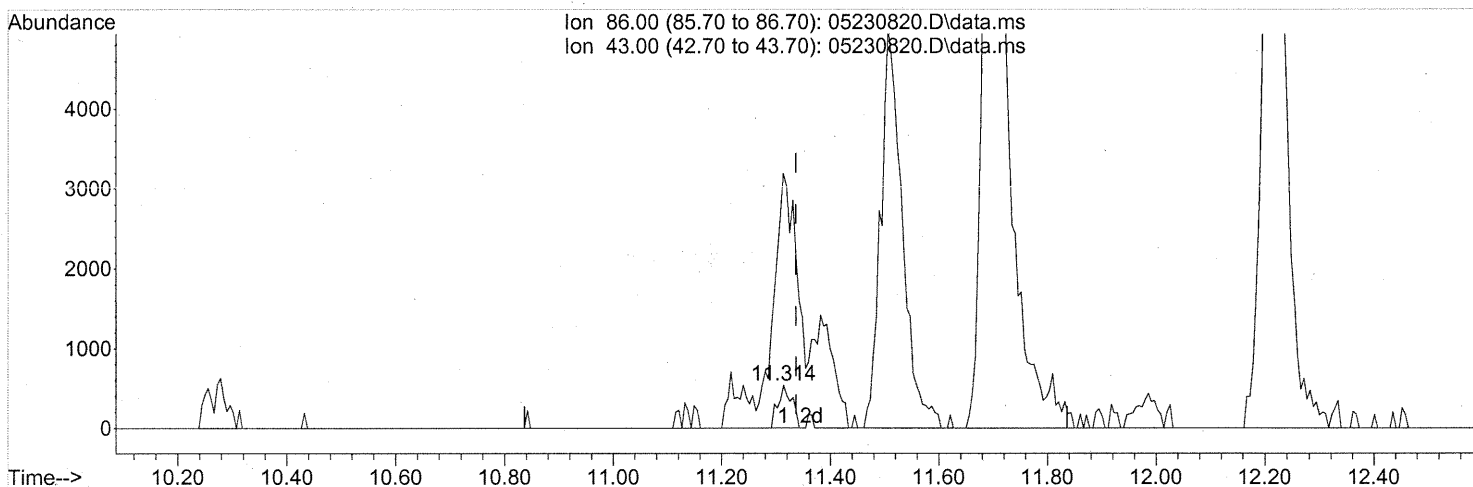
(22) Carbon Disulfide (T)
9.761min (-0.000) 0.28ng
response 29081

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.314min (-0.023) 0.20ng

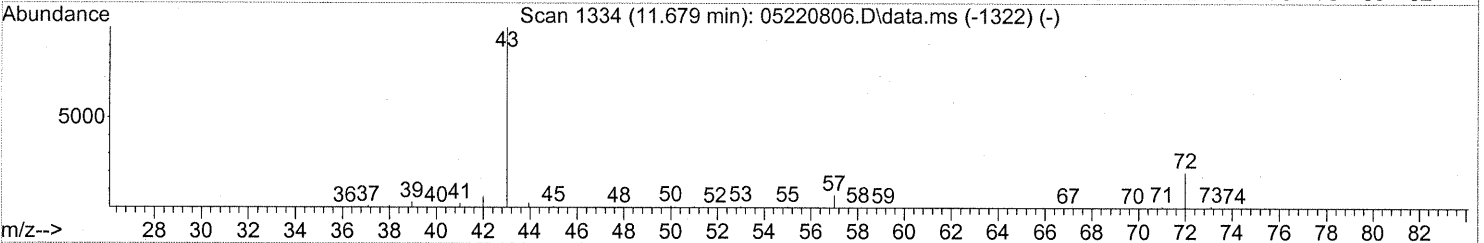
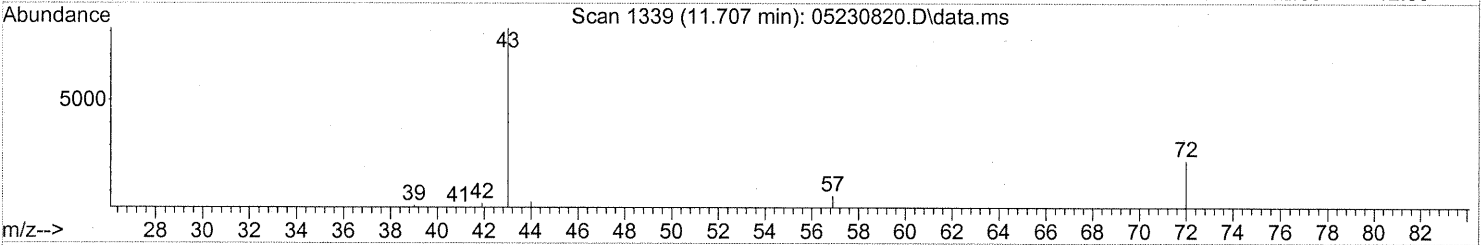
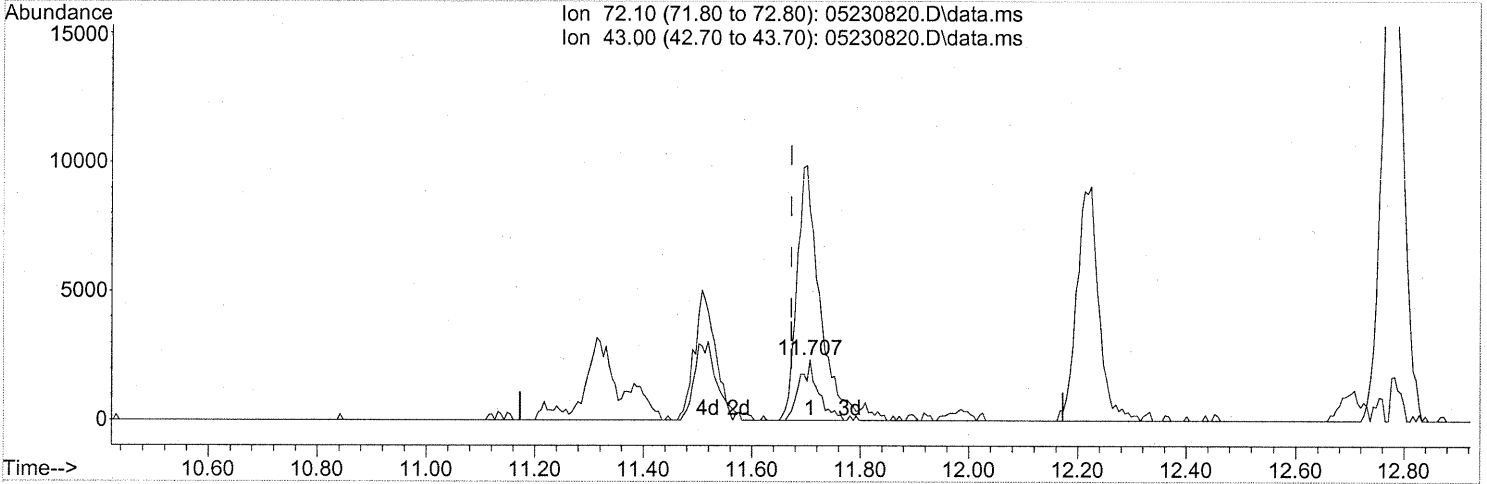
response 937

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	950.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 05230820.D\data.ms

(27) 2-Butanone (T)

11.707min (+0.034) 0.31ng

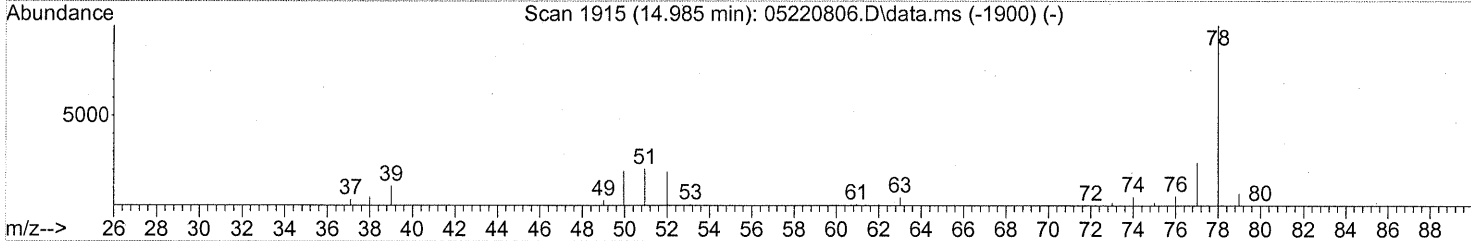
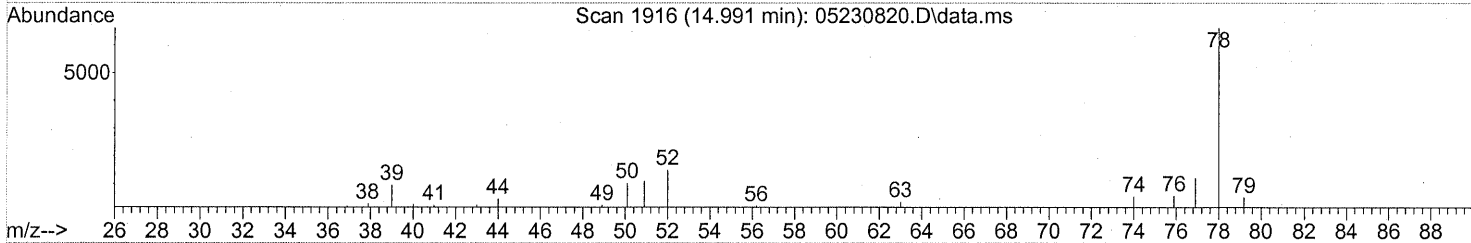
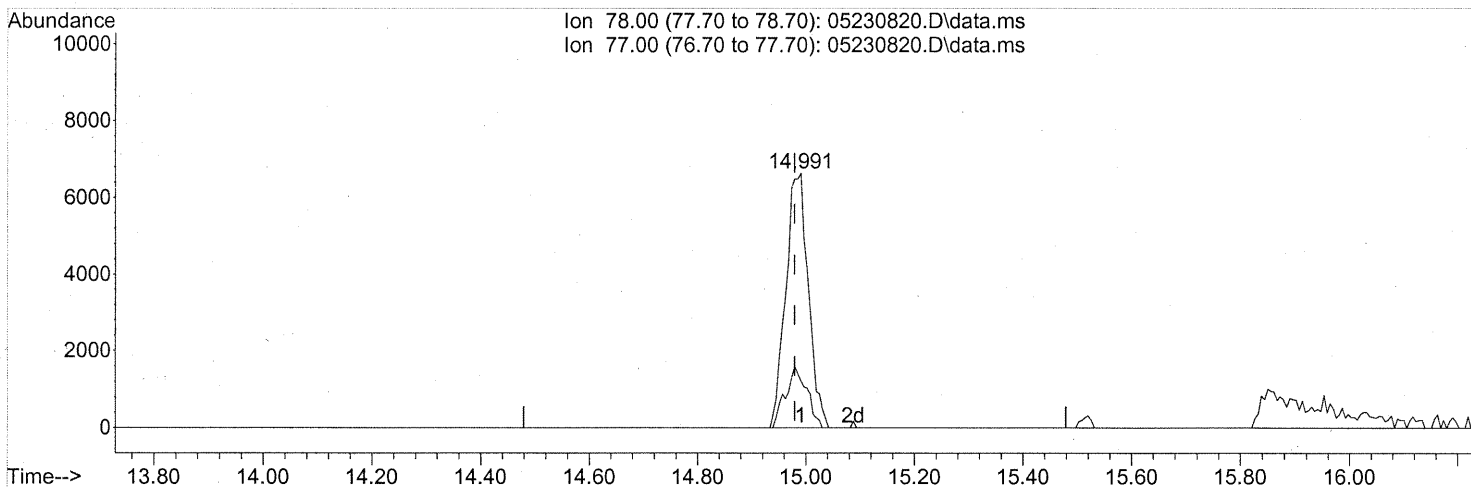
response 5605

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	514.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230820.D\data.ms

(41) Benzene (T)

14.991min (+0.011) 0.18ng

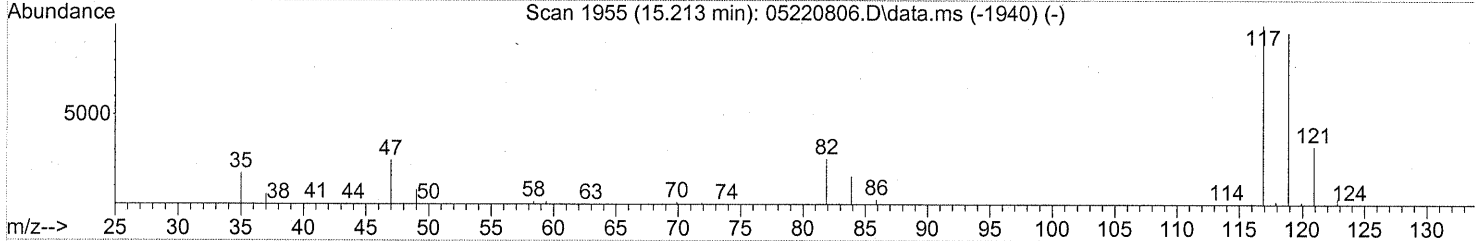
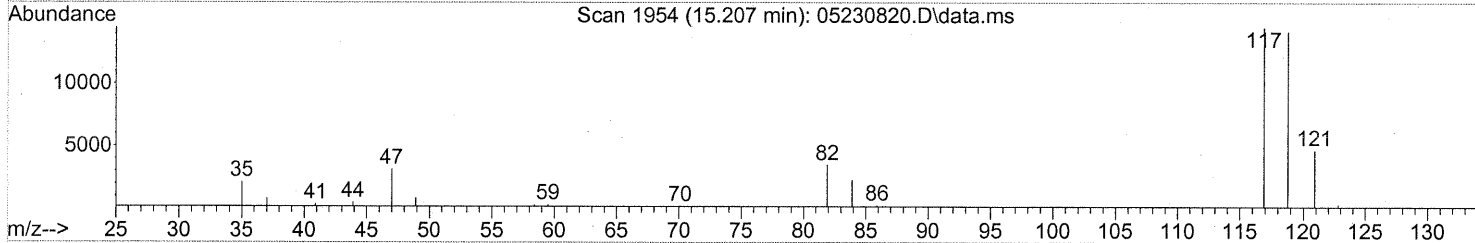
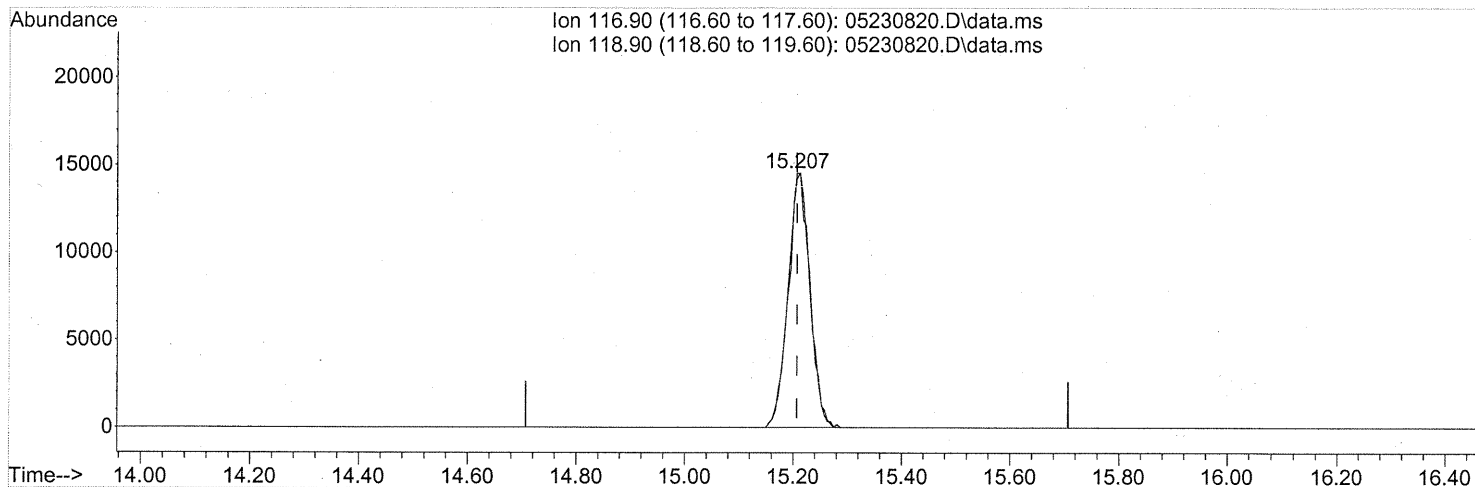
response 19085

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	22.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230820.D\data.ms

(42) Carbon Tetrachloride (T)

15.207min (-0.000) 1.00ng

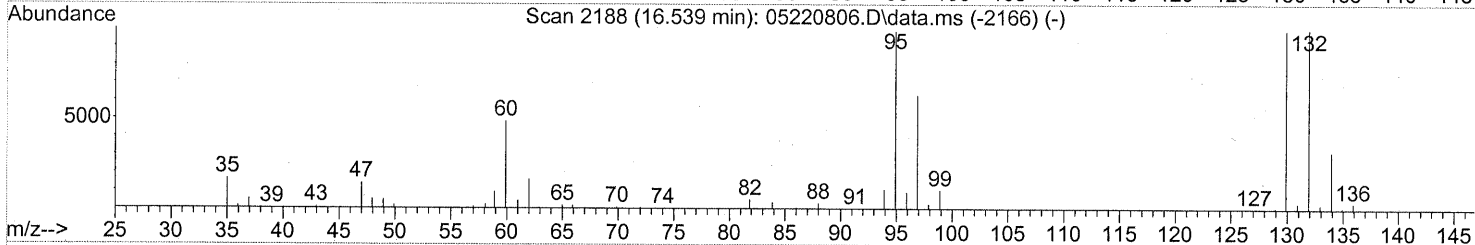
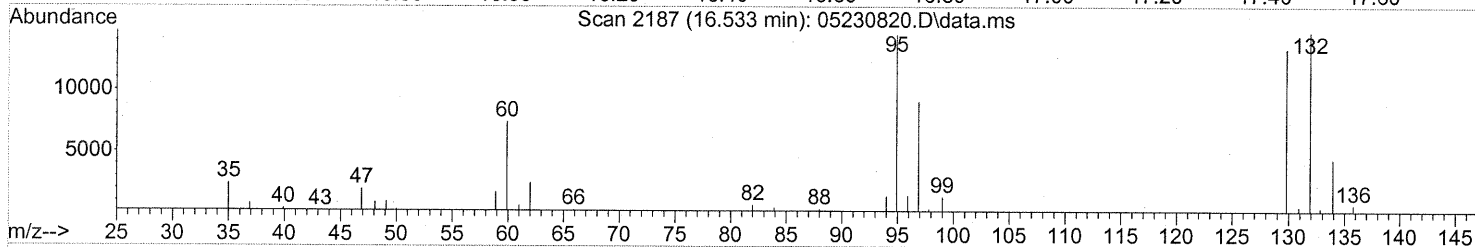
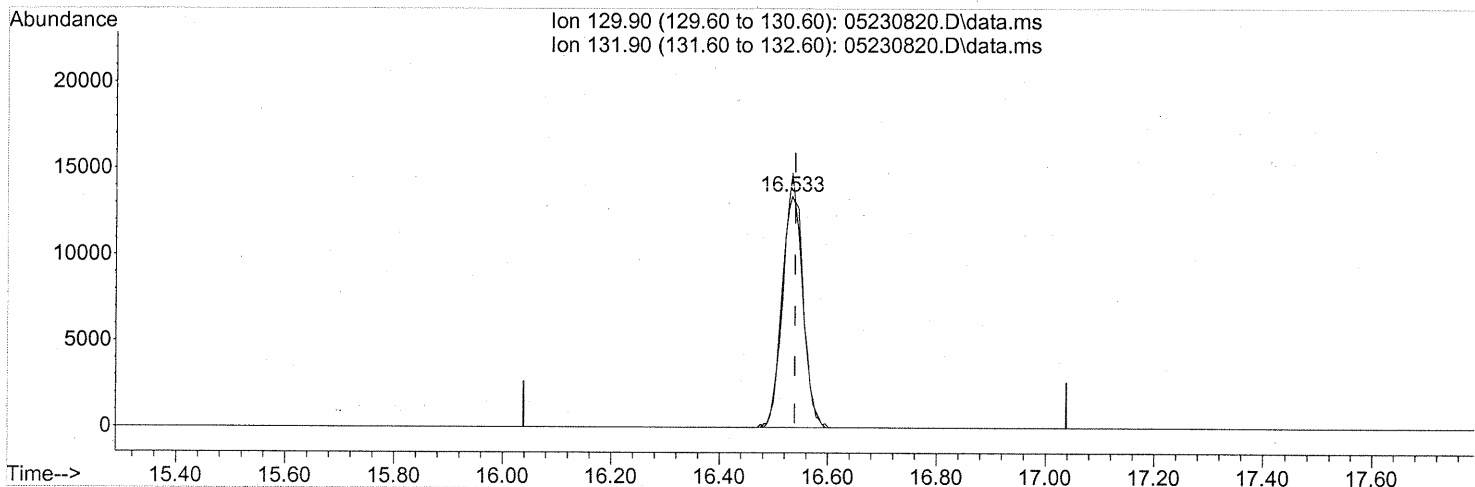
response 40186

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	101.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



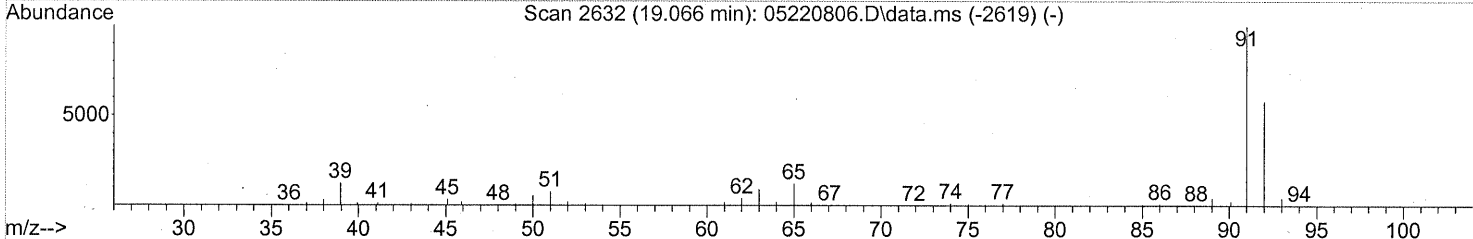
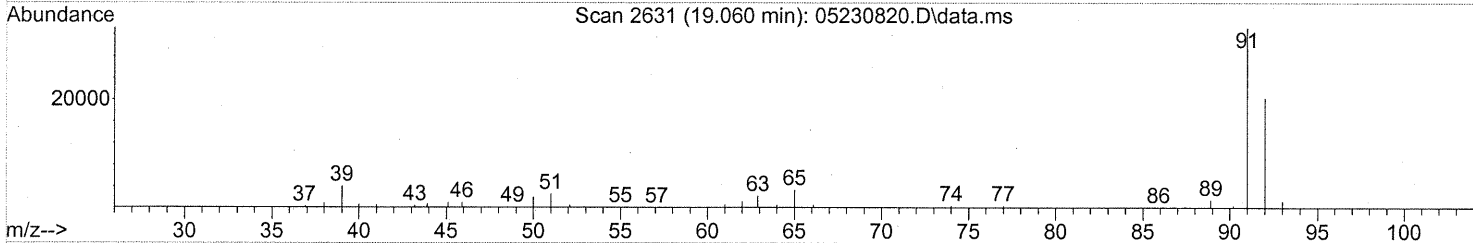
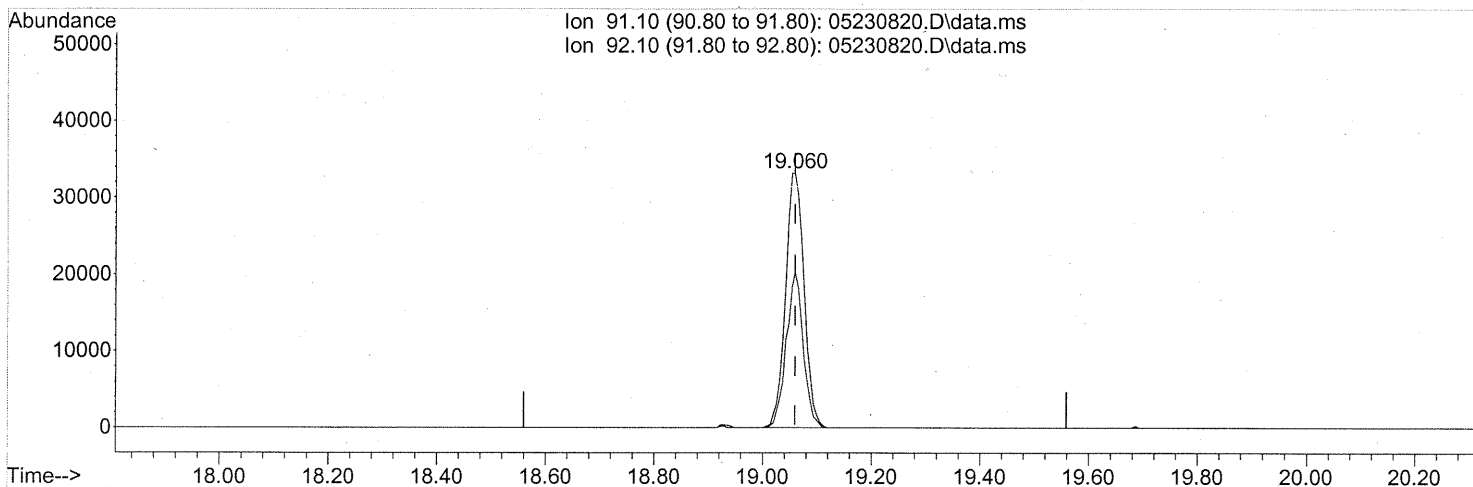
(47) Trichloroethene (T)
 16.533min (-0.006) 1.14ng
 response 36314

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



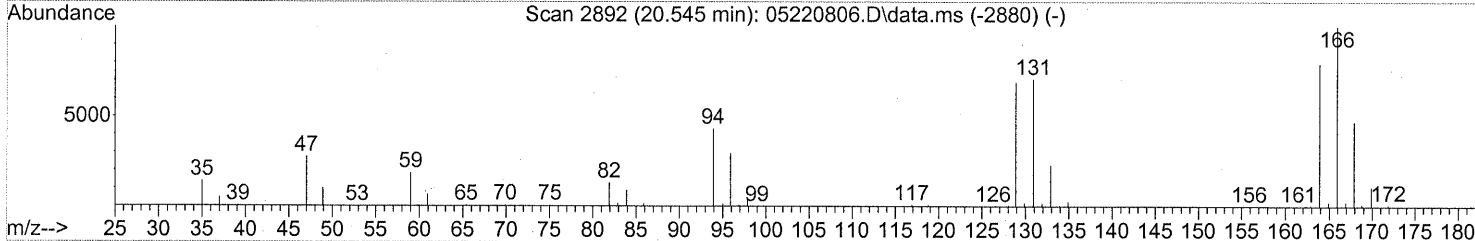
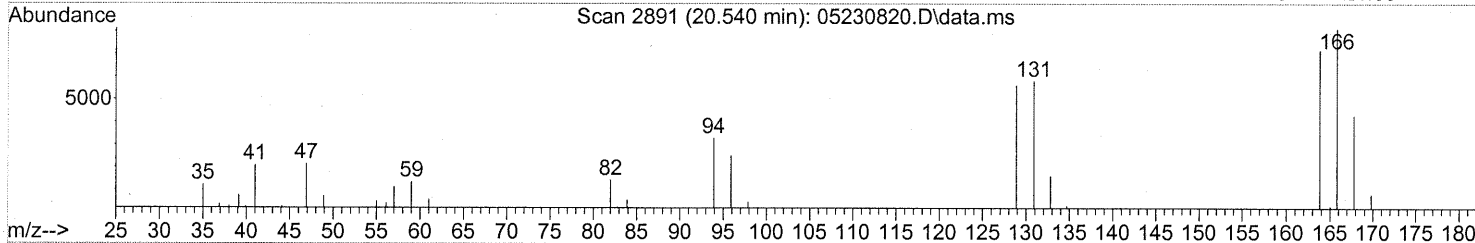
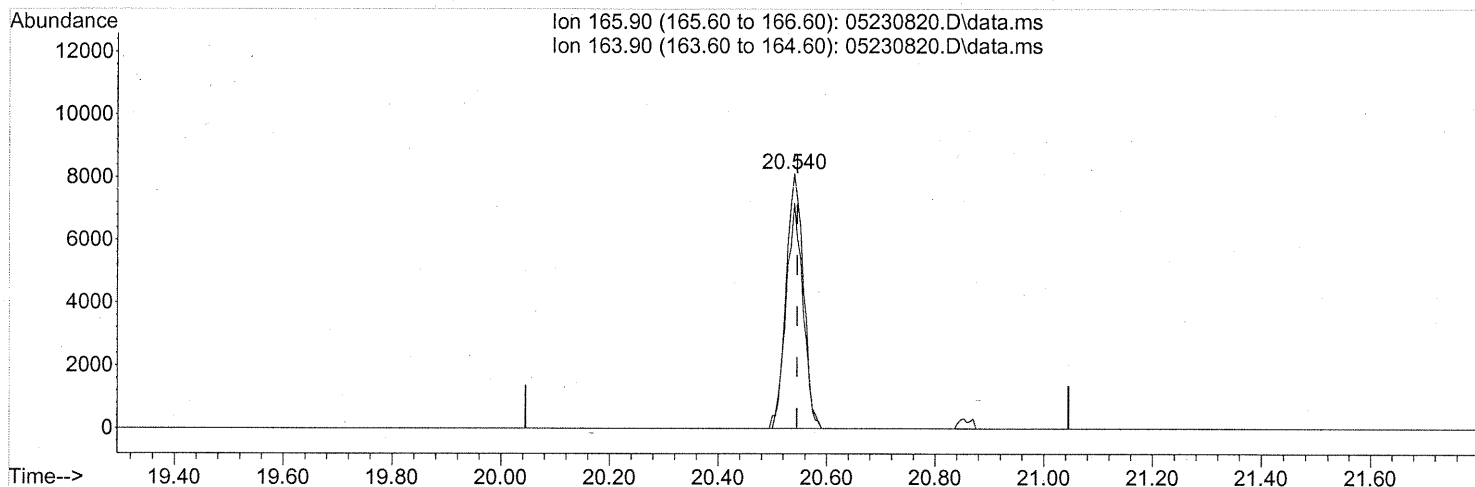
(58) Toluene (T)
 19.060min (-0.000) 0.69ng
 response 78658

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	55.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 0.53ng

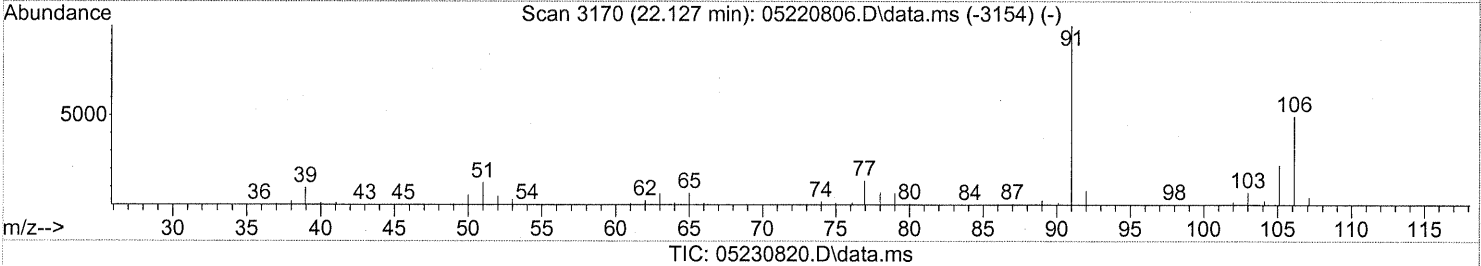
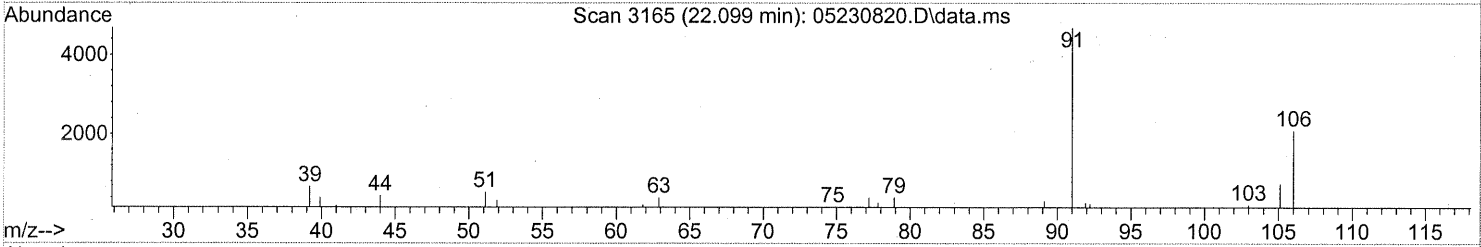
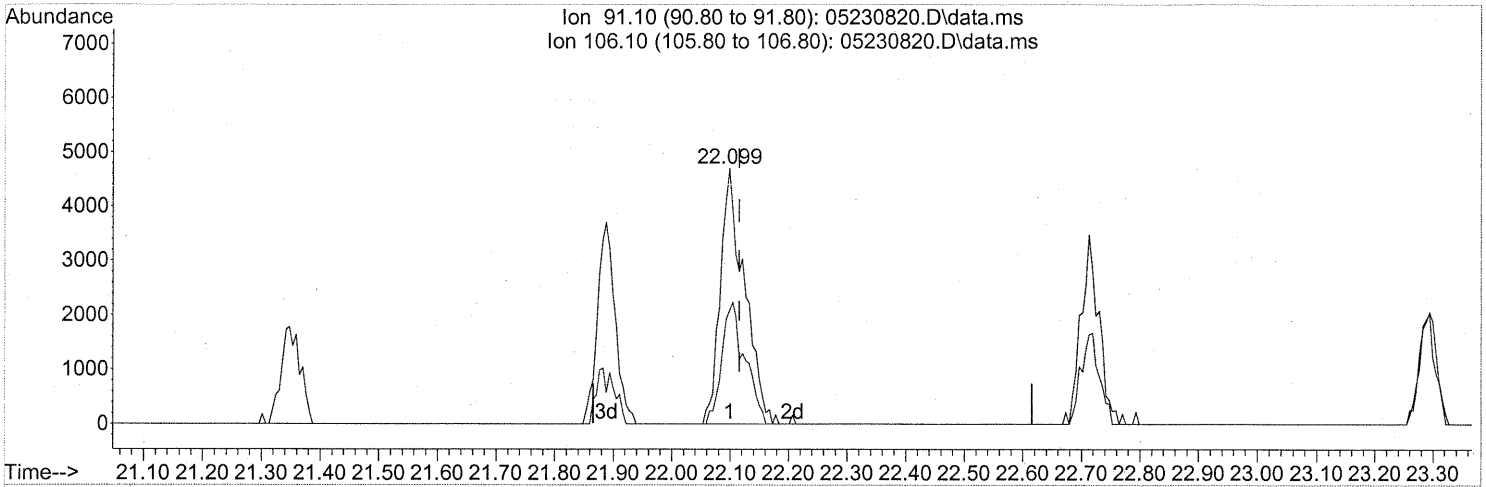
response 17937

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	86.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



(67) m- & p-Xylene (T)

22.099min (-0.017) 0.15ng

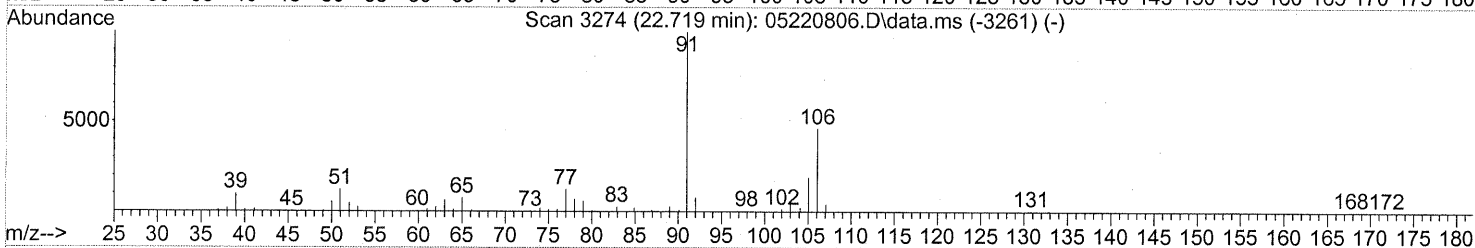
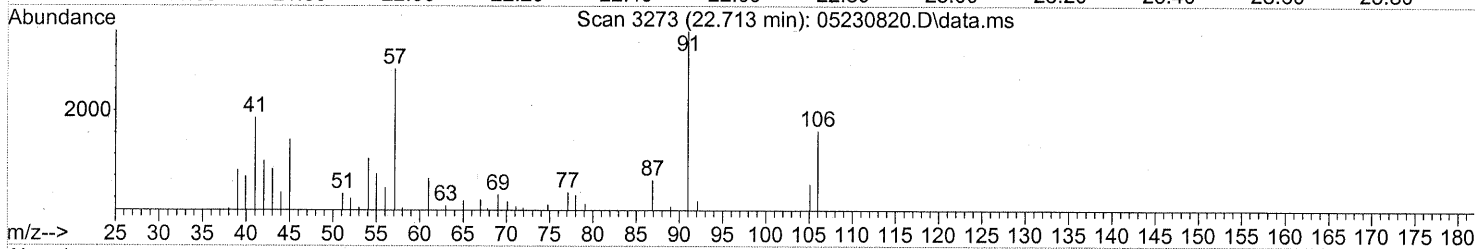
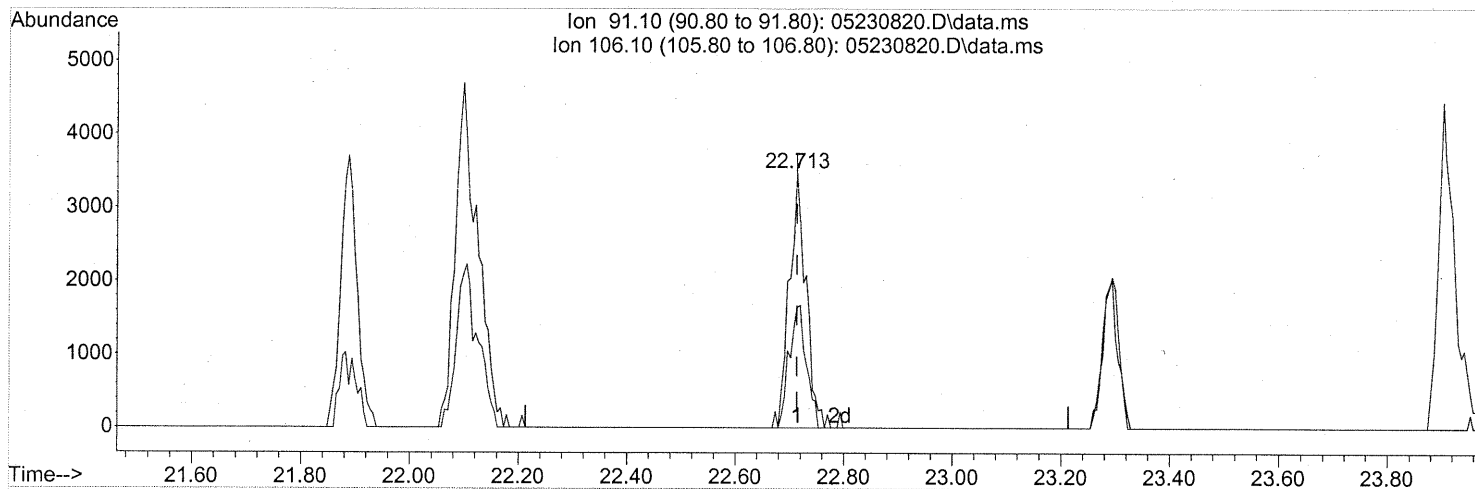
response 13381

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	45.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



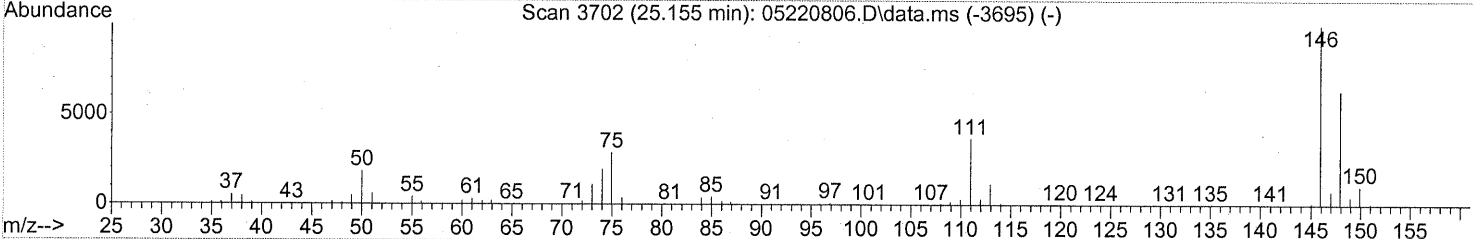
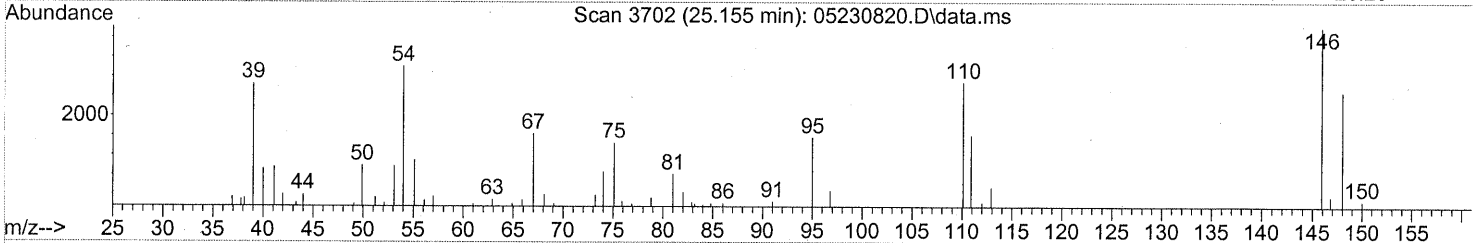
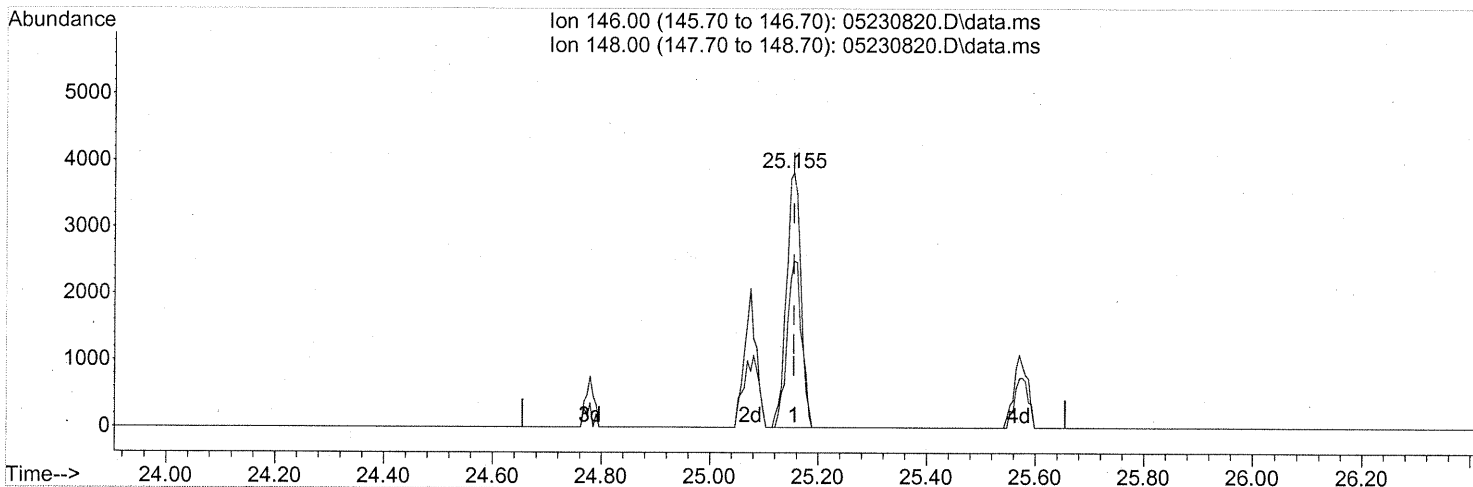
(70) o-Xylene (T)
 22.713min (-0.000) 0.08ng
 response 7414

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	48.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

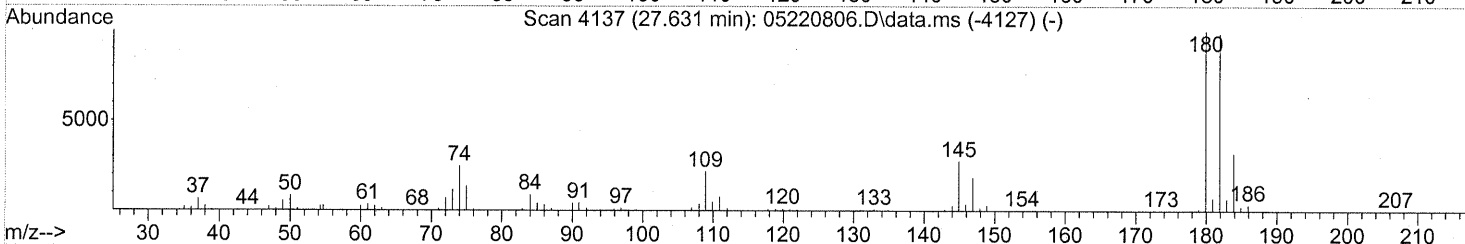
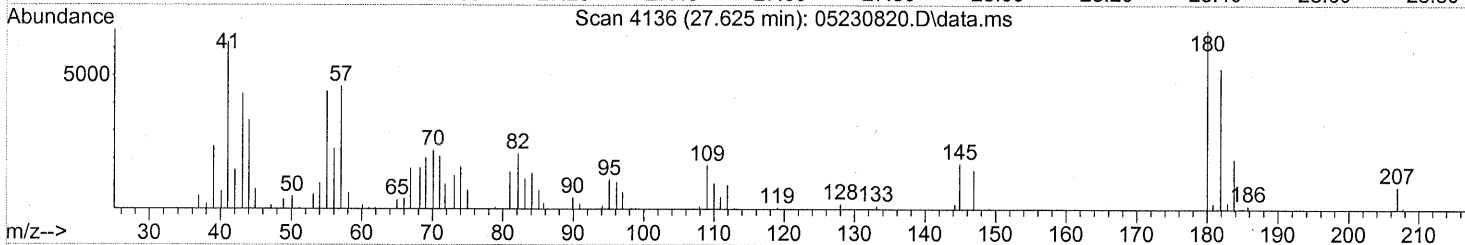
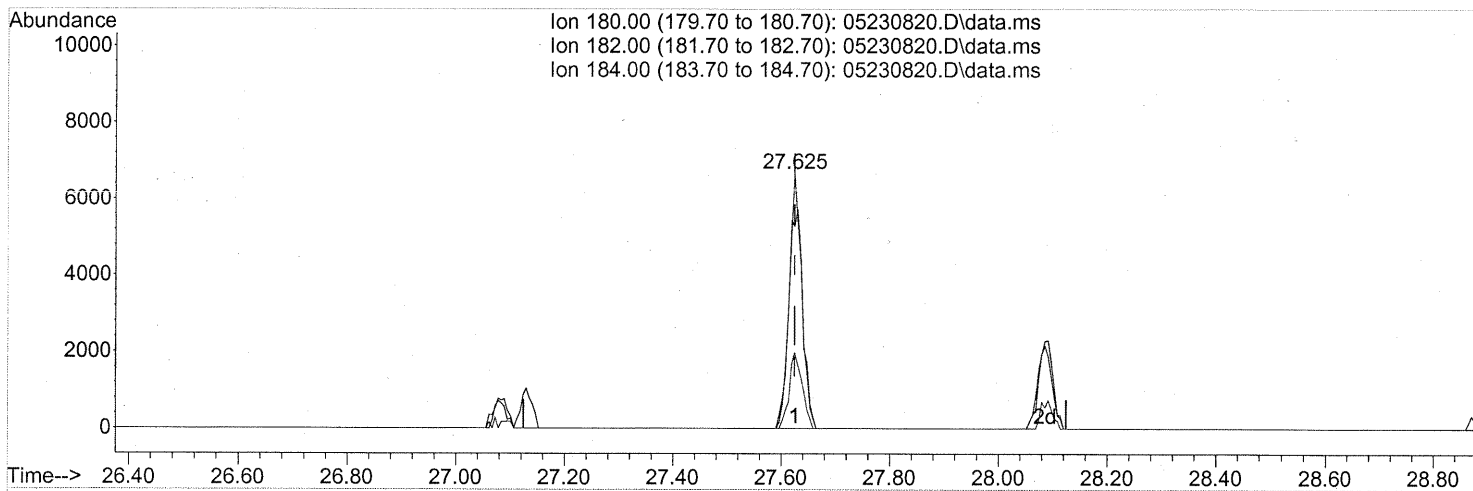
25.155min (-0.000) 0.10ng

response 7075

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	66.09
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230820.D\data.ms

(94) 1,2,4-Trichlorobenzene (T)

27.625min (-0.000) 0.21ng

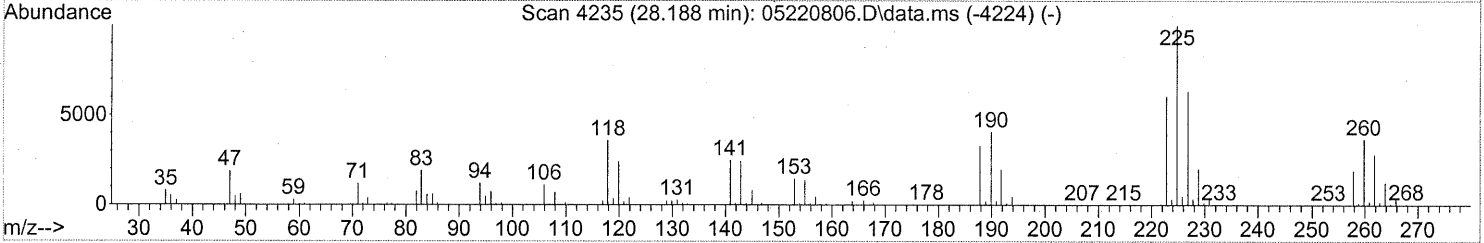
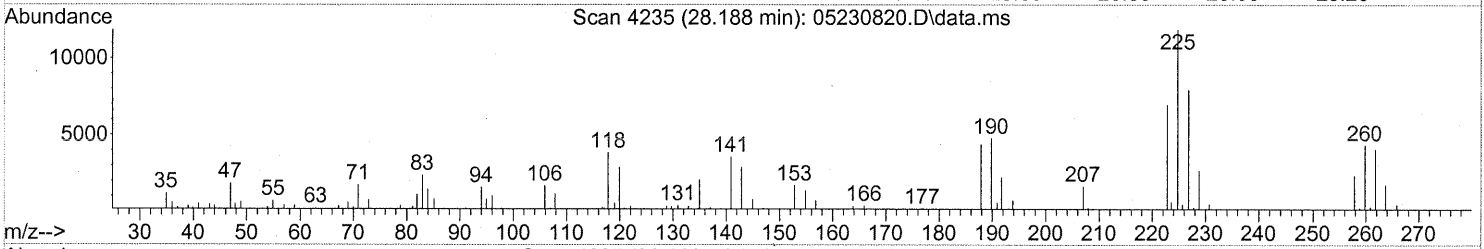
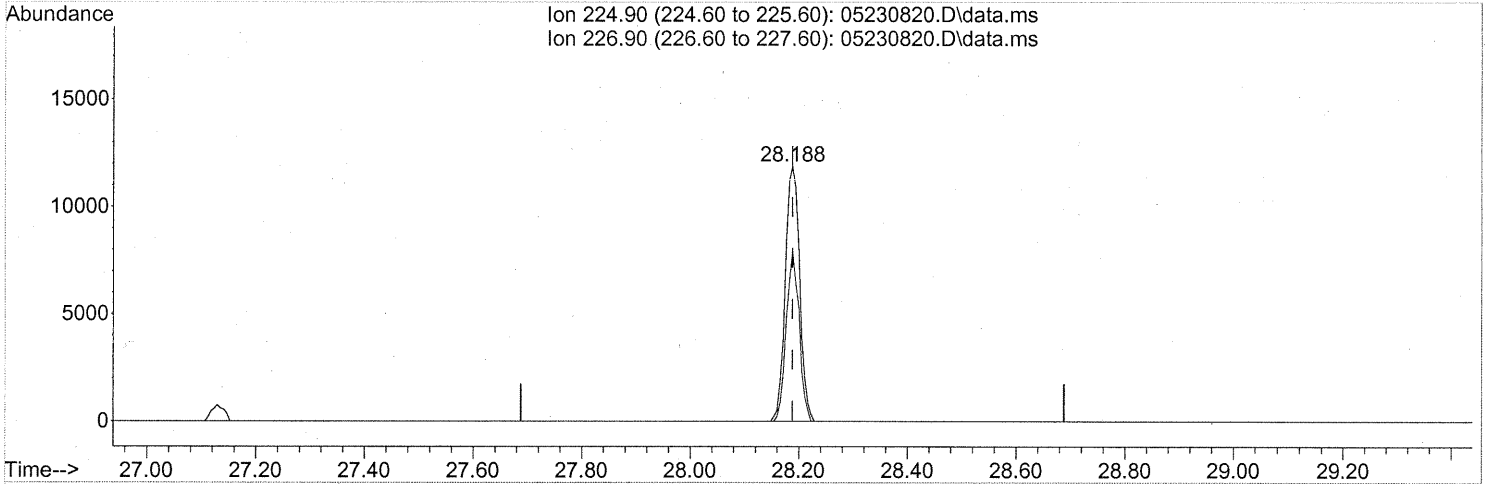
response 10702

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	99.37
184.00	30.30	30.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 08:18:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230820.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

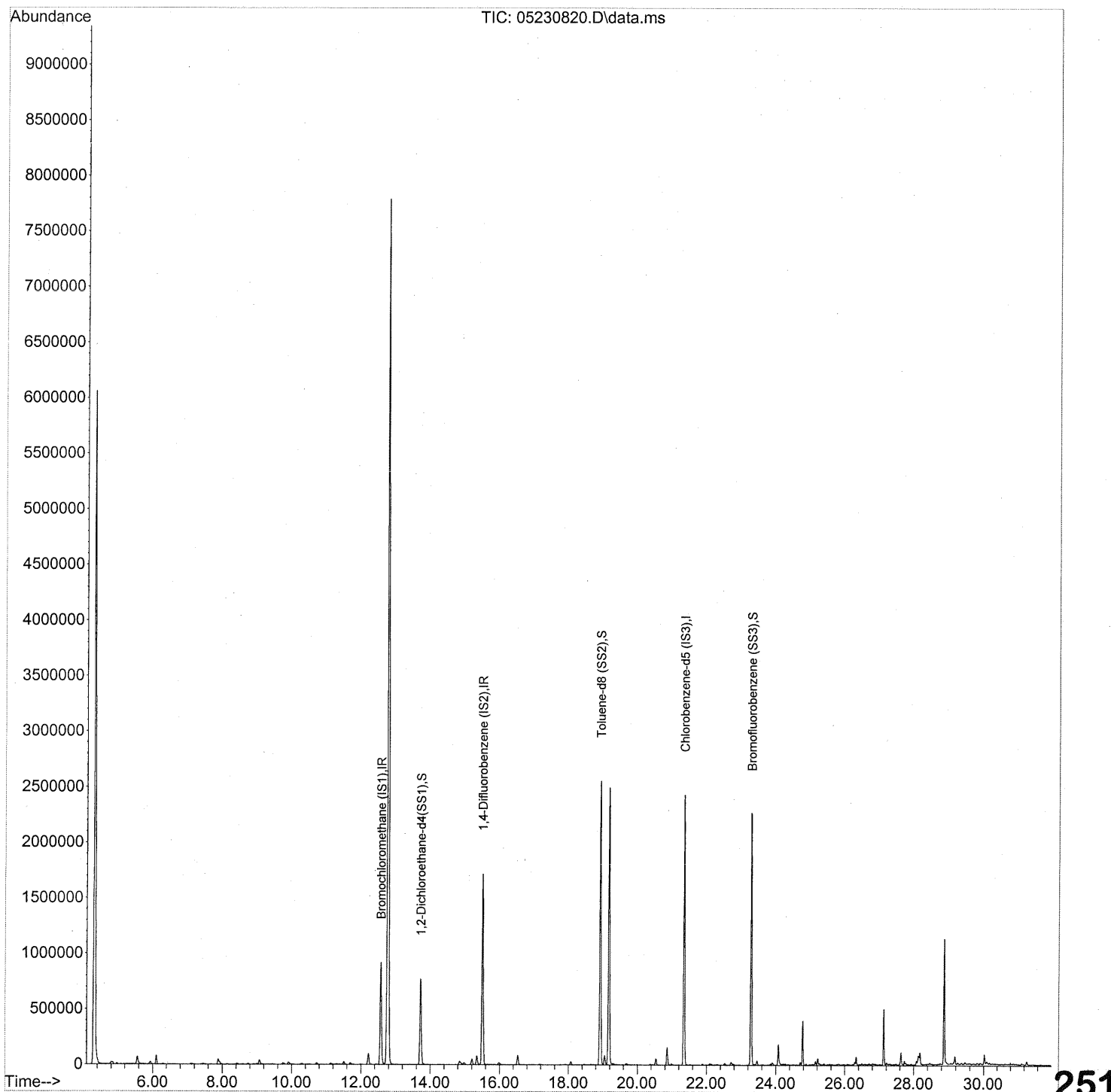
28.188min (-0.000) 0.66ng

response 21868

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	59.99
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230820.D
Acq On : 23 May 2008 23:00
Operator : RTB
Sample : P0801483-003 (100mL)
Misc : ENSR SG81B-05 (-2.7, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 02 17:17:21 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230820.D
 Acq On : 23 May 2008 23:00
 Operator : RTB
 Sample : P0801483-003 (100mL)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

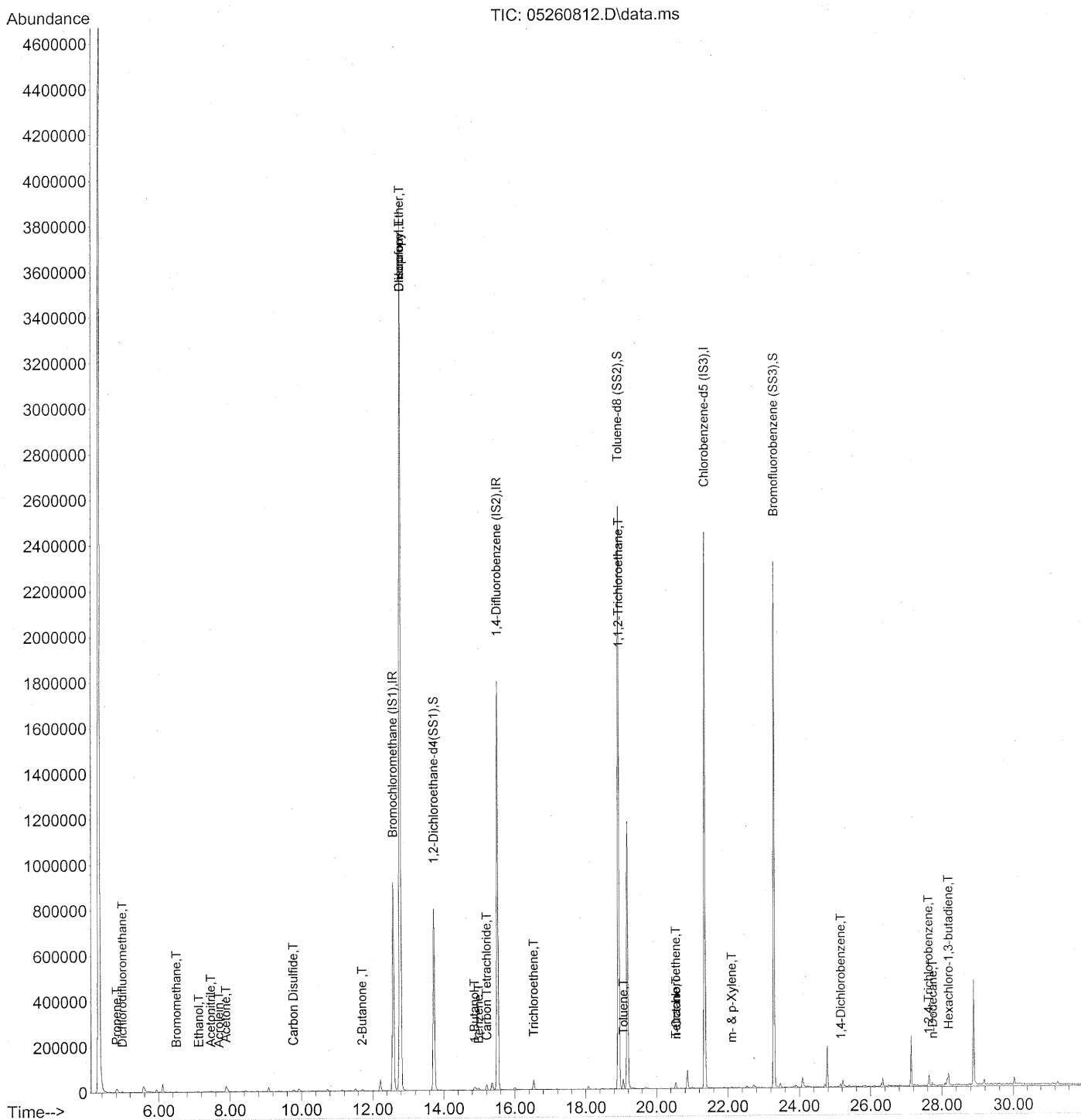
Quant Time: Jun 02 17:17:21 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) Bromochloromethane (IS1)	12.58	130	461344	25.000	ng	-0.02	
3) 1,4-Difluorobenzene (IS2)	15.51	114	1986639	25.000	ng	-0.02	
4) Chlorobenzene-d5 (IS3)	21.35	82	938952	25.000	ng	0.00	
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...)	13.72	65	779253	24.377	ng	-0.03	
Spiked Amount	25.000						Recovery = 97.52%
5) Toluene-d8 (SS2)	18.93	98	2115620	25.088	ng	-0.01	
Spiked Amount	25.000						Recovery = 100.36%
6) Bromofluorobenzene (SS3)	23.29	174	846737	24.692	ng	0.00	
Spiked Amount	25.000						Recovery = 98.76%
Target Compounds							
7) tert-Butylbenzene	24.88	119	541	N.D.			Qvalue
8) n-Butylbenzene	25.91	91	2029	N.D.			

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

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260812.D
 Acq On : 26 May 2008 19:17
 Operator : WA
 Sample : P0801483-003 Dil (50ml)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 27 06:13:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260812.D
 Acq On : 26 May 2008 19:17
 Operator : WA
 Sample : P0801483-003 Dil (50ml)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 27 06:13:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	474371	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2060003	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	950062	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	813272	24.743	ng	0.00
Spiked Amount	25.000		Recovery	=	98.96%	✓
57) Toluene-d8 (SS2)	18.92	98	2155316	25.260	ng	0.00
Spiked Amount	25.000		Recovery	=	101.04%	✓
73) Bromofluorobenzene (SS3)	23.29	174	867758	25.009	ng	0.00
Spiked Amount	25.000		Recovery	=	100.04%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.81	42	4901	0.131	ng	# 53
3) Dichlorodifluoromethane	4.98	85	4685	0.068	ng	94
4) Chloromethane	5.29	50	489	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.50	94	1302	0.052	ng	89
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	2775	0.111	ng	99
11) Acetonitrile	7.46	41	6558	0.091	ng	# 33
12) Acrolein	7.68	56	1164	0.065	ng	92
13) Acetone	7.88	58	15397	0.603	ng	# 82
14) Trichlorofluoromethane	8.16	101	1949	N.D.		
15) Isopropanol	8.34	45	820	N.D.		
16) Acrylonitrile	8.65	53	53	N.D.		
17) 1,1-Dichloroethene	9.16	96	393	N.D.		
18) tert-Butanol	9.29	59	1949	N.D.		
19) Methylene Chloride	9.37	84	1182	N.D.		
20) Allyl Chloride	9.46	41	131	N.D.		
21) Trichlorotrifluoroethane	9.82	151	444	N.D.		
22) Carbon Disulfide	9.77	76	17183	0.159	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.23	73	682	N.D.		
26) Vinyl Acetate	11.32	86	90	N.D.		
27) 2-Butanone	11.70	72	2864	0.154	ng	93
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	413691	18.114	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.71	57	1570	N.D.		

254

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260812.D
 Acq On : 26 May 2008 19:17
 Operator : WA
 Sample : P0801483-003 Dil (50ml)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 27 06:13:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	4045032	93.512 ng		99
34) Tetrahydrofuran	13.41	72	163	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.72	62	702	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.86	56	17036	0.602 ng	#	4
41) Benzene	14.98	78	10277	0.095 ng		98
42) Carbon Tetrachloride	15.21	117	19701	0.474 ng		98
43) Cyclohexane	15.42	84	219	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.46	83	334	N.D.		
47) Trichloroethene	16.53	130	19004	0.574 ng		94
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	1033	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	185107	6.945 ng	#	8
58) Toluene	19.06	91	37610	0.324 ng		96
59) 2-Hexanone	19.37	43	452	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.12	43	53	N.D.		
63) n-Octane	20.55	57	1881	0.073 ng	#	73
64) Tetrachloroethene	20.55	166	9054	0.264 ng		100
65) Chlorobenzene	21.42	112	126	N.D.		
66) Ethylbenzene	21.89	91	3593	N.D.		
67) m- & p-Xylene	22.10	91	6322	0.071 ng		87
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.58	104	384	N.D.		
70) o-Xylene	22.71	91	3535	N.D.		
71) n-Nonane	22.98	43	365	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.43	83	109	N.D.		
74) Cumene	23.46	105	434	N.D.		
75) alpha-Pinene	23.95	93	122	N.D.		
76) n-Propylbenzene	24.10	91	1602	N.D.		
77) 3-Ethyltoluene	24.23	105	2802	N.D.		
78) 4-Ethyltoluene	24.28	105	1998	N.D.		
79) 1,3,5-Trimethylbenzene	24.36	105	575	N.D.		

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260812.D
 Acq On : 26 May 2008 19:17
 Operator : WA
 Sample : P0801483-003 Dil (50ml)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 27 06:13:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

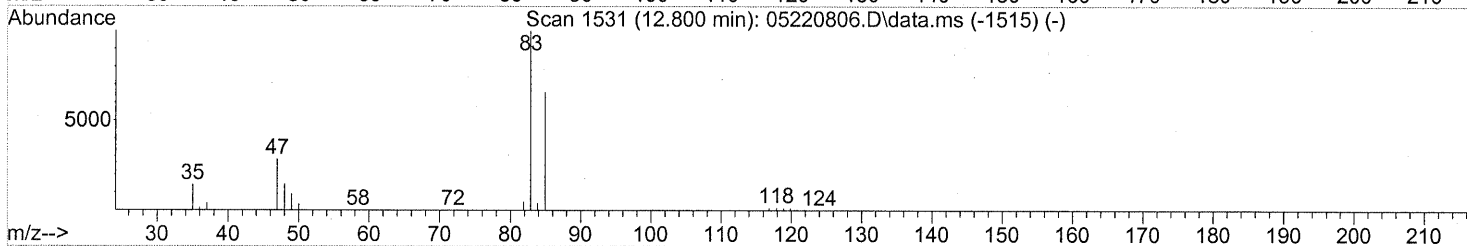
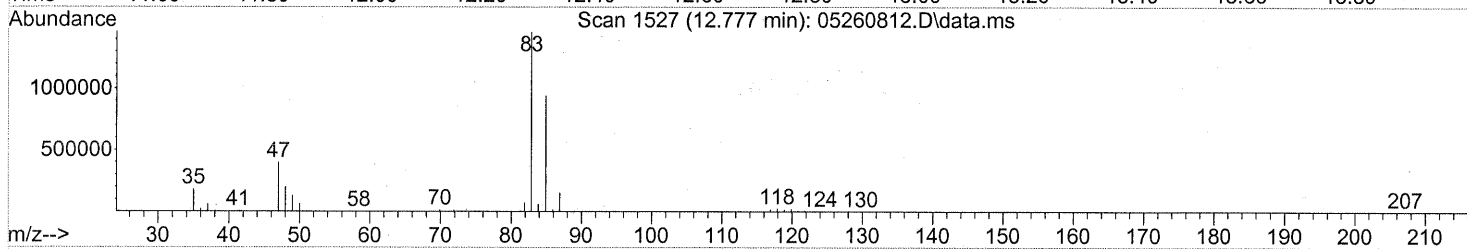
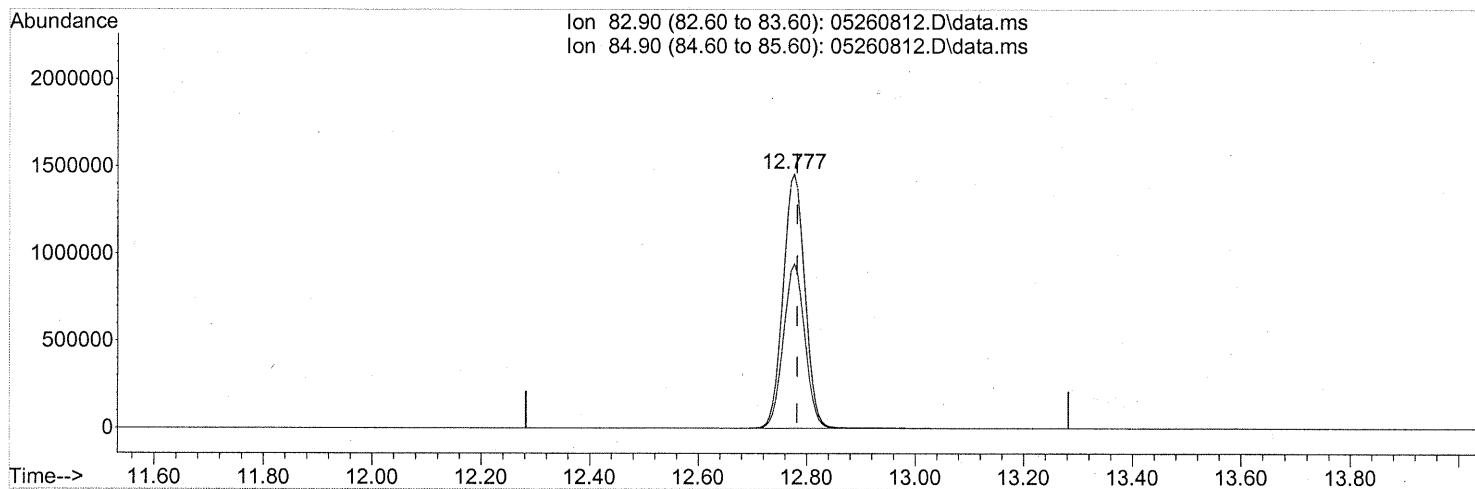
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.57	118	396		N.D.	
81) 2-Ethyltoluene	24.61	105	1959		N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	1589		N.D.	
83) n-Decane	24.98	57	1081		N.D.	
84) Benzyl Chloride	25.05	91	215		N.D.	
85) 1,3-Dichlorobenzene	25.07	146	1904		N.D.	
86) 1,4-Dichlorobenzene	25.16	146	3543	0.050	ng	88
87) sec-Butylbenzene	25.22	105	192		N.D.	
88) p-Isopropyltoluene	25.39	119	1412		N.D.	
89) 1,2,3-Trimethylbenzene	25.40	105	1562		N.D.	
90) 1,2-Dichlorobenzene	25.58	146	1097		N.D.	
91) d-Limonene	25.58	68	689		N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.51	57	2730		N.D.	
94) 1,2,4-Trichlorobenzene	27.63	180	4431	0.087	ng	95
95) Naphthalene	27.78	128	4487		N.D.	
96) n-Dodecane	27.74	57	5376	0.080	ng	84
97) Hexachloro-1,3-butadiene	28.19	225	10164	0.301	ng	93

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260812.D
 Acq On : 26 May 2008 19:17
 Operator : WA
 Sample : P0801483-003 Dil (50ml)
 Misc : ENSR SG81B-05 (-2.7, 3.5)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 27 06:13:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)
 12.777min (-0.006) 93.51ng
 response 4045032

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.88
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG79B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00265

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.77	0.077	0.43	0.15	0.015	
74-87-3	Chloromethane	0.20	0.15	0.077	0.096	0.074	0.037	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.093	0.77	0.077	0.013	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.15	0.077	ND	0.060	0.030	
74-83-9	Bromomethane	1.8	0.15	0.077	0.47	0.039	0.020	
75-00-3	Chloroethane	0.20	0.15	0.077	0.077	0.058	0.029	
64-17-5	Ethanol	14	7.7	0.077	7.7	4.1	0.041	B
67-64-1	Acetone	29	7.7	0.11	12	3.2	0.047	B
75-69-4	Trichlorofluoromethane	1.2	0.15	0.077	0.22	0.027	0.014	
107-13-1	Acrylonitrile	0.34	0.77	0.11	0.16	0.35	0.049	J
75-35-4	1,1-Dichloroethene	0.40	0.15	0.077	0.10	0.039	0.019	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	6.4	0.77	0.11	2.1	0.25	0.037	
75-09-2	Methylene Chloride	0.28	0.77	0.077	0.082	0.22	0.022	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.077	ND	0.049	0.024	
76-13-1	Trichlorotrifluoroethane	0.54	0.15	0.086	0.070	0.020	0.011	
75-15-0	Carbon Disulfide	62	0.77	0.18	20	0.25	0.059	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
75-34-3	1,1-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.077	ND	0.042	0.021	
108-05-4	Vinyl Acetate	2.1	7.7	0.24	0.60	2.2	0.070	J, M
78-93-3	2-Butanone (MEK)	9.1	0.77	0.077	3.1	0.26	0.026	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
108-20-3	Diisopropyl Ether	ND	0.77	0.090	ND	0.18	0.022	
67-66-3	Chloroform	140	0.15	0.090	29	0.031	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CA Date: 6/4/08 **258**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG79B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00265

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.77	0.078	ND	0.18	0.019	
107-06-2	1,2-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
71-43-2	Benzene	4.2	0.15	0.077	1.3	0.048	0.024	
56-23-5	Carbon Tetrachloride	10	0.15	0.077	1.6	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.77	0.077	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.077	ND	0.033	0.017	
75-27-4	Bromodichloromethane	ND	0.15	0.077	ND	0.023	0.011	
79-01-6	Trichloroethene	10	0.15	0.077	1.9	0.028	0.014	
123-91-1	1,4-Dioxane	ND	0.77	0.093	ND	0.21	0.026	
80-62-6	Methyl Methacrylate	ND	0.77	0.11	ND	0.19	0.028	
142-82-5	n-Heptane	0.49	0.77	0.098	0.12	0.19	0.024	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.080	ND	0.17	0.018	
108-10-1	4-Methyl-2-pentanone	1.0	0.77	0.086	0.25	0.19	0.021	
10061-02-6	trans-1,3-Dichloropropene	ND	0.77	0.096	ND	0.17	0.021	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
108-88-3	Toluene	14	0.77	0.077	3.7	0.20	0.020	
591-78-6	2-Hexanone	0.85	0.77	0.12	0.21	0.19	0.028	
124-48-1	Dibromochloromethane	ND	0.15	0.10	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.083	ND	0.020	0.011	
111-65-9	n-Octane	0.97	0.77	0.077	0.21	0.16	0.016	
127-18-4	Tetrachloroethene	15	0.15	0.077	2.2	0.023	0.011	
108-90-7	Chlorobenzene	ND	0.15	0.078	ND	0.033	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG79B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00265

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	1.4	0.77	0.095	0.33	0.18	0.022	
179601-23-1	m,p-Xylenes	7.1	0.77	0.20	1.6	0.18	0.046	
75-25-2	Bromoform	ND	0.77	0.12	ND	0.074	0.011	
100-42-5	Styrene	ND	0.77	0.12	ND	0.18	0.027	
95-47-6	o-Xylene	2.9	0.77	0.096	0.66	0.18	0.022	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.098	ND	0.022	0.014	
98-82-8	Cumene	0.17	0.77	0.086	0.035	0.16	0.017	J
103-65-1	n-Propylbenzene	0.50	0.77	0.080	0.10	0.16	0.016	J
622-96-8	4-Ethyltoluene	0.85	0.77	0.087	0.17	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	0.93	0.77	0.092	0.19	0.16	0.019	
98-83-9	alpha-Methylstyrene	ND	0.77	0.11	ND	0.16	0.023	
95-63-6	1,2,4-Trimethylbenzene	3.5	0.77	0.11	0.71	0.16	0.021	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.030	0.025	
541-73-1	1,3-Dichlorobenzene	1.4	0.15	0.095	0.23	0.025	0.016	
106-46-7	1,4-Dichlorobenzene	2.9	0.15	0.086	0.48	0.025	0.014	
135-98-8	sec-Butylbenzene	0.13	0.77	0.089	0.024	0.14	0.016	J
99-87-6	4-Isopropyltoluene (p-Cymene)	1.1	0.77	0.099	0.20	0.14	0.018	
95-50-1	1,2-Dichlorobenzene	0.99	0.15	0.10	0.16	0.025	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	0.12	ND	0.079	0.012	
120-82-1	1,2,4-Trichlorobenzene	10	0.15	0.12	1.3	0.021	0.016	
91-20-3	Naphthalene	3.6	0.31	0.11	0.68	0.058	0.022	B
87-68-3	Hexachlorobutadiene	5.8	0.15	0.14	0.55	0.014	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.077	ND	0.056	0.014	
104-51-8	n-Butylbenzene	0.97	0.31	0.077	0.18	0.056	0.014	M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

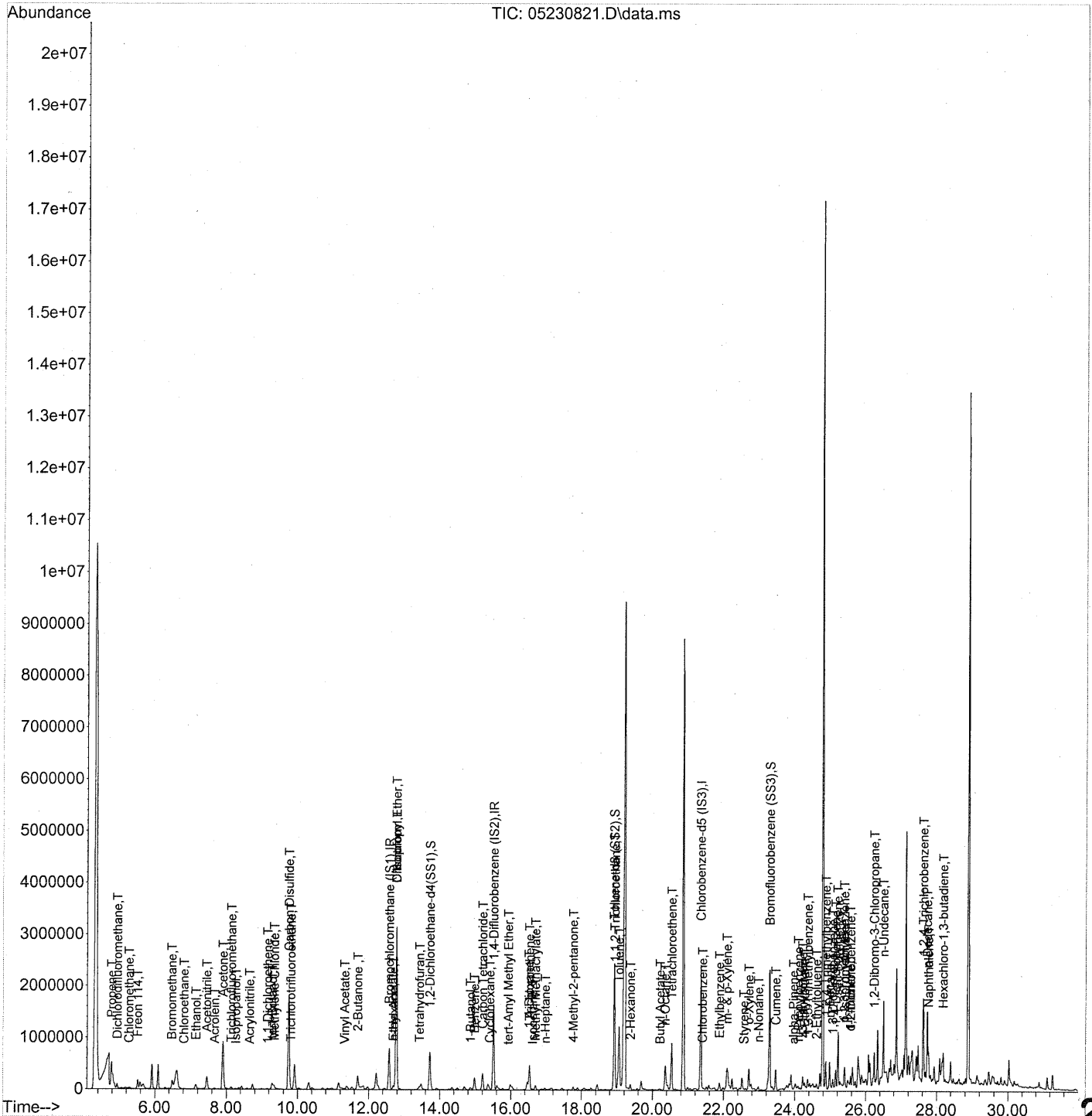
B = Analyte was found in the method blank.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CA Date: 6/4/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5) ✓
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 10:33:22 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 10:33:22 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	390666	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1900726	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	922168	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	712209	26.311	ng	0.00	
Spiked Amount	25.000						
							Recovery = 105.24% ✓
57) Toluene-d8 (SS2)	18.92	98	2005308	24.213	ng	0.00	
Spiked Amount	25.000						Recovery = 96.84% ✓
73) Bromofluorobenzene (SS3)	23.29	174	854151	25.362	ng	0.00	
Spiked Amount	25.000						Recovery = 101.44% ✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.78	42	200081	6.485	ng	# 70
3) Dichlorodifluoromethane	4.95	85	78445	1.379	ng	99
4) Chloromethane	5.27	50	4736	0.129	ng	91
5) Freon 114	5.52	135	1714	0.061	ng	72
6) Vinyl Chloride	5.72	62	433	N.D.	✓	
7) 1,3-Butadiene	5.99	54	109	N.D.		
8) Bromomethane	6.48	94	24565	1.197	ng	99
9) Chloroethane	6.82	64	2329m	0.133	ng	
10) Ethanol	7.15	45	194223m	9.456	ng	
11) Acetonitrile	7.45	41	378385	6.370	ng	97
12) Acrolein	7.67	56	20317	1.385	ng	98
13) Acetone	7.90	58	393162	18.695	ng	# 42
14) Trichlorofluoromethane	8.14	101	39839	0.816	ng	100
15) Isopropanol	8.26	45	5460	0.081	ng	# 1
16) Acrylonitrile	8.66	53	7135m	0.223	ng	
17) 1,1-Dichloroethene	9.16	96	5663	0.264	ng	94
18) tert-Butanol	9.29	59	239149	4.192	ng	93
19) Methylene Chloride	9.35	84	4357	0.185	ng	# 82
20) Allyl Chloride	9.54	41	180	N.D.	✓	
21) Trichlorotrifluoroethane	9.81	151	7806	0.352	ng	96
22) Carbon Disulfide	9.75	76	3589598	40.247	ng	99
23) trans-1,2-Dichloroethene	10.79	61	313	N.D.	✓	
24) 1,1-Dichloroethane	11.09	63	502	N.D.	✓	
25) Methyl tert-Butyl Ether	11.17	73	2282	N.D.	✓	
26) Vinyl Acetate	11.33	86	5383	1.385	ng	# 1
27) 2-Butanone	11.70	72	91708	5.975	ng	# 32
28) cis-1,2-Dichloroethene	12.27	61	769	N.D.	✓	
29) Diisopropyl Ether	12.78	87	332032	17.654	ng	# 1
30) Ethyl Acetate	12.70	61	3785	0.457	ng	82
31) n-Hexane	12.70	57	32895	0.787	ng	93

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 10:33:22 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev	(Min)
32) Chloroform	12.78	83	3246297	91.127	ng		99
34) Tetrahydrofuran	13.43	72	6688	0.456	ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓		
36) 1,2-Dichloroethane	13.88	62	84	N.D.	✓		
38) 1,1,1-Trichloroethane	14.28	97	727	N.D.	✓		
39) Isopropyl Acetate	14.85	61	240	N.D.			
40) 1-Butanol	14.87	56	45206	1.730	ng		85
41) Benzene	14.98	78	271761	2.731	ng		99
42) Carbon Tetrachloride	15.21	117	257745	6.725	ng		100
43) Cyclohexane	15.41	84	14555	0.376	ng	#	1
44) tert-Amyl Methyl Ether	15.93	73	5257	0.074	ng	NR #	63
45) 1,2-Dichloropropane	16.20	63	72	N.D.	✓		
46) Bromodichloromethane	16.45	83	104	N.D.	✓		
47) Trichloroethene	16.53	130	199003	6.518	ng		100
48) 1,4-Dioxane	16.52	88	4179	0.223	ng	NR #	76
49) Isooctane	16.62	57	22941	0.201	ng	#	54
50) Methyl Methacrylate	16.70	100	15508	1.559	ng	NR #	1
51) n-Heptane	16.98	71	8487	0.321	ng		89
52) cis-1,3-Dichloropropene	17.73	75	52	N.D.	✓		
53) 4-Methyl-2-pentanone	17.77	58	17919	0.678	ng		79
54) trans-1,3-Dichloropropene	18.42	75	1006	N.D.	✓		
55) 1,1,2-Trichloroethane	18.94	97	176315	7.169	ng	NR #	7
58) Toluene	19.05	91	1026191	9.115	ng		97
59) 2-Hexanone	19.38	43	43112	0.556	ng		78
60) Dibromochloromethane	0.00	129	0	N.D.	✓		
61) 1,2-Dibromoethane	20.04	107	52	N.D.	✓		
62) Butyl Acetate	20.22	43	29406	0.373	ng	#	38
63) n-Octane	20.35	57	15775	0.634	ng		97
64) Tetrachloroethene	20.54	166	317400	9.528	ng		99
65) Chlorobenzene	21.40	112	7209	0.096	ng	NR	80
66) Ethylbenzene	21.88	91	119170	0.923	ng		94
67) m- & p-Xylene	22.09	91	401032	4.644	ng		91
68) Bromoform	0.00	173	0	N.D.	✓		
69) Styrene	22.57	104	5288	0.069	ng	CHDL	90
70) o-Xylene	22.71	91	175597	1.884	ng		90
71) n-Nonane	22.98	43	35711	0.540	ng	#	83
72) 1,1,2,2-Tetrachloroethane	22.66	83	345	N.D.	✓		
74) Cumene	23.46	105	13949	0.112	ng		96
75) alpha-Pinene	23.97	93	4489	0.070	ng	#	46
76) n-Propylbenzene	24.10	91	51312	0.325	ng		92
77) 3-Ethyltoluene	24.22	105	151868	1.150	ng		97
78) 4-Ethyltoluene	24.28	105	68140	0.553	ng		99
79) 1,3,5-Trimethylbenzene	24.37	105	67607	0.608	ng		98

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RT 5/29/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 10:33:22 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

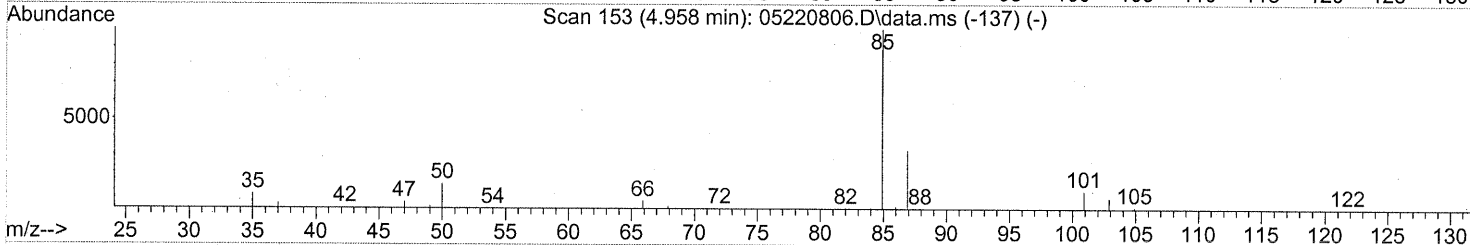
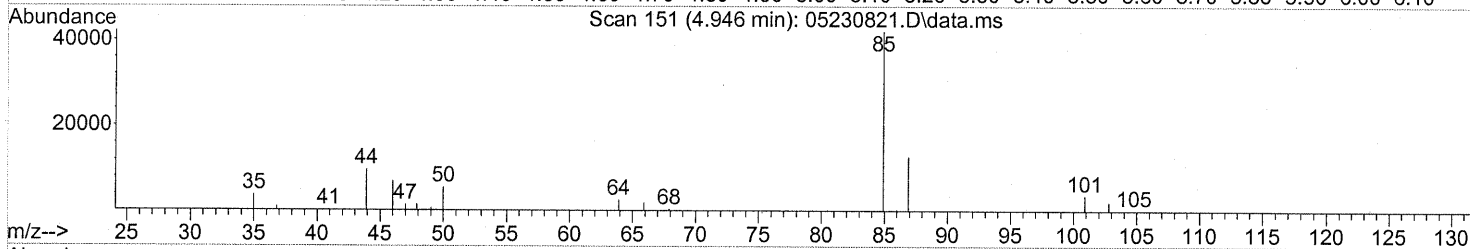
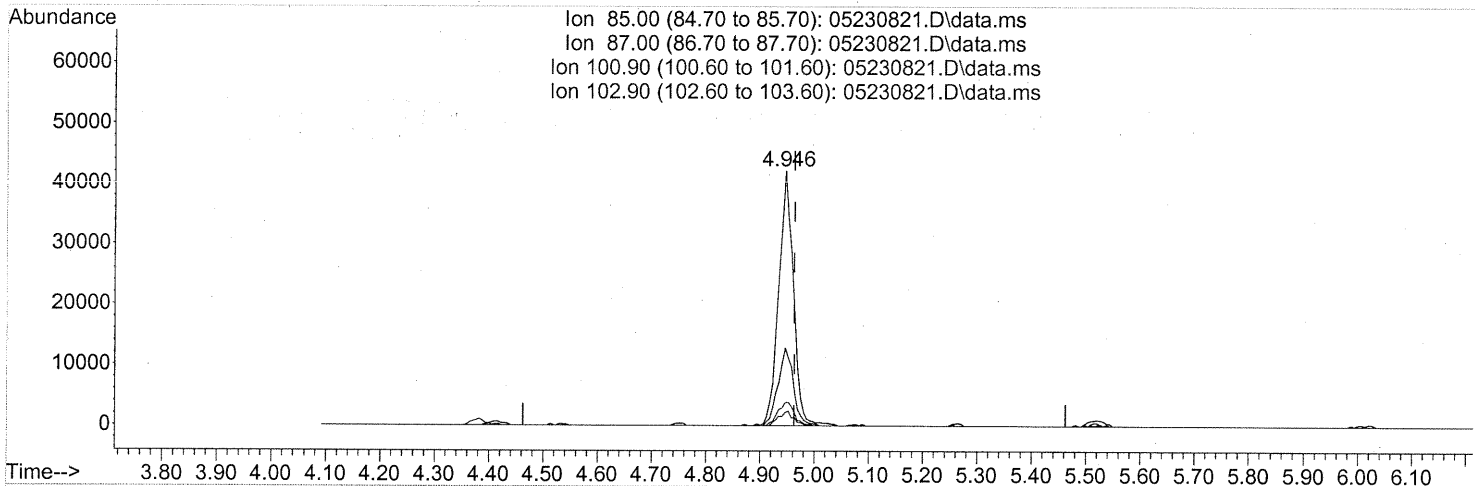
Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	1412	N.D. ✓	
81) 2-Ethyltoluene	24.61	105	63808	0.477 ng	97
82) 1,2,4-Trimethylbenzene	24.88	105	259002	2.286 ng	88
83) n-Decane	24.98	57	194826	3.126 ng	80
84) Benzyl Chloride	25.05	91	1868	N.D. ✓	
85) 1,3-Dichlorobenzene	25.07	146	64504	0.911 ng	99
86) 1,4-Dichlorobenzene	25.16	146	128965	1.878 ng	100
87) sec-Butylbenzene	25.21	105	12323	0.085 ng	85
88) p-Isopropyltoluene	25.40	119	86648	0.727 ng	91
89) 1,2,3-Trimethylbenzene	25.40	105	83979	0.758 ng	96
90) 1,2-Dichlorobenzene	25.57	146	43403	0.646 ng	100
91) d-Limonene	25.57	68	29677	0.658 ng	97
92) 1,2-Dibromo-3-Chloropr...	26.24	157	42005	2.015 ng M #	53
93) n-Undecane	26.50	57	580180	8.894 ng	72
94) 1,2,4-Trichlorobenzene	27.63	180	320735	6.519 ng	95
95) Naphthalene	27.77	128	349605	2.340 ng	96
96) n-Dodecane	27.73	57	429984	6.628 ng	82
97) Hexachloro-1,3-butadiene	28.19	225	124820	3.811 ng	100

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(3) Dichlorodifluoromethane (T)

4.946min (-0.017) 1.38ng

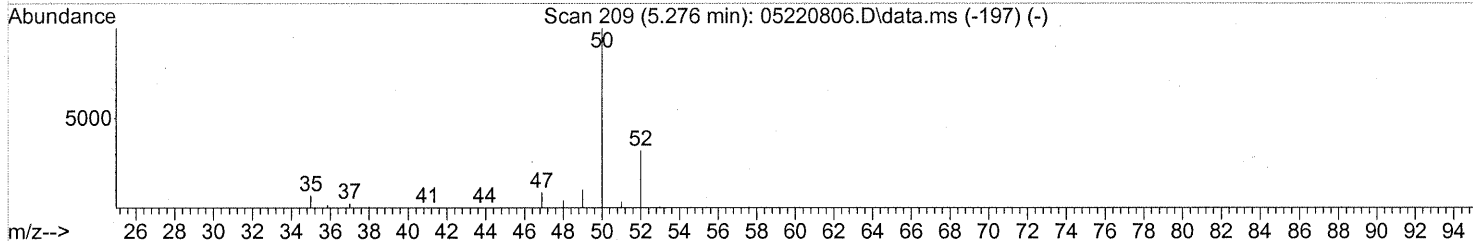
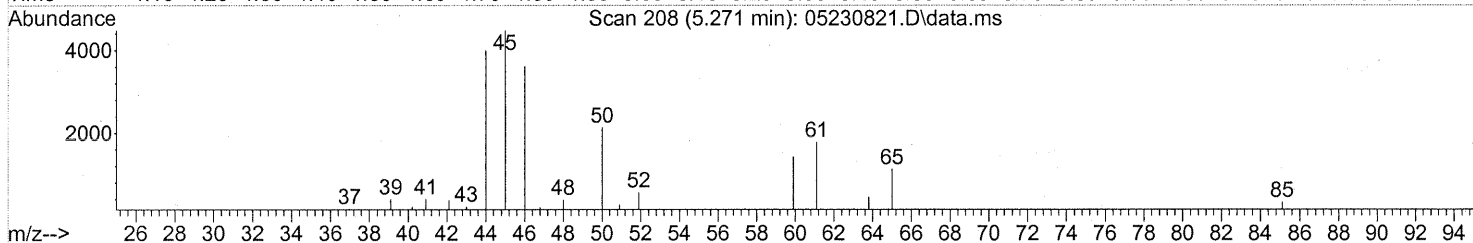
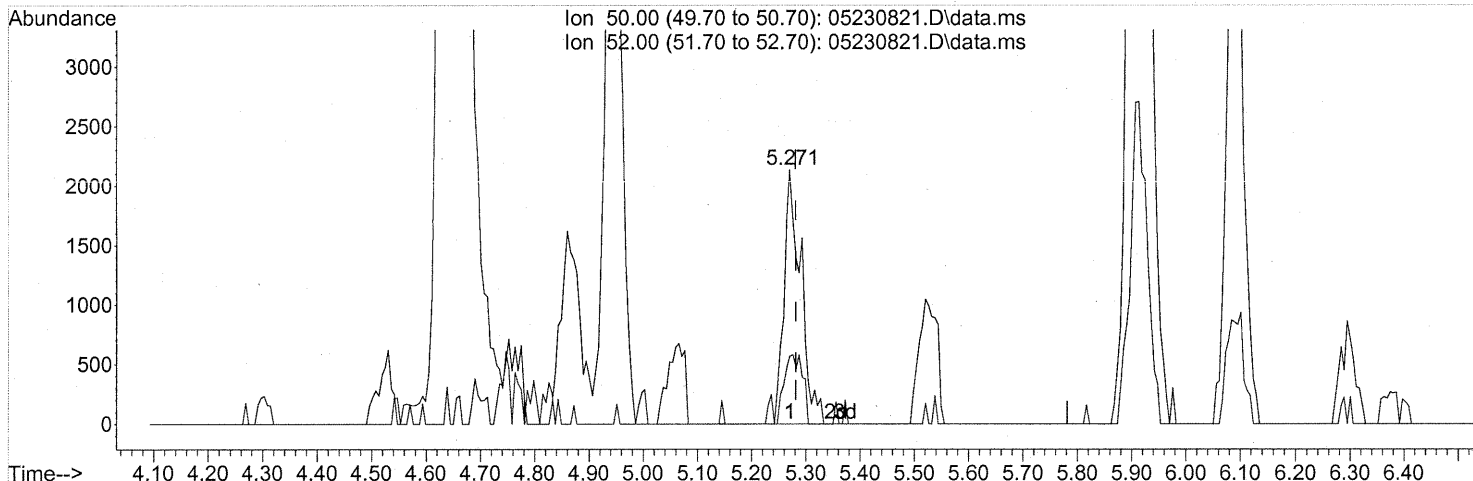
response 78445

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.70
100.90	9.30	9.98
102.90	6.00	5.57

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
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 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

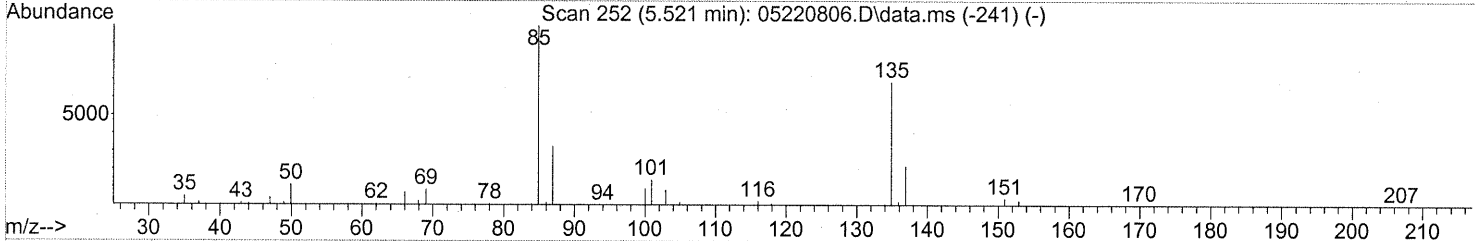
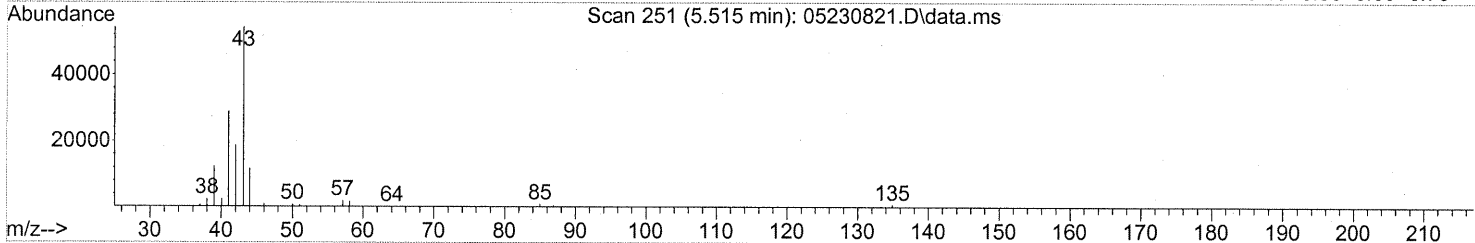
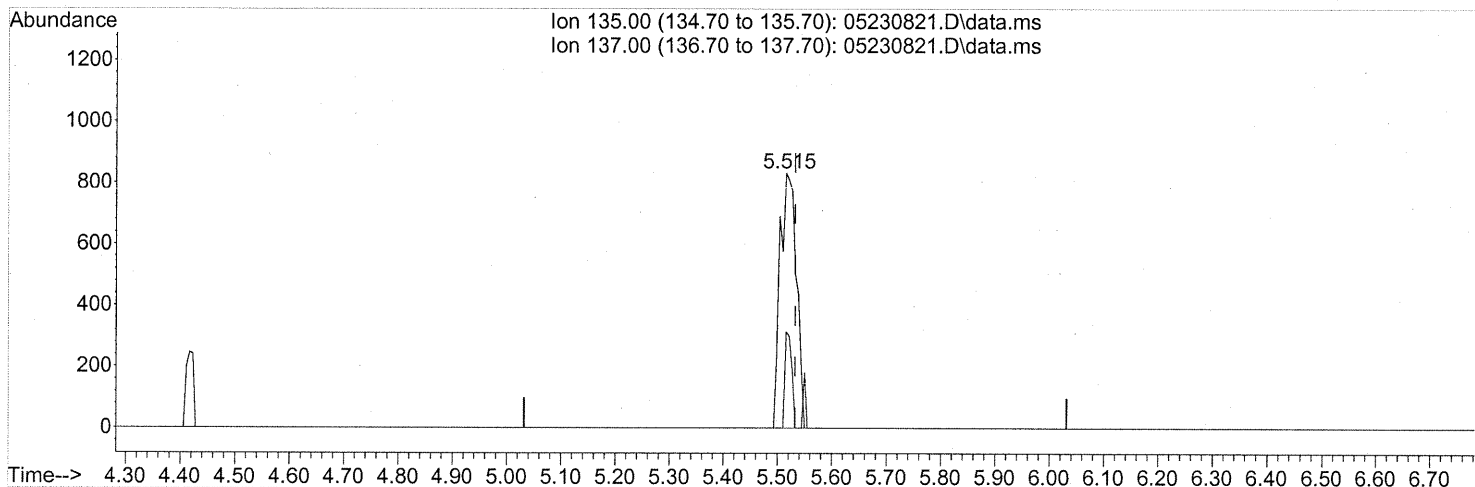
(4) Chloromethane (T)
 5.271min (-0.011) 0.13ng
 response 4736

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	28.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(5) Freon 114 (T)

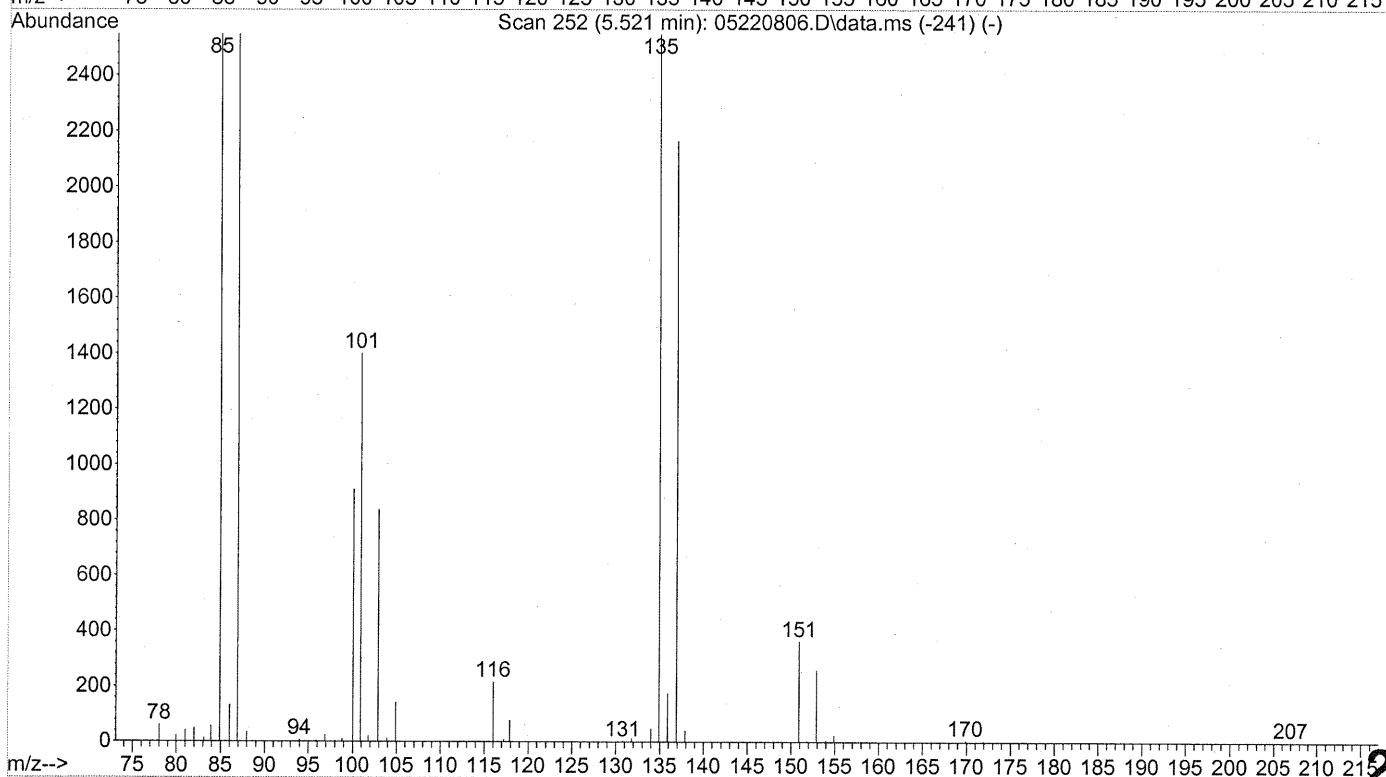
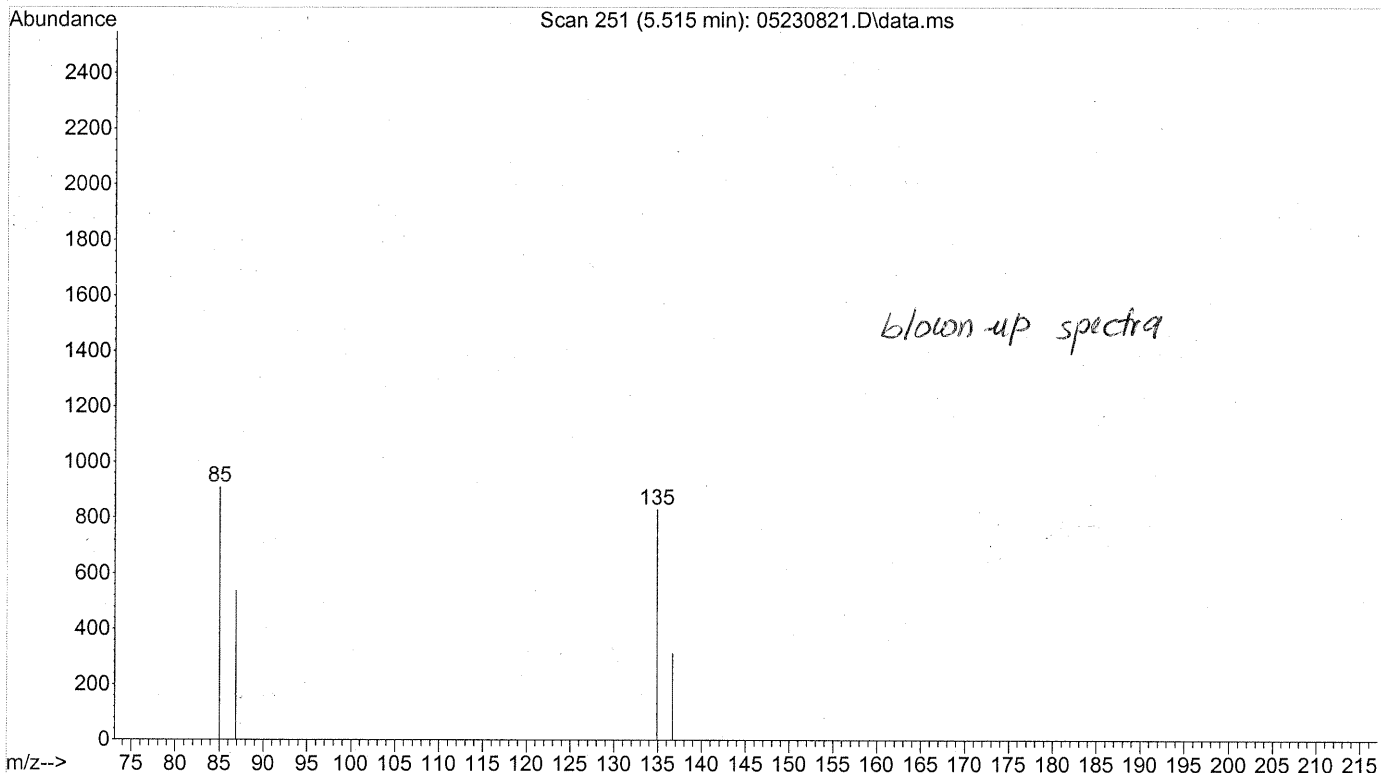
5.515min (-0.017) 0.06ng

response 1714

see blown up spectra

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	15.87
0.00	0.00	0.00
0.00	0.00	0.00

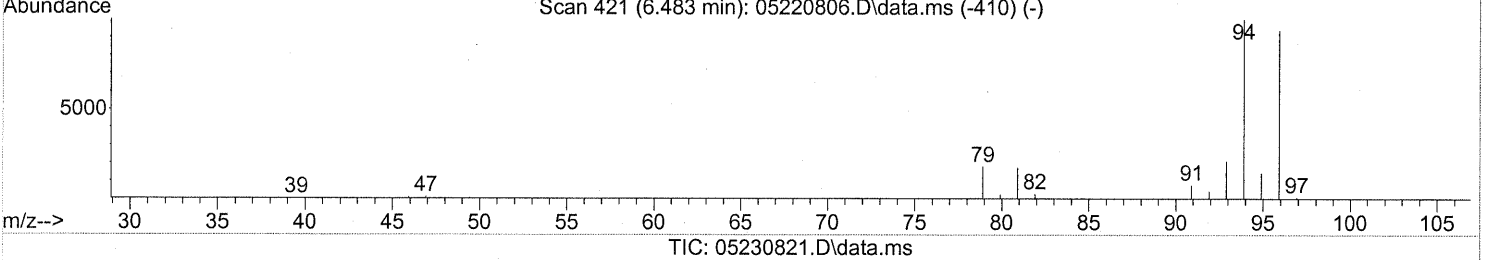
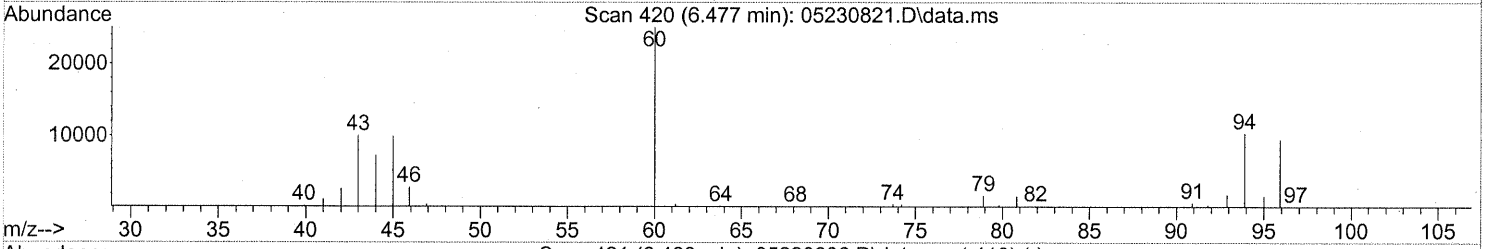
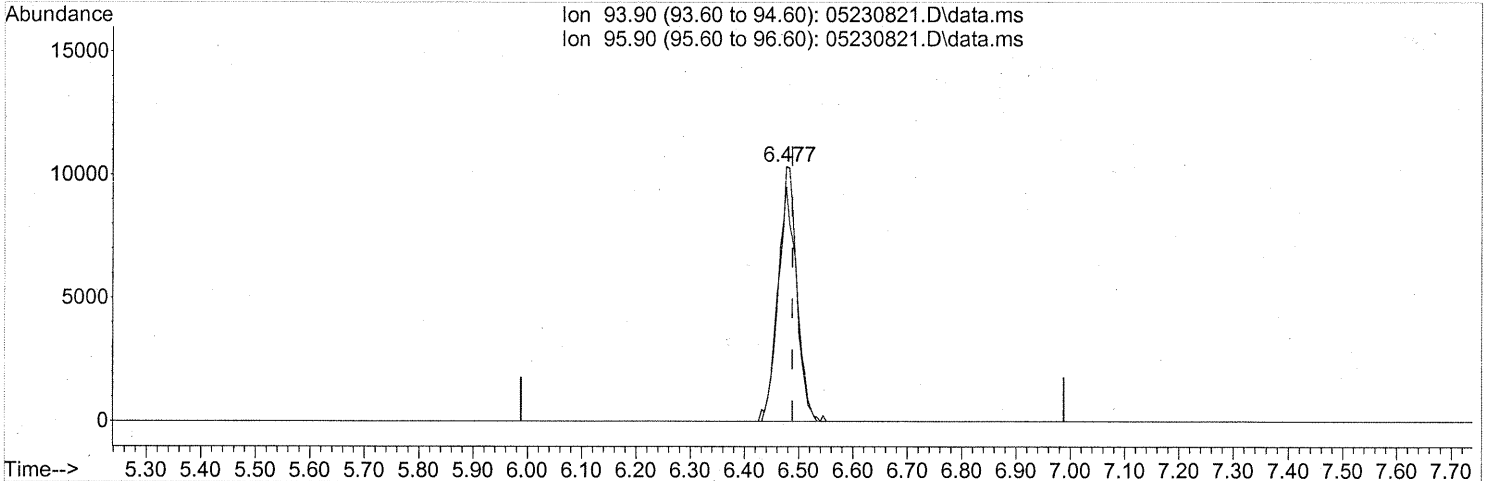
File : J:\MS13\DATA\2008_05\23\05230821.D
Operator : RTB
Acquired : 23 May 2008 23:43 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-004 (1000mL)
Misc Info : ENSR SG79B-05 (-2.8, 3.5)
Vial Number: 1



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(8) Bromomethane (T)

6.477min (-0.011) 1.20ng

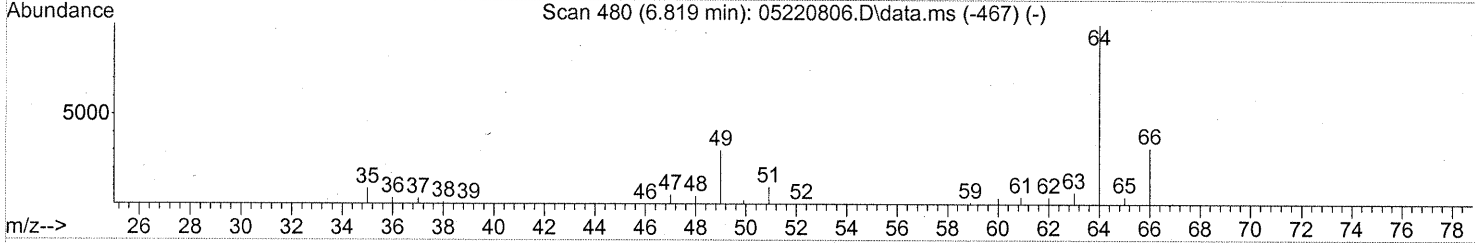
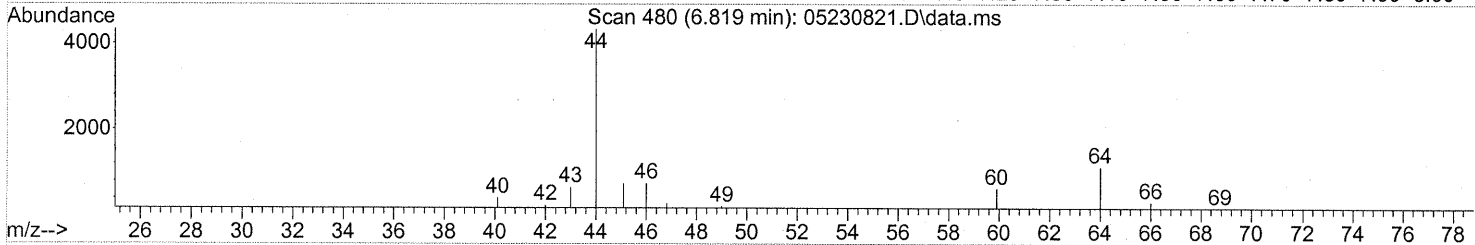
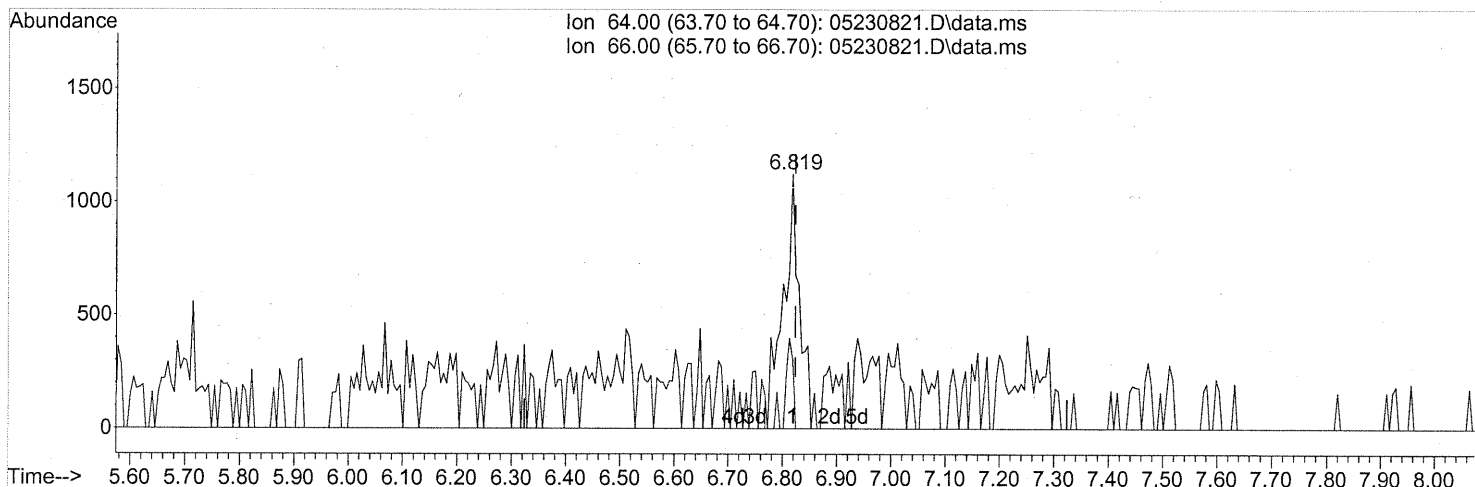
response 24565

Ion	Exp%	Act%
93.90	100	100
95.90	92.30	91.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230821.D
Acq On : 23 May 2008 23:43
Operator : RTB
Sample : P0801483-004 (1000mL)
Misc : ENSR SG79B-05 (-2.8, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(9) Chloroethane (T)
6.819min (-0.006) 0.14ng
response 2381

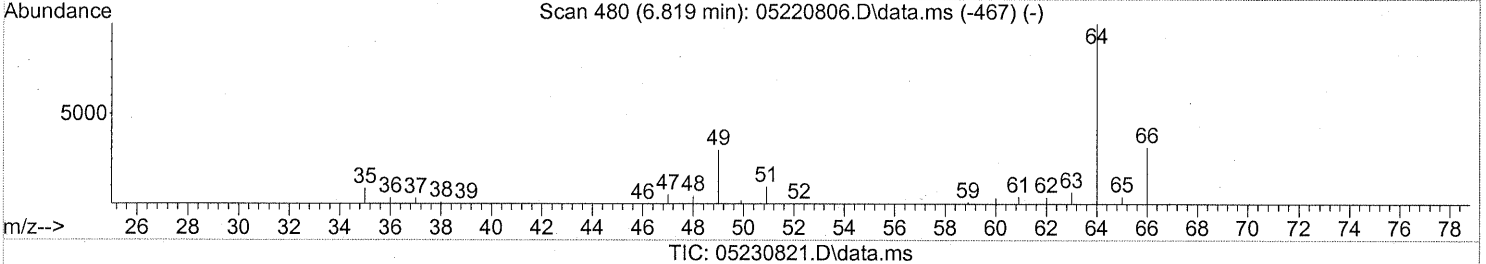
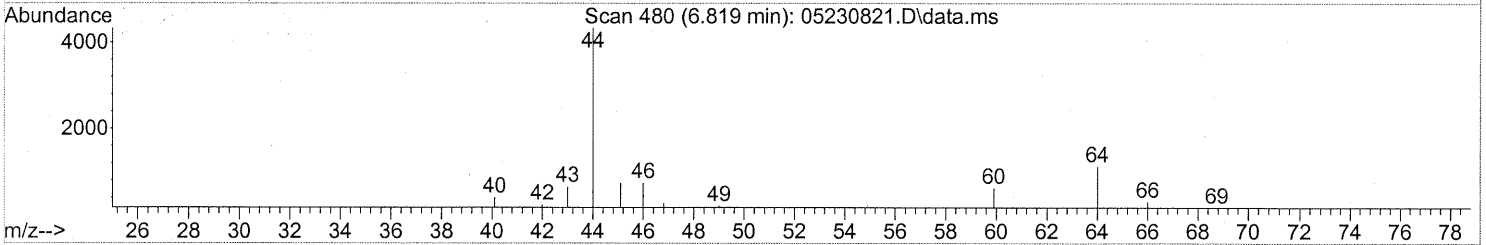
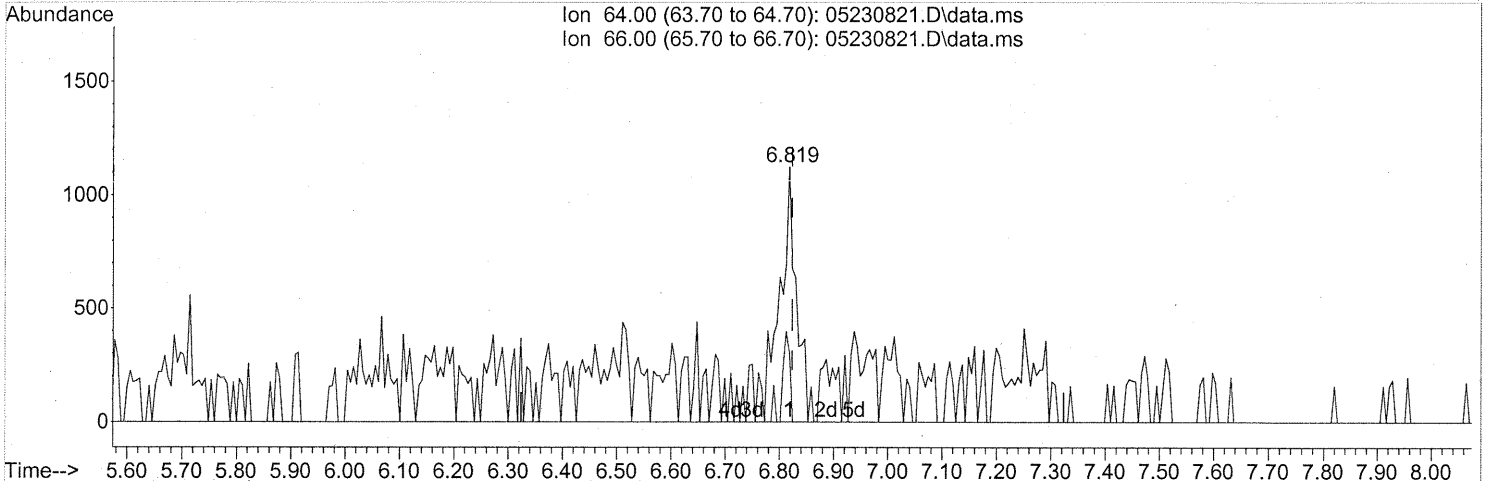
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	13.61
0.00	0.00	0.00
0.00	0.00	0.00

tailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 10:33:22 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(9) Chloroethane (T)

6.819min (-0.006) 0.13ng m

response 2329

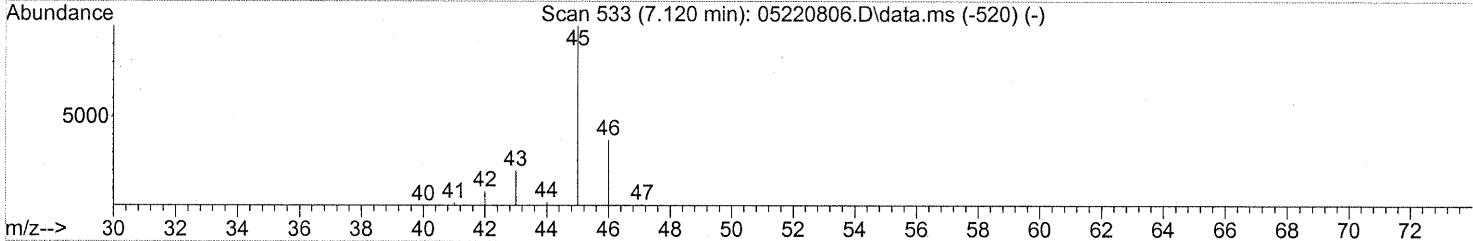
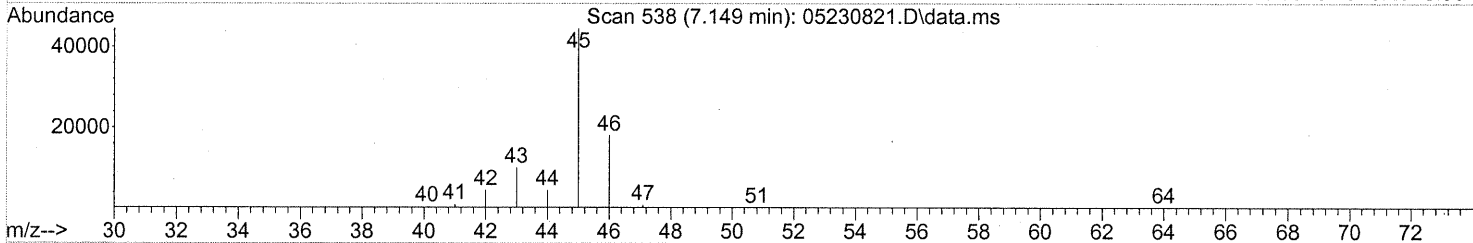
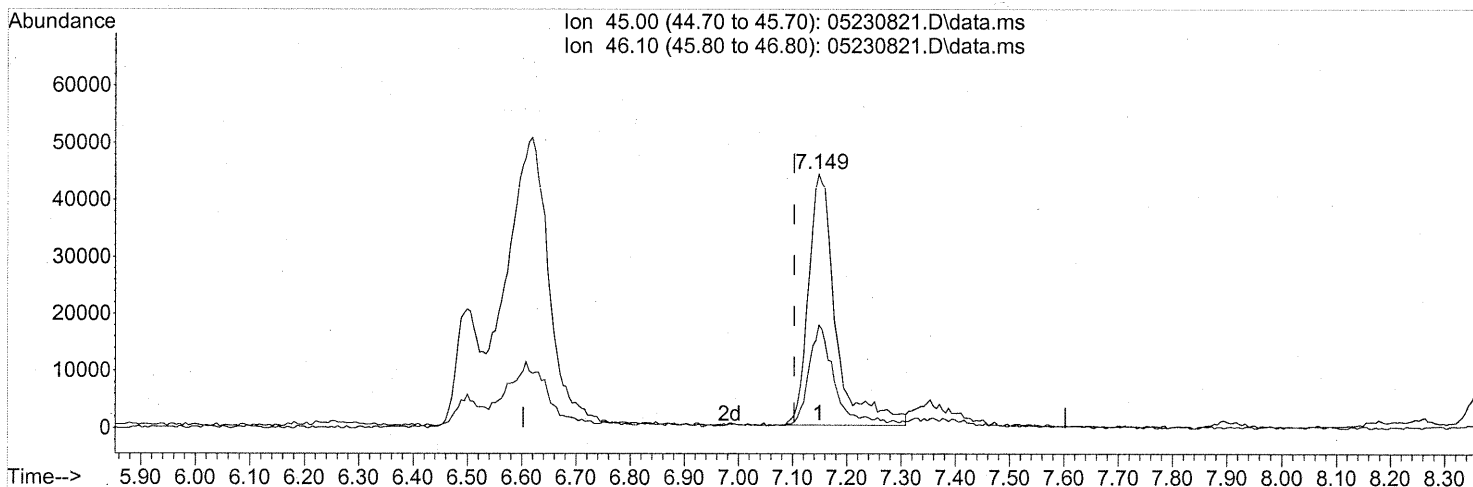
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	13.91
0.00	0.00	0.00
0.00	0.00	0.00

10% tailing
PA 6/3/08
R 16/03/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.149min (+0.046) 7.51ng

response 154190

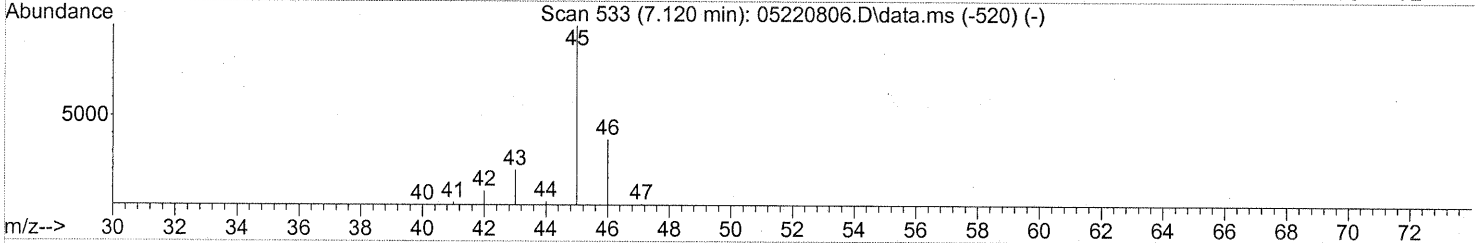
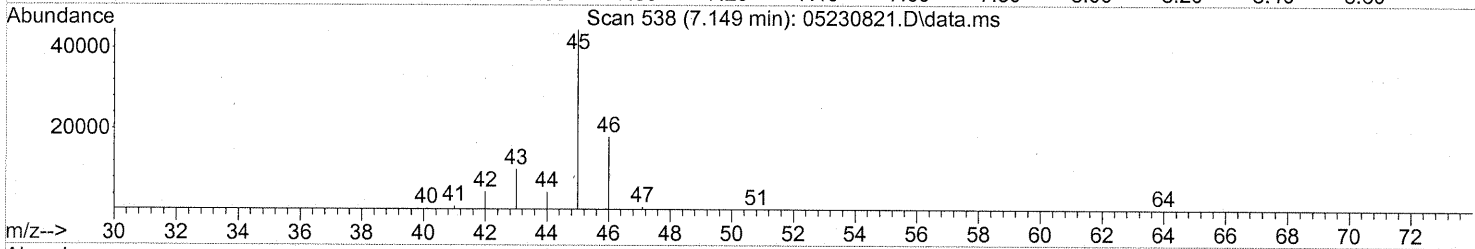
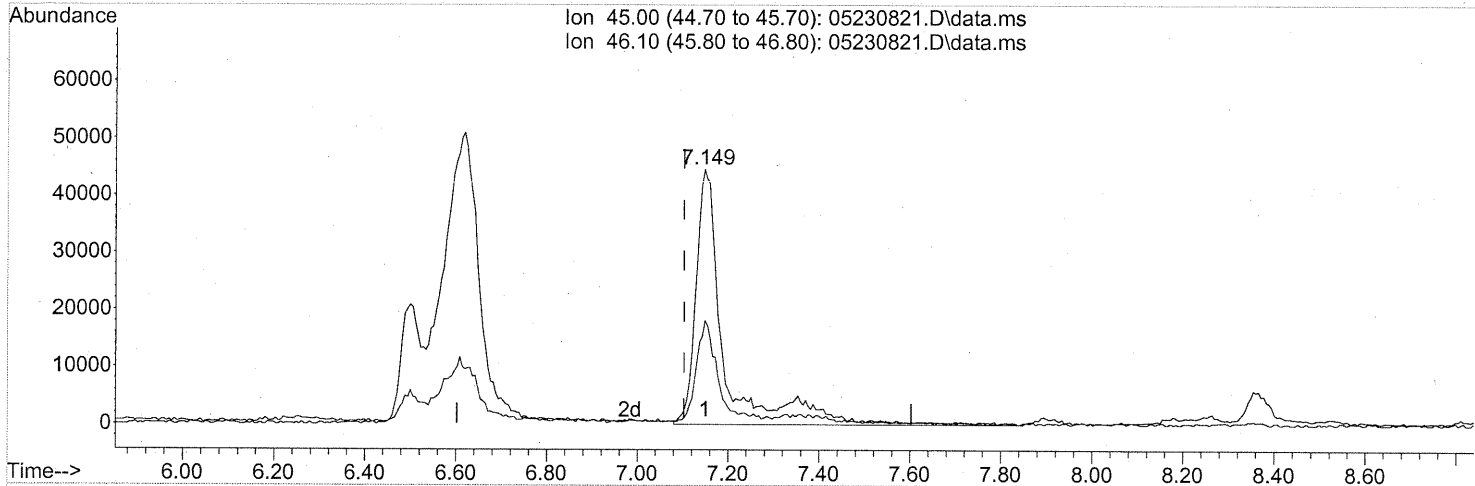
split/tailing

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	38.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 10:33:22 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(10) Ethanol (T)

7.149min (+0.046) 9.46ng m

response 194223

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	30.29
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

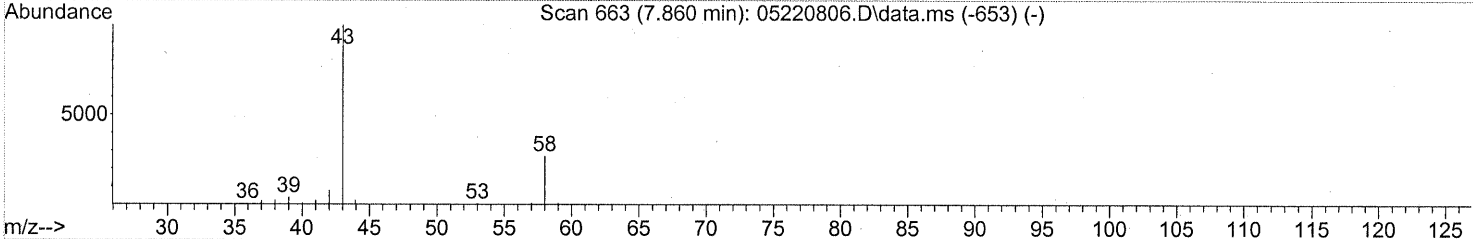
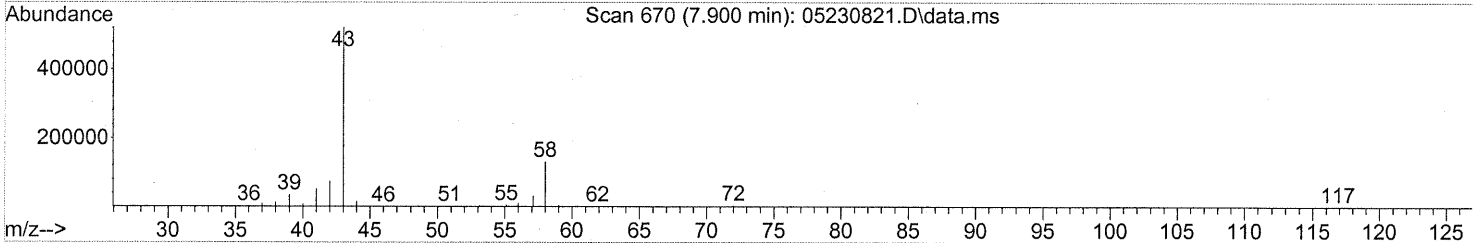
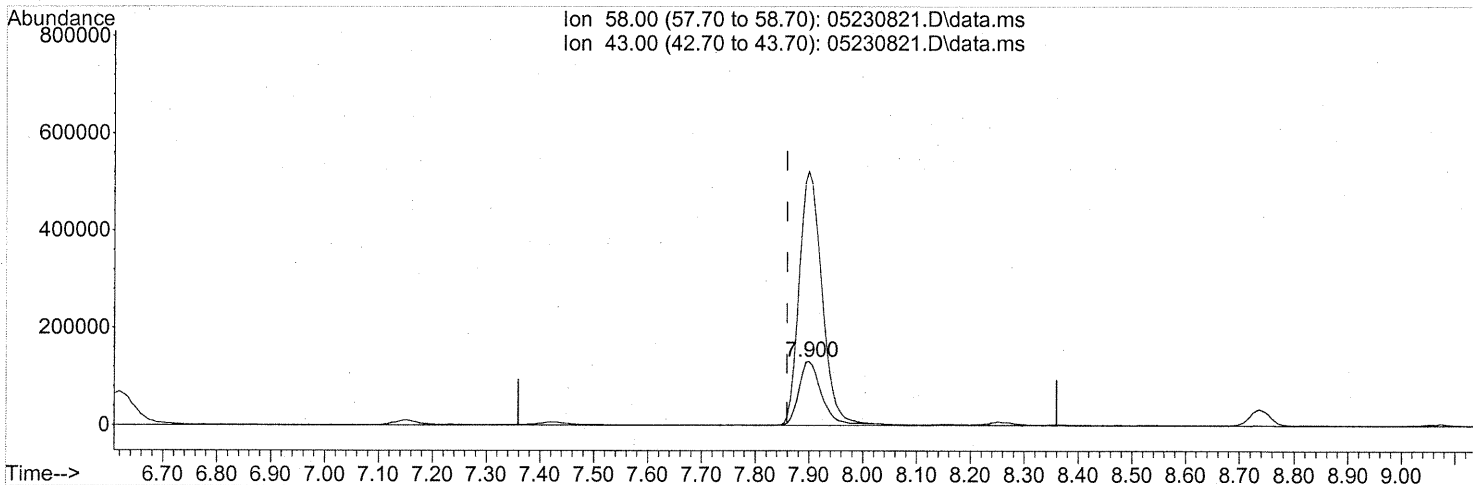
RT 6/2/08

F 06/03/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(13) Acetone (T)

7.900min (+0.040) 18.70ng

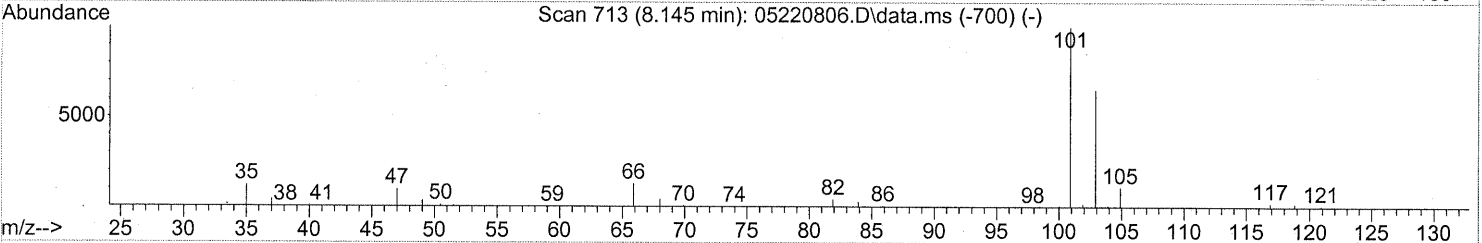
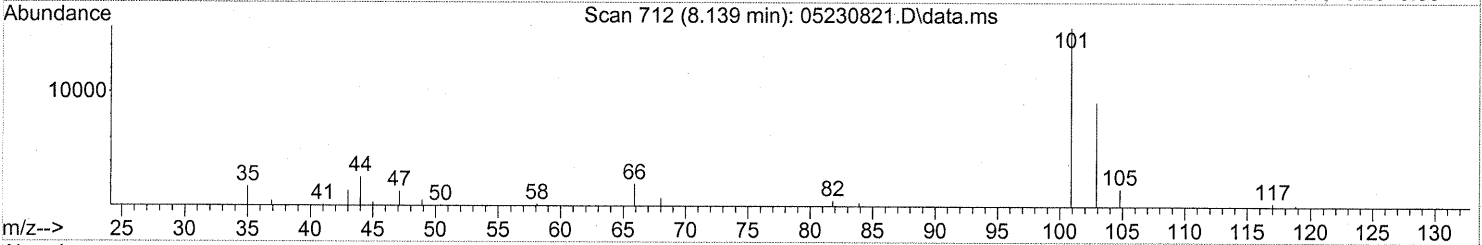
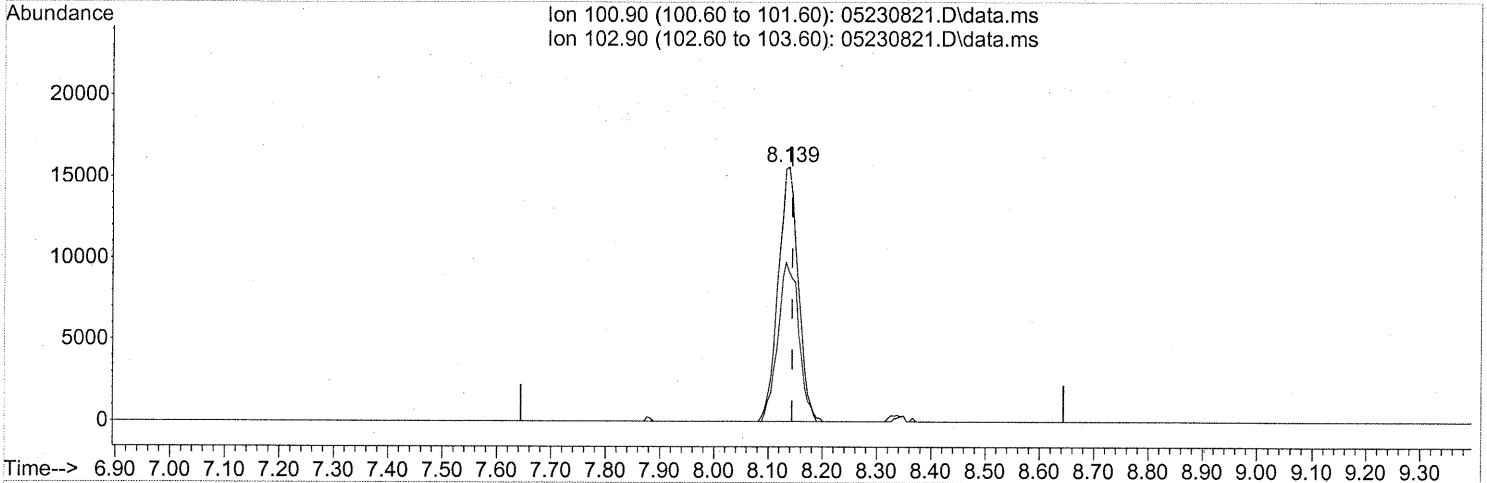
response 393162

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	393.10#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(14) Trichlorofluoromethane (T)

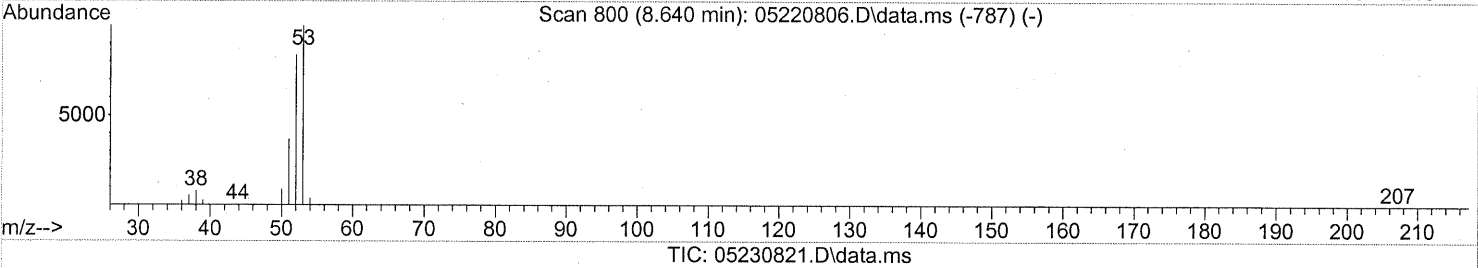
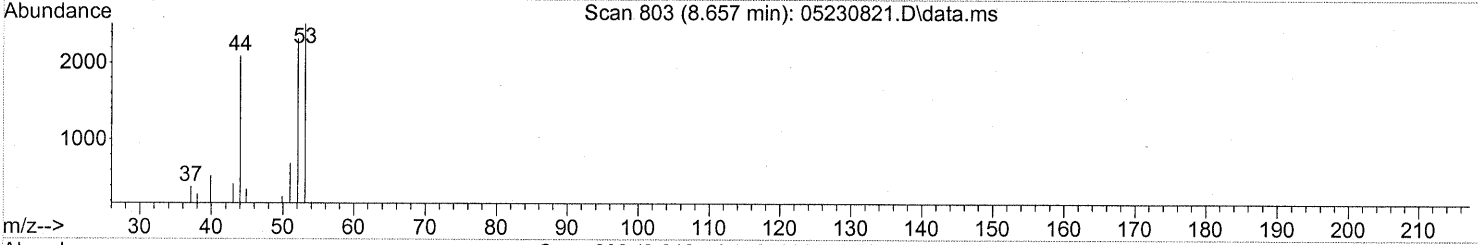
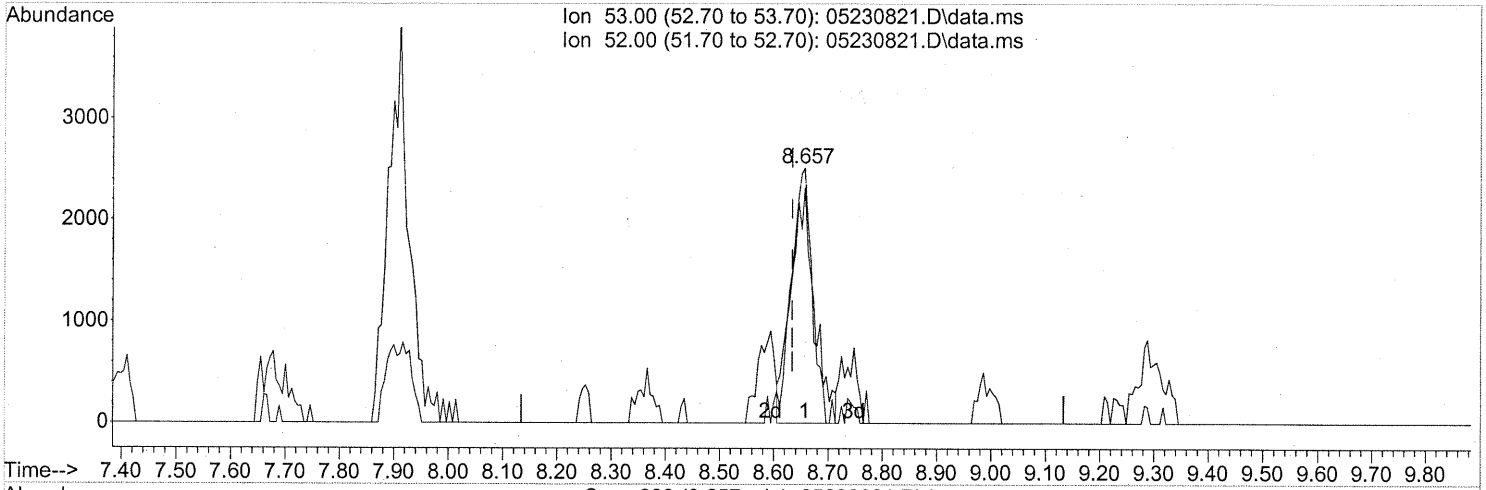
8.139min (-0.006) 0.82ng

response 39839

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	65.10
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.657min (+0.023) 0.23ng
 response 7345

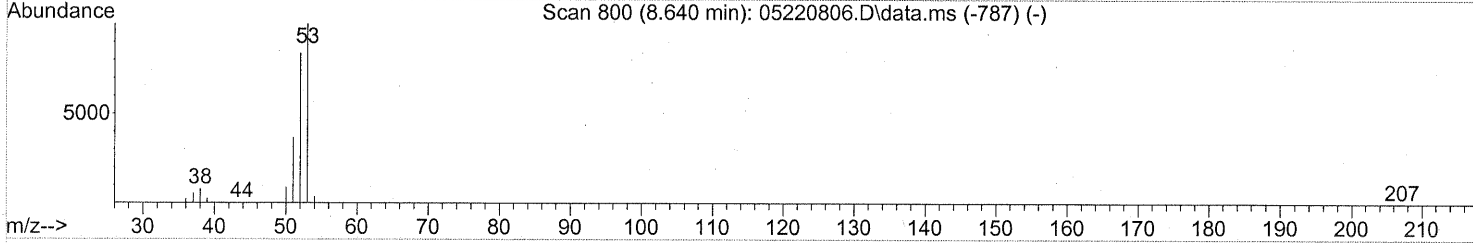
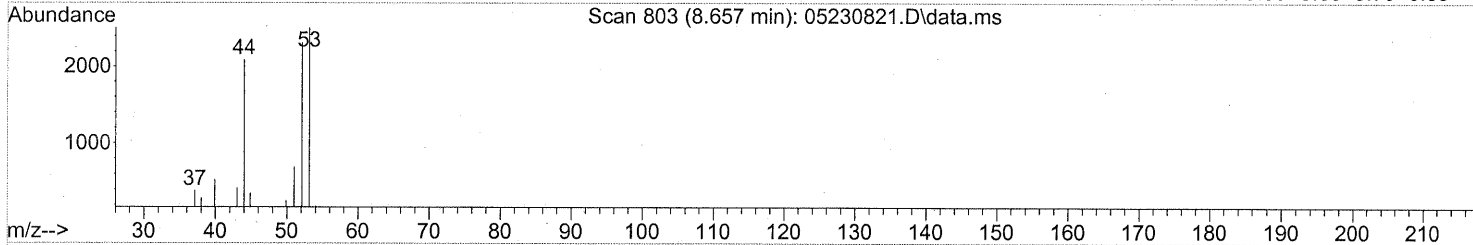
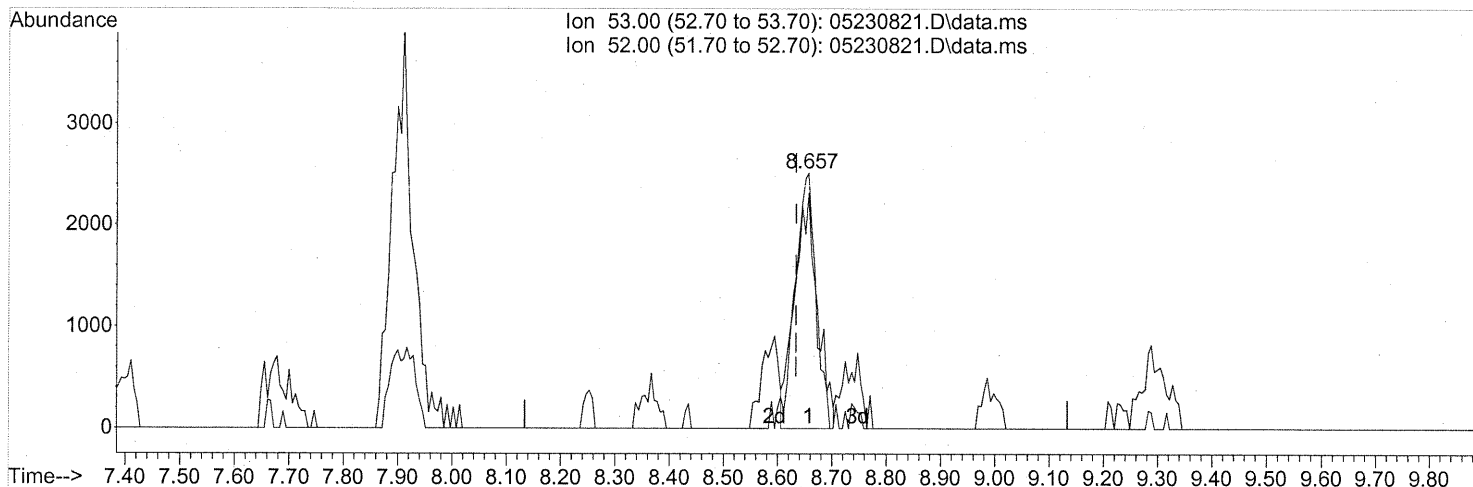
Ion	Exp%	Act%
53.00	100	100
52.00	82.50	86.58
0.00	0.00	0.00
0.00	0.00	0.00

tailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 10:33:22 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(16) Acrylonitrile (T)

8.657min (+0.023) 0.22ng m

response 7135

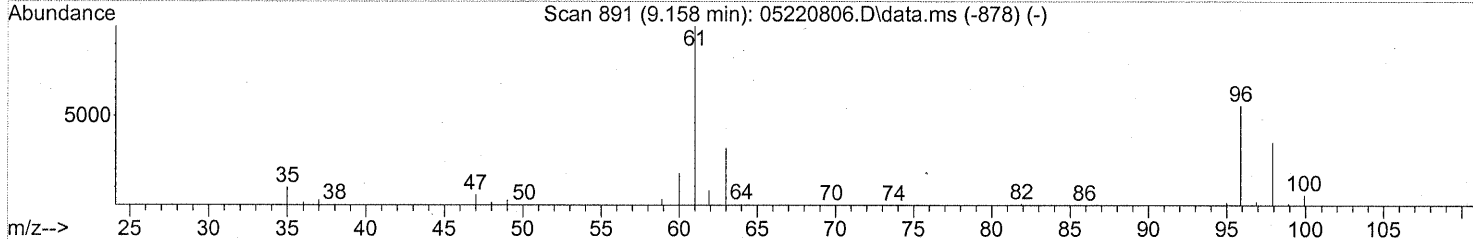
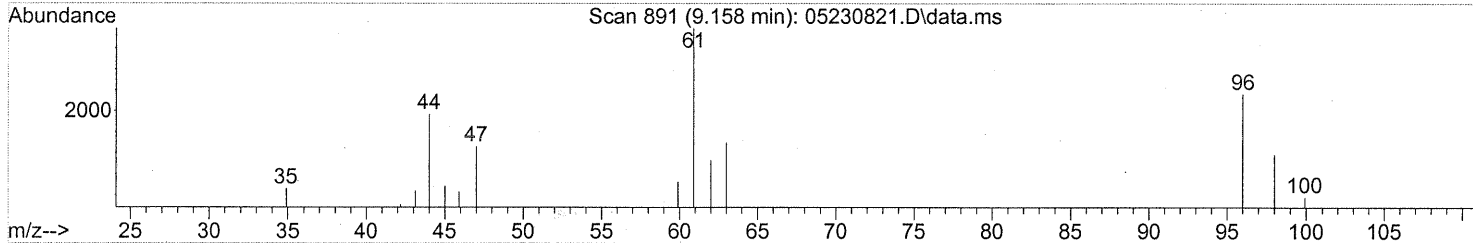
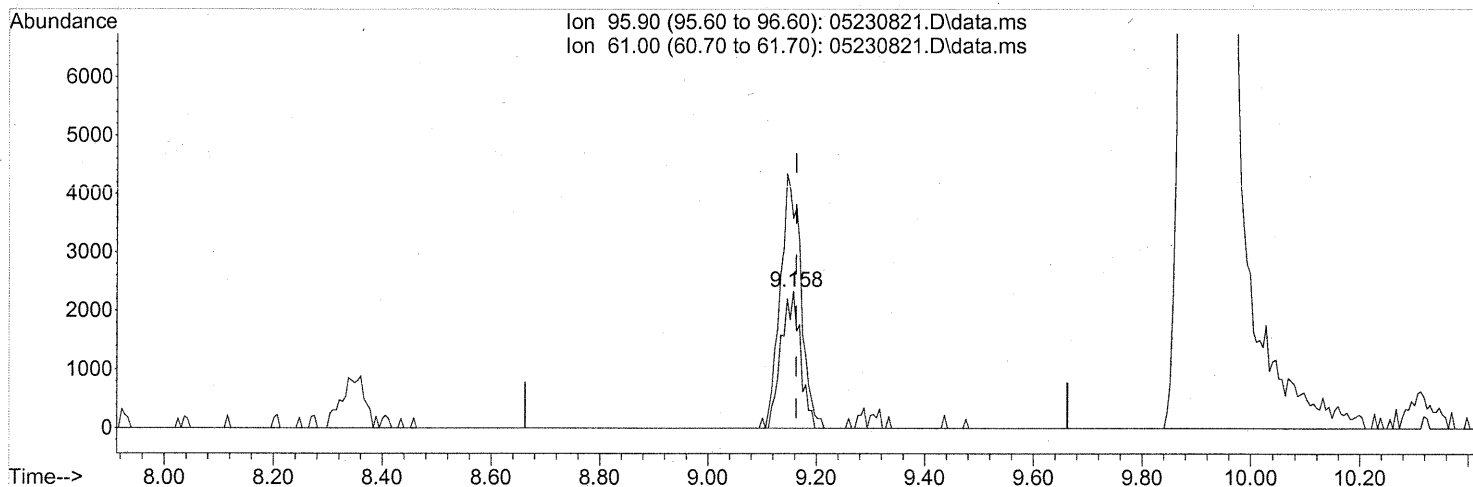
Ion	Exp%	Act%
53.00	100	100
52.00	82.50	89.12
0.00	0.00	0.00
0.00	0.00	0.00

100% tailing
MSA 6/3/08
P 06/03/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(17) 1,1-Dichloroethene (T)

9.158min (-0.006) 0.26ng

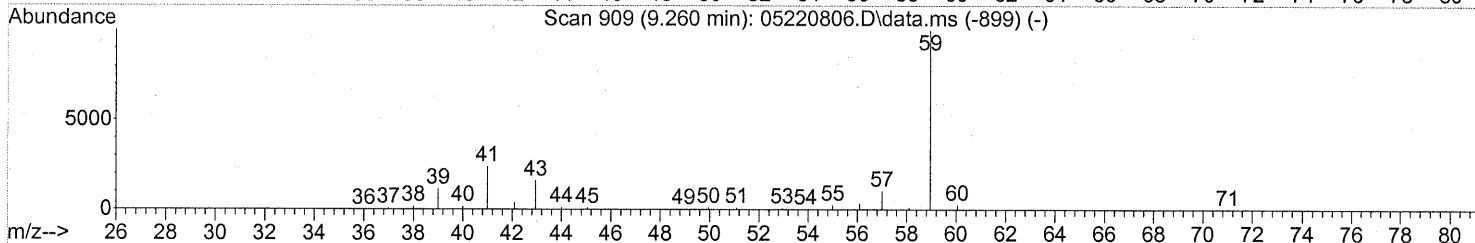
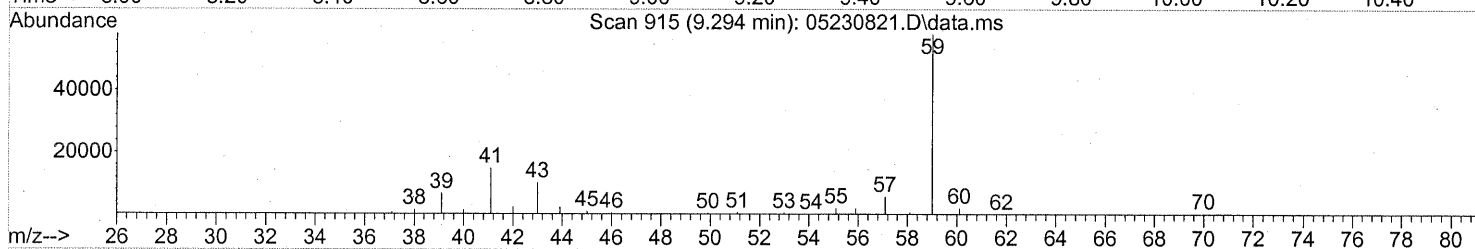
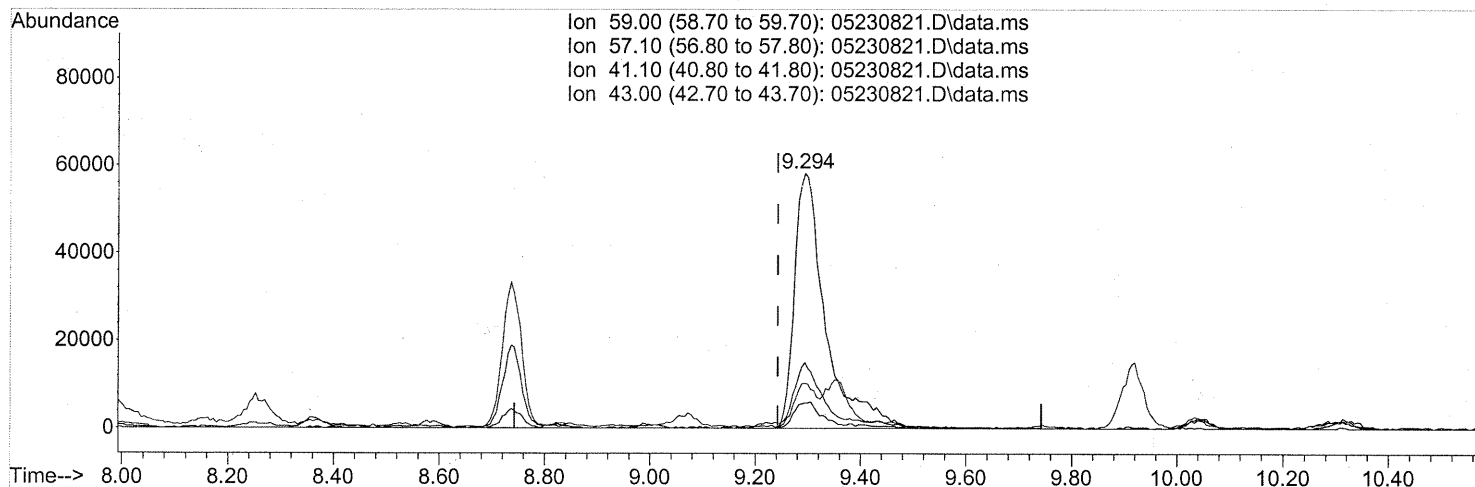
response 5663

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	200.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.294min (+0.051) 4.19ng

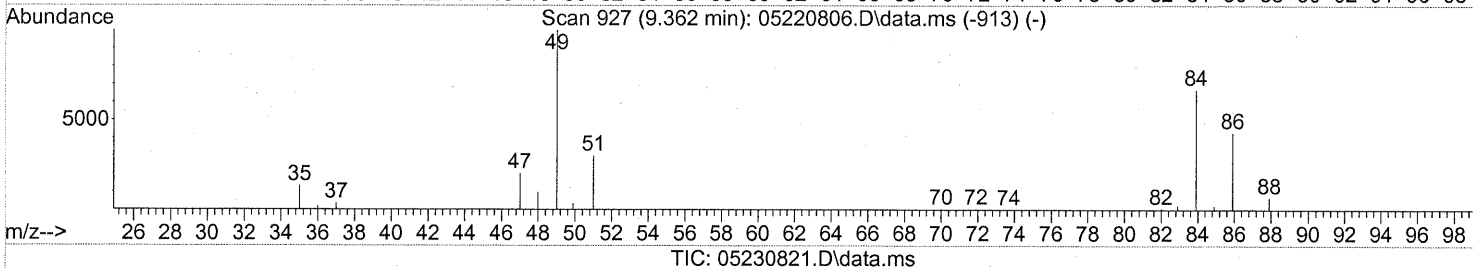
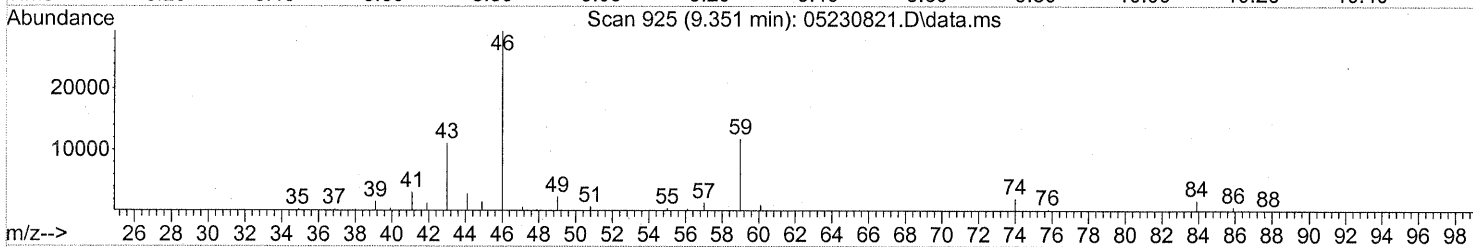
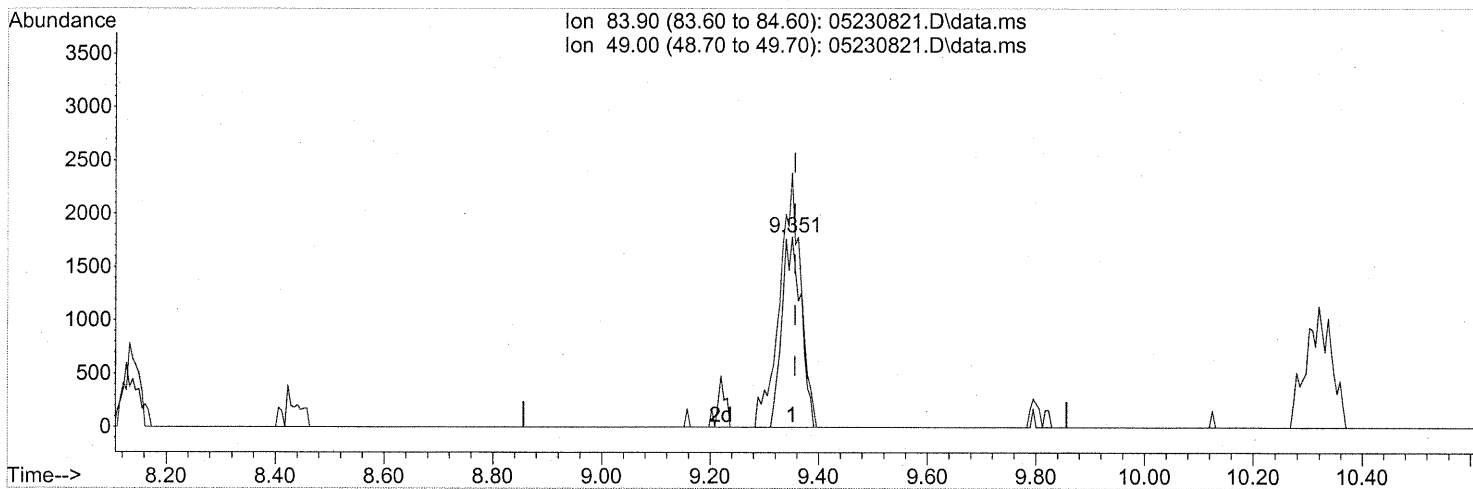
response 239149

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	8.95
41.10	20.10	26.36
43.00	12.30	12.24

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.351min (-0.006) 0.19ng

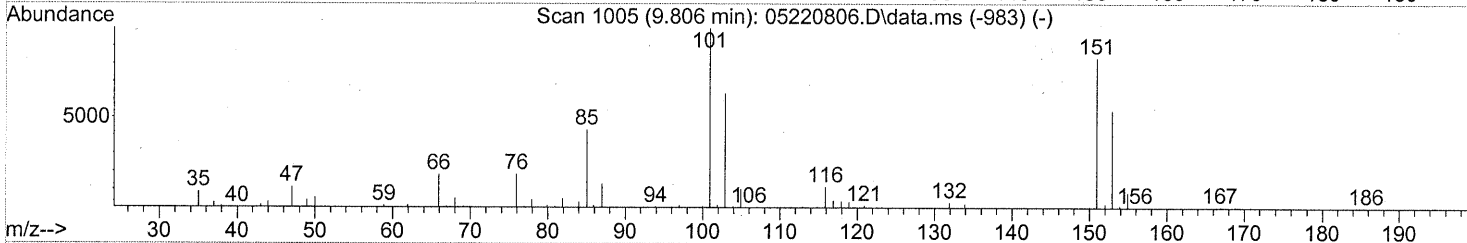
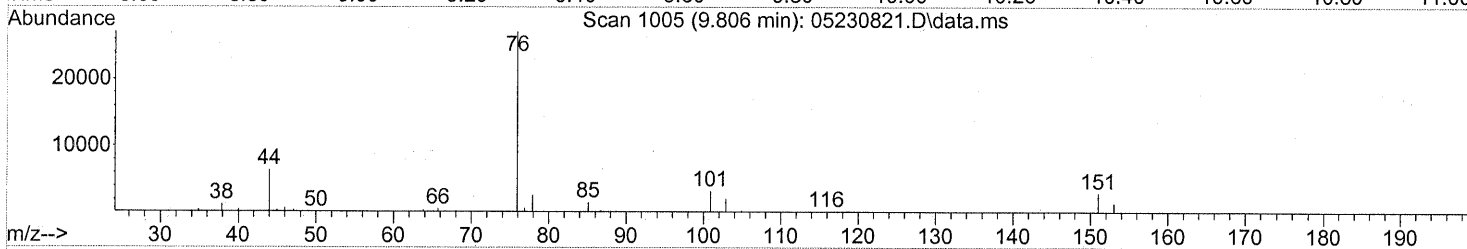
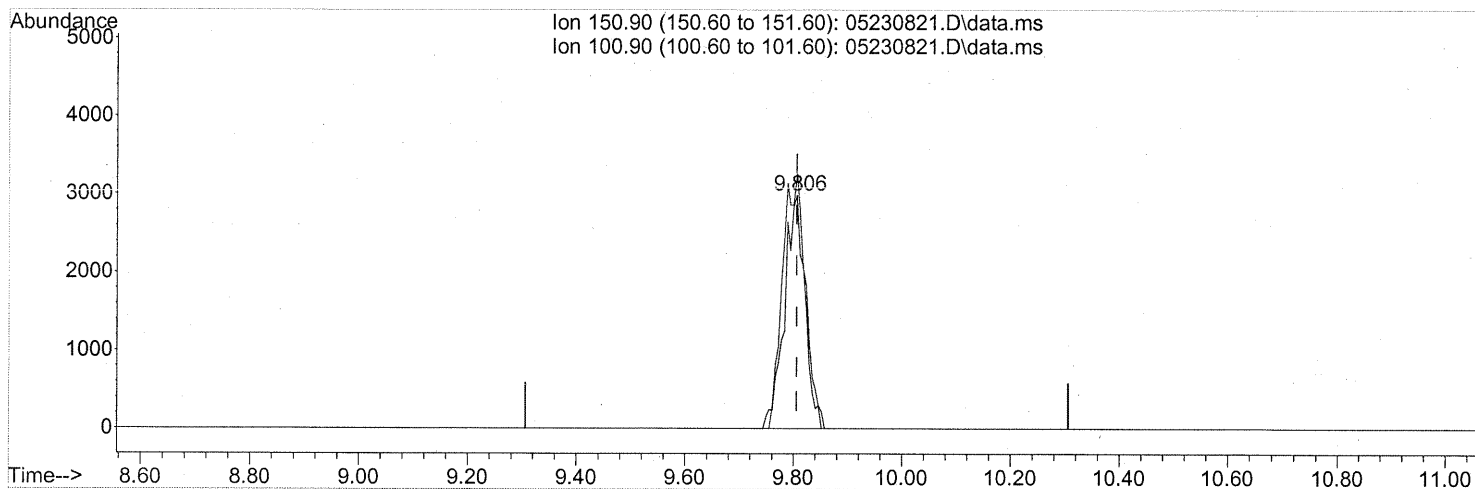
response 4357

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	147.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (+0.000) 0.35ng

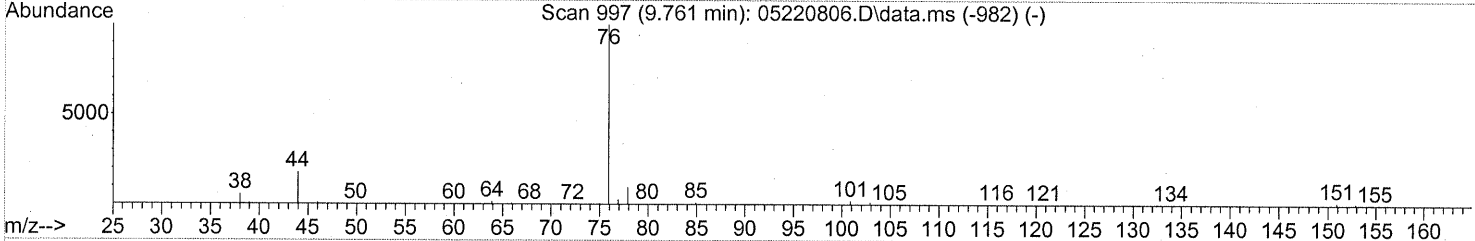
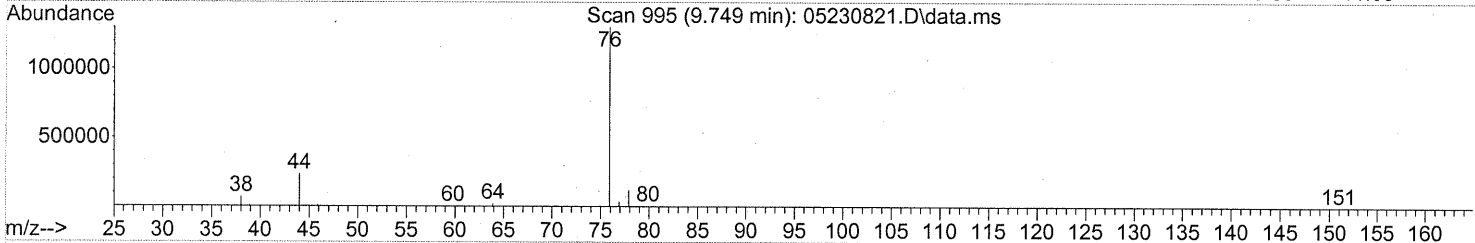
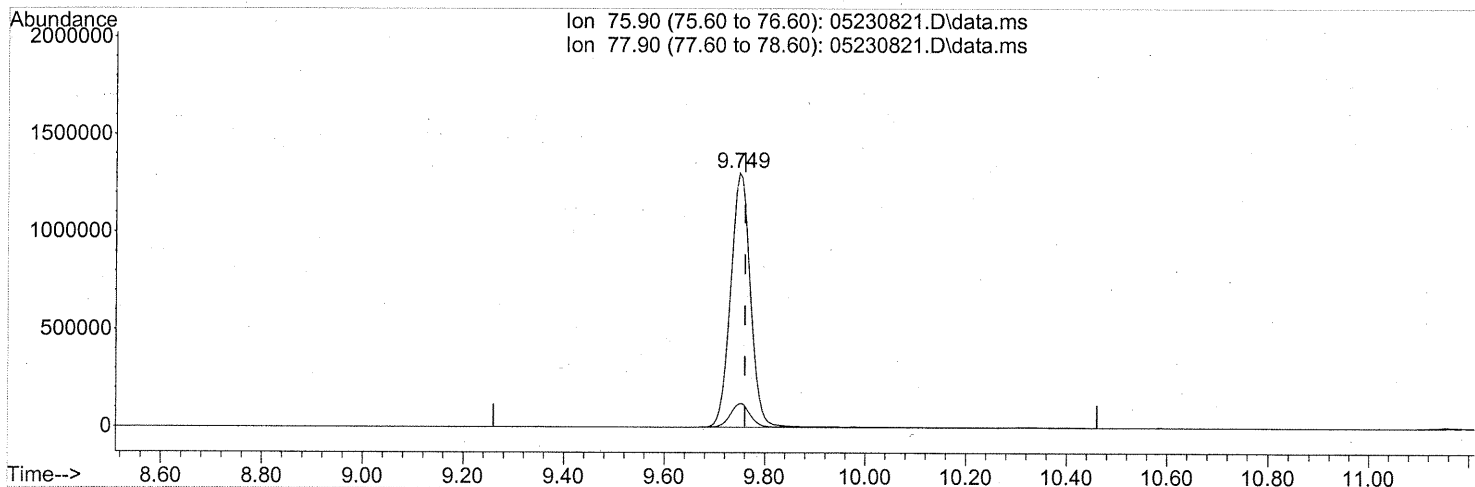
response 7806

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	122.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230821.D
Acq On : 23 May 2008 23:43
Operator : RTB
Sample : P0801483-004 (1000mL)
Misc : ENSR SG79B-05 (-2.8, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05230821.D\data.ms

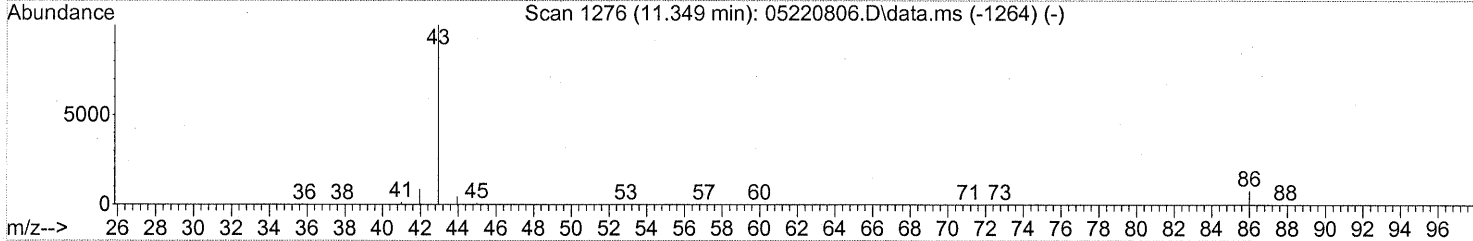
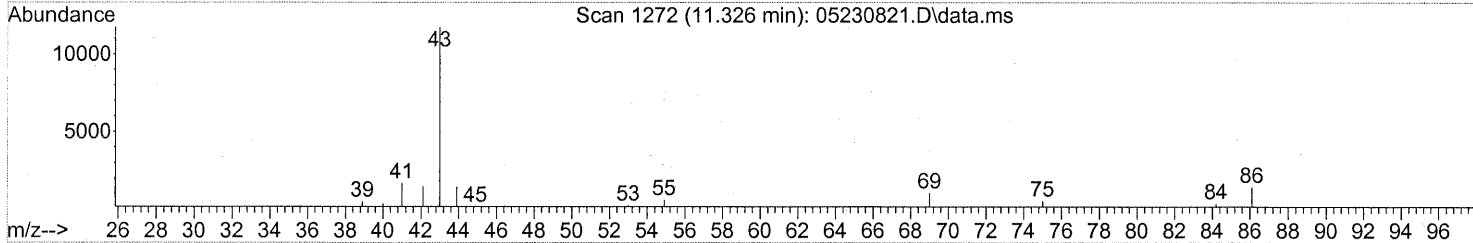
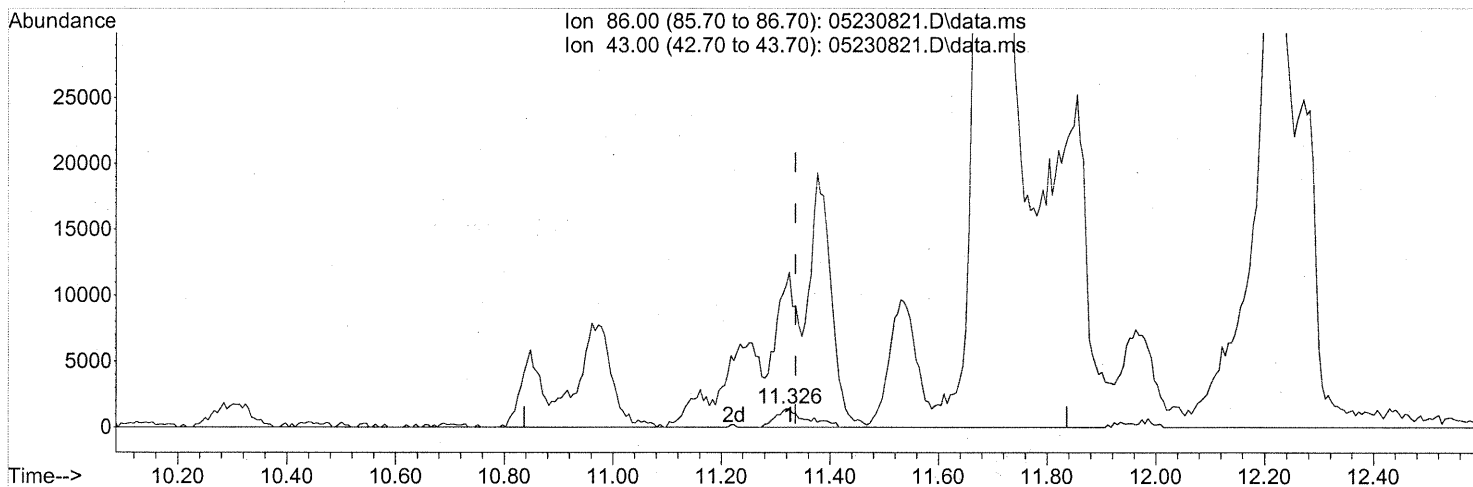
(22) Carbon Disulfide (T)
9.749min (-0.011) 40.25ng
response 3589598

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.326min (-0.011) 1.38ng

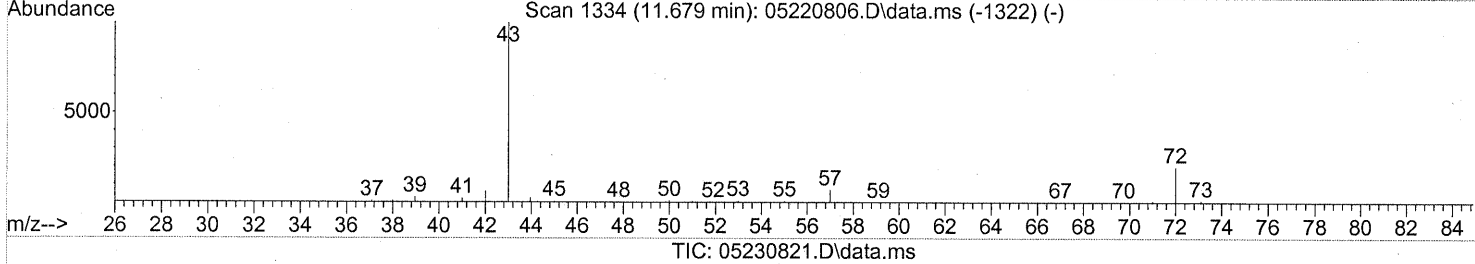
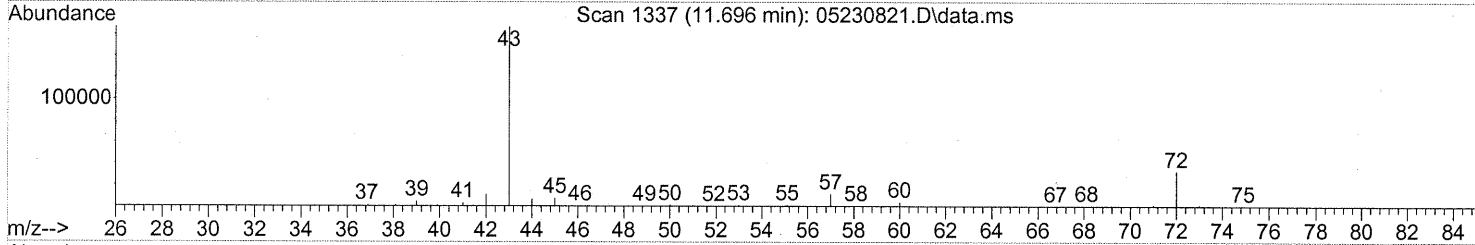
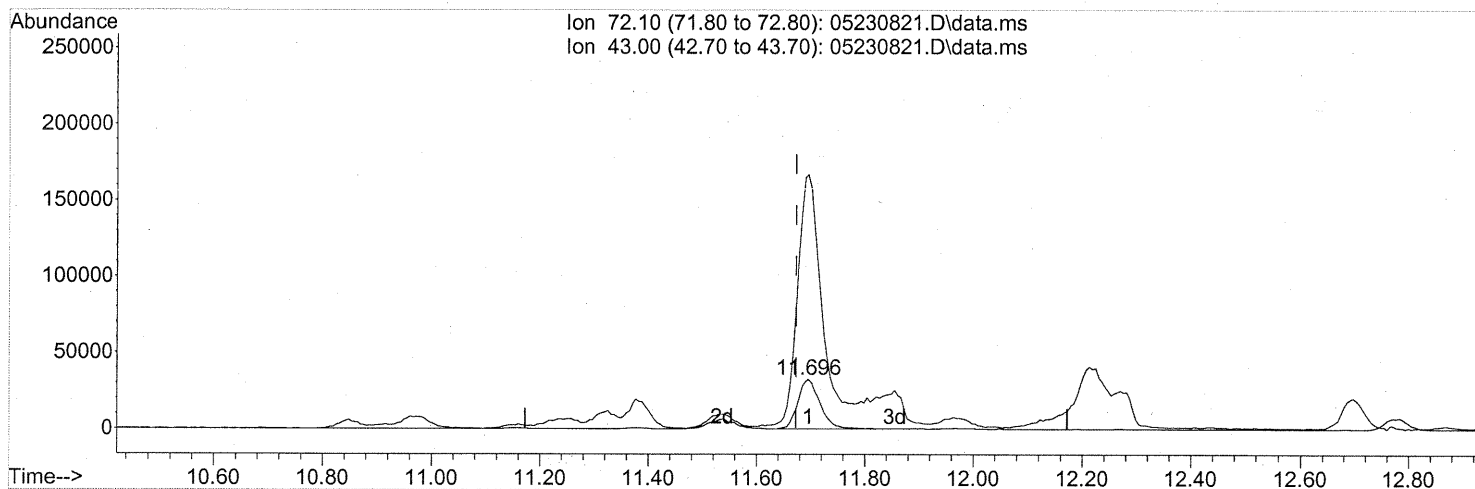
response 5383

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	344.47#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230821.D
Acq On : 23 May 2008 23:43
Operator : RTB
Sample : P0801483-004 (1000mL)
Misc : ENSR SG79B-05 (-2.8, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(27) 2-Butanone (T)

11.696min (+0.023) 5.97ng

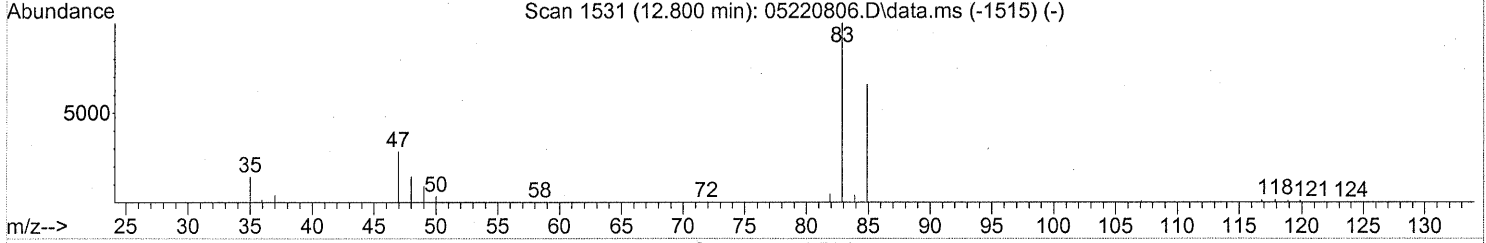
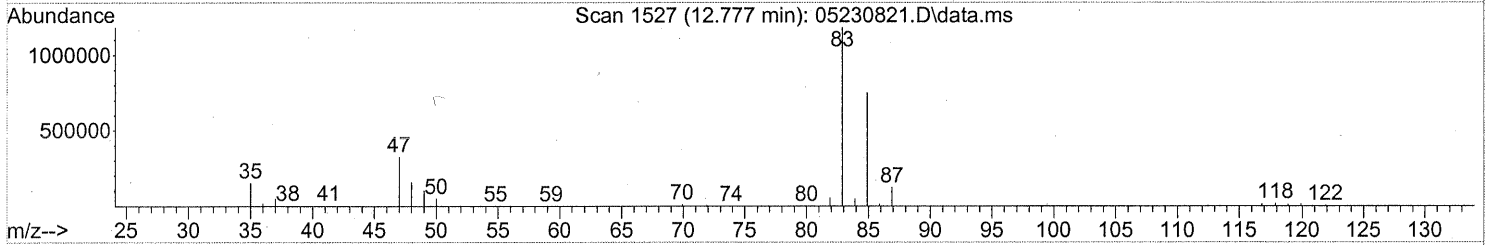
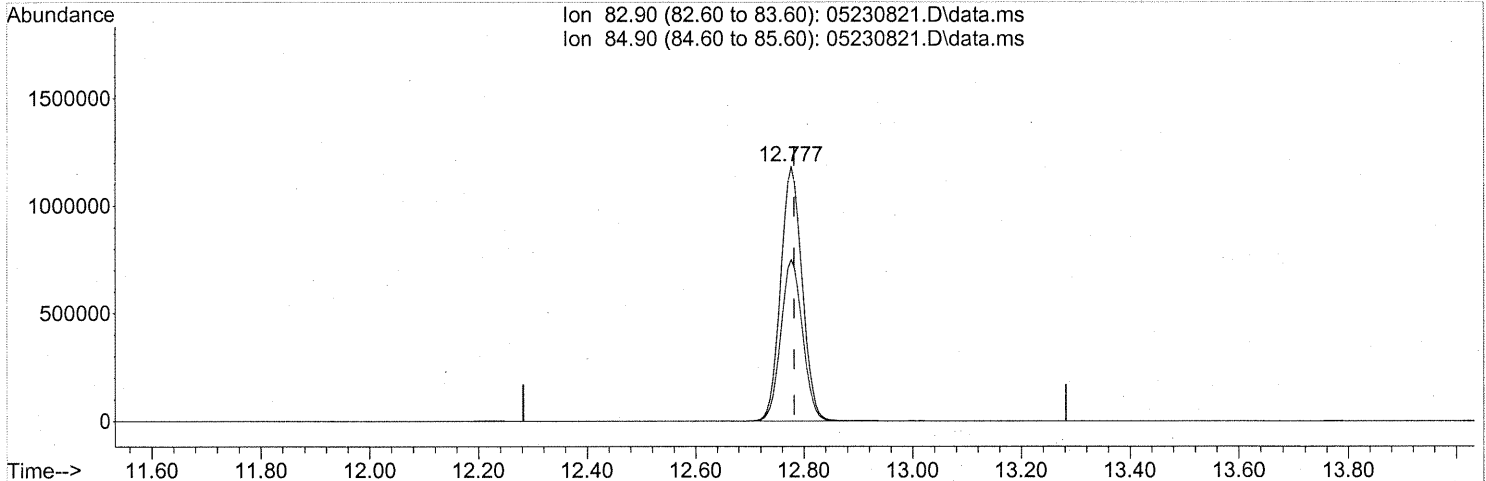
response 91708

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	695.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(32) Chloroform (T)

12.777min (-0.006) 91.13ng

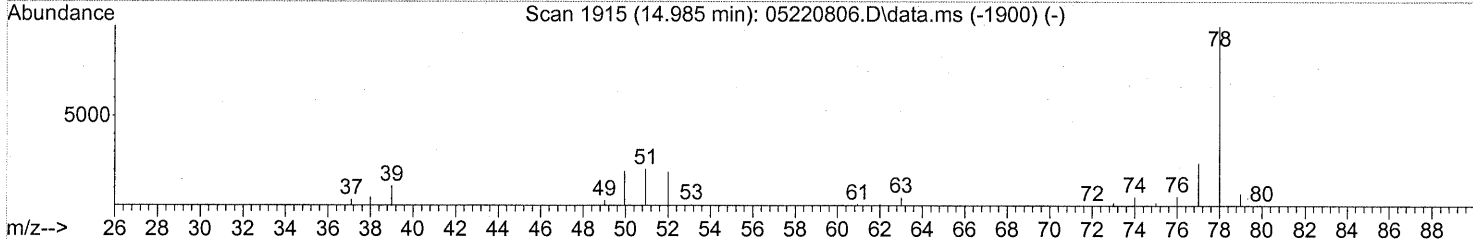
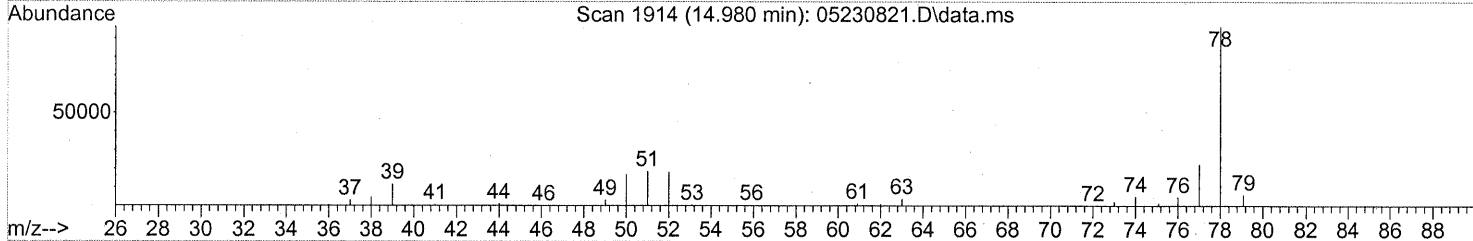
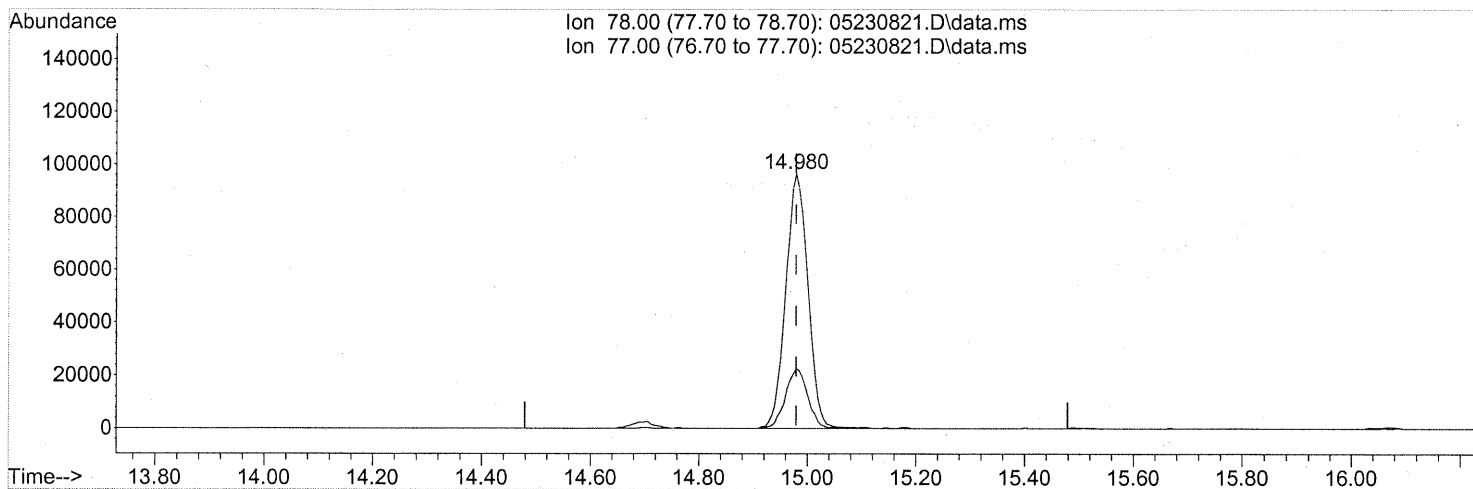
response 3246297

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230821.D
Acq On : 23 May 2008 23:43
Operator : RTB
Sample : P0801483-004 (1000mL)
Misc : ENSR SG79B-05 (-2.8, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(41) Benzene (T)

14.980min (+0.000) 2.73ng

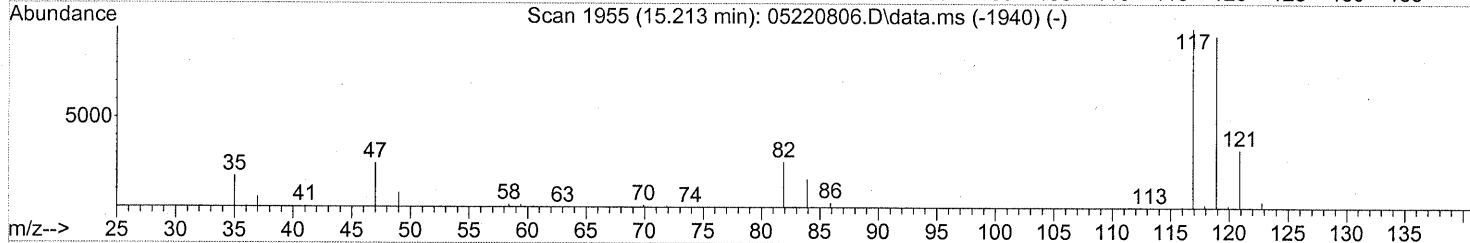
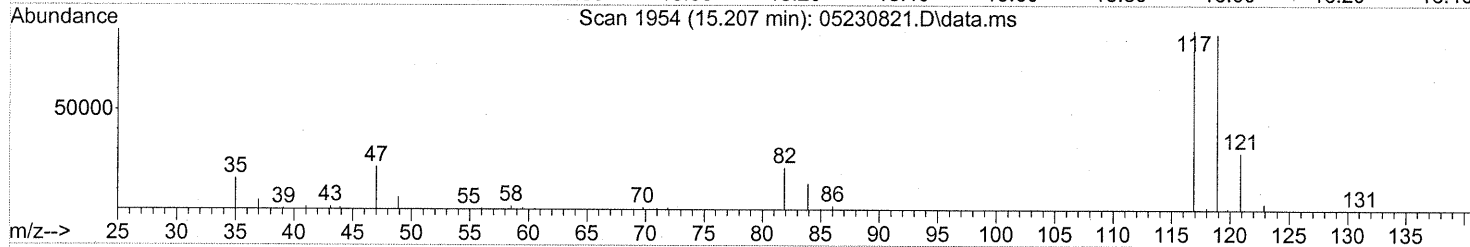
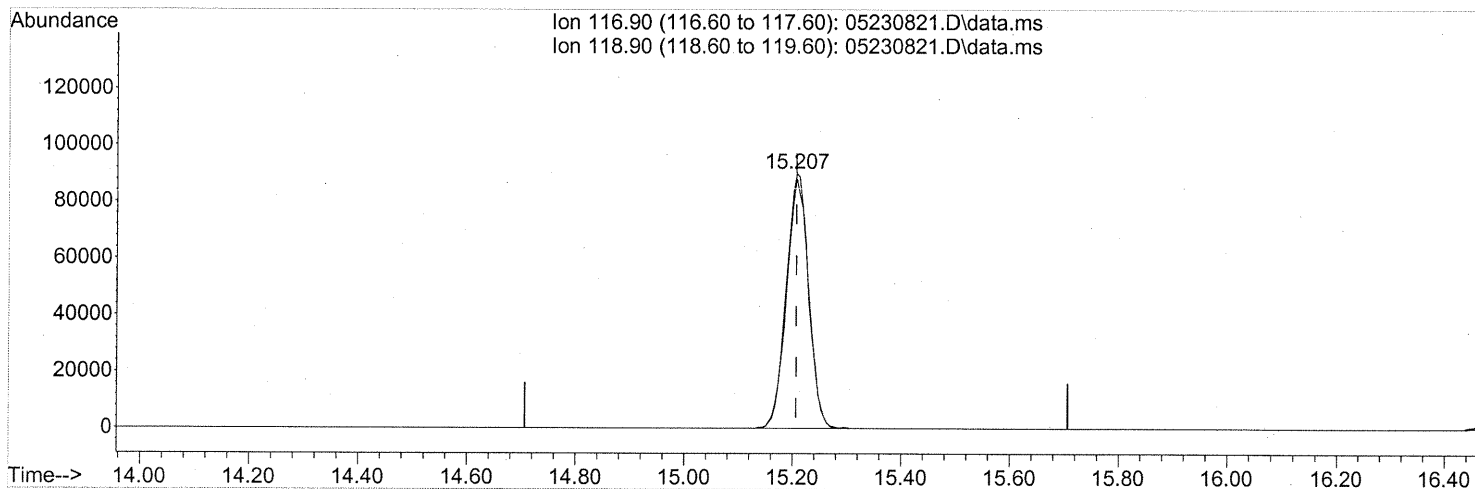
response 271761

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (+0.000) 6.72ng

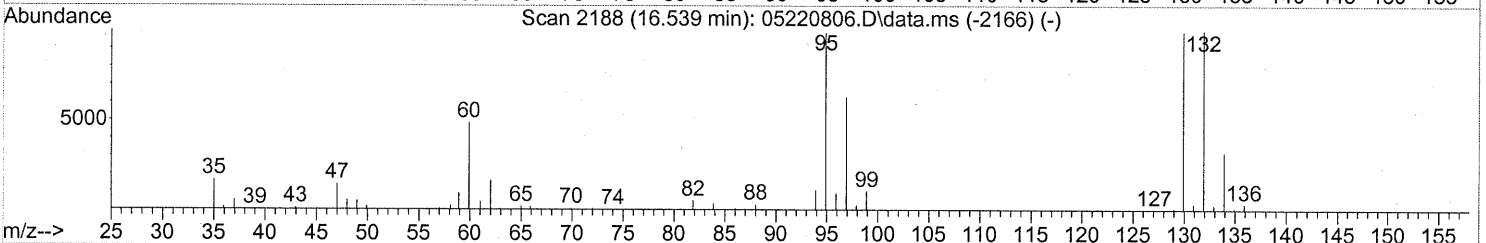
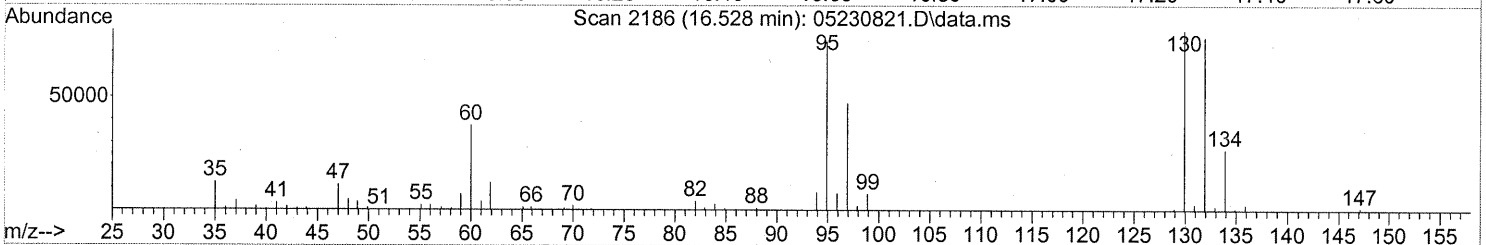
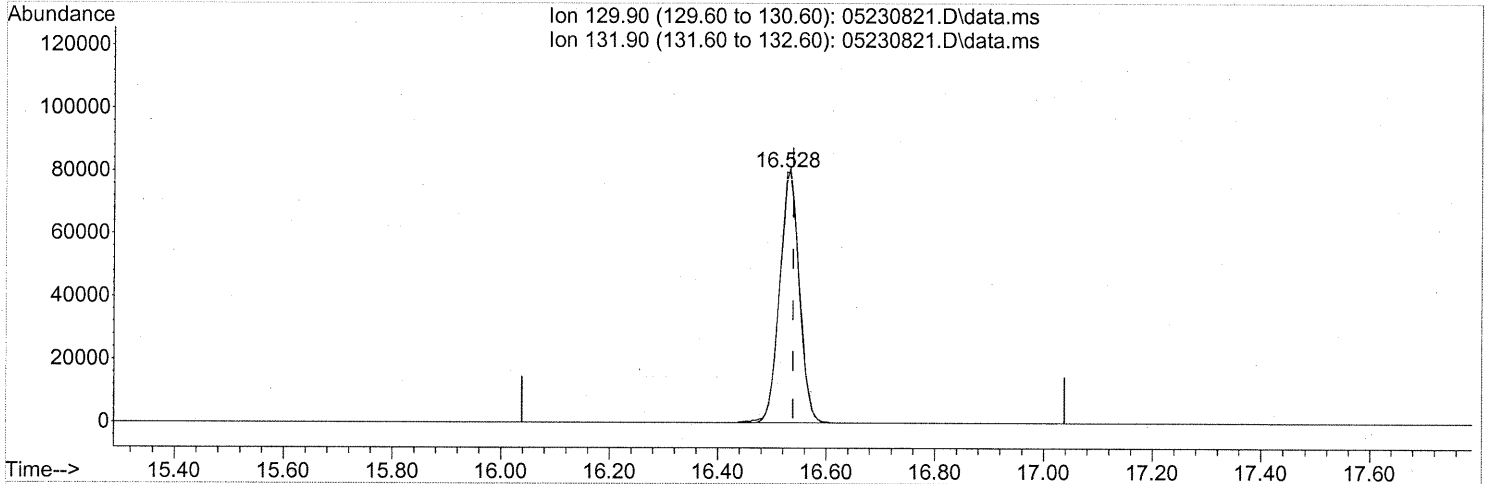
response 257745

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	96.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(47) Trichloroethene (T)

16.528min (-0.011) 6.52ng

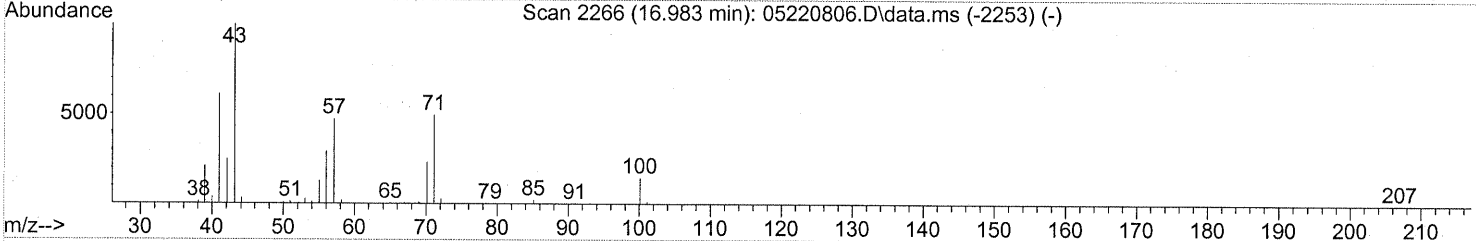
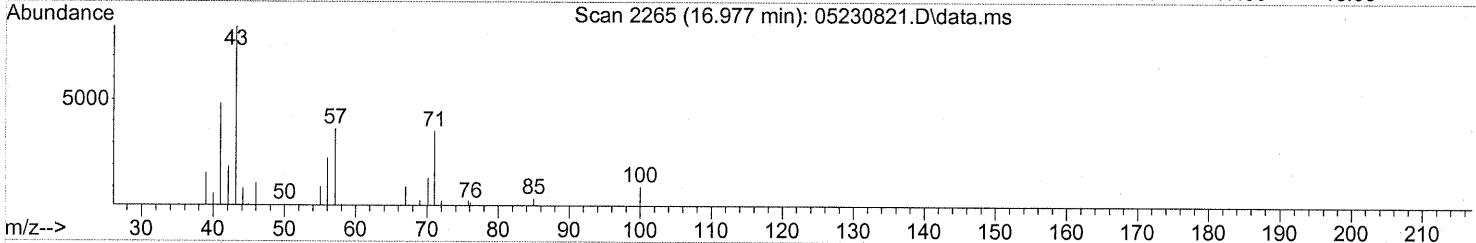
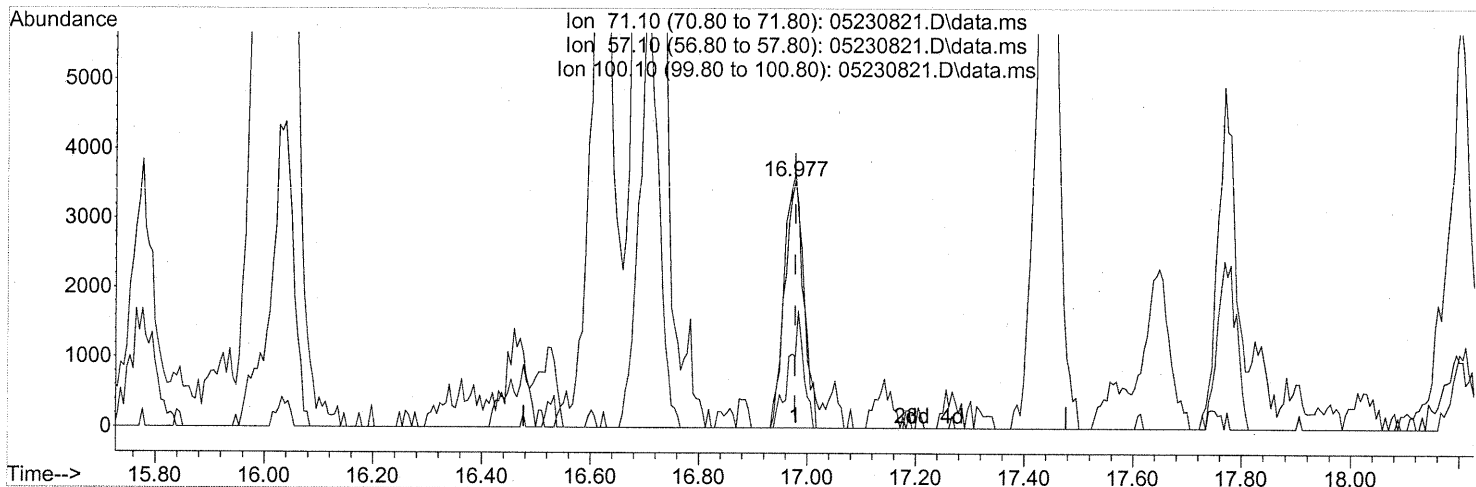
response 199003

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



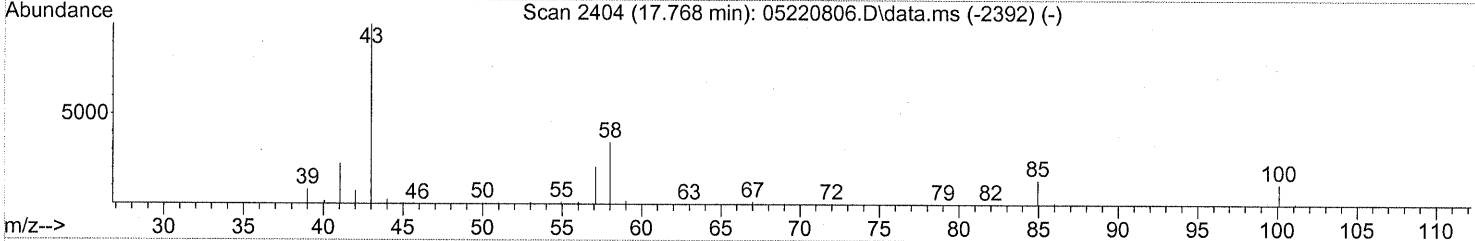
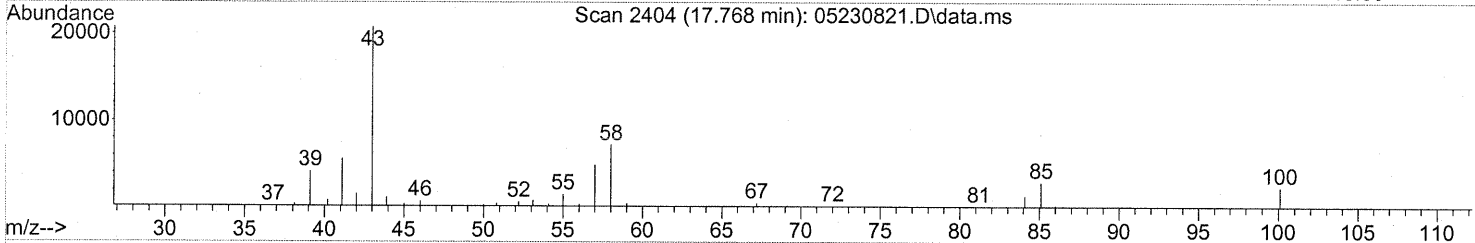
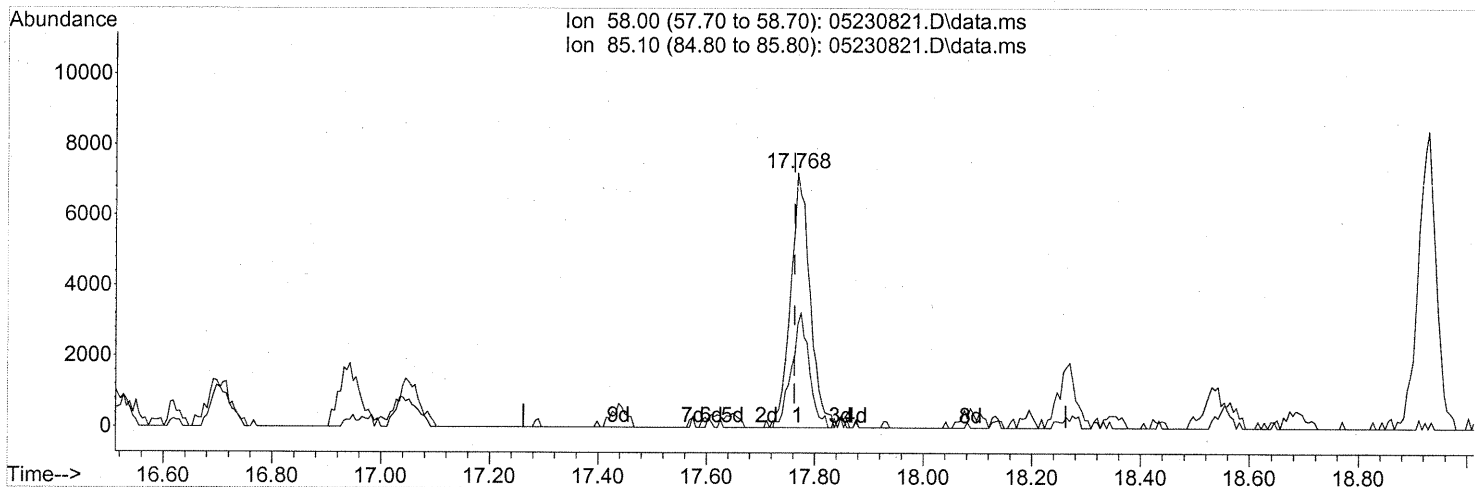
(51) n-Heptane (T)
 16.977min (+0.000) 0.32ng
 response 8487

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	112.31
100.10	30.10	36.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230821.D
Acq On : 23 May 2008 23:43
Operator : RTB
Sample : P0801483-004 (1000mL)
Misc : ENSR SG79B-05 (-2.8, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05230821.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.768min (+0.006) 0.68ng

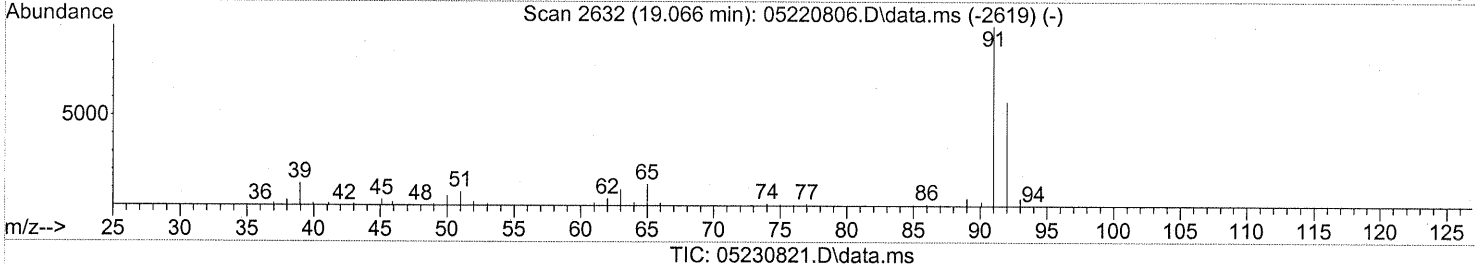
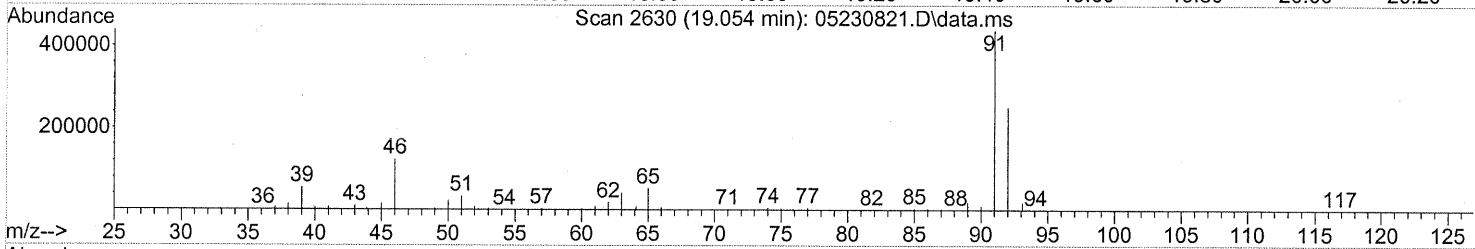
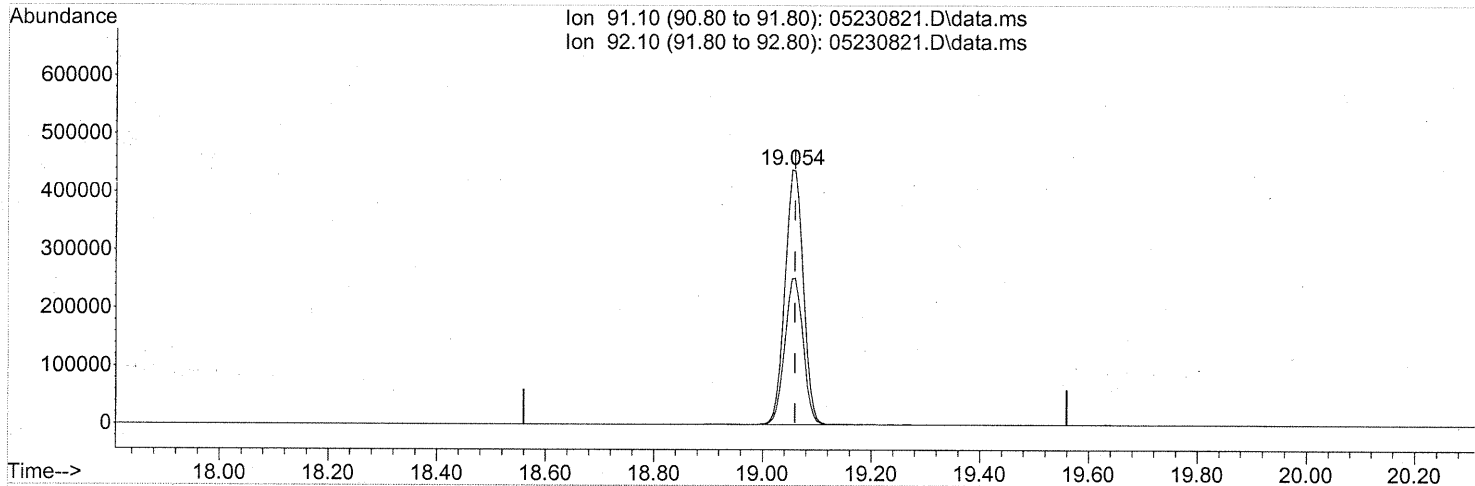
response 17919

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	41.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(58) Toluene (T)

19.054min (-0.006) 9.12ng

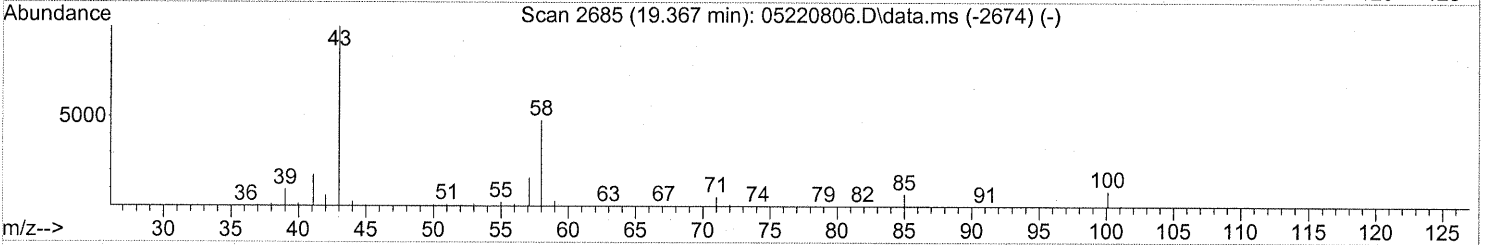
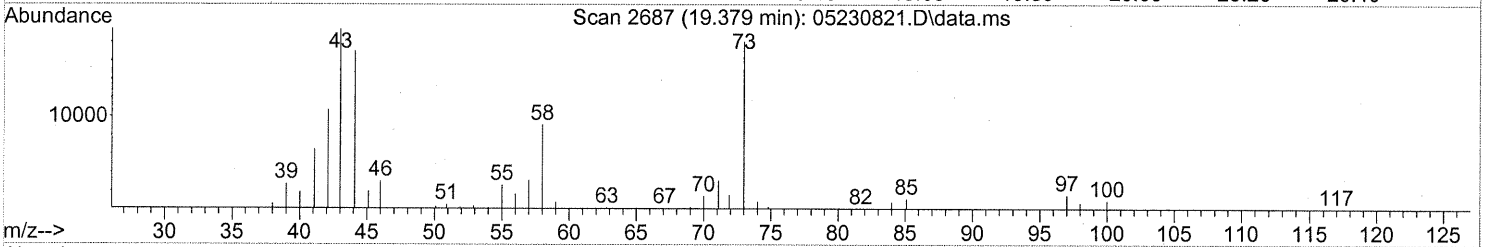
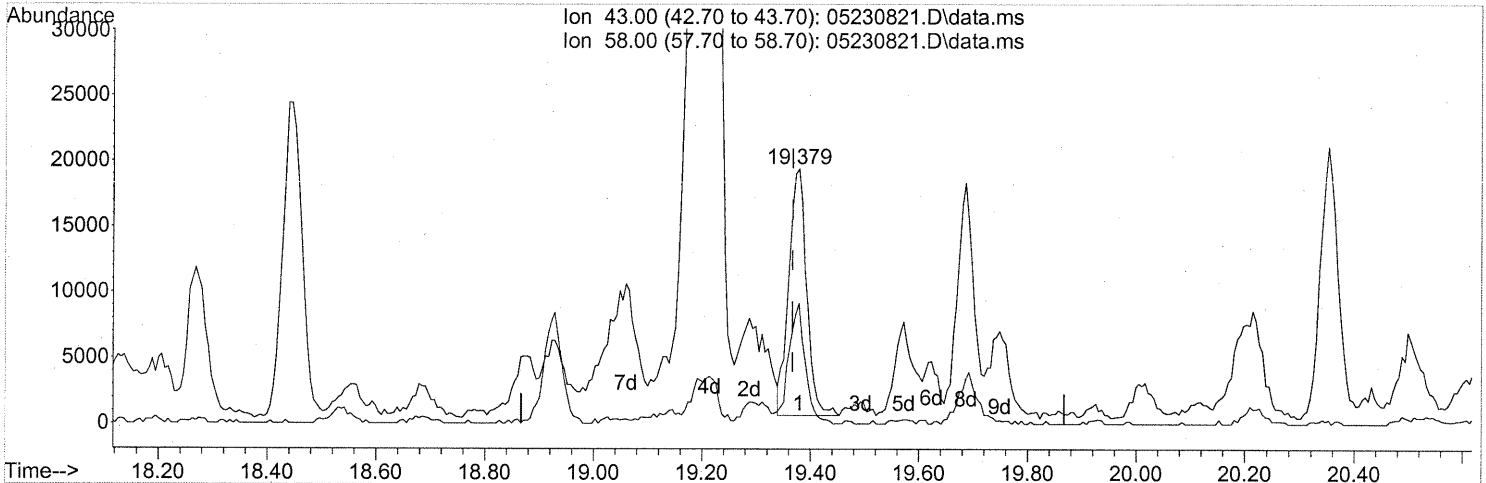
response 1026191

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

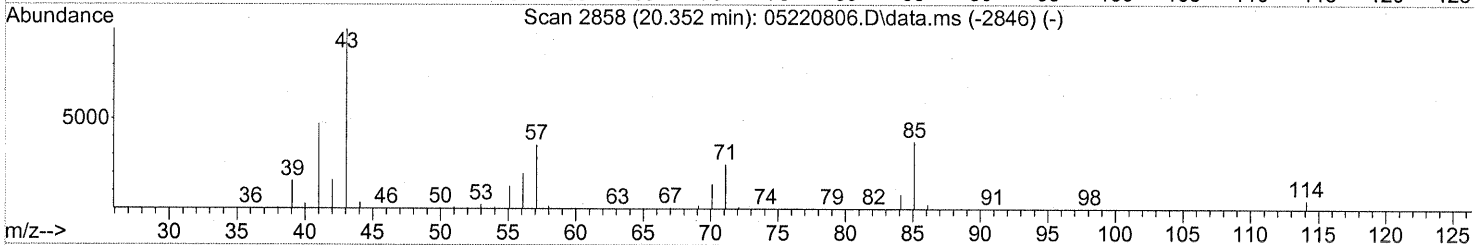
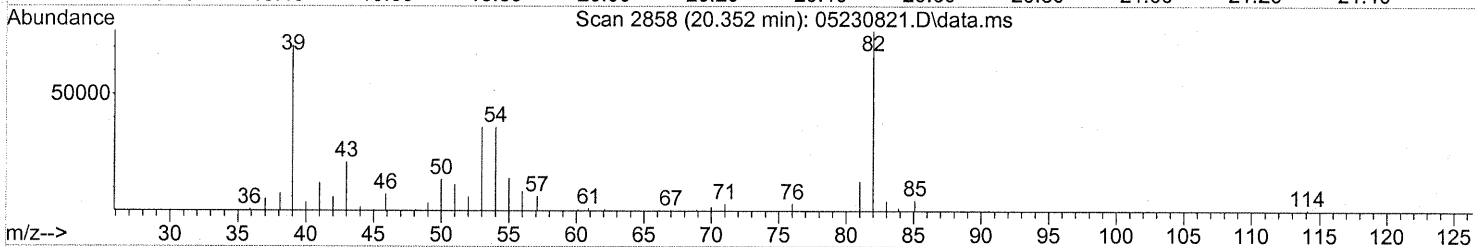
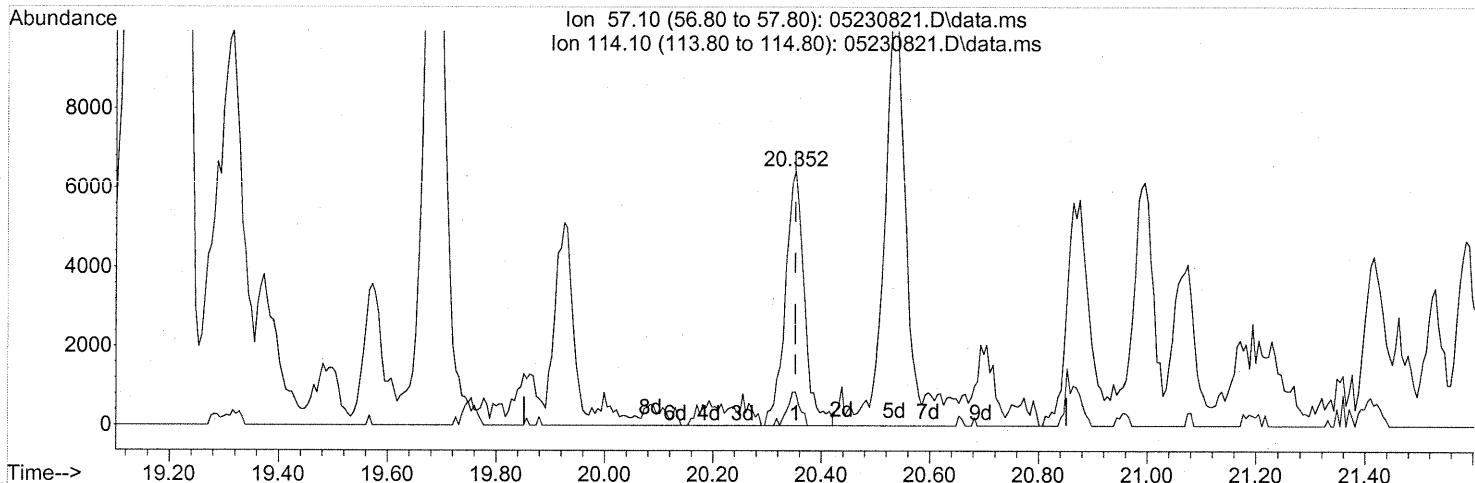
(59) 2-Hexanone (T)
 19.379min (+0.011) 0.56ng
 response 43112

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	45.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

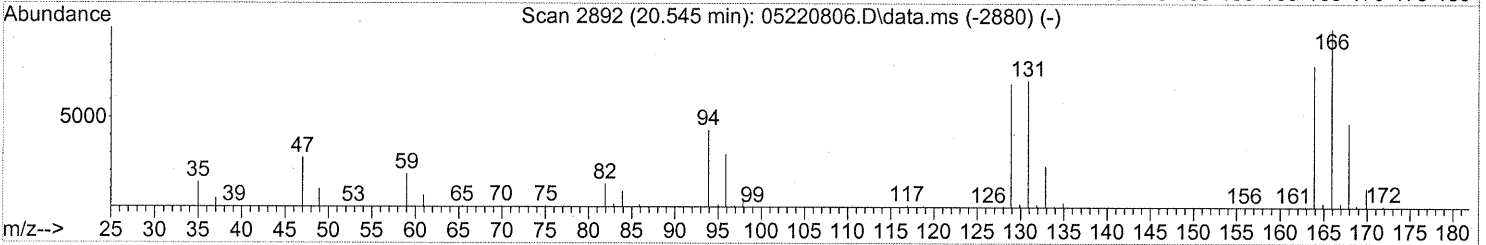
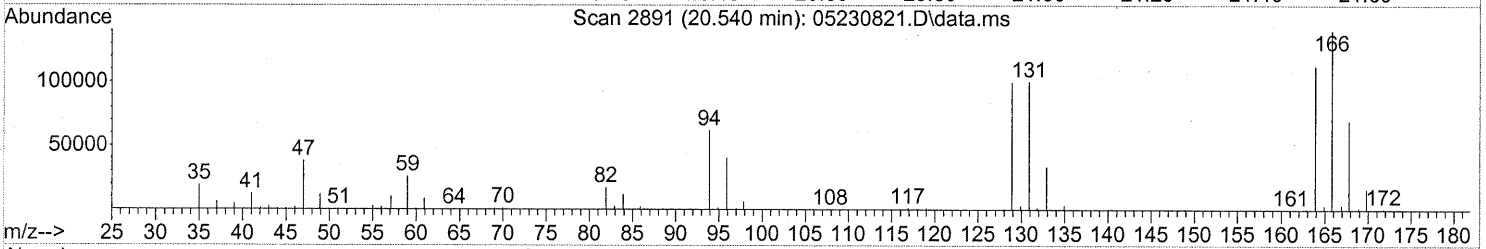
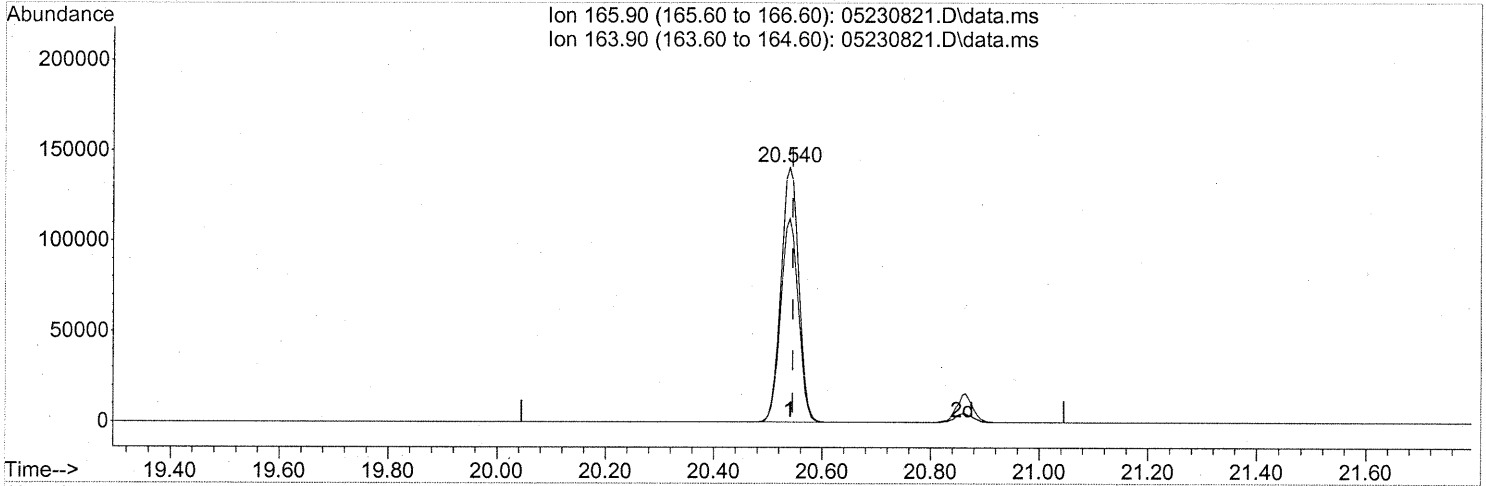
(63) n-Octane (T)
 20.352min (+0.000) 0.63ng
 response 15775

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	8.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 9.53ng

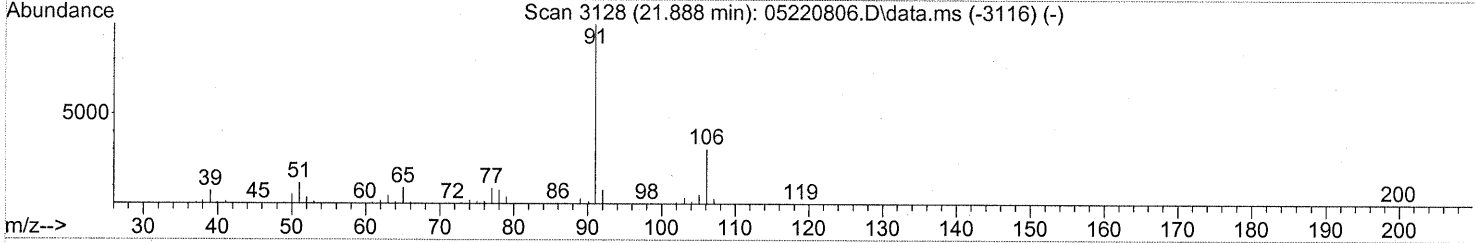
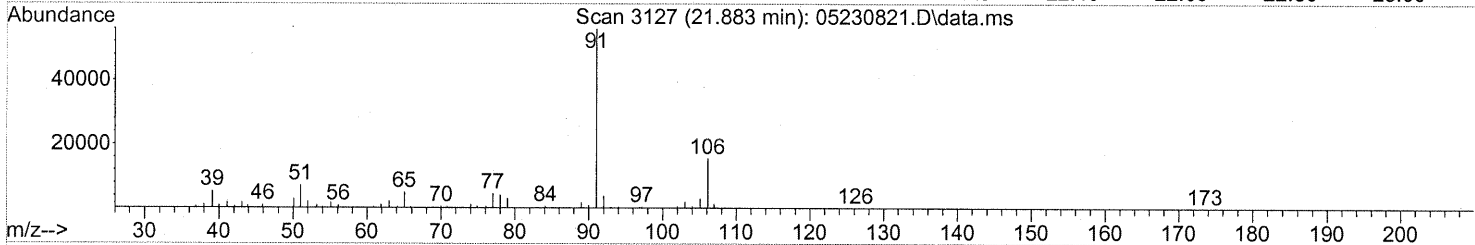
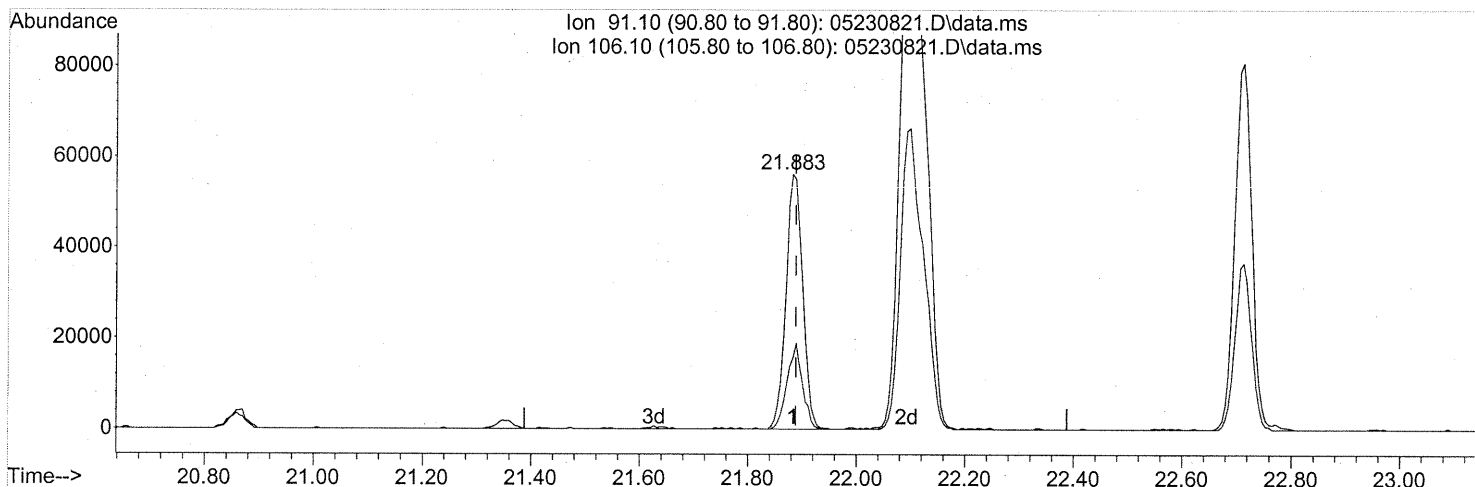
response 317400

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

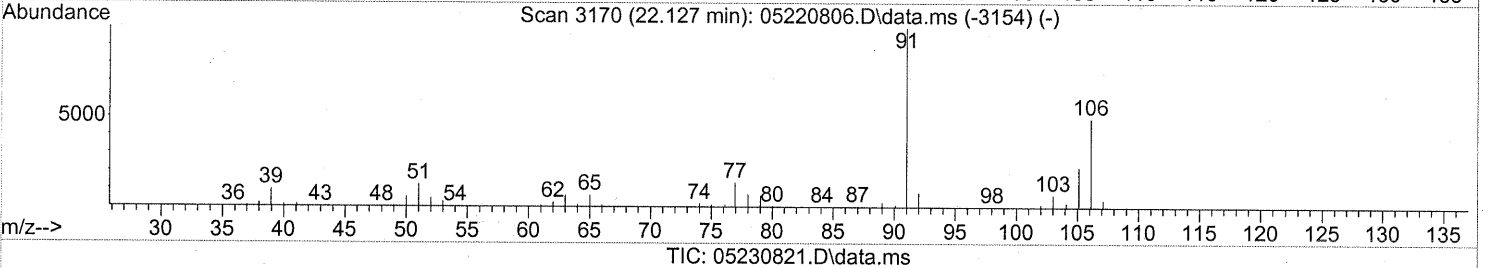
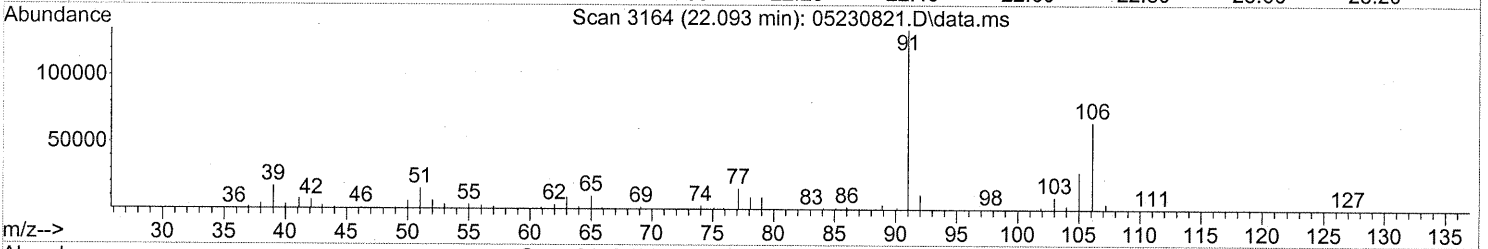
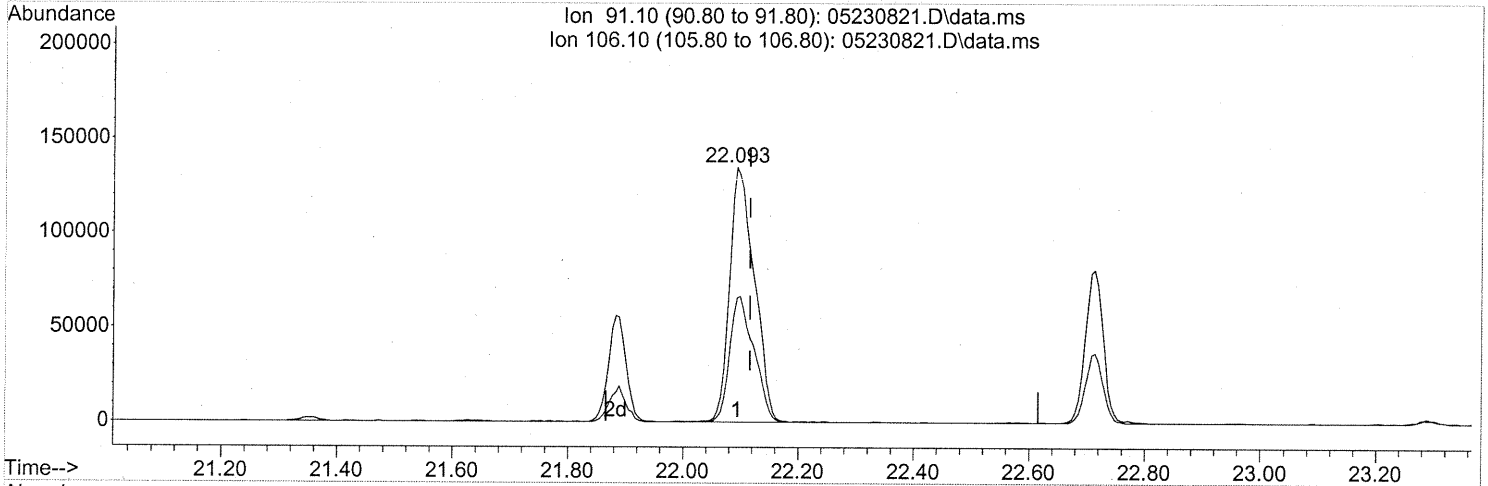
(66) Ethylbenzene (T)
 21.883min (-0.006) 0.92ng
 response 119170

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(67) m- & p-Xylene (T)

22.093min (-0.023) 4.64ng

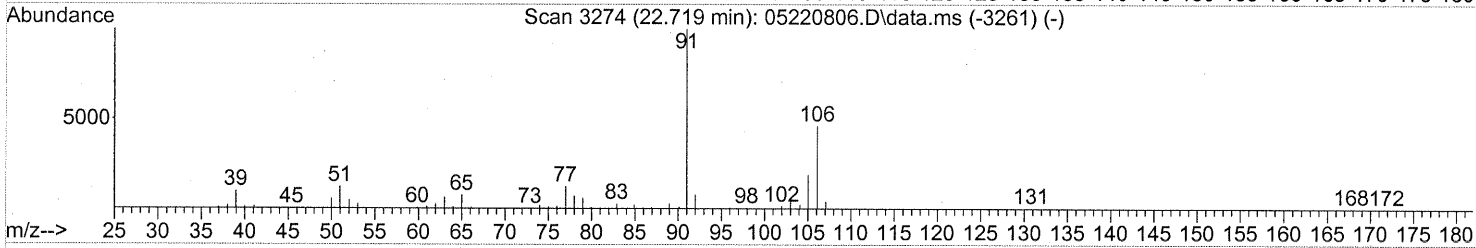
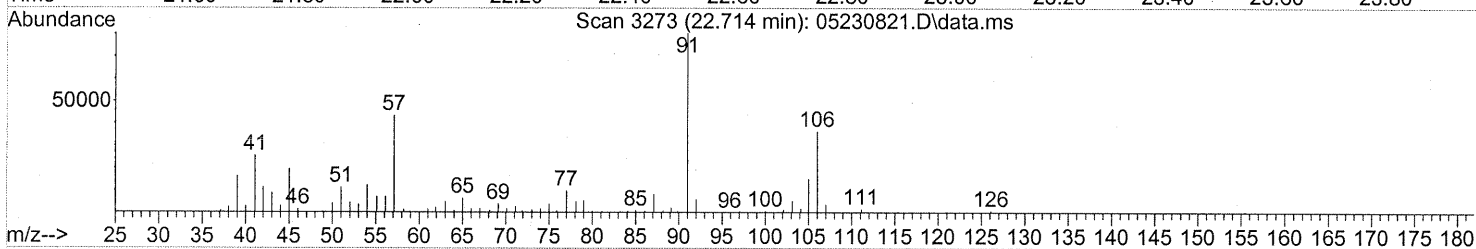
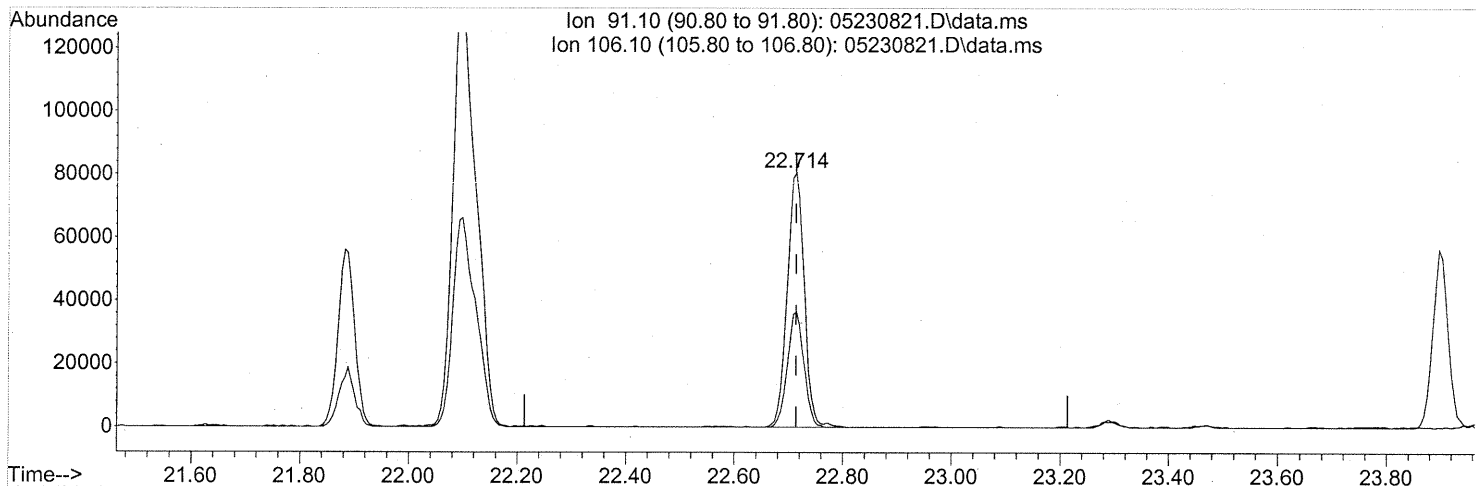
response 401032

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



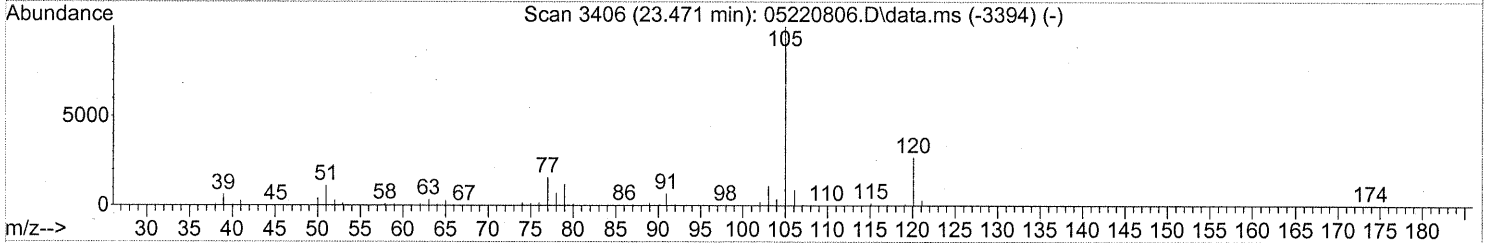
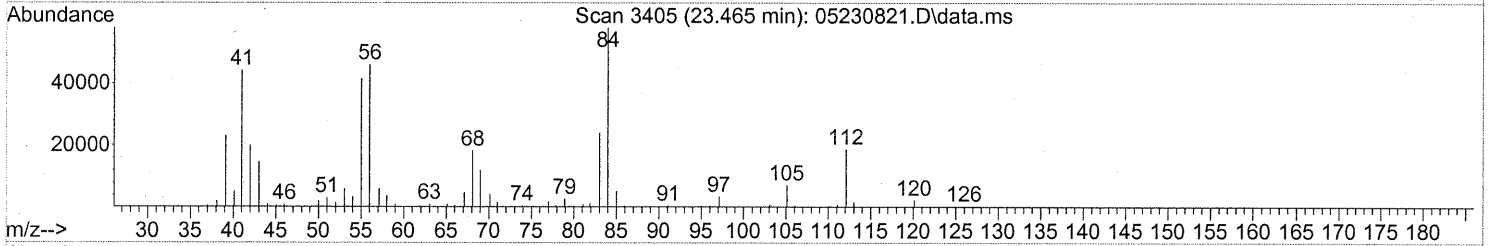
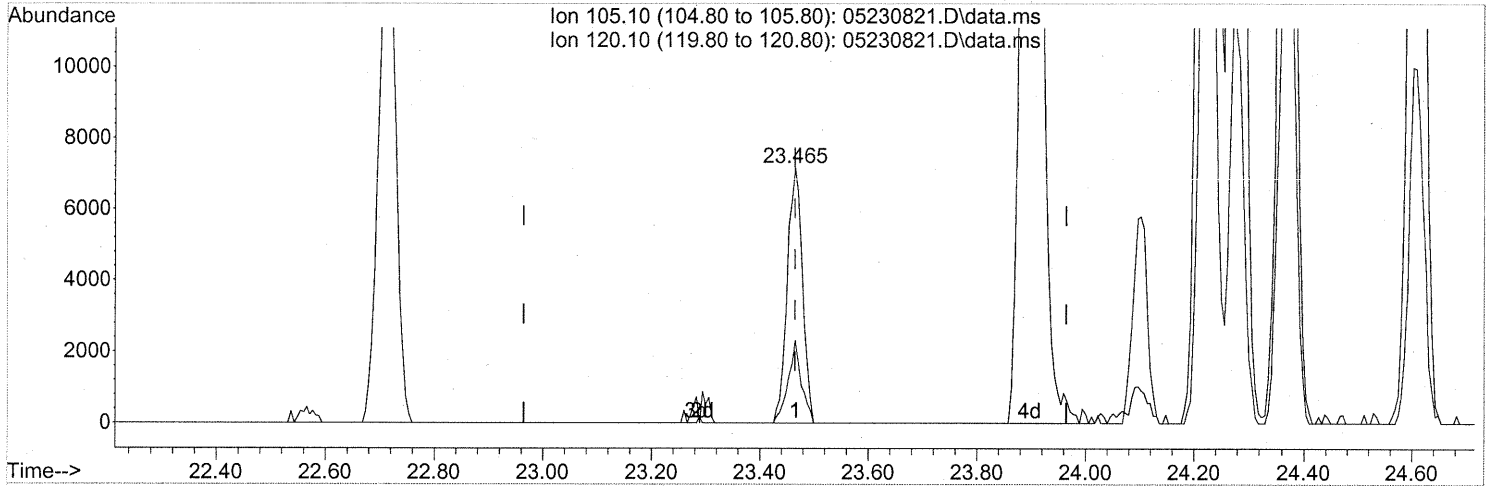
(70) o-Xylene (T)
 22.714min (+0.000) 1.88ng
 response 175597

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	43.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(74) Cumene (T)

23.465min (+0.000) 0.11ng

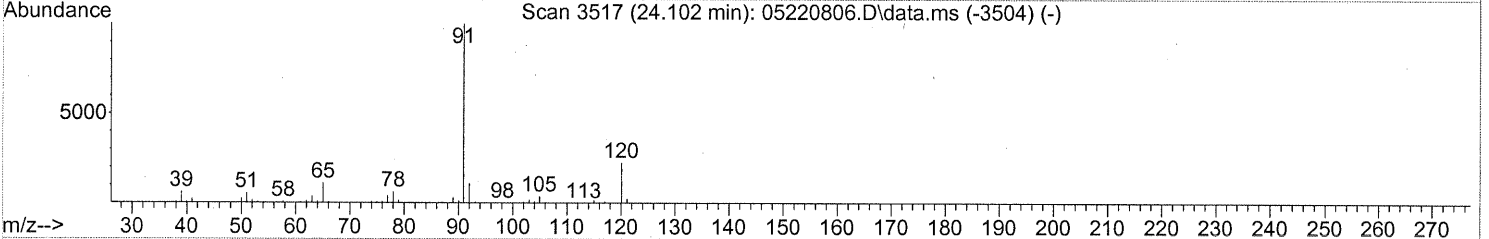
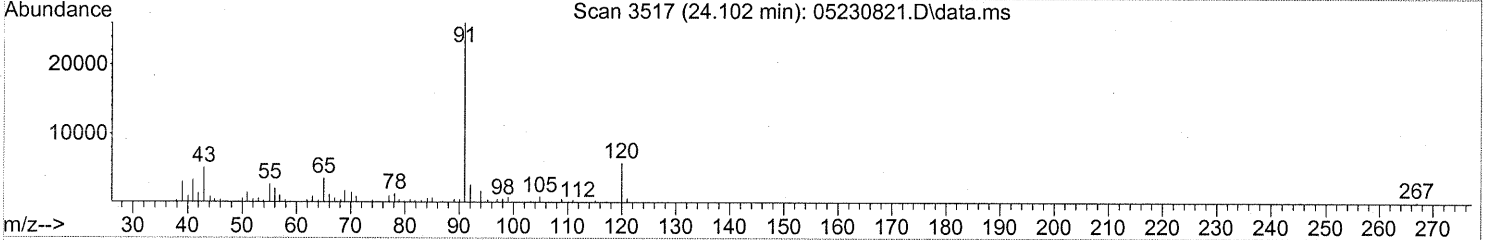
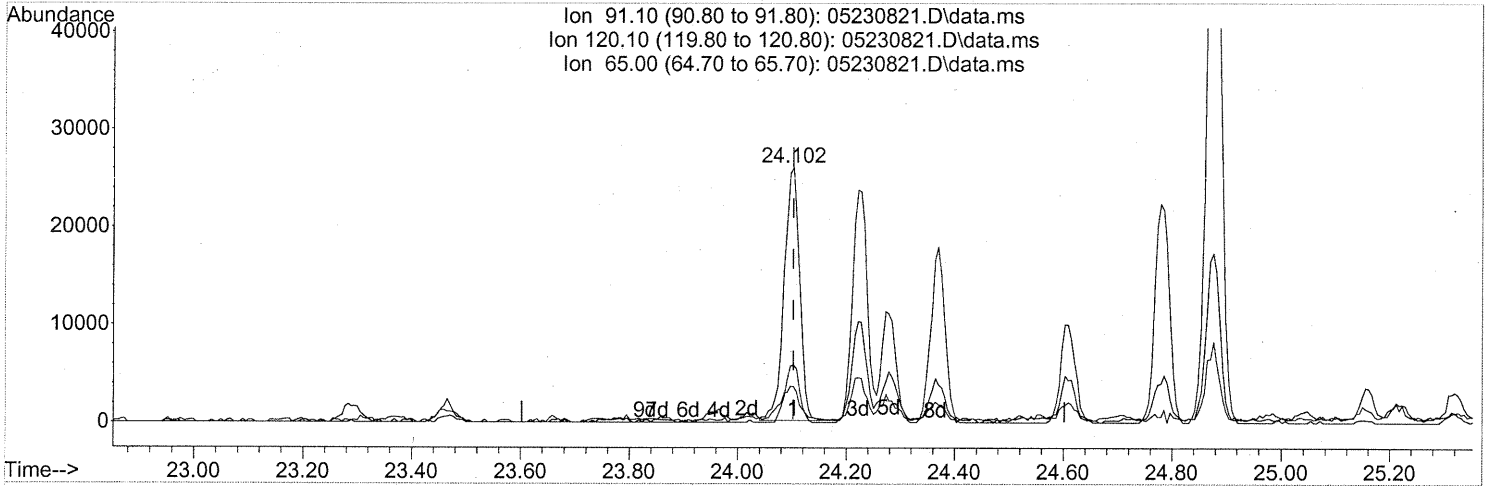
response 13949

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	28.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

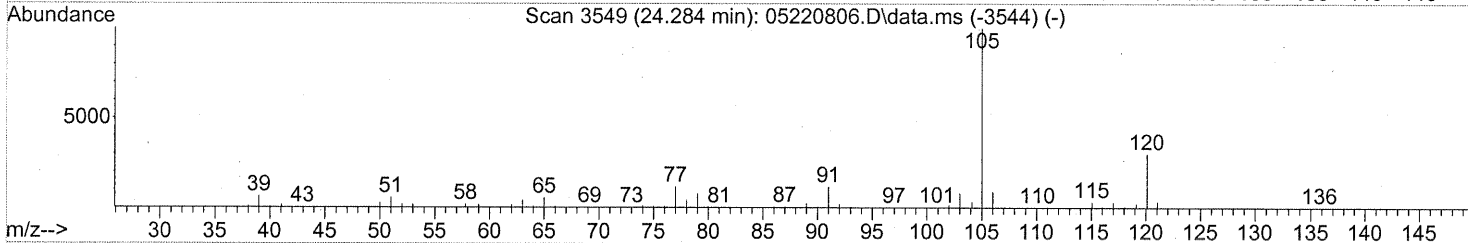
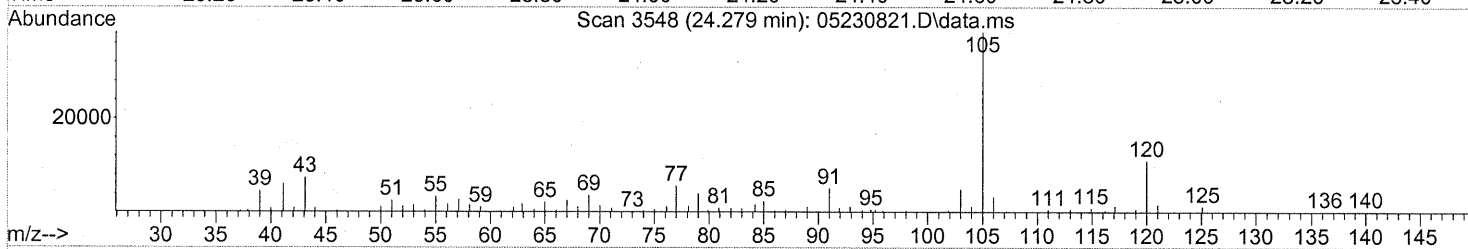
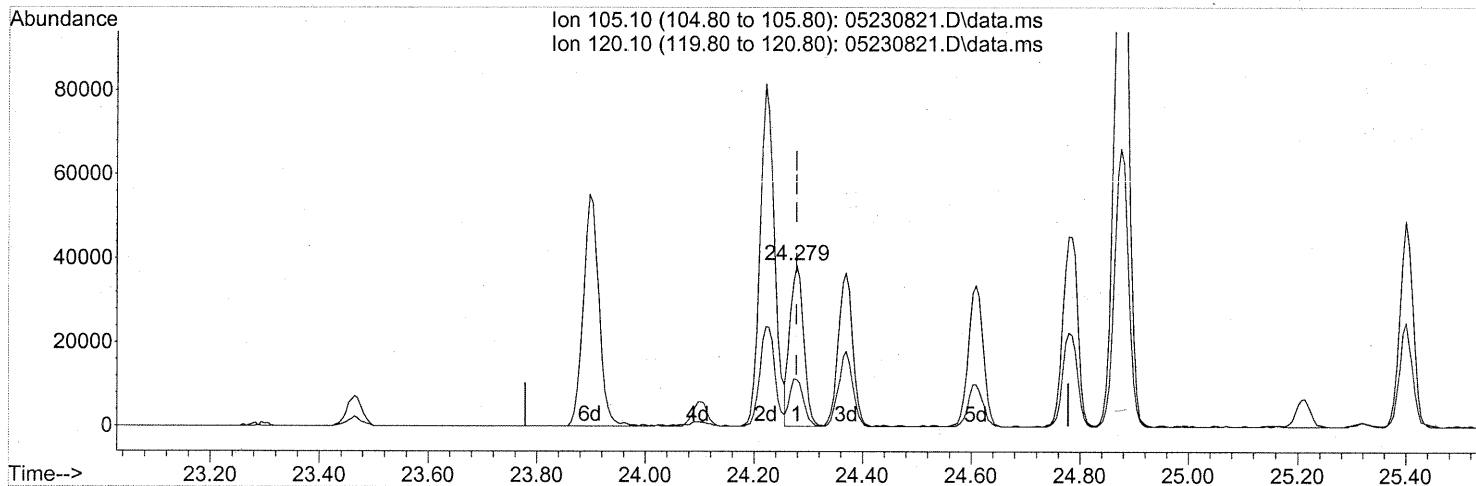
(76) n-Propylbenzene (T)
 24.102min (+0.000) 0.32ng
 response 51312

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	21.19
65.00	11.40	17.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

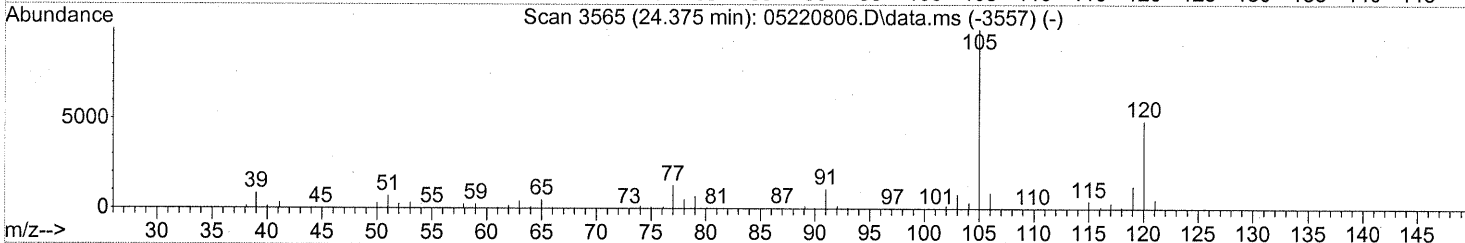
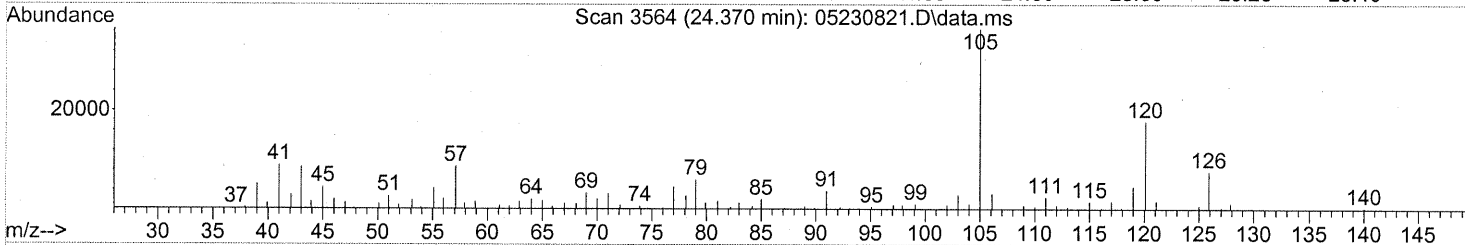
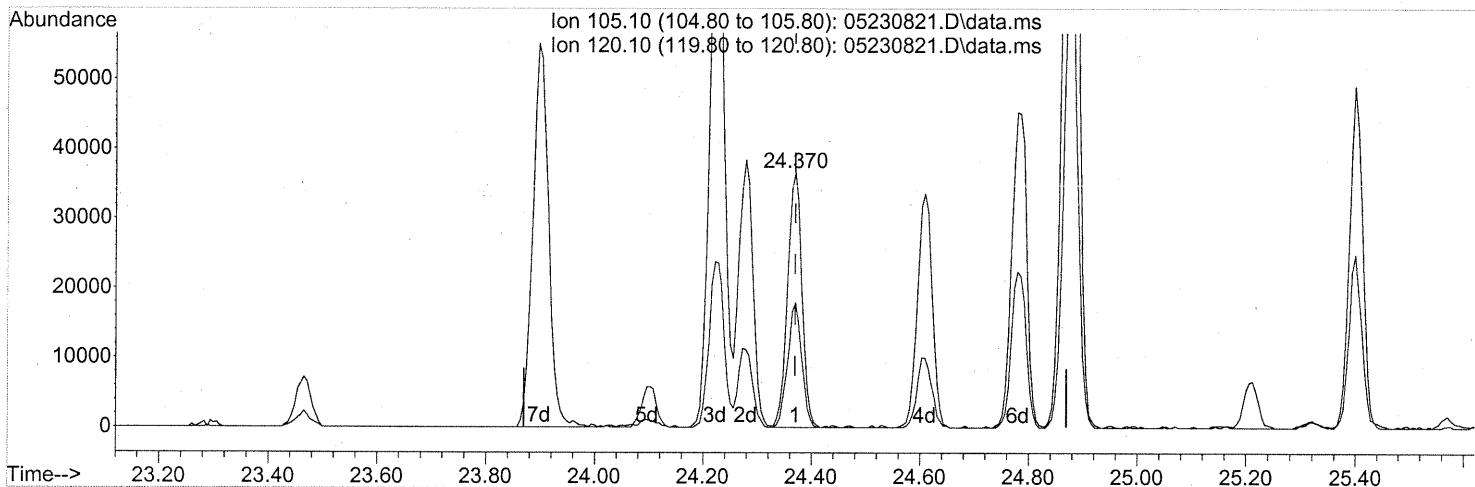
(78) 4-Ethyltoluene (T)
 24.279min (+0.000) 0.55ng
 response 68140

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

24.370min (+0.000) 0.61ng

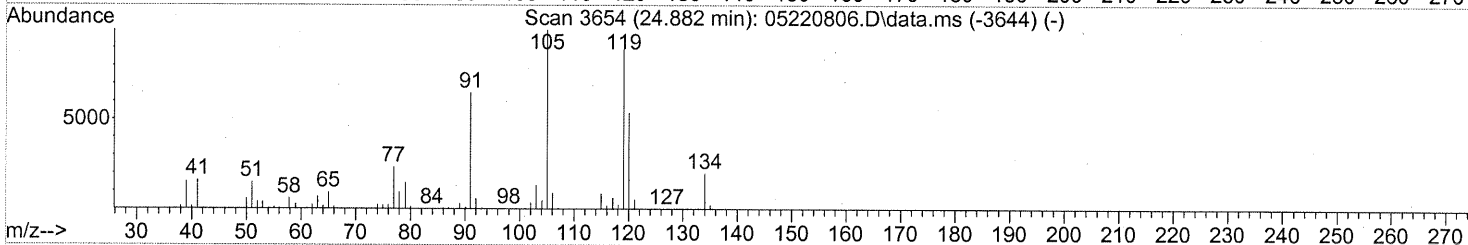
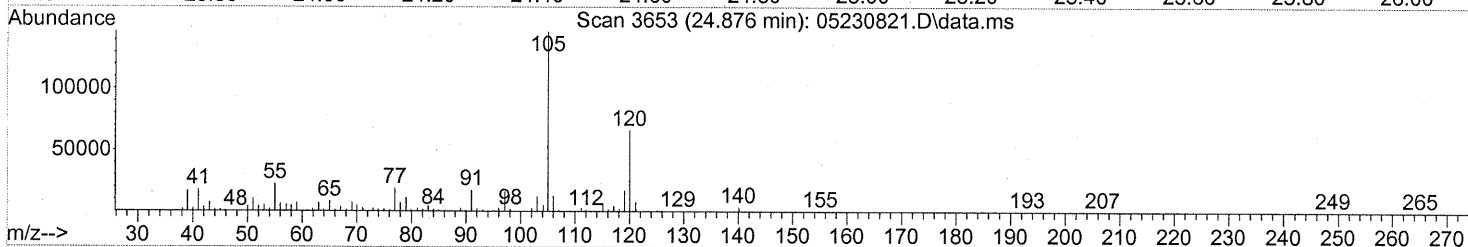
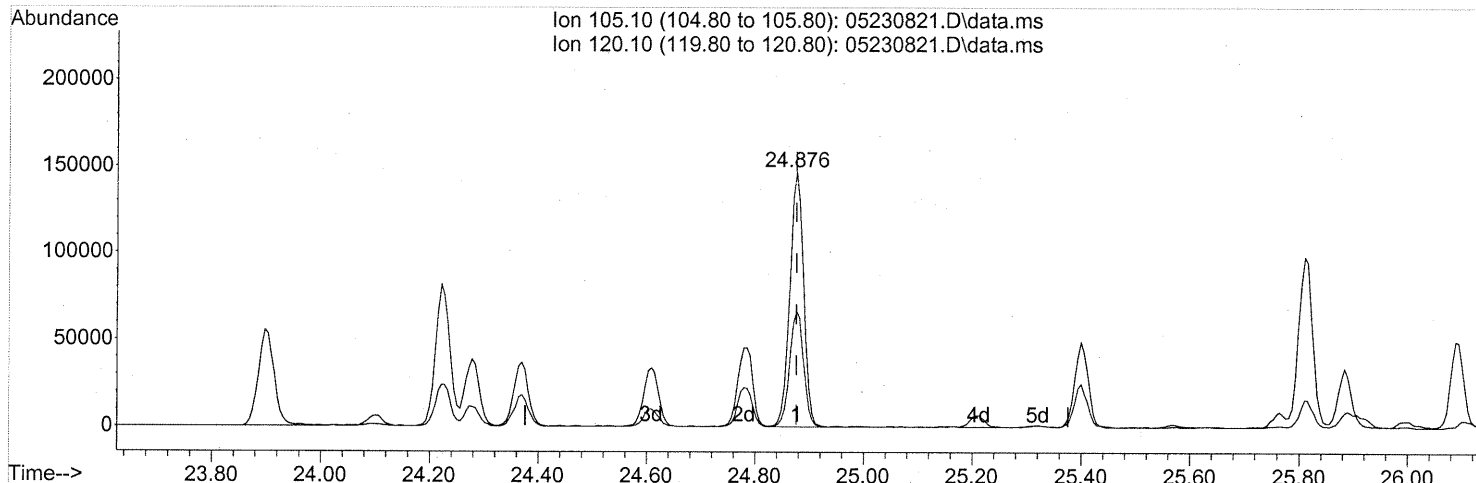
response 67607

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	47.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.876min (+0.000) 2.29ng

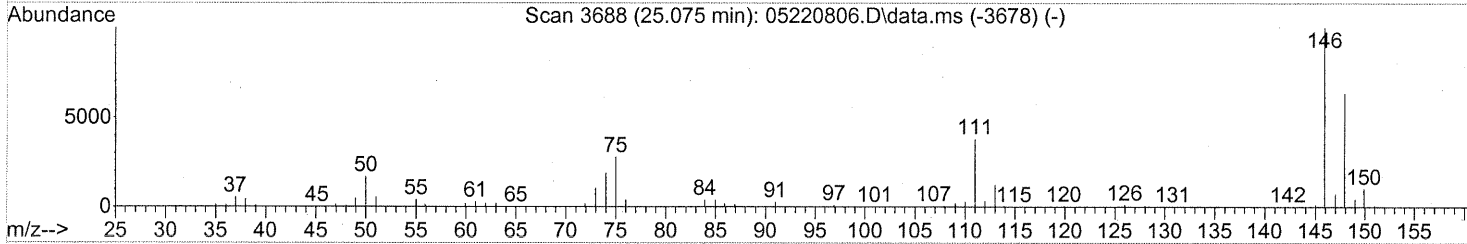
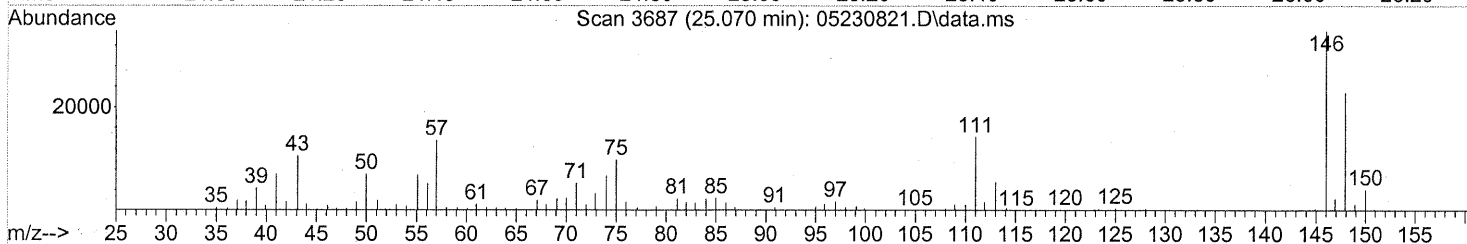
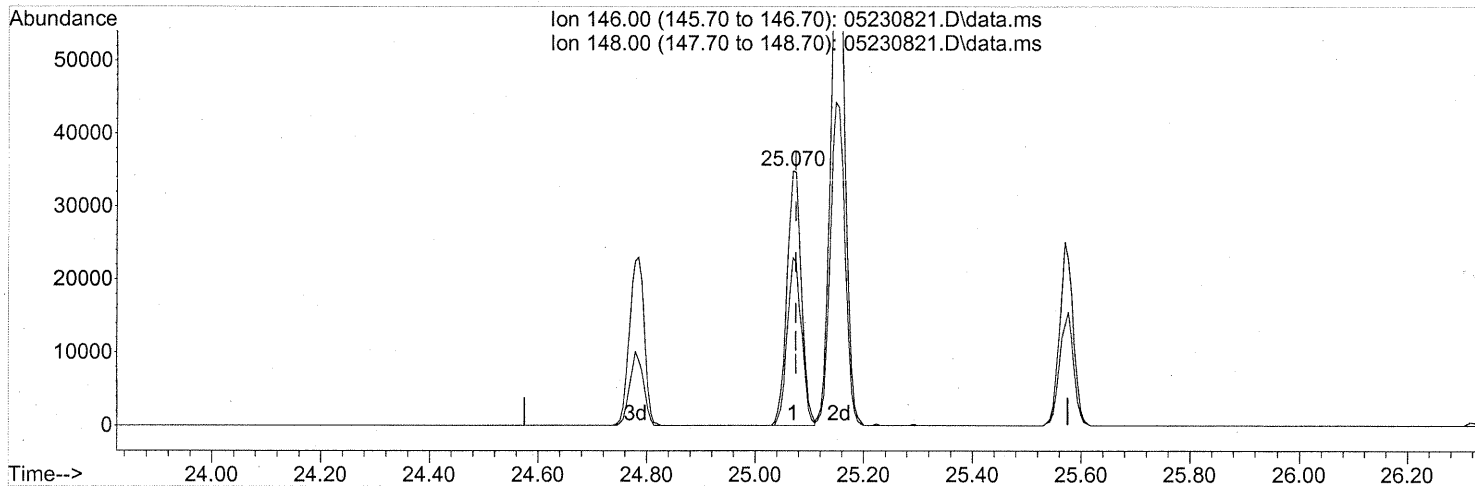
response 259002

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.070min (-0.006) 0.91ng

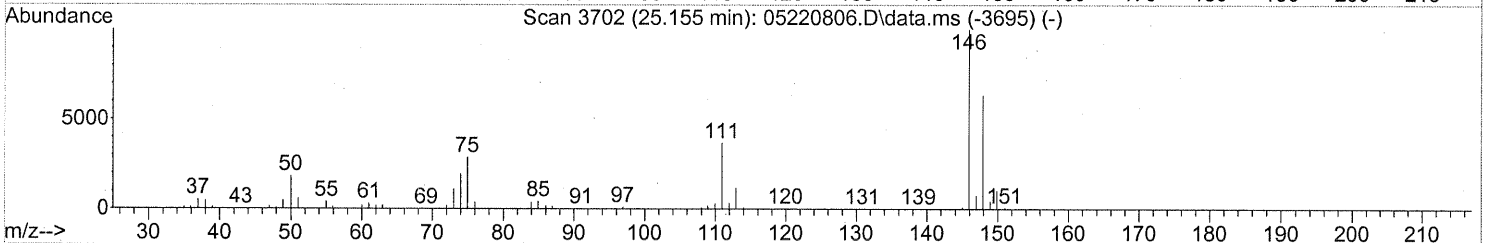
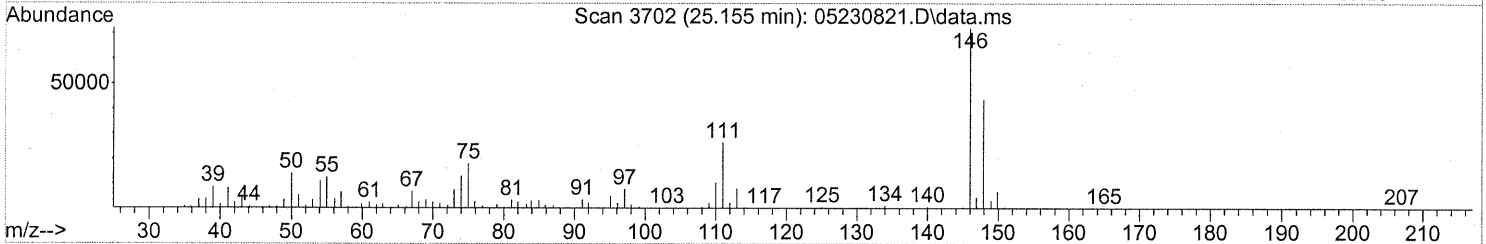
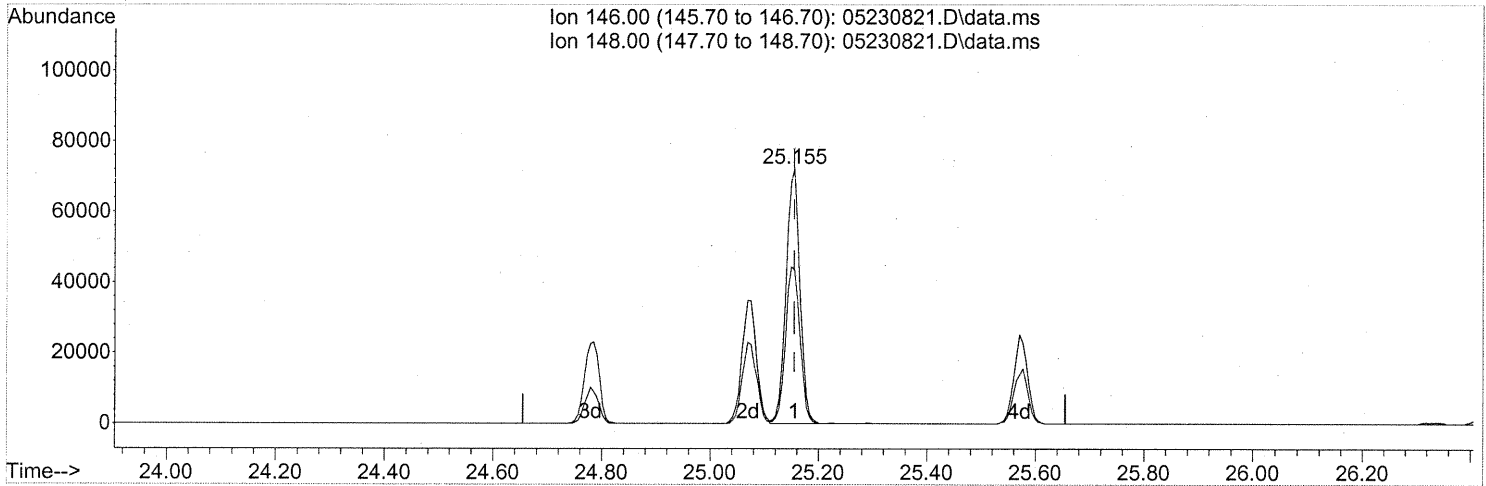
response 64504

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	64.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 1.88ng

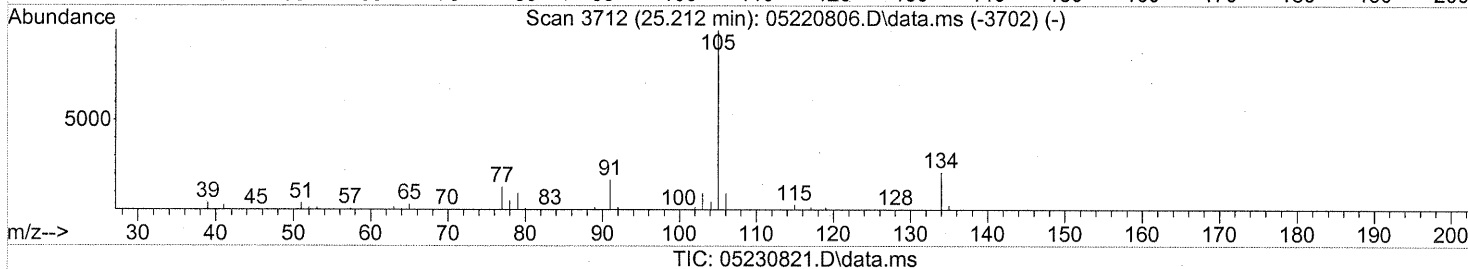
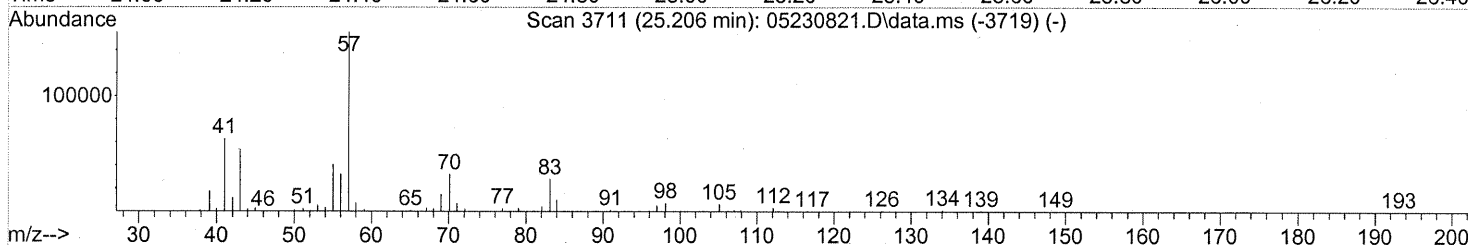
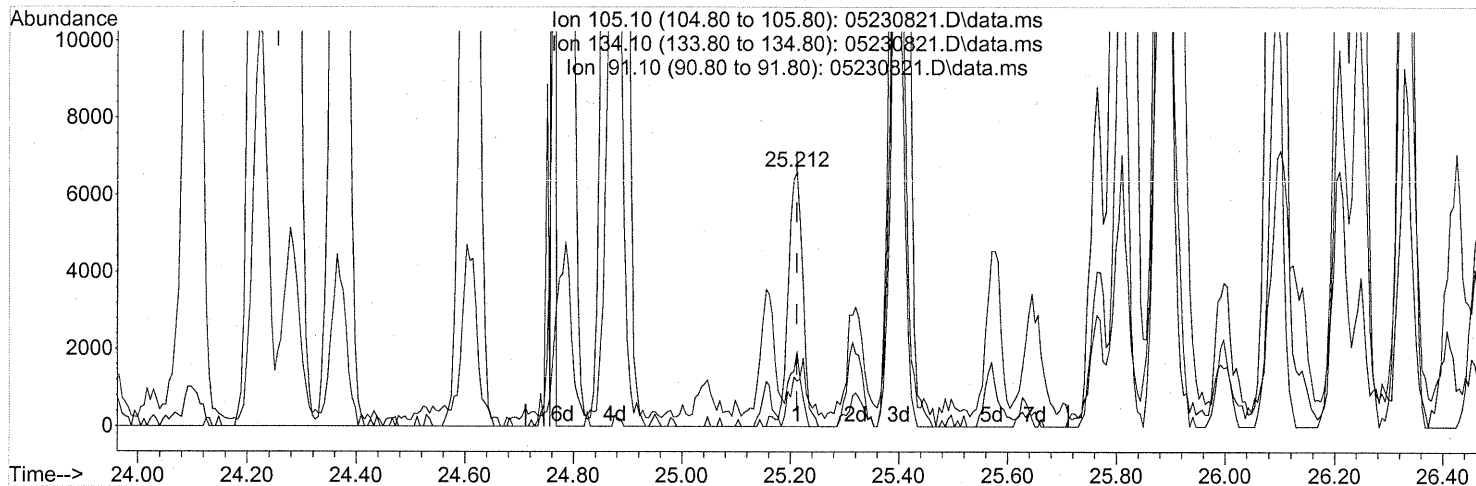
response 128965

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

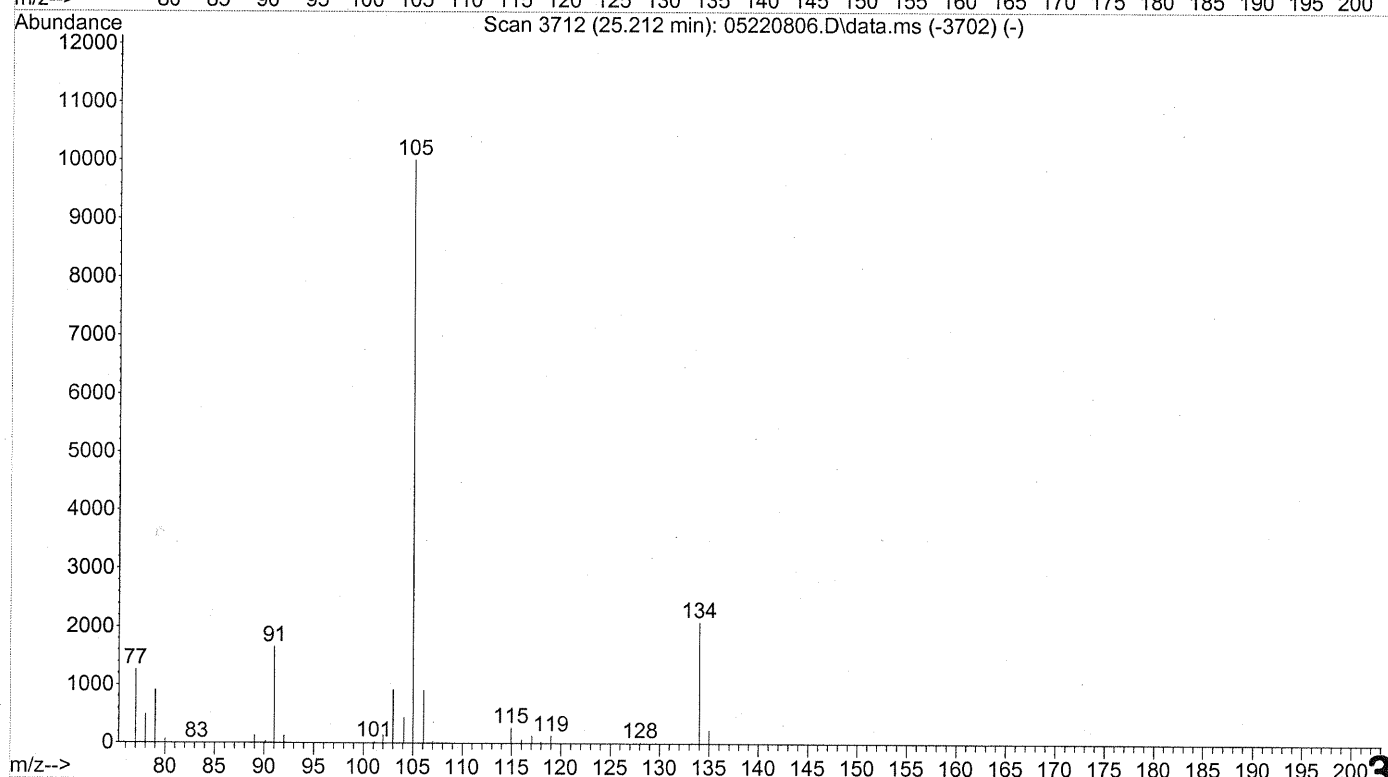
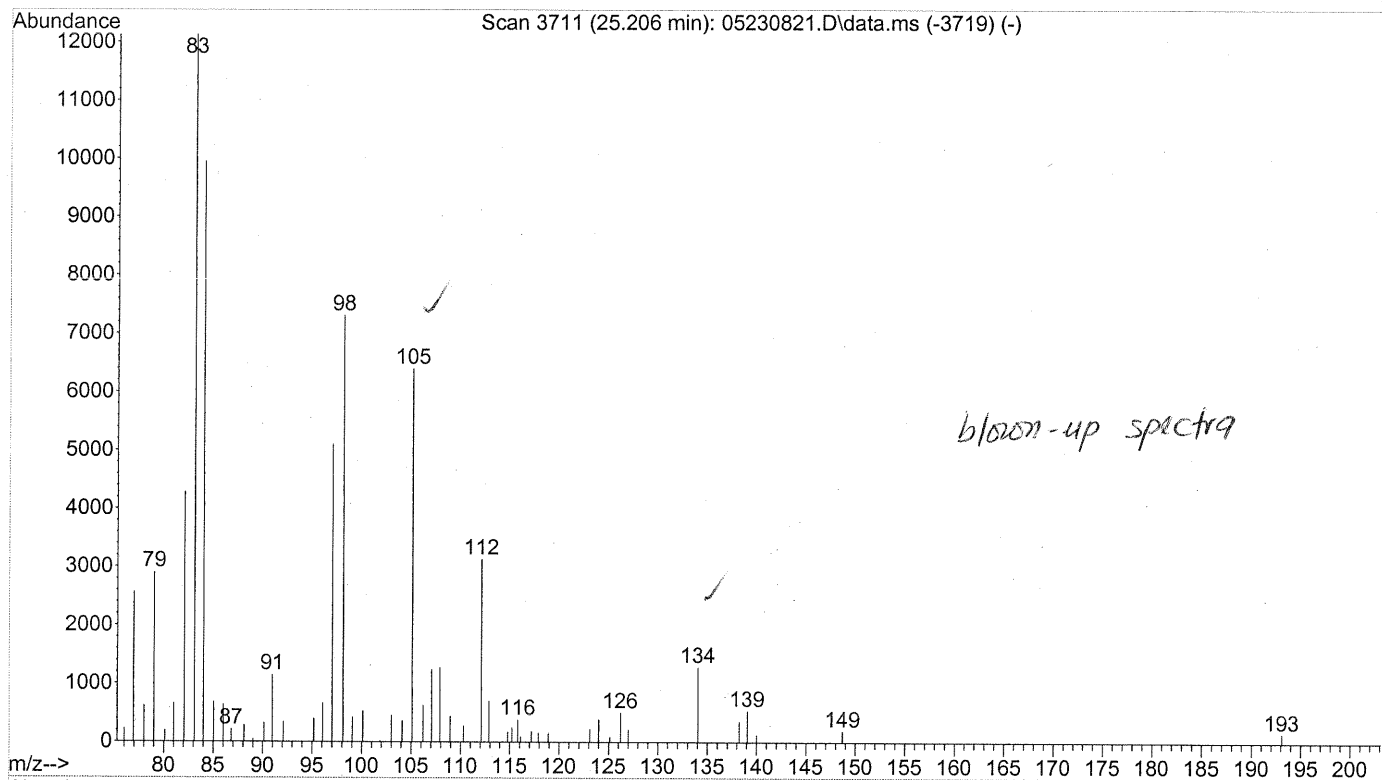
25.212min (+0.000) 0.09ng

response 12323

Ion	Exp%	Act%
105.10	100	100
134.10	20.90	18.46
91.10	14.60	26.65
0.00	0.00	0.00

see blown up spectra

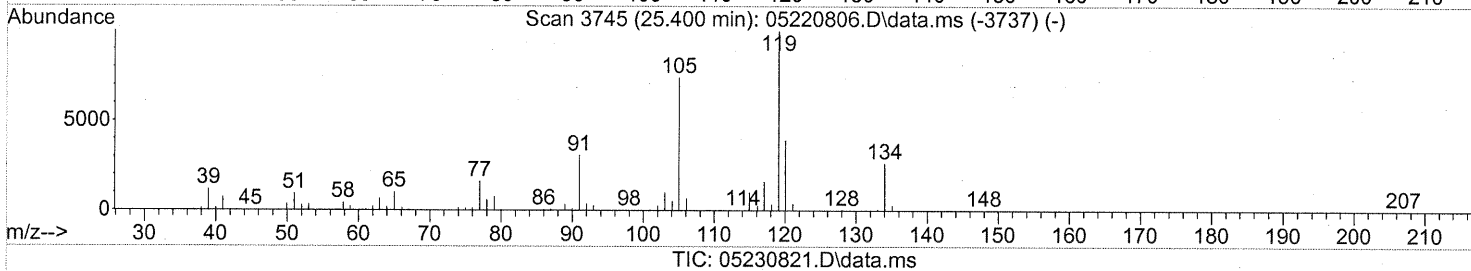
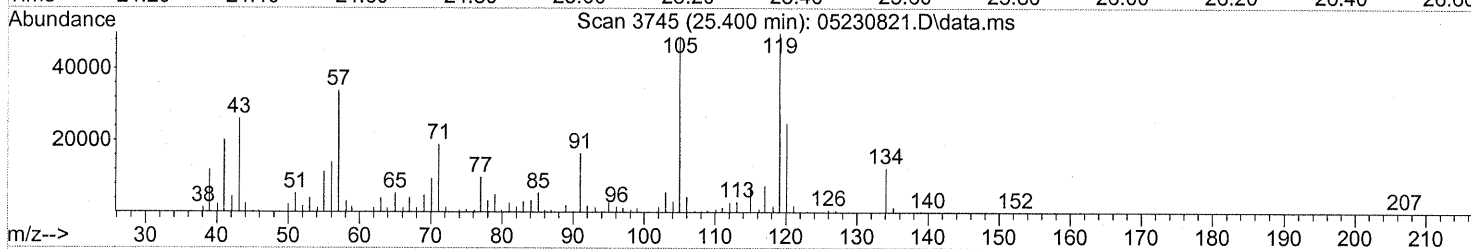
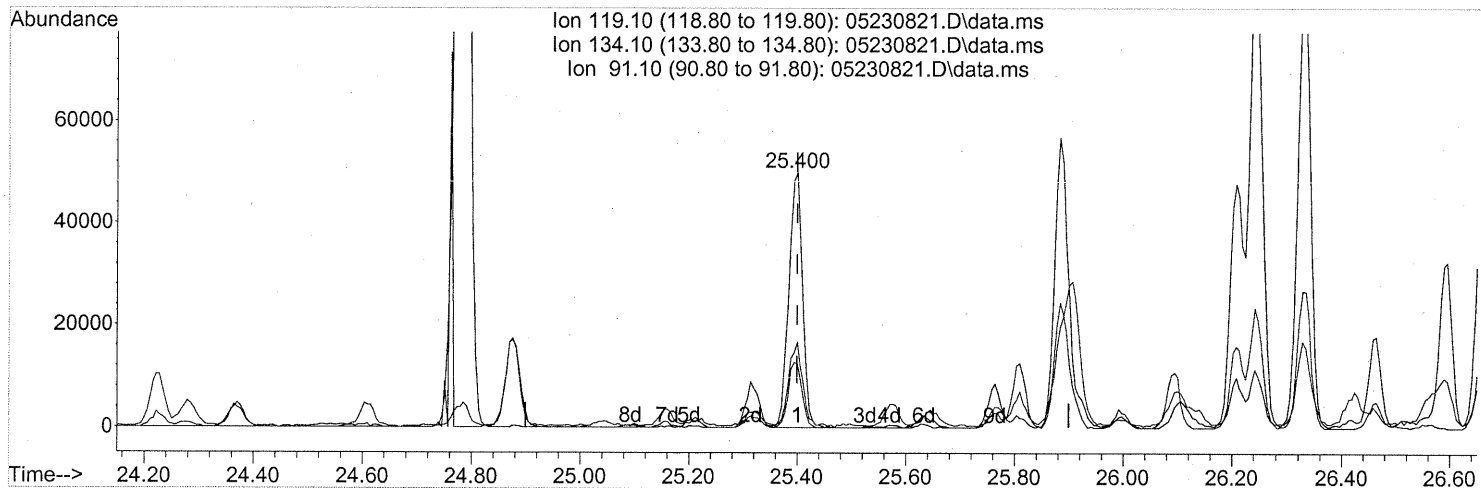
File :J:\MS13\DATA\2008_05\23\05230821.D
Operator : RTB
Acquired : 23 May 2008 23:43 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-004 (1000mL)
Misc Info : ENSR SG79B-05 (-2.8, 3.5)
Vial Number: 1



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (+0.000) 0.73ng

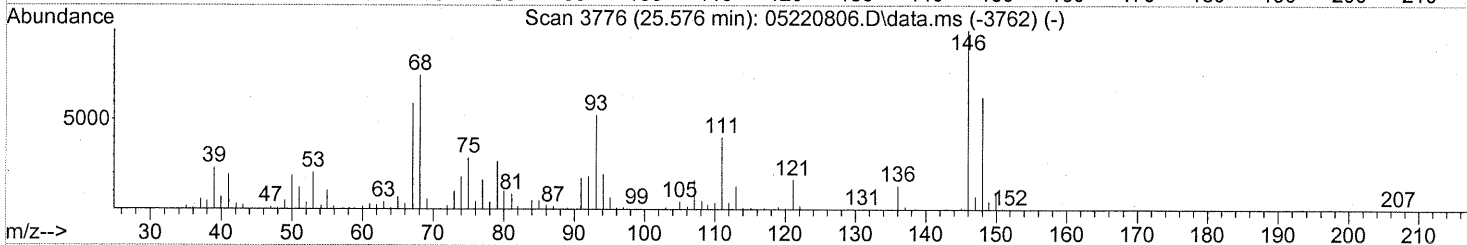
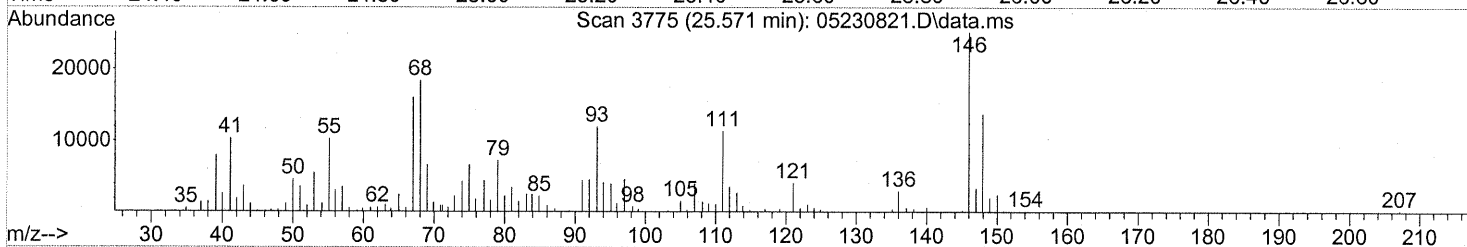
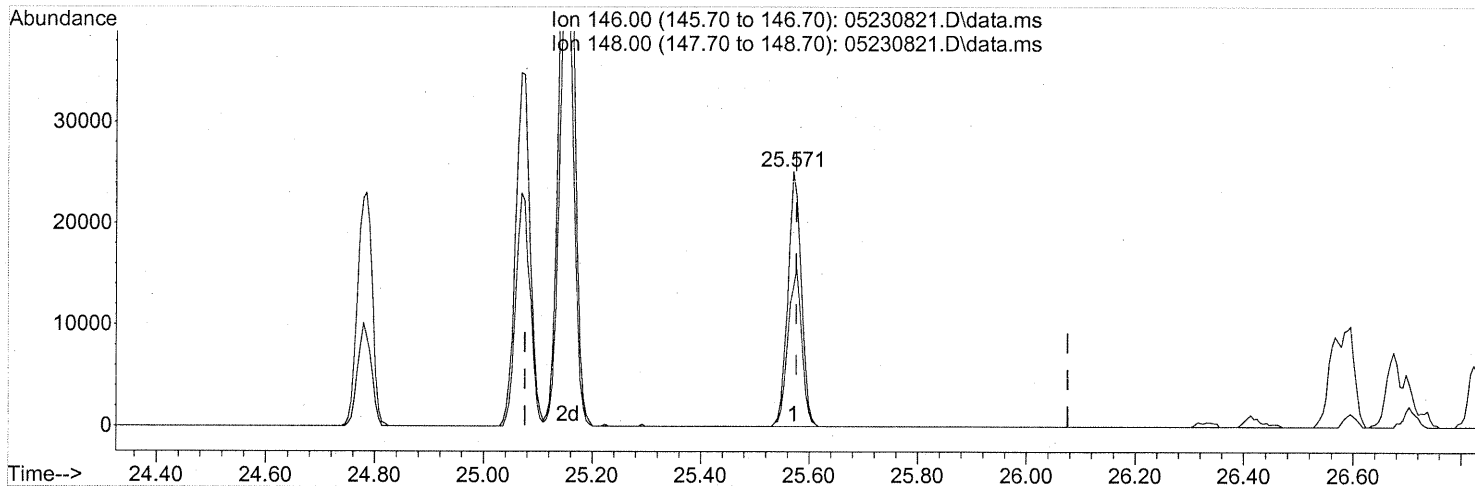
response 86648

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	25.48
91.10	27.10	35.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.571min (-0.006) 0.65ng

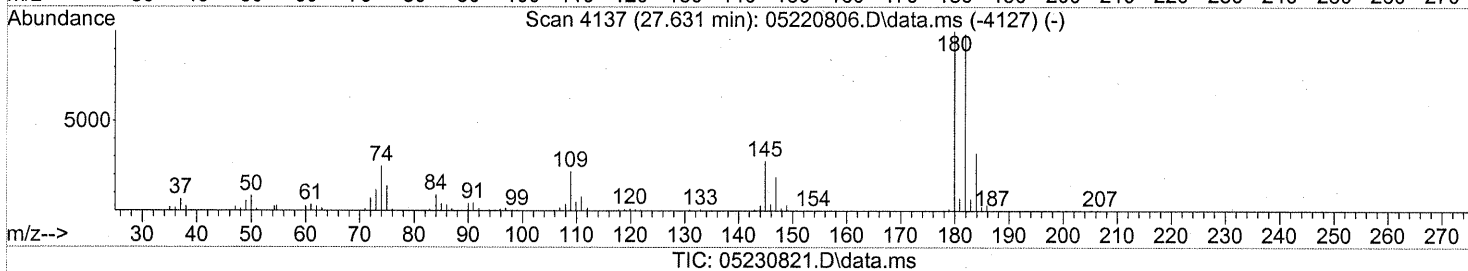
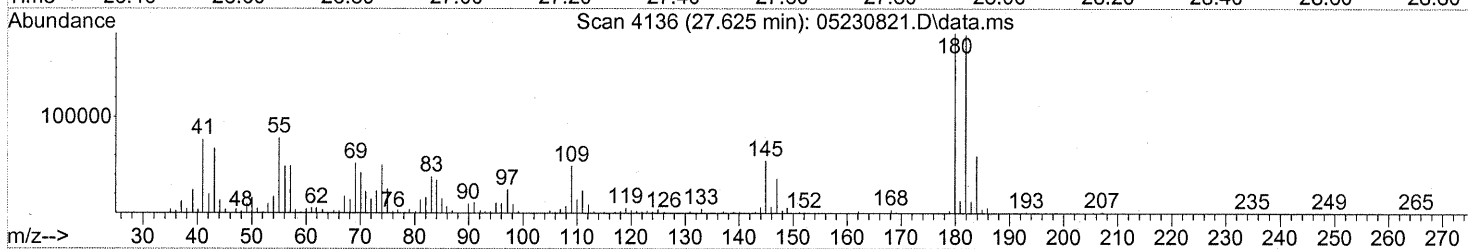
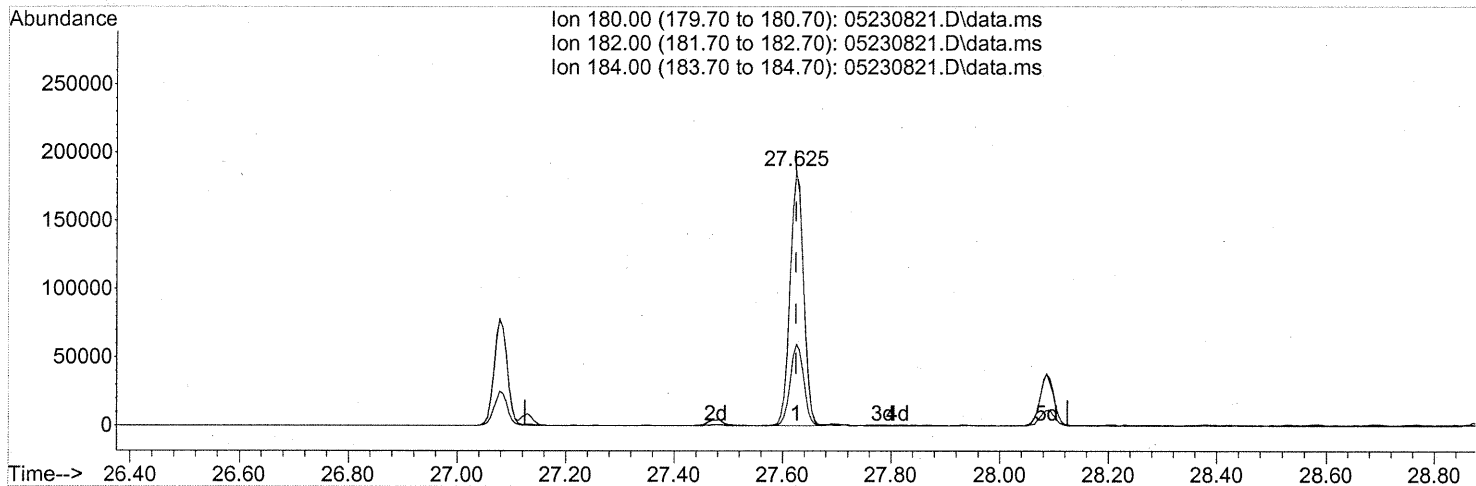
response 43403

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	63.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(94) 1,2,4-Trichlorobenzene (T)

27.625min (+0.000) 6.52ng

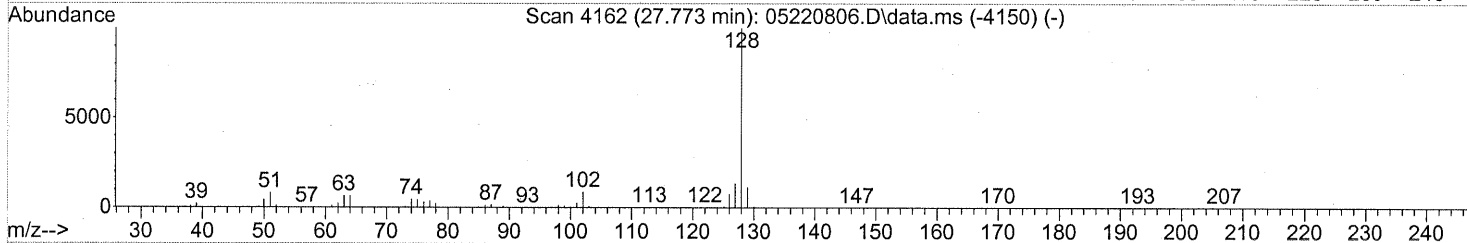
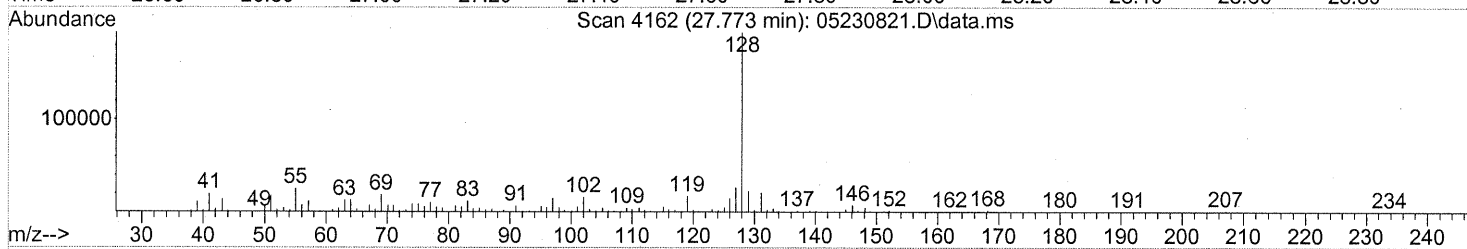
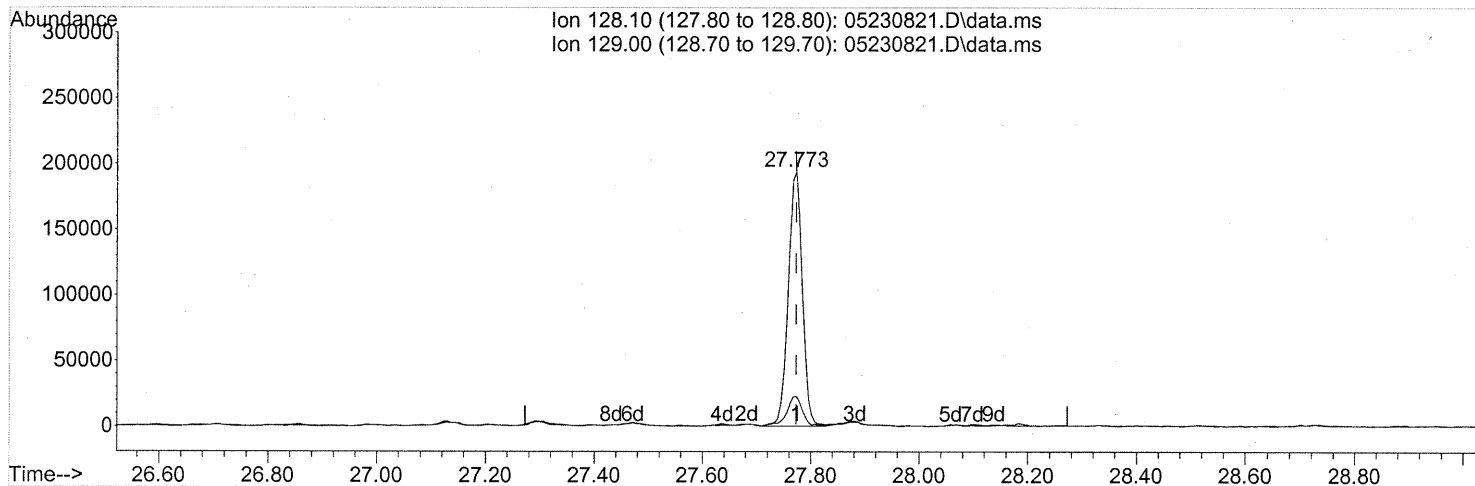
response 320735

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	100.68
184.00	30.30	32.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(95) Naphthalene (T)

27.773min (+0.000) 2.34ng

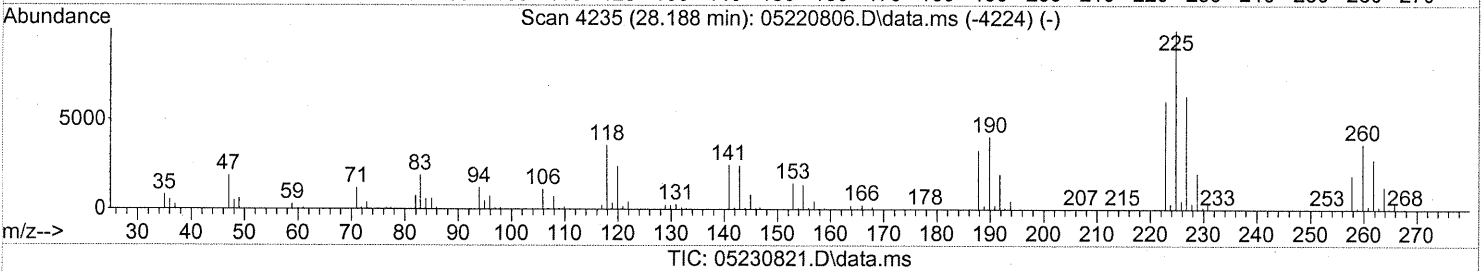
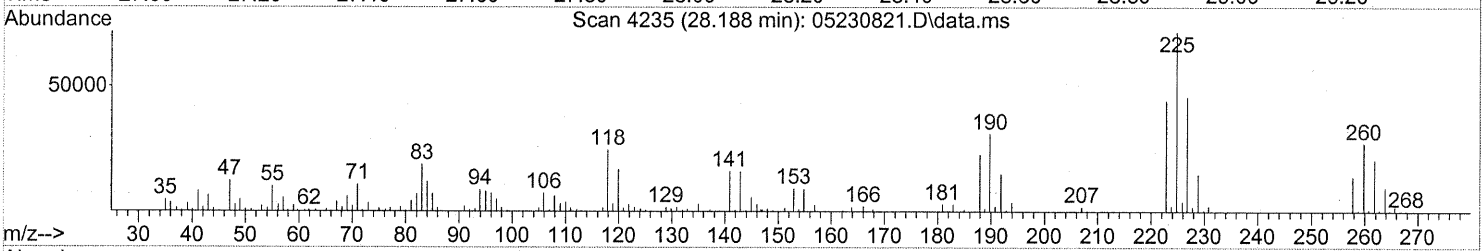
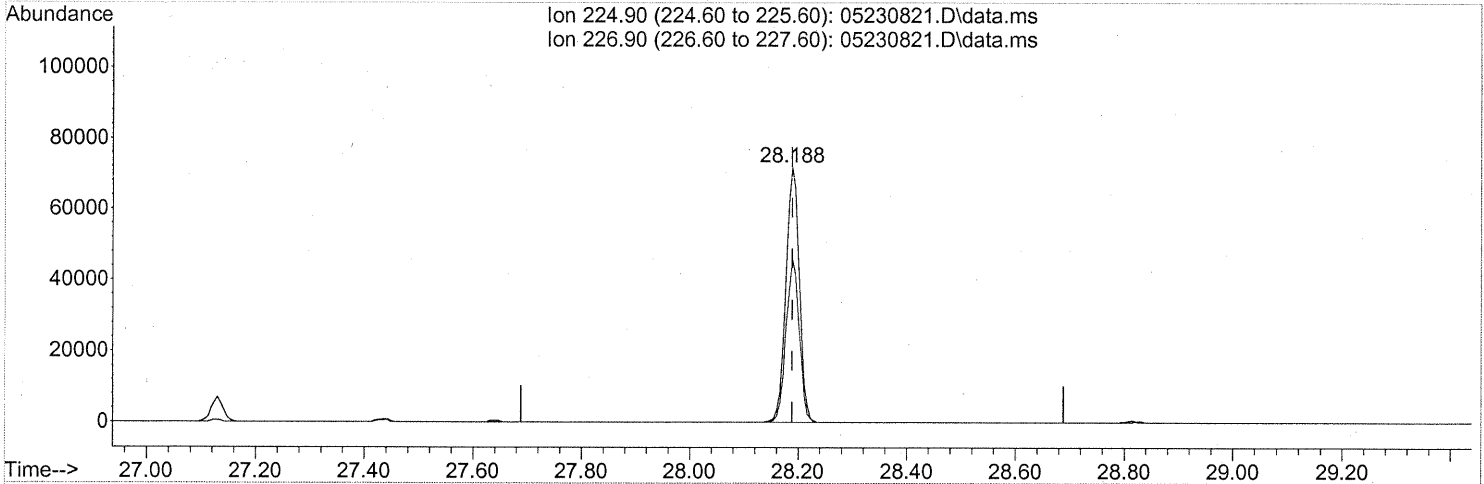
response 349605

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:18:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

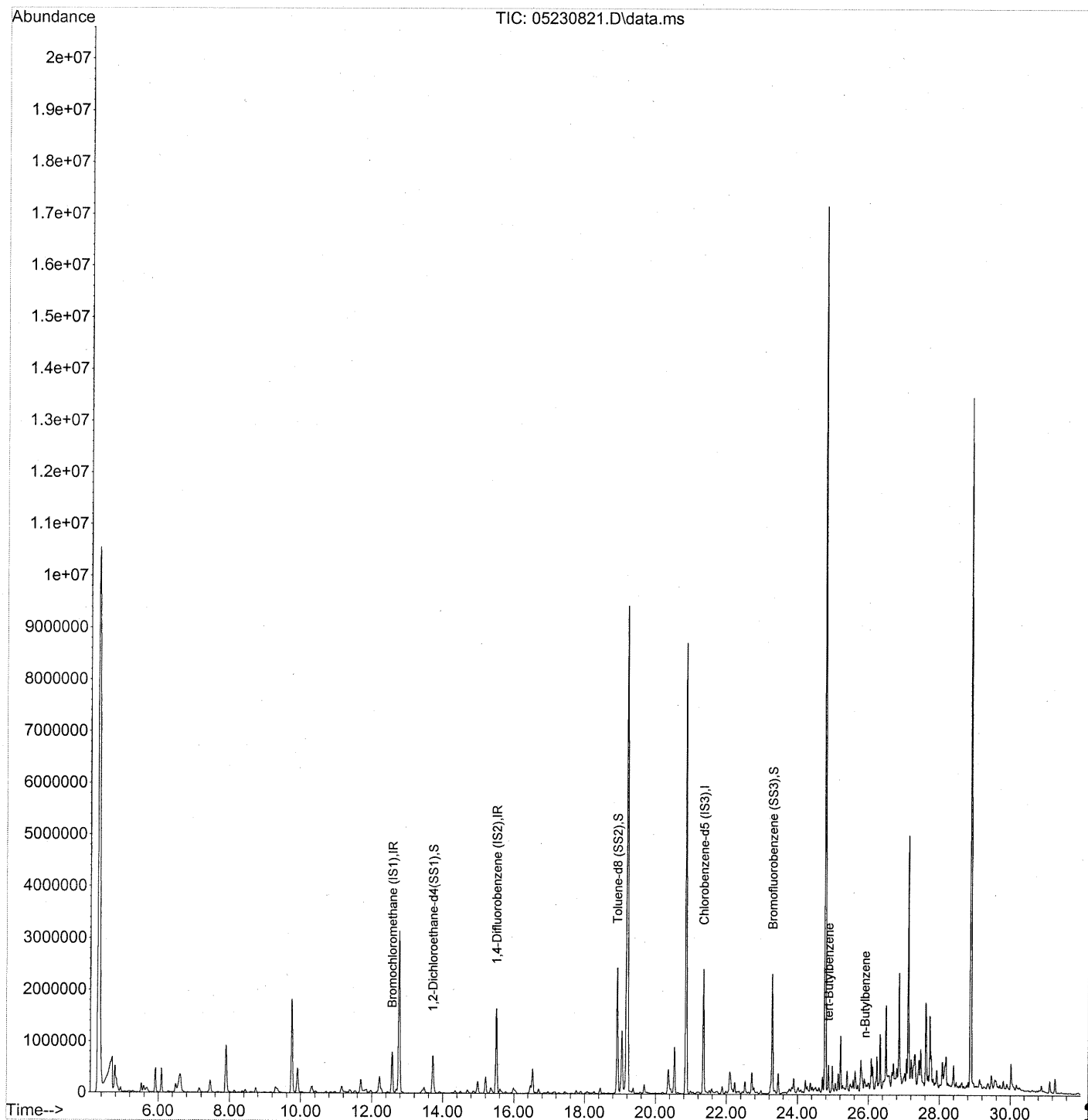
28.188min (+0.000) 3.81ng

response 124820

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	63.13
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 17:04:35 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 17:04:35 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

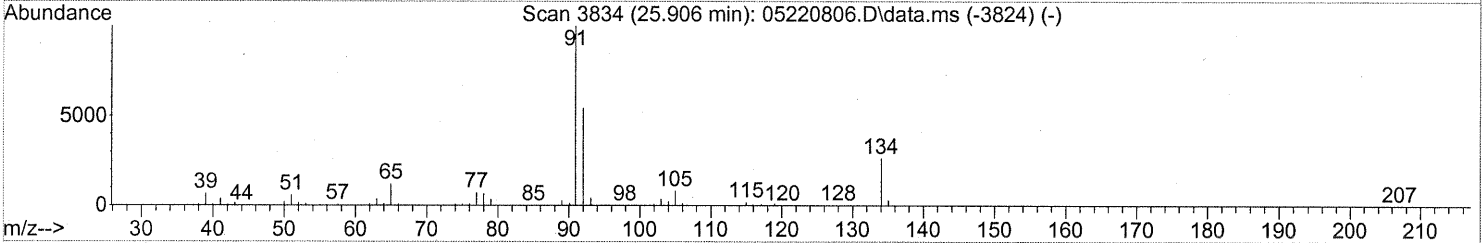
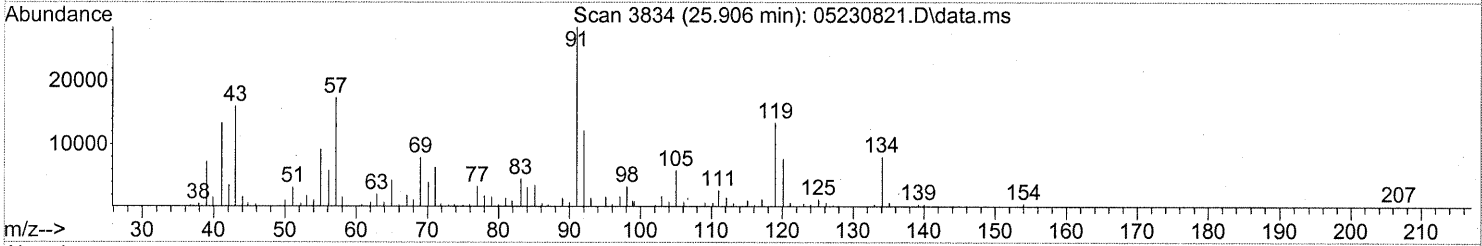
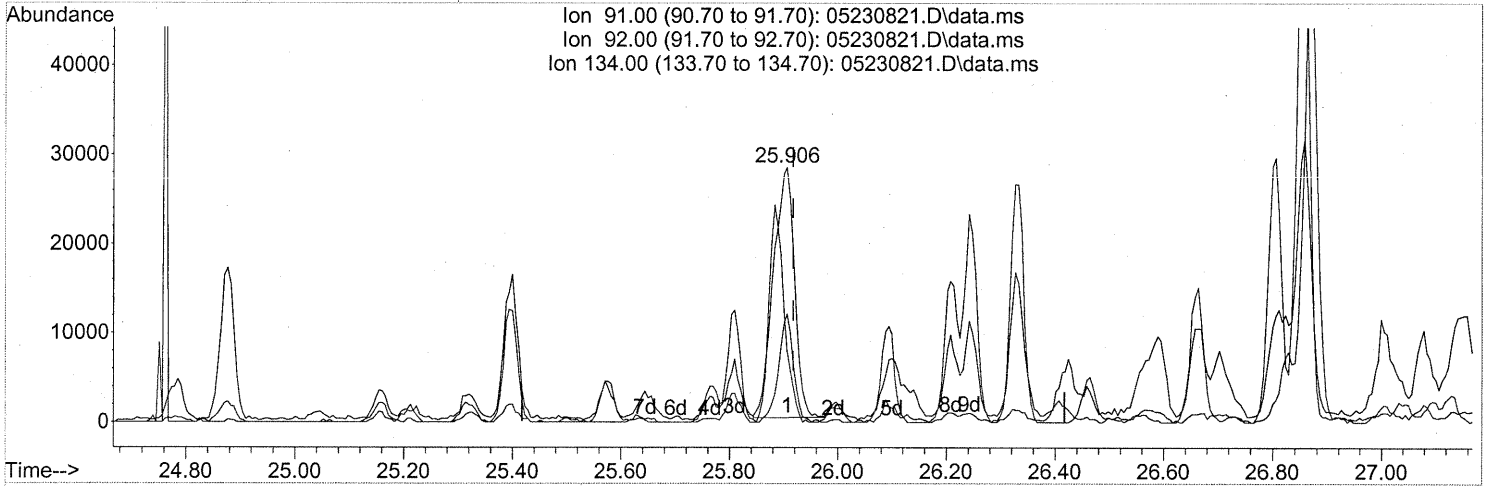
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	390666	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1900726	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	922168	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	712209	26.311	ng	-0.03
Spiked Amount	25.000					Recovery = 105.24%
5) Toluene-d8 (SS2)	18.92	98	2005308	24.213	ng	-0.02
Spiked Amount	25.000					Recovery = 96.84%
6) Bromofluorobenzene (SS3)	23.29	174	854151	25.362	ng	0.00
Spiked Amount	25.000					Recovery = 101.44%
Target Compounds						
7) tert-Butylbenzene	24.88	119	32208	0.297	ng	MR # 55
8) n-Butylbenzene	25.91	91	75544	0.631	ng	# 59

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230821.D
 Acq On : 23 May 2008 23:43
 Operator : RTB
 Sample : P0801483-004 (1000mL)
 Misc : ENSR SG79B-05 (-2.8, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 17:04:35 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



TIC: 05230821.D\data.ms

(8) n-Butylbenzene

25.906min (-0.011) 0.63ng

response 75544

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	30.48#
134.00	28.80	0.00#
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG80B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00887

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/24/08 & 5/26/08
 Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	11	1.1	0.45	2.1	0.21	J
74-87-3	Chloromethane	ND	2.1	1.1	ND	1.0	0.51	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	11	1.1	ND	1.5	0.15	
75-01-4	Vinyl Chloride	ND	2.1	1.1	ND	0.82	0.41	
74-83-9	Bromomethane	ND	2.1	1.1	ND	0.54	0.27	
75-00-3	Chloroethane	ND	2.1	1.1	ND	0.80	0.40	
64-17-5	Ethanol	8.8	110	1.1	4.7	56	0.56	J, B
67-64-1	Acetone	8.0	110	1.5	3.4	44	0.65	J, B
75-69-4	Trichlorofluoromethane	1.4	2.1	1.1	0.25	0.38	0.19	J
107-13-1	Acrylonitrile	ND	11	1.5	ND	4.9	0.68	
75-35-4	1,1-Dichloroethene	ND	2.1	1.1	ND	0.53	0.27	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	11	1.6	ND	3.5	0.51	
75-09-2	Methylene Chloride	2.1	11	1.1	0.59	3.0	0.30	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.1	1.1	ND	0.67	0.34	
76-13-1	Trichlorotrifluoroethane	ND	2.1	1.2	ND	0.27	0.15	
75-15-0	Carbon Disulfide	ND	11	2.5	ND	3.4	0.81	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	1.1	ND	0.53	0.27	
75-34-3	1,1-Dichloroethane	ND	2.1	1.1	ND	0.52	0.26	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	1.1	ND	0.58	0.29	
108-05-4	Vinyl Acetate	ND	110	3.4	ND	30	0.96	
78-93-3	2-Butanone (MEK)	4.2	11	1.1	1.4	3.6	0.36	J
156-59-2	cis-1,2-Dichloroethene	ND	2.1	1.1	ND	0.53	0.27	
108-20-3	Diisopropyl Ether	ND	11	1.2	ND	2.5	0.30	
67-66-3	Chloroform	4,400	2.1	1.2	900	0.43	0.25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR

Client Sample ID: SG80B-05

Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

CAS Sample ID: P0801483-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Rusty Bravo/Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: SC00887

Date Collected: 5/16/08

Date Received: 5/20/08

Date Analyzed: 5/24/08 & 5/26/08

Volume(s) Analyzed: 0.075 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	11	1.1	ND	2.5	0.26	
107-06-2	1,2-Dichloroethane	ND	2.1	1.1	ND	0.52	0.26	
71-55-6	1,1,1-Trichloroethane	ND	2.1	1.1	ND	0.39	0.19	
71-43-2	Benzene	4.7	2.1	1.1	1.5	0.66	0.33	
56-23-5	Carbon Tetrachloride	12	2.1	1.1	1.9	0.34	0.17	
994-05-8	tert-Amyl Methyl Ether	ND	11	1.1	ND	2.5	0.25	
78-87-5	1,2-Dichloropropane	ND	2.1	1.1	ND	0.46	0.23	
75-27-4	Bromodichloromethane	4.1	2.1	1.1	0.62	0.31	0.16	
79-01-6	Trichloroethene	5.2	2.1	1.1	0.97	0.39	0.20	
123-91-1	1,4-Dioxane	ND	11	1.3	ND	2.9	0.36	
80-62-6	Methyl Methacrylate	ND	11	1.6	ND	2.6	0.39	
142-82-5	n-Heptane	ND	11	1.3	ND	2.6	0.33	
10061-01-5	cis-1,3-Dichloropropene	ND	11	1.1	ND	2.3	0.24	
108-10-1	4-Methyl-2-pentanone	ND	11	1.2	ND	2.6	0.29	
10061-02-6	trans-1,3-Dichloropropene	ND	11	1.3	ND	2.3	0.29	
79-00-5	1,1,2-Trichloroethane	ND	2.1	1.1	ND	0.39	0.19	
108-88-3	Toluene	8.7	11	1.1	2.3	2.8	0.28	J
591-78-6	2-Hexanone	ND	11	1.6	ND	2.6	0.39	
124-48-1	Dibromochloromethane	ND	2.1	1.4	ND	0.25	0.17	
106-93-4	1,2-Dibromoethane	ND	2.1	1.1	ND	0.27	0.15	
111-65-9	n-Octane	ND	11	1.1	ND	2.3	0.23	
127-18-4	Tetrachloroethene	32	2.1	1.1	4.7	0.31	0.16	
108-90-7	Chlorobenzene	1.1	2.1	1.1	0.25	0.46	0.23	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG80B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00887

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/24/08 & 5/26/08
 Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	11	1.3	ND	2.4	0.30	
179601-23-1	m,p-Xylenes	3.0	11	2.7	0.69	2.4	0.63	J
75-25-2	Bromoform	ND	11	1.6	ND	1.0	0.15	
100-42-5	Styrene	ND	11	1.6	ND	2.5	0.38	
95-47-6	o-Xylene	1.6	11	1.3	0.38	2.4	0.31	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	1.3	ND	0.31	0.20	
98-82-8	Cumene	ND	11	1.2	ND	2.1	0.24	
103-65-1	n-Propylbenzene	ND	11	1.1	ND	2.1	0.22	
622-96-8	4-Ethyltoluene	ND	11	1.2	ND	2.1	0.24	
108-67-8	1,3,5-Trimethylbenzene	ND	11	1.3	ND	2.1	0.26	
98-83-9	alpha-Methylstyrene	ND	11	1.5	ND	2.2	0.32	
95-63-6	1,2,4-Trimethylbenzene	ND	11	1.5	ND	2.1	0.30	
100-44-7	Benzyl Chloride	ND	2.1	1.8	ND	0.41	0.35	
541-73-1	1,3-Dichlorobenzene	12	2.1	1.3	2.0	0.35	0.22	
106-46-7	1,4-Dichlorobenzene	7.4	2.1	1.2	1.2	0.35	0.20	
135-98-8	sec-Butylbenzene	ND	11	1.2	ND	1.9	0.22	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	11	1.4	ND	1.9	0.25	
95-50-1	1,2-Dichlorobenzene	8.4	2.1	1.4	1.4	0.35	0.23	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.6	ND	1.1	0.17	
120-82-1	1,2,4-Trichlorobenzene	6.2	2.1	1.6	0.83	0.28	0.22	
91-20-3	Naphthalene	2.4	4.2	1.6	0.45	0.80	0.30	J, B
87-68-3	Hexachlorobutadiene	230	2.1	1.9	21	0.20	0.18	
98-06-6	tert-Butylbenzene	ND	4.2	1.1	ND	0.77	0.19	
104-51-8	n-Butylbenzene	ND	4.2	1.1	ND	0.77	0.19	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

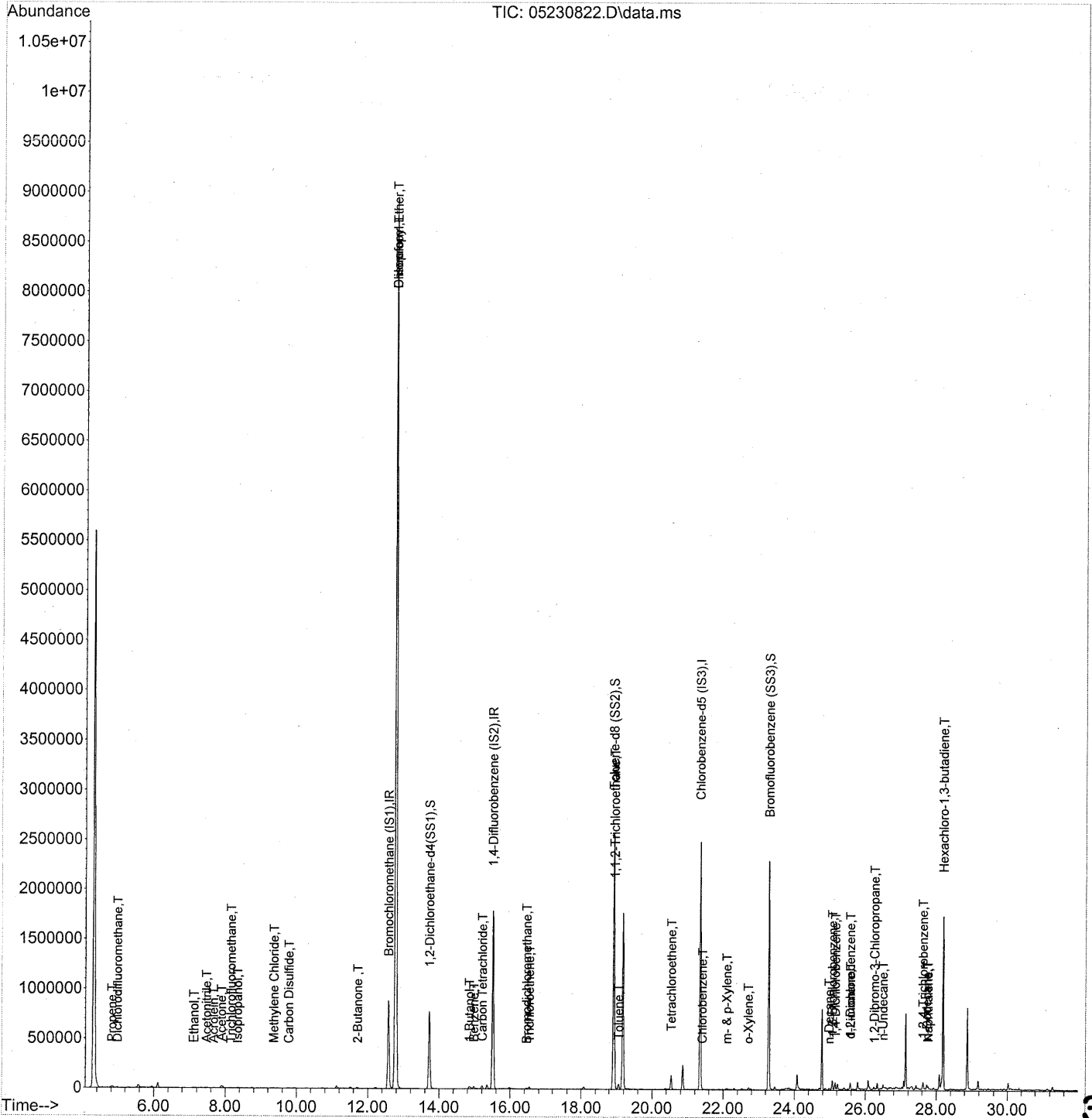
B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

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Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 11:05:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 11:05:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	455877	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2060083	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	959920	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	789483	24.993	ng	0.00
Spiked Amount	25.000		Recovery	=	99.96%	
57) Toluene-d8 (SS2)	18.92	98	2174415	25.222	ng	0.00
Spiked Amount	25.000		Recovery	=	100.88%	
73) Bromofluorobenzene (SS3)	23.29	174	874687	24.950	ng	0.00
Spiked Amount	25.000		Recovery	=	99.80%	

Target Compounds

						Qvalue
2) Propene	4.82	42	5857	0.163	ng	# 74
3) Dichlorodifluoromethane	4.98	85	7038	0.106	ng	91
4) Chloromethane	5.33	50	594	N.D.	✓	
5) Freon 114	5.56	135	52	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.00	54	71	N.D.	✓	
8) Bromomethane	6.49	94	190	N.D.	✓	
9) Chloroethane	6.84	64	788	N.D.	✓	
10) Ethanol	7.12	45	10015m	0.418	ng	
11) Acetonitrile	7.47	41	7232	0.104	ng	96
12) Acrolein	7.67	56	1295	0.076	ng	81
13) Acetone	7.89	58	9295m	0.379	ng	
14) Trichlorofluoromethane	8.16	101	3756	0.066	ng	# 54
15) Isopropanol	8.34	45	5149	0.066	ng	83
16) Acrylonitrile	8.61	53	54	N.D.	✓	
17) 1,1-Dichloroethene	9.16	96	1001	N.D.	✓	
18) tert-Butanol	9.29	59	2124	N.D.	✓	
19) Methylene Chloride	9.36	84	2675	0.098	ng	# 65
20) Allyl Chloride	9.46	41	470	N.D.	✓	
21) Trichlorotrifluoroethane	9.82	151	598	N.D.	✓	
22) Carbon Disulfide	9.78	76	5397	0.052	ng	<MDL 83
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
24) 1,1-Dichloroethane	11.10	63	556	N.D.	✓	
25) Methyl tert-Butyl Ether	11.13	73	55	N.D.	✓	
26) Vinyl Acetate	0.00	86	0	N.D.	✓	
27) 2-Butanone	11.71	72	3533	0.197	ng	98
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	995000	45.335	ng	MR # 1
30) Ethyl Acetate	12.78	61	106	N.D.		
31) n-Hexane	12.70	57	1358	N.D.		

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 11:05:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	9438181	227.041	ng	100
34) Tetrahydrofuran	13.39	72	181	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.90	62	67	N.D.	✓	
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.	✓	
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.85	56	24459	0.864	ng	96
41) Benzene	14.98	78	24202	0.224	ng	98
42) Carbon Tetrachloride	15.21	117	23670	0.570	ng	99
43) Cyclohexane	15.40	84	833	N.D.	✓	
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	16.20	63	107	N.D.	✓	
46) Bromodichloromethane	16.46	83	7152	0.196	ng	97
47) Trichloroethene	16.53	130	8189	0.247	ng	98
48) 1,4-Dioxane	16.55	88	71	N.D.	✓	
49) Isooctane	16.62	57	1922	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.	✓	
51) n-Heptane	16.98	71	95	N.D.	✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.	✓	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	191072	7.168	ng NR #	8
58) Toluene	19.06	91	48368	0.413	ng	96
59) 2-Hexanone	19.38	43	1828	N.D.	✓	
60) Dibromochloromethane	19.59	129	1412	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.20	43	679	N.D.		
63) n-Octane	20.34	57	220	N.D.	✓	
64) Tetrachloroethene	20.54	166	52414	1.512	ng	98
65) Chlorobenzene	21.41	112	4267	0.054	ng	100
66) Ethylbenzene	21.89	91	5343	N.D.	✓	
67) m- & p-Xylene	22.10	91	12805	0.142	ng	91
68) Bromoform	22.21	173	76	N.D.	✓	
69) Styrene	22.59	104	707	N.D.	✓	
70) o-Xylene	22.71	91	7531	0.078	ng	83
71) n-Nonane	22.98	43	1114	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.71	83	322	N.D.	✓	
74) Cumene	23.46	105	886	N.D.	✓	
75) alpha-Pinene	23.96	93	628	N.D.		
76) n-Propylbenzene	24.10	91	3469	N.D.	✓	
77) 3-Ethyltoluene	24.23	105	4699	N.D.		
78) 4-Ethyltoluene	24.28	105	3744	N.D.	✓	
79) 1,3,5-Trimethylbenzene	24.36	105	1911	N.D.	✓	

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 11:05:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

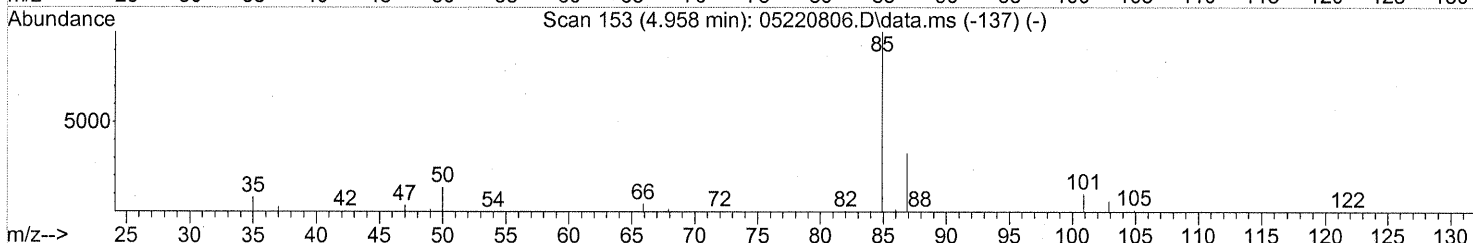
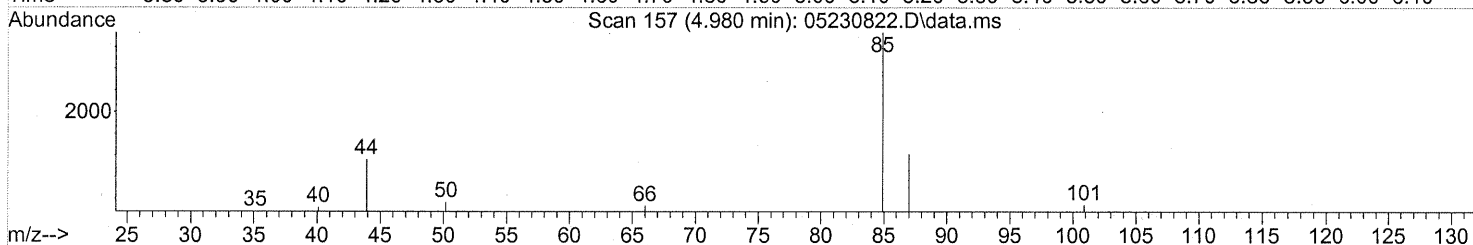
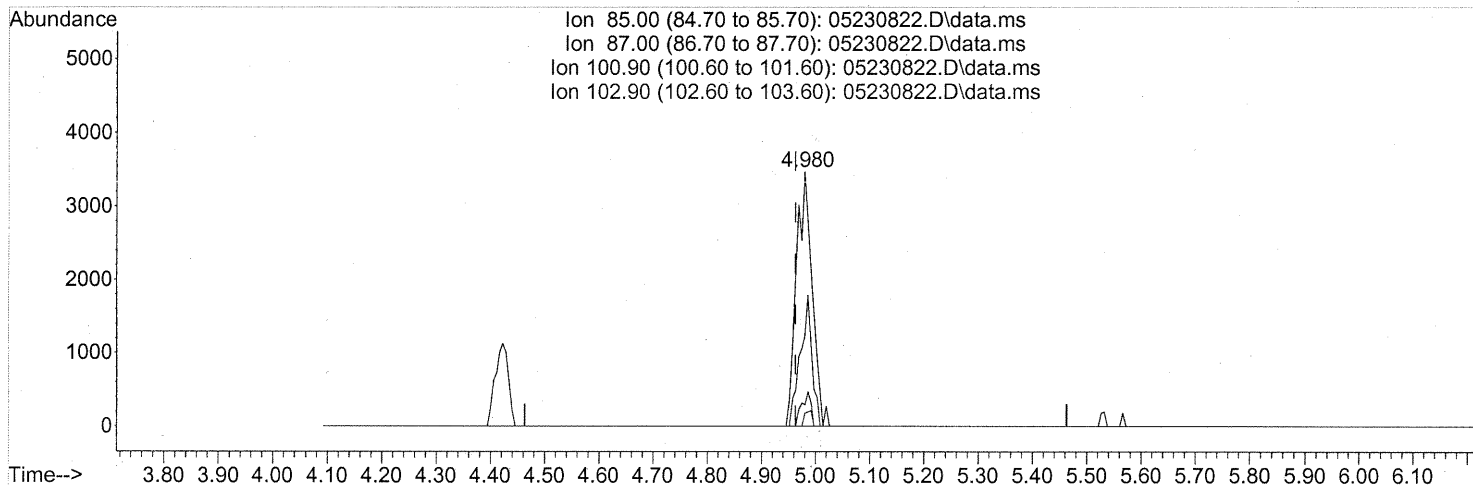
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	876	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	3295	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	4398	N.D.	✓	
83) n-Decane	24.98	57	6397	0.099	ng #	72
84) Benzyl Chloride	25.04	91	188	N.D.	✓	
85) 1,3-Dichlorobenzene	25.07	146	42356	0.574	ng	99
86) 1,4-Dichlorobenzene	25.16	146	25218	0.353	ng	98
87) sec-Butylbenzene	25.21	105	3879	N.D.	✓	
88) p-Isopropyltoluene	25.40	119	2854	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.41	105	4028	N.D.		
90) 1,2-Dichlorobenzene	25.57	146	27913	0.399	ng	99
91) d-Limonene	25.58	68	2489	0.053	ng	90
92) 1,2-Dibromo-3-Chloropr...	26.25	157	1231	0.057	ng #	39
93) n-Undecane	26.50	57	17085	0.252	ng #	63
94) 1,2,4-Trichlorobenzene	27.62	180	15002	0.293	ng	95
95) Naphthalene	27.77	128	17567	0.113	ng	96
96) n-Dodecane	27.73	57	13891	0.206	ng	75
97) Hexachloro-1,3-butadiene	28.19	225	369928	10.851	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

(3) Dichlorodifluoromethane (T)

4.980min (+0.017) 0.11ng

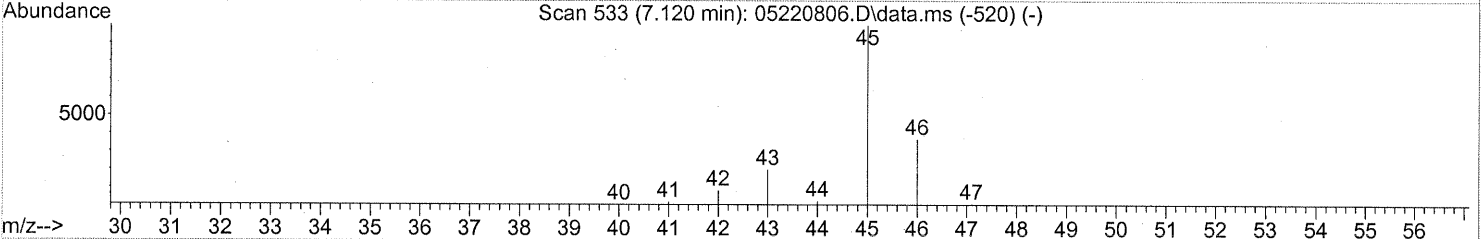
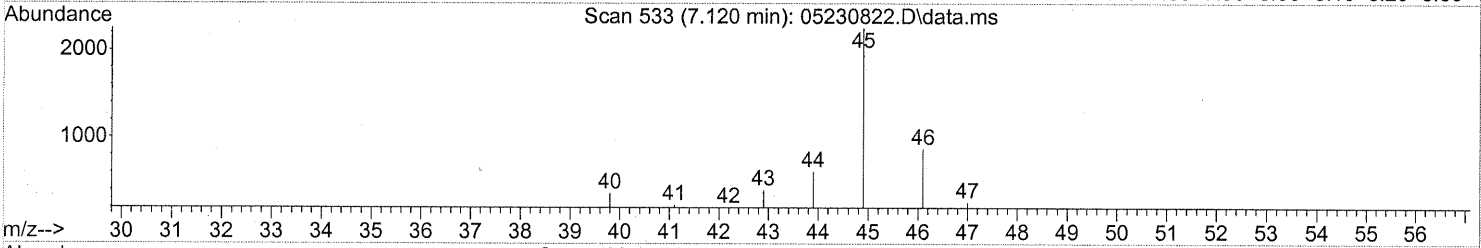
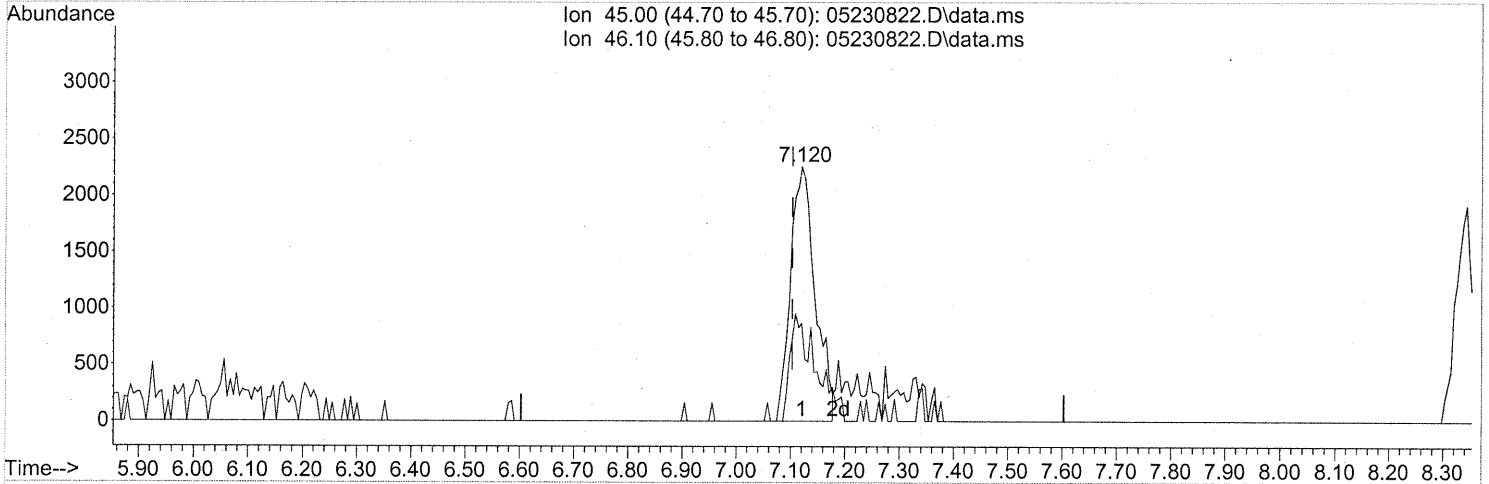
response 7038

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	38.05
100.90	9.30	7.76
102.90	6.00	2.77

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

(10) Ethanol (T)

7.120min (+0.017) 0.30ng

response 7130

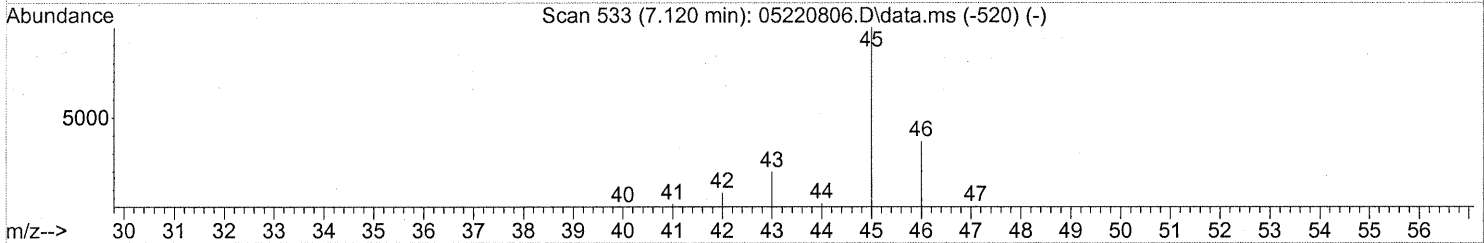
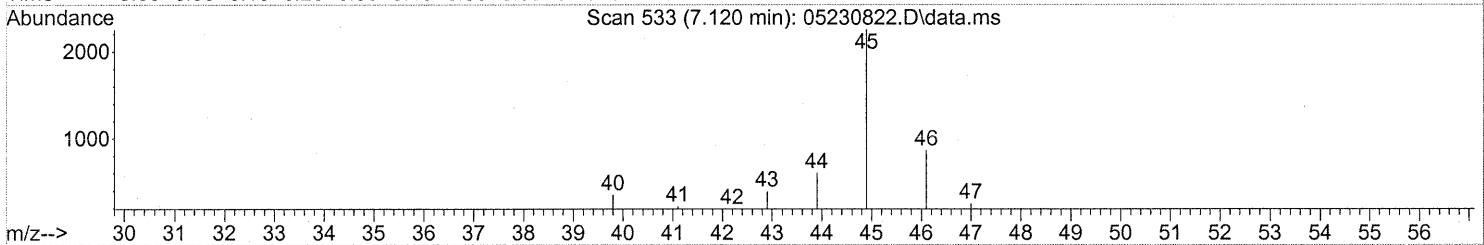
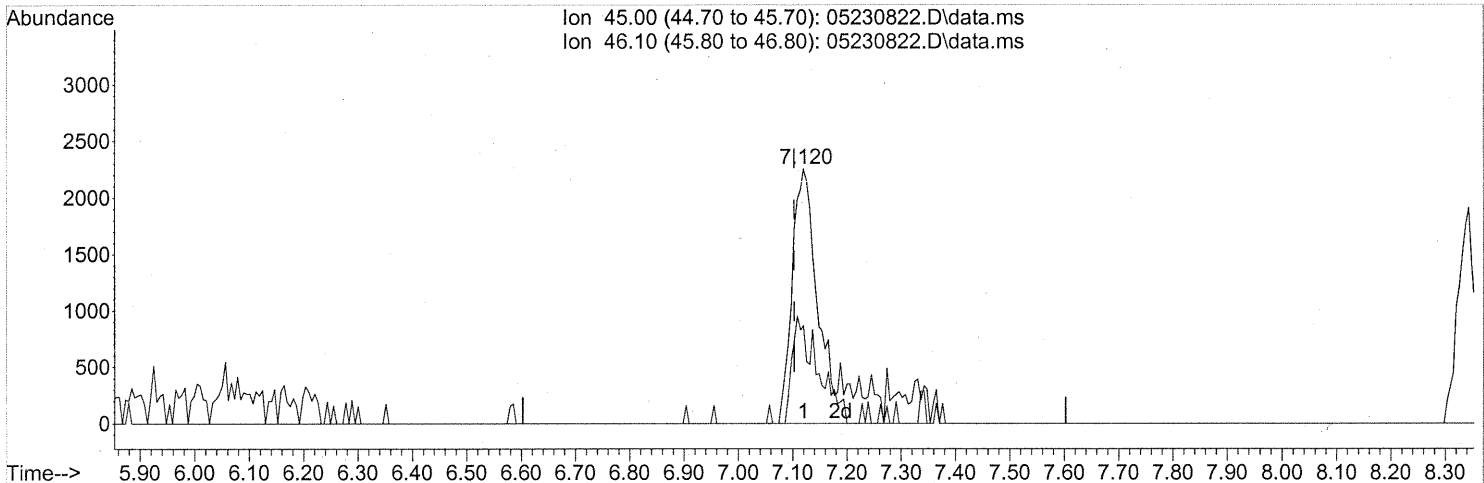
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	43.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.120min (+0.017) 0.42ng m

response 10015

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	31.22
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

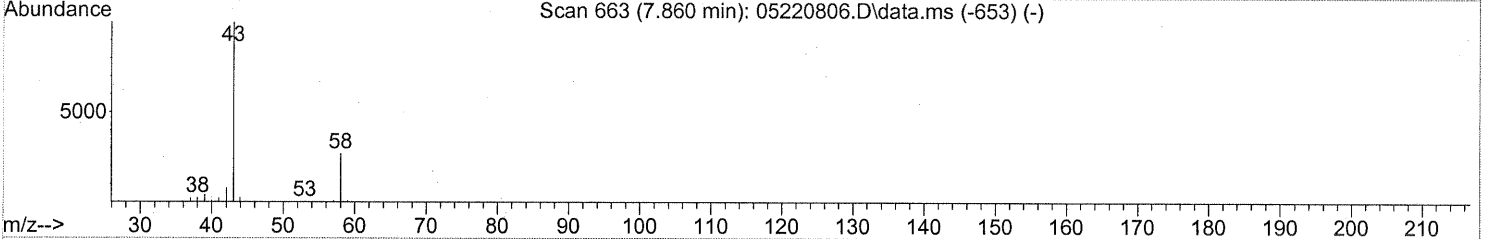
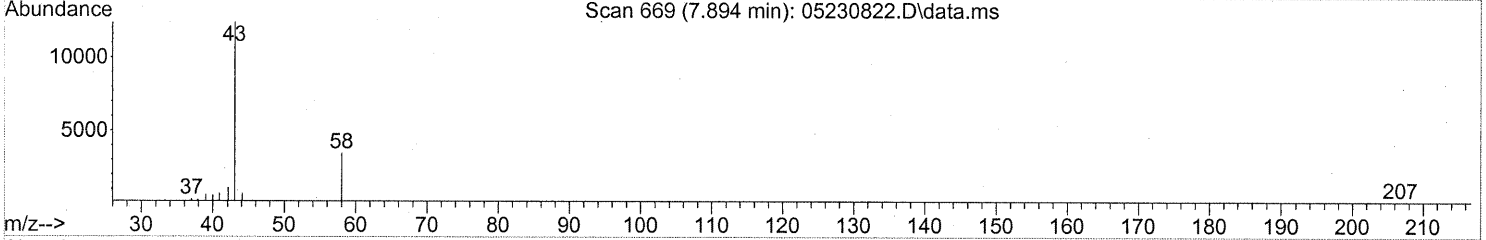
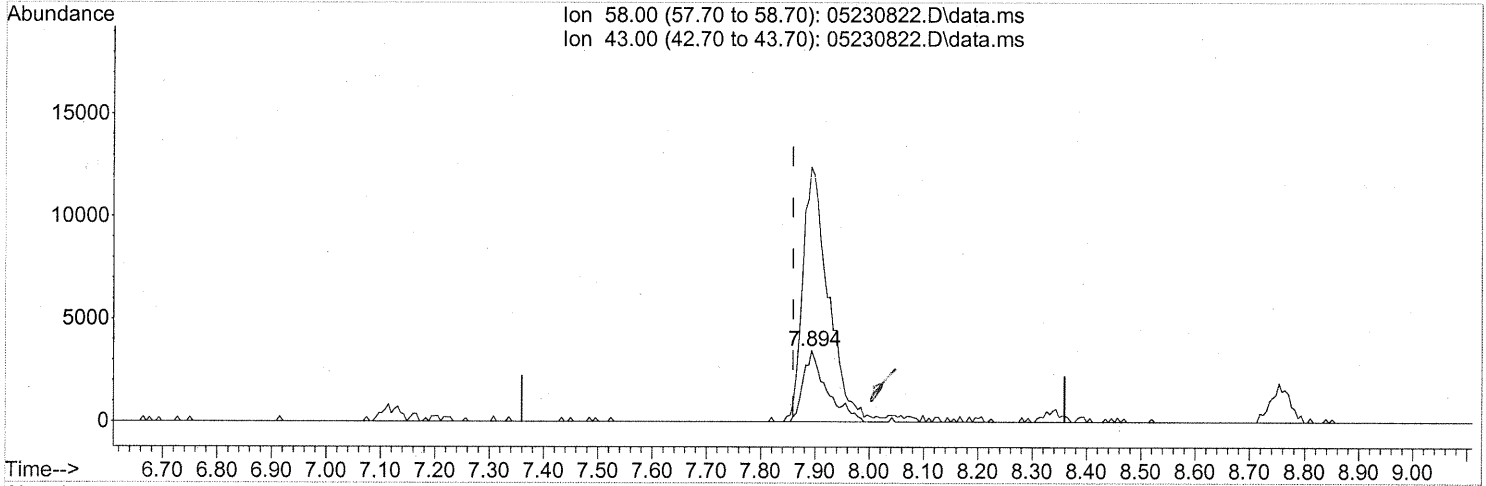
RT 5/30/08

P06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

(13) Acetone (T)
 7.894min (+0.034) 0.43ng
 response 10460

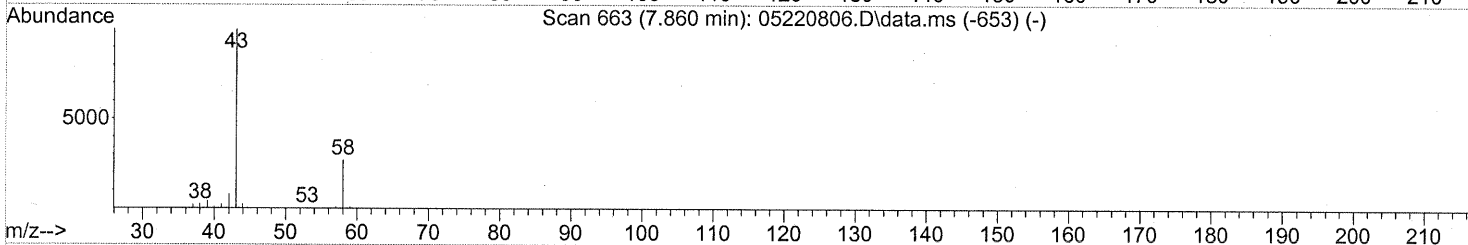
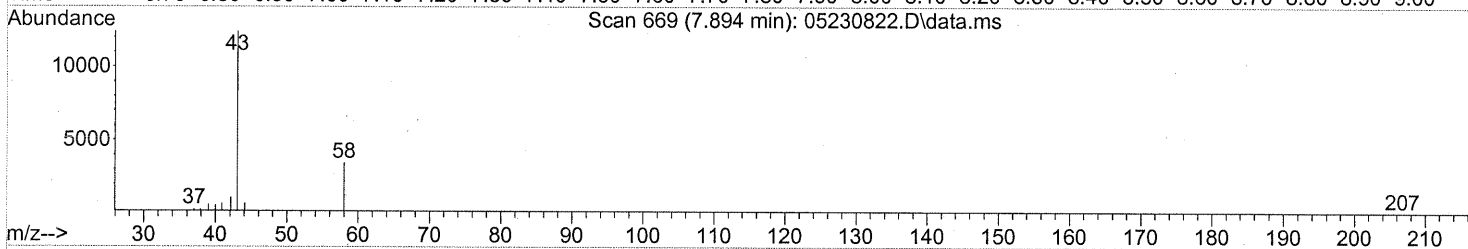
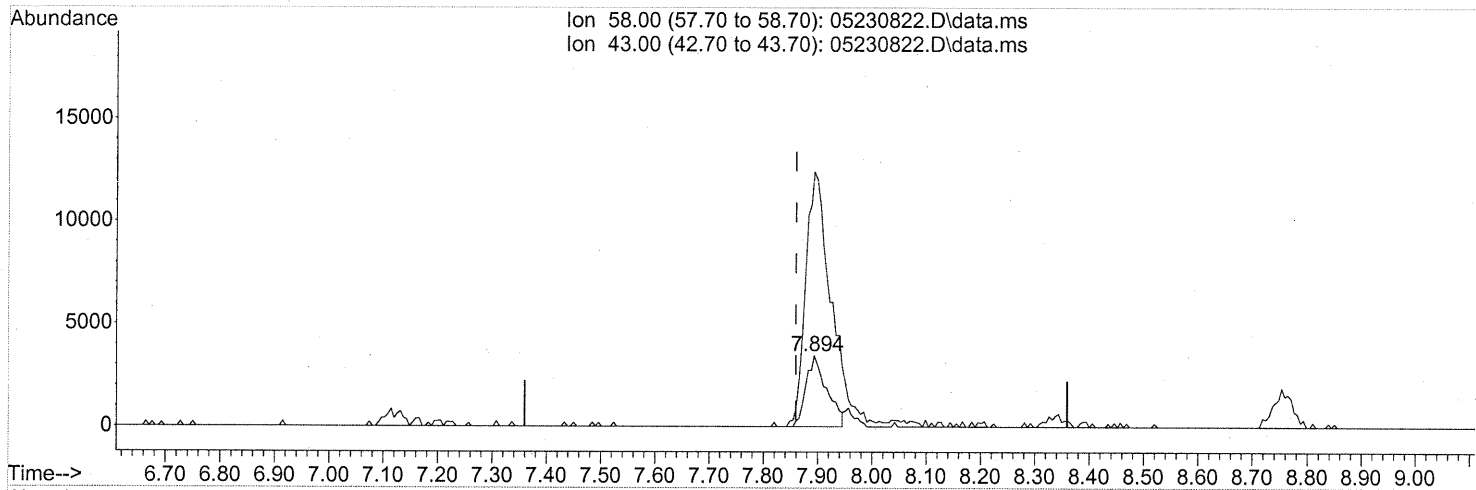
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	394.55#
0.00	0.00	0.00
0.00	0.00	0.00

shoulder peak

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

(13) Acetone (T)

7.894min (+0.034) 0.38ng m

response 9295

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	444.00#
0.00	0.00	0.00
0.00	0.00	0.00

10% shoulder

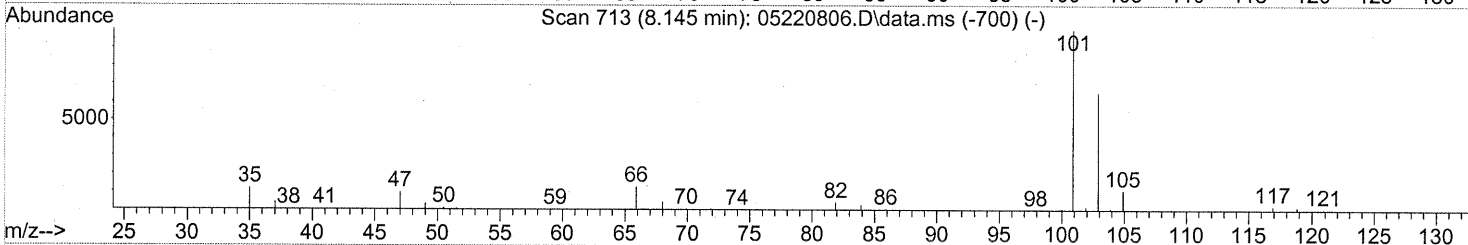
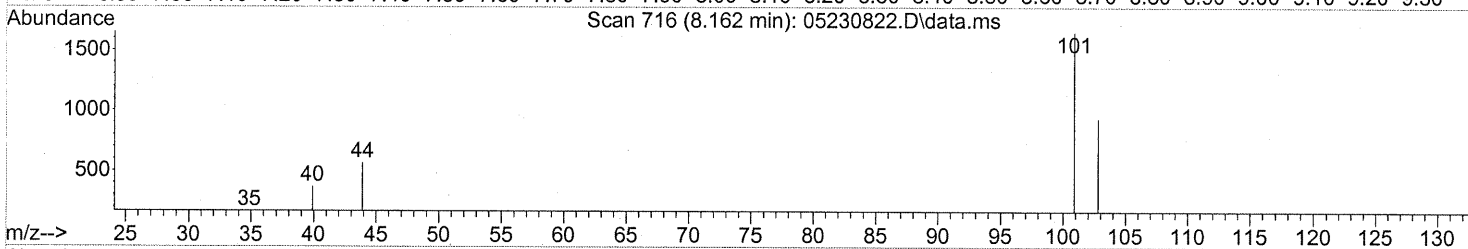
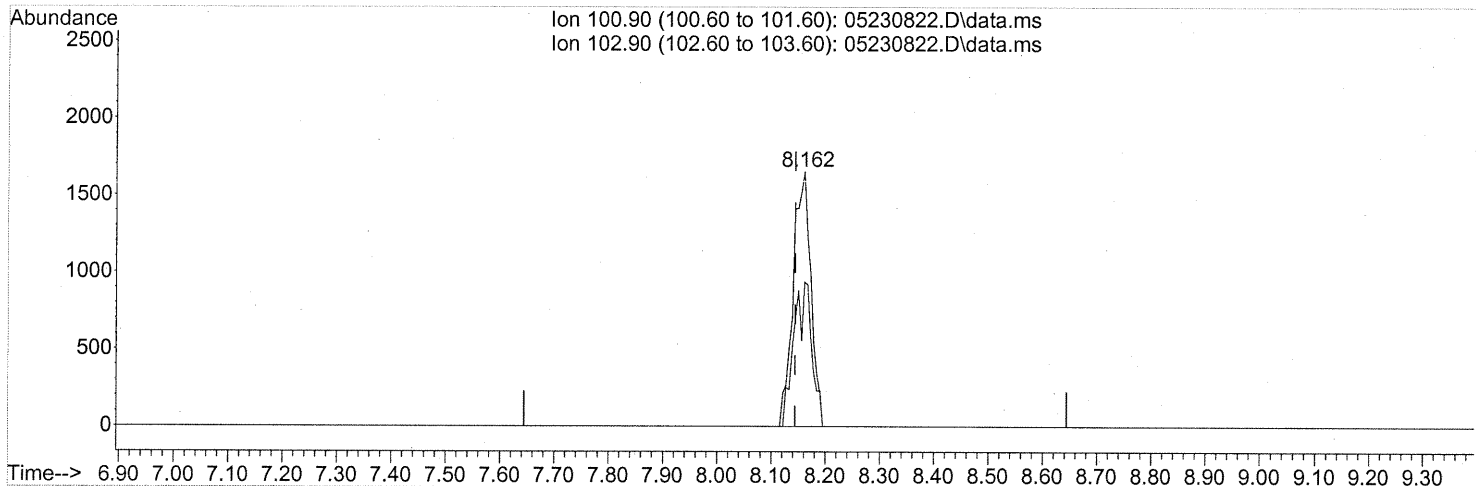
RTA 5/30/08

P 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

(14) Trichlorofluoromethane (T)

8.162min (+0.017) 0.07ng

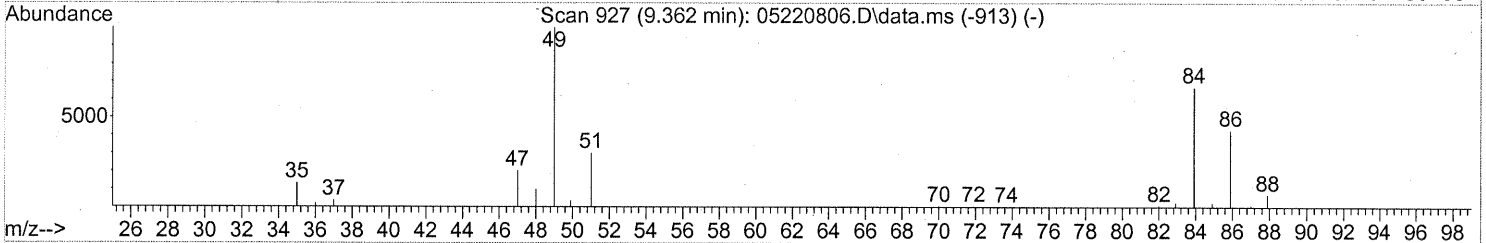
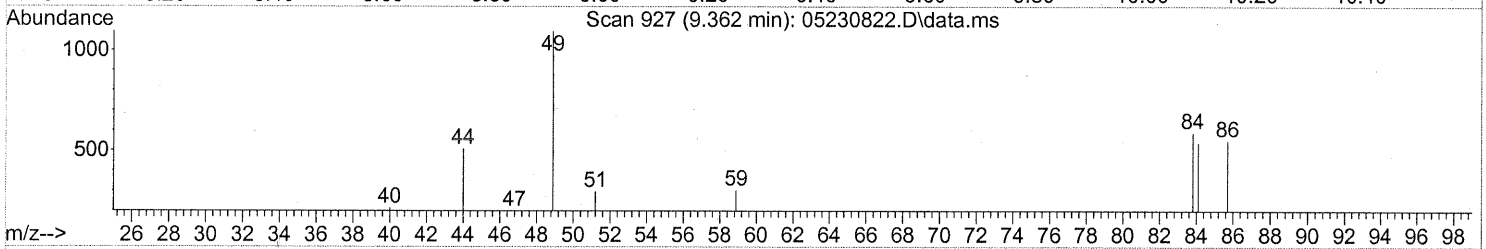
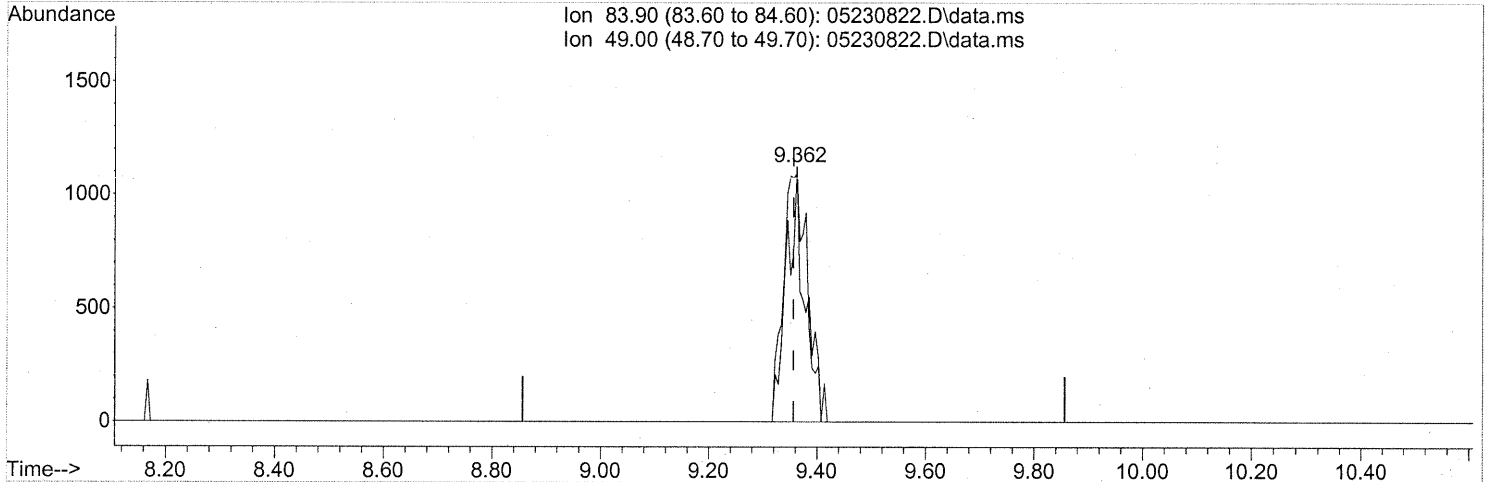
response 3756

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	28.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

(19) Methylene Chloride (T)

9.362min (+0.006) 0.10ng

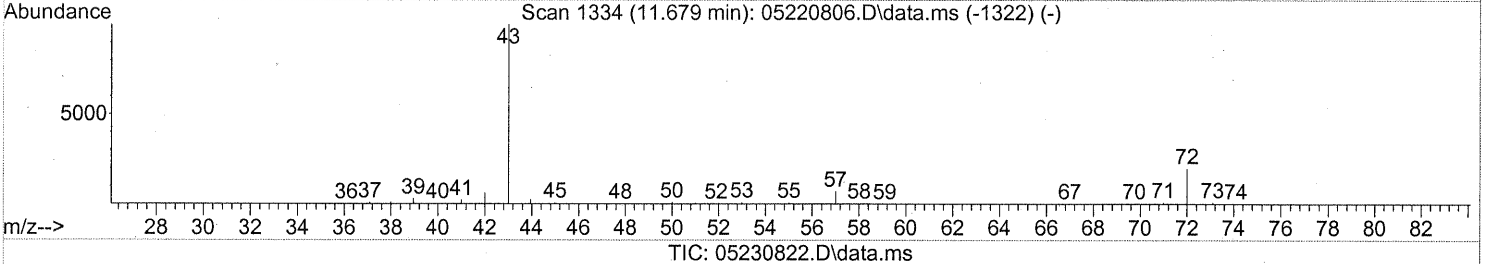
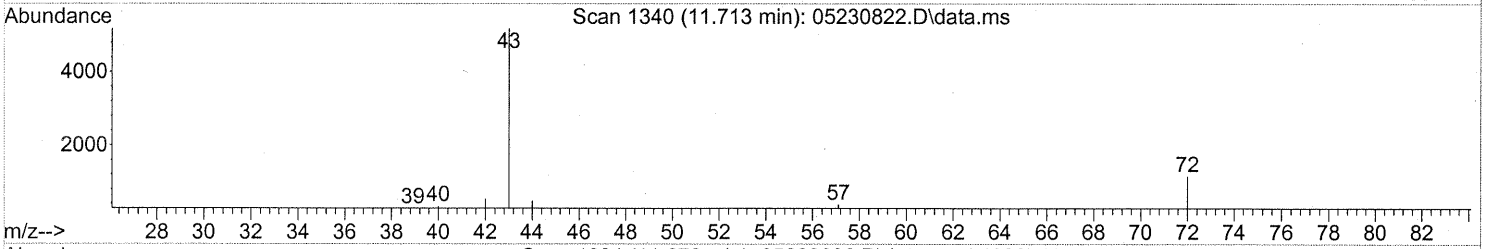
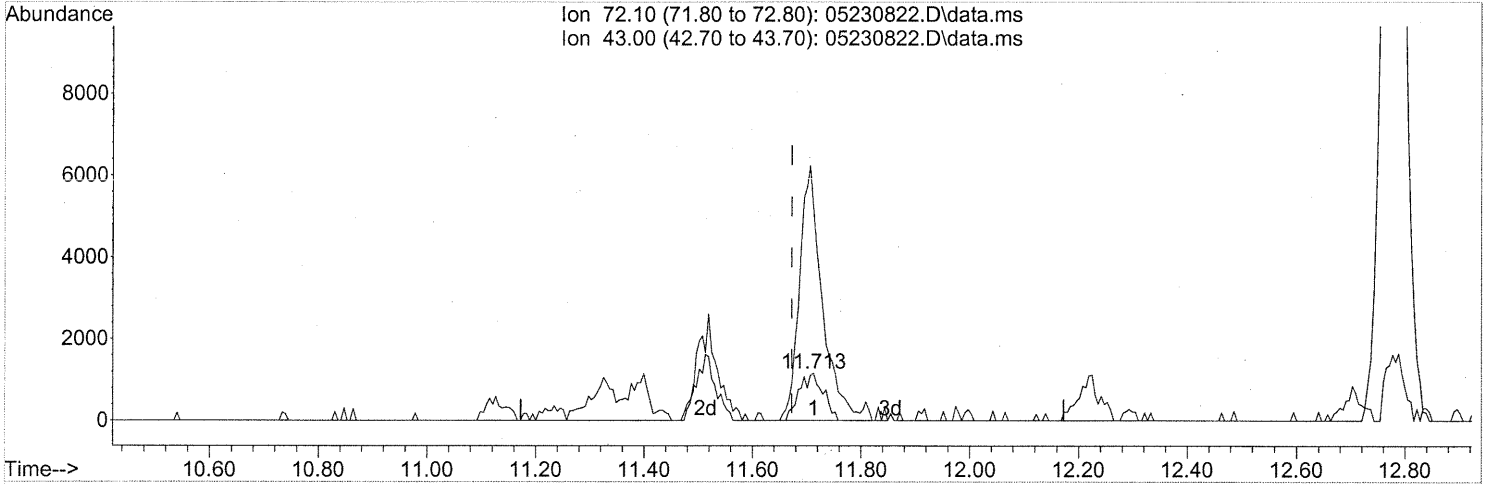
response 2675

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	124.97#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.713min (+0.040) 0.20ng

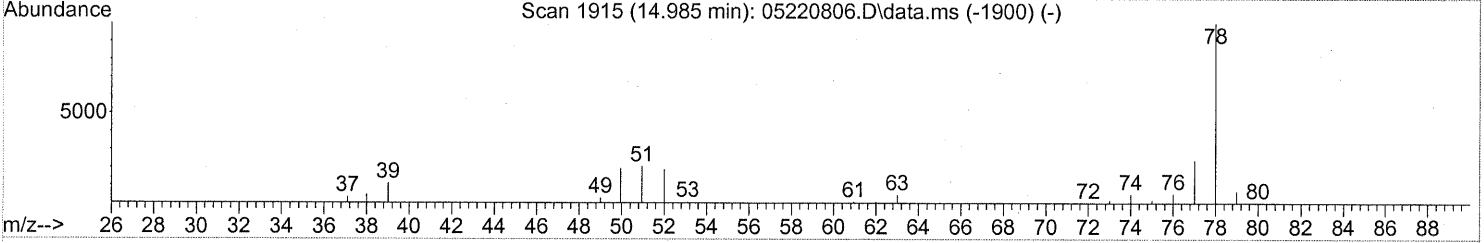
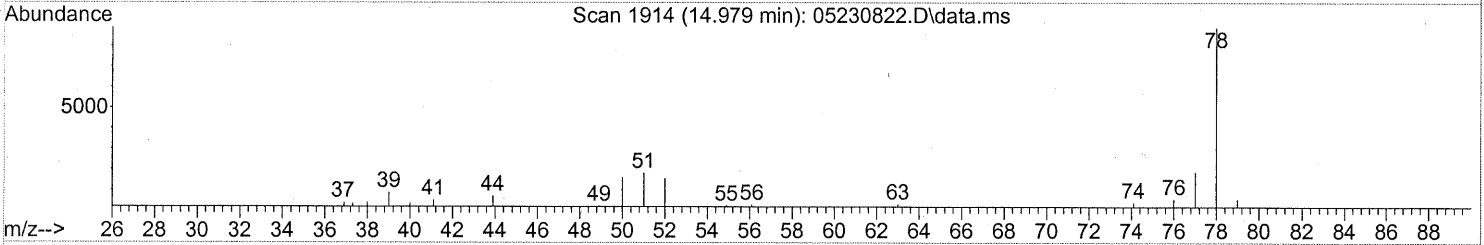
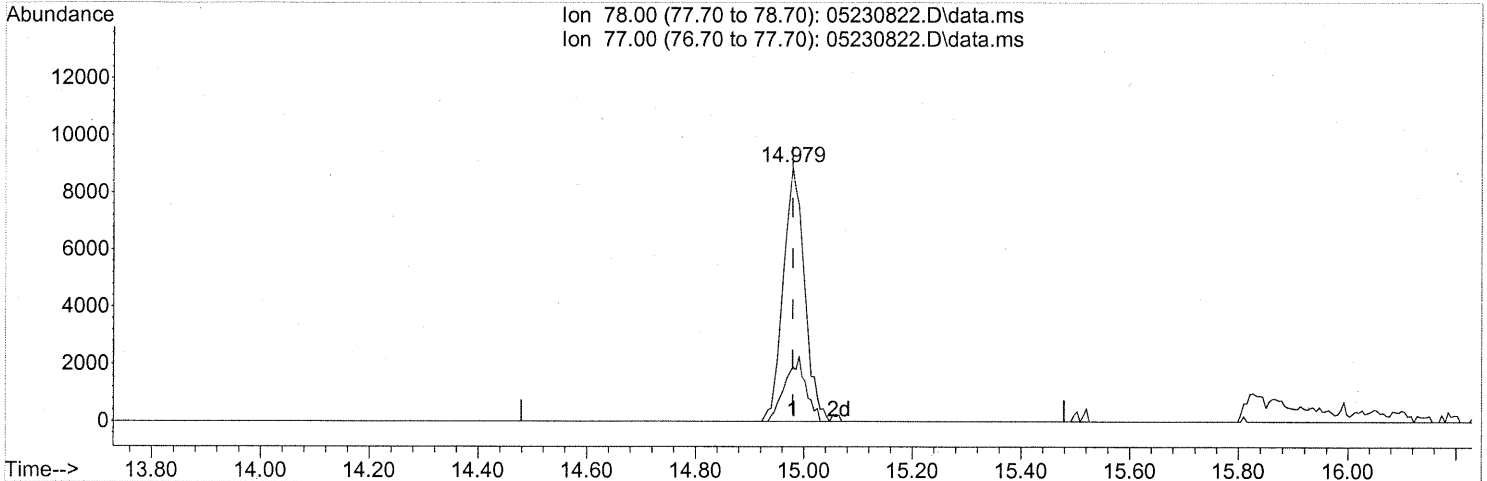
response 3533

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	511.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(41) Benzene (T)

14.979min (-0.000) 0.22ng

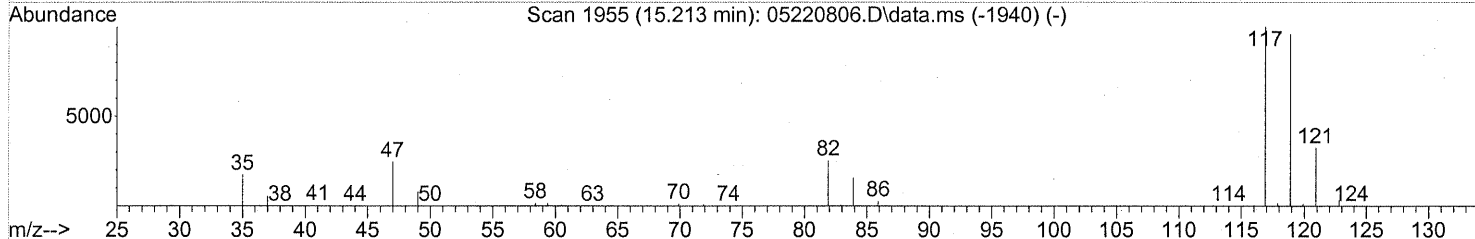
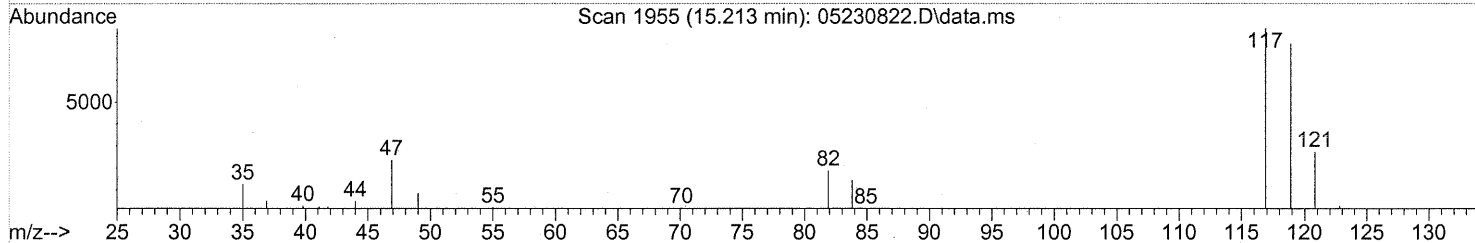
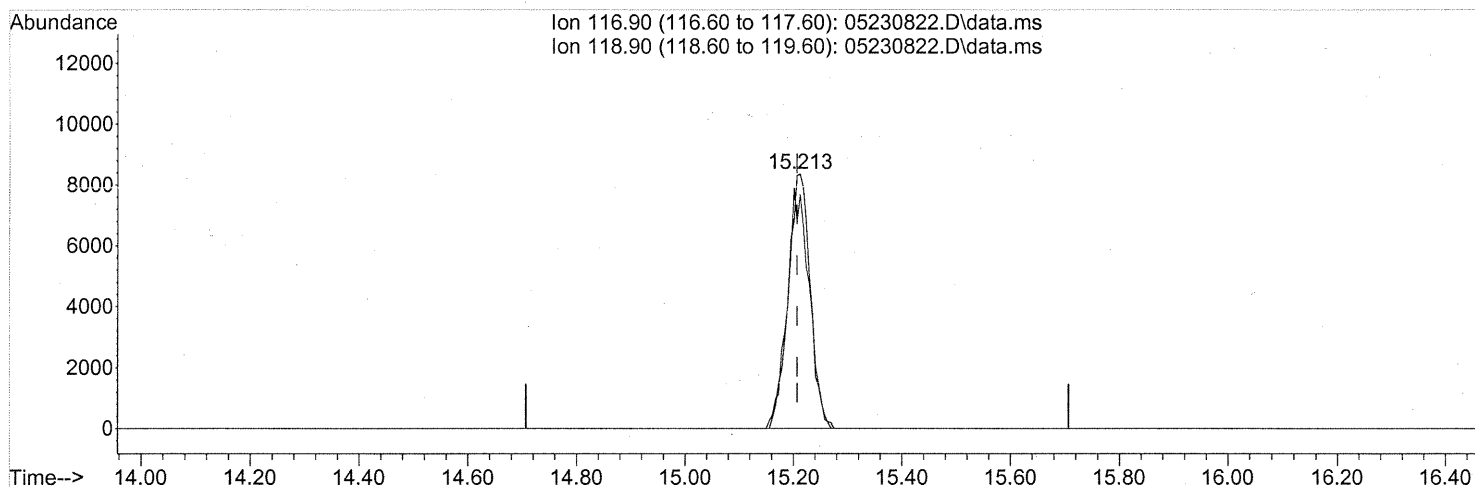
response 24202

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230822.D
Acq On : 24 May 2008 00:24
Operator : RTB
Sample : P0801483-005 (75mL)
Misc : ENSR SG80B-05 (-3.2, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.57ng

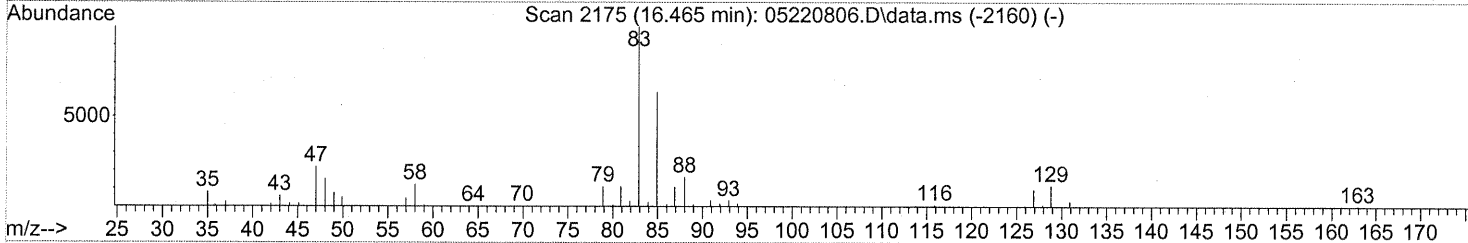
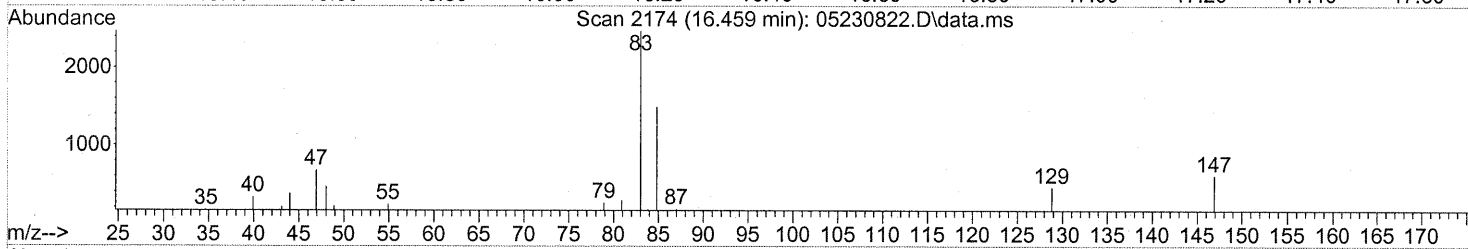
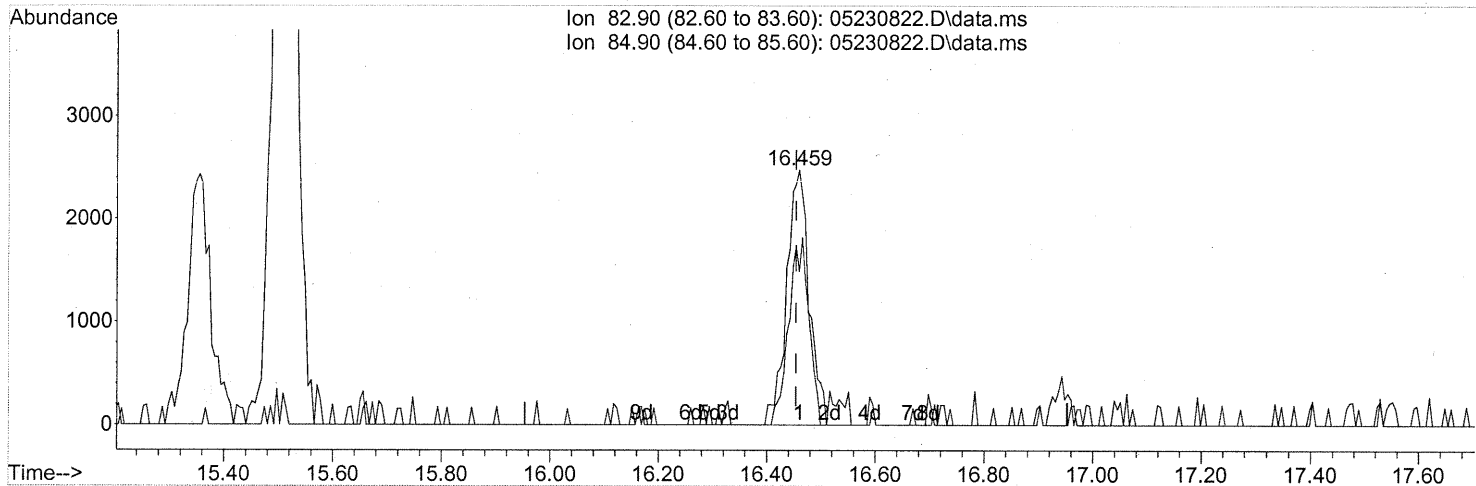
response 23670

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.20ng

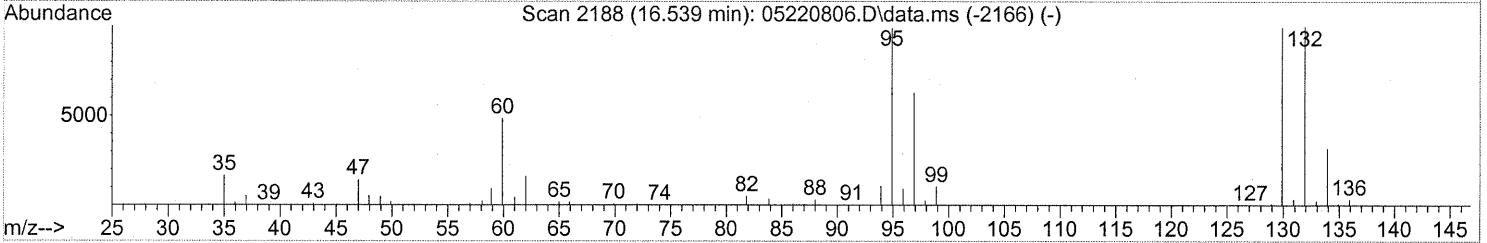
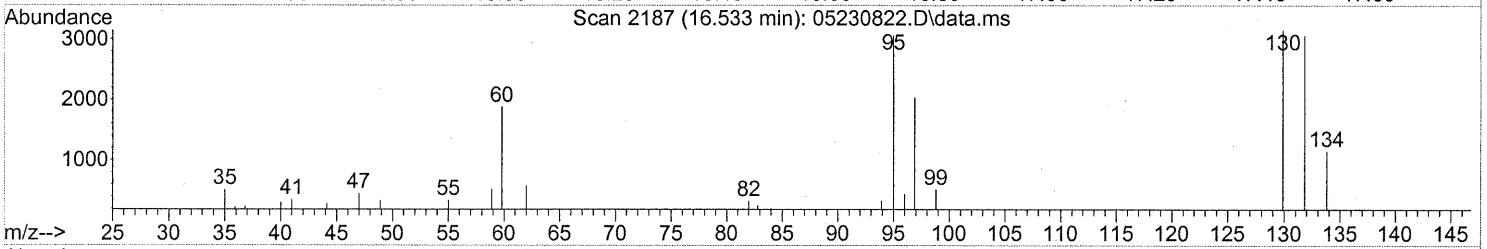
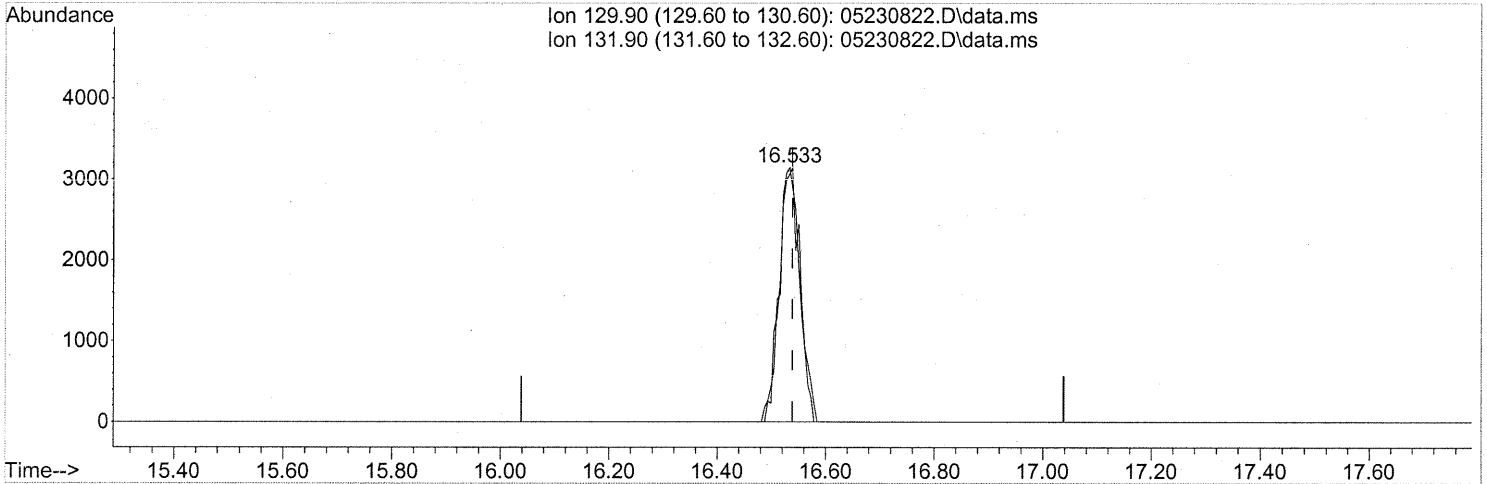
response 7152

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	65.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

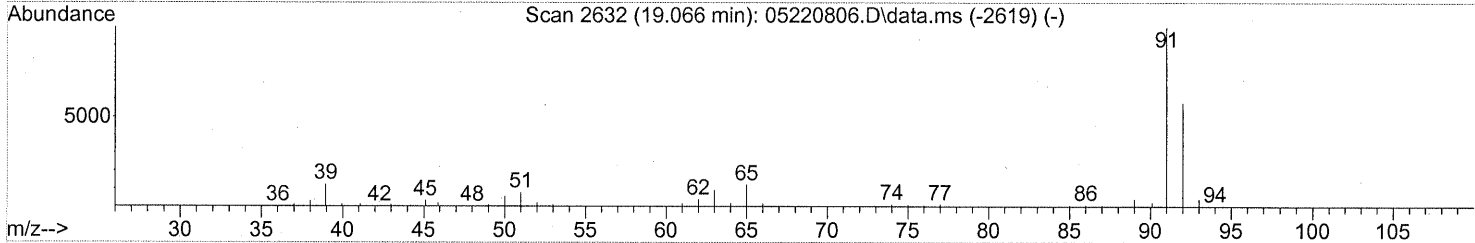
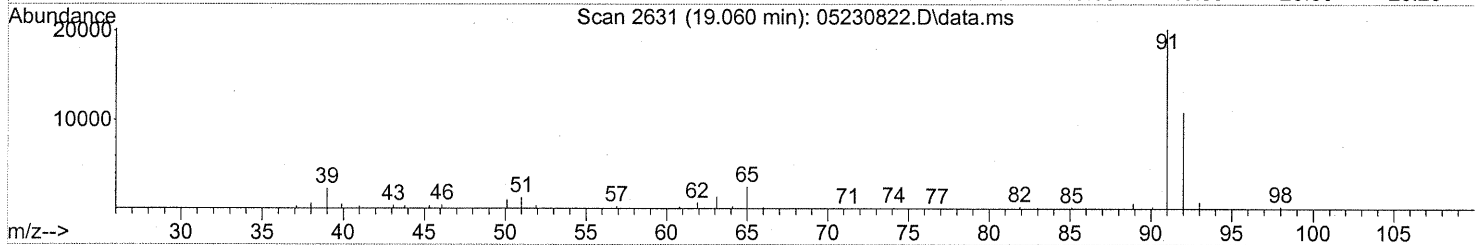
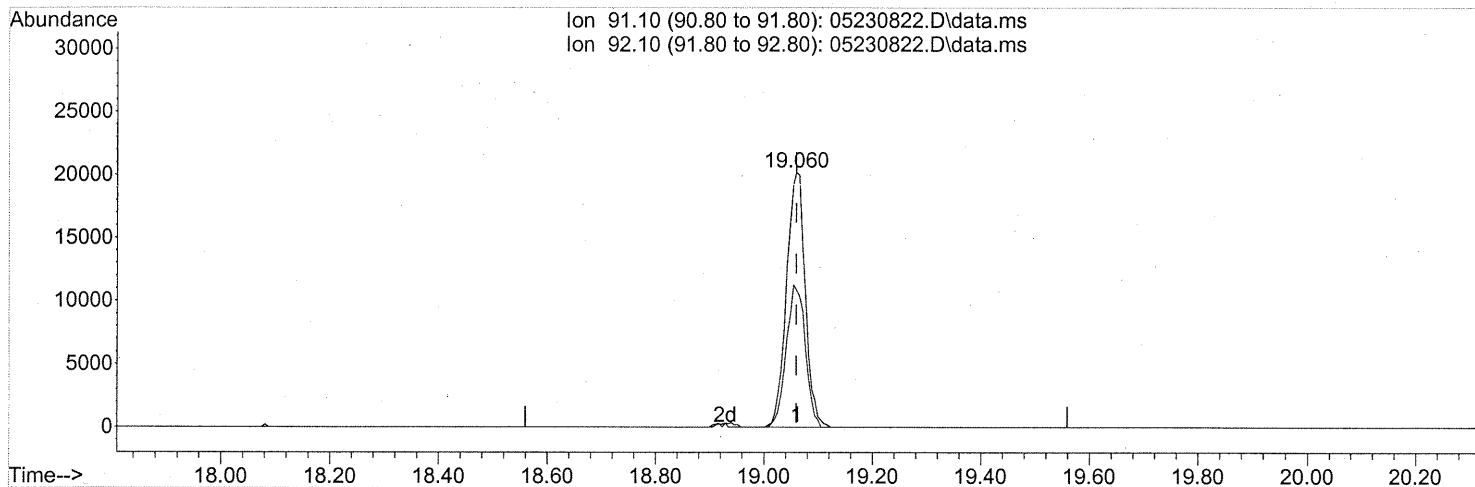
(47) Trichloroethene (T)
 16.533min (-0.006) 0.25ng
 response 8189

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	103.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.41ng

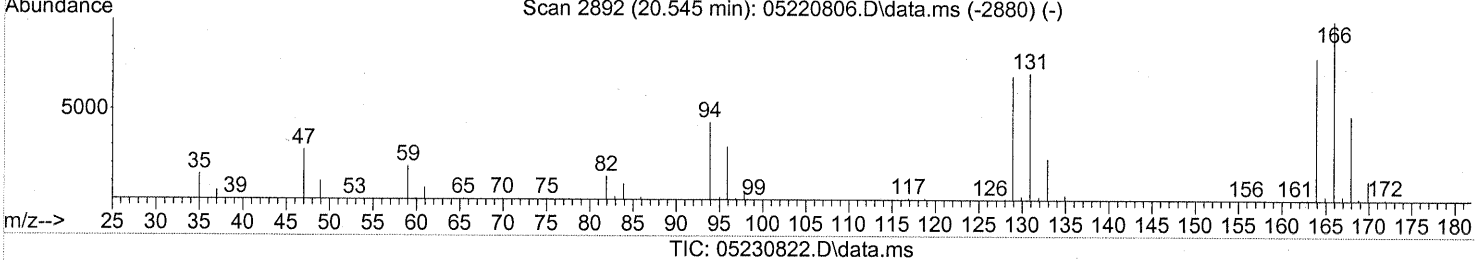
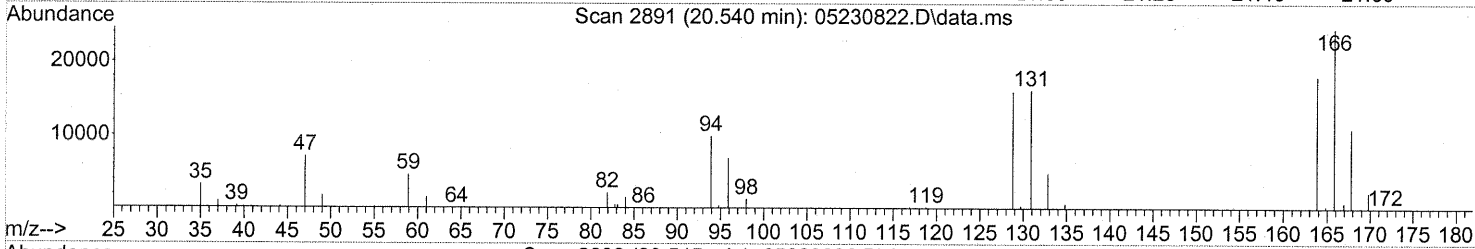
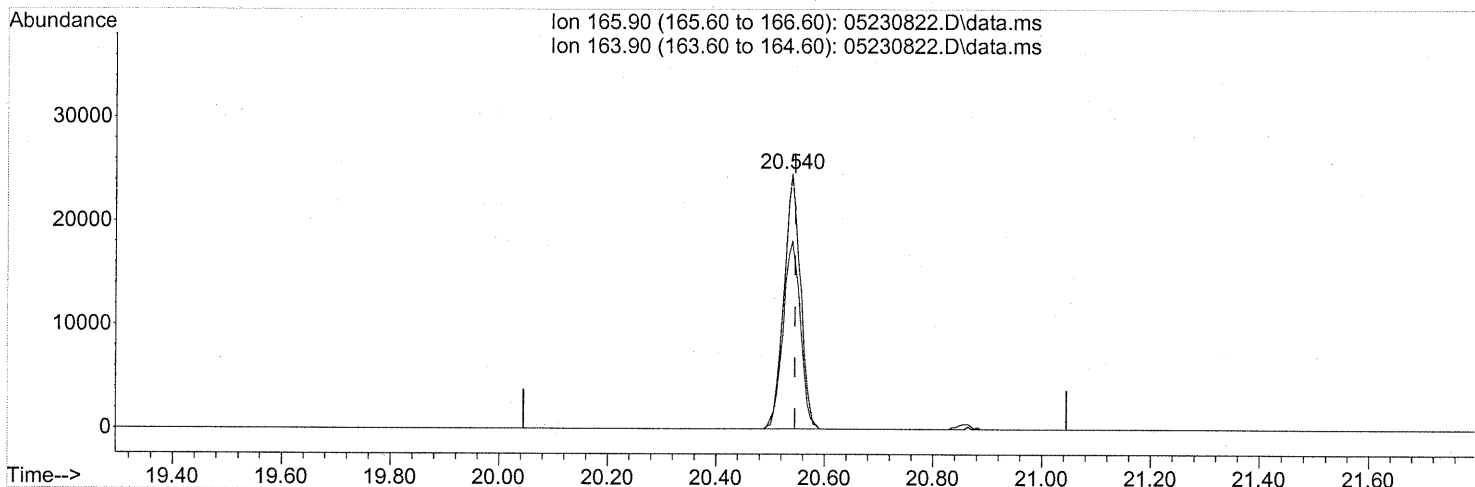
response 48368

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	56.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 1.51ng

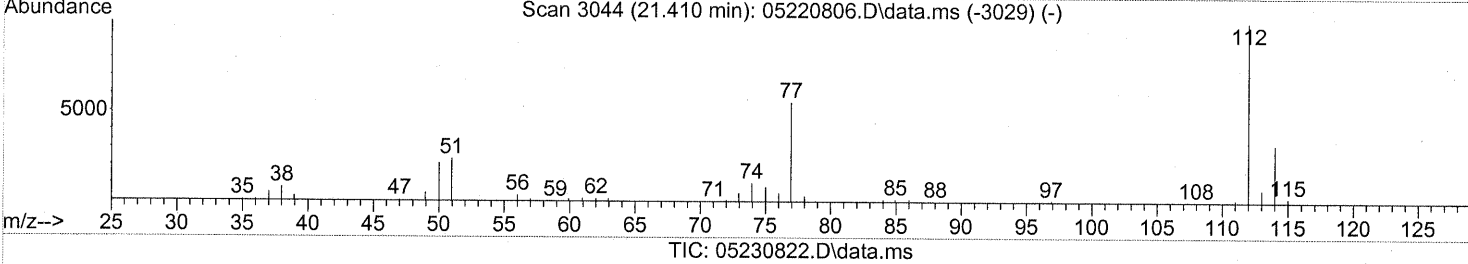
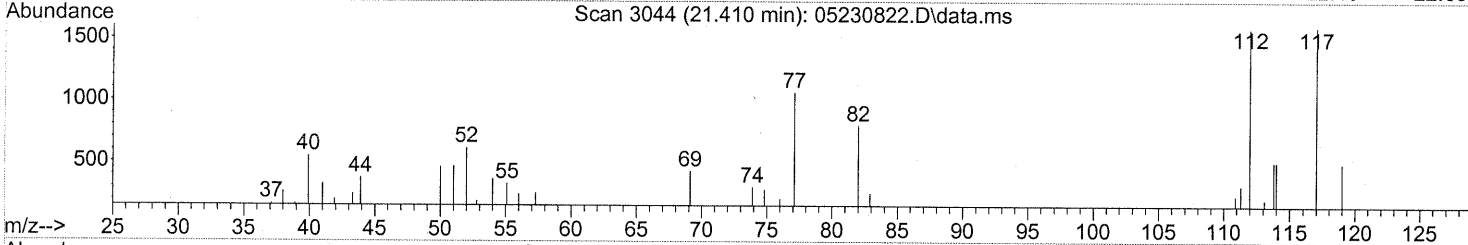
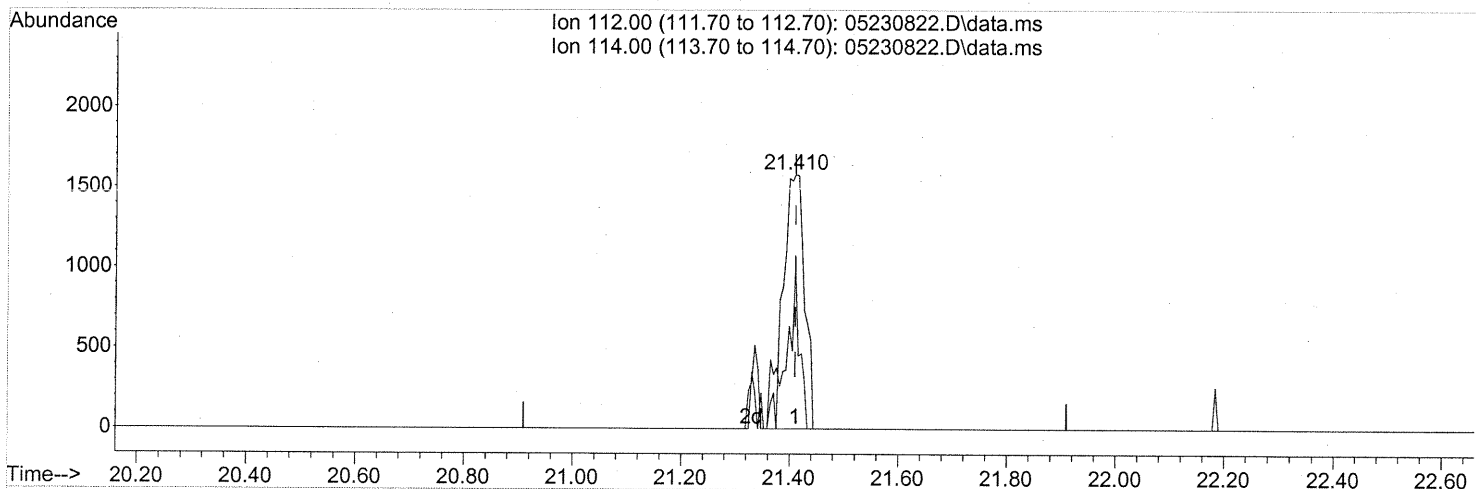
response 52414

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	77.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



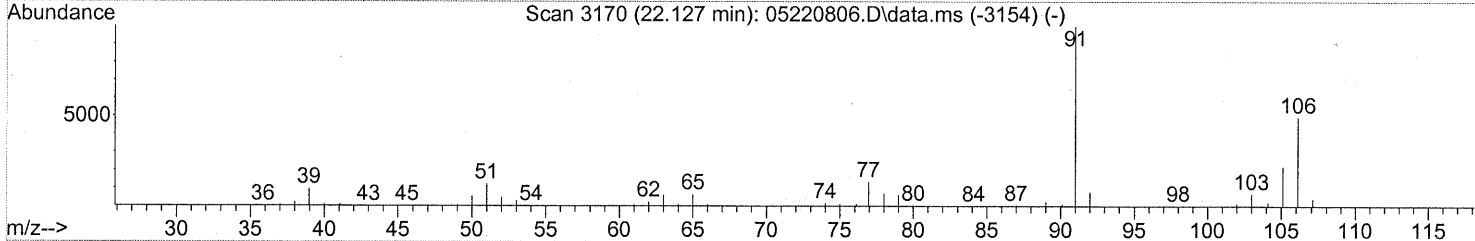
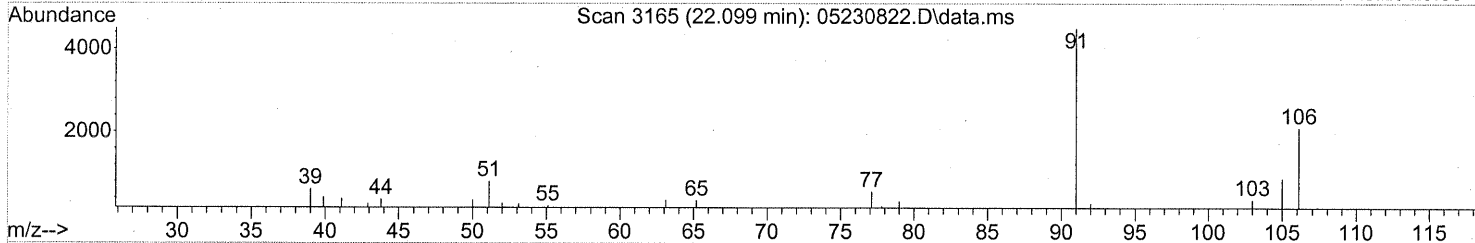
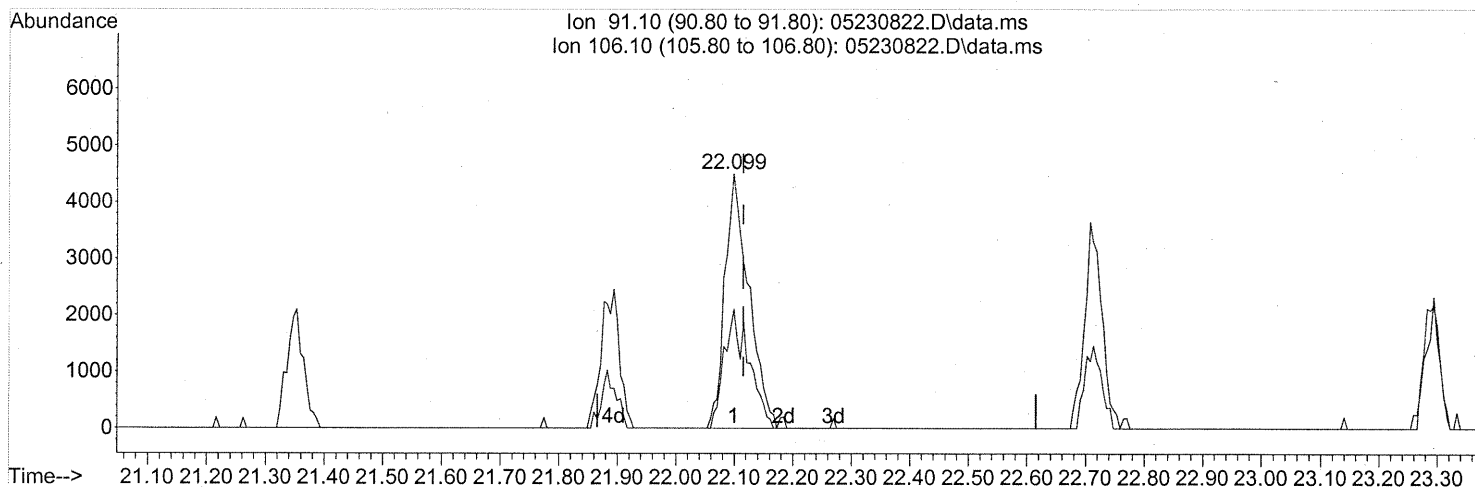
(65) Chlorobenzene (T)
 21.410min (-0.000) 0.05ng
 response 4267

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	32.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

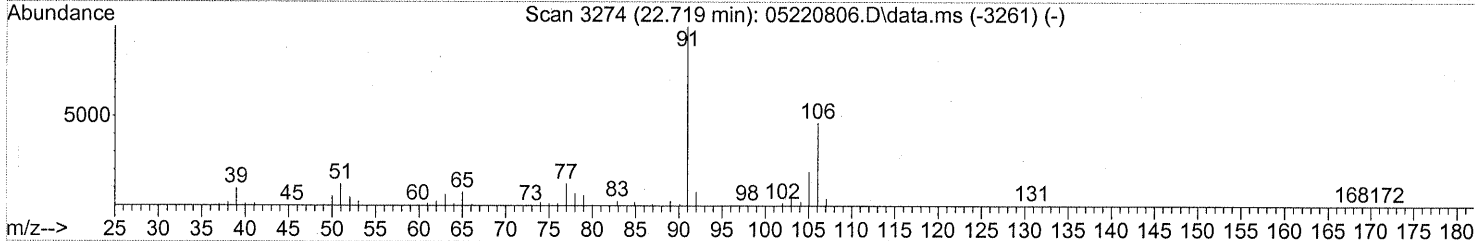
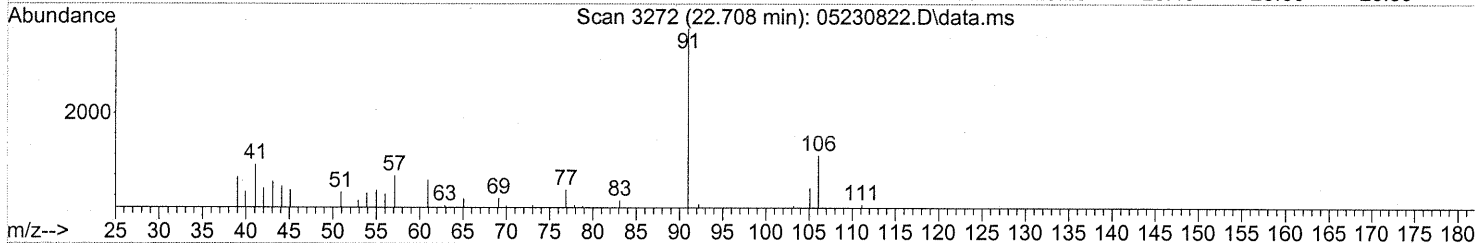
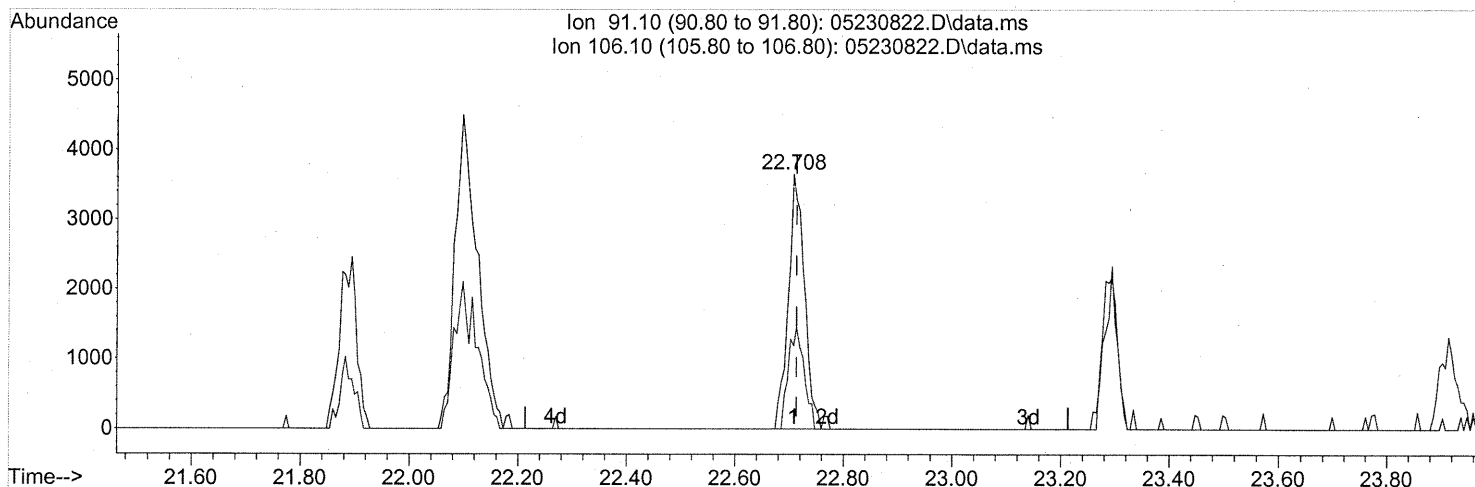
(67) m- & p-Xylene (T)
 22.099min (-0.017) 0.14ng
 response 12805

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

(70) o-Xylene (T)

22.708min (-0.006) 0.08ng

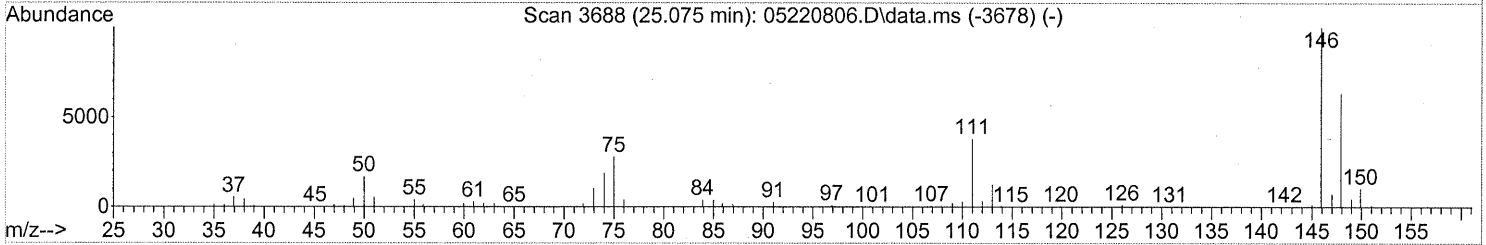
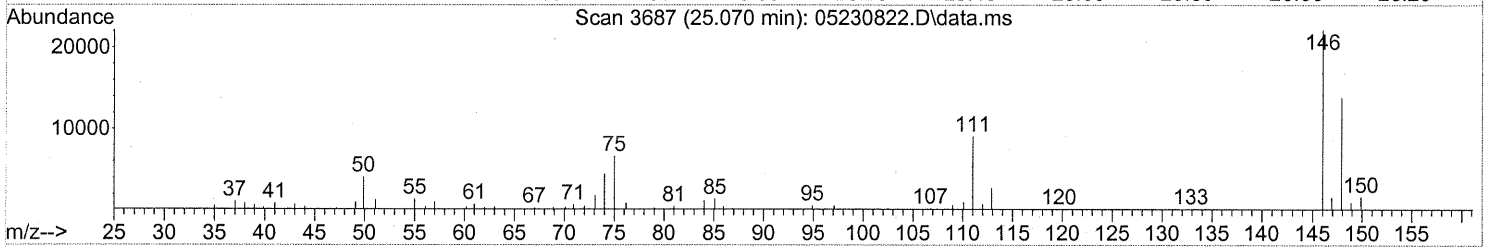
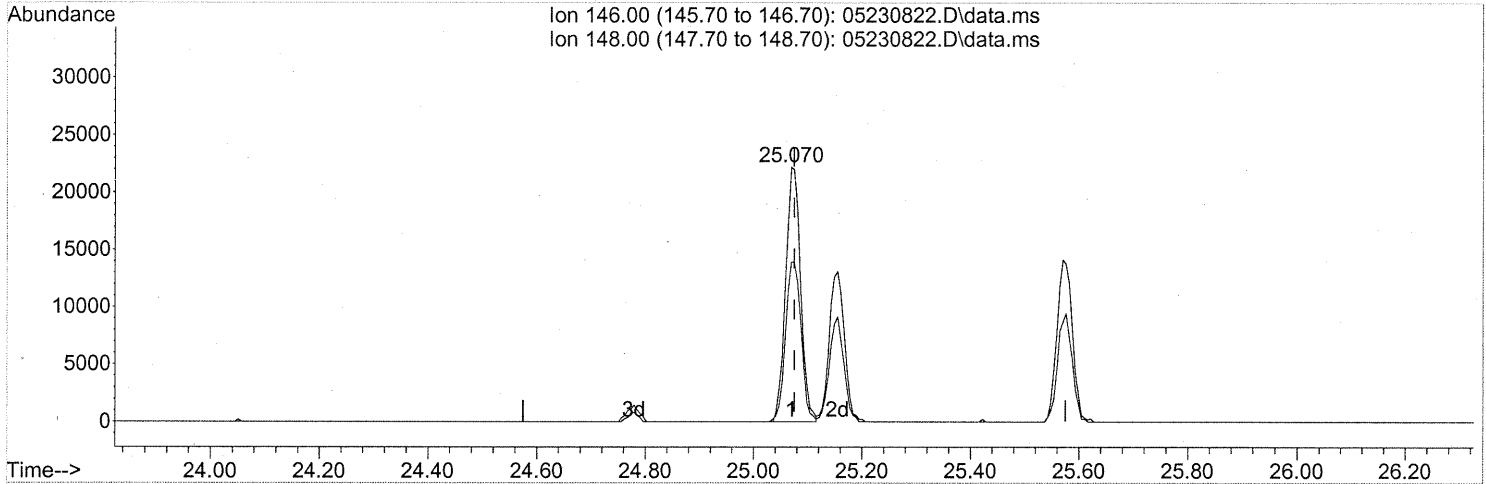
response 7531

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	39.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.070min (-0.006) 0.57ng

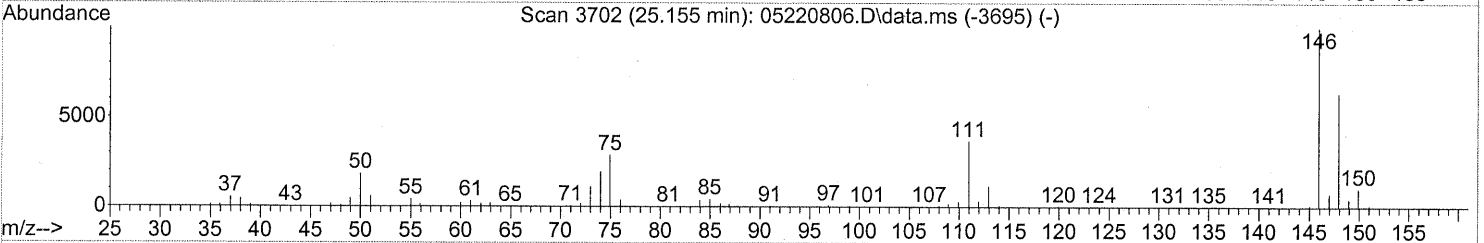
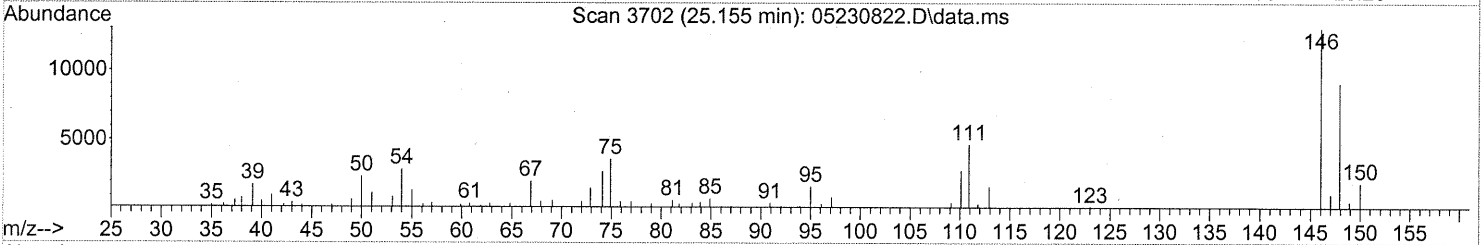
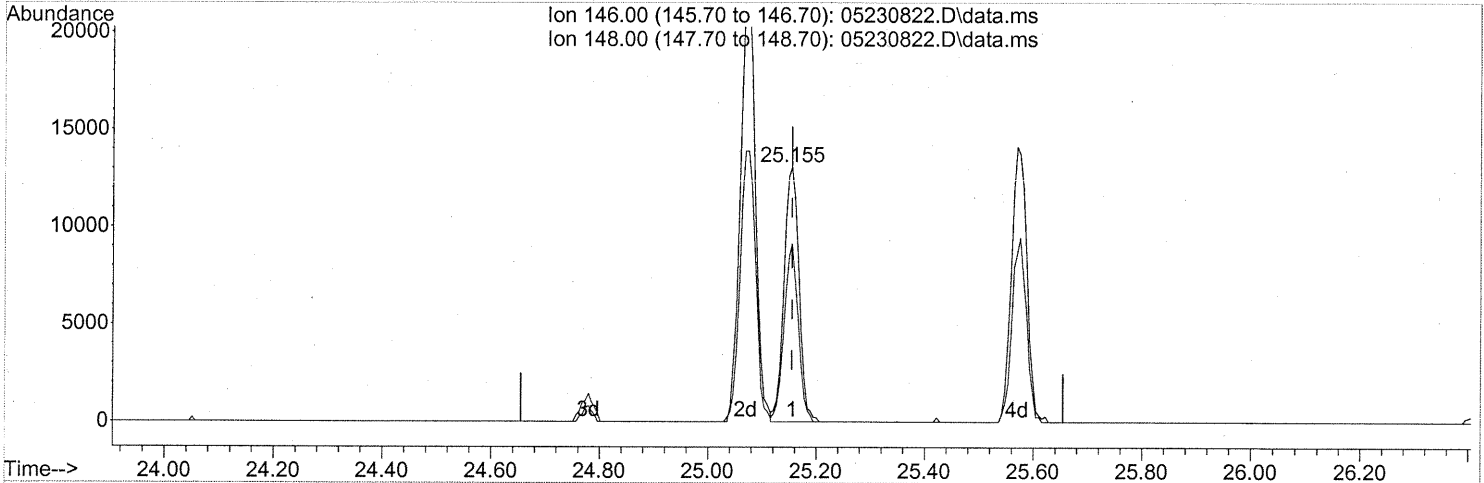
response 42356

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	64.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230822.D
Acq On : 24 May 2008 00:24
Operator : RTB
Sample : P0801483-005 (75mL)
Misc : ENSR SG80B-05 (-3.2, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05230822.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 0.35ng

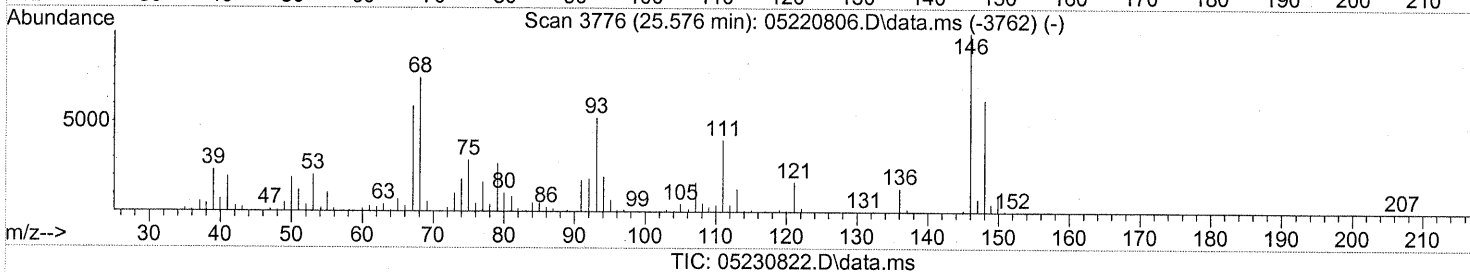
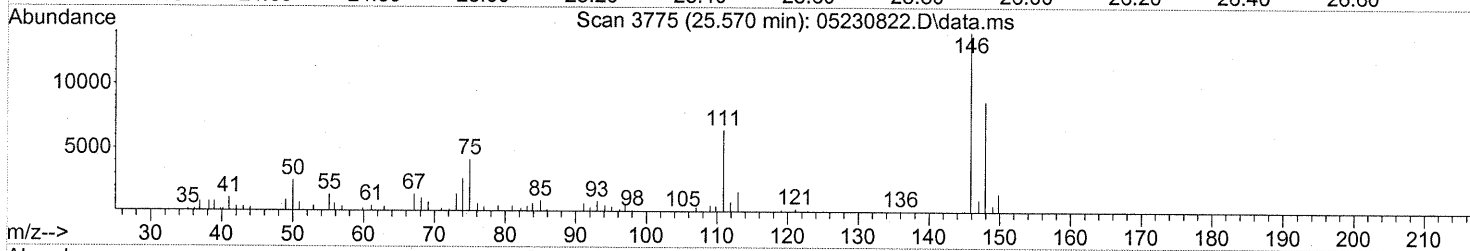
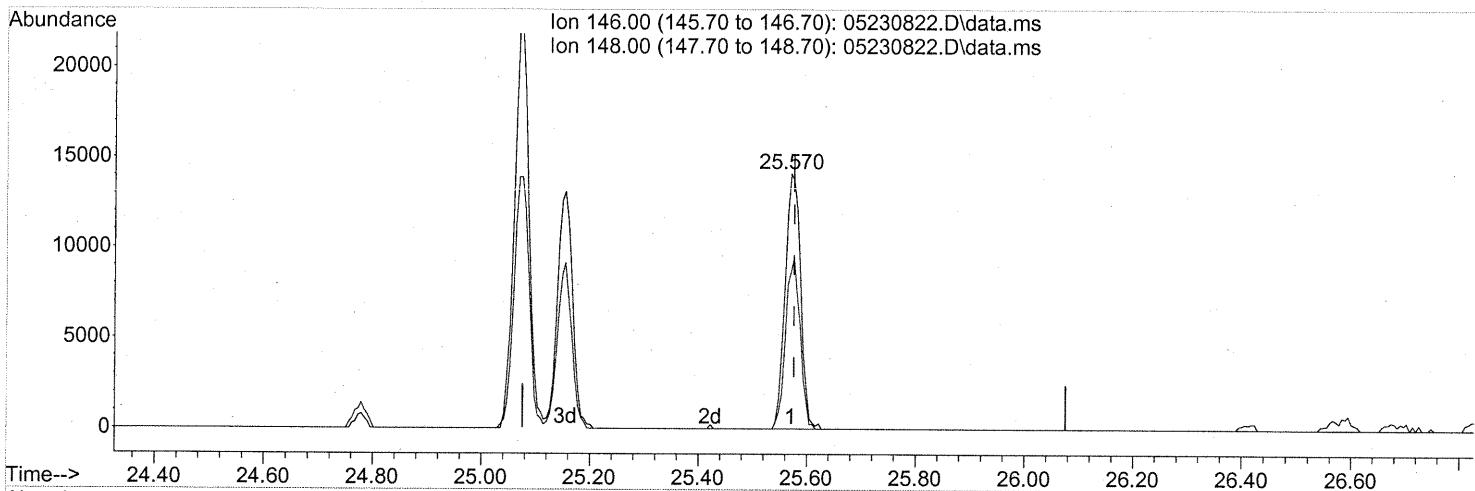
response 25218

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	65.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.570min (-0.006) 0.40ng

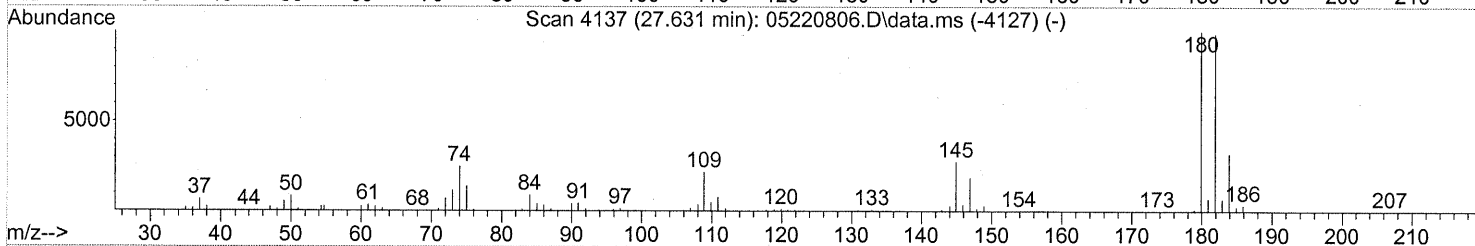
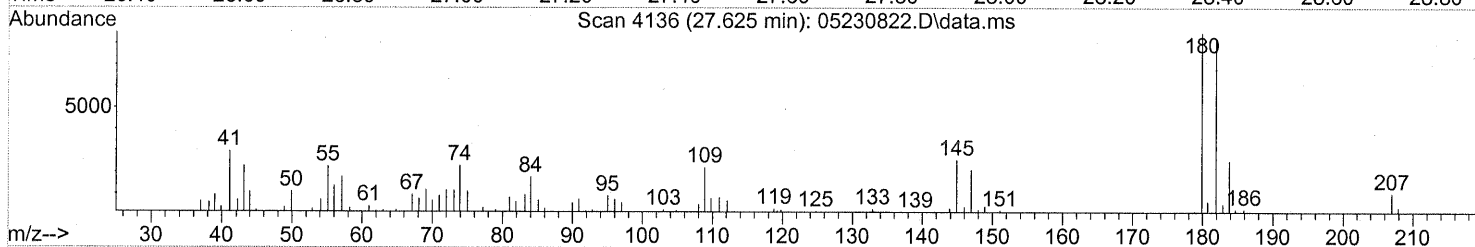
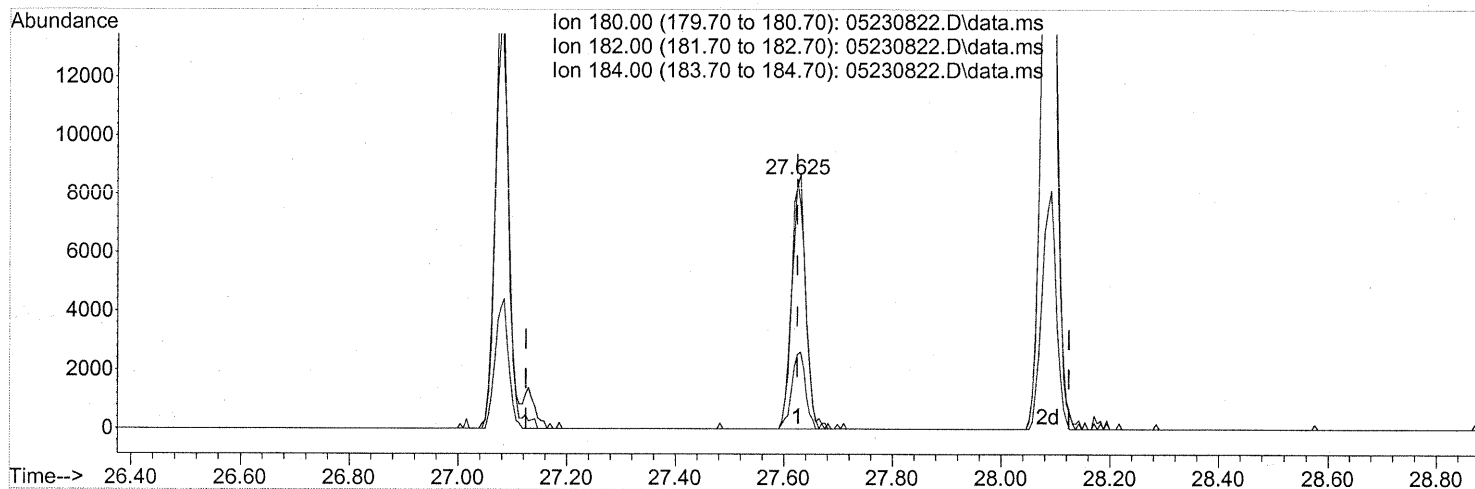
response 27913

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	62.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

(94) 1,2,4-Trichlorobenzene (T)

27.625min (-0.000) 0.29ng

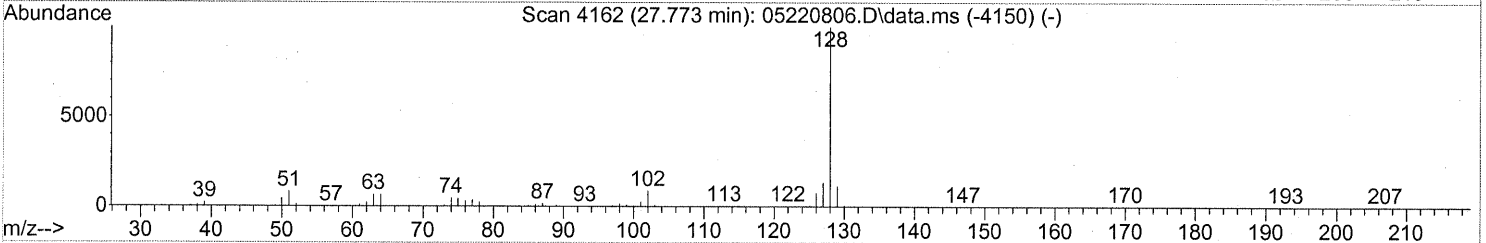
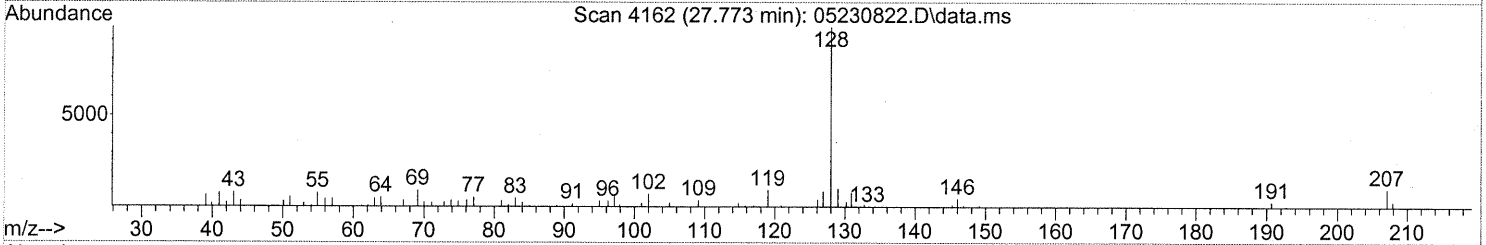
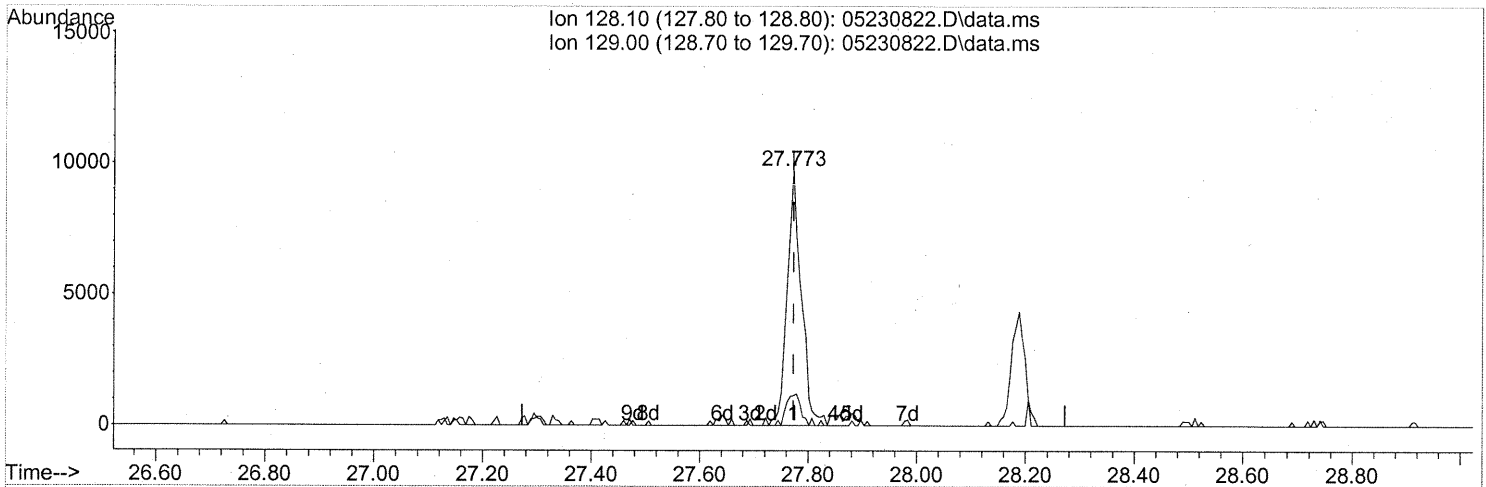
response 15002

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	101.76
184.00	30.30	30.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230822.D\data.ms

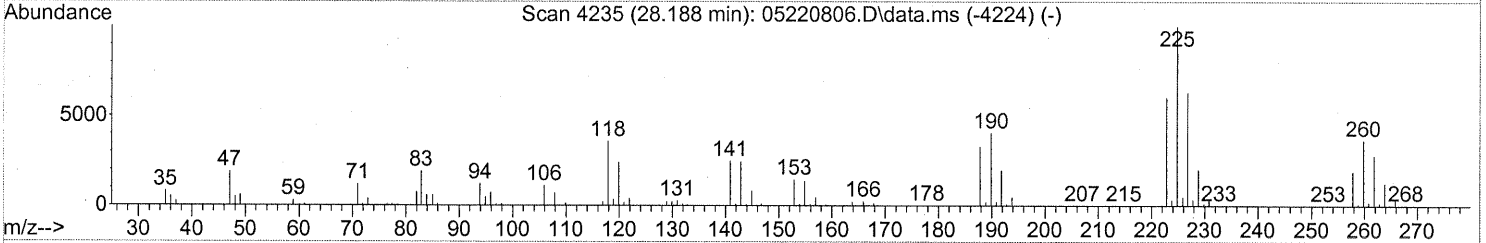
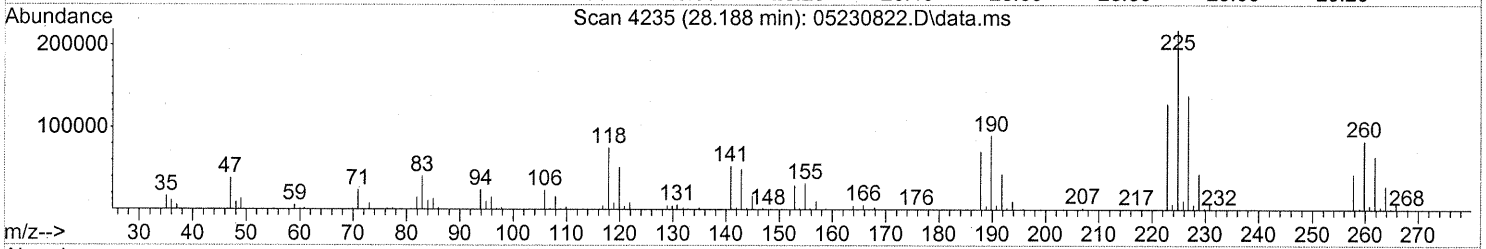
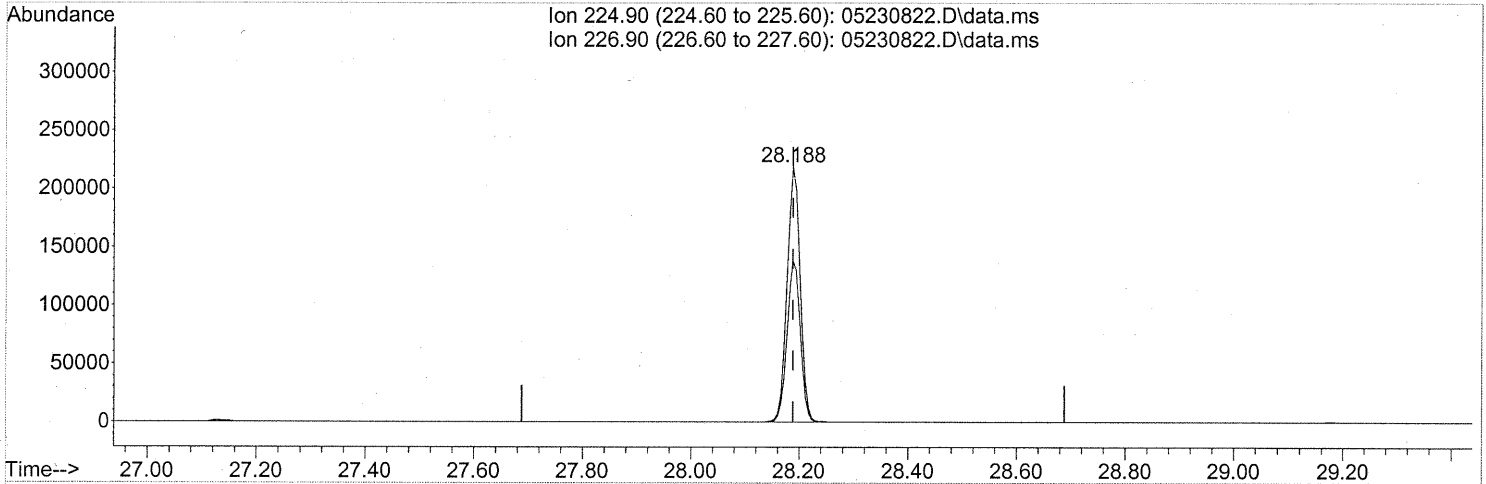
(95) Naphthalene (T)
 27.773min (-0.000) 0.11ng
 response 17567

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 08:19:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

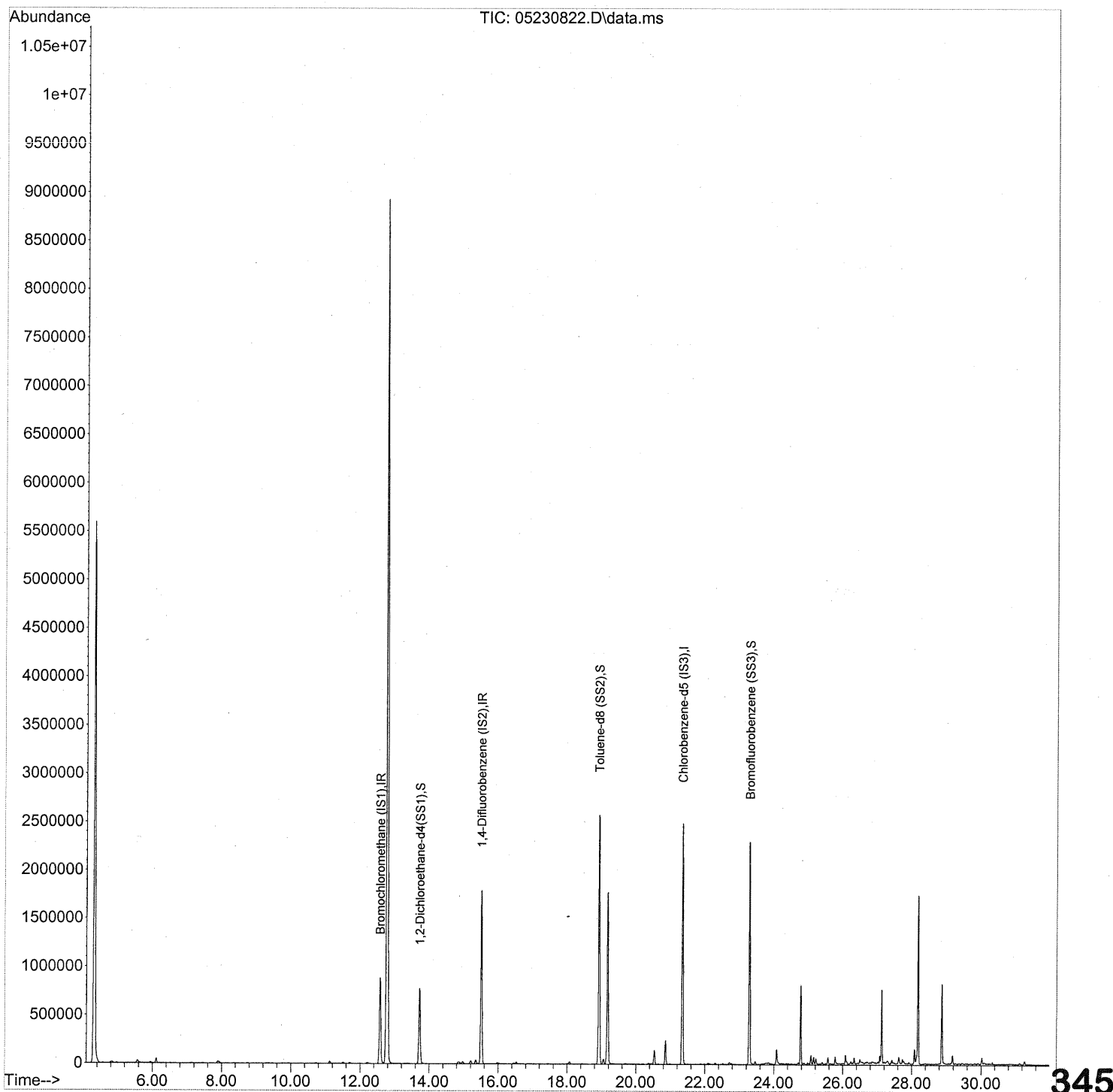
28.188min (-0.000) 10.85ng

response 369928

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	63.91
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230822.D
Acq On : 24 May 2008 00:24
Operator : RTB
Sample : P0801483-005 (75mL)
Misc : ENSR SG80B-05 (-3.2, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 17:03:26 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230822.D
 Acq On : 24 May 2008 00:24
 Operator : RTB
 Sample : P0801483-005 (75mL)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

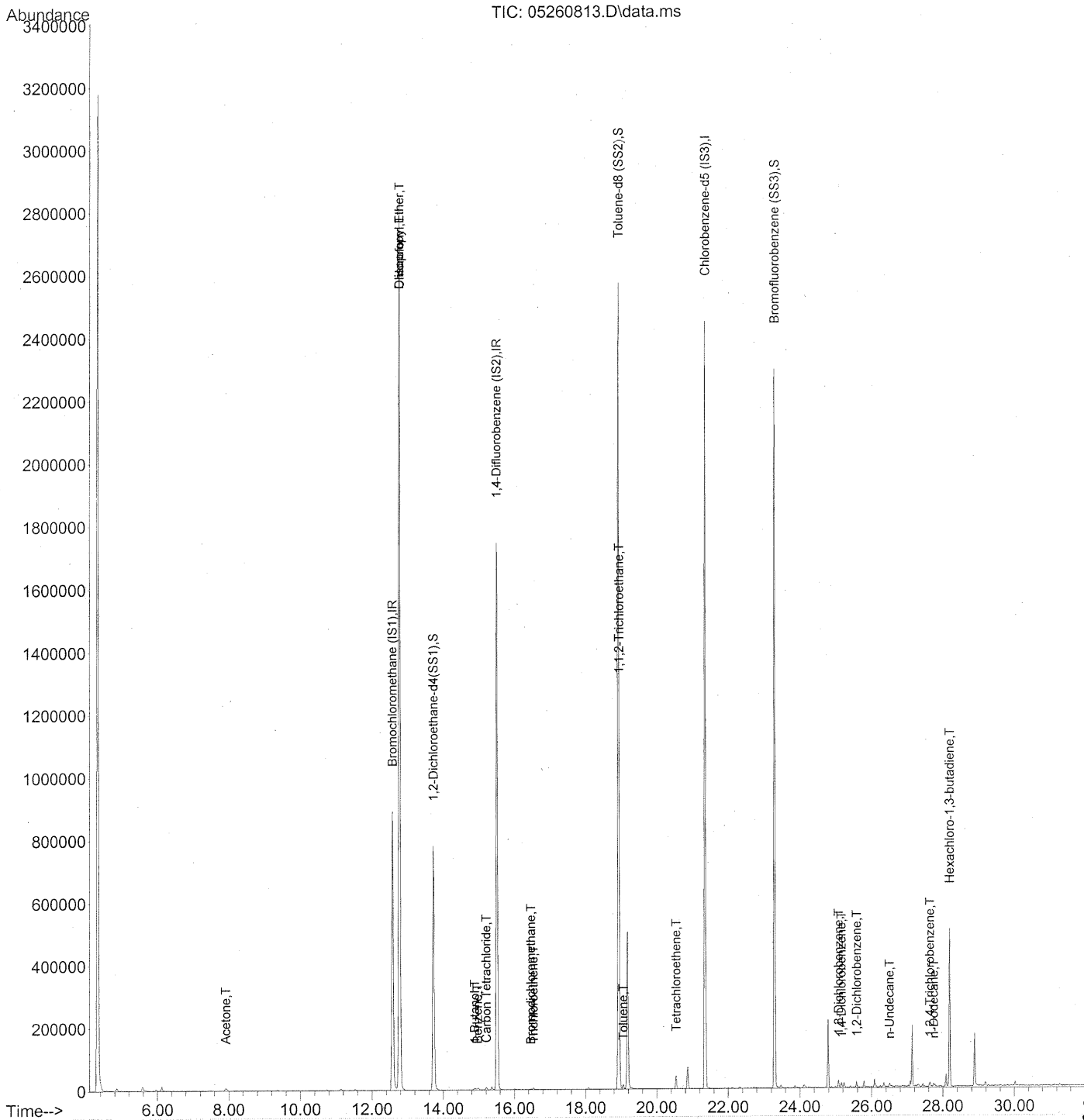
Quant Time: Jun 02 17:03:26 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) Bromochloromethane (IS1)	12.58	130	455877	25.000	ng	-0.02	
3) 1,4-Difluorobenzene (IS2)	15.51	114	2060083	25.000	ng	-0.02	
4) Chlorobenzene-d5 (IS3)	21.35	82	959920	25.000	ng	-0.01	
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...)	13.72	65	789483	24.993	ng	-0.03	
Spiked Amount	25.000						Recovery = 99.96%
5) Toluene-d8 (SS2)	18.92	98	2174415	25.222	ng	-0.02	
Spiked Amount	25.000						Recovery = 100.88%
6) Bromofluorobenzene (SS3)	23.29	174	874687	24.950	ng	0.00	
Spiked Amount	25.000						Recovery = 99.80%
Target Compounds							
7) tert-Butylbenzene	24.86	119	749		N.D.		Qvalue
8) n-Butylbenzene	25.91	91	4202		N.D.		

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

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260813.D
Acq On : 26 May 2008 19:58
Operator : WA
Sample : P0801483-005 Dil (25ml)
Misc : ENSR SG80B-05 (-3.2, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 27 06:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260813.D
 Acq On : 26 May 2008 19:58
 Operator : WA
 Sample : P0801483-005 Dil (25ml)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 27 06:13:29 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	470350	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2015265	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	944470	25.000	ng	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.72	65	798868	24.512	ng	0.00
Spiked Amount	25.000		Recovery =	98.04%		
57) Toluene-d8 (SS2)	18.93	98	2137608	25.201	ng	0.00
Spiked Amount	25.000		Recovery =	100.80%		
73) Bromofluorobenzene (SS3)	23.29	174	859811	24.927	ng	0.00
Spiked Amount	25.000		Recovery =	99.72%		
Target Compounds						
						Qvalue
2) Propene	4.83	42	1790		N.D.	
3) Dichlorodifluoromethane	5.00	85	2193		N.D.	
4) Chloromethane	5.31	50	62		N.D.	
5) Freon 114	0.00	135	0		N.D.	
6) Vinyl Chloride	0.00	62	0		N.D.	
7) 1,3-Butadiene	0.00	54	0		N.D.	
8) Bromomethane	0.00	94	0		N.D.	
9) Chloroethane	0.00	64	0		N.D.	
10) Ethanol	7.14	45	1133		N.D.	
11) Acetonitrile	7.48	41	2154		N.D.	
12) Acrolein	7.67	56	196		N.D.	
13) Acetone	7.91	58	4944	0.195	ng	# 70
14) Trichlorofluoromethane	8.14	101	1010		N.D.	
15) Isopropanol	8.34	45	1453		N.D.	
16) Acrylonitrile	0.00	53	0		N.D.	
17) 1,1-Dichloroethene	9.17	96	199		N.D.	
18) tert-Butanol	9.29	59	118		N.D.	
19) Methylene Chloride	9.36	84	1163		N.D.	
20) Allyl Chloride	0.00	41	0		N.D.	
21) Trichlorotrifluoroethane	9.81	151	72		N.D.	
22) Carbon Disulfide	9.78	76	2156		N.D.	
23) trans-1,2-Dichloroethene	0.00	61	0		N.D.	
24) 1,1-Dichloroethane	11.09	63	51		N.D.	
25) Methyl tert-Butyl Ether	0.00	73	0		N.D.	
26) Vinyl Acetate	0.00	86	0		N.D.	
27) 2-Butanone	11.71	72	447		N.D.	
28) cis-1,2-Dichloroethene	0.00	61	0		N.D.	
29) Diisopropyl Ether	12.77	87	302102	13.341	ng	# 1
30) Ethyl Acetate	0.00	61	0		N.D.	
31) n-Hexane	12.70	57	280		N.D.	

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260813.D
 Acq On : 26 May 2008 19:58
 Operator : WA
 Sample : P0801483-005 Dil (25ml)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 27 06:13:29 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	2991723	69.753	ng	99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.72	62	457	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	6482	0.234	ng	# 32
41) Benzene	14.96	78	7479	0.071	ng	# 52
42) Carbon Tetrachloride	15.21	117	6743	0.166	ng	99
43) Cyclohexane	15.41	84	53	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.46	83	2154	0.060	ng	89
47) Trichloroethene	16.53	130	2895	0.089	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.61	57	430	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.95	97	186947	7.170	ng	# 7
58) Toluene	19.05	91	14027	0.122	ng	98
59) 2-Hexanone	19.33	43	83	N.D.		
60) Dibromochloromethane	19.62	129	57	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.24	43	52	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.54	166	15584	0.457	ng	95
65) Chlorobenzene	21.42	112	1109	N.D.		
66) Ethylbenzene	21.89	91	1693	N.D.		
67) m- & p-Xylene	22.12	91	3653	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.59	104	260	N.D.		
70) o-Xylene	22.73	91	2352	N.D.		
71) n-Nonane	22.98	43	319	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.47	105	193	N.D.		
75) alpha-Pinene	24.11	93	90	N.D.		
76) n-Propylbenzene	24.11	91	791	N.D.		
77) 3-Ethyltoluene	24.23	105	1163	N.D.		
78) 4-Ethyltoluene	24.28	105	1227	N.D.		
79) 1,3,5-Trimethylbenzene	24.36	105	136	N.D.		

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260813.D
 Acq On : 26 May 2008 19:58
 Operator : WA
 Sample : P0801483-005 Dil (25ml)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 27 06:13:29 2008

Quant Method : J:\MS13\METHODS\R13052208.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu May 22 11:37:04 2008

Response via : Initial Calibration

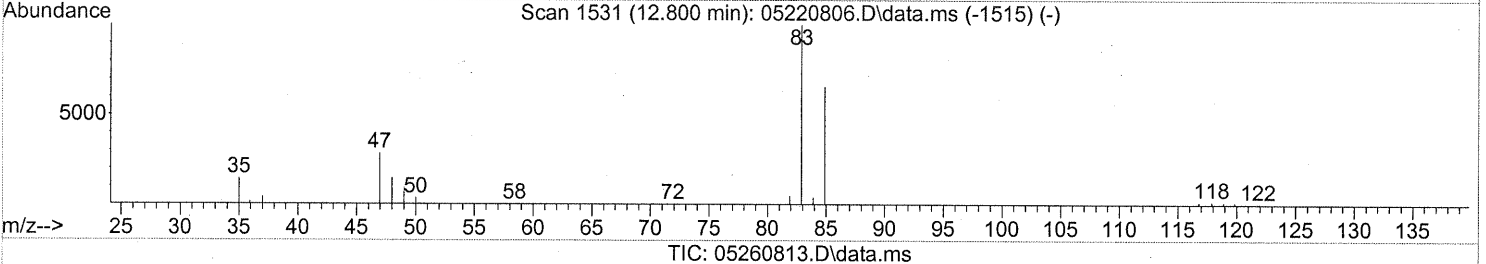
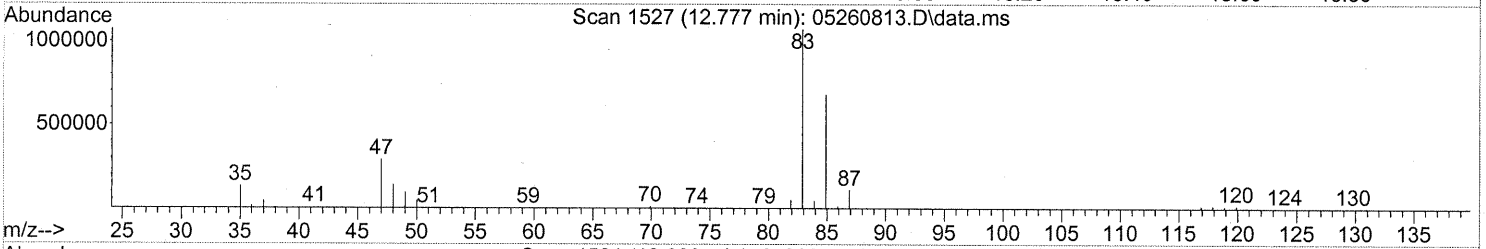
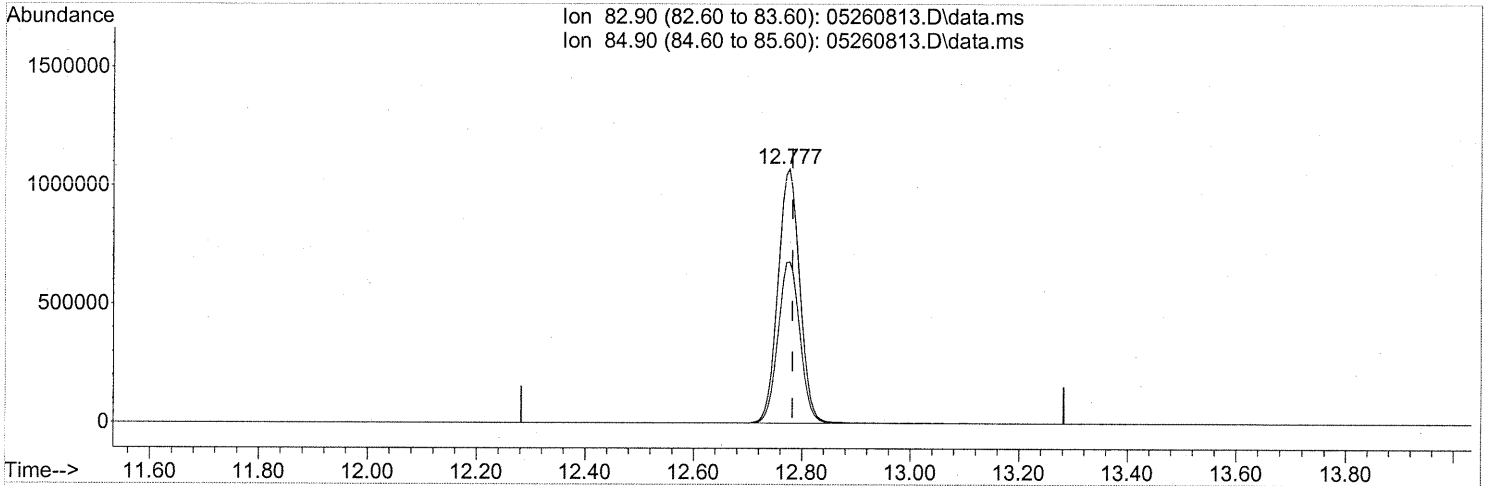
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.57	118	68		N.D.	
81) 2-Ethyltoluene	24.62	105	831		N.D.	
82) 1,2,4-Trimethylbenzene	24.89	105	1323		N.D.	
83) n-Decane	24.98	57	2147		N.D.	
84) Benzyl Chloride	25.05	91	59		N.D.	
85) 1,3-Dichlorobenzene	25.08	146	12523	0.173	ng	97
86) 1,4-Dichlorobenzene	25.16	146	7899	0.112	ng	98
87) sec-Butylbenzene	25.21	105	1124		N.D.	
88) p-Isopropyltoluene	25.40	119	831		N.D.	
89) 1,2,3-Trimethylbenzene	25.42	105	1123		N.D.	
90) 1,2-Dichlorobenzene	25.58	146	8443	0.123	ng	98
91) d-Limonene	25.57	68	581		N.D.	
92) 1,2-Dibromo-3-Chloropr...	26.24	157	198		N.D.	
93) n-Undecane	26.50	57	5896	0.088	ng	73
94) 1,2,4-Trichlorobenzene	27.63	180	4169	0.083	ng	97
95) Naphthalene	27.78	128	5166		N.D.	
96) n-Dodecane	27.74	57	3794	0.057	ng	80
97) Hexachloro-1,3-butadiene	28.19	225	109124	3.253	ng	98

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260813.D
 Acq On : 26 May 2008 19:58
 Operator : WA
 Sample : P0801483-005 Dil (25ml)
 Misc : ENSR SG80B-05 (-3.2, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 27 06:13:29 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)

12.777min (-0.006) 69.75ng

response 2991723

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.96
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG26B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00833

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/24/08 & 5/26/08
 Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -5.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	13	1.3	0.46	2.6	0.26	J
74-87-3	Chloromethane	ND	2.6	1.3	ND	1.2	0.62	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	13	1.3	ND	1.8	0.18	
75-01-4	Vinyl Chloride	ND	2.6	1.3	ND	1.0	0.50	
74-83-9	Bromomethane	ND	2.6	1.3	ND	0.66	0.33	
75-00-3	Chloroethane	ND	2.6	1.3	ND	0.98	0.49	
64-17-5	Ethanol	2.7	130	1.3	1.4	68	0.68	J, B
67-64-1	Acetone	13	130	1.9	5.6	54	0.79	J, B
75-69-4	Trichlorofluoromethane	ND	2.6	1.3	ND	0.46	0.23	
107-13-1	Acrylonitrile	ND	13	1.8	ND	5.9	0.83	
75-35-4	1,1-Dichloroethene	3.9	2.6	1.3	0.99	0.65	0.32	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	13	1.9	ND	4.2	0.63	
75-09-2	Methylene Chloride	1.8	13	1.3	0.53	3.7	0.37	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.6	1.3	ND	0.82	0.41	
76-13-1	Trichlorotrifluoroethane	ND	2.6	1.4	ND	0.34	0.19	
75-15-0	Carbon Disulfide	ND	13	3.1	ND	4.1	0.99	
156-60-5	trans-1,2-Dichloroethene	ND	2.6	1.3	ND	0.65	0.32	
75-34-3	1,1-Dichloroethane	ND	2.6	1.3	ND	0.64	0.32	
1634-04-4	Methyl tert-Butyl Ether	ND	2.6	1.3	ND	0.71	0.36	
108-05-4	Vinyl Acetate	ND	130	4.1	ND	37	1.2	
78-93-3	2-Butanone (MEK)	4.5	13	1.3	1.5	4.4	0.44	J
156-59-2	cis-1,2-Dichloroethene	ND	2.6	1.3	ND	0.65	0.32	
108-20-3	Diisopropyl Ether	ND	13	1.5	ND	3.1	0.36	
67-66-3	Chloroform	4,600	2.6	1.5	940	0.53	0.31	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG26B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00833

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/24/08 & 5/26/08
 Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -5.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	13	1.3	ND	3.1	0.31	
107-06-2	1,2-Dichloroethane	ND	2.6	1.3	ND	0.64	0.32	
71-55-6	1,1,1-Trichloroethane	ND	2.6	1.3	ND	0.47	0.24	
71-43-2	Benzene	3.8	2.6	1.3	1.2	0.81	0.40	
56-23-5	Carbon Tetrachloride	17	2.6	1.3	2.7	0.41	0.20	
994-05-8	tert-Amyl Methyl Ether	ND	13	1.3	ND	3.1	0.31	
78-87-5	1,2-Dichloropropane	ND	2.6	1.3	ND	0.56	0.28	
75-27-4	Bromodichloromethane	ND	2.6	1.3	ND	0.38	0.19	
79-01-6	Trichloroethene	77	2.6	1.3	14	0.48	0.24	
123-91-1	1,4-Dioxane	ND	13	1.6	ND	3.6	0.44	
80-62-6	Methyl Methacrylate	ND	13	1.9	ND	3.1	0.47	
142-82-5	n-Heptane	ND	13	1.6	ND	3.1	0.40	
10061-01-5	cis-1,3-Dichloropropene	ND	13	1.3	ND	2.8	0.29	
108-10-1	4-Methyl-2-pentanone	ND	13	1.4	ND	3.1	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	13	1.6	ND	2.8	0.36	
79-00-5	1,1,2-Trichloroethane	ND	2.6	1.3	ND	0.47	0.24	
108-88-3	Toluene	6.4	13	1.3	1.7	3.4	0.34	J
591-78-6	2-Hexanone	ND	13	2.0	ND	3.1	0.48	
124-48-1	Dibromochloromethane	ND	2.6	1.7	ND	0.30	0.21	
106-93-4	1,2-Dibromoethane	ND	2.6	1.4	ND	0.33	0.18	
111-65-9	n-Octane	ND	13	1.3	ND	2.8	0.28	
127-18-4	Tetrachloroethene	13	2.6	1.3	1.9	0.38	0.19	
108-90-7	Chlorobenzene	2.7	2.6	1.3	0.58	0.56	0.29	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: 04 Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG26B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00833

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/24/08 & 5/26/08
 Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -5.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.93

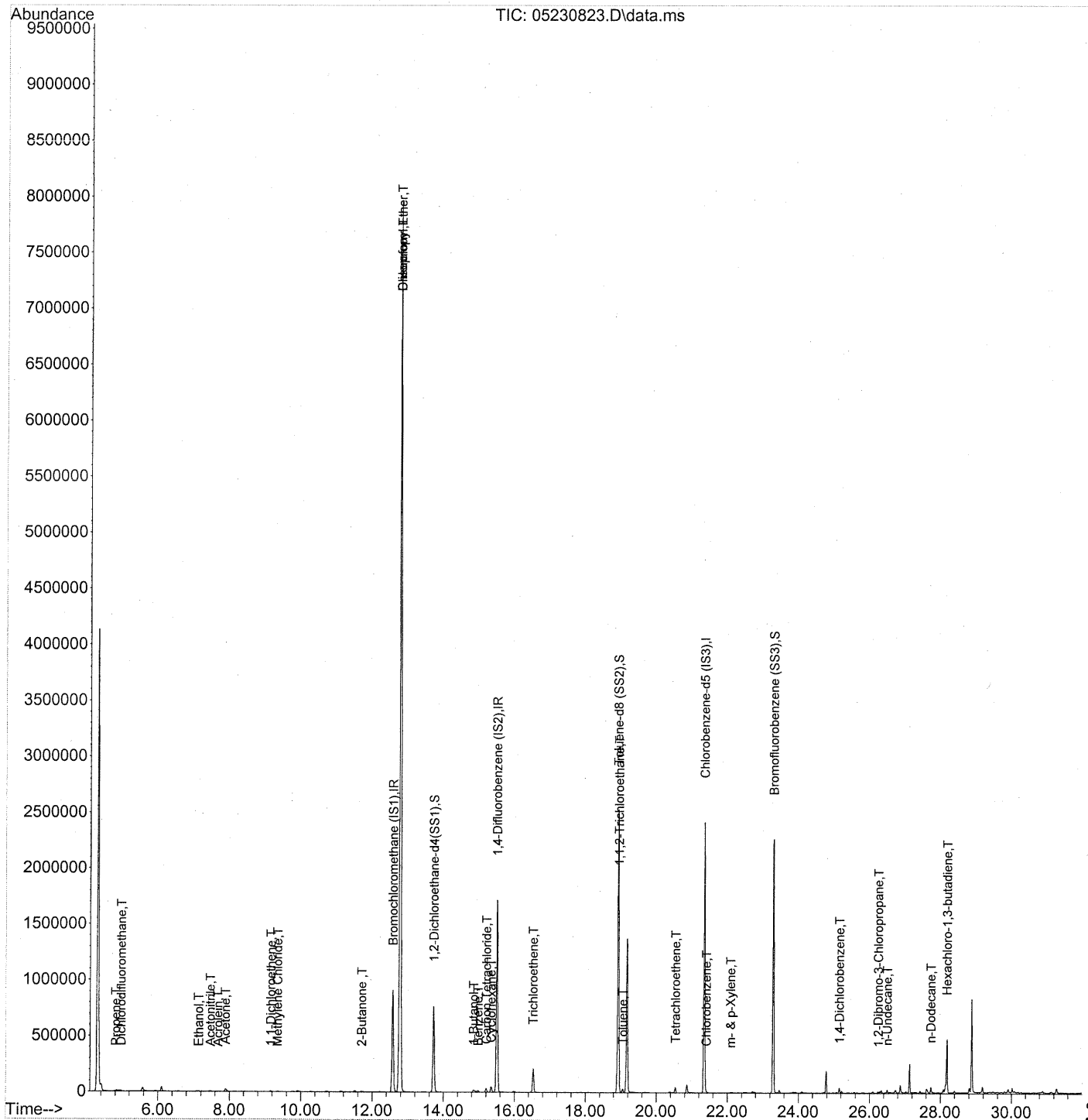
CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	13	1.6	ND	3.0	0.37	
179601-23-1	m,p-Xylenes	ND	13	3.3	ND	3.0	0.77	
75-25-2	Bromoform	ND	13	2.0	ND	1.2	0.19	
100-42-5	Styrene	ND	13	2.0	ND	3.0	0.46	
95-47-6	o-Xylene	ND	13	1.6	ND	3.0	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	1.6	ND	0.37	0.24	
98-82-8	Cumene	ND	13	1.4	ND	2.6	0.29	
103-65-1	n-Propylbenzene	ND	13	1.3	ND	2.6	0.27	
622-96-8	4-Ethyltoluene	ND	13	1.5	ND	2.6	0.30	
108-67-8	1,3,5-Trimethylbenzene	ND	13	1.5	ND	2.6	0.31	
98-83-9	alpha-Methylstyrene	ND	13	1.9	ND	2.7	0.39	
95-63-6	1,2,4-Trimethylbenzene	ND	13	1.8	ND	2.6	0.36	
100-44-7	Benzyl Chloride	ND	2.6	2.2	ND	0.50	0.43	
541-73-1	1,3-Dichlorobenzene	ND	2.6	1.6	ND	0.43	0.27	
106-46-7	1,4-Dichlorobenzene	4.9	2.6	1.4	0.81	0.43	0.24	
135-98-8	sec-Butylbenzene	ND	13	1.5	ND	2.3	0.27	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	13	1.7	ND	2.3	0.30	
95-50-1	1,2-Dichlorobenzene	ND	2.6	1.7	ND	0.43	0.28	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	2.0	ND	1.3	0.20	
120-82-1	1,2,4-Trichlorobenzene	ND	2.6	2.0	ND	0.35	0.26	
91-20-3	Naphthalene	ND	5.1	1.9	ND	0.98	0.36	
87-68-3	Hexachlorobutadiene	79	2.6	2.3	7.4	0.24	0.22	
98-06-6	tert-Butylbenzene	ND	5.1	1.3	ND	0.94	0.23	
104-51-8	n-Butylbenzene	ND	5.1	1.3	ND	0.94	0.23	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 11:14:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 11:14:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	458203	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1987985	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	946143	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.72	65	772477	24.331	ng	0.00
Spiked Amount				25.000		
				Recovery =		97.32% ✓
57) Toluene-d8 (SS2)	18.92	98	2104755	24.770	ng	0.00
Spiked Amount				25.000		
				Recovery =		99.08% ✓
73) Bromofluorobenzene (SS3)	23.29	174	856165	24.777	ng	0.00
Spiked Amount				25.000		
				Recovery =		99.12% ✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.81	42	2336	0.065	ng	# 33
3) Dichlorodifluoromethane	4.97	85	5864	0.088	ng	94
4) Chloromethane	5.30	50	277	N.D.	✓	
5) Freon 114	0.00	135	0	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	0.00	54	0	N.D.	✓	
8) Bromomethane	6.49	94	68	N.D.	✓	
9) Chloroethane	6.84	64	129	N.D.	✓	
10) Ethanol	7.14	45	2498m	0.104	ng	
11) Acetonitrile	7.46	41	5770	0.083	ng	94
12) Acrolein	7.68	56	1117	0.065	ng	# 61
13) Acetone	7.89	58	12716	0.516	ng	# 73
14) Trichlorofluoromethane	8.16	101	2570	N.D.	✓	
15) Isopropanol	8.36	45	2105	N.D.	✓	
16) Acrylonitrile	8.66	53	71	N.D.	✓	
17) 1,1-Dichloroethene	9.16	96	3836	0.152	ng	# 65
18) tert-Butanol	9.29	59	1447	N.D.	✓	
19) Methylene Chloride	9.35	84	1954	0.071	ng	91
20) Allyl Chloride	9.49	41	57	N.D.	✓	
21) Trichlorotrifluoroethane	9.79	151	236	N.D.	✓	
22) Carbon Disulfide	9.77	76	2808	N.D.	✓	
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
24) 1,1-Dichloroethane	11.10	63	212	N.D.	✓	
25) Methyl tert-Butyl Ether	11.22	73	424	N.D.	✓	
26) Vinyl Acetate	0.00	86	0	N.D.	✓	
27) 2-Butanone	11.71	72	3161	0.176	ng	96
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	854020	38.714 ng	MR #	1
30) Ethyl Acetate	12.79	61	82	N.D.	✓	
31) n-Hexane	12.69	57	316	N.D.	✓	

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Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 11:14:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	8171388	195.570	ng	100
34) Tetrahydrofuran	13.41	72	122	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.76	62	74	N.D.	✓	
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.	✓	
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.85	56	24243	0.887	ng	88
41) Benzene	14.98	78	15548	0.149	ng	100
42) Carbon Tetrachloride	15.21	117	26203	0.654	ng	97
43) Cyclohexane	15.34	84	2495	0.062	ng	# 1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	16.20	63	65	N.D.	✓	
46) Bromodichloromethane	16.47	83	1555	N.D.	✓	
47) Trichloroethene	16.53	130	95157	2.980	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	✓	
49) Isooctane	16.61	57	1726	N.D.		
50) Methyl Methacrylate	16.53	100	97	N.D.	✓	
51) n-Heptane	0.00	71	0	N.D.	✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.77	58	54	N.D.	✓	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	184802	7.185	ng ML #	8
58) Toluene	19.06	91	28876	0.250	ng	94
59) 2-Hexanone	19.36	43	1688	N.D.	✓	
60) Dibromochloromethane	0.00	129	0	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.20	43	118	N.D.		
63) n-Octane	20.55	57	459	N.D.	✓	
64) Tetrachloroethene	20.54	166	16702	0.489	ng	96
65) Chlorobenzene	21.41	112	7994	0.103	ng	97
66) Ethylbenzene	21.89	91	2994	N.D.	✓	
67) m- & p-Xylene	22.09	91	4974	0.056	ng	# 24
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	22.57	104	299	N.D.	✓	
70) o-Xylene	22.71	91	4138	N.D.	✓	
71) n-Nonane	22.97	43	183	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.67	83	59	N.D.	✓	
74) Cumene	23.46	105	312	N.D.	✓	
75) alpha-Pinene	23.95	93	66	N.D.		
76) n-Propylbenzene	24.10	91	947	N.D.	✓	
77) 3-Ethyltoluene	24.23	105	1358	N.D.		
78) 4-Ethyltoluene	24.28	105	1110	N.D.	✓	
79) 1,3,5-Trimethylbenzene	24.38	105	654	N.D.	✓	

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 11:14:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

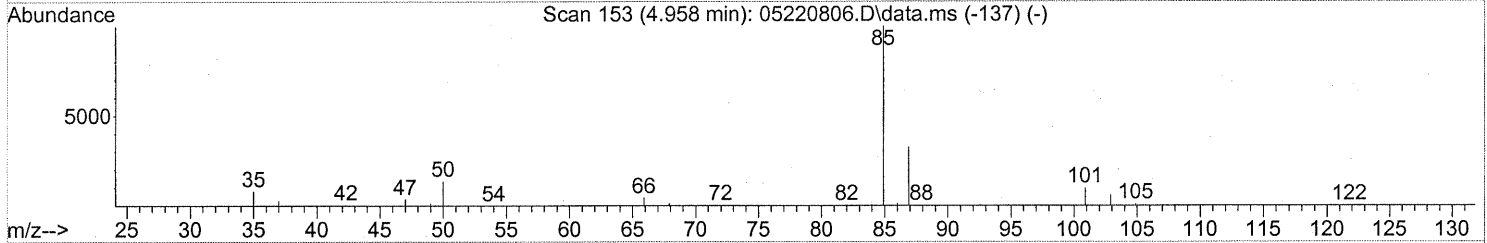
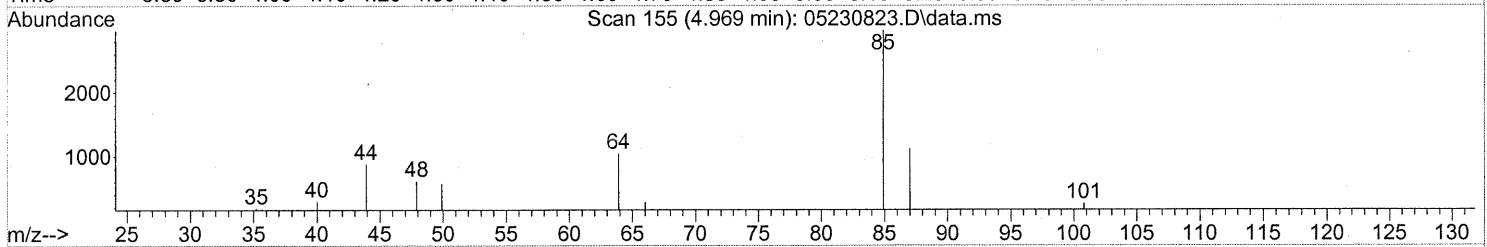
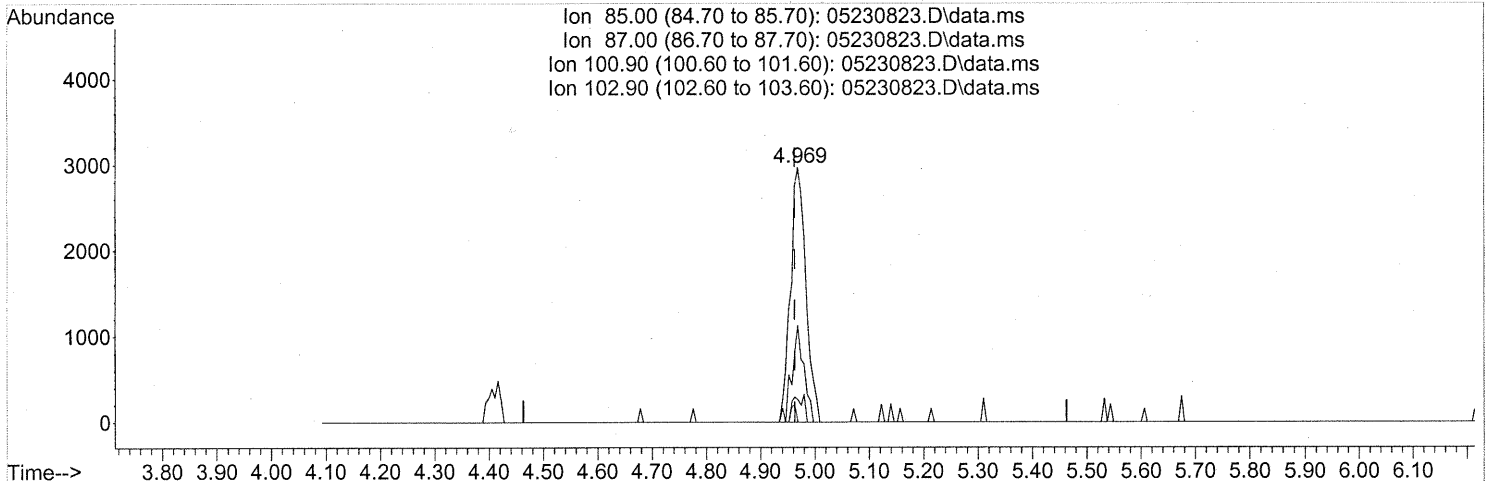
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.77	118	2529	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	1238	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	1540	N.D.	✓	
83) n-Decane	24.98	57	2098	N.D.		
84) Benzyl Chloride	25.17	91	119	N.D.	✓	
85) 1,3-Dichlorobenzene	25.08	146	2830	N.D.	✓	
86) 1,4-Dichlorobenzene	25.15	146	13350	0.190 ng		92
87) sec-Butylbenzene	25.22	105	53	N.D.	✓	
88) p-Isopropyltoluene	25.41	119	448	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.41	105	1304	N.D.		
90) 1,2-Dichlorobenzene	25.57	146	3434	N.D.	✓	
91) d-Limonene	25.58	68	740	N.D.		
92) 1,2-Dibromo-3-Chloropr...	26.25	157	1404	0.066 ng	#	29
93) n-Undecane	26.50	57	8493	0.127 ng		72
94) 1,2,4-Trichlorobenzene	27.64	180	250	N.D.	✓	
95) Naphthalene	27.77	128	5378	N.D.	✓	
96) n-Dodecane	27.73	57	15985	0.240 ng		84
97) Hexachloro-1,3-butadiene	28.19	225	102609	3.054 ng		99

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230823.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 0.09ng

response 5864

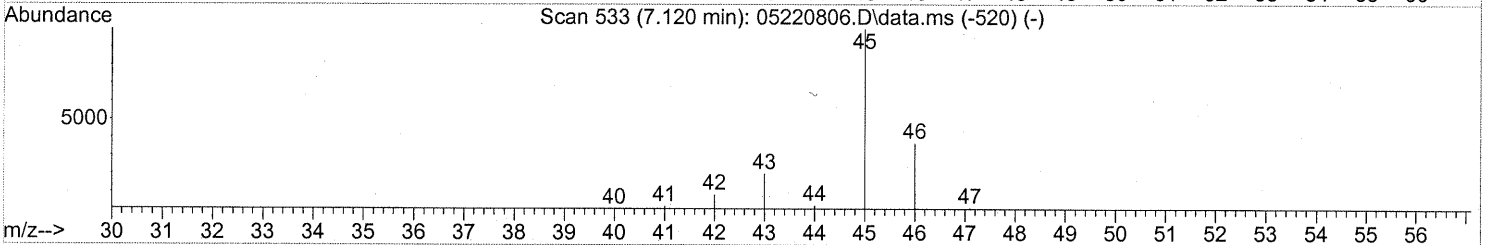
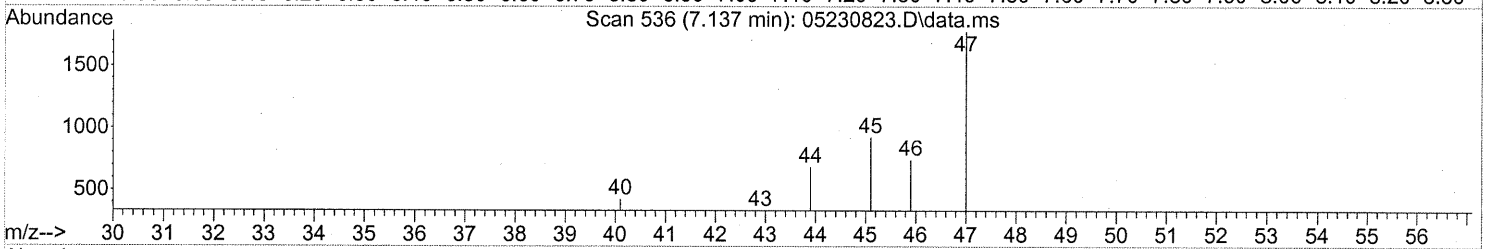
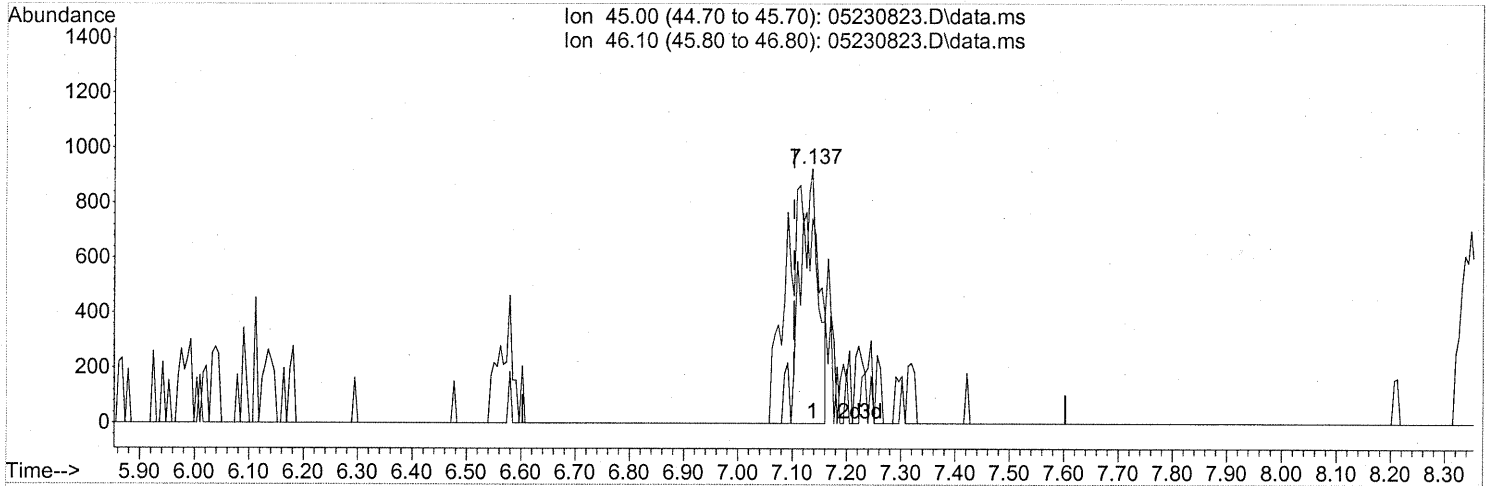
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	29.33
100.90	9.30	7.57
102.90	6.00	2.20

359

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230823.D\data.ms

(10) Ethanol (T)

7.137min (+0.034) 0.09ng

response 2191

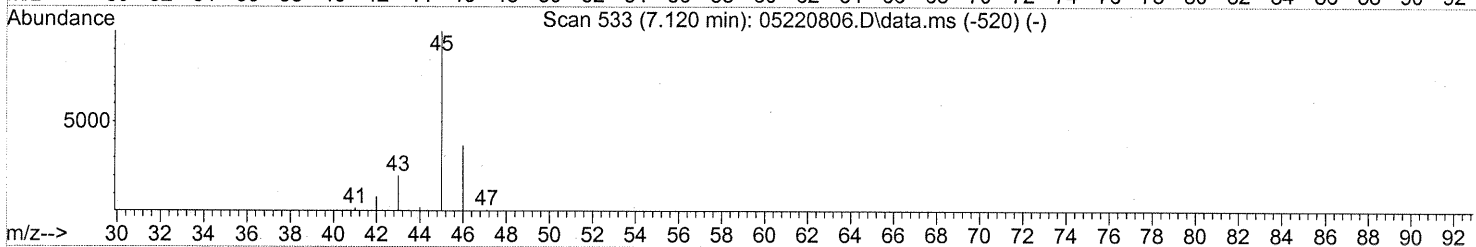
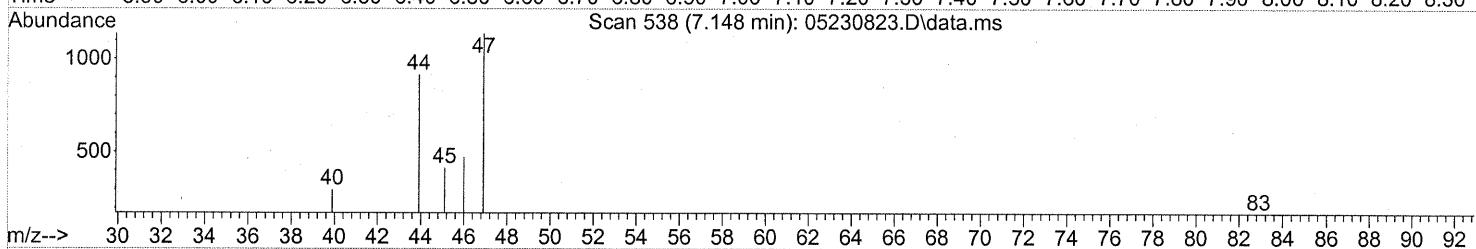
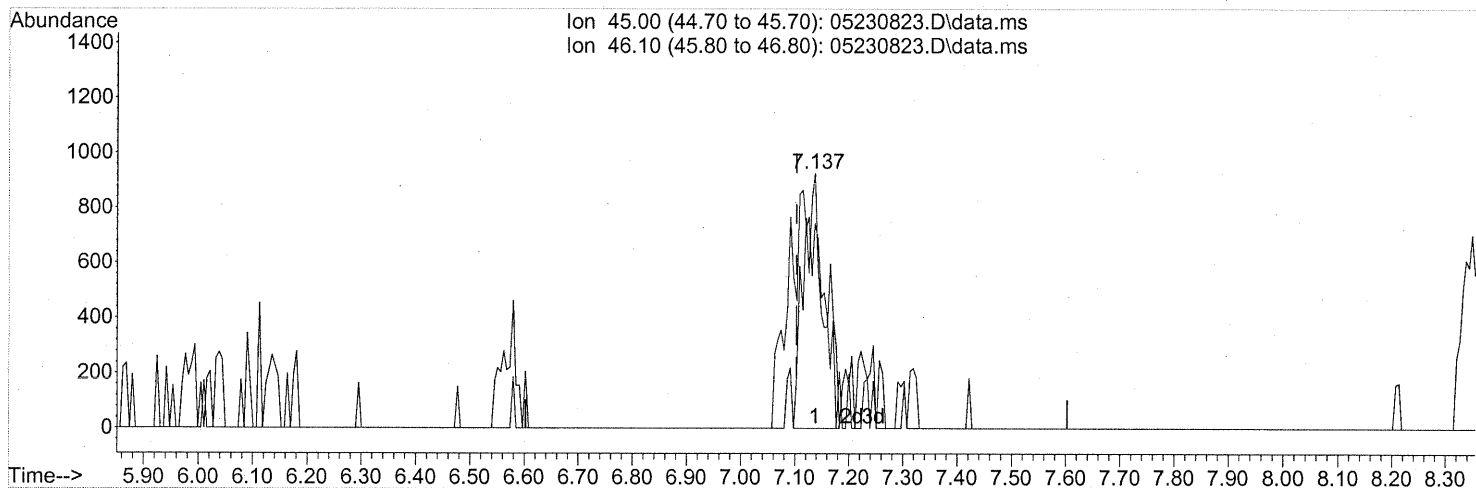
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230823.D\data.ms

(10) Ethanol (T)
 7.137min (+0.034) 0.10ng m
 response 2498

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

int. whole plates

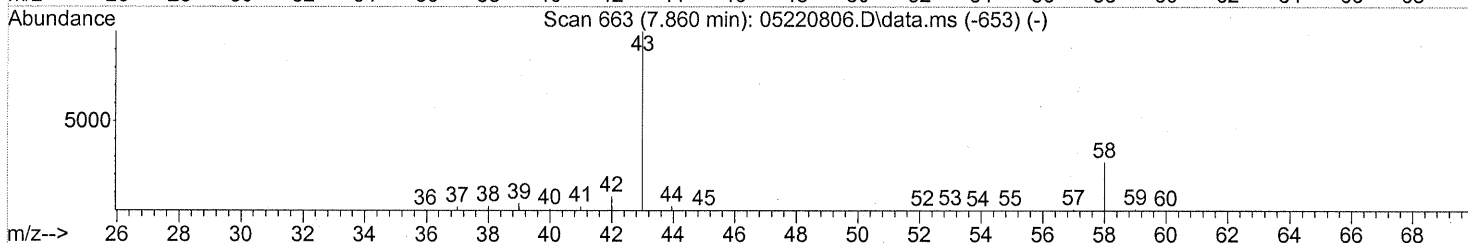
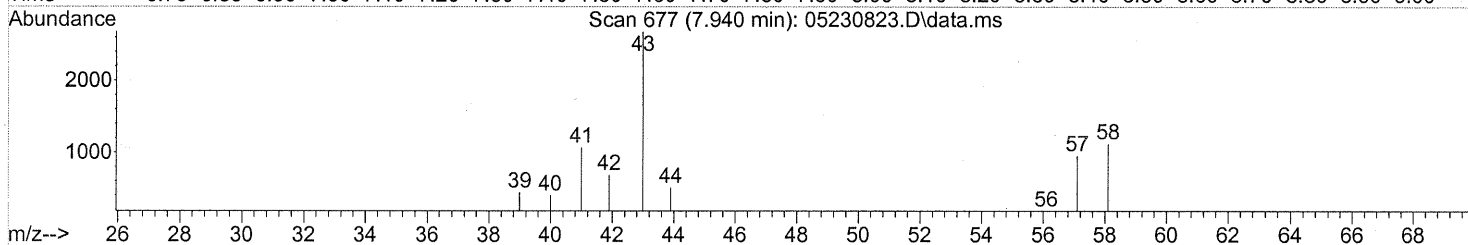
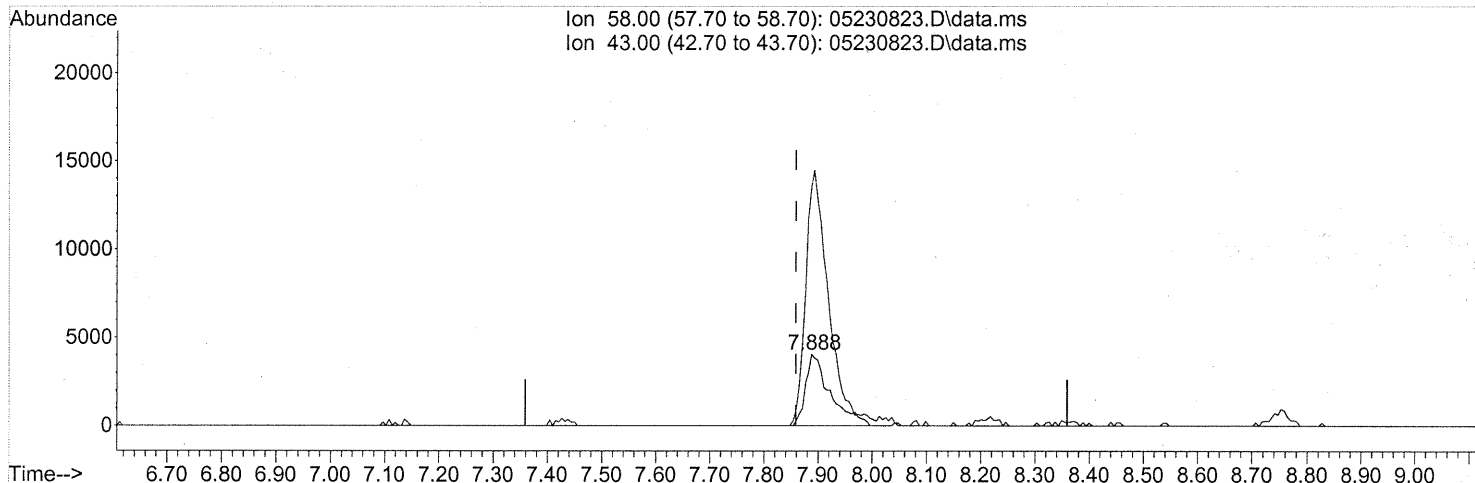
RT 5/27/08

Podolov

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230823.D
Acq On : 24 May 2008 1:05
Operator : RTB
Sample : P0801483-006 (75mL)
Misc : ENSR SG26B-05 (-5.2, 3.6)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05230823.D\data.ms

(13) Acetone (T)

7.888min (+0.028) 0.52ng

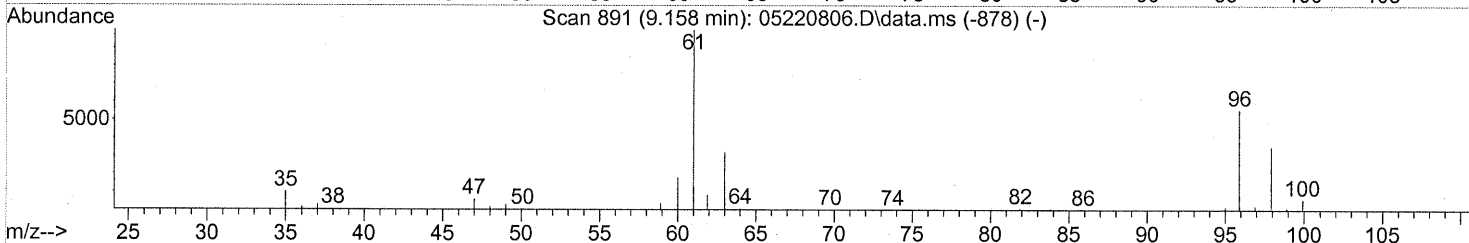
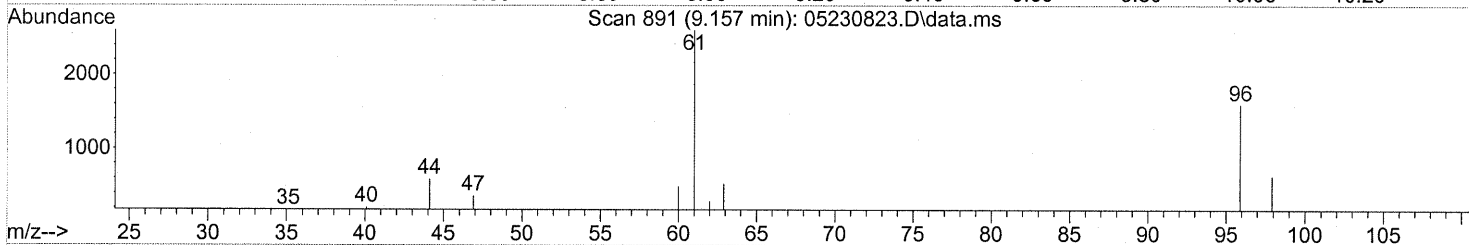
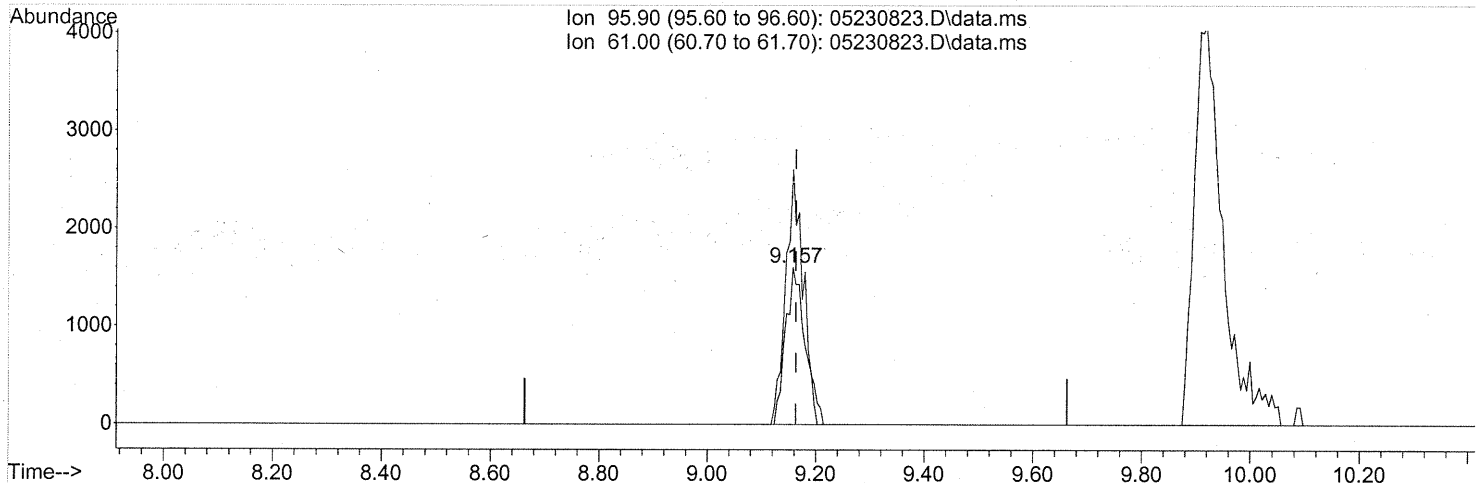
response 12716

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	335.05#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230823.D\data.ms

(17) 1,1-Dichloroethene (T)

9.157min (-0.006) 0.15ng

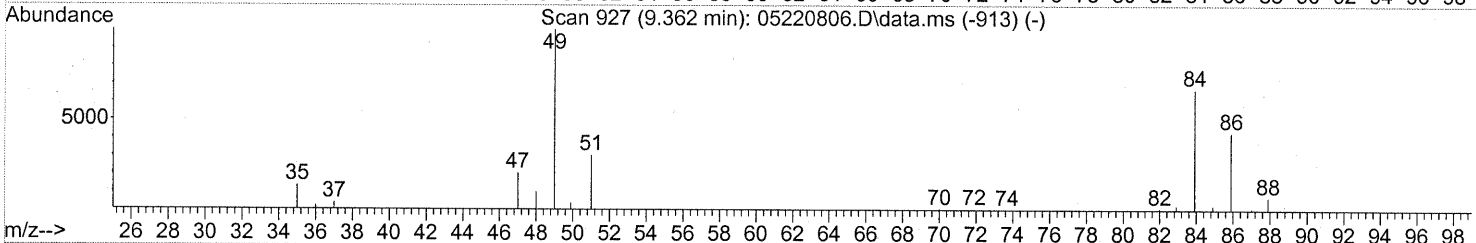
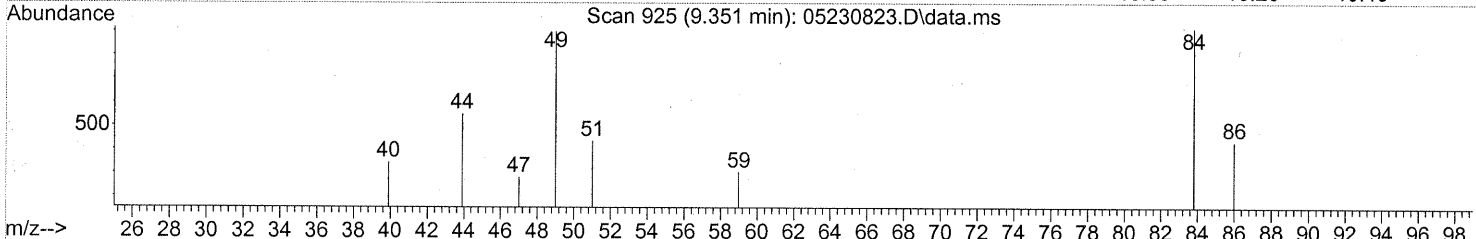
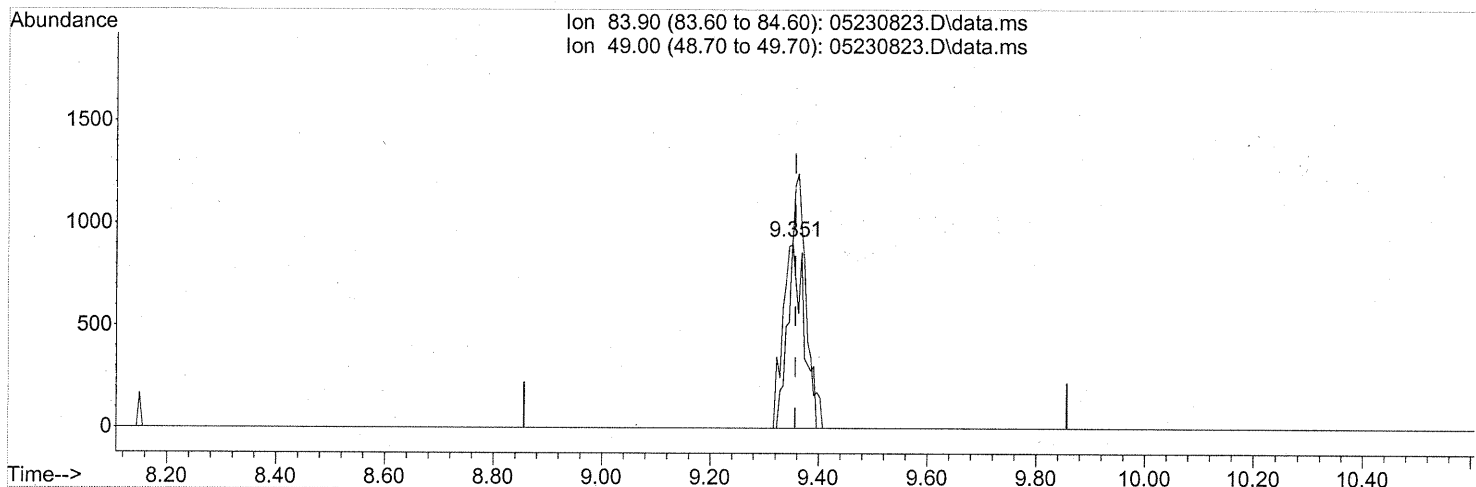
response 3836

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	155.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.351min (-0.006) 0.07ng

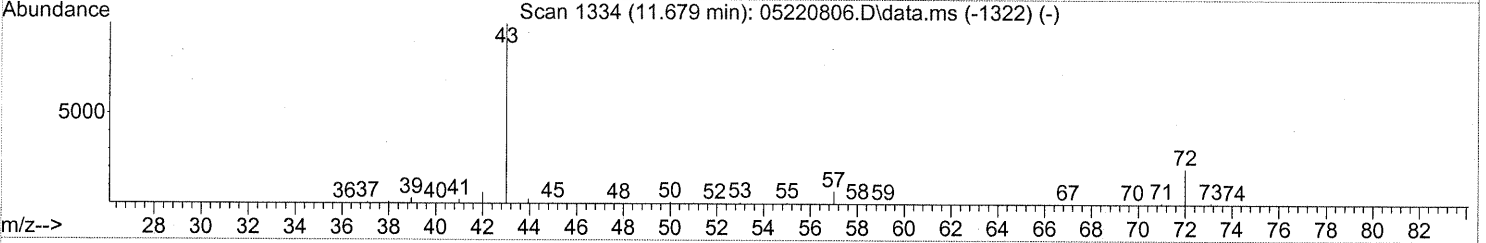
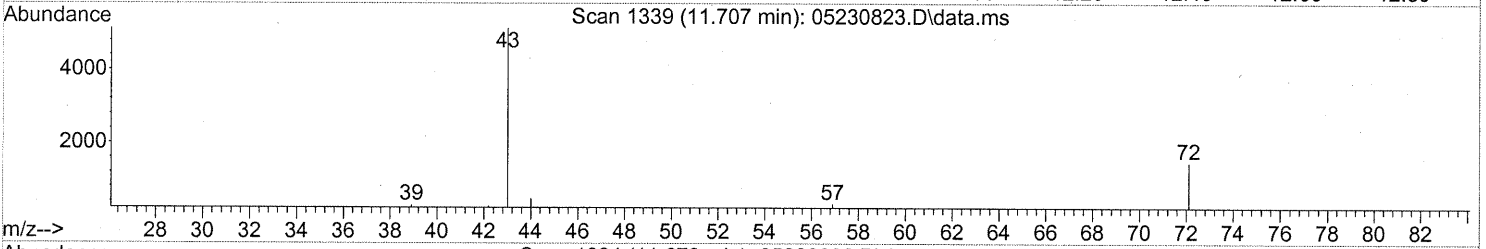
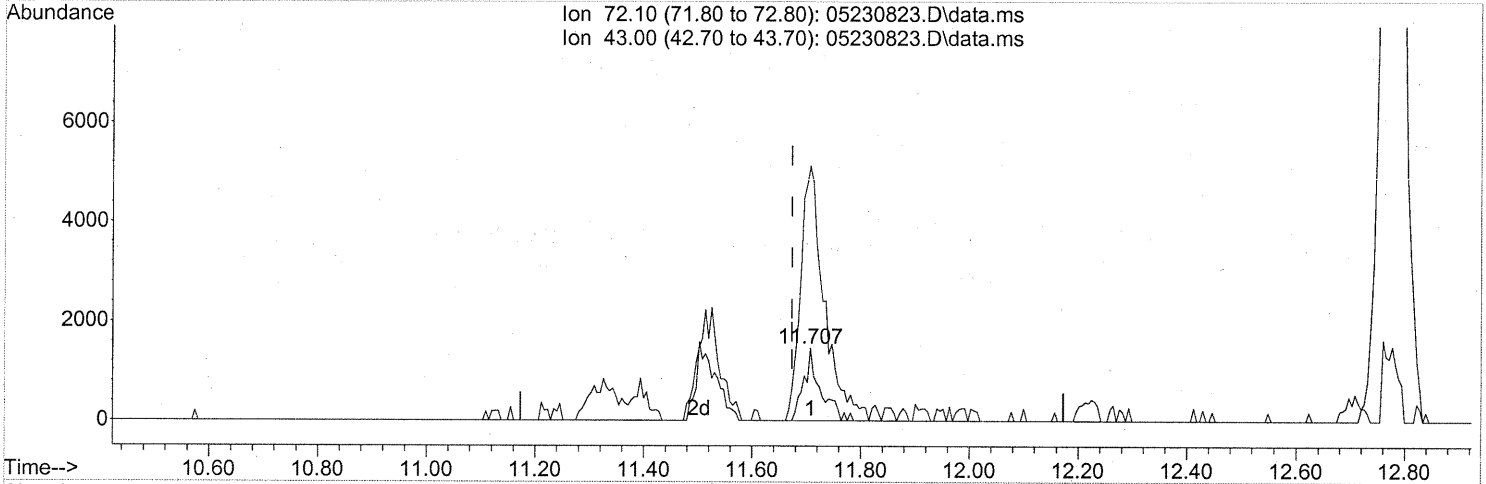
response 1954

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	159.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230823.D\data.ms

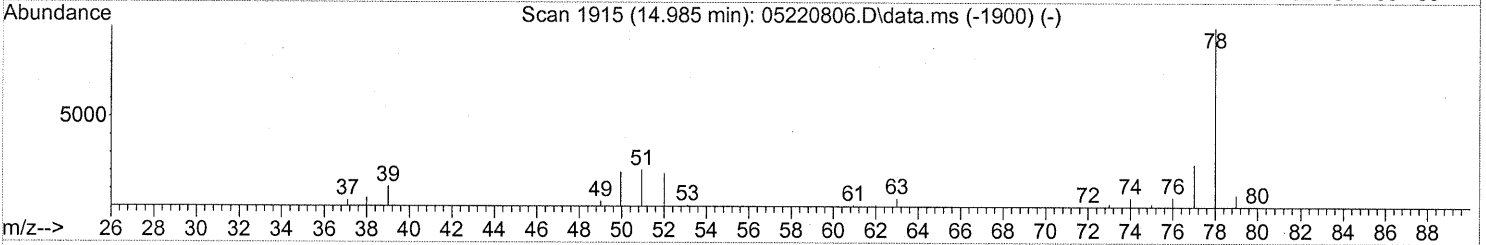
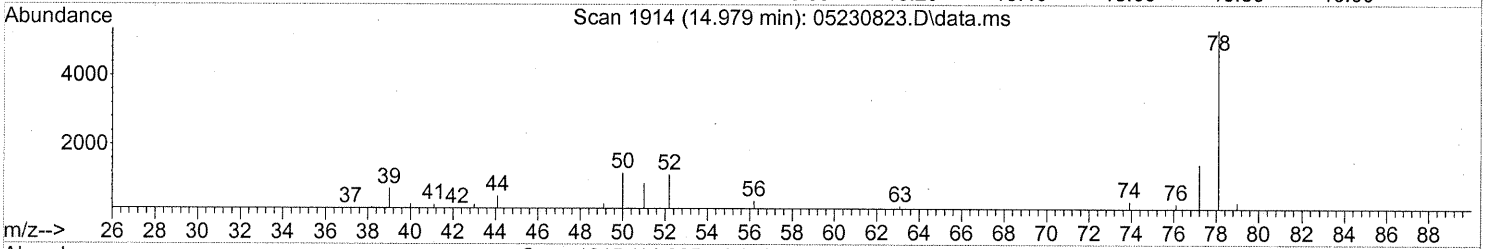
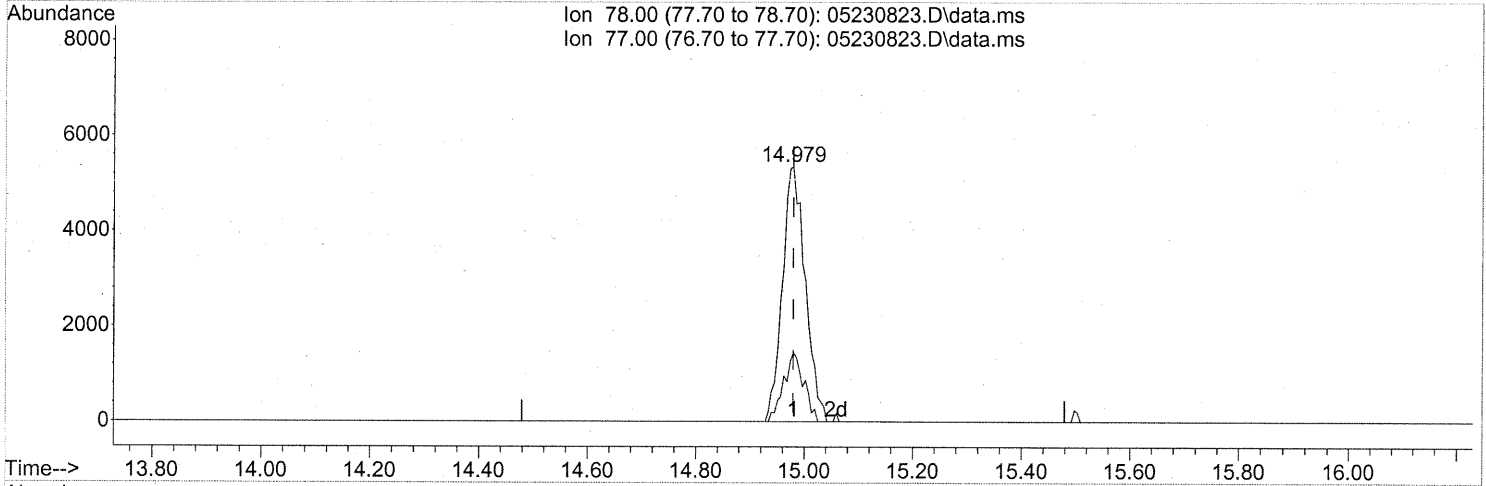
(27) 2-Butanone (T)
 11.707min (+0.034) 0.18ng
 response 3161

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	495.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



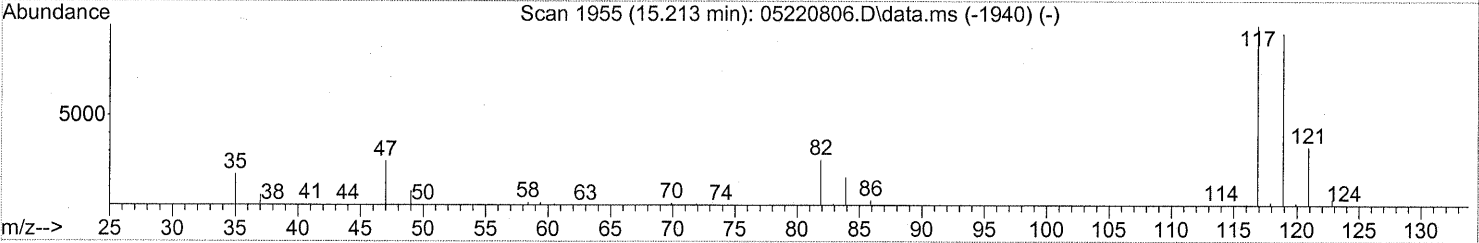
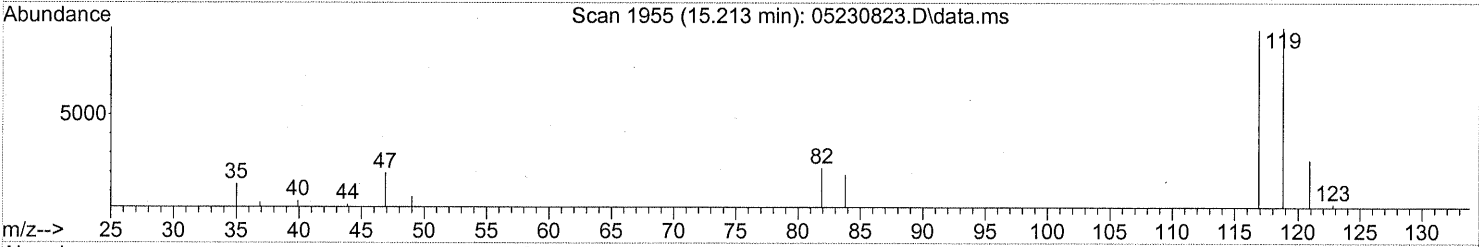
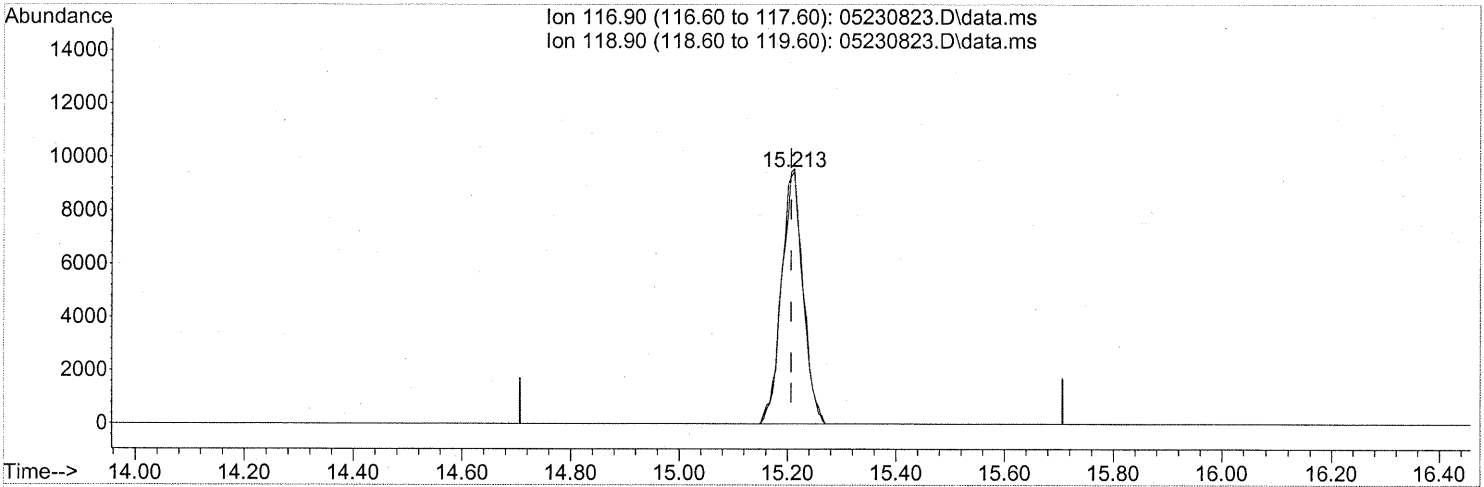
(41) Benzene (T)
 14.979min (-0.000) 0.15ng
 response 15548

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230823.D
Acq On : 24 May 2008 1:05
Operator : RTB
Sample : P0801483-006 (75mL)
Misc : ENSR SG26B-05 (-5.2, 3.6)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05230823.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.65ng

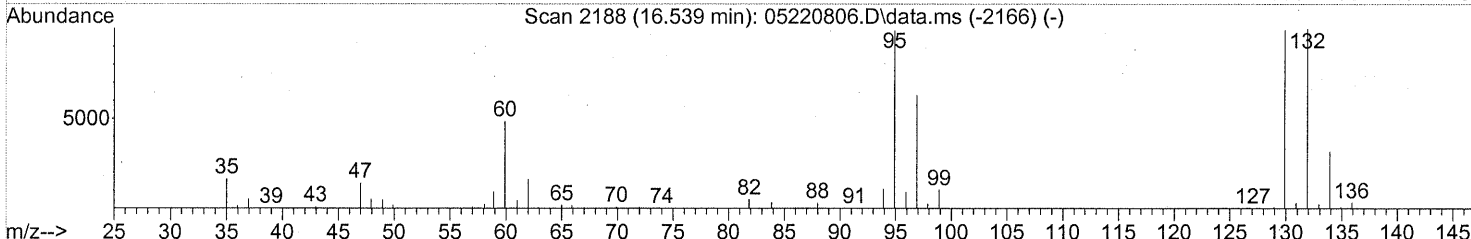
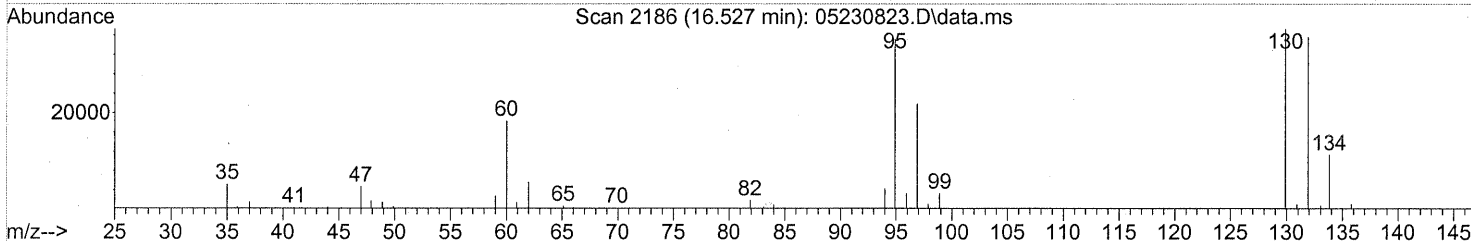
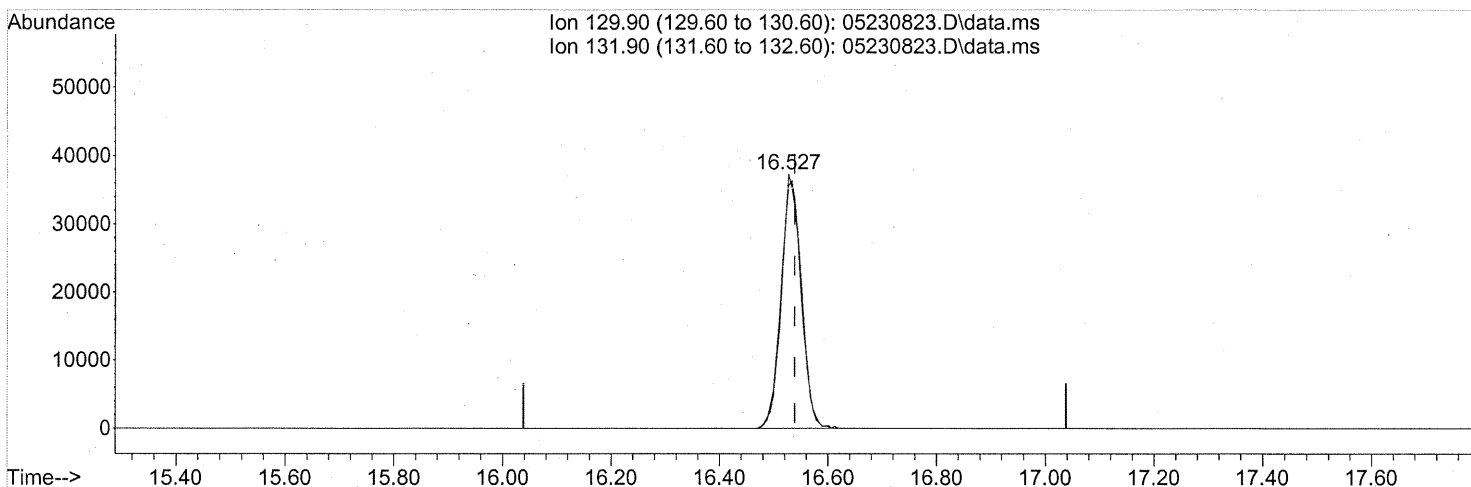
response 26203

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	99.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230823.D\data.ms

(47) Trichloroethene (T)

16.527min (-0.012) 2.98ng

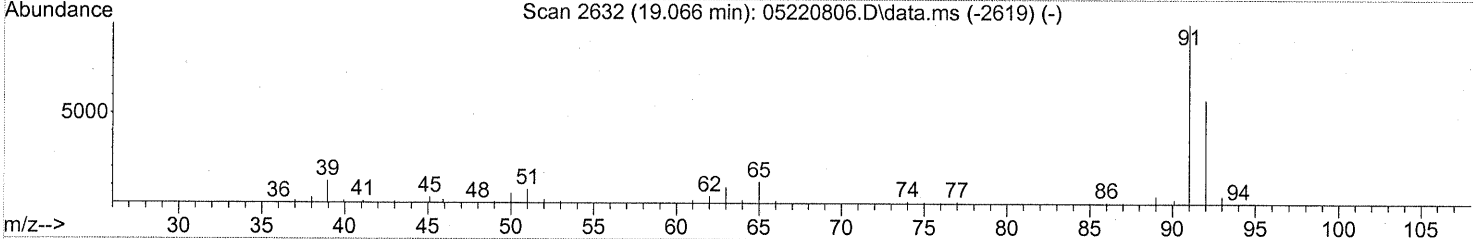
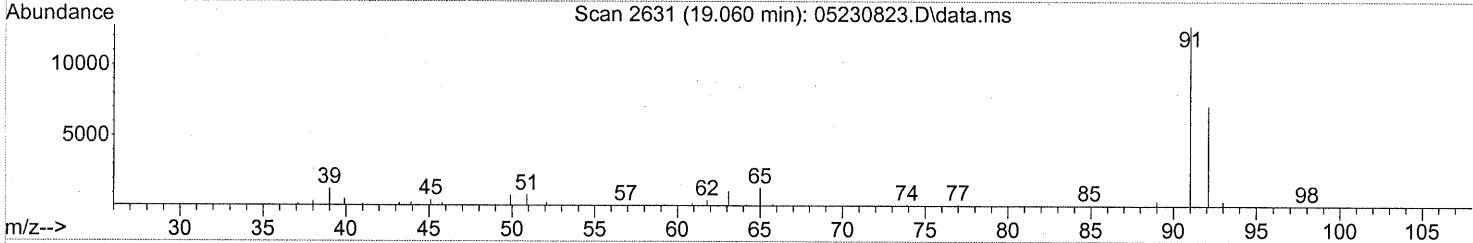
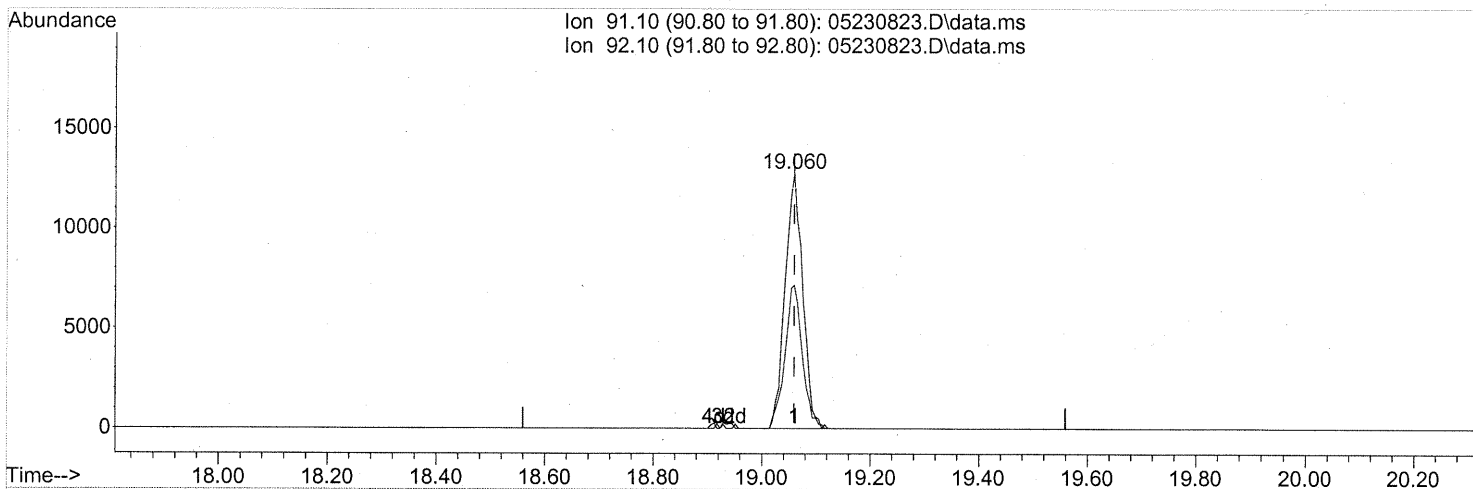
response 95157

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	99.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230823.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.25ng

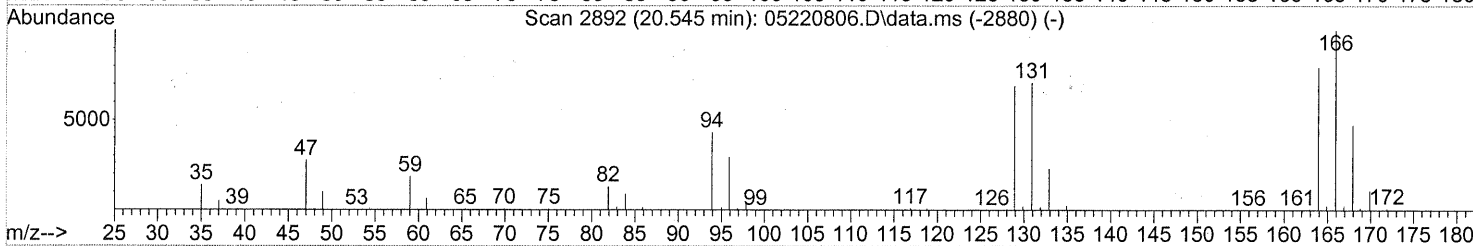
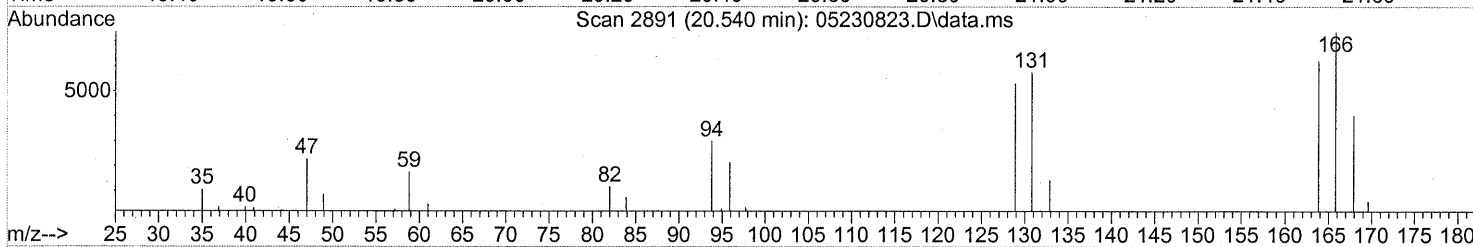
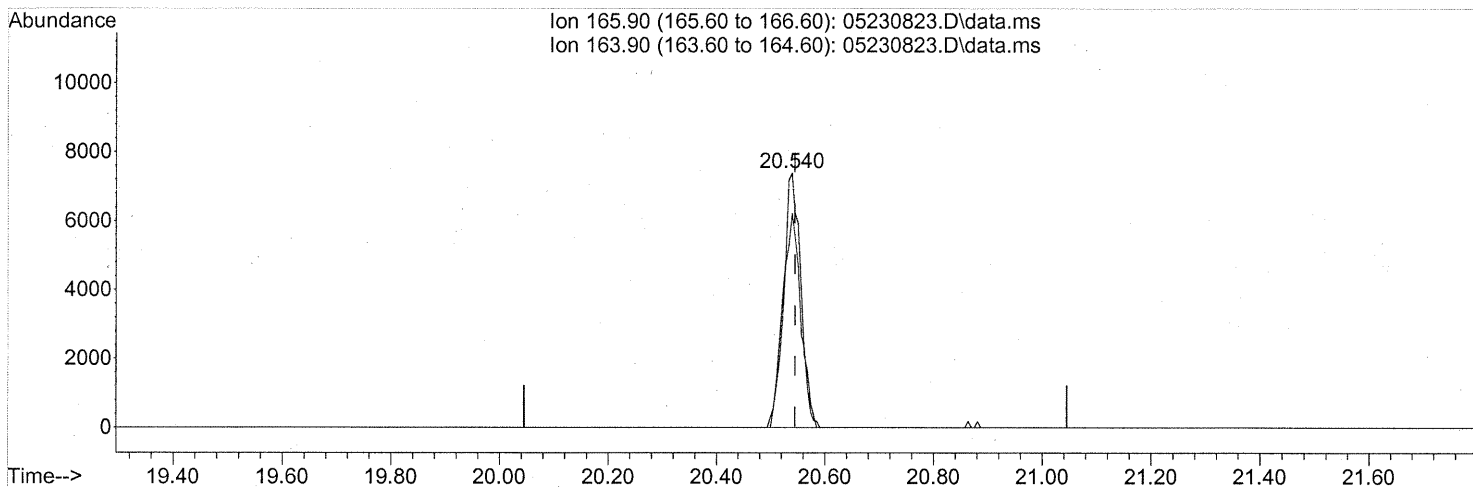
response 28876

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	55.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230823.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 0.49ng

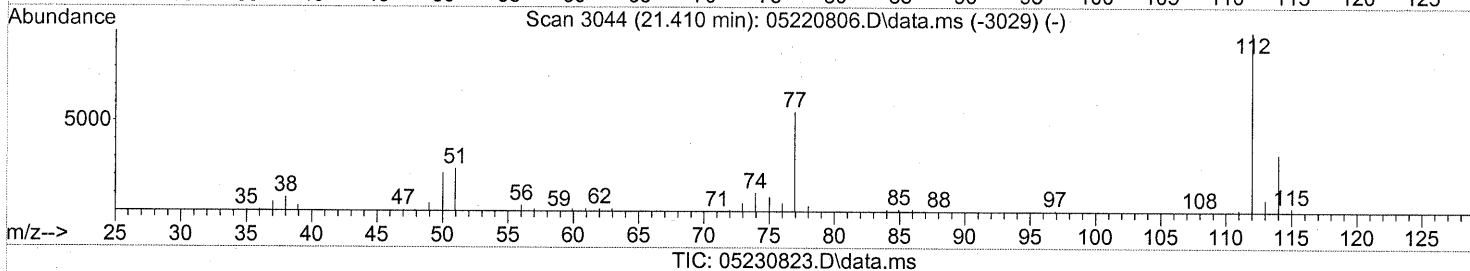
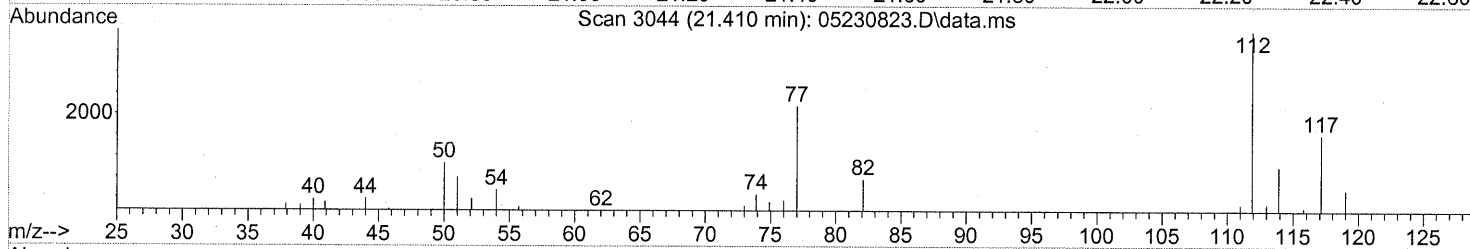
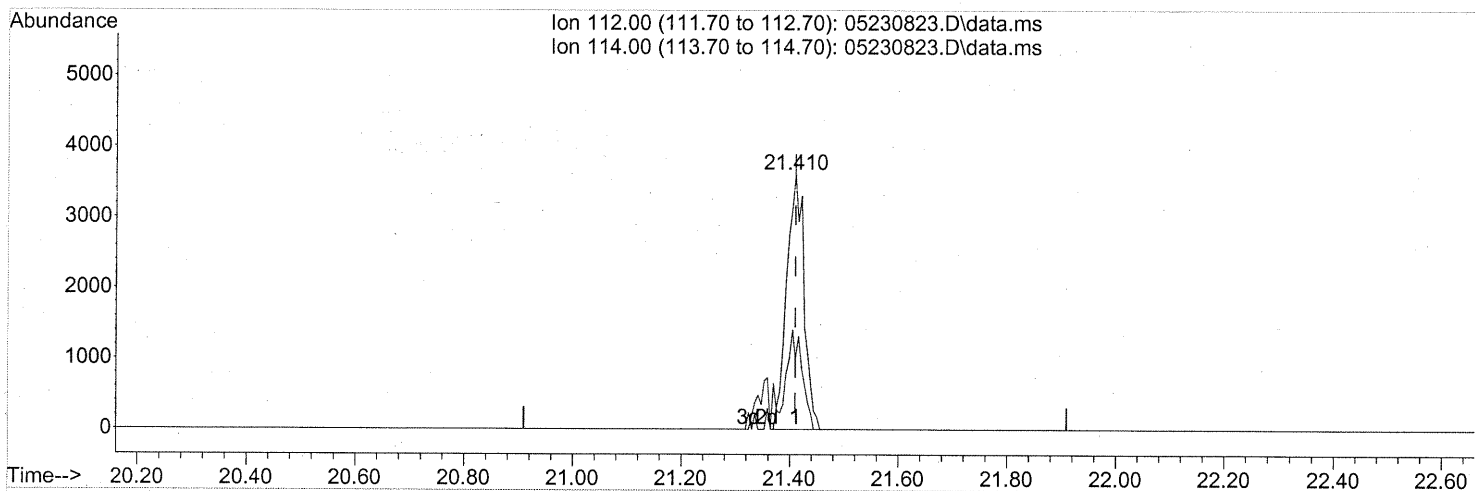
response 16702

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	82.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



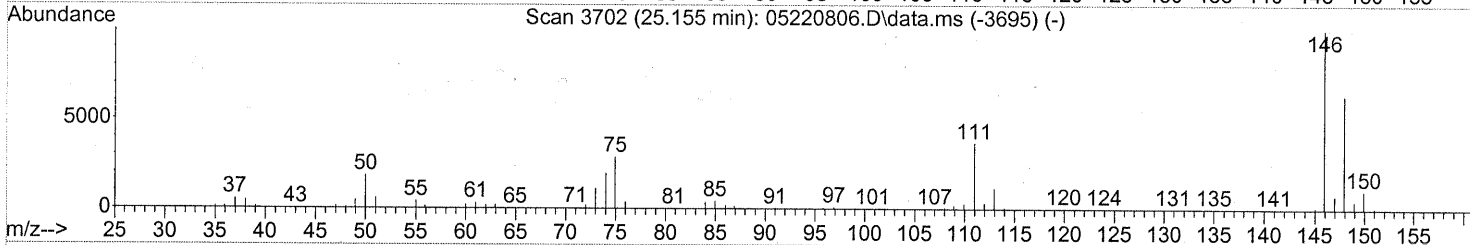
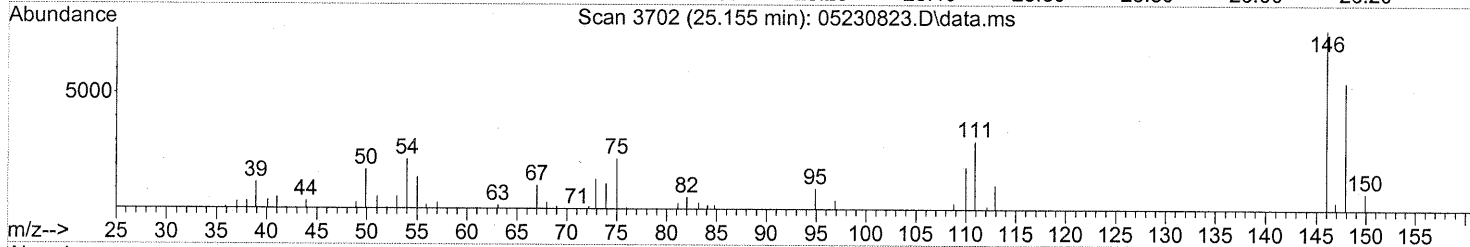
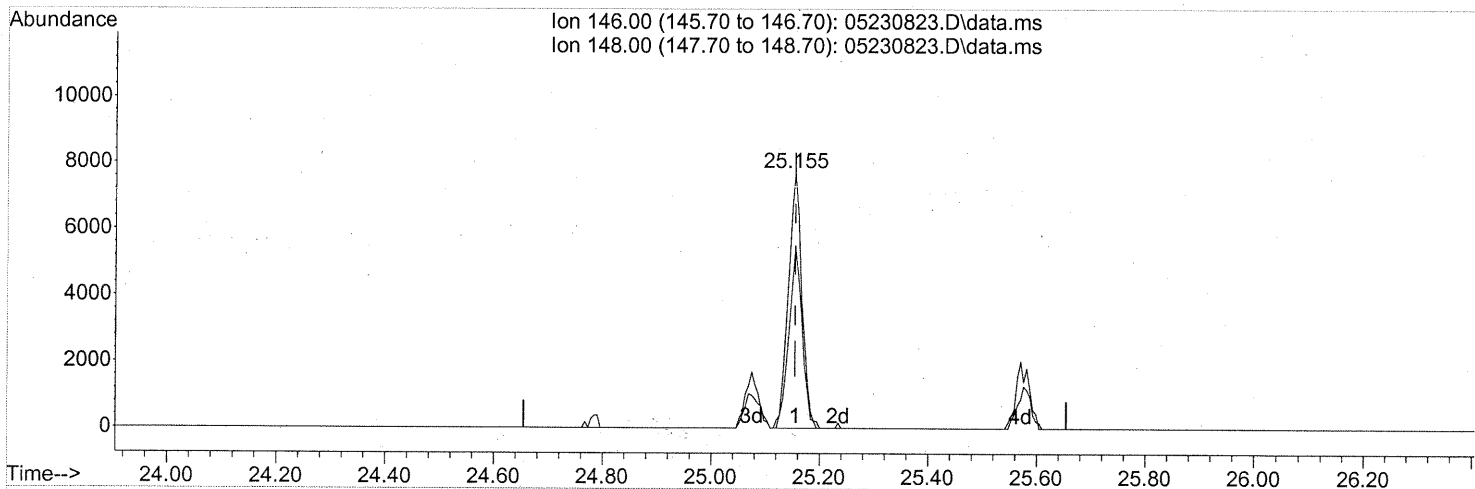
(65) Chlorobenzene (T)
 21.410min (-0.000) 0.10ng
 response 7994

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	33.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 0.19ng

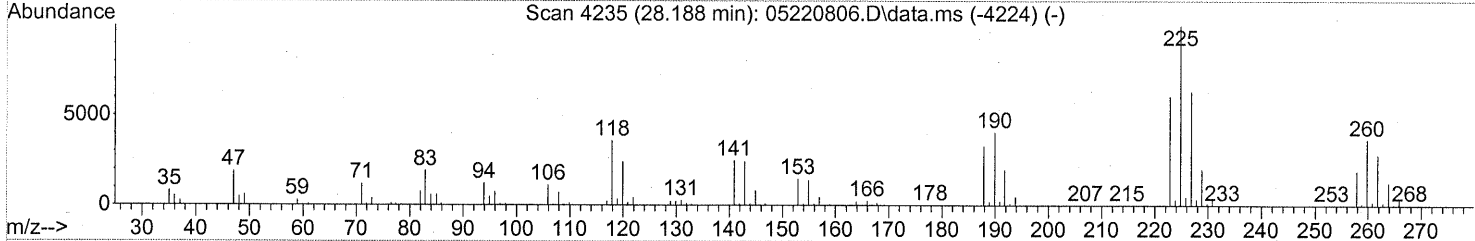
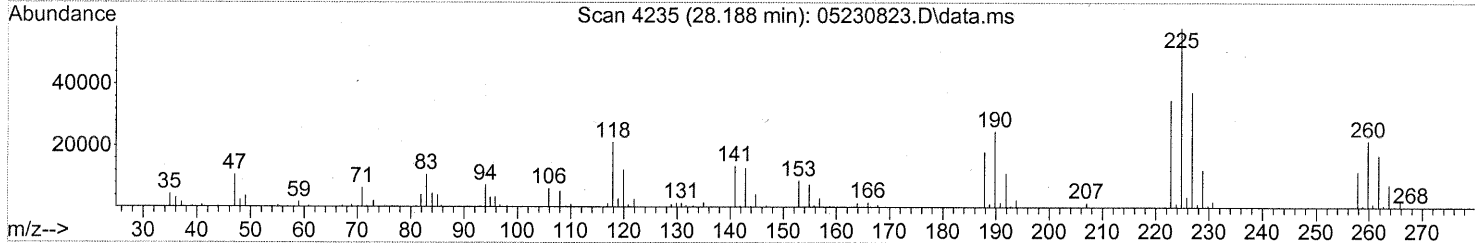
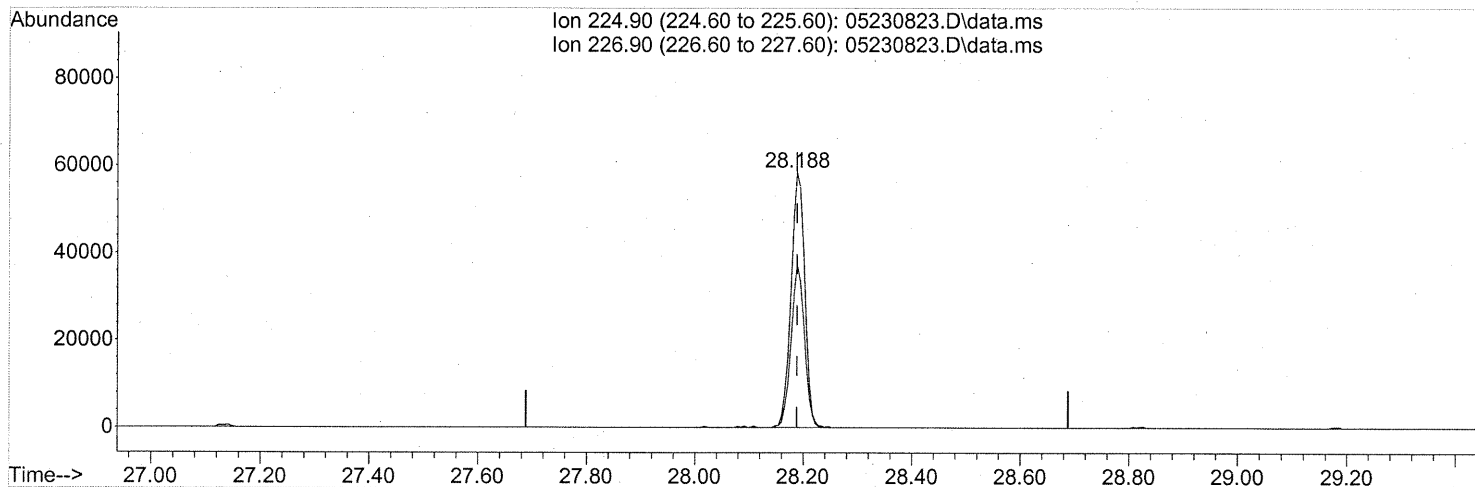
response 13350

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	70.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 08:19:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230823.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

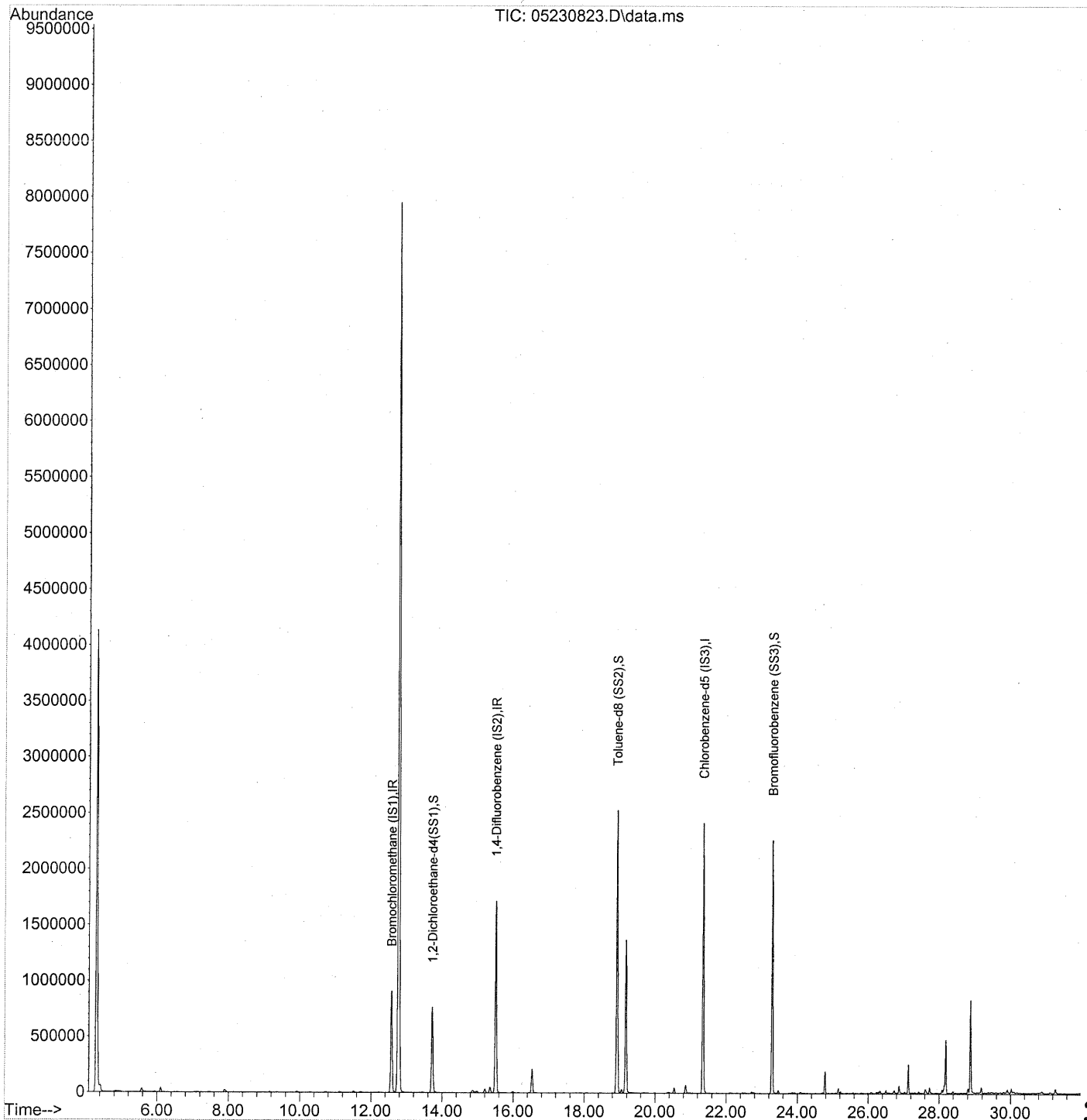
28.188min (-0.000) 3.05ng

response 102609

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	62.26
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230823.D
Acq On : 24 May 2008 1:05
Operator : RTB
Sample : P0801483-006 (75mL)
Misc : ENSR SG26B-05 (-5.2, 3.6)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 17:02:55 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



374

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230823.D
 Acq On : 24 May 2008 1:05
 Operator : RTB
 Sample : P0801483-006 (75mL)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 17:02:55 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

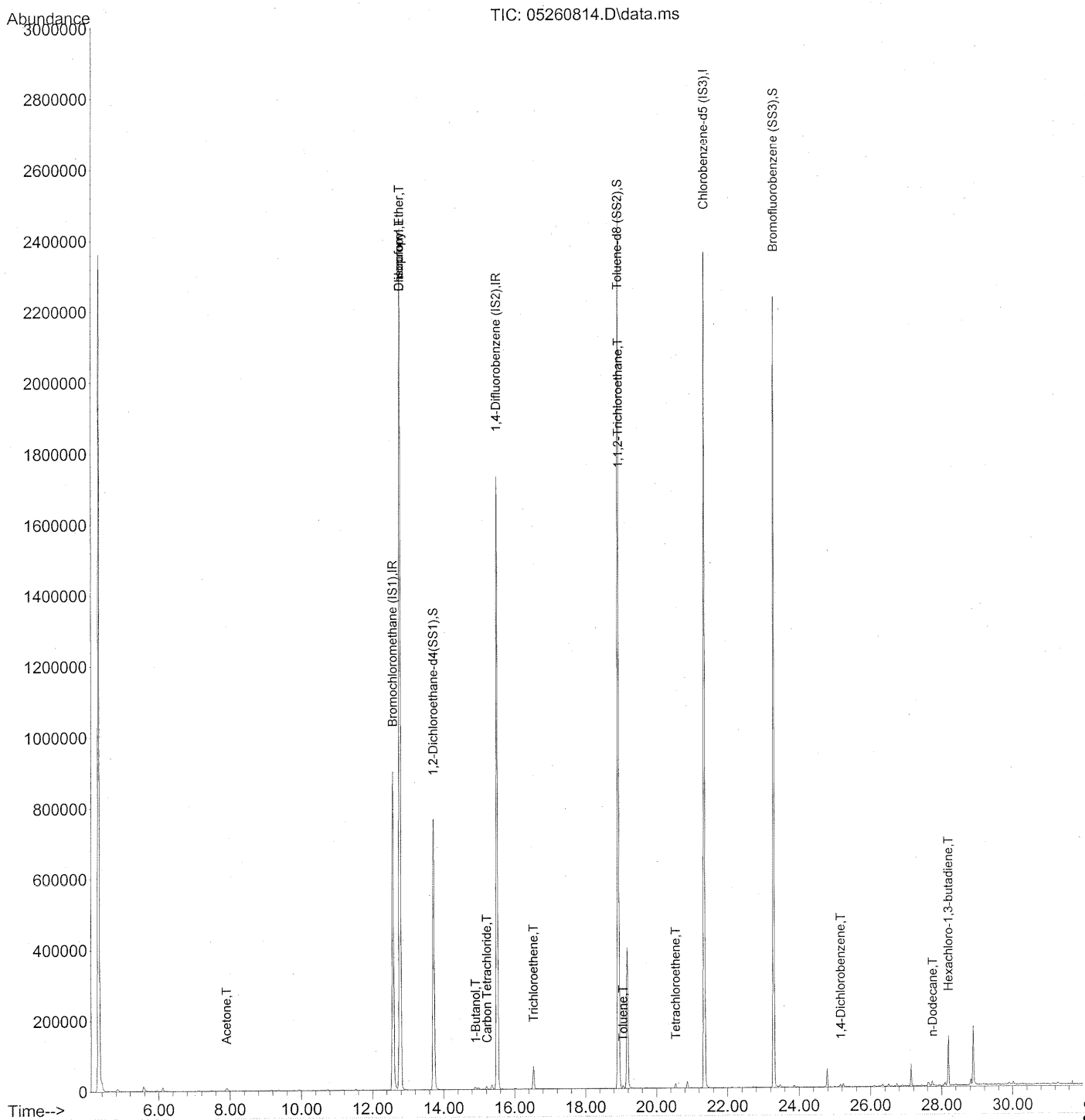
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	458203	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1987985	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	946143	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	772477	24.331	ng	-0.03
Spiked Amount	25.000		Recovery	=	97.32%	
5) Toluene-d8 (SS2)	18.92	98	2104755	24.770	ng	-0.02
Spiked Amount	25.000		Recovery	=	99.08%	
6) Bromofluorobenzene (SS3)	23.29	174	856165	24.777	ng	0.00
Spiked Amount	25.000		Recovery	=	99.12%	
Target Compounds						
7) tert-Butylbenzene	24.88	119	195	N.D.		Qvalue
8) n-Butylbenzene	25.90	91	788	N.D.		

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

6/2/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260814.D
 Acq On : 26 May 2008 20:38
 Operator : WA
 Sample : P0801483-006 Dil (25ml)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 27 06:13:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260814.D
 Acq On : 26 May 2008 20:38
 Operator : WA
 Sample : P0801483-006 Dil (25ml)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 27 06:13:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	461165	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1984701	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	928554	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	792846	24.812	ng	-0.01
Spiked Amount	25.000		Recovery =	99.24%		
57) Toluene-d8 (SS2)	18.92	98	2087402	25.031	ng	0.00
Spiked Amount	25.000		Recovery =	100.12%		
73) Bromofluorobenzene (SS3)	23.29	174	837401	24.694	ng	0.00
Spiked Amount	25.000		Recovery =	98.76%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	765	N.D.		
3) Dichlorodifluoromethane	4.98	85	1855	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.50	94	110	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.10	45	212	N.D.		
11) Acetonitrile	7.48	41	1790	N.D.		
12) Acrolein	7.70	56	356	N.D.		
13) Acetone	7.90	58	5555	0.224	ng	# 79
14) Trichlorofluoromethane	8.15	101	605	N.D.		
15) Isopropanol	8.34	45	546	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.17	96	861	N.D.		
18) tert-Butanol	9.31	59	428	N.D.		
19) Methylene Chloride	9.36	84	1297	N.D.		
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	9.80	151	64	N.D.		
22) Carbon Disulfide	9.76	76	1410	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.10	63	57	N.D.		
25) Methyl tert-Butyl Ether	11.22	73	52	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.72	72	783	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.77	87	253358	11.411	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260814.D
 Acq On : 26 May 2008 20:38
 Operator : WA
 Sample : P0801483-006 Dil (25ml)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 27 06:13:35 2008

Quant Method : J:\MS13\METHODS\R13052208.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu May 22 11:37:04 2008

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.77	83	2500026	59.450	ng	98
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.70	62	499	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.90	56	7267	0.266	ng	83
41) Benzene	14.98	78	4610	N.D.		
42) Carbon Tetrachloride	15.22	117	7390	0.185	ng	96
43) Cyclohexane	15.41	84	59	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.53	83	272	N.D.		
47) Trichloroethene	16.53	130	28039	0.880	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	237	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	181659	7.074	ng	# 8
58) Toluene	19.05	91	8676	0.077	ng	94
59) 2-Hexanone	19.28	43	51	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.54	166	5348	0.159	ng	96
65) Chlorobenzene	21.41	112	2731	N.D.		
66) Ethylbenzene	21.89	91	961	N.D.		
67) m- & p-Xylene	22.11	91	1110	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.59	104	62	N.D.		
70) o-Xylene	22.72	91	1442	N.D.		
71) n-Nonane	22.99	43	64	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.29	105	2005	N.D.		
75) alpha-Pinene	24.23	93	72	N.D.		
76) n-Propylbenzene	24.11	91	219	N.D.		
77) 3-Ethyltoluene	24.24	105	418	N.D.		
78) 4-Ethyltoluene	24.28	105	428	N.D.		
79) 1,3,5-Trimethylbenzene	24.37	105	52	N.D.		

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260814.D
 Acq On : 26 May 2008 20:38
 Operator : WA
 Sample : P0801483-006 Dil (25ml)
 Misc : ENSR SG26B-05 (-5.2, 3.6)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 27 06:13:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

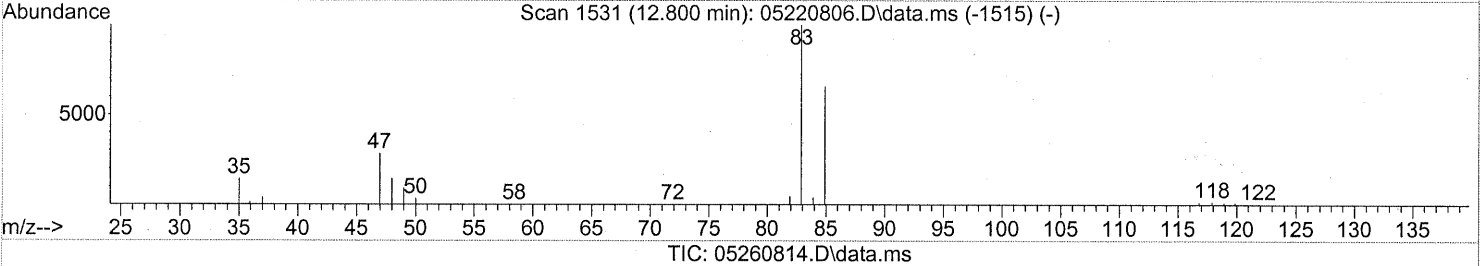
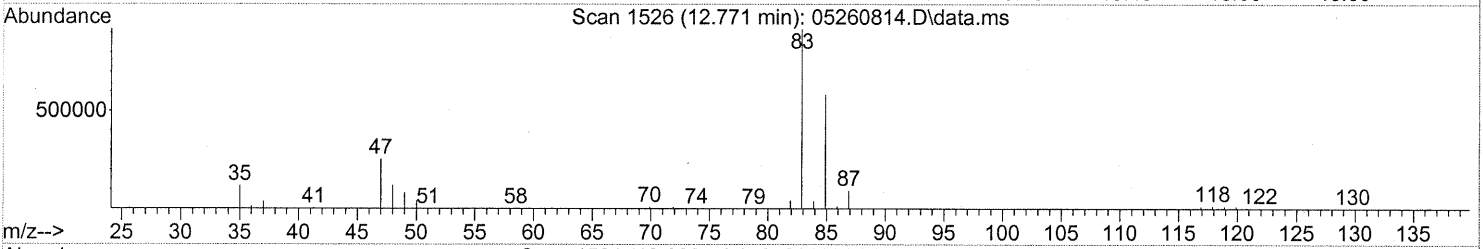
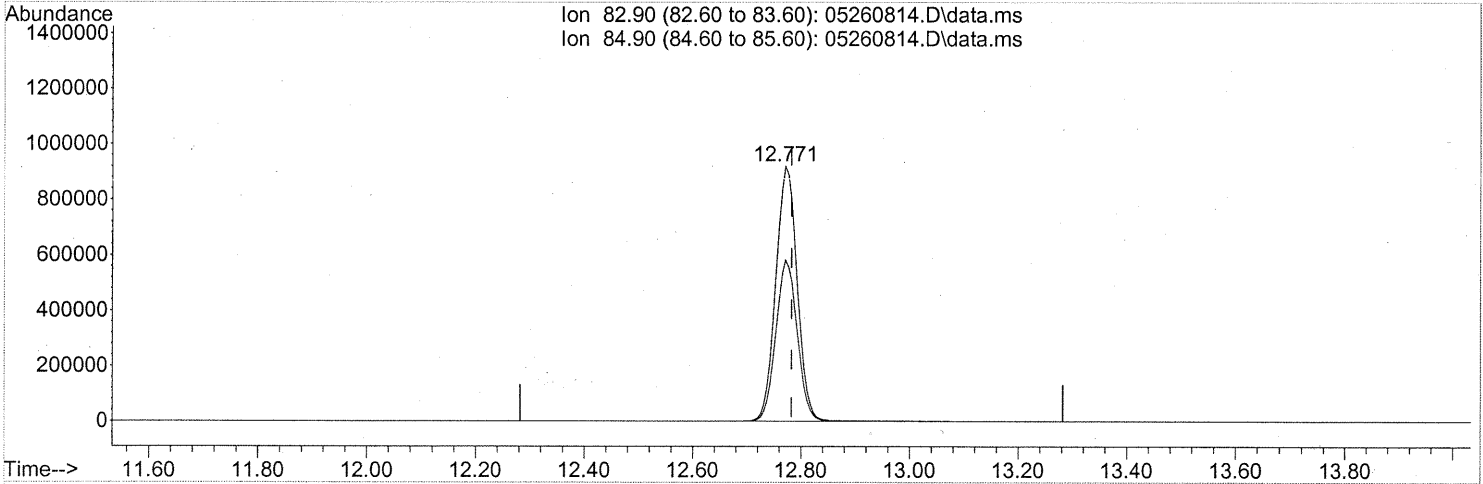
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.79	118	1265	N.D.	
81) 2-Ethyltoluene	24.61	105	308	N.D.	
82) 1,2,4-Trimethylbenzene	24.89	105	454	N.D.	
83) n-Decane	24.99	57	623	N.D.	
84) Benzyl Chloride	0.00	91	0	N.D.	
85) 1,3-Dichlorobenzene	25.08	146	1000	N.D.	
86) 1,4-Dichlorobenzene	25.16	146	4162	0.060 ng	90
87) sec-Butylbenzene	25.41	105	340	N.D.	
88) p-Isopropyltoluene	0.00	119	0	N.D.	
89) 1,2,3-Trimethylbenzene	25.41	105	340	N.D.	
90) 1,2-Dichlorobenzene	25.58	146	1245	N.D.	
91) d-Limonene	25.56	68	70	N.D.	
92) 1,2-Dibromo-3-Chloropr...	26.25	157	159	N.D.	
93) n-Undecane	26.50	57	2845	N.D.	
94) 1,2,4-Trichlorobenzene	27.63	180	609	N.D.	
95) Naphthalene	27.78	128	2508	N.D.	
96) n-Dodecane	27.74	57	4304	0.066 ng	87
97) Hexachloro-1,3-butadiene	28.19	225	30394	0.922 ng	100

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260814.D
Acq On : 26 May 2008 20:38
Operator : WA
Sample : P0801483-006 Dil (25ml)
Misc : ENSR SG26B-05 (-5.2, 3.6)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 27 06:13:35 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(32) Chloroform (T)
12.771min (-0.011) 59.45ng
response 2500026

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.23
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG26B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00621

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/26/08
 Volume(s) Analyzed: 0.20 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -5.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	4.9	0.49	0.42	0.98	0.098	J
74-87-3	Chloromethane	ND	0.97	0.49	ND	0.47	0.23	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	4.9	0.49	ND	0.69	0.069	
75-01-4	Vinyl Chloride	ND	0.97	0.49	ND	0.38	0.19	
74-83-9	Bromomethane	ND	0.97	0.49	ND	0.25	0.12	
75-00-3	Chloroethane	ND	0.97	0.49	ND	0.37	0.18	
64-17-5	Ethanol	3.5	49	0.49	1.8	26	0.26	J
67-64-1	Acetone	11	49	0.71	4.7	20	0.30	J, B
75-69-4	Trichlorofluoromethane	1.1	0.97	0.49	0.20	0.17	0.086	
107-13-1	Acrylonitrile	ND	4.9	0.68	ND	2.2	0.31	
75-35-4	1,1-Dichloroethene	3.1	0.97	0.49	0.79	0.24	0.12	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	4.9	0.72	ND	1.6	0.24	
75-09-2	Methylene Chloride	0.98	4.9	0.49	0.28	1.4	0.14	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.97	0.49	ND	0.31	0.16	
76-13-1	Trichlorotrifluoroethane	ND	0.97	0.54	ND	0.13	0.071	
75-15-0	Carbon Disulfide	ND	4.9	1.2	ND	1.6	0.37	
156-60-5	trans-1,2-Dichloroethene	ND	0.97	0.49	ND	0.24	0.12	
75-34-3	1,1-Dichloroethane	ND	0.97	0.49	ND	0.24	0.12	
1634-04-4	Methyl tert-Butyl Ether	ND	0.97	0.49	ND	0.27	0.13	
108-05-4	Vinyl Acetate	2.2	49	1.6	0.63	14	0.44	J
78-93-3	2-Butanone (MEK)	3.7	4.9	0.49	1.3	1.6	0.16	J
156-59-2	cis-1,2-Dichloroethene	ND	0.97	0.49	ND	0.24	0.12	
108-20-3	Diisopropyl Ether	ND	4.9	0.57	ND	1.2	0.14	
67-66-3	Chloroform	4,500	0.97	0.57	930	0.20	0.12	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: WA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR

Client Sample ID: SG26B-05D

Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

CAS Sample ID: P0801483-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: SC00621

Date Collected: 5/16/08

Date Received: 5/20/08

Date Analyzed: 5/26/08

Volume(s) Analyzed: 0.20 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -5.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	4.9	0.49	ND	1.2	0.12	
107-06-2	1,2-Dichloroethane	ND	0.97	0.49	ND	0.24	0.12	
71-55-6	1,1,1-Trichloroethane	ND	0.97	0.49	ND	0.18	0.089	
71-43-2	Benzene	2.6	0.97	0.49	0.82	0.30	0.15	
56-23-5	Carbon Tetrachloride	16	0.97	0.49	2.5	0.15	0.077	
994-05-8	tert-Amyl Methyl Ether	ND	4.9	0.49	ND	1.2	0.12	
78-87-5	1,2-Dichloropropane	ND	0.97	0.49	ND	0.21	0.10	
75-27-4	Bromodichloromethane	1.1	0.97	0.49	0.17	0.14	0.072	
79-01-6	Trichloroethene	76	0.97	0.49	14	0.18	0.090	
123-91-1	1,4-Dioxane	ND	4.9	0.59	ND	1.3	0.16	
80-62-6	Methyl Methacrylate	ND	4.9	0.73	ND	1.2	0.18	
142-82-5	n-Heptane	ND	4.9	0.62	ND	1.2	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	0.50	ND	1.1	0.11	
108-10-1	4-Methyl-2-pentanone	ND	4.9	0.54	ND	1.2	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	0.61	ND	1.1	0.13	
79-00-5	1,1,2-Trichloroethane	ND	0.97	0.49	ND	0.18	0.089	
108-88-3	Toluene	10	4.9	0.49	2.8	1.3	0.13	
591-78-6	2-Hexanone	ND	4.9	0.74	ND	1.2	0.18	
124-48-1	Dibromochloromethane	ND	0.97	0.66	ND	0.11	0.077	
106-93-4	1,2-Dibromoethane	ND	0.97	0.52	ND	0.13	0.068	
111-65-9	n-Octane	ND	4.9	0.49	ND	1.0	0.10	
127-18-4	Tetrachloroethene	13	0.97	0.49	1.9	0.14	0.072	
108-90-7	Chlorobenzene	2.6	0.97	0.49	0.57	0.21	0.11	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG26B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00621

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/26/08
 Volume(s) Analyzed: 0.20 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -5.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	4.9	0.60	ND	1.1	0.14	
179601-23-1	m,p-Xylenes	1.6	4.9	1.3	0.36	1.1	0.29	J
75-25-2	Bromoform	ND	4.9	0.74	ND	0.47	0.071	
100-42-5	Styrene	ND	4.9	0.74	ND	1.1	0.17	
95-47-6	o-Xylene	1.1	4.9	0.61	0.26	1.1	0.14	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.97	0.62	ND	0.14	0.090	
98-82-8	Cumene	ND	4.9	0.54	ND	0.99	0.11	
103-65-1	n-Propylbenzene	ND	4.9	0.50	ND	0.99	0.10	
622-96-8	4-Ethyltoluene	ND	4.9	0.55	ND	0.99	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	0.58	ND	0.99	0.12	
98-83-9	alpha-Methylstyrene	ND	4.9	0.71	ND	1.0	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	0.67	ND	0.99	0.14	
100-44-7	Benzyl Chloride	ND	0.97	0.83	ND	0.19	0.16	
541-73-1	1,3-Dichlorobenzene	1.0	0.97	0.60	0.17	0.16	0.10	
106-46-7	1,4-Dichlorobenzene	17	0.97	0.54	2.8	0.16	0.090	
135-98-8	sec-Butylbenzene	ND	4.9	0.56	ND	0.88	0.10	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	4.9	0.63	ND	0.88	0.11	
95-50-1	1,2-Dichlorobenzene	1.1	0.97	0.64	0.18	0.16	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	0.74	ND	0.50	0.076	
120-82-1	1,2,4-Trichlorobenzene	ND	0.97	0.74	ND	0.13	0.099	
91-20-3	Naphthalene	ND	1.9	0.72	ND	0.37	0.14	
87-68-3	Hexachlorobutadiene	69	0.97	0.87	6.5	0.091	0.082	
98-06-6	tert-Butylbenzene	ND	1.9	0.49	ND	0.35	0.088	
104-51-8	n-Butylbenzene	ND	1.9	0.49	ND	0.35	0.088	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

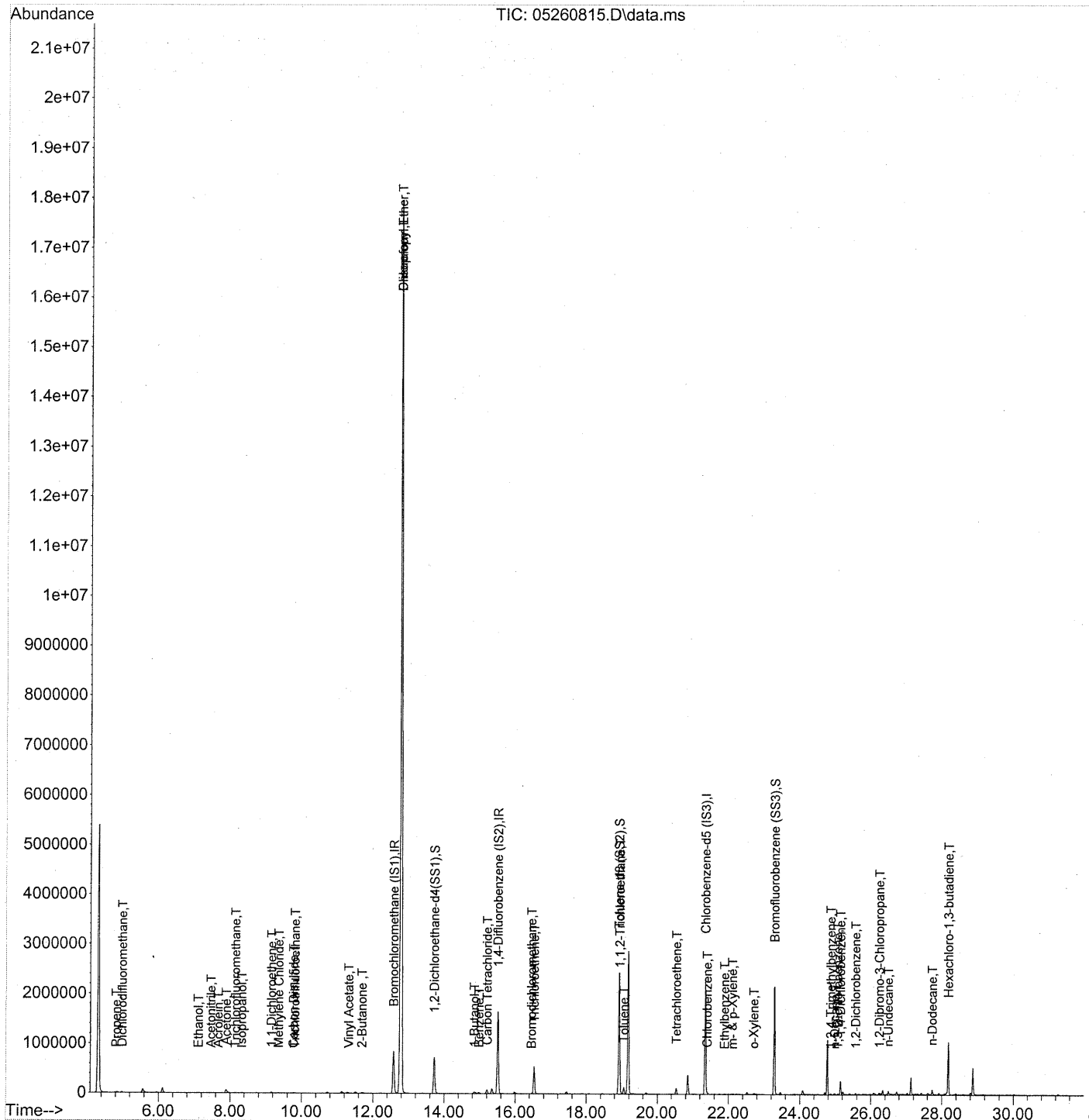
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 11:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 11:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	432519	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1890721	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	895550	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.73	65	732379	24.438	ng	0.00
Spiked Amount	25.000		Recovery	=	97.76%	✓
57) Toluene-d8 (SS2)	18.92	98	2012064	25.017	ng	0.00
Spiked Amount	25.000		Recovery	=	100.08%	✓
73) Bromofluorobenzene (SS3)	23.29	174	818494	25.025	ng	0.00
Spiked Amount	25.000		Recovery	=	100.12%	✓

Target Compounds

						Qvalue
2) Propene	4.82	42	4826	0.141	ng	# 19
3) Dichlorodifluoromethane	4.99	85	13319	0.212	ng	99
4) Chloromethane	5.32	50	846	N.D.	✓	
5) Freon 114	5.56	135	198	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	5.99	54	138	N.D.	✓	
8) Bromomethane	0.00	94	0	N.D.	✓	
9) Chloroethane	0.00	64	0	N.D.	✓	
10) Ethanol	7.11	45	8108m	0.357	ng	
11) Acetonitrile	7.46	41	5606	0.085	ng	84
12) Acrolein	7.67	56	2694	0.166	ng	95
13) Acetone	7.89	58	26821m	1.152	ng	
14) Trichlorofluoromethane	8.15	101	6314	0.117	ng	99
15) Isopropanol	8.33	45	7007	0.094	ng	91
16) Acrylonitrile	0.00	53	0	N.D.	✓	
17) 1,1-Dichloroethene	9.16	96	7671	0.323	ng	90
18) tert-Butanol	9.29	59	3072	N.D.	✓	
19) Methylene Chloride	9.36	84	2617	0.101	ng	# 73
20) Allyl Chloride	9.57	41	65	N.D.	✓	
21) Trichlorotrifluoroethane	9.82	151	1347	0.055	ng	✓ HDL 89
22) Carbon Disulfide	9.77	76	9590	0.097	ng	✓ HDL 94
23) trans-1,2-Dichloroethene	10.74	61	63	N.D.	✓	
24) 1,1-Dichloroethane	11.10	63	1075	N.D.	✓	
25) Methyl tert-Butyl Ether	11.22	73	1932	N.D.	✓	
26) Vinyl Acetate	11.33	86	984	0.229	ng	# 80
27) 2-Butanone	11.70	72	6481	0.381	ng	# 88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.79	87	2202981	105.795	ng	MR # 1
30) Ethyl Acetate	12.78	61	366	N.D.		
31) n-Hexane	12.70	57	1303	N.D.		

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 11:59:47 2008

Quant Method : J:\MS13\METHODS\R13052208.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu May 22 11:37:04 2008

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	19031911	482.548	ng	96 <i>see Dil</i>
34) Tetrahydrofuran	13.40	72	387	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.88	62	54	N.D.	✓	
38) 1,1,1-Trichloroethane	14.29	97	117	N.D.	✓	
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.85	56	37553	1.445	ng	91
41) Benzene	14.99	78	26855	0.271	ng	98
42) Carbon Tetrachloride	15.21	117	62279	1.634	ng	98
43) Cyclohexane	15.42	84	522	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	16.20	63	128	N.D.	✓	
46) Bromodichloromethane	16.46	83	3857	0.115	ng	80
47) Trichloroethene	16.53	130	236770	7.796	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	✓	
49) Isooctane	16.62	57	4242	N.D.		
50) Methyl Methacrylate	16.87	100	57	N.D.	✓	
51) n-Heptane	16.98	71	189	N.D.	✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.76	58	65	N.D.	✓	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	174501	7.133	ng	9 <i>MR #</i>
58) Toluene	19.06	91	117360	1.073	ng	100
59) 2-Hexanone	19.38	43	3200	N.D.	✓	
60) Dibromochloromethane	19.60	129	166	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.19	43	240	N.D.		
63) n-Octane	20.35	57	306	N.D.	✓	
64) Tetrachloroethene	20.54	166	43110	1.333	ng	99
65) Chlorobenzene	21.40	112	19750	0.269	ng	98
66) Ethylbenzene	21.89	91	7503	0.060	ng	97 <i>LHDL</i>
67) m- & p-Xylene	22.12	91	13544	0.162	ng	92
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	22.58	104	813	N.D.	✓	
70) o-Xylene	22.71	91	10511	0.116	ng	97
71) n-Nonane	22.97	43	2863	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.67	83	292	N.D.	✓	
74) Cumene	23.47	105	1021	N.D.	✓	
75) alpha-Pinene	23.96	93	521	N.D.		
76) n-Propylbenzene	24.10	91	3261	N.D.	✓	
77) 3-Ethyltoluene	24.23	105	4184	N.D.		
78) 4-Ethyltoluene	24.28	105	3444	N.D.	✓	
79) 1,3,5-Trimethylbenzene	24.38	105	1610	N.D.	✓	

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
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 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 11:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

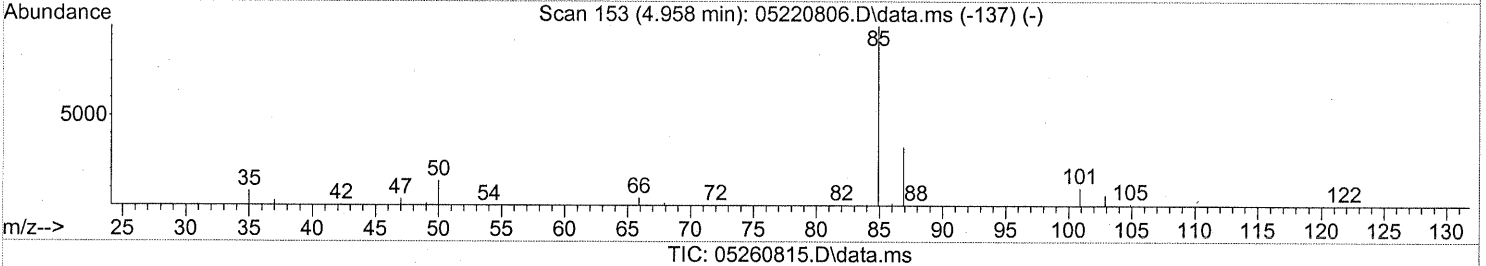
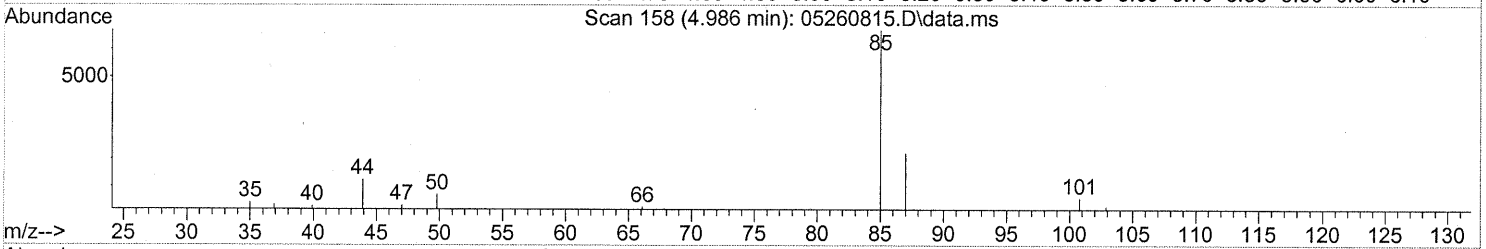
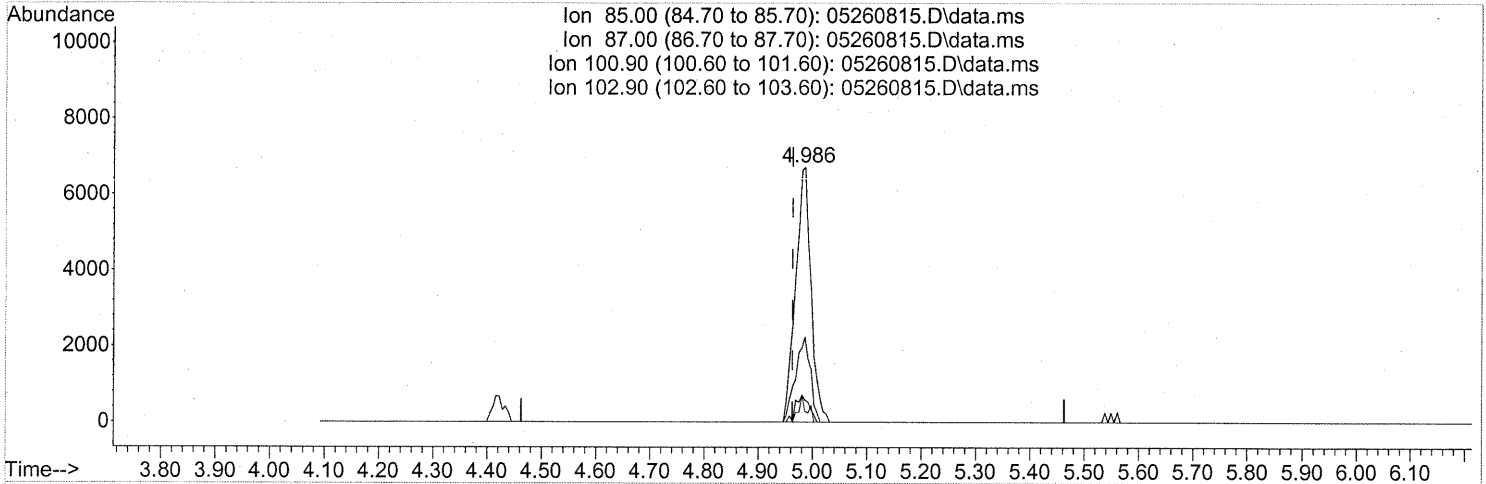
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	208	N.D. ✓	
81) 2-Ethyltoluene	24.60	105	4113	N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	7098	0.065 ng <MDL	89
83) n-Decane	24.98	57	8414	0.139 ng #	66
84) Benzyl Chloride	25.04	91	219	N.D. ✓	
85) 1,3-Dichlorobenzene	25.07	146	7426	0.108 ng	99
86) 1,4-Dichlorobenzene	25.15	146	117132	1.757 ng	100
87) sec-Butylbenzene	25.20	105	765	N.D. ✓	
88) p-Isopropyltoluene	25.40	119	2351	N.D. ✓	
89) 1,2,3-Trimethylbenzene	25.41	105	4541	N.D.	
90) 1,2-Dichlorobenzene	25.57	146	7311	0.112 ng	98
91) d-Limonene	25.58	68	1844	N.D.	
92) 1,2-Dibromo-3-Chloropr...	26.24	157	2806	0.139 ng #	38
93) n-Undecane	26.50	57	26277	0.415 ng	81
94) 1,2,4-Trichlorobenzene	27.63	180	209	N.D. ✓	
95) Naphthalene	27.78	128	5936	N.D. ✓	
96) n-Dodecane	27.73	57	29027	0.461 ng	83
97) Hexachloro-1,3-butadiene	28.19	225	227428	7.150 ng	100

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.986min (+0.023) 0.21ng

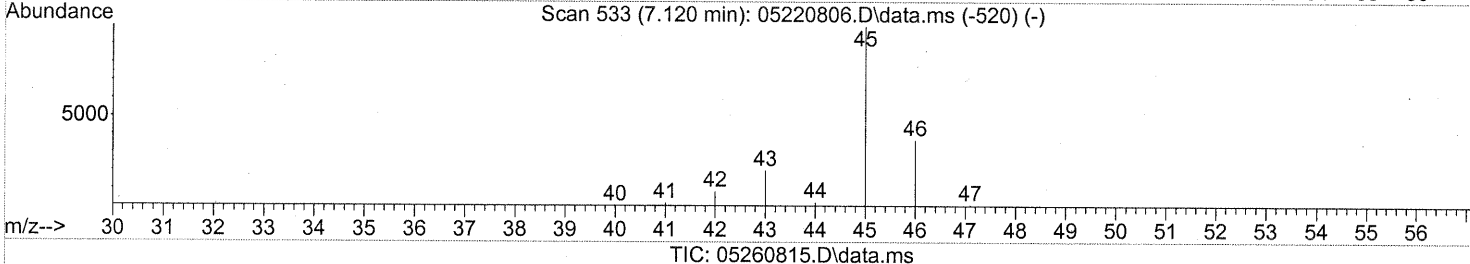
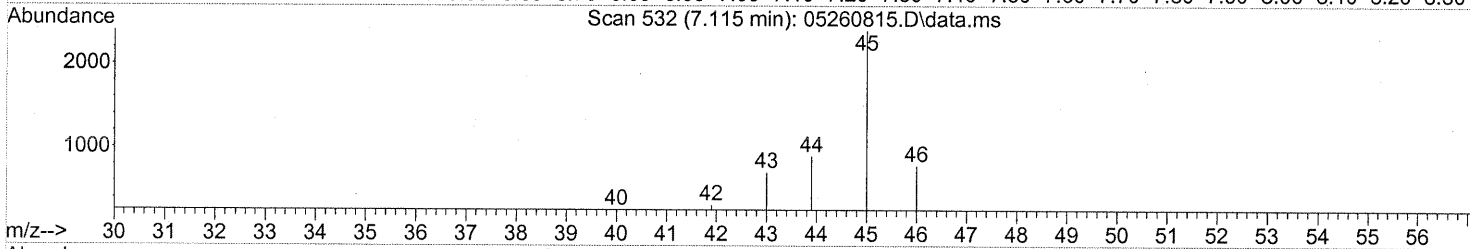
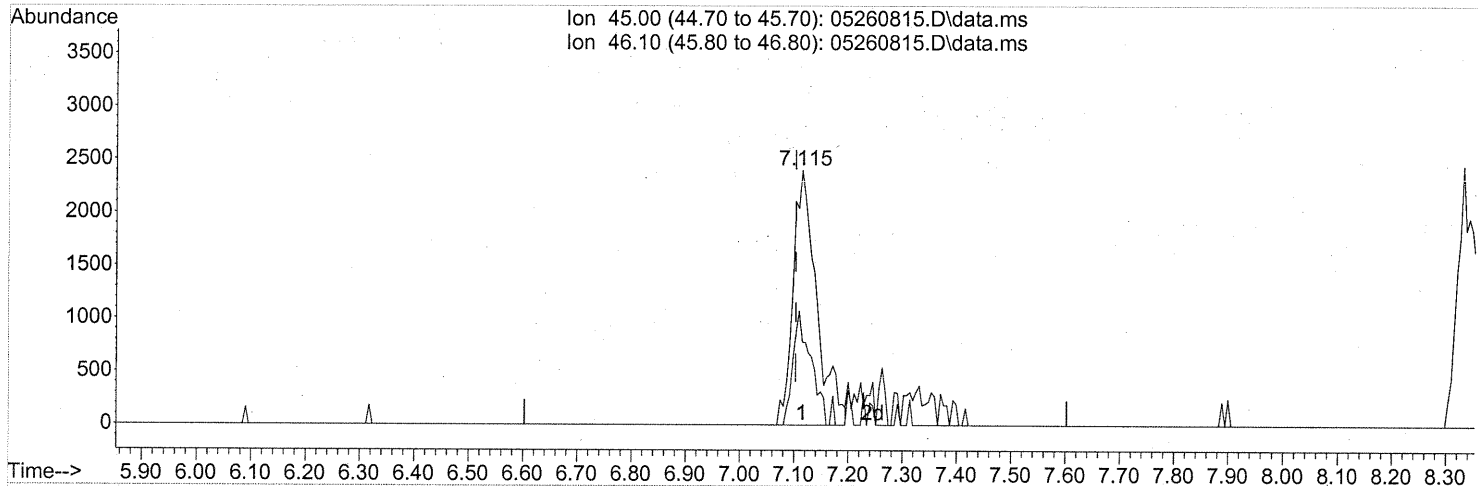
response 13319

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.11
100.90	9.30	9.08
102.90	6.00	5.46

Quantitation Report (Qedit)

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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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Response via : Initial Calibration



(10) Ethanol (T)

7.115min (+0.011) 0.32ng

response 7221

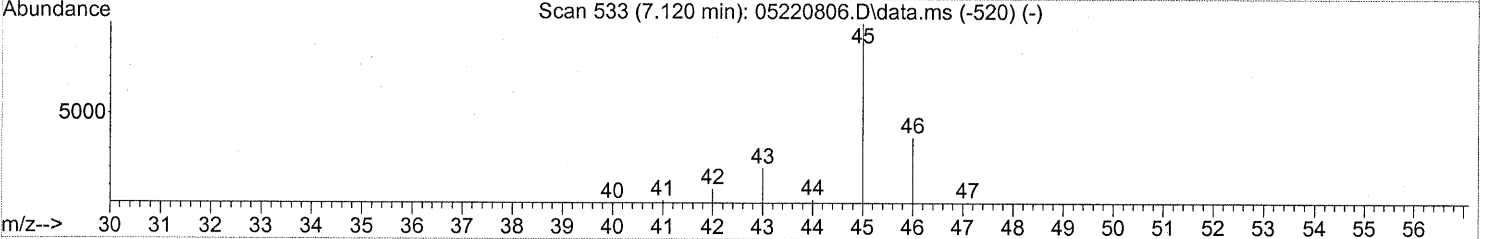
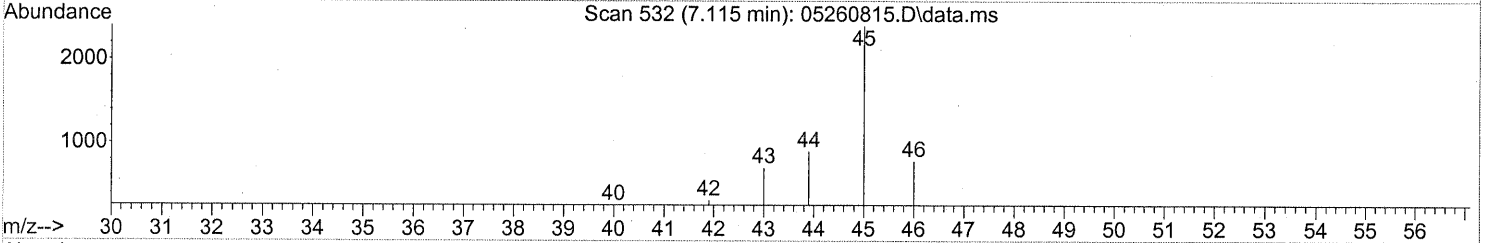
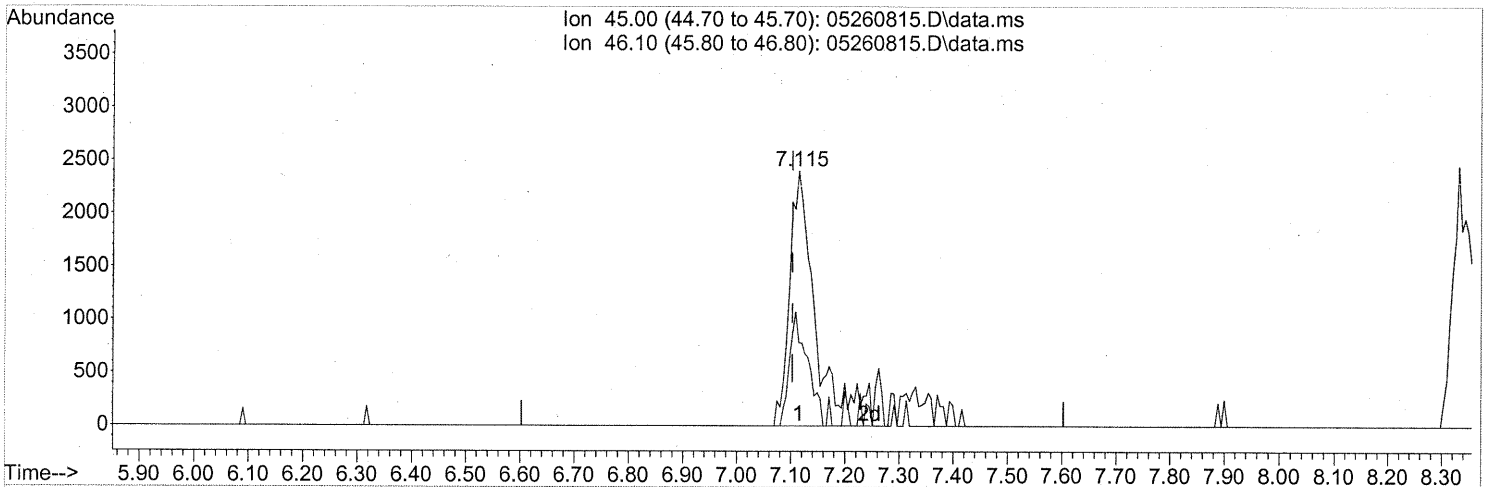
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.22
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Quantitation Report (Qedit)

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 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)
 7.115min (+0.011) 0.36ng m
 response 8108

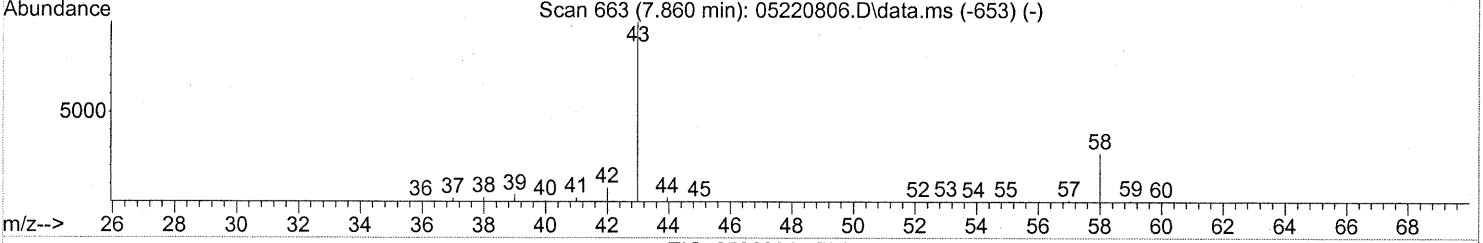
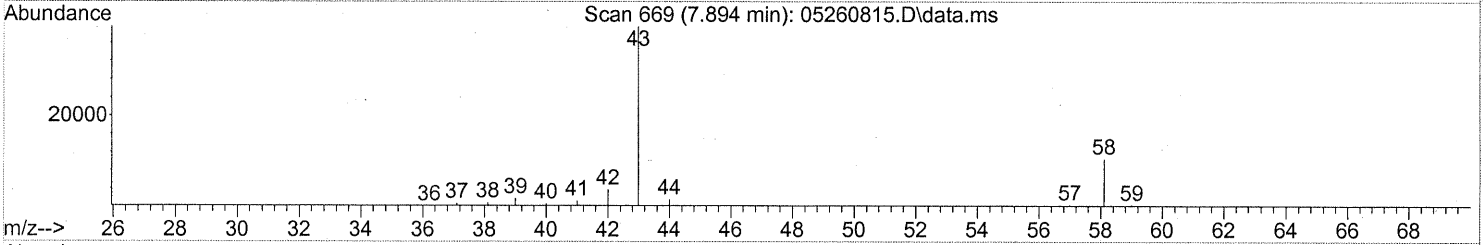
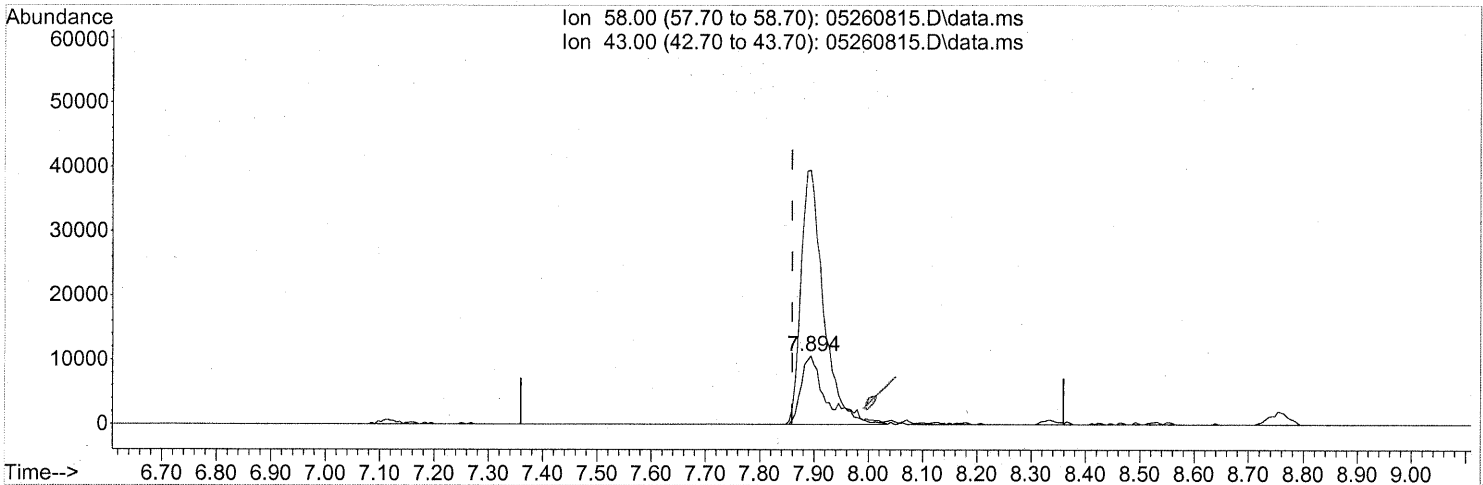
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	30.48
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
~~107~~ 5/31/08
 P06/02/08

Quantitation Report (Qedit)

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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)

7.894min (+0.034) 1.48ng

response 34376

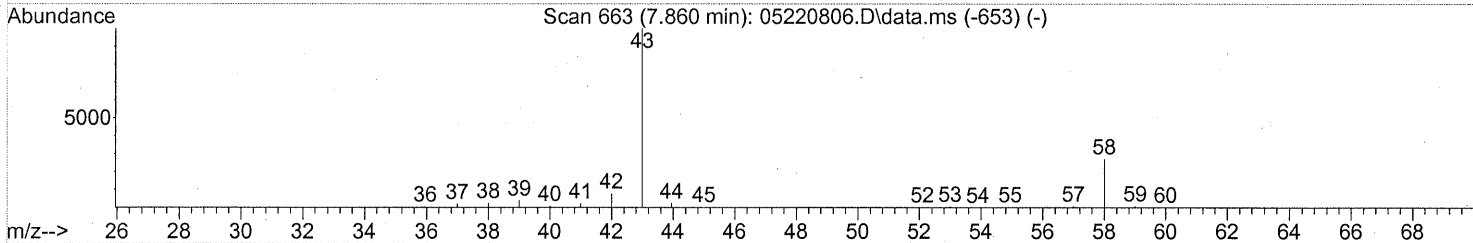
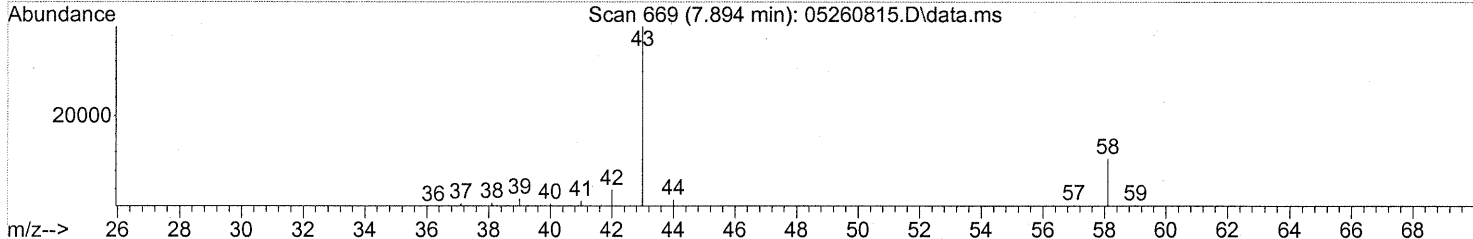
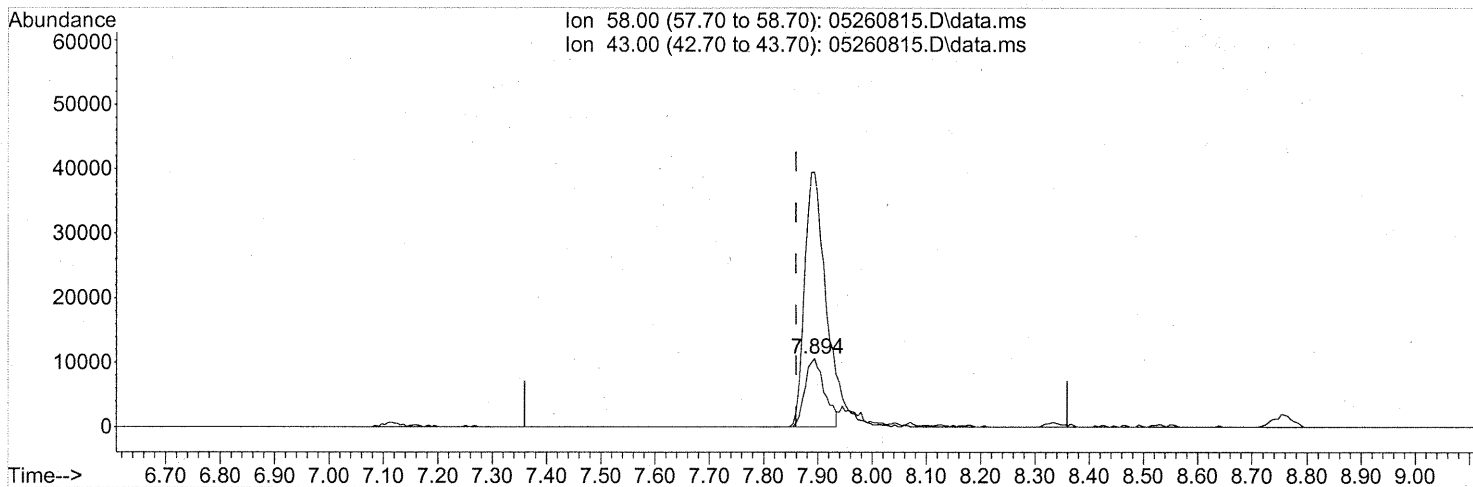
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	330.75#
0.00	0.00	0.00
0.00	0.00	0.00

interf. shoulder

Quantitation Report (Qedit)

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 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(13) Acetone (T)
 7.894min (+0.034) 1.15ng m
 response 26821

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	423.91#
0.00	0.00	0.00
0.00	0.00	0.00

no shoulder

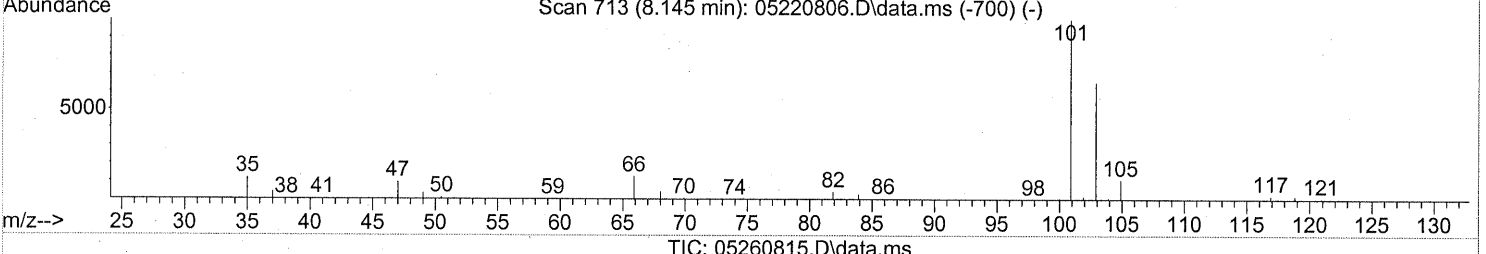
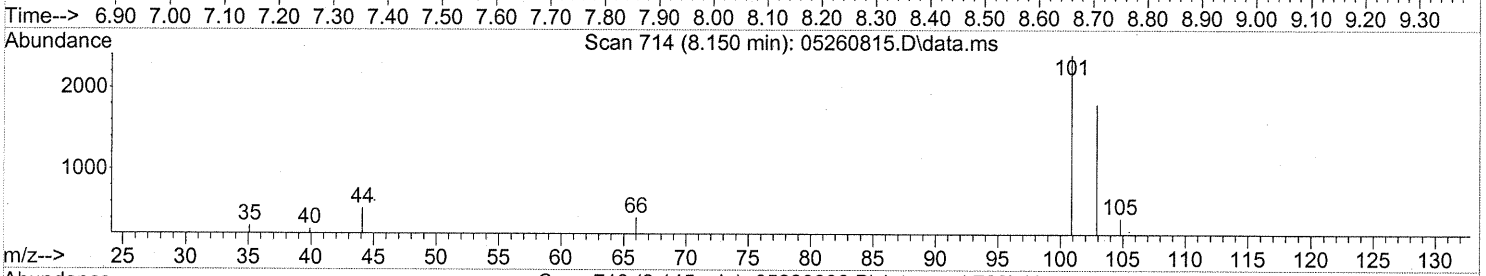
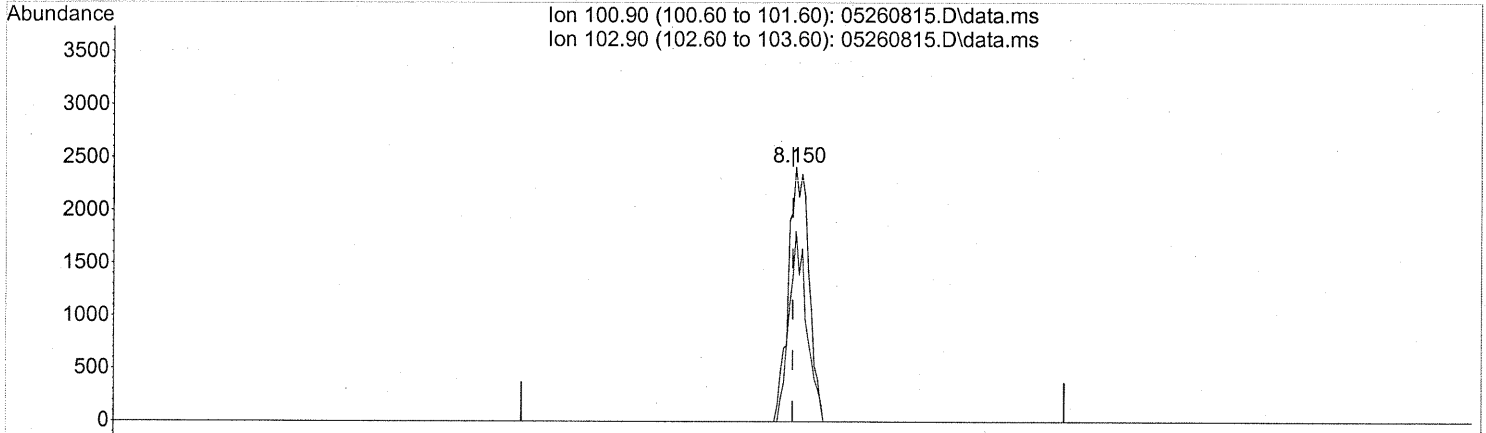
at 5/31/08

F 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260815.D\data.ms

(14) Trichlorofluoromethane (T)

8.150min (+0.006) 0.12ng

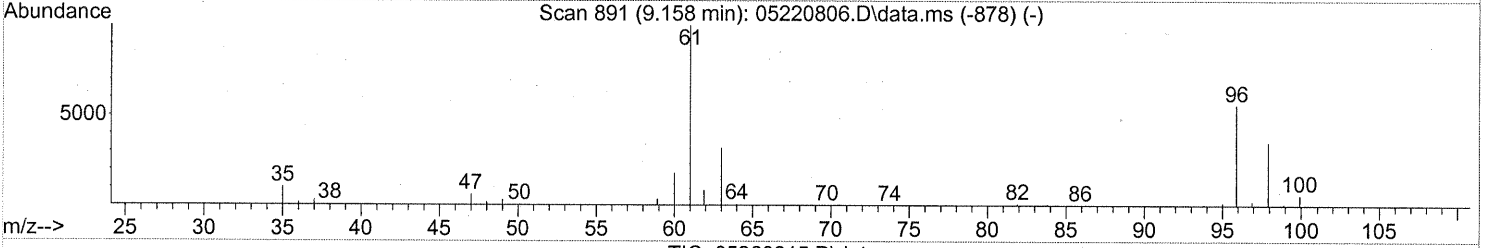
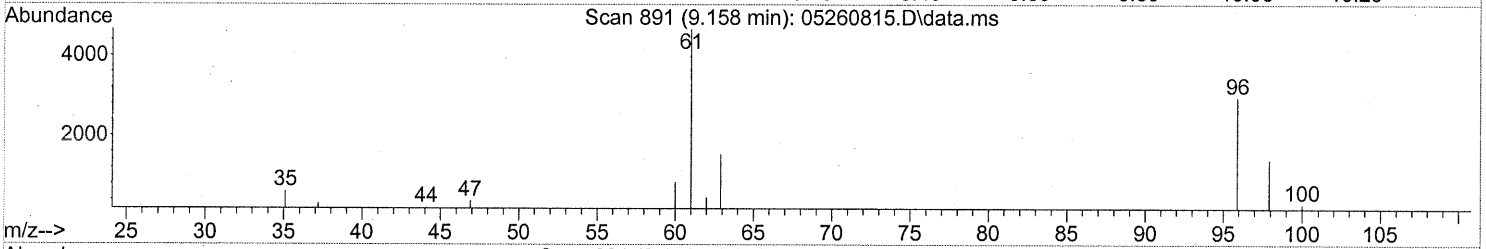
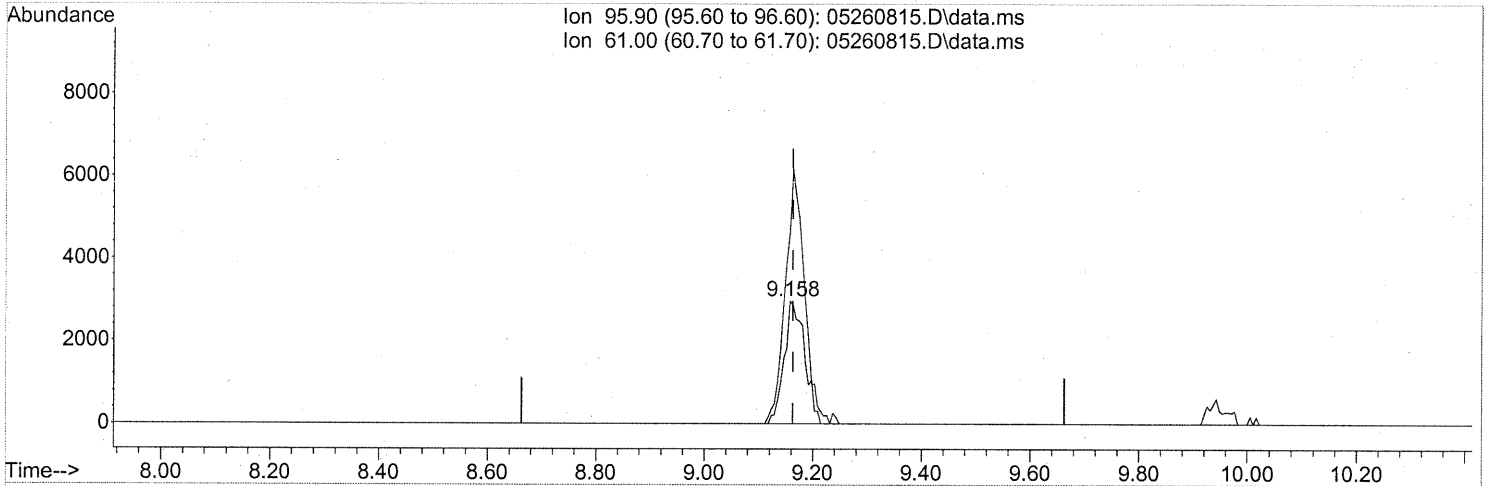
response 6314

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Quant Time: May 27 06:13:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260815.D\data.ms

(17) 1,1-Dichloroethene (T)

9.158min (-0.006) 0.32ng

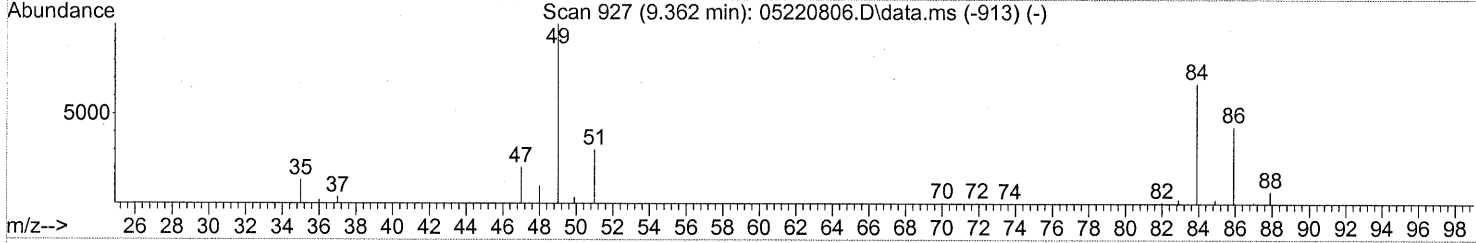
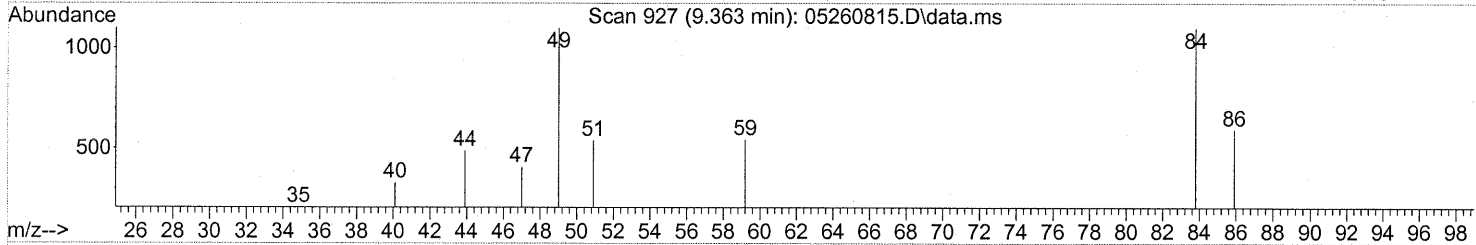
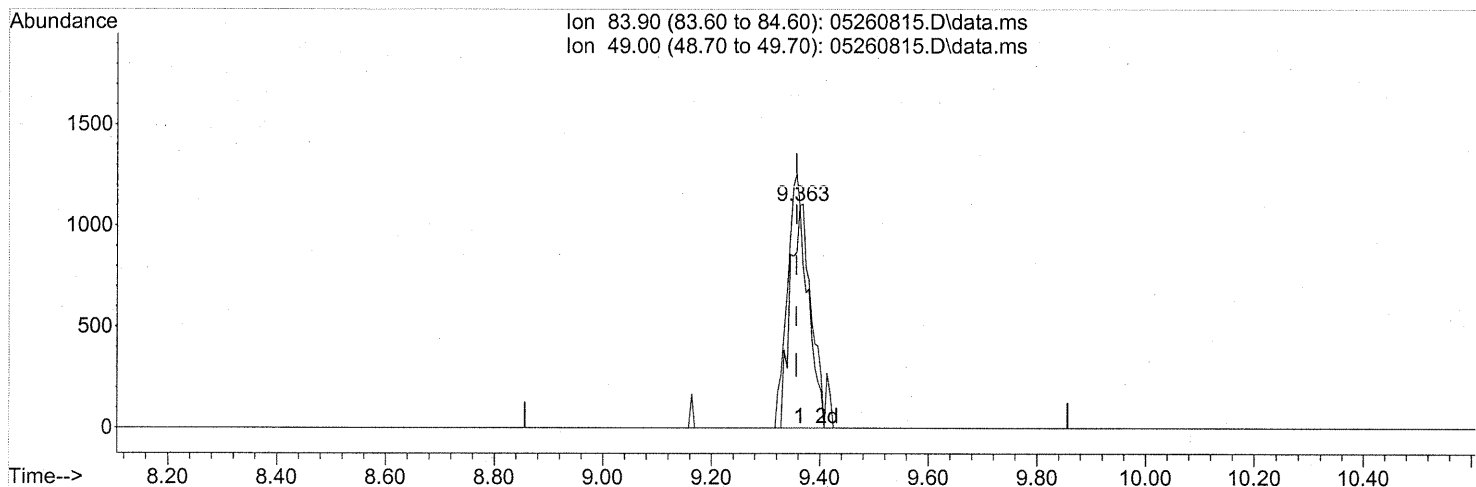
response 7671

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	195.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Quant Time: May 27 06:13:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260815.D\data.ms

(19) Methylene Chloride (T)

9.363min (+0.006) 0.10ng

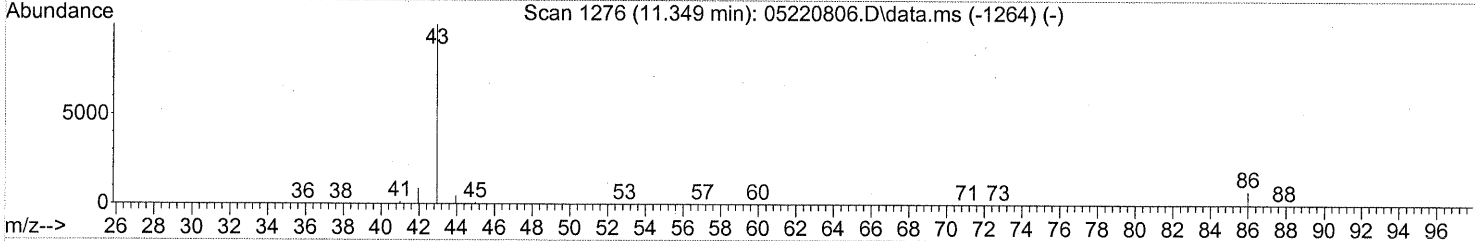
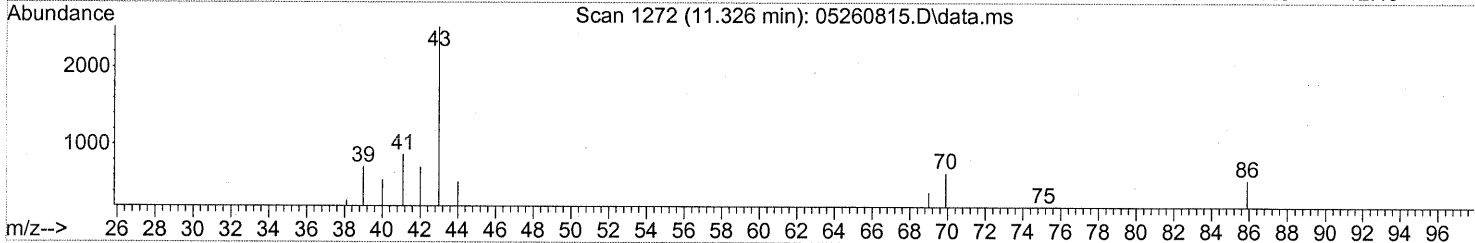
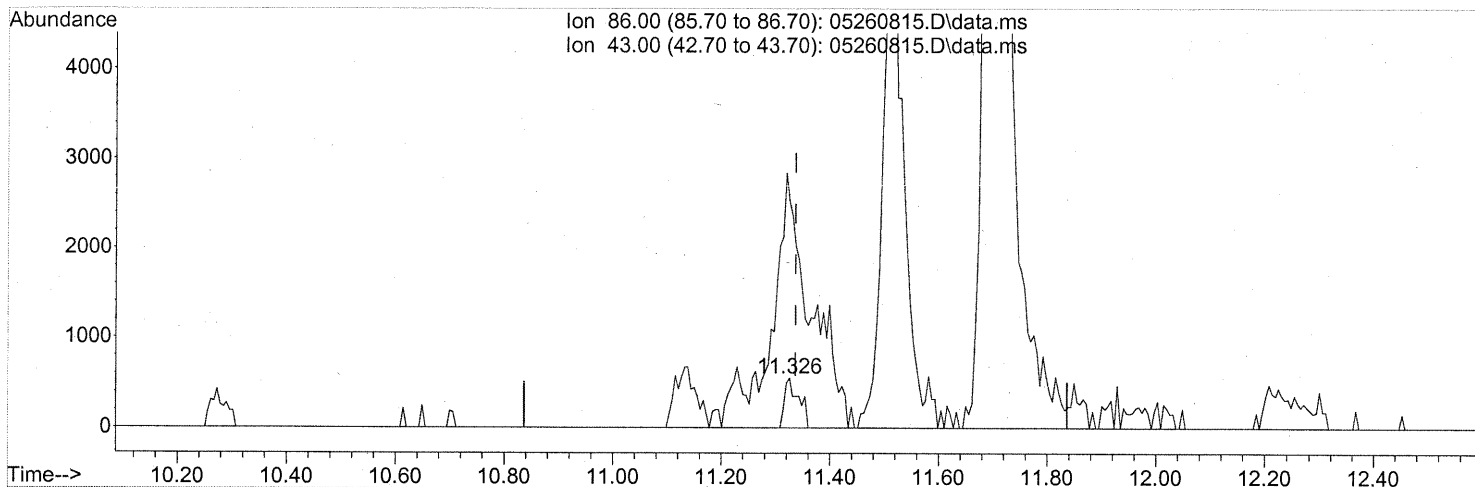
response 2617

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	135.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.326min (-0.011) 0.23ng

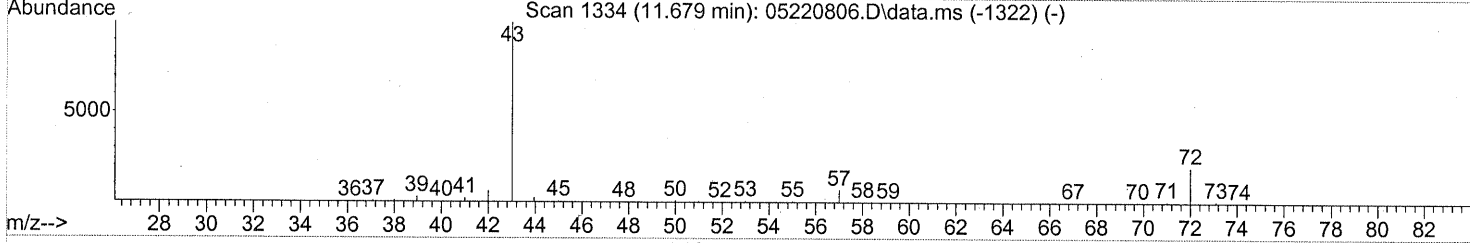
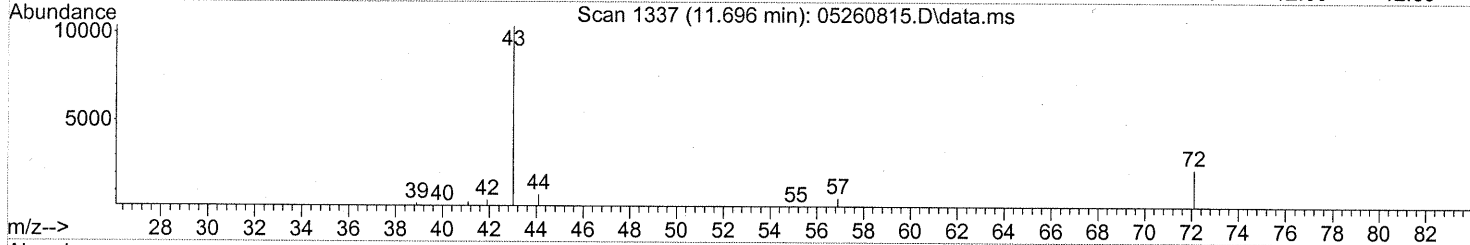
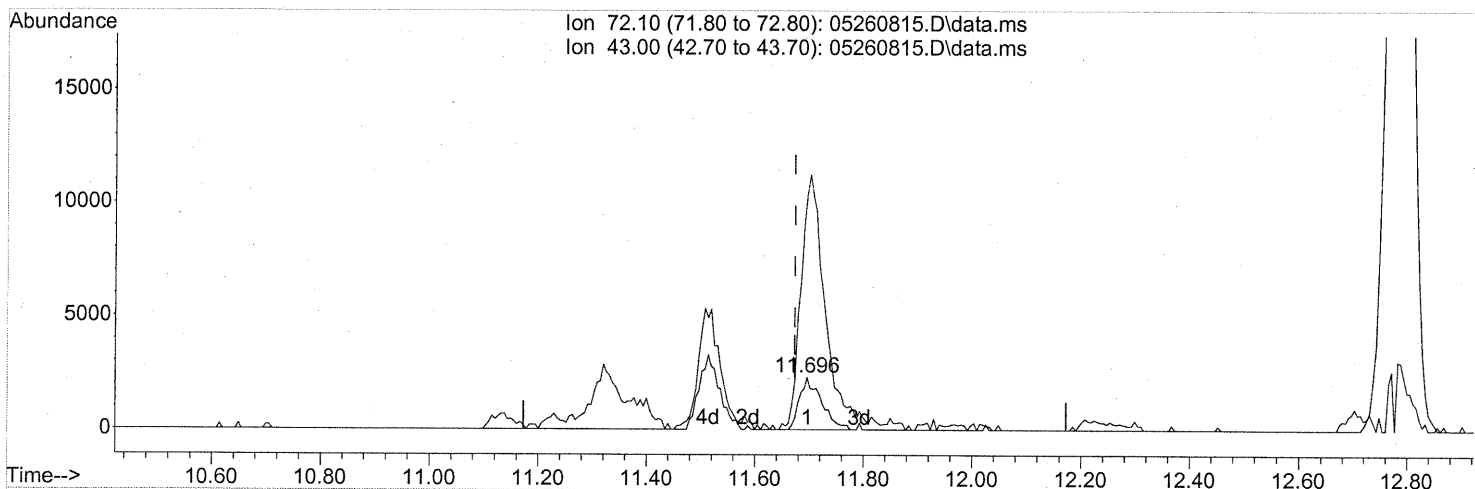
response 984

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	1266.16#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



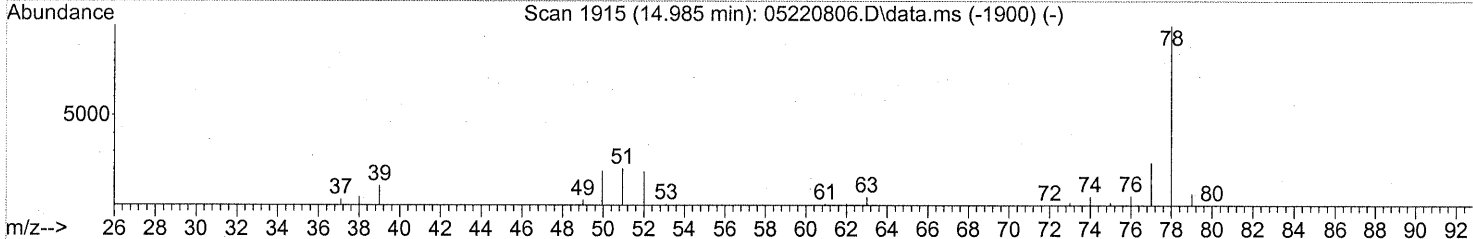
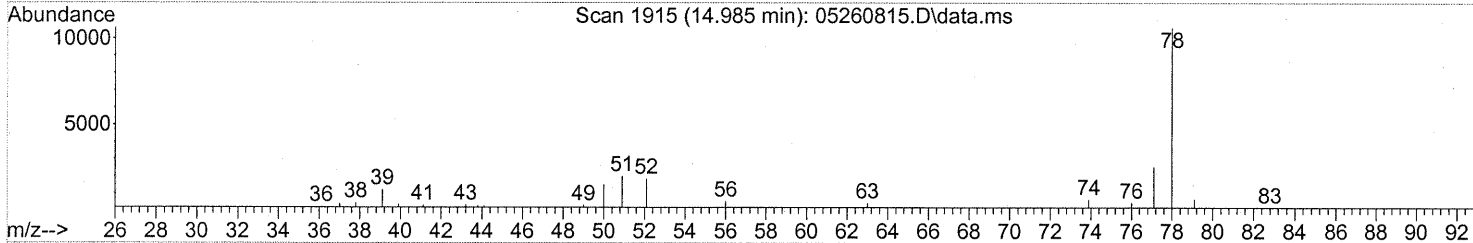
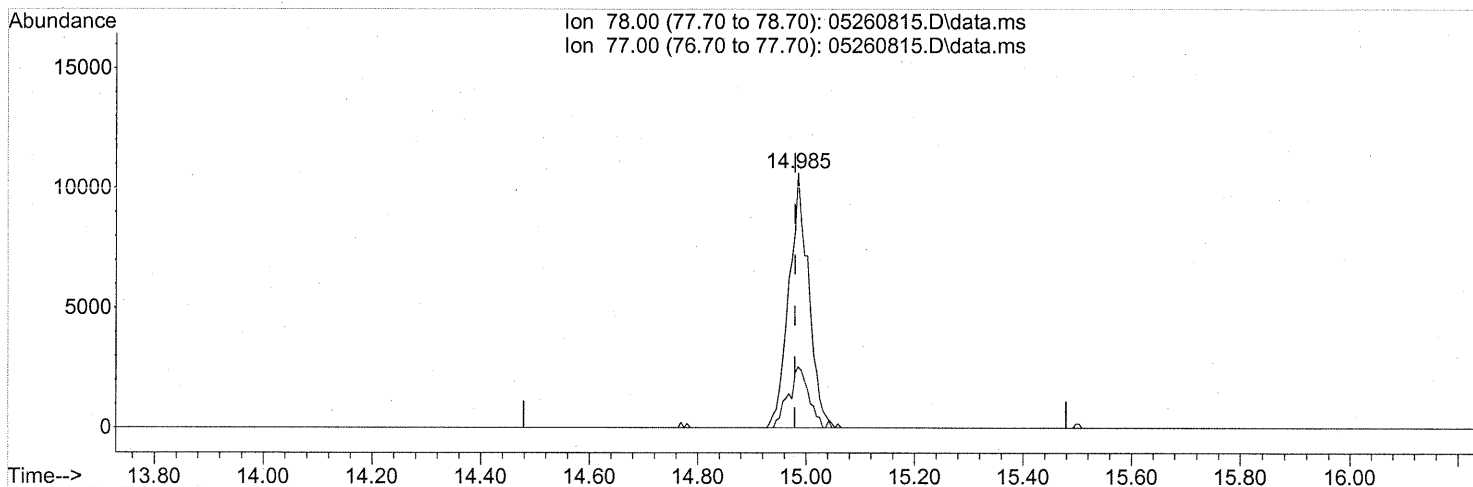
(27) 2-Butanone (T)
 11.696min (+0.023) 0.38ng
 response 6481

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	540.81#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(41) Benzene (T)

14.985min (+0.006) 0.27ng

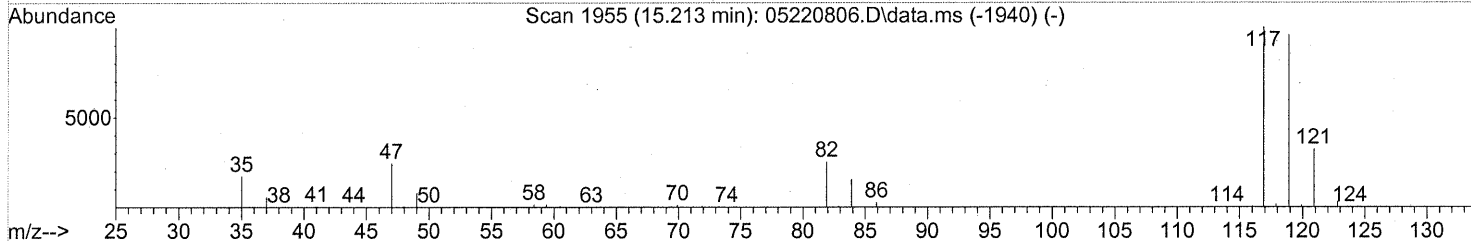
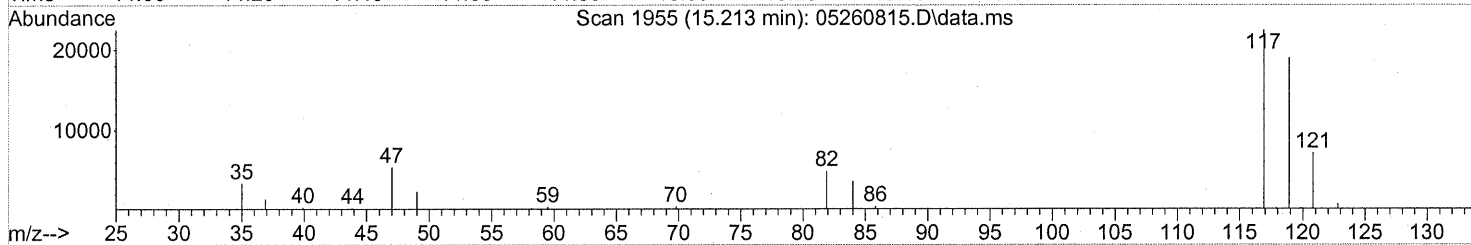
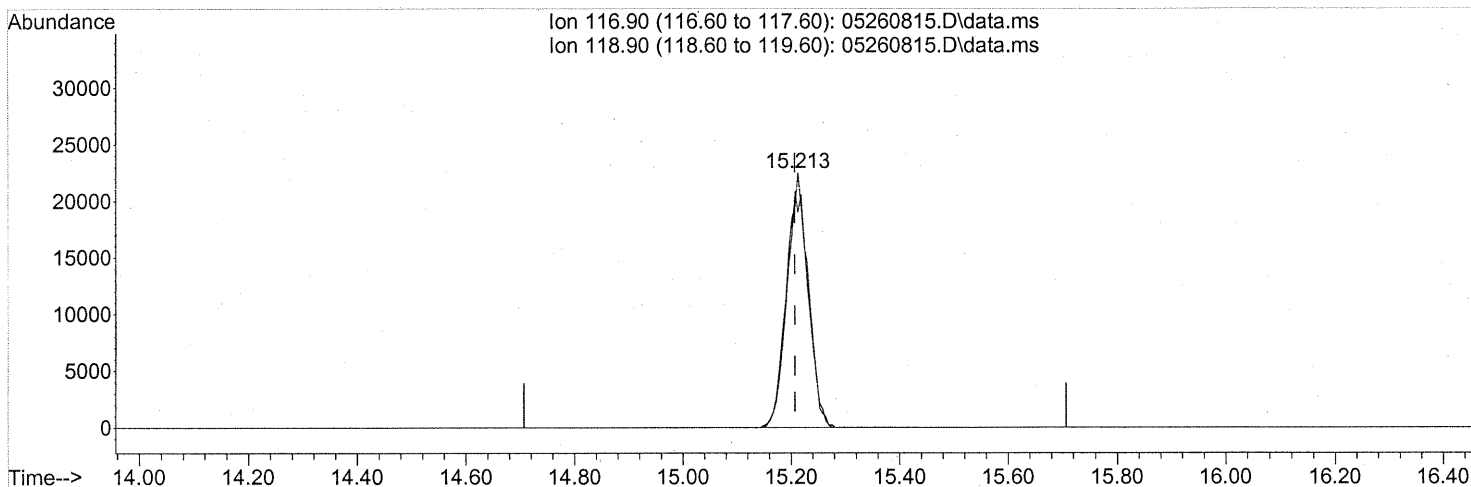
response 26855

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260815.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 1.63ng

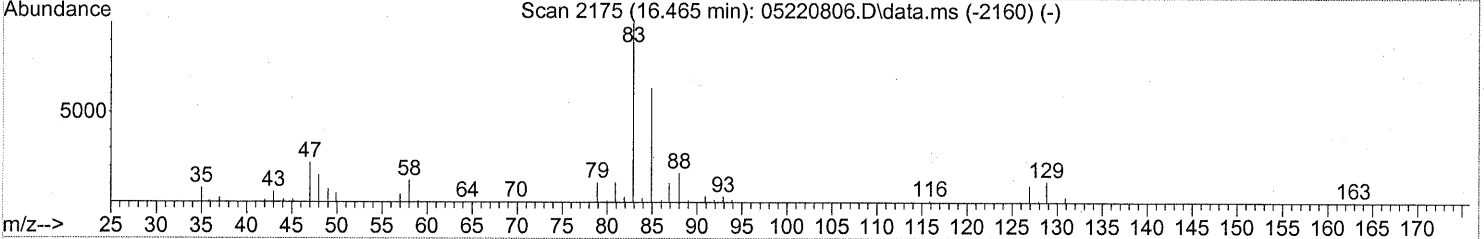
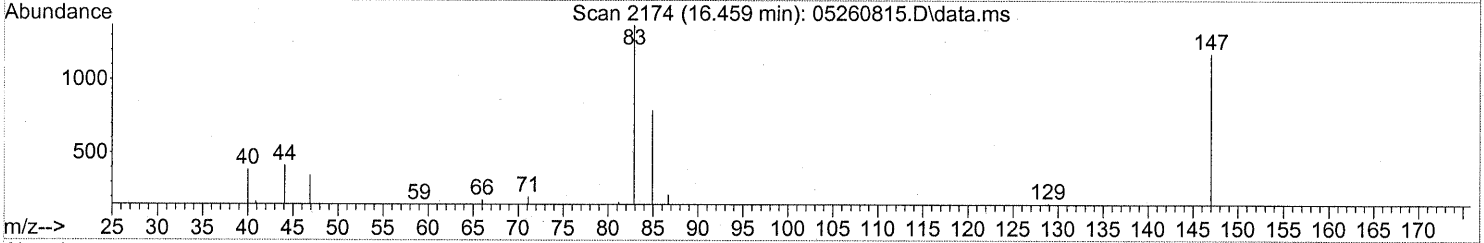
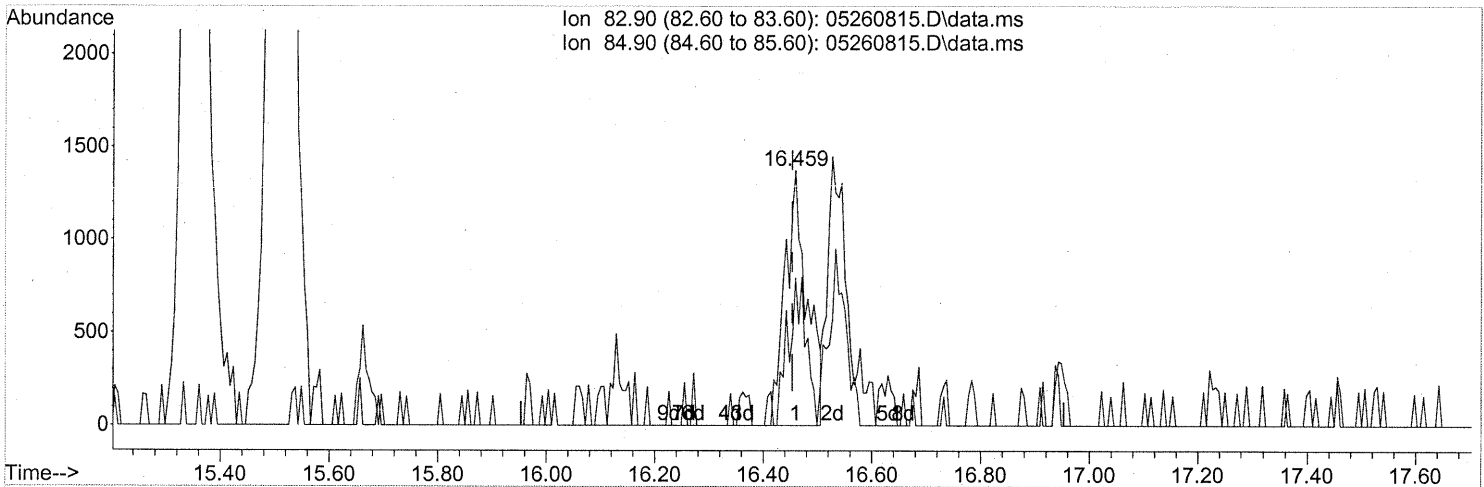
response 62279

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	94.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.12ng

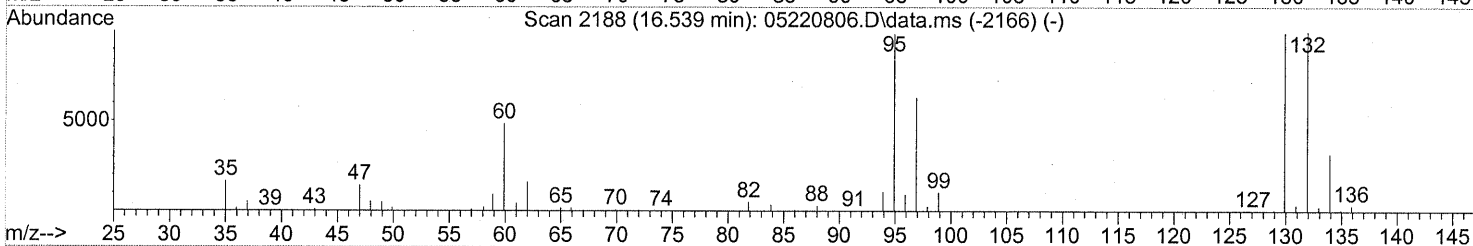
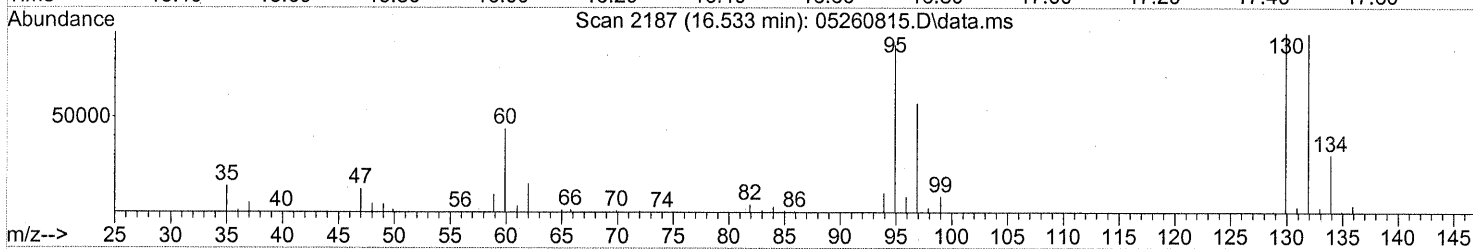
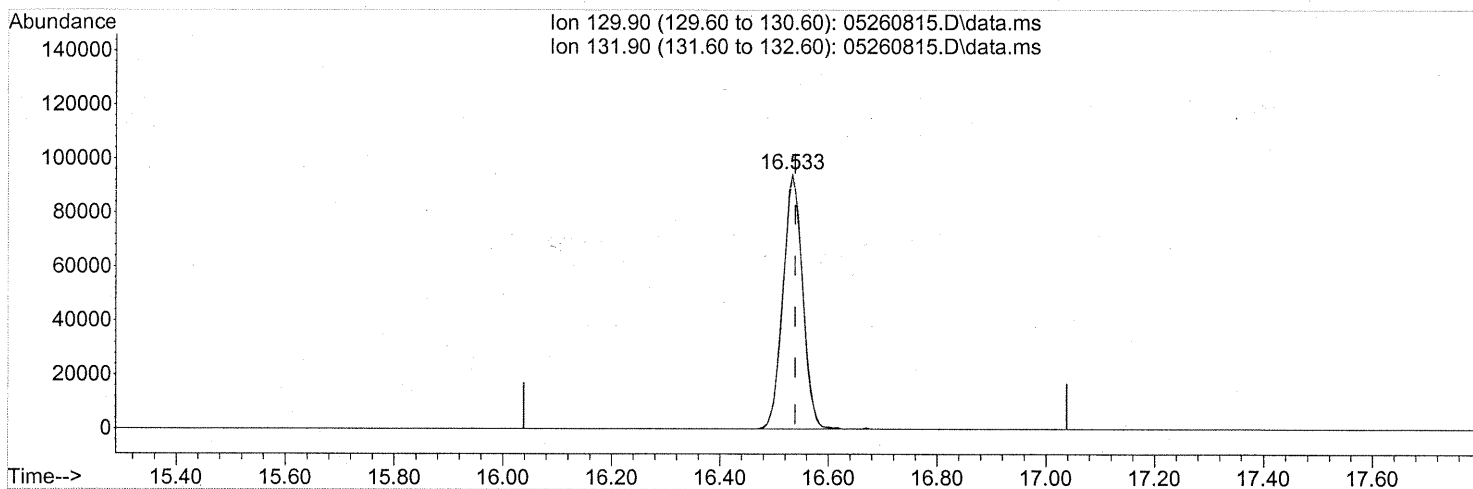
response 3857

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	48.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260815.D\data.ms

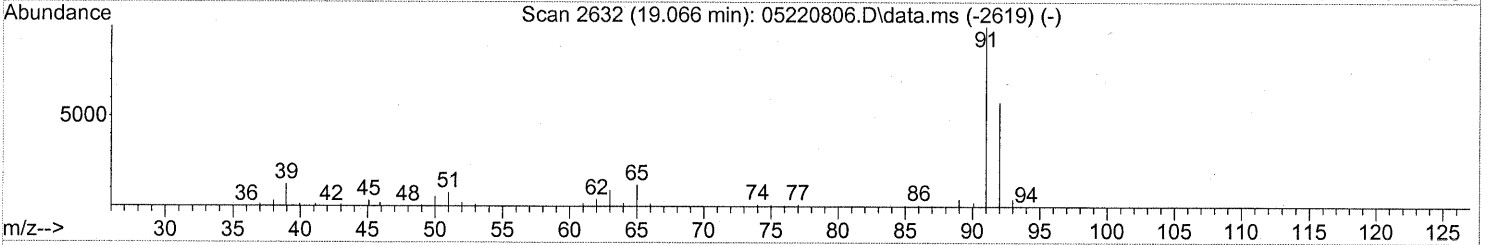
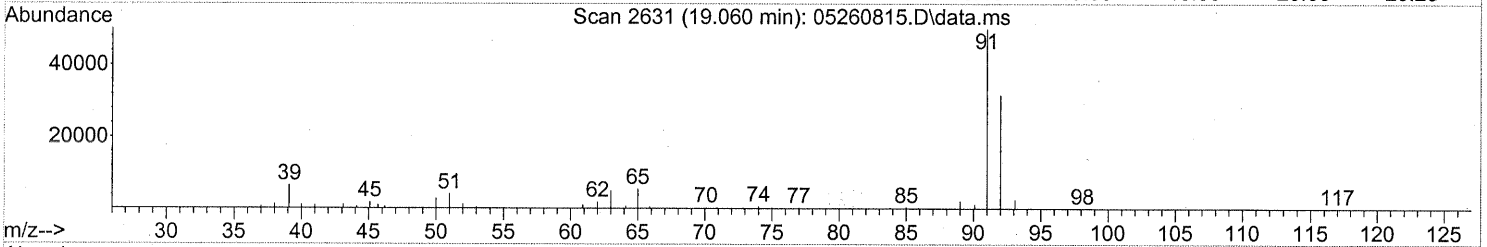
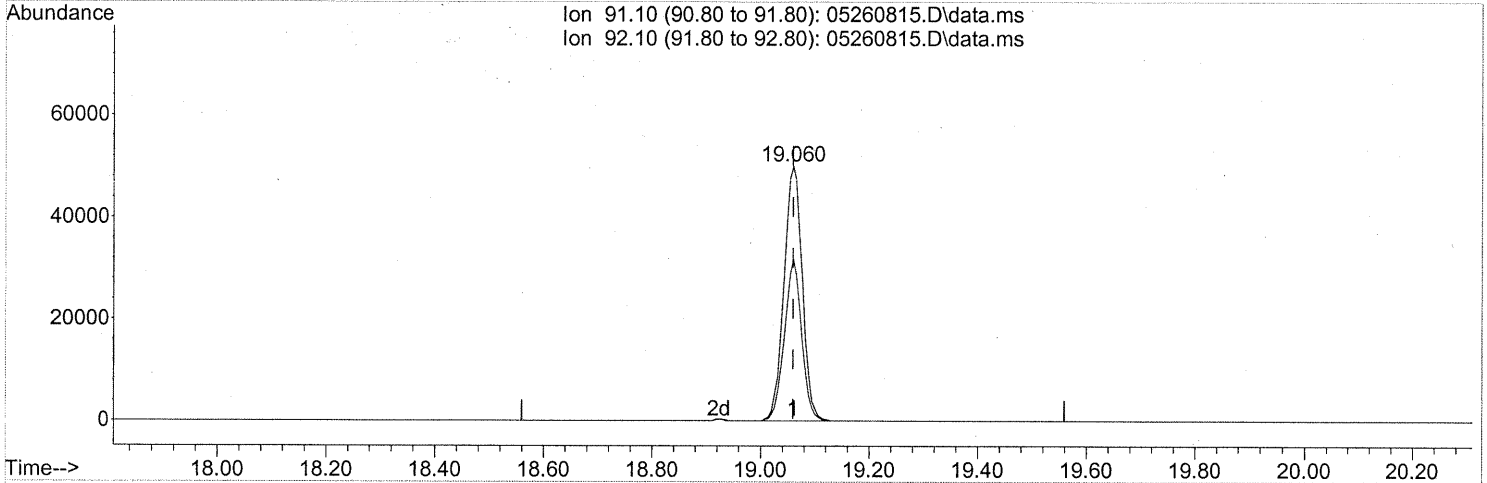
(47) Trichloroethene (T)
 16.533min (-0.006) 7.80ng
 response 236770

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	100.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260815.D
Acq On : 26 May 2008 21:19
Operator : WA
Sample : P0801483-007 (200ml)
Misc : ENSR SG26B-05D (-5.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260815.D\data.ms

(58) Toluene (T)

19.060min (+0.000) 1.07ng

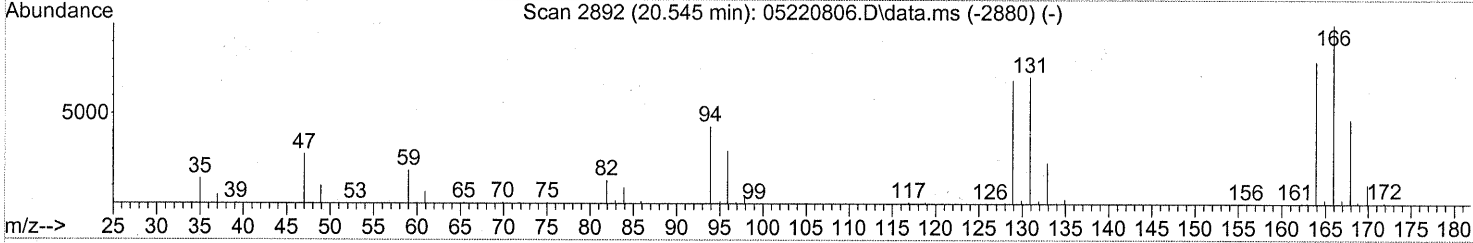
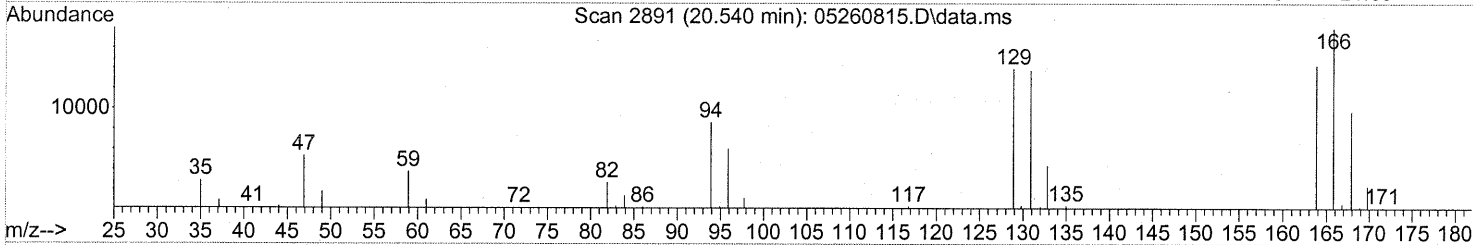
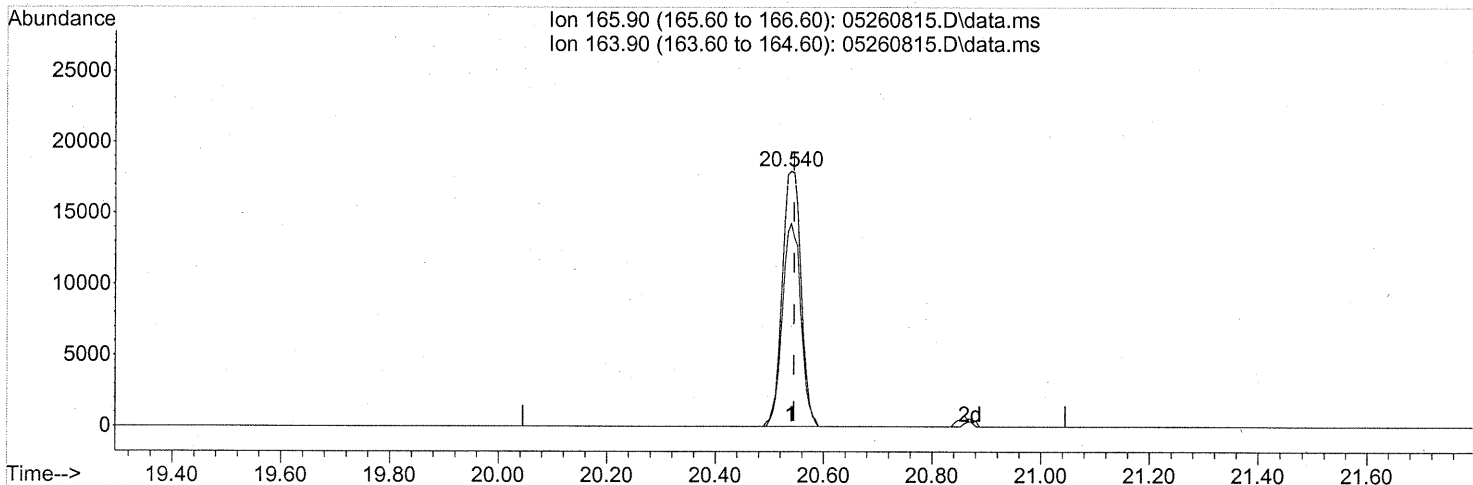
response 117360

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	59.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260815.D
Acq On : 26 May 2008 21:19
Operator : WA
Sample : P0801483-007 (200ml)
Misc : ENSR SG26B-05D (-5.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260815.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 1.33ng

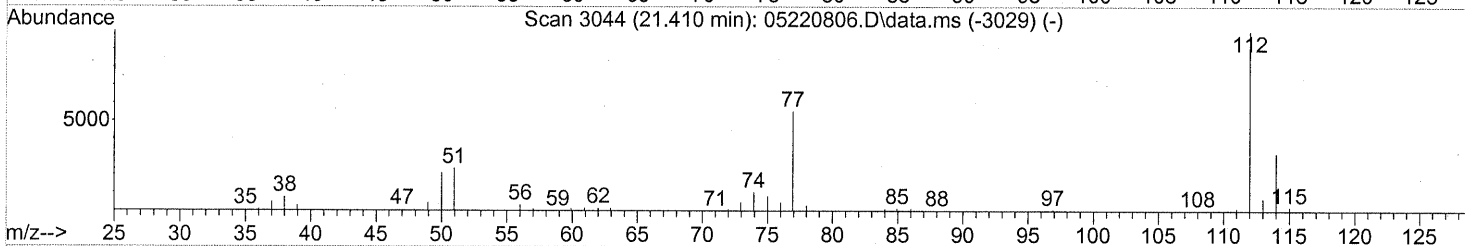
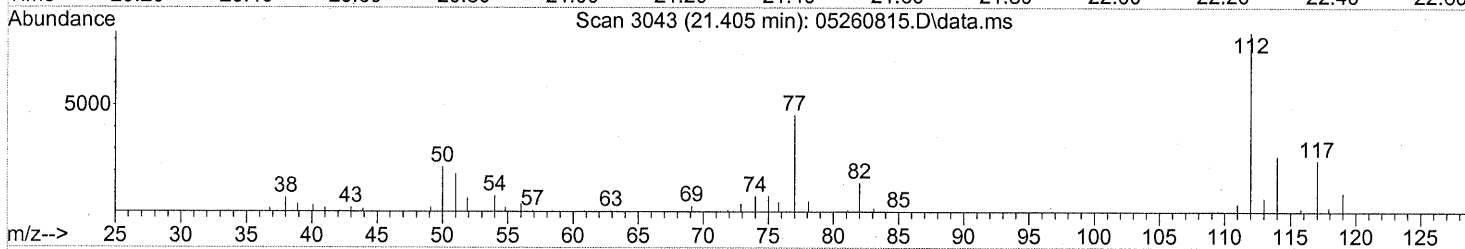
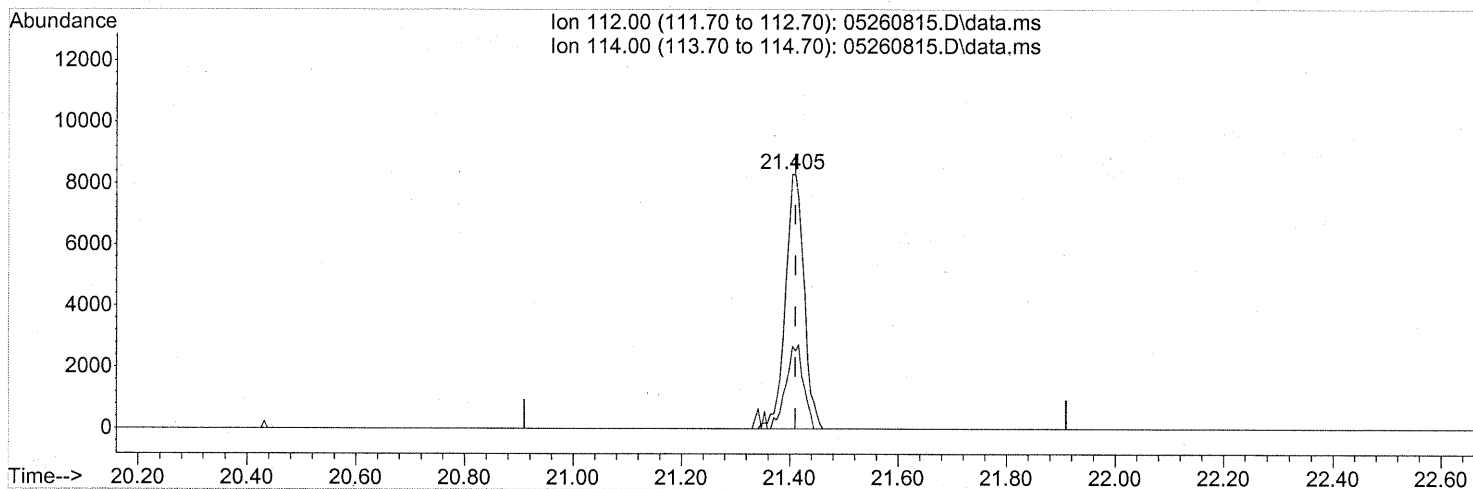
response 43110

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	77.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



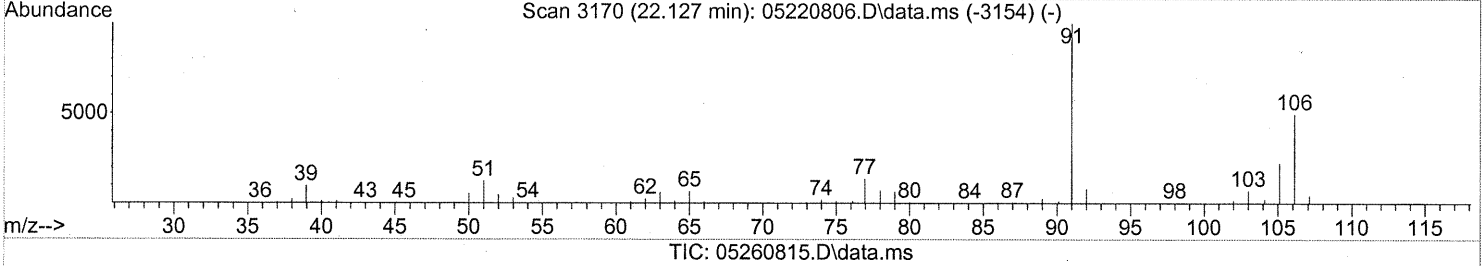
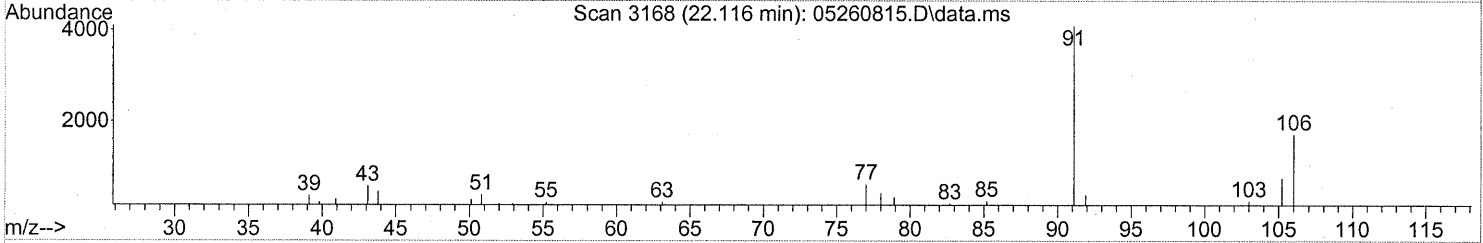
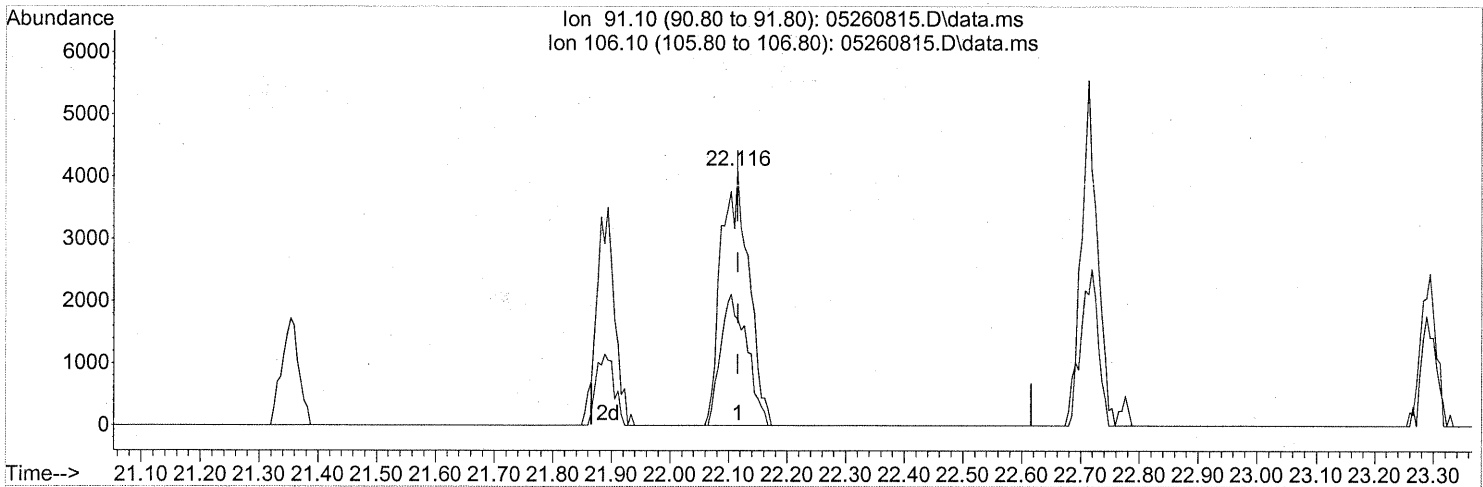
(65) Chlorobenzene (T)
 21.405min (-0.006) 0.27ng
 response 19750

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	31.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(67) m- & p-Xylene (T)

22.116min (+0.000) 0.16ng

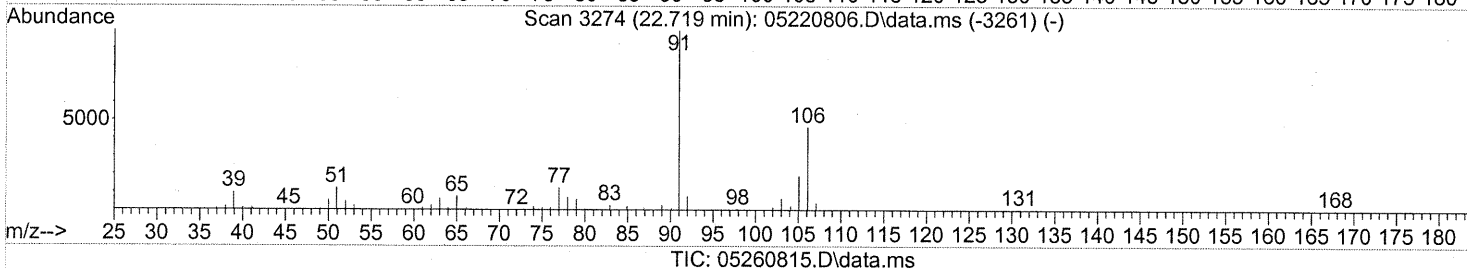
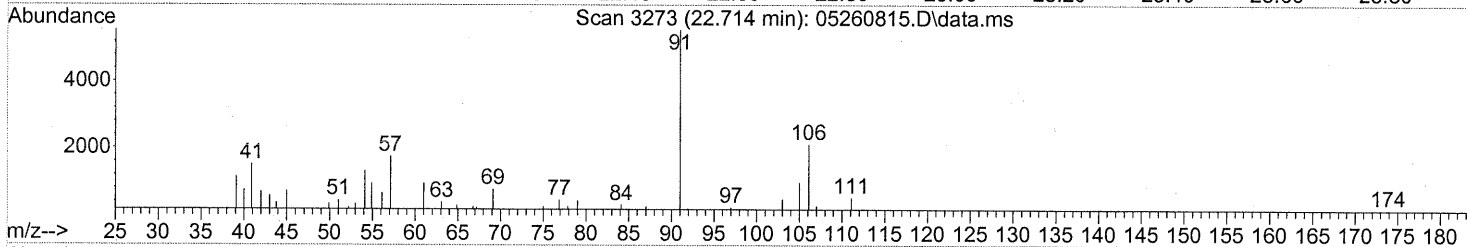
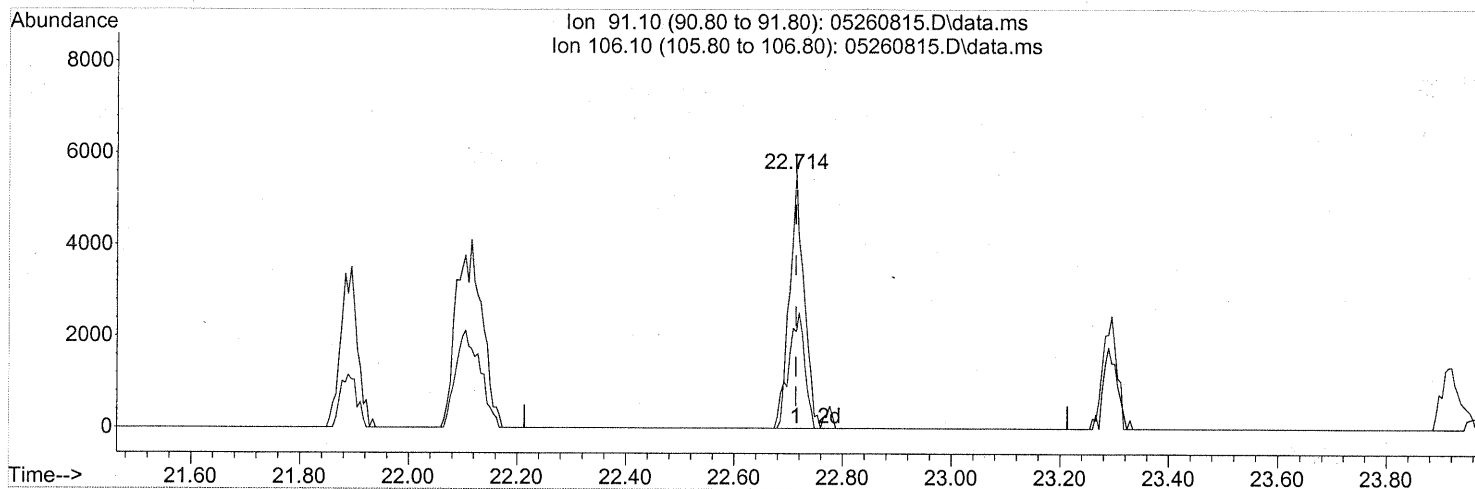
response 13544

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



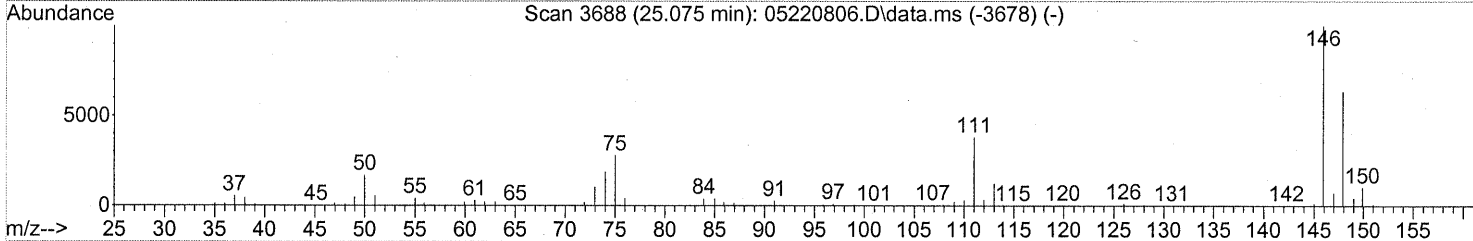
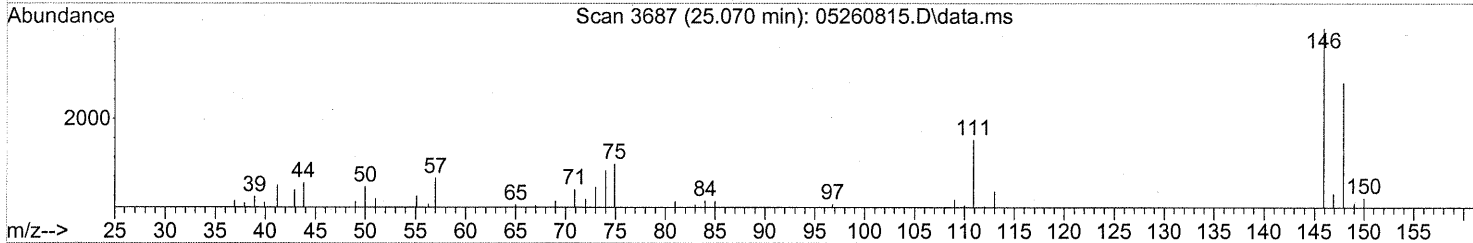
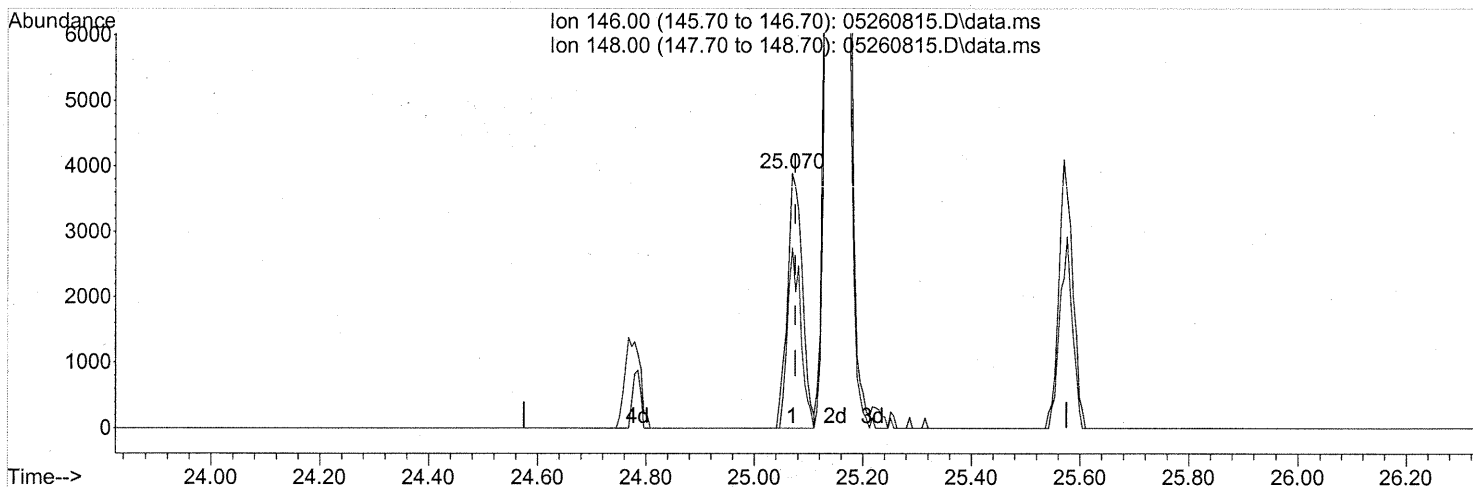
(70) o-Xylene (T)
 22.714min (+0.000) 0.12ng
 response 10511

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	48.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 11:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.070min (-0.006) 0.11ng

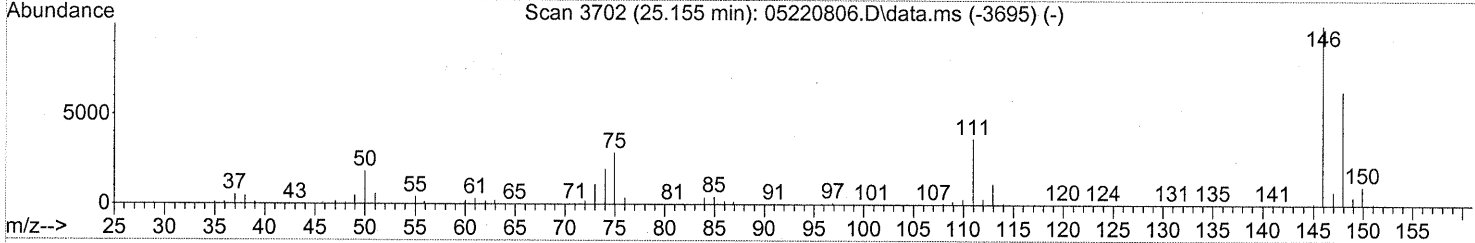
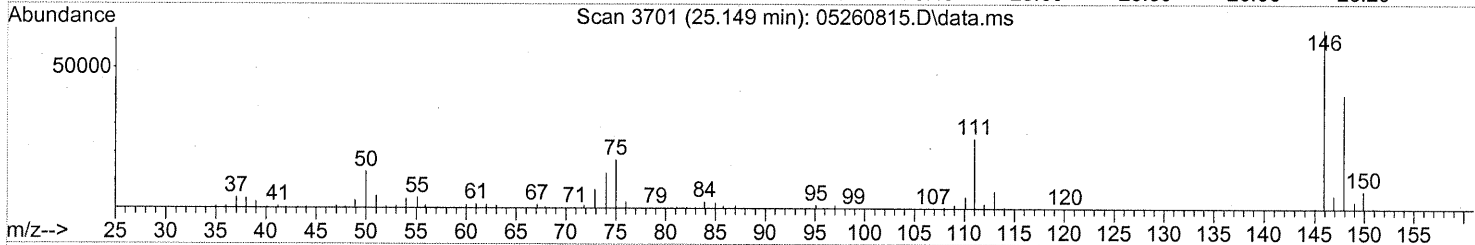
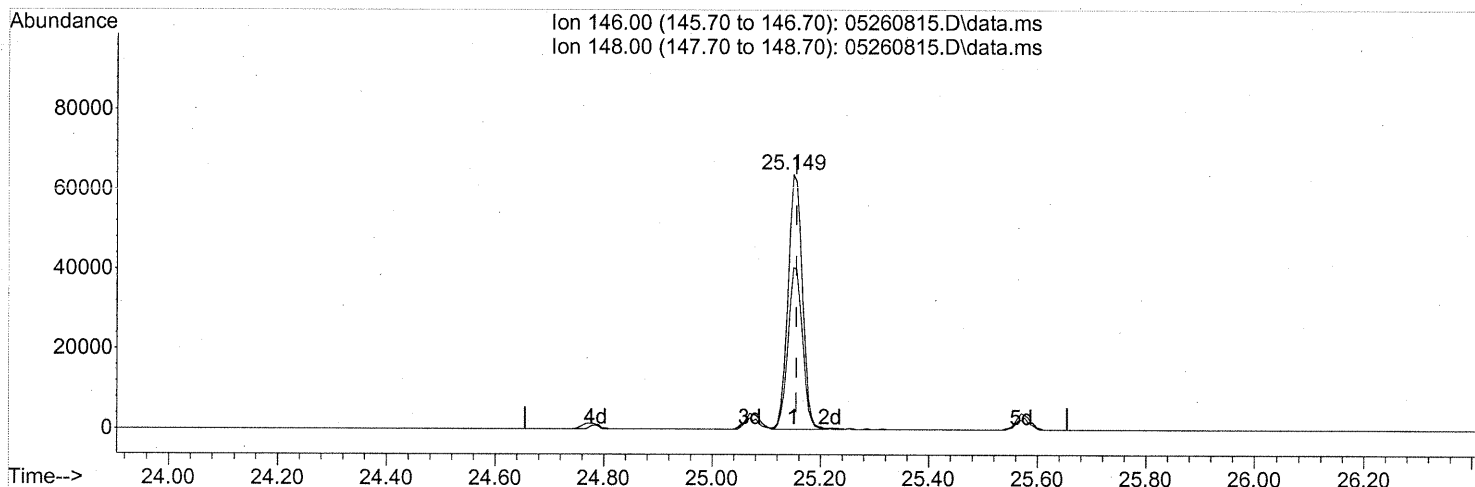
response 7426

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	62.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 11:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

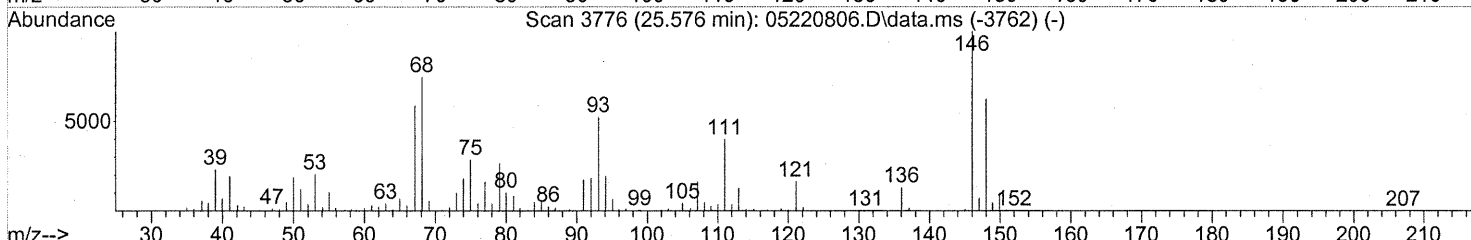
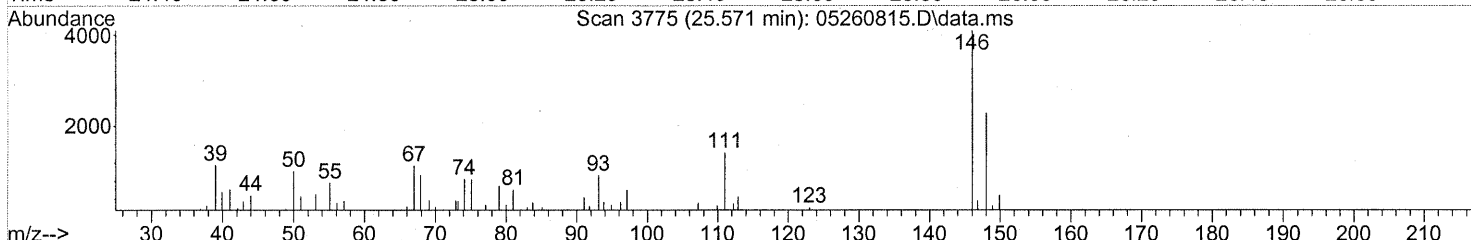
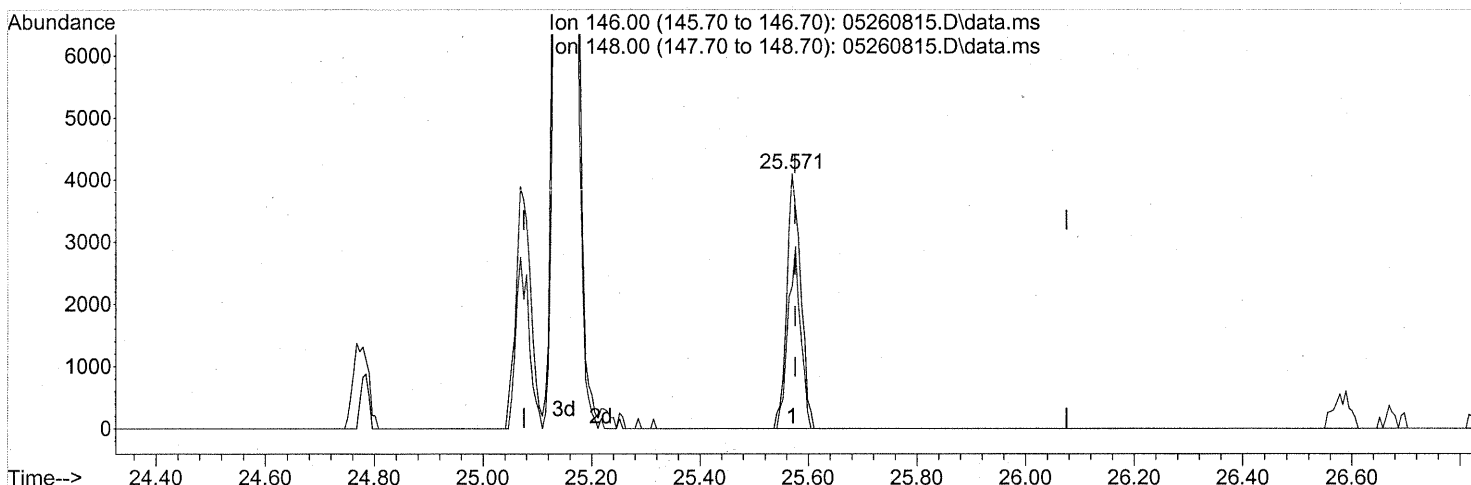
25.149min (-0.006) 1.76ng

response 117132

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.90
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 11:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

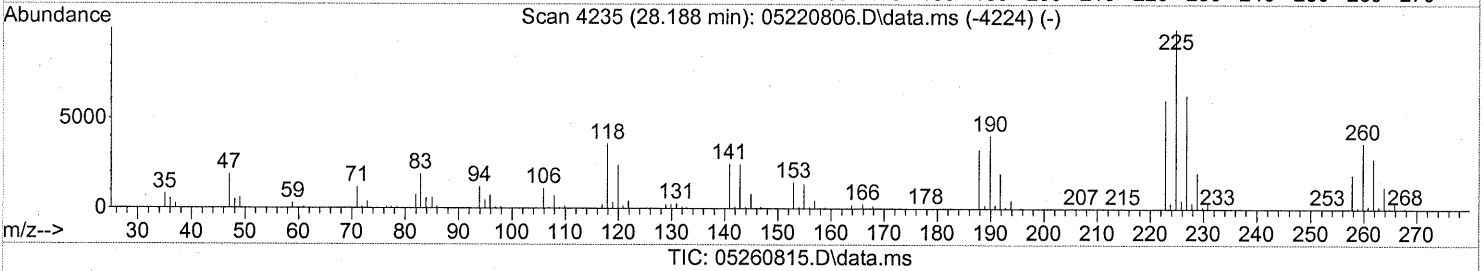
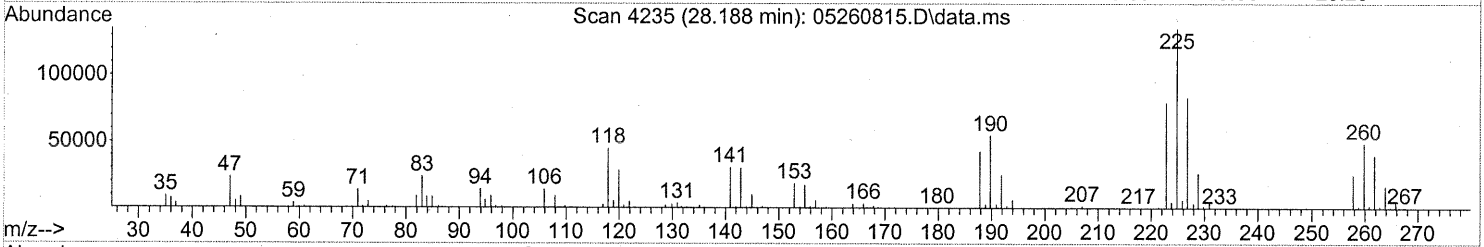
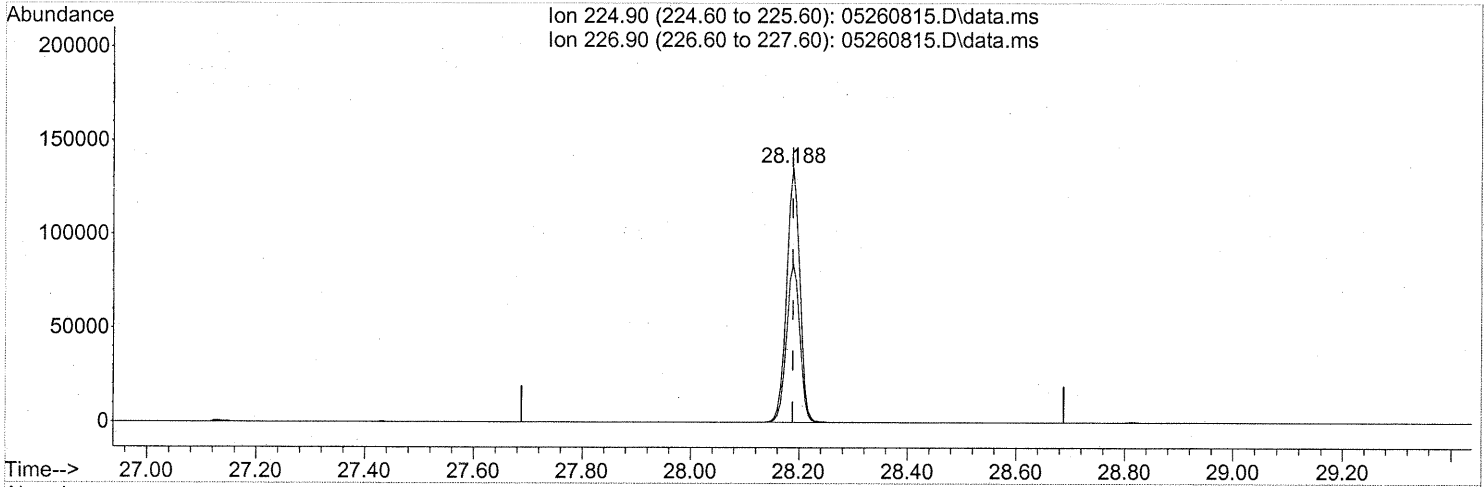
25.571min (-0.006) 0.11ng

response 7311

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	64.82
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 21:19
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 11:59:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

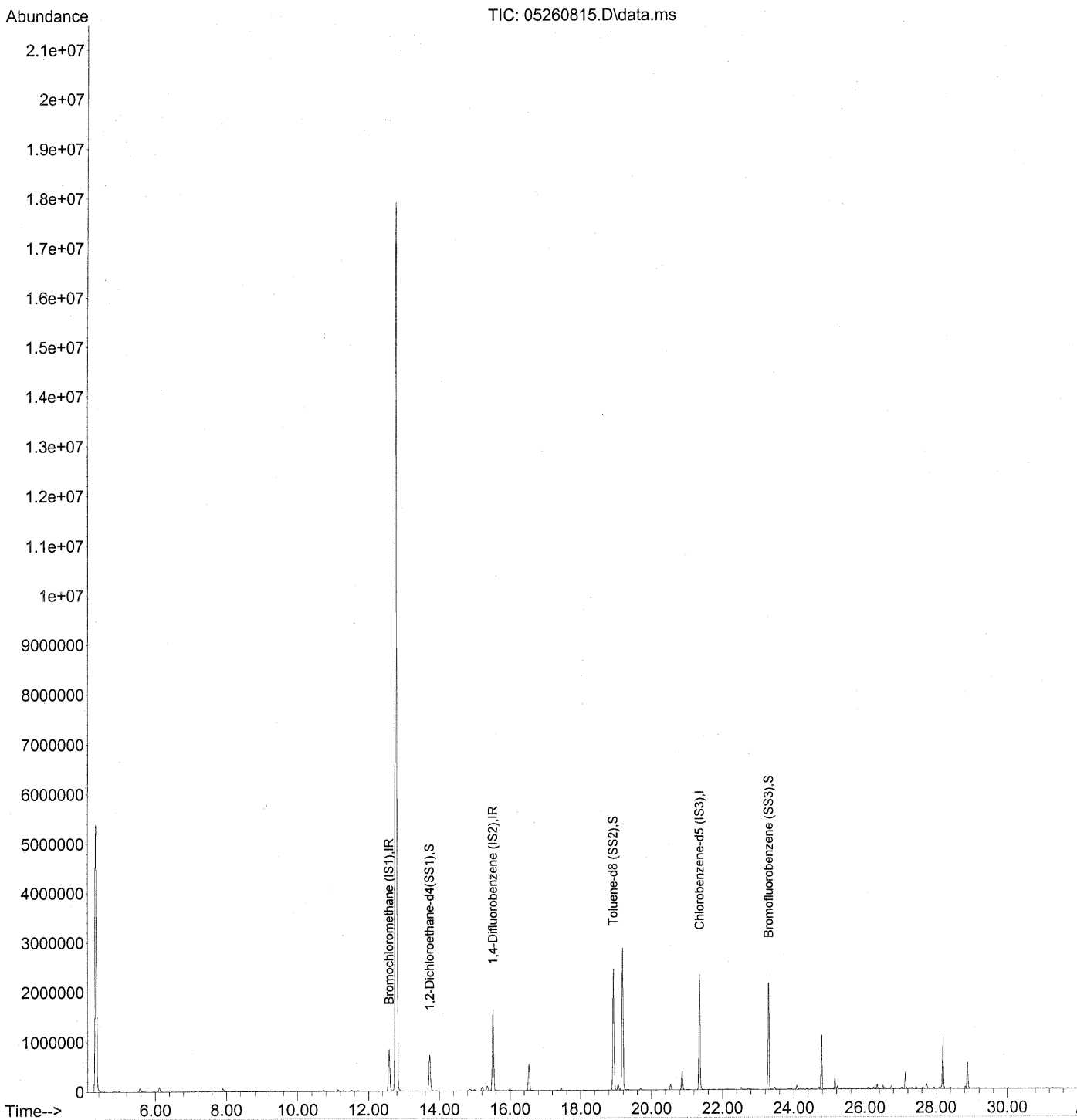
28.188min (+0.000) 7.15ng

response 227428

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	62.85
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 9:19 pm
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 13:02:25 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260815.D
 Acq On : 26 May 2008 9:19 pm
 Operator : WA
 Sample : P0801483-007 (200ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

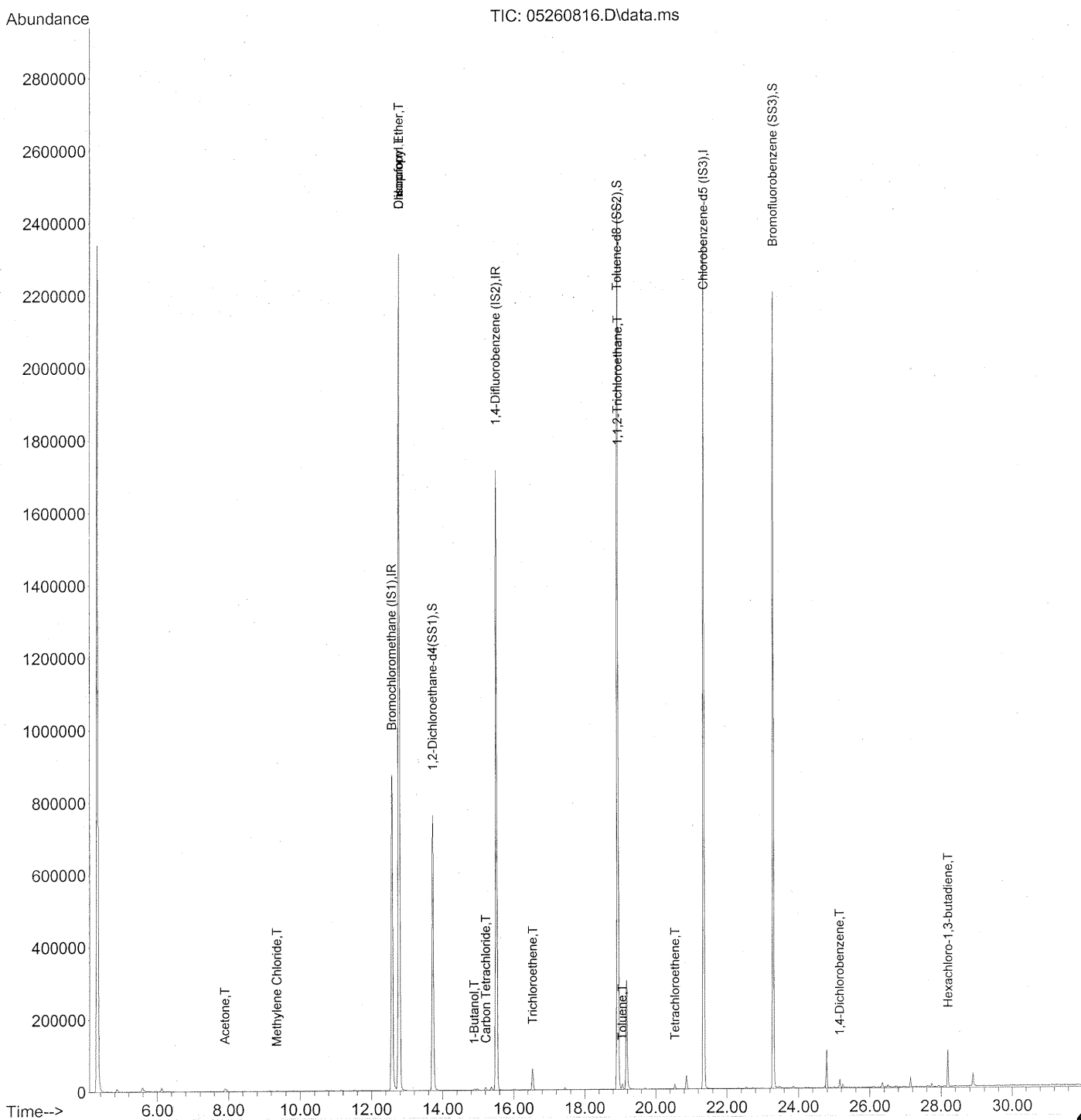
Quant Time: May 31 13:02:25 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	432519	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1890721	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	895550	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	732379	24.438	ng	-0.02
Spiked Amount	25.000		Recovery	=	97.76%	
5) Toluene-d8 (SS2)	18.92	98	2012064	25.017	ng	-0.02
Spiked Amount	25.000		Recovery	=	100.08%	
6) Bromofluorobenzene (SS3)	23.29	174	818494	25.025	ng	0.00
Spiked Amount	25.000		Recovery	=	100.12%	
Target Compounds						
7) tert-Butylbenzene	24.88	119	745	N.D.		Qvalue
8) n-Butylbenzene	25.90	91	2179	N.D.		

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

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260816.D
 Acq On : 26 May 2008 22:00
 Operator : WA
 Sample : P0801483-007 Dil (25ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260816.D
 Acq On : 26 May 2008 22:00
 Operator : WA
 Sample : P0801483-007 Dil (25ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	452319	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1975820	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	906180	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	779014	24.856	ng	0.00
Spiked Amount	25.000		Recovery =	99.44%		✓
57) Toluene-d8 (SS2)	18.92	98	2047819	25.162	ng	0.00
Spiked Amount	25.000		Recovery =	100.64%		✓
73) Bromofluorobenzene (SS3)	23.29	174	825949	24.957	ng	0.00
Spiked Amount	25.000		Recovery =	99.84%		✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.87	42	1541	N.D.		
3) Dichlorodifluoromethane	4.99	85	2153	N.D.		
4) Chloromethane	5.34	50	61	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.52	94	55	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.14	45	847	N.D.		
11) Acetonitrile	7.50	41	1848	N.D.		
12) Acrolein	7.69	56	369	N.D.		
13) Acetone	7.89	58	6326	0.260	ng	90
14) Trichlorofluoromethane	8.16	101	1013	N.D.		
15) Isopropanol	8.36	45	926	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.15	96	373	N.D.		
18) tert-Butanol	9.31	59	69	N.D.		
19) Methylene Chloride	9.35	84	1443	0.053	ng	# 64
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.79	76	2230	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.73	72	321	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	245789	11.287	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.70	57	172	N.D.		

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260816.D
 Acq On : 26 May 2008 22:00
 Operator : WA
 Sample : P0801483-007 Dil (25ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	2403238	58.266	ng	98
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.74	62	313	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	3316	0.122	ng #	50
41) Benzene	14.99	78	4094	N.D.		
42) Carbon Tetrachloride	15.21	117	6890	0.173	ng	100
43) Cyclohexane	15.39	84	67	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.45	83	62	N.D.		
47) Trichloroethene	16.53	130	28365	0.894	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.61	57	130	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	179049	7.004	ng #	7
58) Toluene	19.05	91	13976	0.126	ng	99
59) 2-Hexanone	19.33	43	57	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.35	43	70	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.55	166	5052	0.154	ng	100
65) Chlorobenzene	21.41	112	2173	N.D.		
66) Ethylbenzene	21.88	91	1222	N.D.		
67) m- & p-Xylene	22.11	91	1673	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.58	104	53	N.D.		
70) o-Xylene	22.71	91	1121	N.D.		
71) n-Nonane	22.98	43	258	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.96	83	165	N.D.		
74) Cumene	23.46	105	75	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.12	91	137	N.D.		
77) 3-Ethyltoluene	24.23	105	128	N.D.		
78) 4-Ethyltoluene	24.28	105	192	N.D.		
79) 1,3,5-Trimethylbenzene	24.38	105	243	N.D.		

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260816.D
 Acq On : 26 May 2008 22:00
 Operator : WA
 Sample : P0801483-007 Dil (25ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

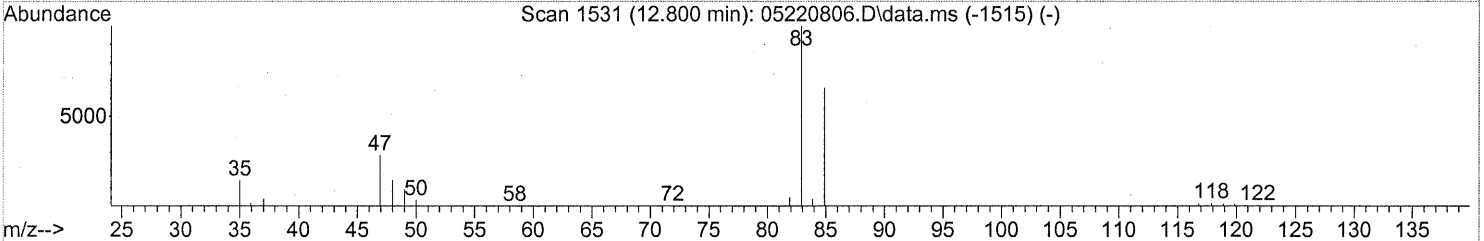
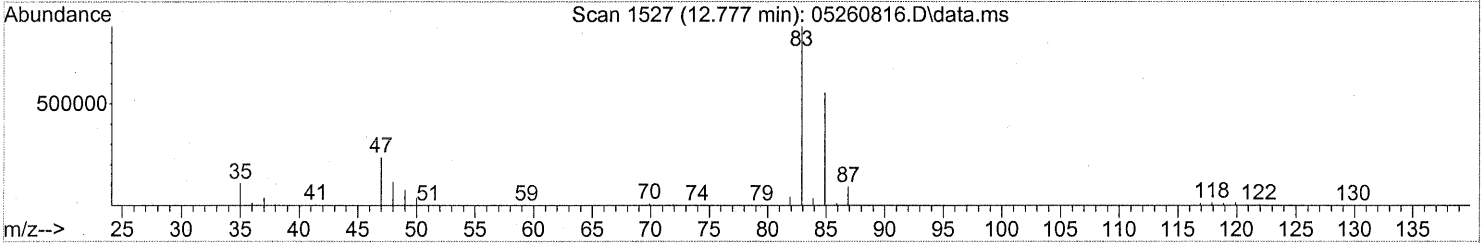
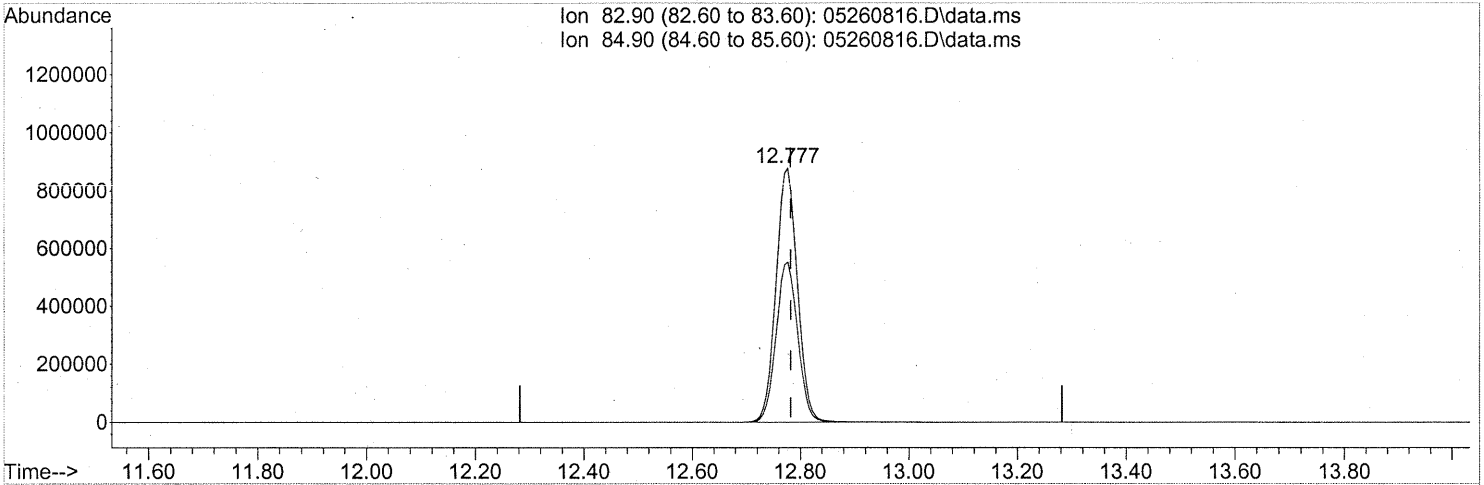
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.79	118	1255		N.D.	
81) 2-Ethyltoluene	24.61	105	257		N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	812		N.D.	
83) n-Decane	24.98	57	909		N.D.	
84) Benzyl Chloride	0.00	91	0		N.D.	
85) 1,3-Dichlorobenzene	25.08	146	747		N.D.	
86) 1,4-Dichlorobenzene	25.15	146	13454	0.199	ng	98
87) sec-Butylbenzene	25.41	105	412		N.D.	
88) p-Isopropyltoluene	25.41	119	57		N.D.	
89) 1,2,3-Trimethylbenzene	25.41	105	412		N.D.	
90) 1,2-Dichlorobenzene	25.58	146	877		N.D.	
91) d-Limonene	25.58	68	185		N.D.	
92) 1,2-Dibromo-3-Chloropr...	26.25	157	53		N.D.	
93) n-Undecane	26.50	57	3201		N.D.	
94) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
95) Naphthalene	27.79	128	1077		N.D.	
96) n-Dodecane	27.74	57	2912		N.D.	
97) Hexachloro-1,3-butadiene	28.19	225	22903	0.712	ng	98

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

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260816.D
 Acq On : 26 May 2008 22:00
 Operator : WA
 Sample : P0801483-007 Dil (25ml)
 Misc : ENSR SG26B-05D (-5.3, 3.5)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 27 06:13:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)
 12.777min (-0.006) 58.27ng
 response 2403238

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.41
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG28B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00632

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/26/08
 Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	5.3	0.53	0.42	1.1	0.11	J
74-87-3	Chloromethane	ND	1.1	0.53	ND	0.51	0.26	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	5.3	0.53	ND	0.76	0.076	
75-01-4	Vinyl Chloride	ND	1.1	0.53	ND	0.41	0.21	
74-83-9	Bromomethane	ND	1.1	0.53	ND	0.27	0.14	
75-00-3	Chloroethane	ND	1.1	0.53	ND	0.40	0.20	
64-17-5	Ethanol	3.2	53	0.53	1.7	28	0.28	J
67-64-1	Acetone	22	53	0.77	9.2	22	0.33	J, B
75-69-4	Trichlorofluoromethane	1.2	1.1	0.53	0.21	0.19	0.094	
107-13-1	Acrylonitrile	ND	5.3	0.74	ND	2.4	0.34	
75-35-4	1,1-Dichloroethene	26	1.1	0.53	6.7	0.27	0.13	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	5.3	0.78	ND	1.7	0.26	
75-09-2	Methylene Chloride	0.87	5.3	0.53	0.25	1.5	0.15	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.1	0.53	ND	0.34	0.17	
76-13-1	Trichlorotrifluoroethane	ND	1.1	0.59	ND	0.14	0.077	
75-15-0	Carbon Disulfide	2.9	5.3	1.3	0.95	1.7	0.41	J
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.53	ND	0.27	0.13	
75-34-3	1,1-Dichloroethane	0.84	1.1	0.53	0.21	0.26	0.13	J
1634-04-4	Methyl tert-Butyl Ether	ND	1.1	0.53	ND	0.29	0.15	
108-05-4	Vinyl Acetate	4.3	53	1.7	1.2	15	0.48	J
78-93-3	2-Butanone (MEK)	4.3	5.3	0.53	1.5	1.8	0.18	J
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.53	ND	0.27	0.13	
108-20-3	Diisopropyl Ether	ND	5.3	0.63	ND	1.3	0.15	
67-66-3	Chloroform	5,900	1.1	0.63	1,200	0.22	0.13	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG28B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00632

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/26/08
 Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.59

CAS #	Compound	Result μg/m ³	MRL μg/m ³	MDL μg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	5.3	0.54	ND	1.3	0.13	
107-06-2	1,2-Dichloroethane	ND	1.1	0.53	ND	0.26	0.13	
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.53	ND	0.19	0.097	
71-43-2	Benzene	3.1	1.1	0.53	0.96	0.33	0.17	
56-23-5	Carbon Tetrachloride	25	1.1	0.53	4.0	0.17	0.084	
994-05-8	tert-Amyl Methyl Ether	ND	5.3	0.53	ND	1.3	0.13	
78-87-5	1,2-Dichloropropane	ND	1.1	0.53	ND	0.23	0.11	
75-27-4	Bromodichloromethane	1.5	1.1	0.53	0.22	0.16	0.079	
79-01-6	Trichloroethene	580	1.1	0.53	110	0.20	0.099	
123-91-1	1,4-Dioxane	ND	5.3	0.65	ND	1.5	0.18	
80-62-6	Methyl Methacrylate	ND	5.3	0.80	ND	1.3	0.19	
142-82-5	n-Heptane	ND	5.3	0.68	ND	1.3	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	0.55	ND	1.2	0.12	
108-10-1	4-Methyl-2-pentanone	ND	5.3	0.59	ND	1.3	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	0.67	ND	1.2	0.15	
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.53	ND	0.19	0.097	
108-88-3	Toluene	1.9	5.3	0.53	0.51	1.4	0.14	J
591-78-6	2-Hexanone	ND	5.3	0.81	ND	1.3	0.20	
124-48-1	Dibromochloromethane	ND	1.1	0.72	ND	0.12	0.085	
106-93-4	1,2-Dibromoethane	ND	1.1	0.57	ND	0.14	0.075	
111-65-9	n-Octane	ND	5.3	0.53	ND	1.1	0.11	
127-18-4	Tetrachloroethene	41	1.1	0.53	6.1	0.16	0.078	
108-90-7	Chlorobenzene	1.3	1.1	0.54	0.29	0.23	0.12	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG28B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00632

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/26/08
 Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	5.3	0.66	ND	1.2	0.15	
179601-23-1	m,p-Xylenes	ND	5.3	1.4	ND	1.2	0.32	
75-25-2	Bromoform	ND	5.3	0.81	ND	0.51	0.078	
100-42-5	Styrene	ND	5.3	0.81	ND	1.2	0.19	
95-47-6	o-Xylene	0.92	5.3	0.67	0.21	1.2	0.15	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.68	ND	0.15	0.099	
98-82-8	Cumene	ND	5.3	0.59	ND	1.1	0.12	
103-65-1	n-Propylbenzene	ND	5.3	0.55	ND	1.1	0.11	
622-96-8	4-Ethyltoluene	ND	5.3	0.60	ND	1.1	0.12	
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	0.64	ND	1.1	0.13	
98-83-9	alpha-Methylstyrene	ND	5.3	0.77	ND	1.1	0.16	
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	0.73	ND	1.1	0.15	
100-44-7	Benzyl Chloride	ND	1.1	0.91	ND	0.20	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.66	ND	0.18	0.11	
106-46-7	1,4-Dichlorobenzene	3.7	1.1	0.59	0.61	0.18	0.099	
135-98-8	sec-Butylbenzene	ND	5.3	0.61	ND	0.97	0.11	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	5.3	0.69	ND	0.97	0.13	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.70	ND	0.18	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.3	0.81	ND	0.55	0.083	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.81	ND	0.14	0.11	
91-20-3	Naphthalene	1.1	2.1	0.78	0.21	0.40	0.15	J
87-68-3	Hexachlorobutadiene	ND	1.1	0.95	ND	0.099	0.089	
98-06-6	tert-Butylbenzene	ND	2.1	0.53	ND	0.39	0.097	
104-51-8	n-Butylbenzene	ND	2.1	0.53	ND	0.39	0.097	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

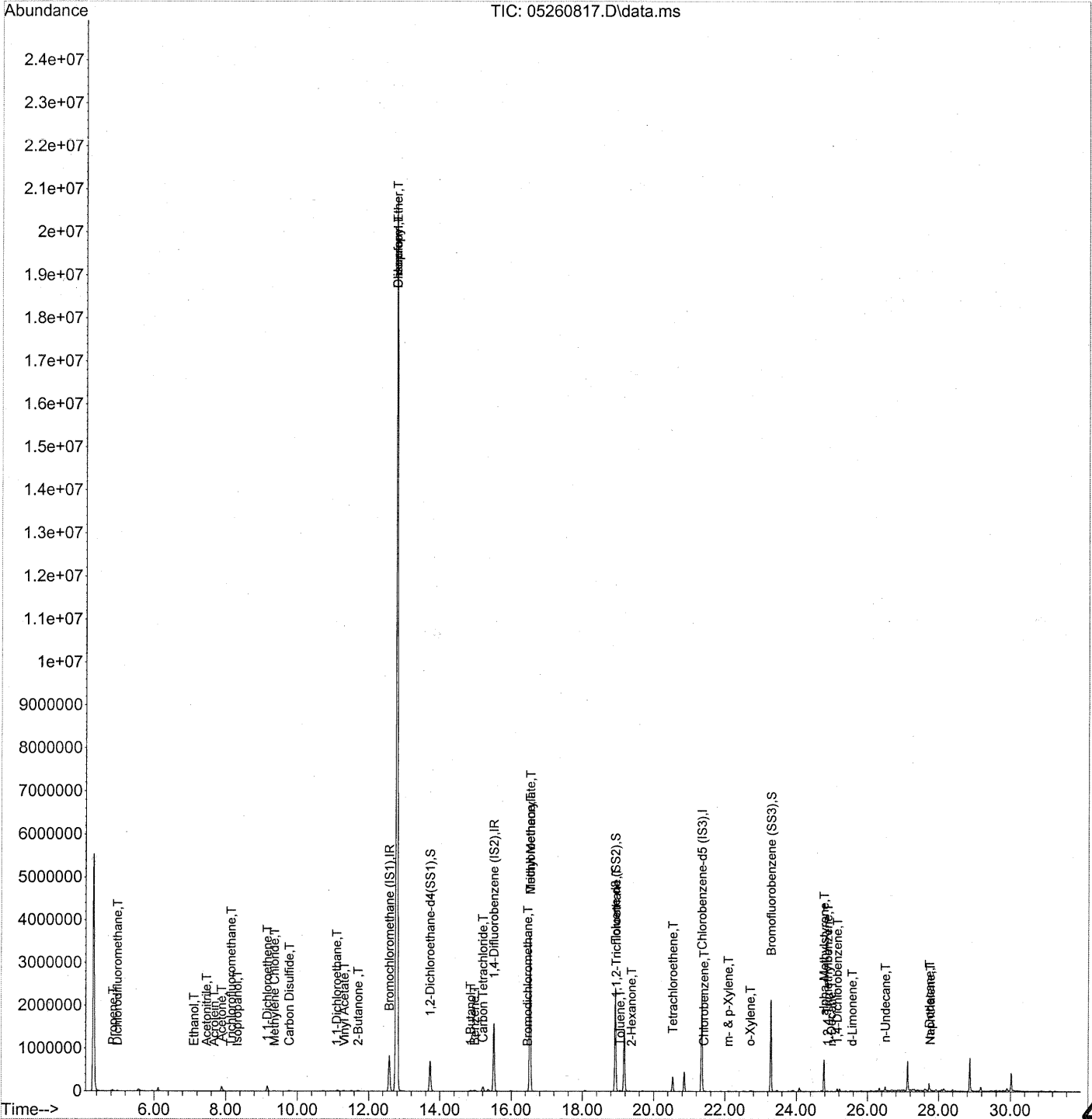
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

420

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-008 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 06:55:50 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



421

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-008 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 06:55:50 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	434582	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1840194	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	878797	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.73	65	707557	23.497	ng	0.00
Spiked Amount	25.000		Recovery	=	94.00%	✓
57) Toluene-d8 (SS2)	18.93	98	1957129	24.797	ng	0.00
Spiked Amount	25.000		Recovery	=	99.20%	✓
73) Bromofluorobenzene (SS3)	23.29	174	793099	24.711	ng	0.00
Spiked Amount	25.000		Recovery	=	98.84%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	6805	0.198	ng	# 18
3) Dichlorodifluoromethane	4.98	85	12402	0.196	ng	99
4) Chloromethane	5.32	50	974	N.D.	✓	
5) Freon 114	5.56	135	57	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.03	54	287	N.D.	✓	
8) Bromomethane	6.52	94	248	N.D.	✓	
9) Chloroethane	6.83	64	222	N.D.	✓	
10) Ethanol	7.11	45	6997m	0.306	ng	
11) Acetonitrile	7.46	41	7079	0.107	ng	84
12) Acrolein	7.68	56	1778	0.109	ng	99
13) Acetone	7.89	58	48121m	2.057	ng	
14) Trichlorofluoromethane	8.15	101	6111	0.113	ng	98
15) Isopropanol	8.33	45	4963	0.067	ng	83
16) Acrylonitrile	8.69	53	58	N.D.	✓	
17) 1,1-Dichloroethene	9.16	96	59524	2.493	ng	# 81
18) tert-Butanol	9.28	59	3111	N.D.	✓	
19) Methylene Chloride	9.36	84	2140	0.082	ng	86
20) Allyl Chloride	9.50	41	54	N.D.	✓	
21) Trichlorotrifluoroethane	9.80	151	1000	N.D.	✓	
22) Carbon Disulfide	9.77	76	27616m	0.278	ng	
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
24) 1,1-Dichloroethane	11.11	63	3565	0.079	ng	98
25) Methyl tert-Butyl Ether	11.23	73	757	N.D.	✓	
26) Vinyl Acetate	11.31	86	1769m	0.409	ng	
27) 2-Butanone	11.71	72	6983	0.409	ng	100
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.79	87	2697727	128.940	ng UR	# 1
30) Ethyl Acetate	12.76	61	65	N.D.	✓	
31) n-Hexane	12.70	57	561	N.D.	✓	

422

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-008 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 06:55:50 2008

Quant Method : J:\MS13\METHODS\R13052208.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu May 22 11:37:04 2008

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.79	83	22272781	562.039	ng <i>ex dil</i>	93
34) Tetrahydrofuran	13.41	72	90	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.73	62	485	N.D.	✓	
38) 1,1,1-Trichloroethane	14.30	97	772	N.D.	✓	
39) Isopropyl Acetate	14.98	61	83	N.D.		
40) 1-Butanol	14.87	56	19817	0.783	ng	92
41) Benzene	14.98	78	27900	0.290	ng	98
42) Carbon Tetrachloride	15.21	117	88126	2.375	ng	96
43) Cyclohexane	15.42	84	586	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	16.20	63	718	N.D.	✓	
46) Bromodichloromethane	16.46	83	4584	0.141	ng	95
47) Trichloroethene	16.53	130	1605679	54.324	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.	✓	
49) Isooctane	16.62	57	454	N.D.		
50) Methyl Methacrylate	16.54	100	4061	0.422	ng <i>NR#</i>	1
51) n-Heptane	0.00	71	0	N.D.	✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.78	58	567	N.D.	✓	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.95	97	174616	7.334	ng <i>NR#</i>	9
58) Toluene	19.06	91	19267	0.180	ng	95
59) 2-Hexanone	19.38	43	4029	0.055	ng <i>NR#</i>	57
60) Dibromochloromethane	0.00	129	0	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.27	43	69	N.D.		
63) n-Octane	0.00	57	0	N.D.	✓	
64) Tetrachloroethene	20.55	166	123460	3.889	ng	100
65) Chlorobenzene	21.41	112	8891	0.124	ng	100
66) Ethylbenzene	21.89	91	4546	N.D.	✓	
67) m- & p-Xylene	22.09	91	9924	0.121	ng	94
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	22.57	104	376	N.D.	✓	
70) o-Xylene	22.71	91	7737	0.087	ng	96
71) n-Nonane	22.98	43	994	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.70	83	57	N.D.	✓	
74) Cumene	23.48	105	892	N.D.	✓	
75) alpha-Pinene	23.96	93	255	N.D.		
76) n-Propylbenzene	24.10	91	1472	N.D.	✓	
77) 3-Ethyltoluene	24.23	105	2454	N.D.		
78) 4-Ethyltoluene	24.28	105	1817	N.D.	✓	
79) 1,3,5-Trimethylbenzene	24.37	105	1352	N.D.	✓	

423

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-008 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

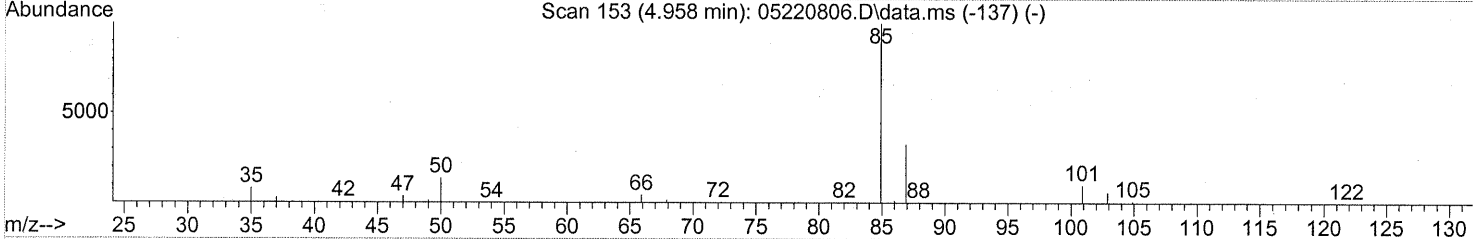
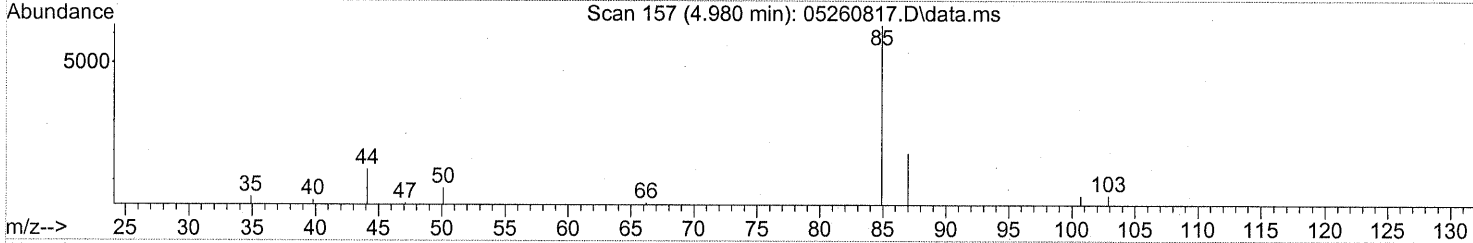
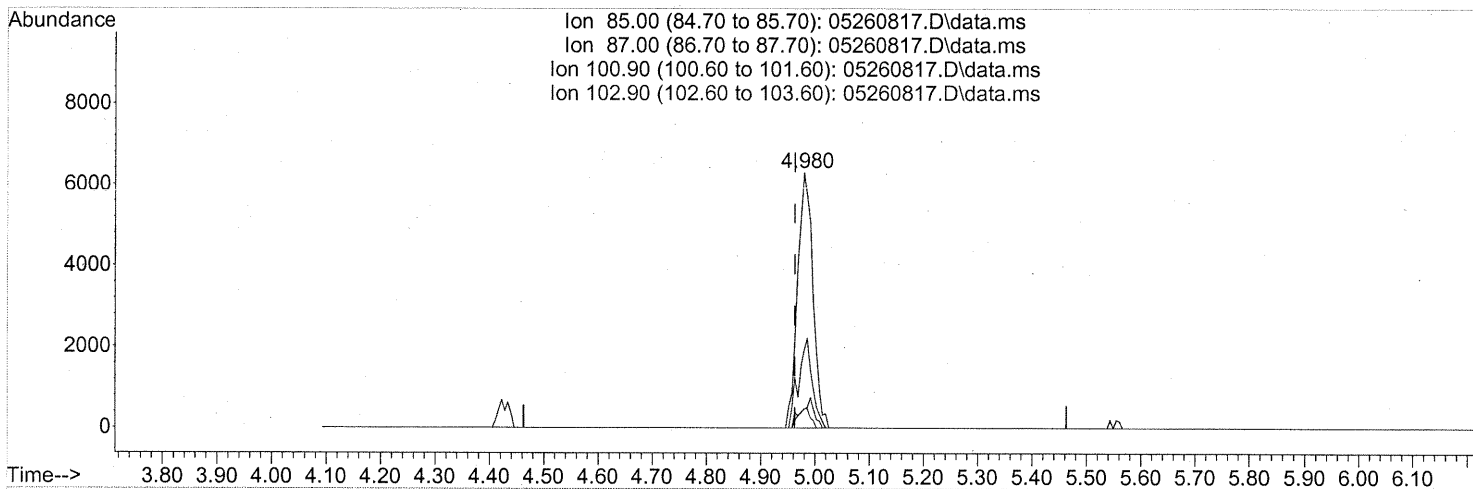
Quant Time: Jun 03 06:55:50 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.78	118	11524	0.201 ng	NR#	38
81) 2-Ethyltoluene	24.61	105	1642	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	5740	0.053 ng		91
83) n-Decane	24.98	57	5246	0.088 ng		84
84) Benzyl Chloride	25.17	91	155	N.D. ✓		
85) 1,3-Dichlorobenzene	25.09	146	419	N.D. ✓		
86) 1,4-Dichlorobenzene	25.16	146	22627	0.346 ng		96
87) sec-Butylbenzene	25.21	105	114	N.D. ✓		
88) p-Isopropyltoluene	25.40	119	1298	N.D. ✓		
89) 1,2,3-Trimethylbenzene	25.41	105	2683	N.D. ✓		
90) 1,2-Dichlorobenzene	25.57	146	1283	N.D. ✓		
91) d-Limonene	25.57	68	2368	0.055 ng	#	74
92) 1,2-Dibromo-3-Chloropr...	26.50	157	67	N.D. ✓		
93) n-Undecane	26.50	57	31027	0.499 ng	#	65
94) 1,2,4-Trichlorobenzene	27.61	180	68	N.D. ✓		
95) Naphthalene	27.77	128	14819	0.104 ng		94
96) n-Dodecane	27.74	57	54718	0.885 ng		81
97) Hexachloro-1,3-butadiene	28.18	225	1383	N.D. ✓		

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

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.980min (+0.017) 0.20ng

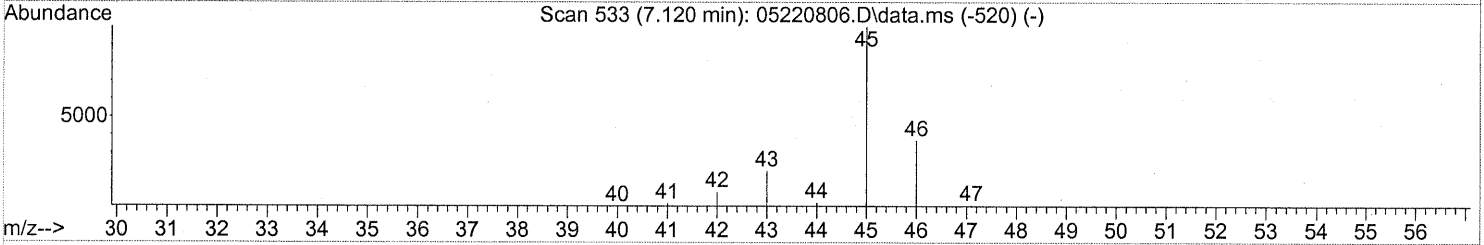
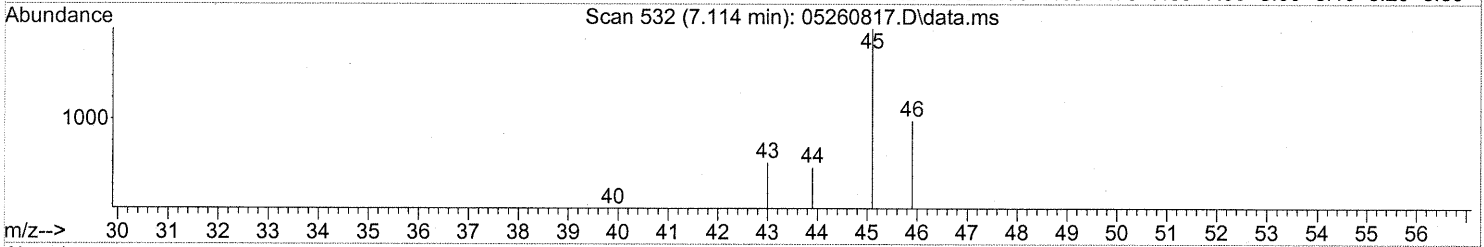
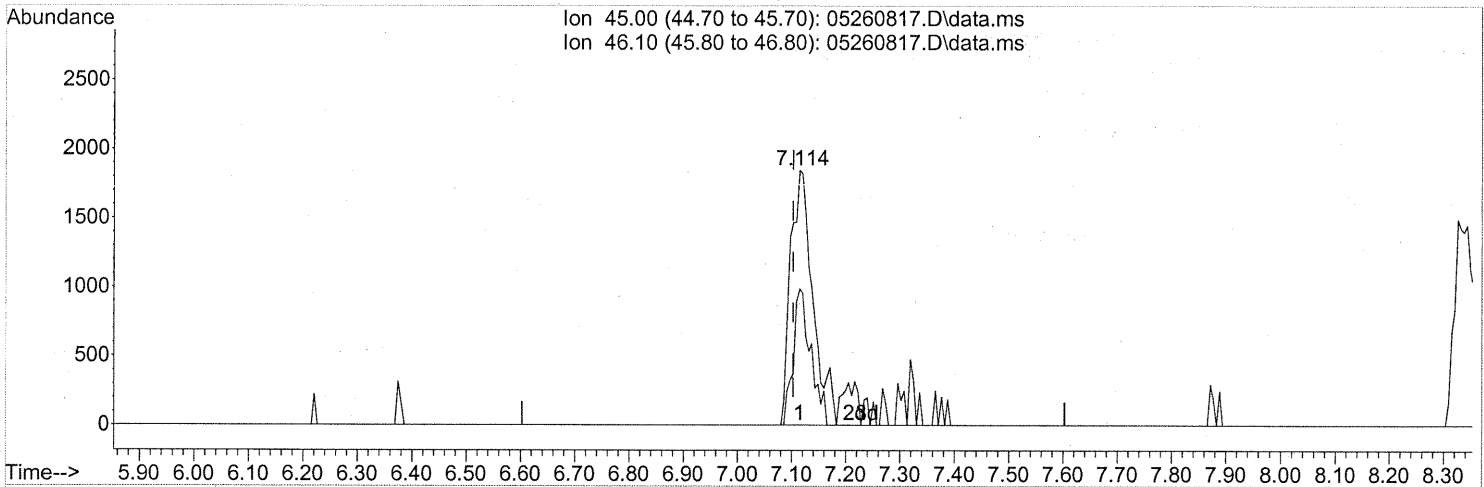
response 12402

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.73
100.90	9.30	9.90
102.90	6.00	6.10

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260817.D
Acq On : 26 May 2008 22:41
Operator : WA
Sample : P0801483-08 (150ml)
Misc : ENSR SG28B-05D (-3.2, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.114min (+0.011) 0.23ng

response 5260

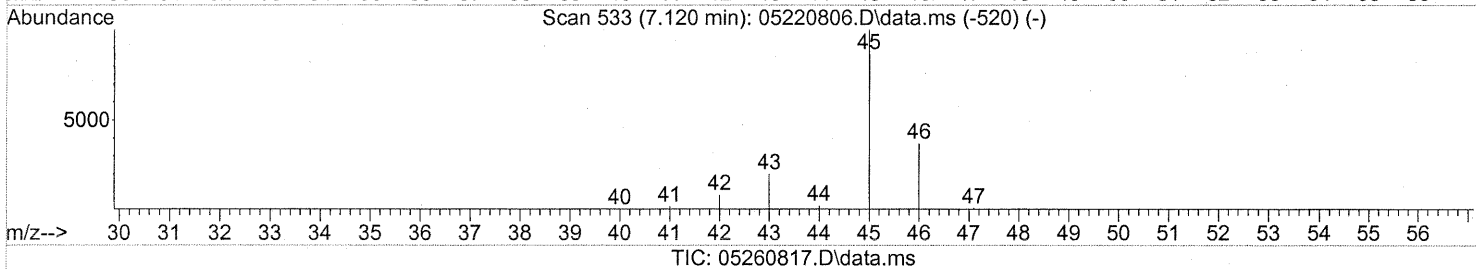
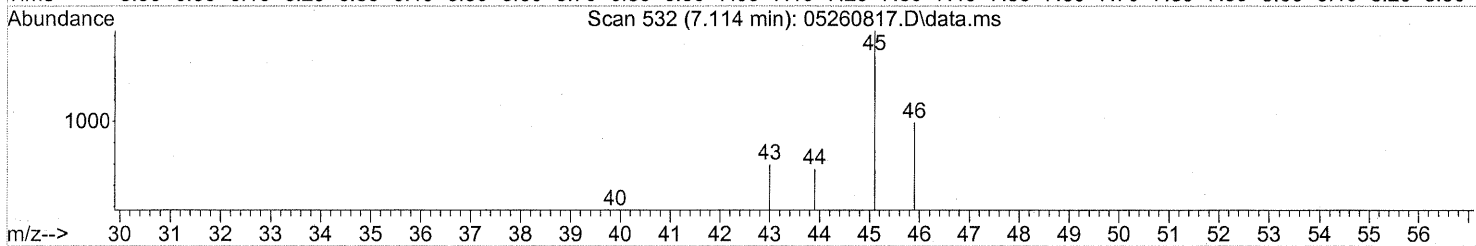
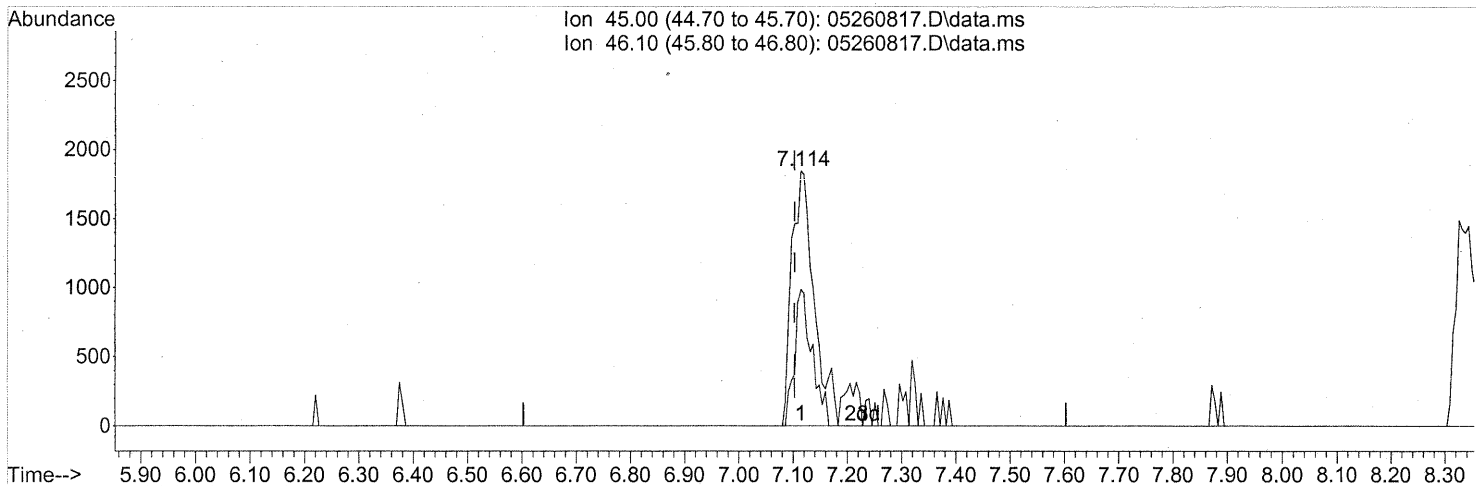
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	42.19
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 12:16:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.114min (+0.011) 0.31ng m

response 6997

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	31.71
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

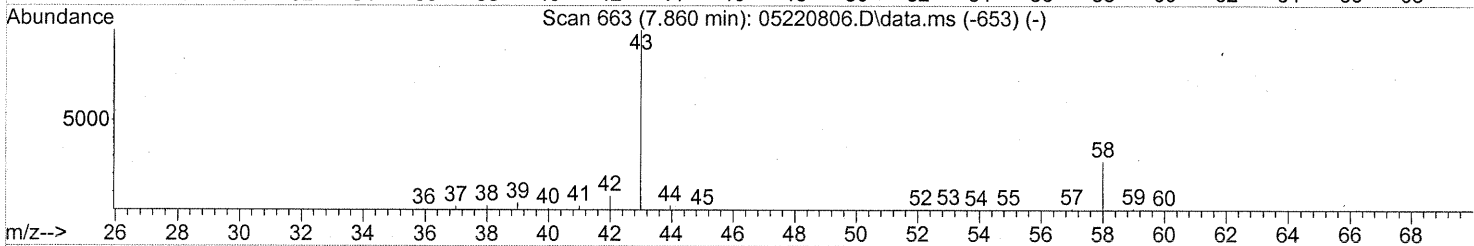
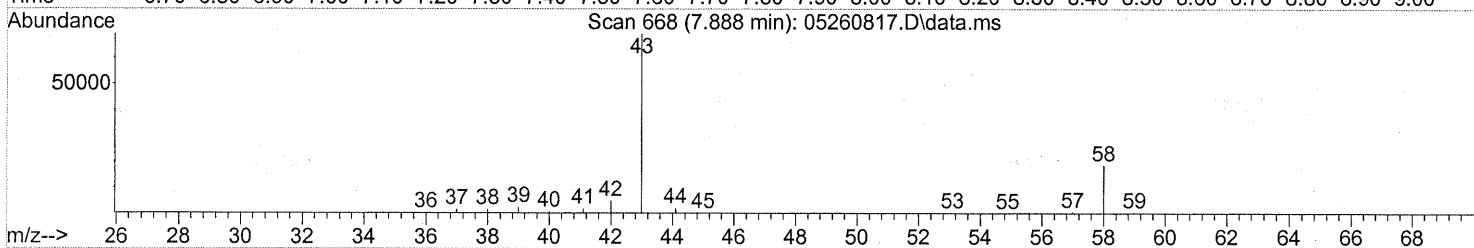
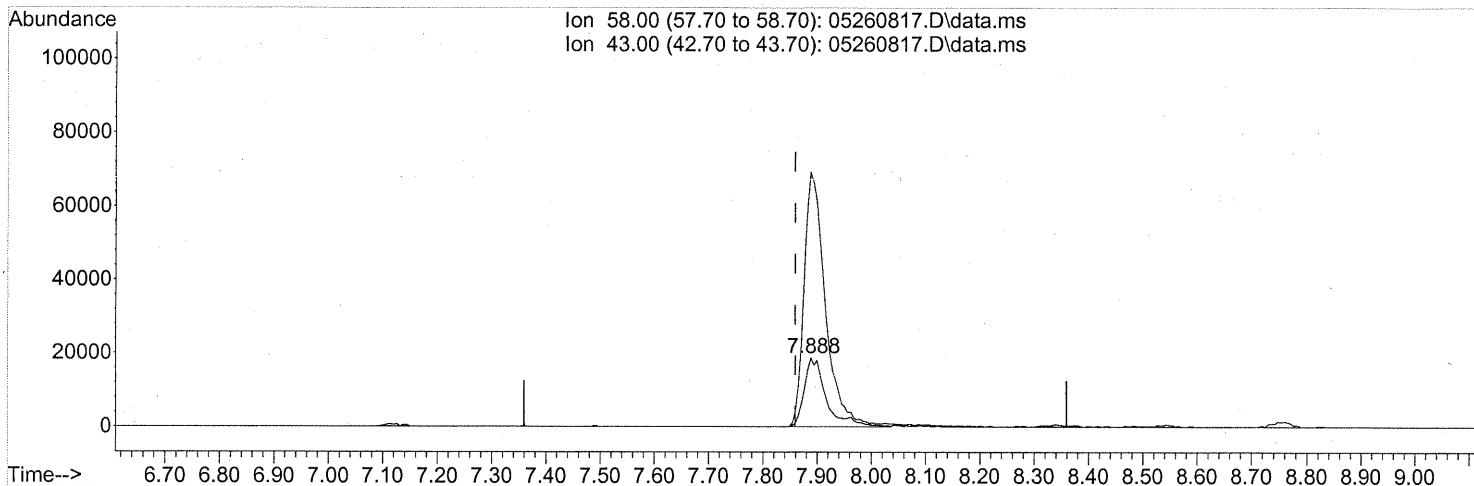
IDA 6/2/08

P 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(13) Acetone (T)

7.888min (+0.028) 2.24ng

response 52301

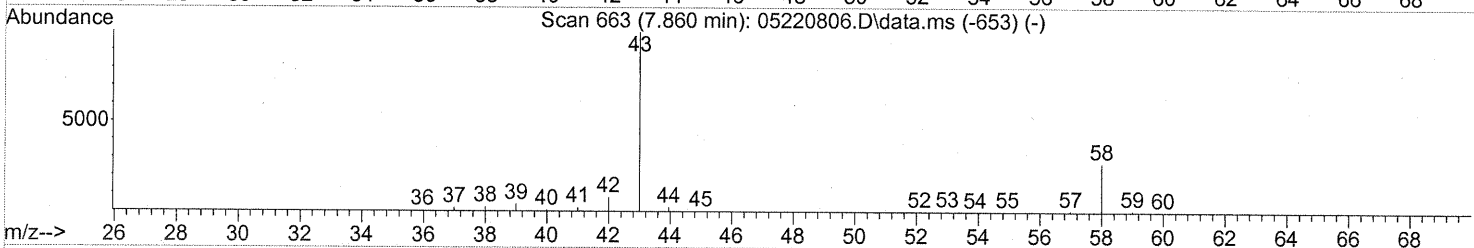
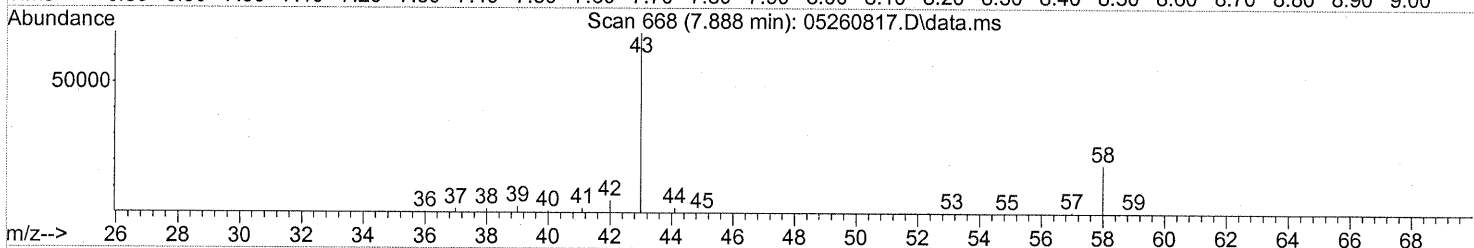
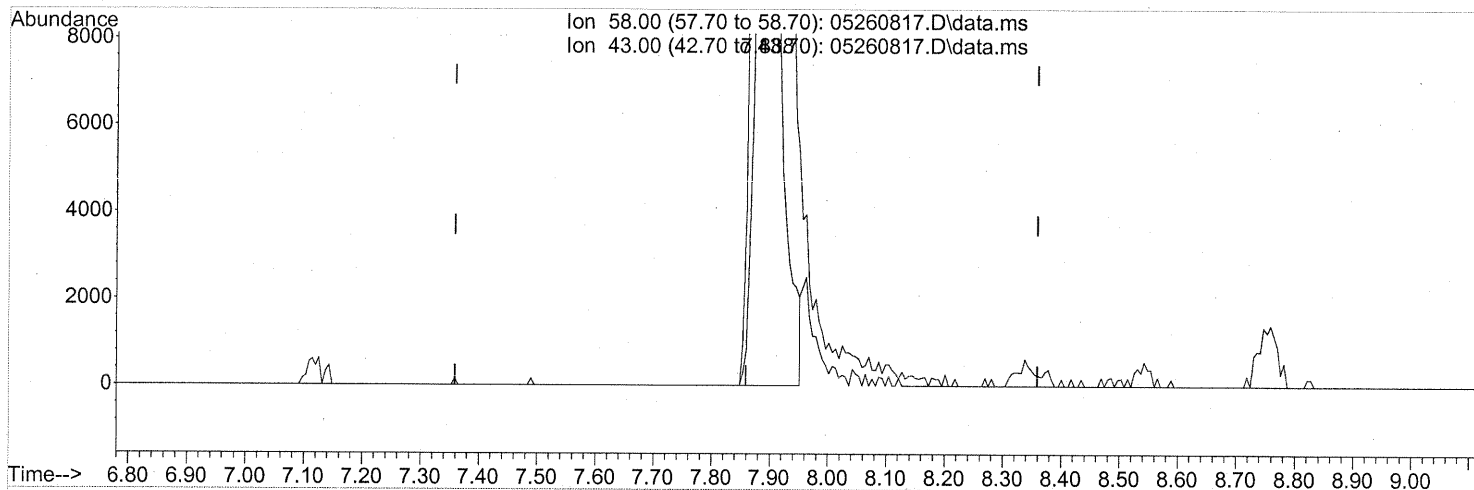
interf. peak

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	369.89#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 12:16:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260817.D\data.ms

(13) Acetone (T)

7.888min (+0.028) 2.06ng m

response 48121

no interf. shoulder

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	402.02#
0.00	0.00	0.00
0.00	0.00	0.00

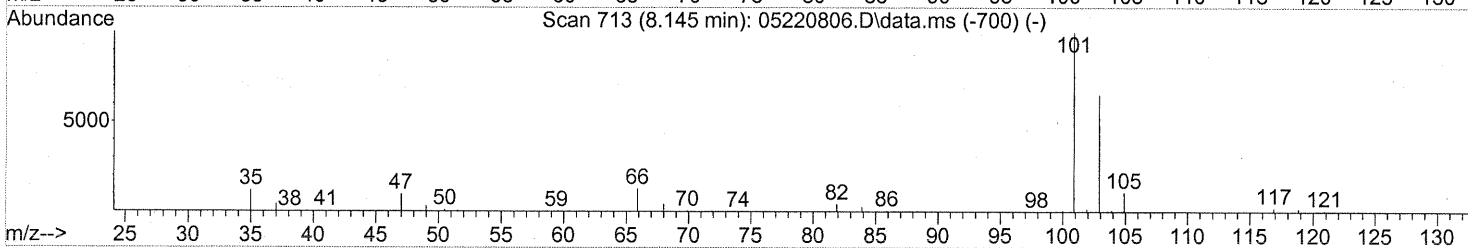
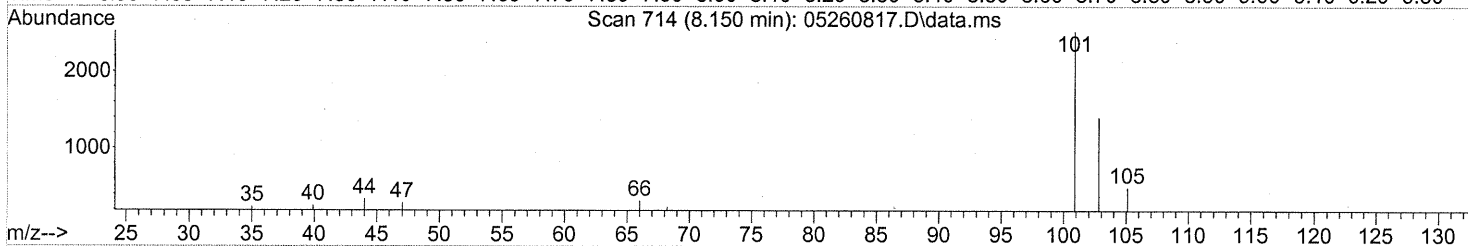
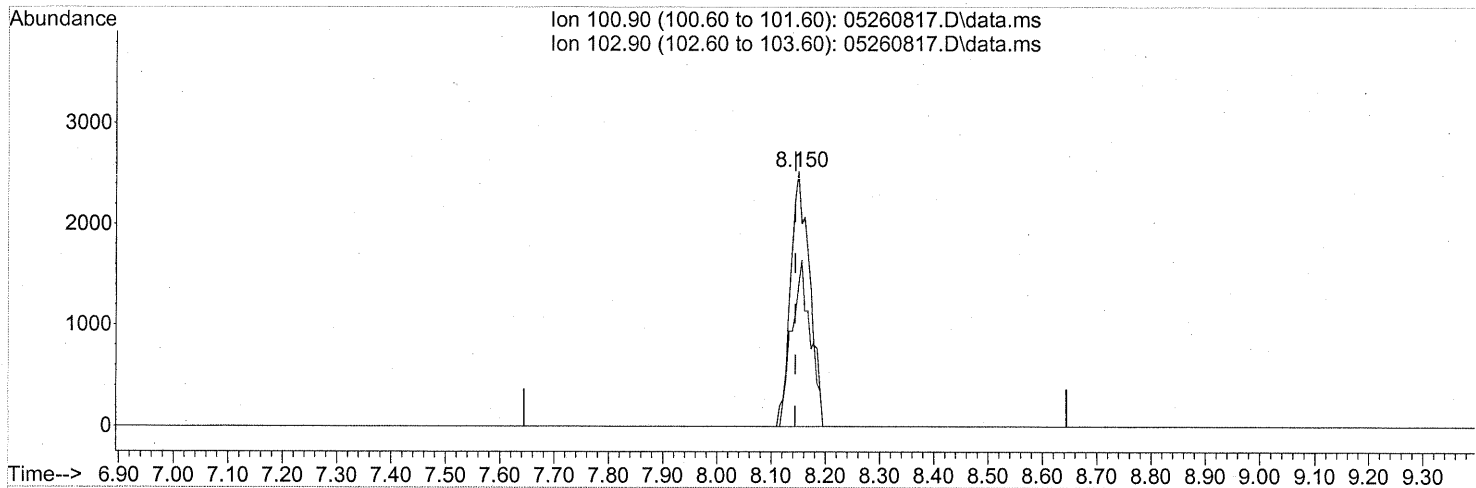
WA 6/2/08

R 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260817.D\data.ms

(14) Trichlorofluoromethane (T)

8.150min (+0.006) 0.11ng

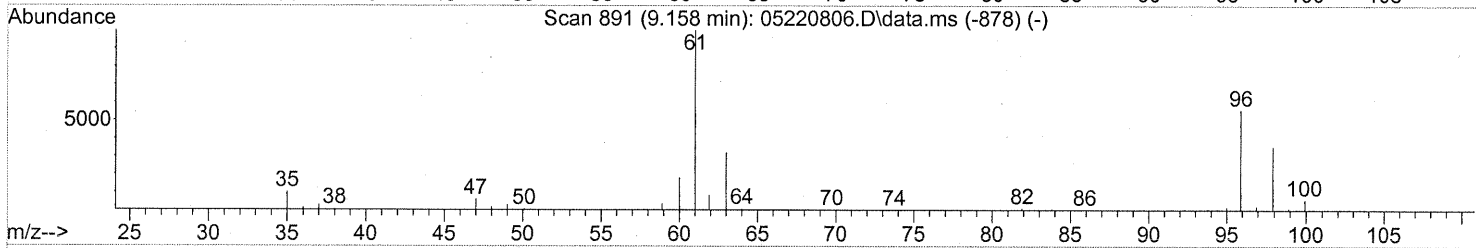
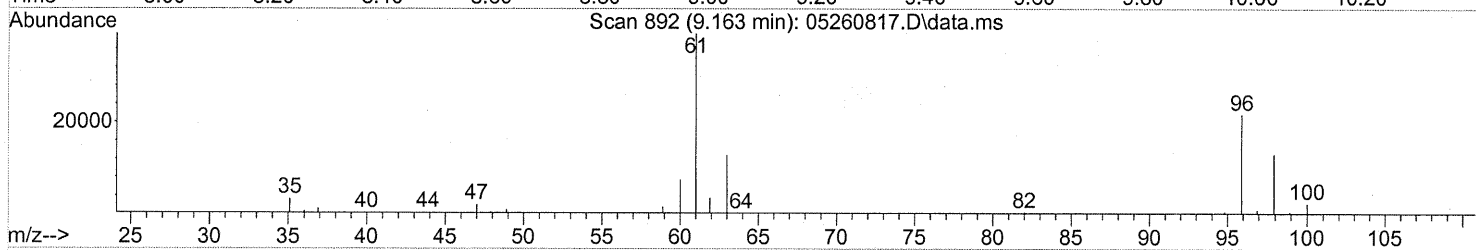
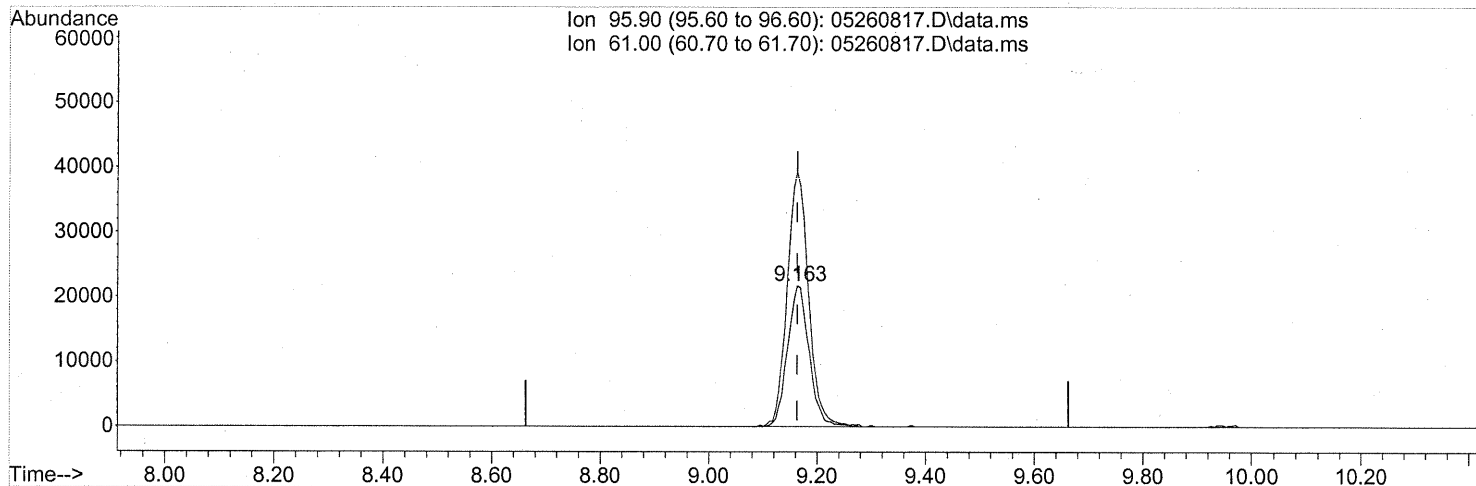
response 6111

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	63.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260817.D\data.ms

(17) 1,1-Dichloroethene (T)

9.163min (-0.000) 2.49ng

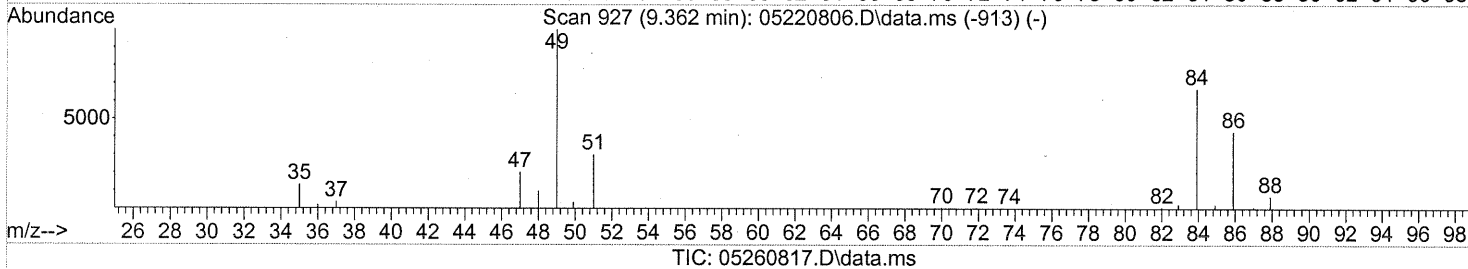
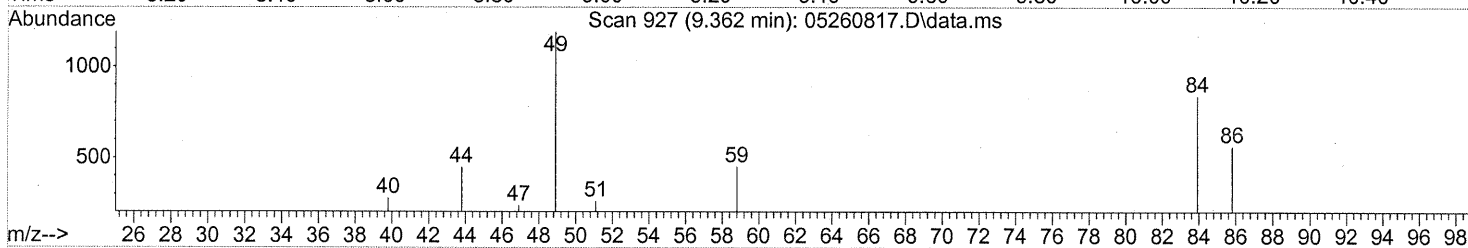
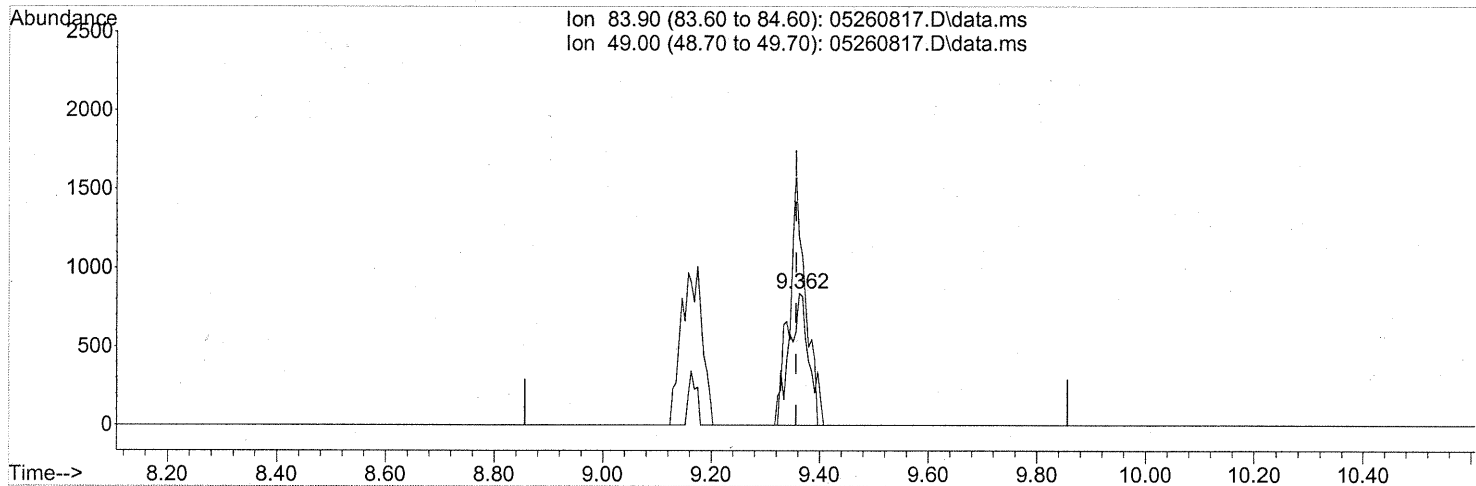
response 59524

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	179.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.08ng

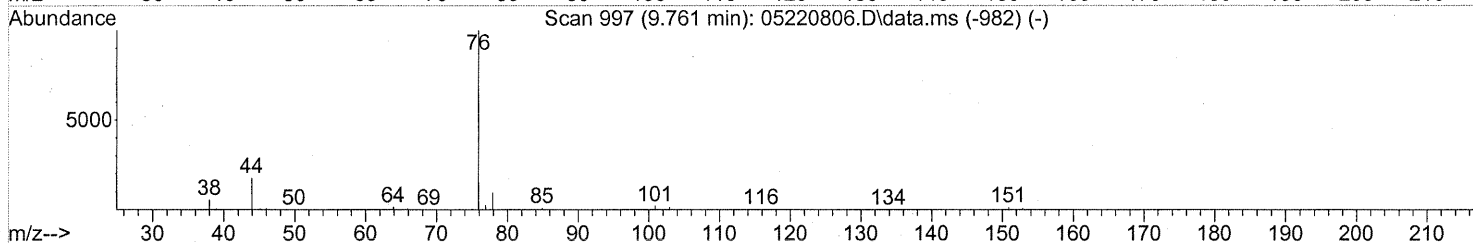
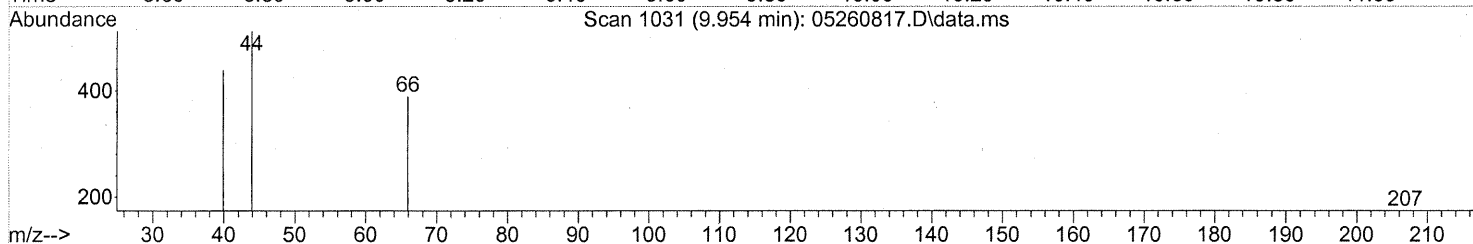
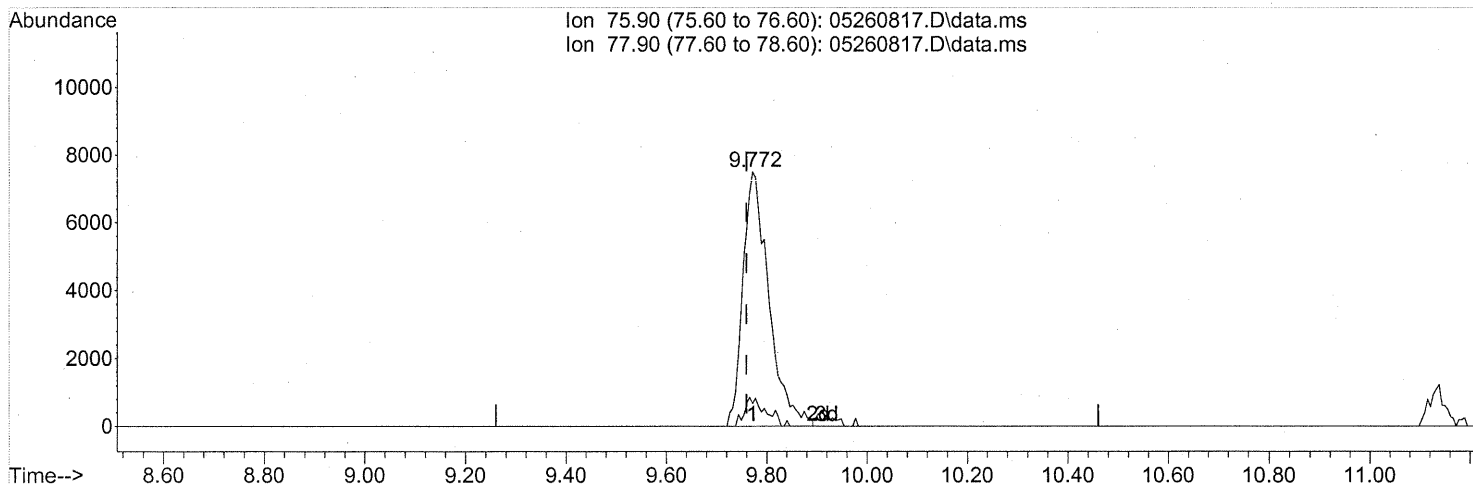
response 2140

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	152.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260817.D\data.ms

(22) Carbon Disulfide (T)

9.772min (+0.011) 0.27ng

response 26843

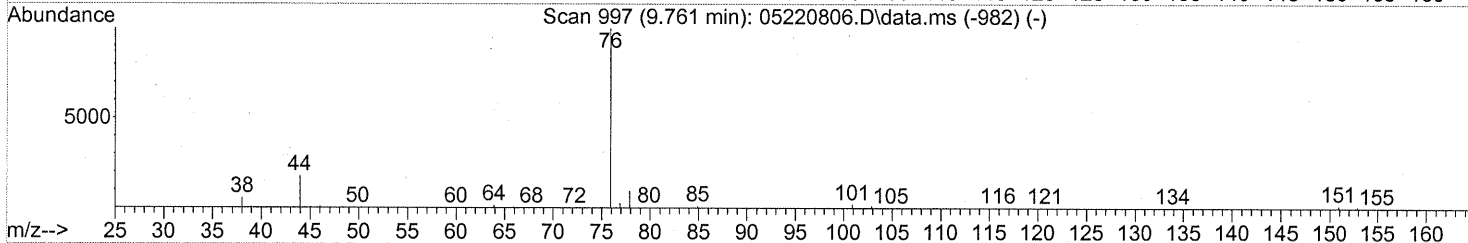
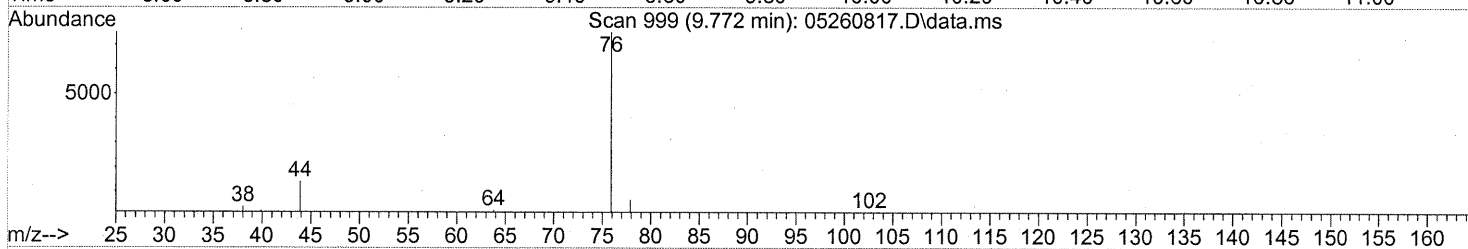
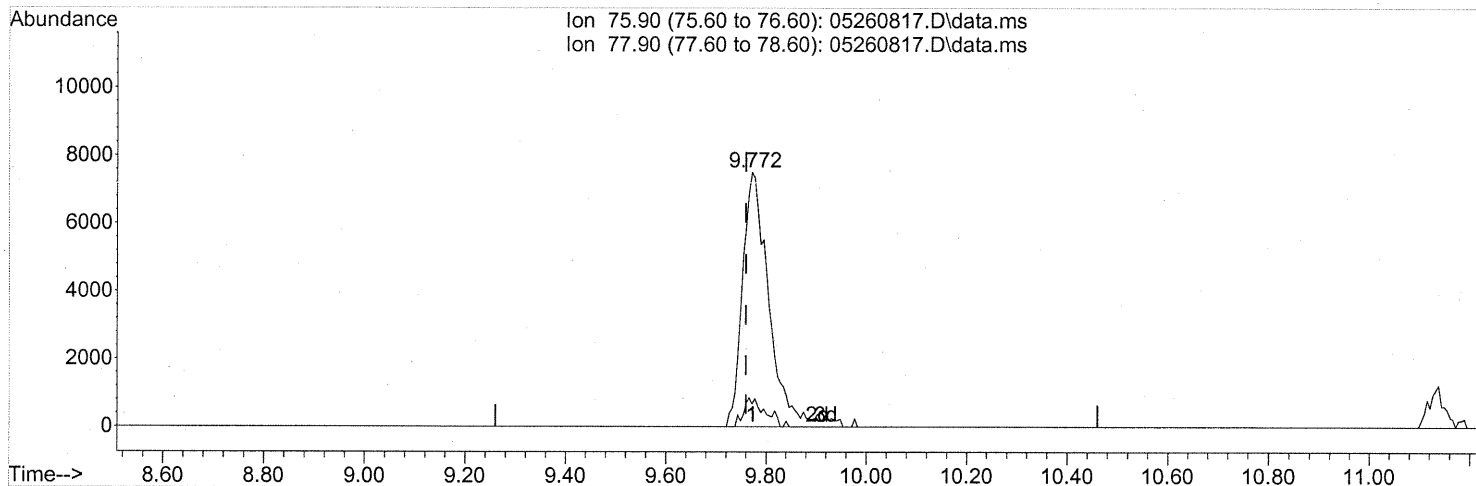
mis-identify

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260817.D\data.ms

(22) Carbon Disulfide (T)
 9.772min (+0.011) 0.28ng m

response 27616

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.76
0.00	0.00	0.00
0.00	0.00	0.00

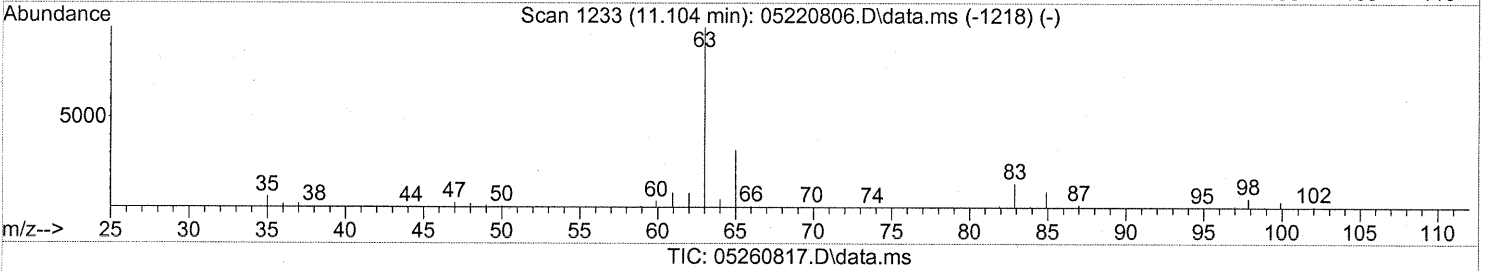
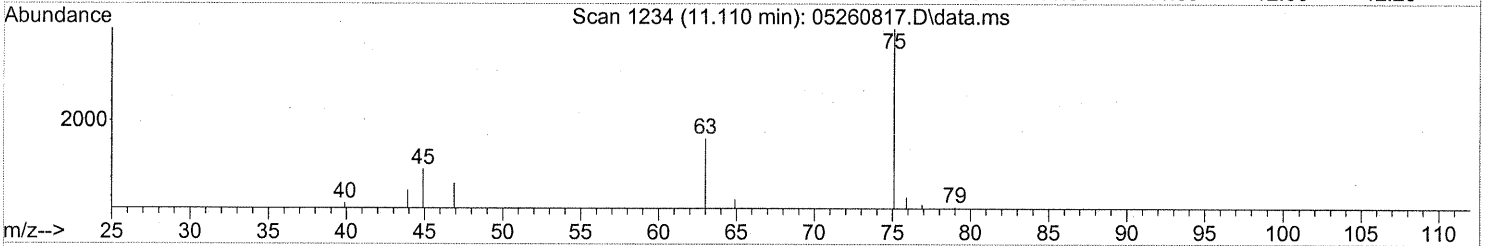
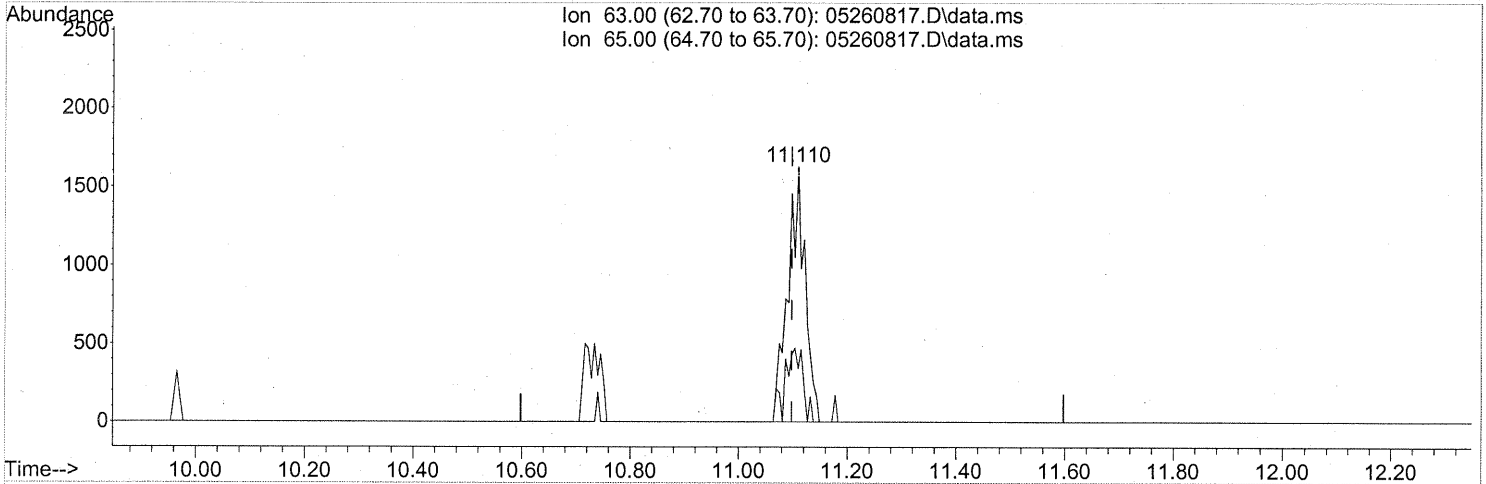
*int. cov. peak
 for 5/31/08*

Ford, J

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.110min (+0.011) 0.08ng

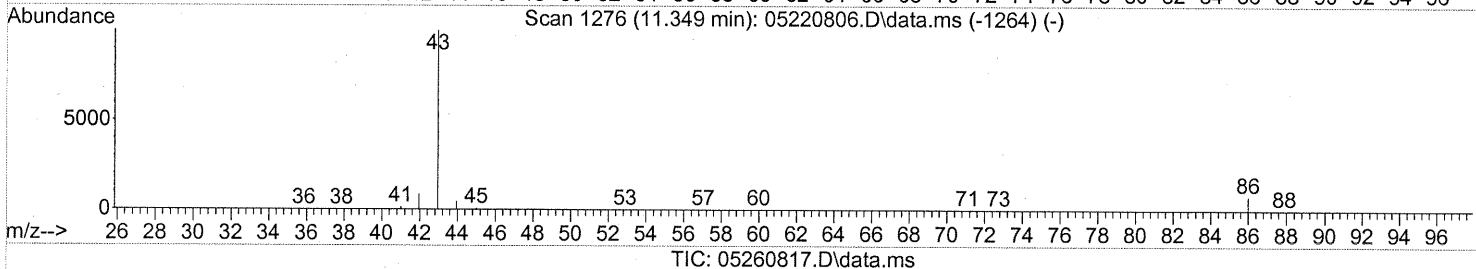
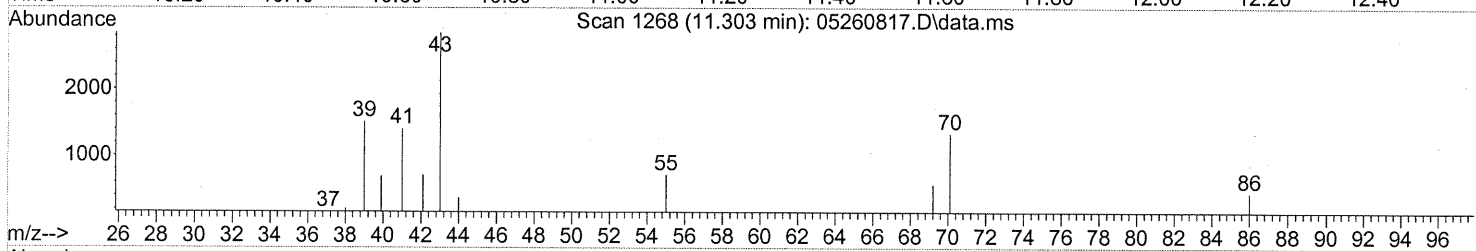
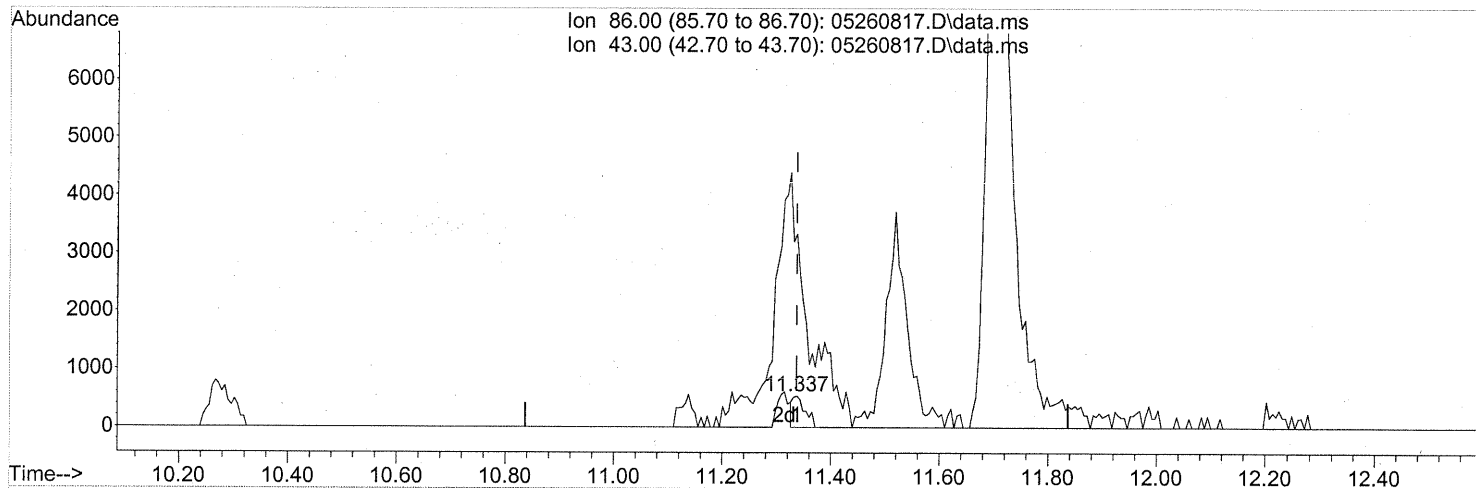
response 3565

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	30.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.337min (+0.000) 0.20ng

response 849

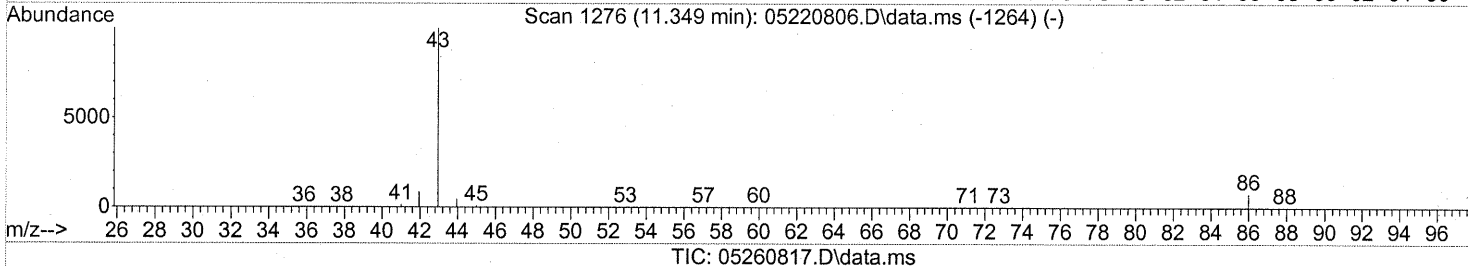
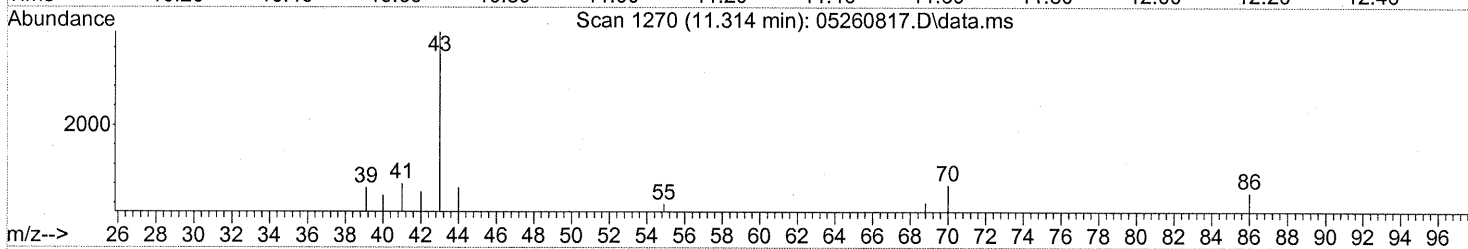
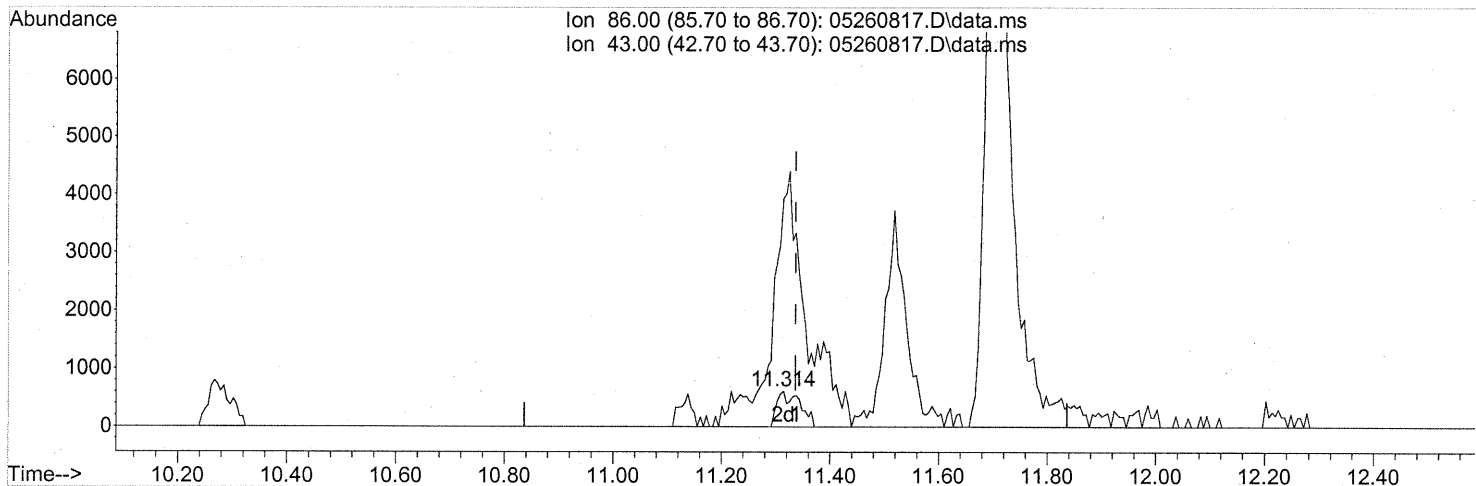
split peaks

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	2089.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.314min (-0.023) 0.41ng m
 response 1769

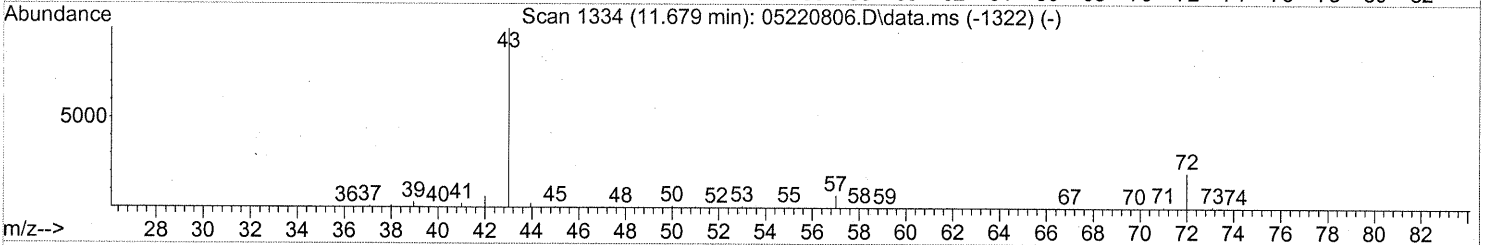
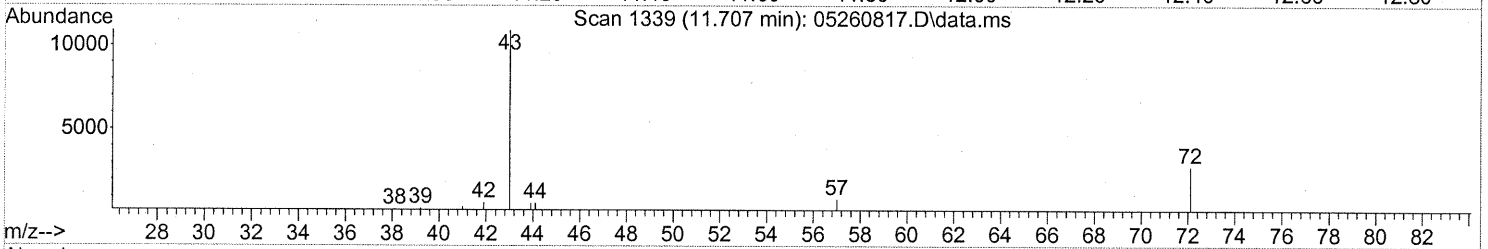
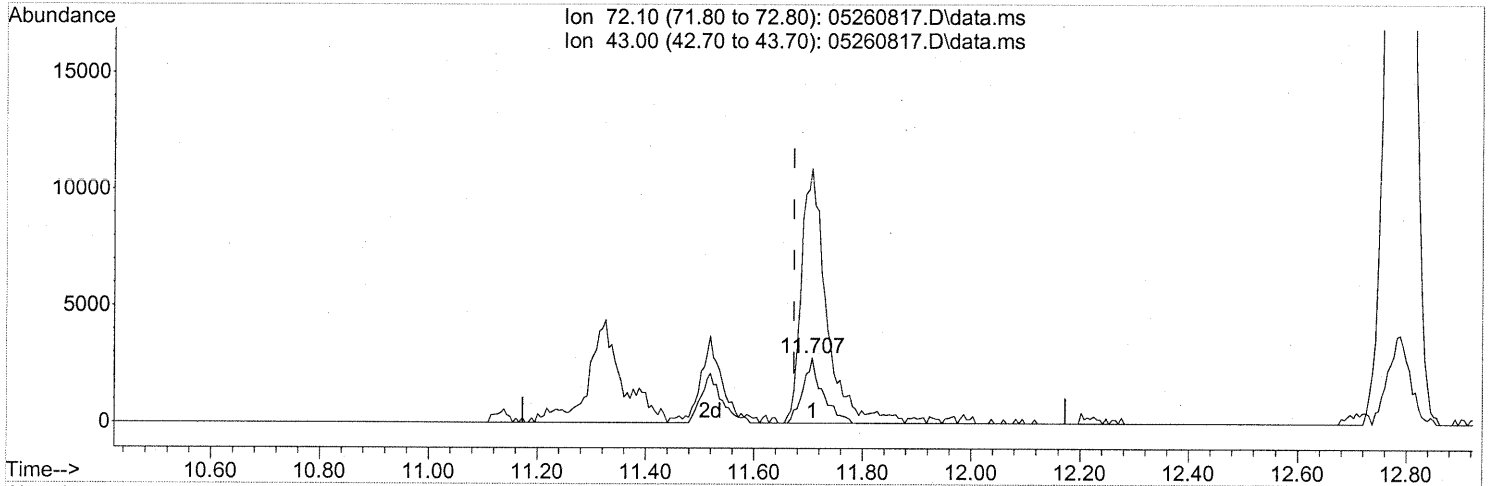
Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	1002.71#
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
5/31/08
P 66/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260817.D\data.ms

(27) 2-Butanone (T)

11.707min (+0.034) 0.41ng

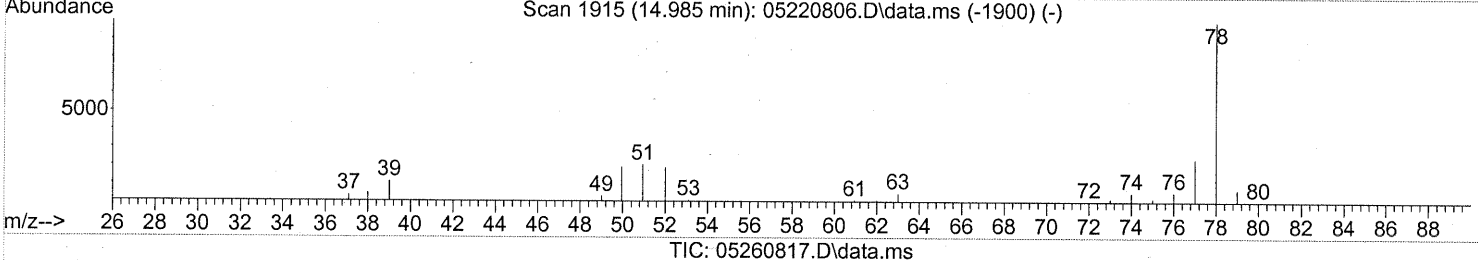
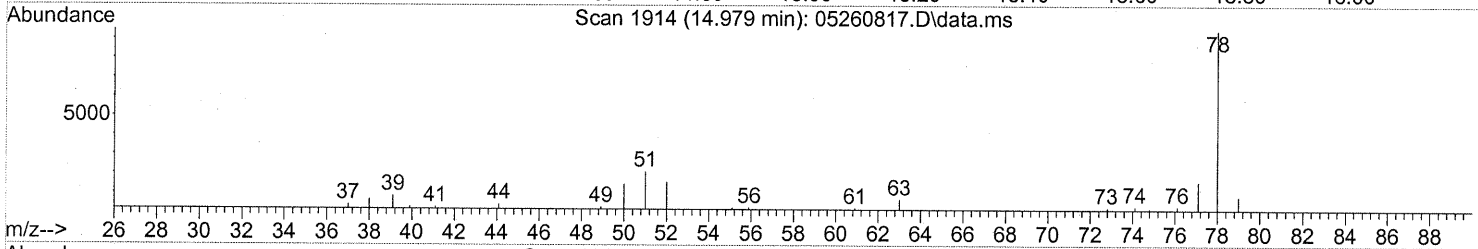
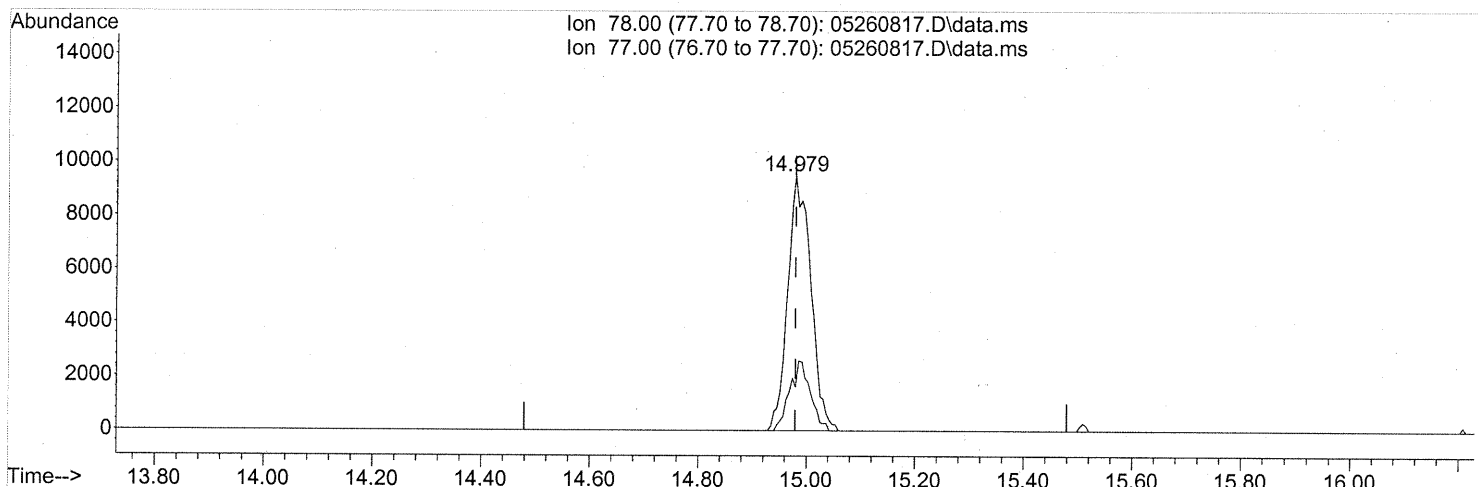
response 6983

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	505.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(41) Benzene (T)

14.979min (-0.000) 0.29ng

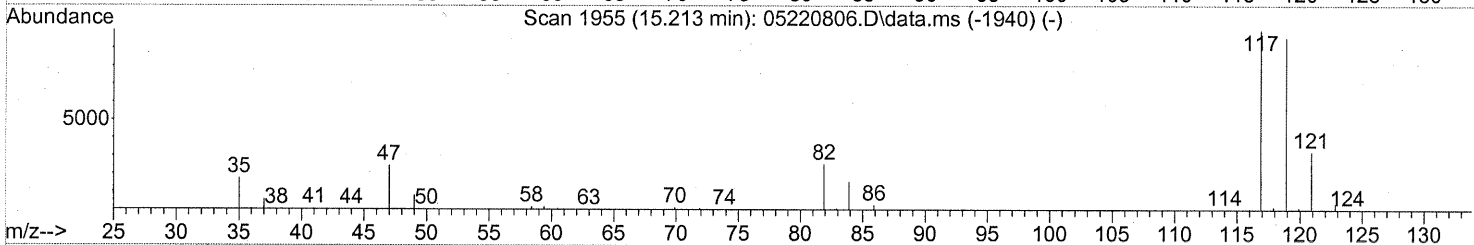
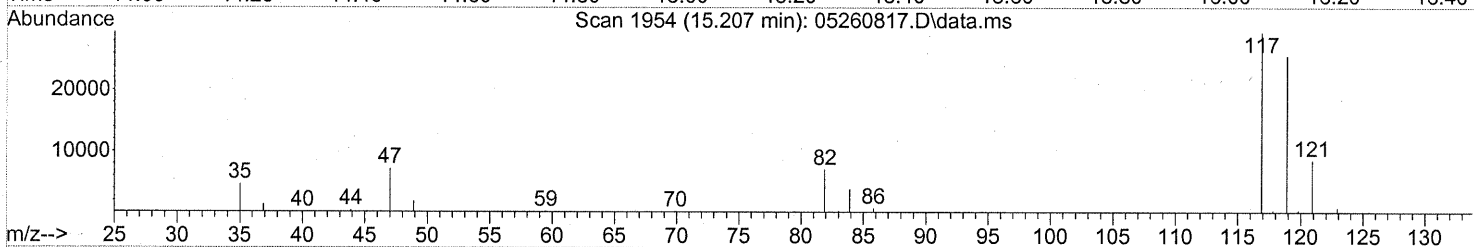
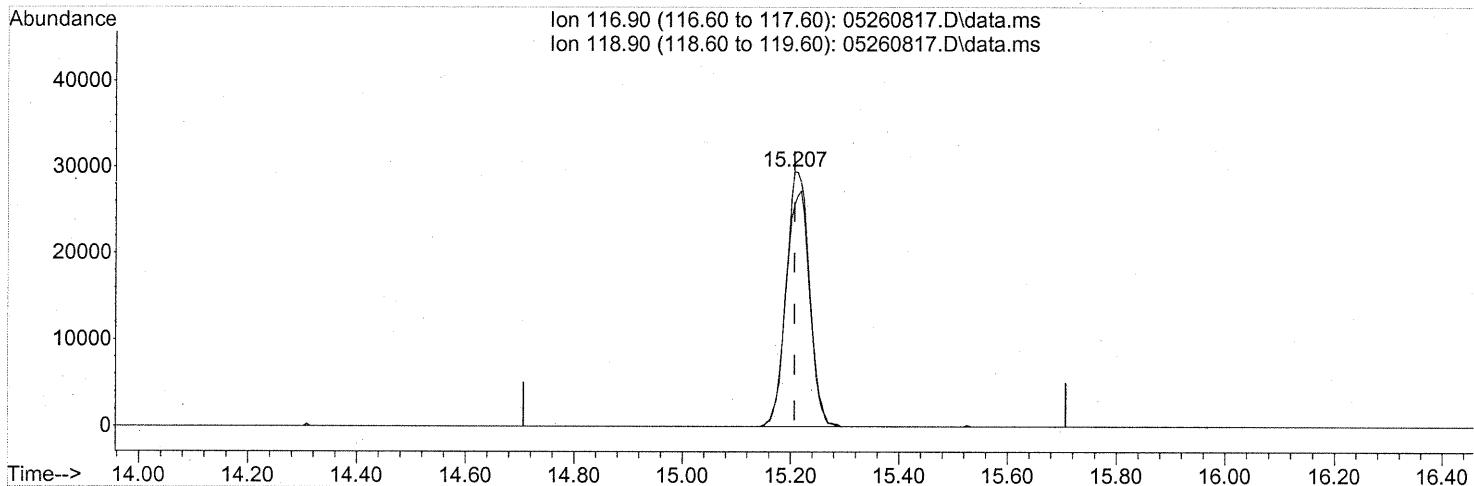
response 27900

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260817.D\data.ms

(42) Carbon Tetrachloride (T)

15.207min (-0.000) 2.37ng

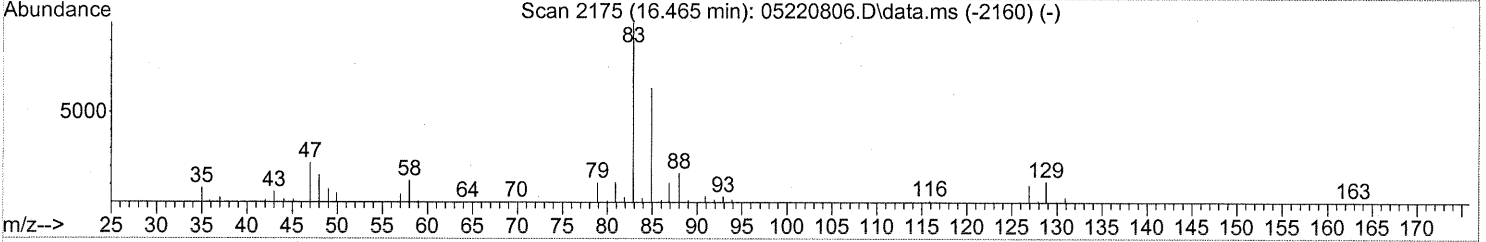
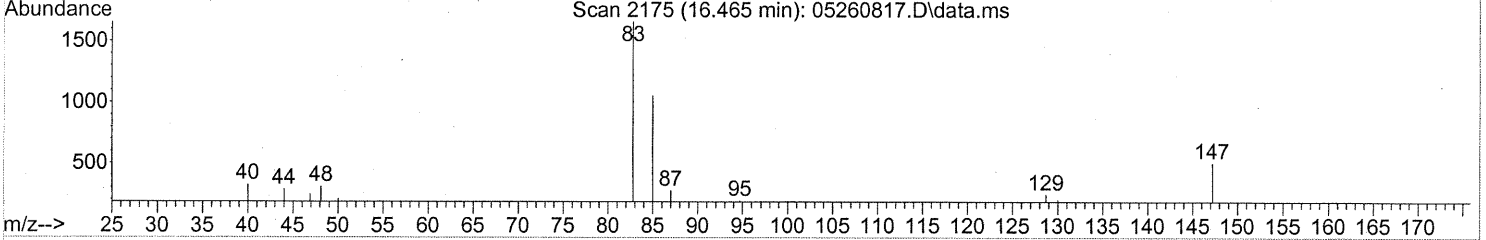
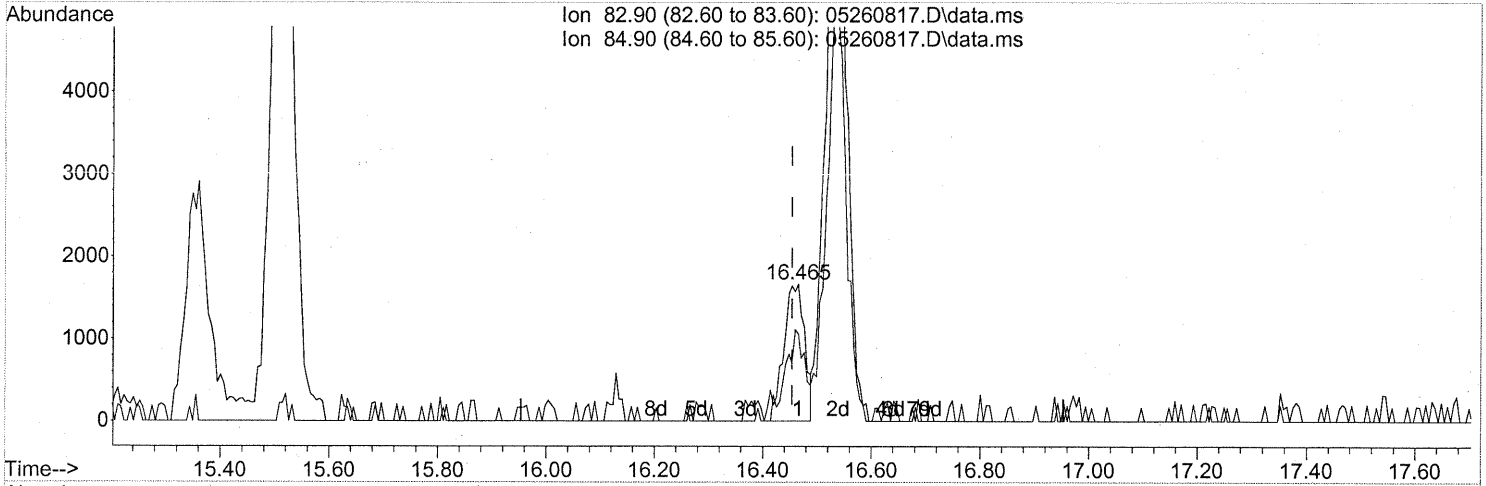
response 88126

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	92.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.14ng

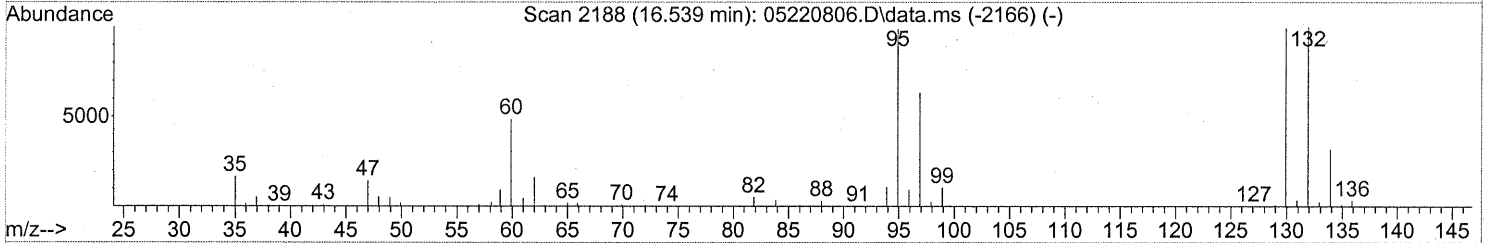
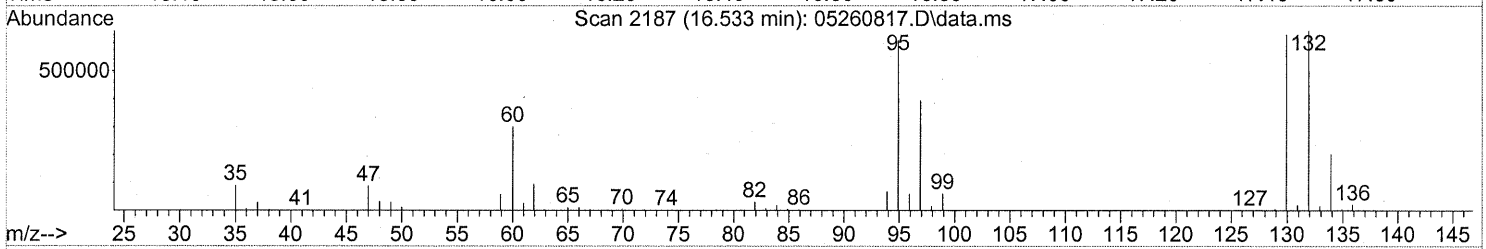
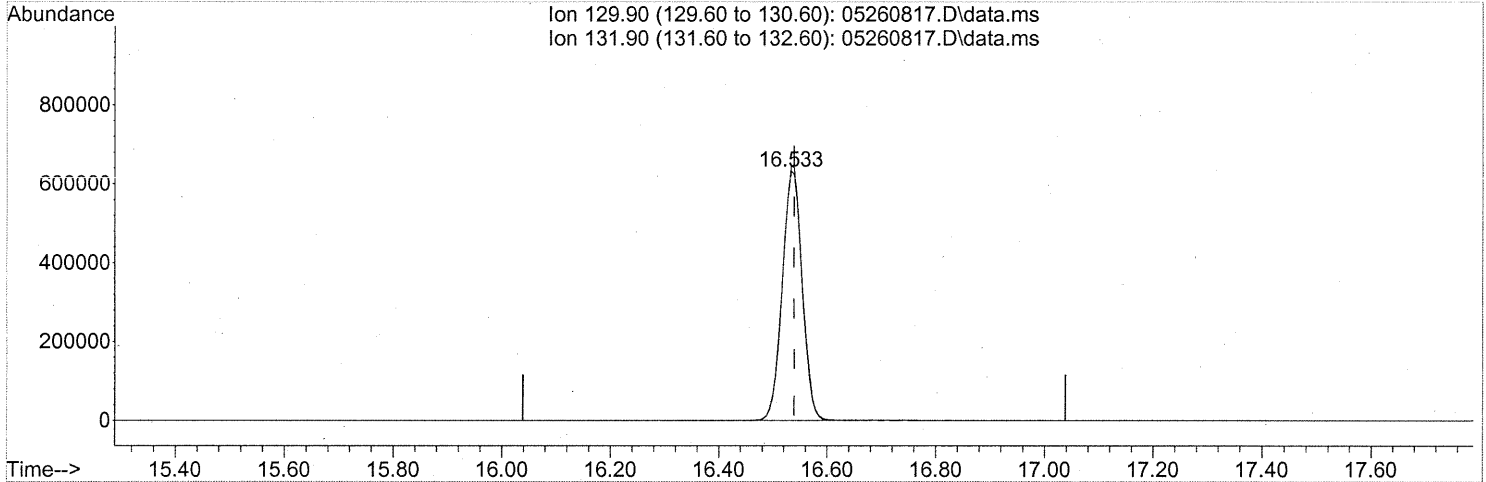
response 4584

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	59.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.533min (-0.006) 54.32ng

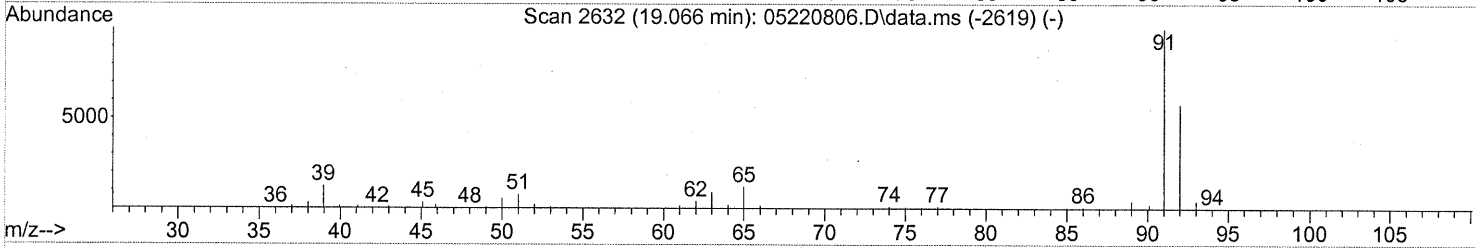
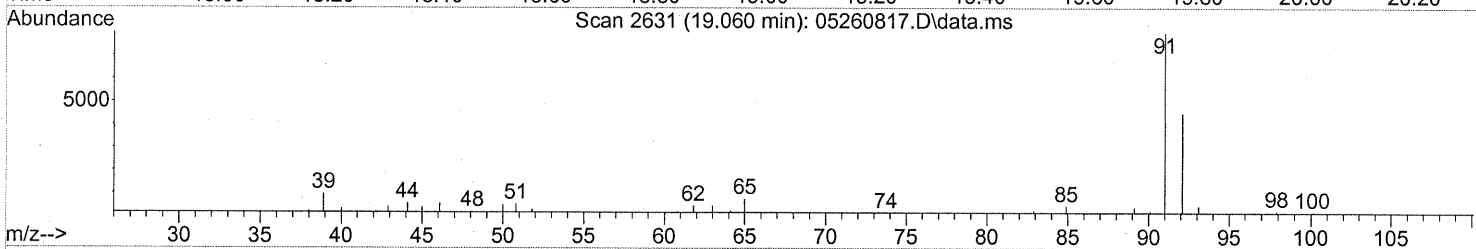
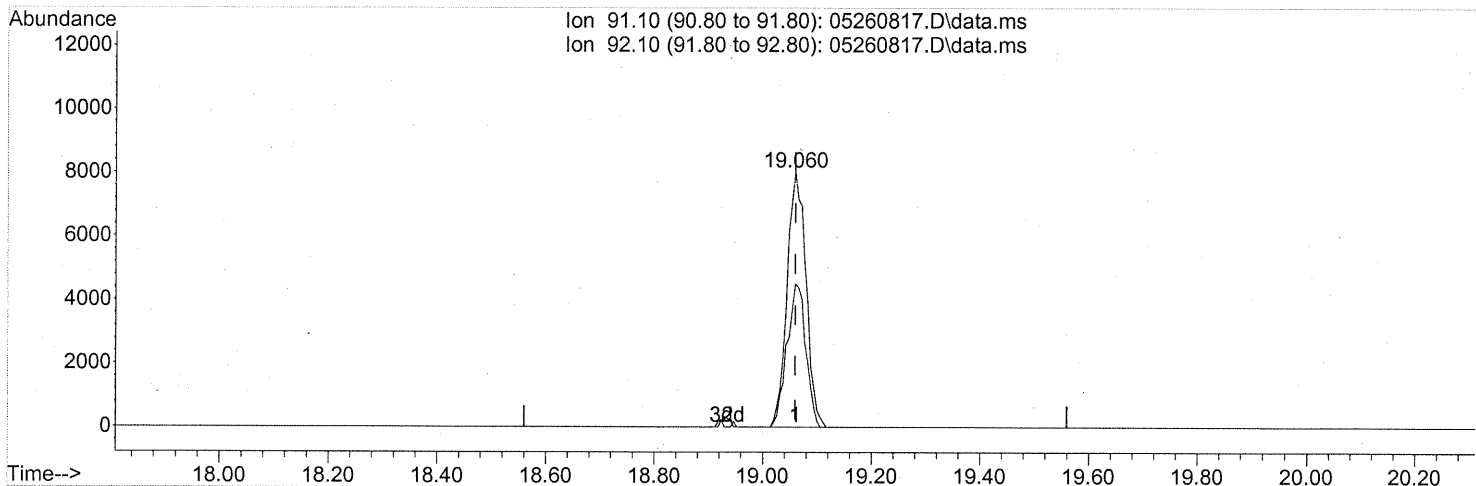
response 1605679

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260817.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.18ng

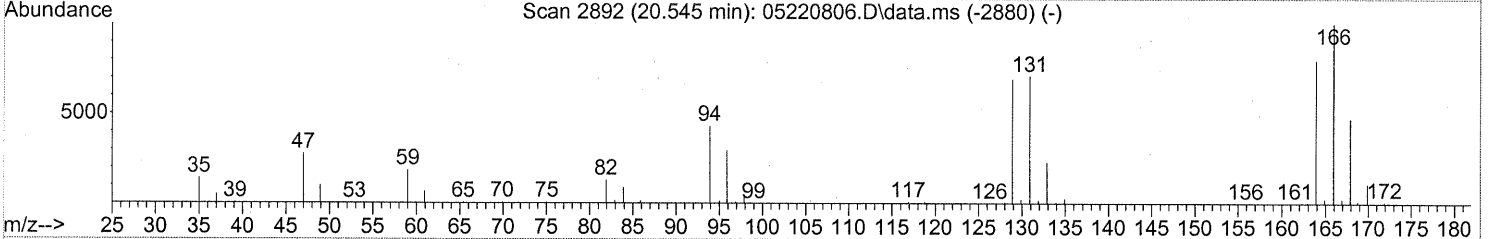
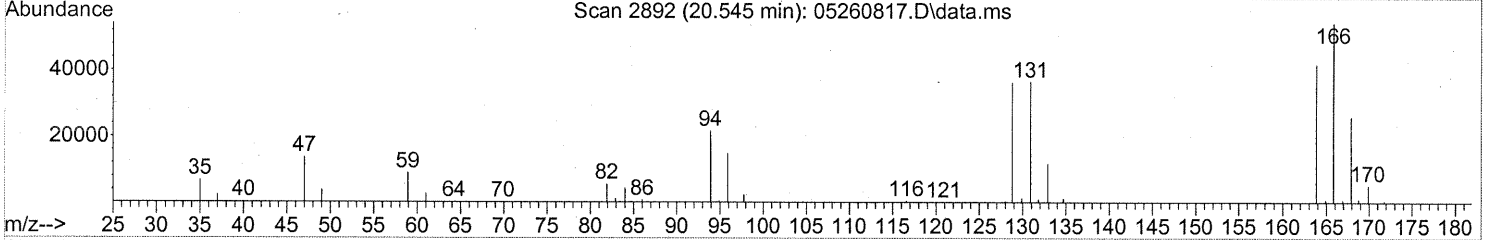
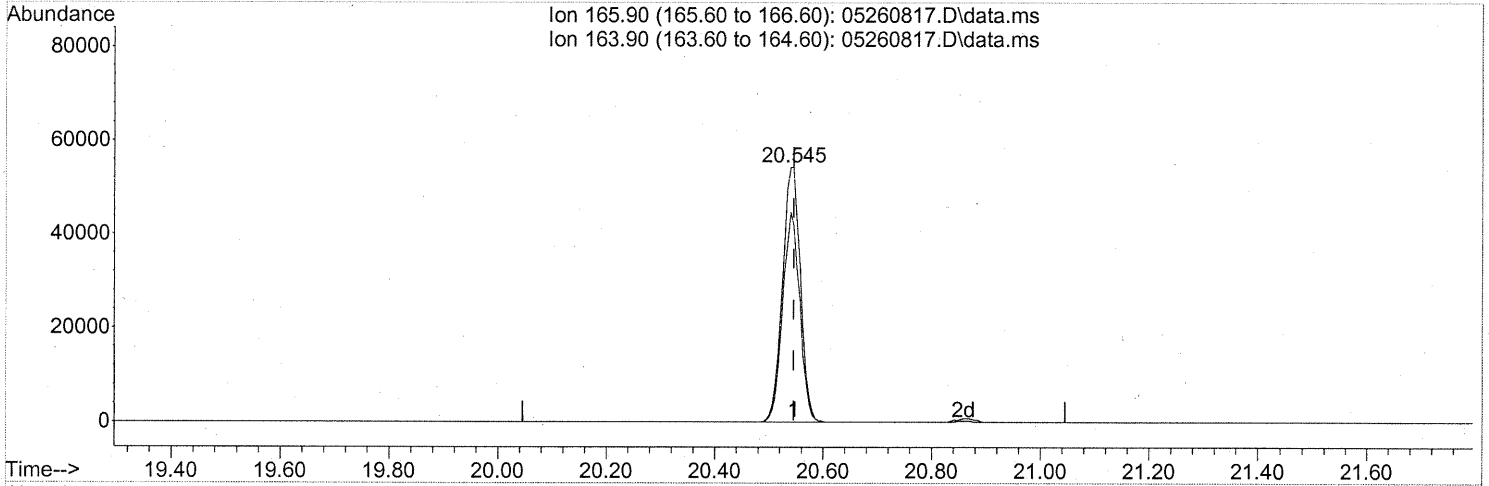
response 19267

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	56.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260817.D\data.ms

(64) Tetrachloroethene (T)

20.545min (-0.000) 3.89ng

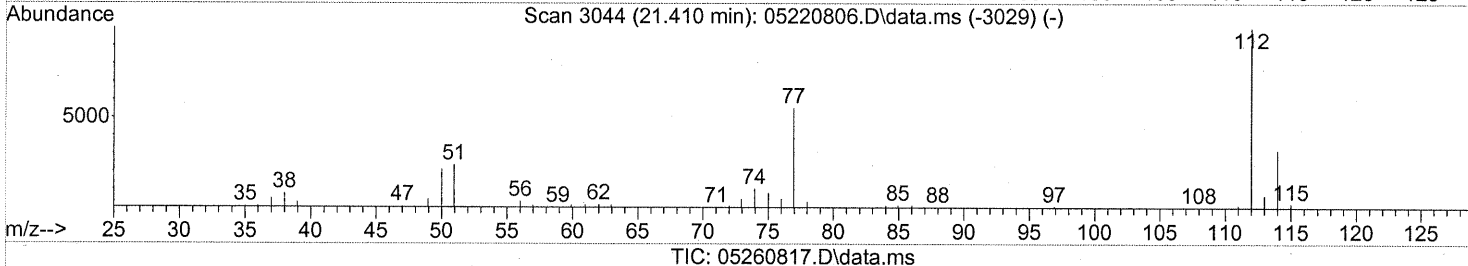
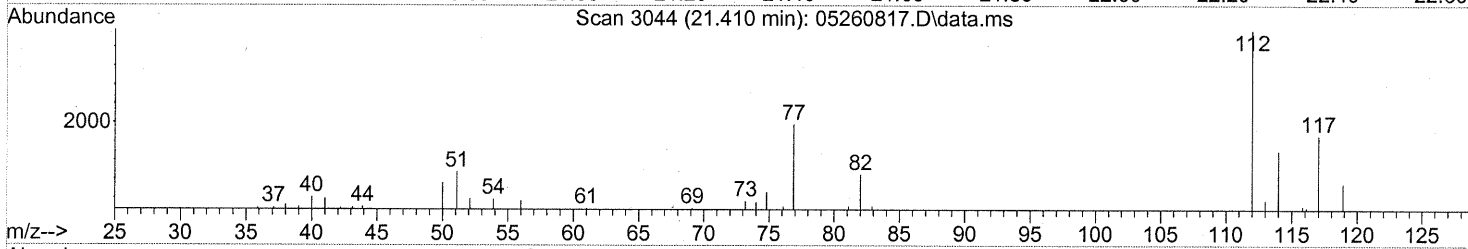
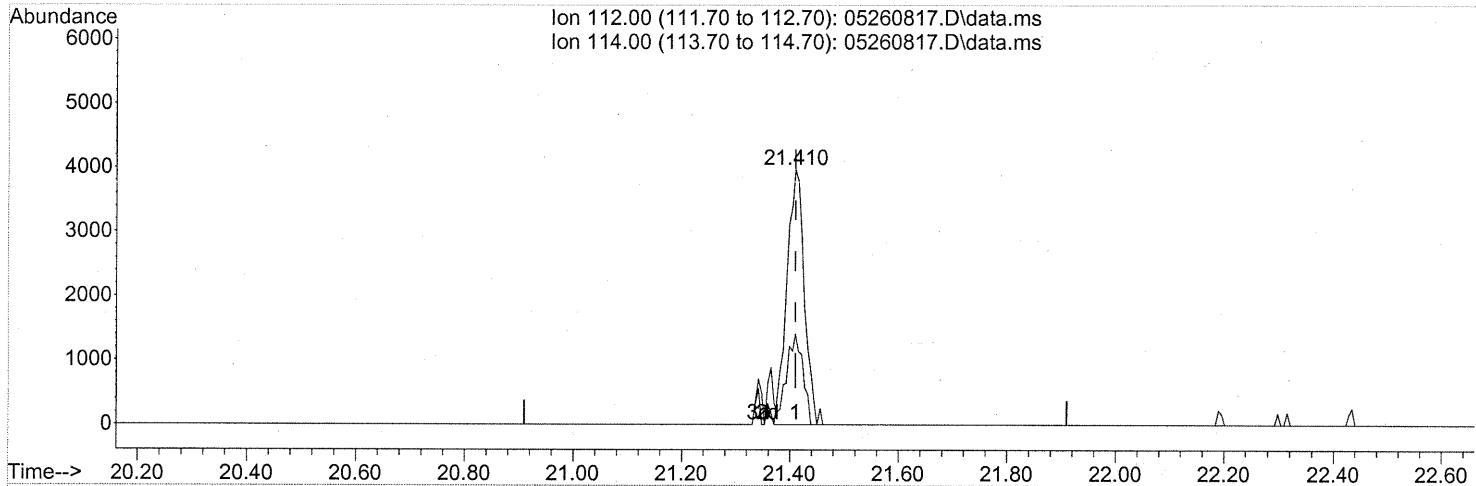
response 123460

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	78.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



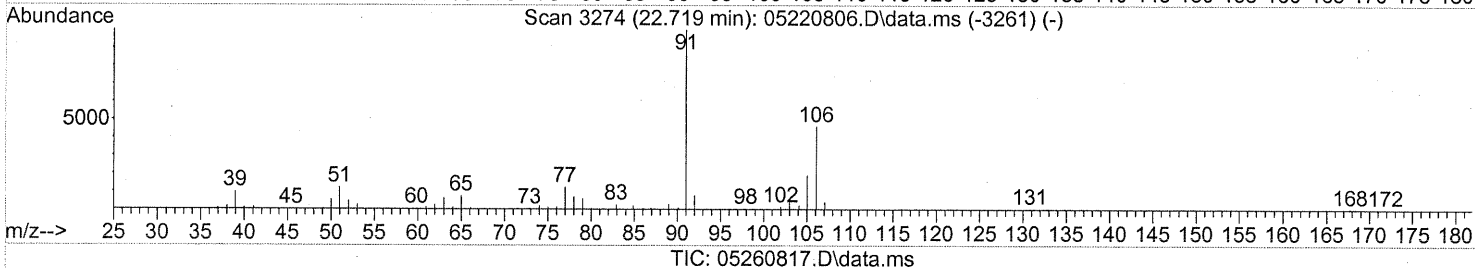
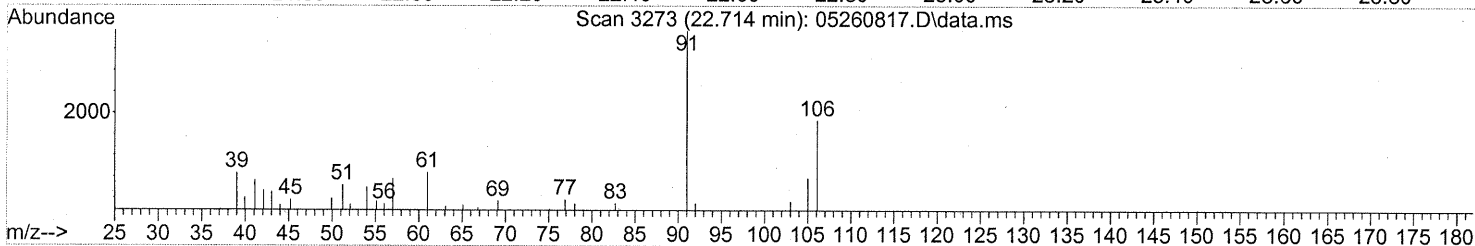
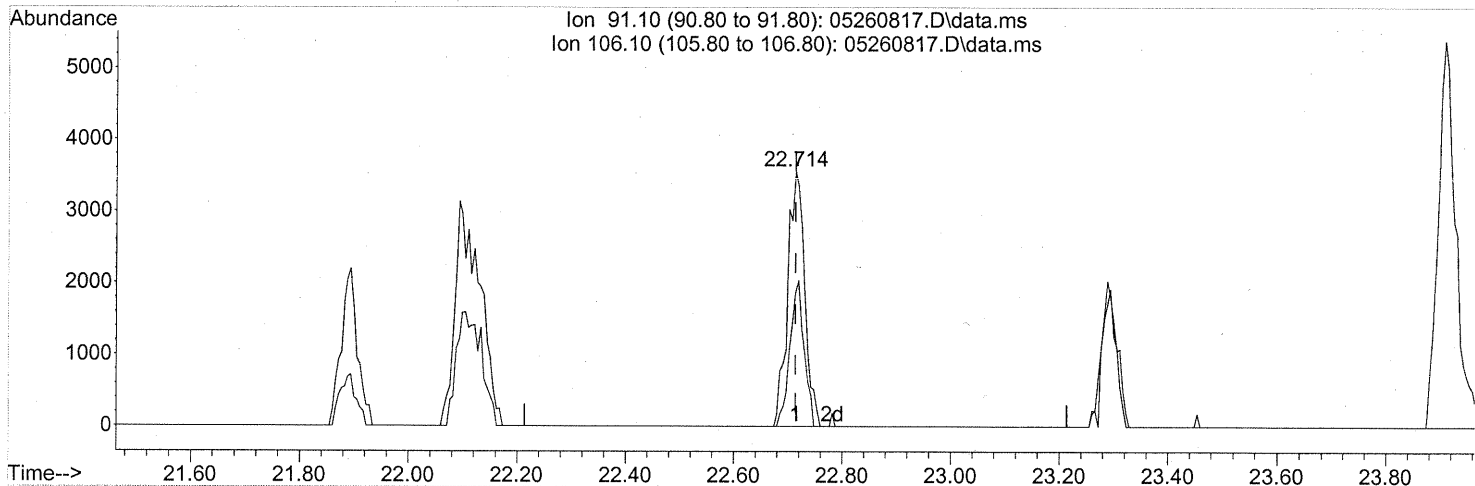
(65) Chlorobenzene (T)
 21.410min (-0.000) 0.12ng
 response 8891

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	32.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



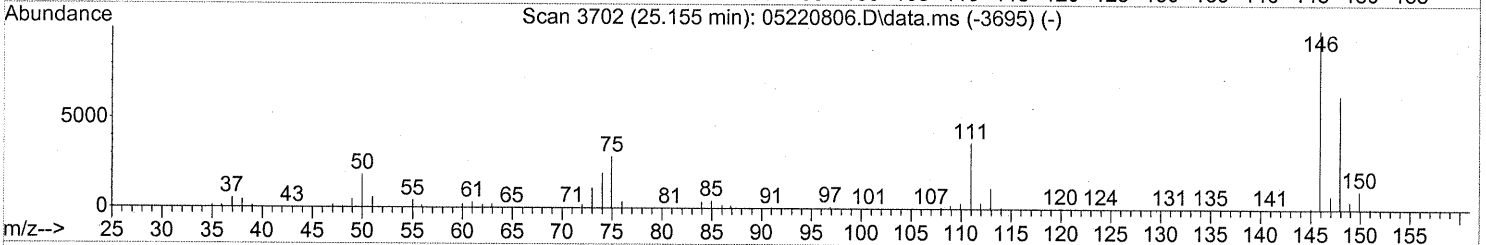
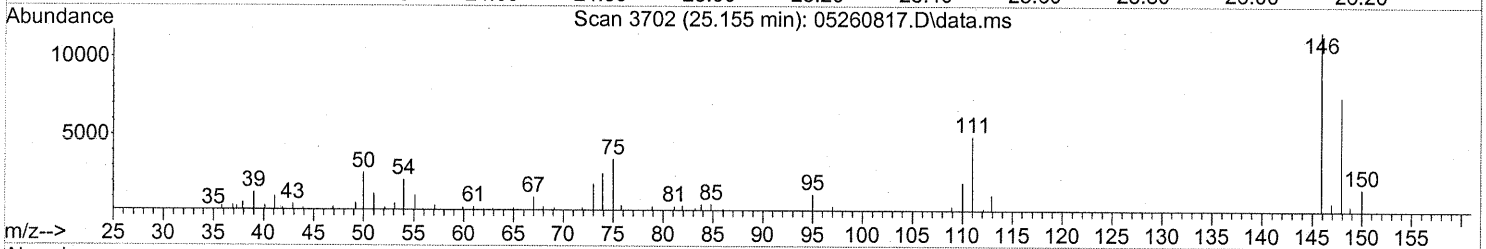
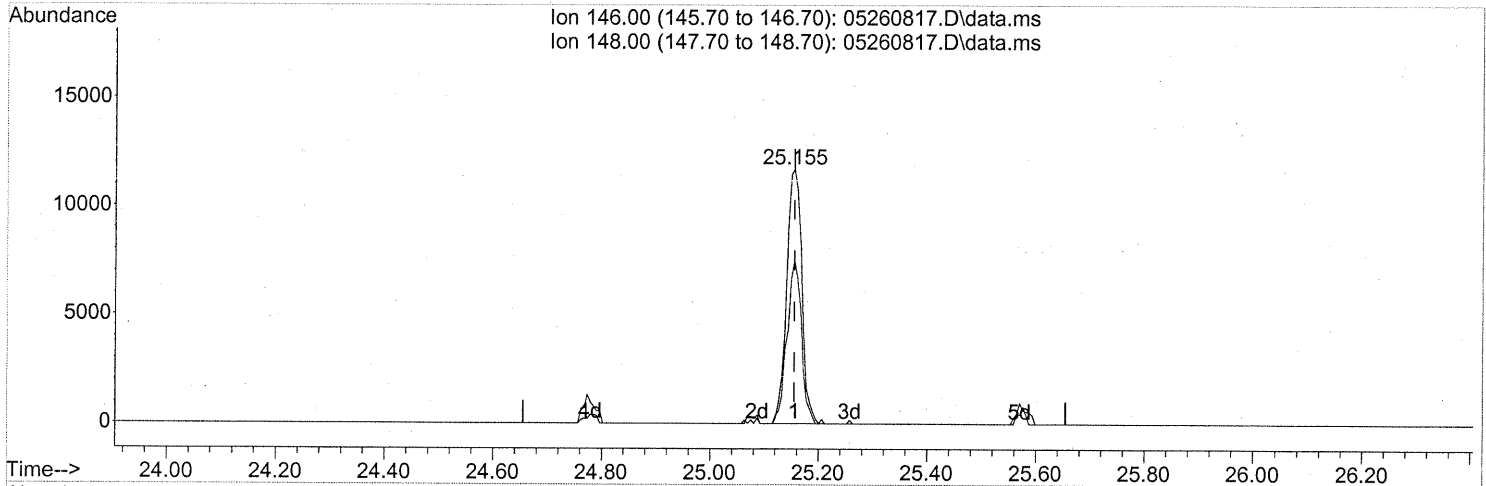
(70) o-Xylene (T)
 22.714min (-0.000) 0.09ng
 response 7737

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	47.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260817.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 0.35ng

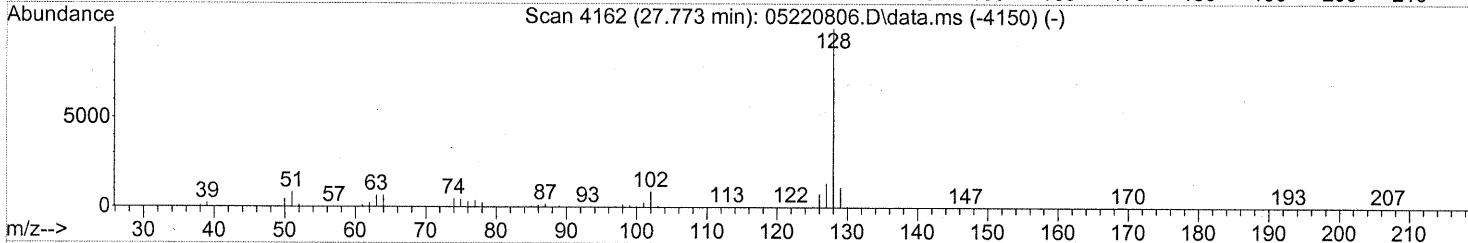
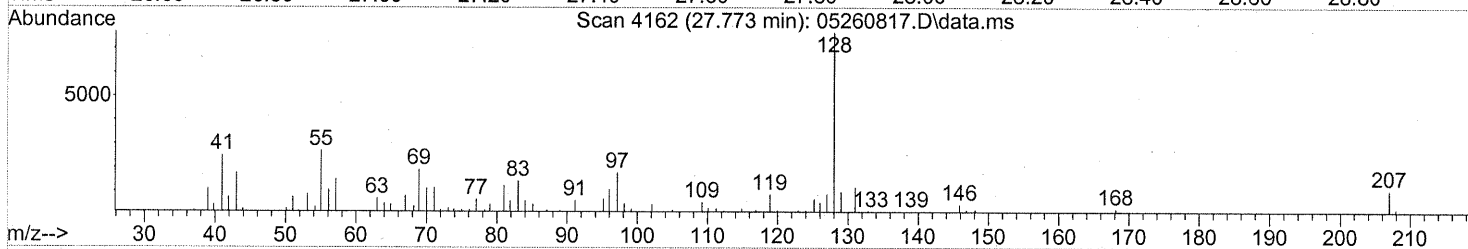
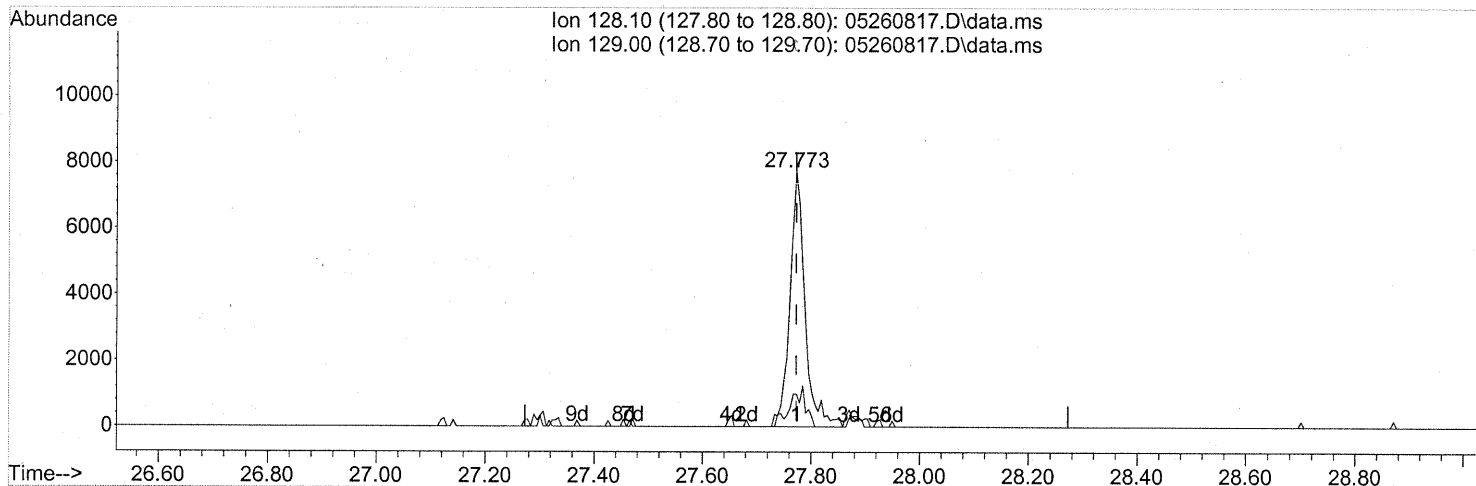
response 22627

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	61.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 22:41
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260817.D\data.ms

(95) Naphthalene (T)

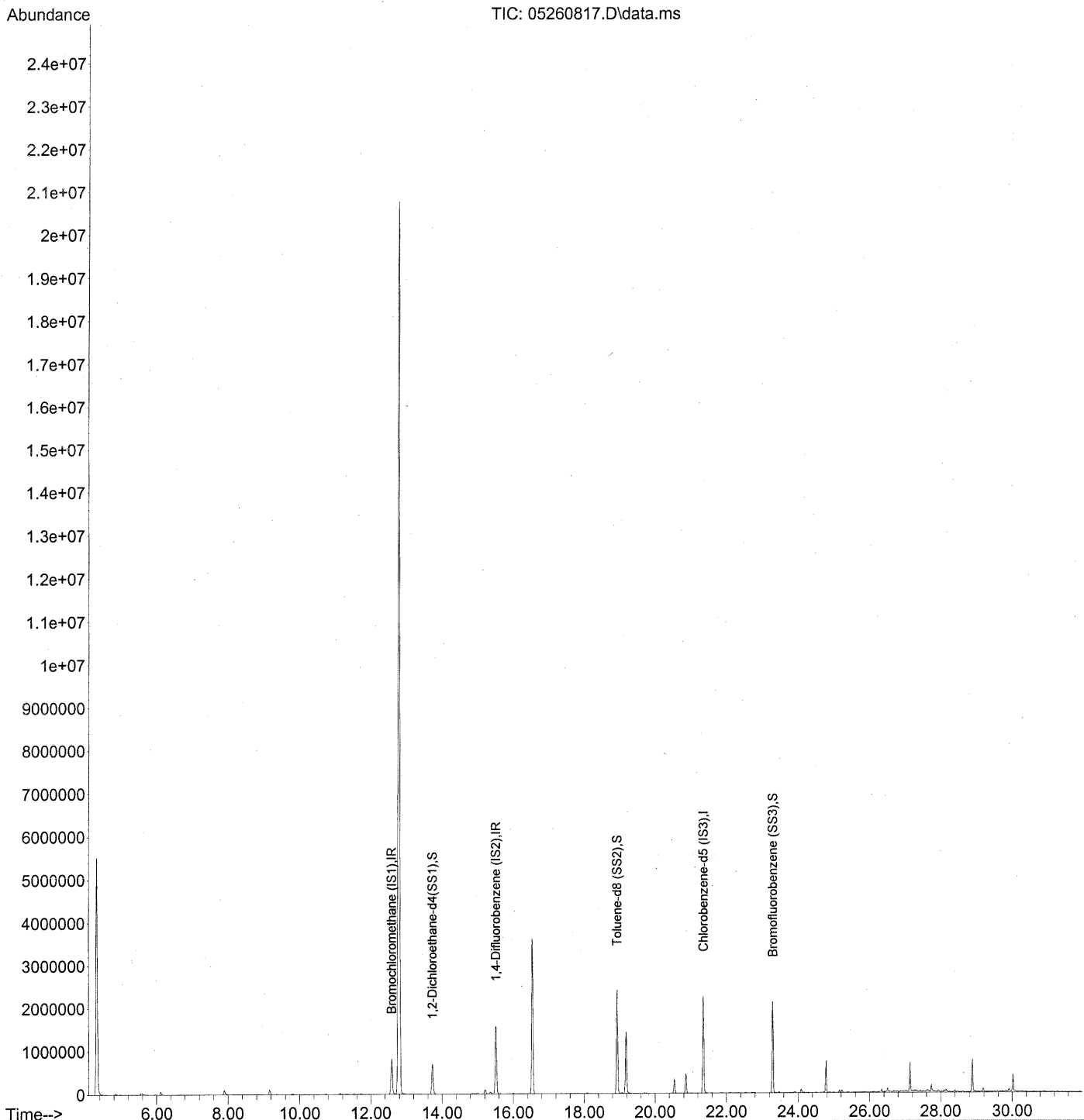
27.773min (-0.000) 0.10ng

response 14819

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.85
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260817.D
Acq On : 26 May 2008 10:41 pm
Operator : WA
Sample : P0801483-08 (150ml)
Misc : ENSR SG28B-05D (-3.2, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 13:02:29 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260817.D
 Acq On : 26 May 2008 10:41 pm
 Operator : WA
 Sample : P0801483-08 (150ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 13:02:29 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

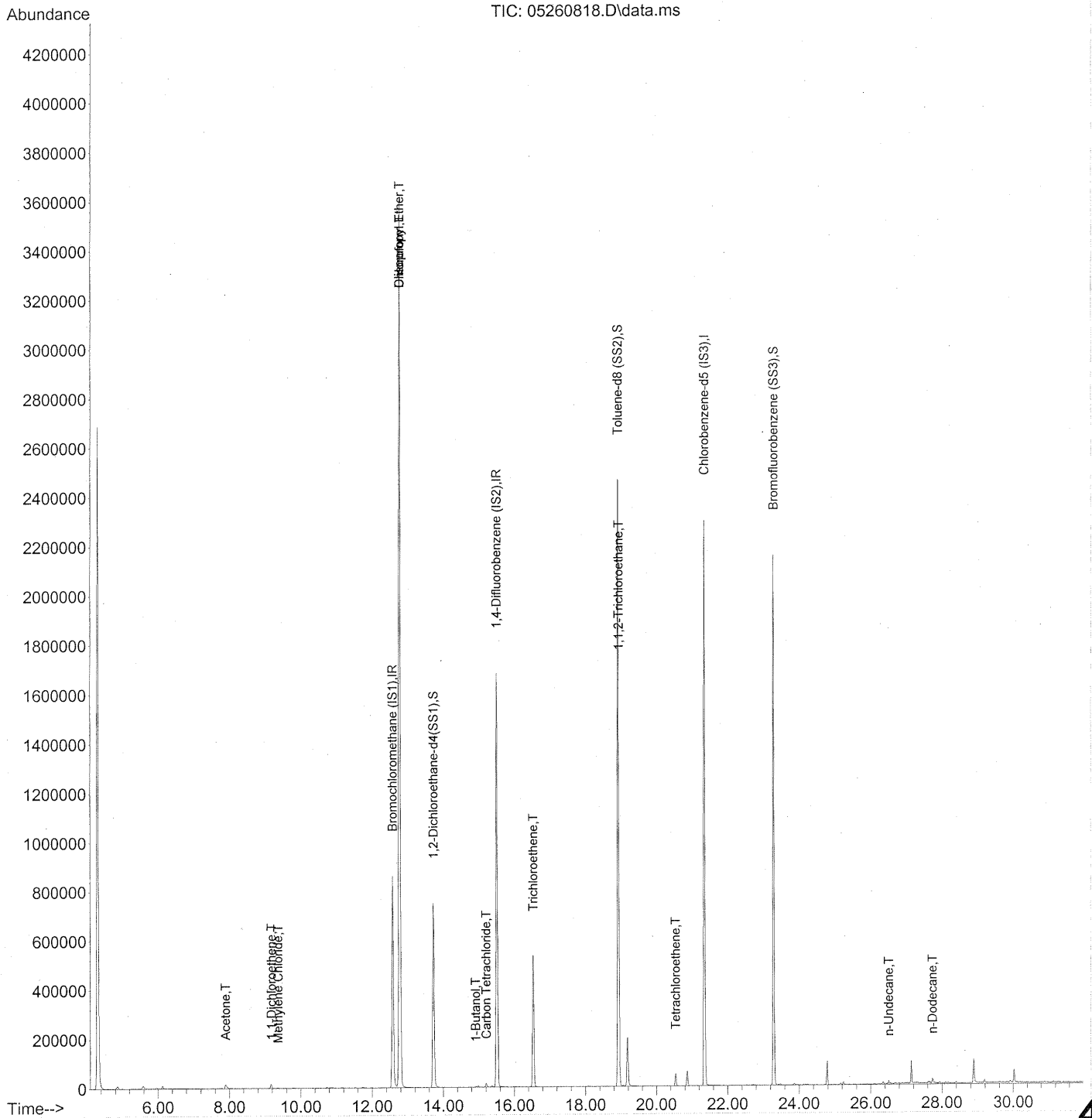
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) Bromochloromethane (IS1)	12.58	130	434582	25.000	ng	-0.02	
3) 1,4-Difluorobenzene (IS2)	15.51	114	1840194	25.000	ng	-0.02	
4) Chlorobenzene-d5 (IS3)	21.35	82	878797	25.000	ng	0.00	
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...)	13.73	65	707557	23.497	ng	-0.02	
Spiked Amount	25.000						Recovery = 94.00%
5) Toluene-d8 (SS2)	18.93	98	1957129	24.797	ng	-0.01	
Spiked Amount	25.000						Recovery = 99.20%
6) Bromofluorobenzene (SS3)	23.29	174	793099	24.711	ng	0.00	
Spiked Amount	25.000						Recovery = 98.84%
Target Compounds							
7) tert-Butylbenzene	24.89	119	830		N.D.		Qvalue
8) n-Butylbenzene	25.91	91	2847		N.D.		

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

DA 5/31/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260818.D
 Acq On : 26 May 2008 23:22
 Operator : WA
 Sample : P0801483-008 Dil (25ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260818.D
 Acq On : 26 May 2008 23:22
 Operator : WA
 Sample : P0801483-008 Dil (25ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	446839	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1934163	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	896144	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	766551	24.758	ng	0.00
Spiked Amount	25.000		Recovery	=	99.04%	
57) Toluene-d8 (SS2)	18.92	98	2058041	25.571	ng	0.00
Spiked Amount	25.000		Recovery	=	102.28%	
73) Bromofluorobenzene (SS3)	23.29	174	816385	24.944	ng	0.00
Spiked Amount	25.000		Recovery	=	99.76%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	1015	N.D.		
3) Dichlorodifluoromethane	4.99	85	2244	N.D.		
4) Chloromethane	5.34	50	53	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.12	45	793	N.D.		
11) Acetonitrile	7.44	41	248	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	7.89	58	10067	0.419	ng	# 69
14) Trichlorofluoromethane	8.17	101	895	N.D.		
15) Isopropanol	8.34	45	185	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.17	96	9446	0.385	ng	# 75
18) tert-Butanol	9.18	59	150	N.D.		
19) Methylene Chloride	9.36	84	1348	0.050	ng	# 70
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	9.81	151	120	N.D.		
22) Carbon Disulfide	9.77	76	4710	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	229	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.71	72	403	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.77	87	388864	18.076	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260818.D
 Acq On : 26 May 2008 23:22
 Operator : WA
 Sample : P0801483-008 Dil (25ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	3799168	93.240	ng	99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.77	62	64	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.91	56	3386	0.127	ng	# 59
41) Benzene	14.99	78	4864	N.D.		
42) Carbon Tetrachloride	15.21	117	12520	0.321	ng	99
43) Cyclohexane	15.41	84	115	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.47	83	641	N.D.		
47) Trichloroethene	16.53	130	243503	7.838	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	0.00	57	0	N.D.		
50) Methyl Methacrylate	16.53	100	430	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	179487	7.172	ng	# 8
58) Toluene	19.06	91	3602	N.D.		
59) 2-Hexanone	19.41	43	115	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.54	166	19368	0.598	ng	99
65) Chlorobenzene	21.40	112	1314	N.D.		
66) Ethylbenzene	21.89	91	777	N.D.		
67) m- & p-Xylene	22.13	91	1760	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.72	91	1289	N.D.		
71) n-Nonane	22.73	43	63	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.49	83	111	N.D.		
74) Cumene	23.47	105	69	N.D.		
75) alpha-Pinene	24.11	93	176	N.D.		
76) n-Propylbenzene	24.10	91	217	N.D.		
77) 3-Ethyltoluene	24.23	105	202	N.D.		
78) 4-Ethyltoluene	24.28	105	81	N.D.		
79) 1,3,5-Trimethylbenzene	24.39	105	176	N.D.		

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260818.D
 Acq On : 26 May 2008 23:22
 Operator : WA
 Sample : P0801483-008 Dil (25ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

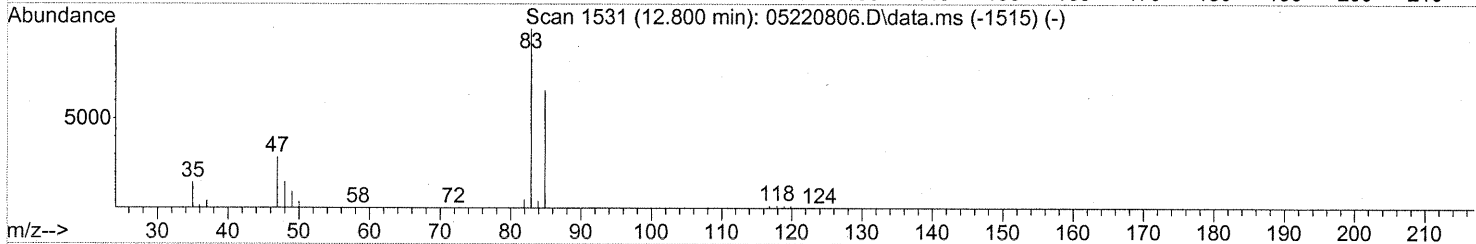
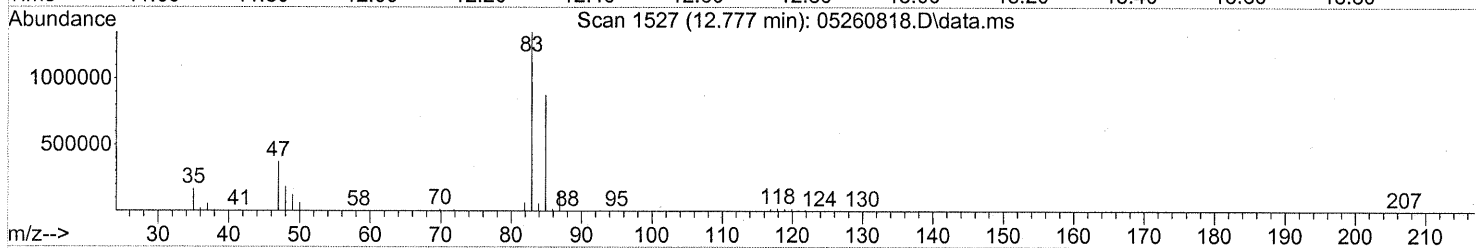
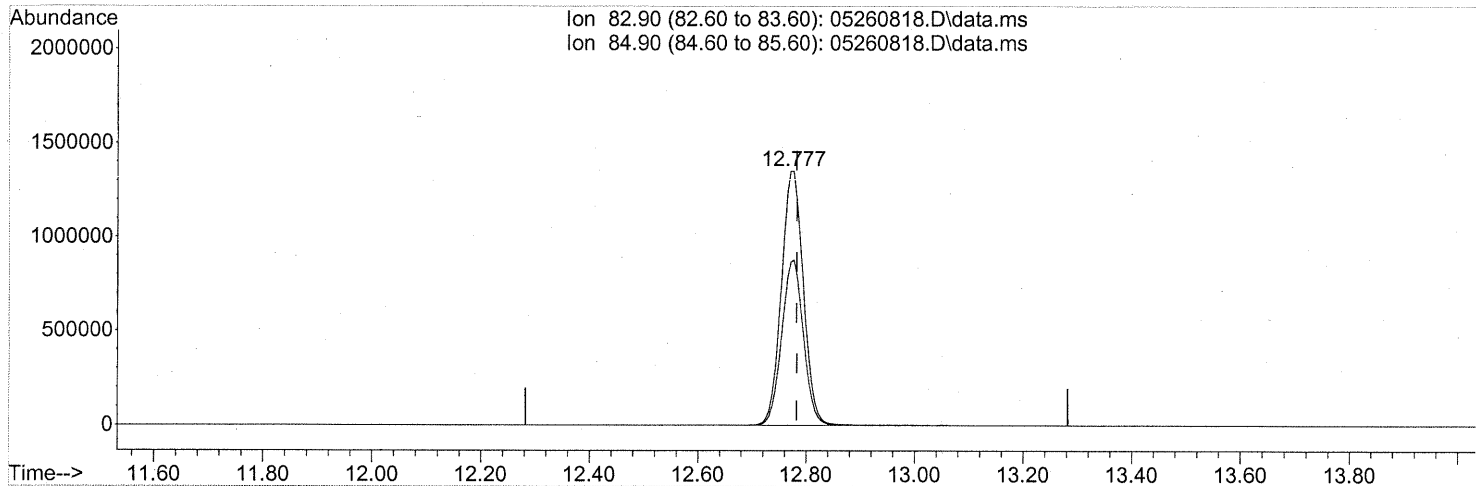
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.78	118	1482		N.D.	
81) 2-Ethyltoluene	24.61	105	68		N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	919		N.D.	
83) n-Decane	24.99	57	858		N.D.	
84) Benzyl Chloride	24.82	91	53		N.D.	
85) 1,3-Dichlorobenzene	25.16	146	3205		N.D.	
86) 1,4-Dichlorobenzene	25.16	146	3205		N.D.	
87) sec-Butylbenzene	25.41	105	275		N.D.	
88) p-Isopropyltoluene	25.39	119	137		N.D.	
89) 1,2,3-Trimethylbenzene	25.41	105	275		N.D.	
90) 1,2-Dichlorobenzene	25.58	146	116		N.D.	
91) d-Limonene	25.57	68	226		N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.50	57	6086	0.096	ng	94
94) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
95) Naphthalene	27.78	128	2865		N.D.	
96) n-Dodecane	27.73	57	7055	0.112	ng	# 67
97) Hexachloro-1,3-butadiene	0.00	225	0		N.D.	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260818.D
 Acq On : 26 May 2008 23:22
 Operator : WA
 Sample : P0801483-008 Dil (25ml)
 Misc : ENSR SG28B-05D (-3.2, 3.6)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 06:13:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260818.D\data.ms

(32) Chloroform (T)
 12.777min (-0.006) 93.24ng
 response 3799168

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.97
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG22B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00957

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.50 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.6	0.16	0.41	0.32	0.032	
74-87-3	Chloromethane	ND	0.32	0.16	ND	0.15	0.077	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.16	ND	0.23	0.023	
75-01-4	Vinyl Chloride	ND	0.32	0.16	ND	0.12	0.062	
74-83-9	Bromomethane	ND	0.32	0.16	ND	0.081	0.041	
75-00-3	Chloroethane	ND	0.32	0.16	ND	0.12	0.060	
64-17-5	Ethanol	5.5	16	0.16	2.9	8.4	0.084	J
67-64-1	Acetone	30	16	0.23	12	6.7	0.097	B
75-69-4	Trichlorofluoromethane	1.1	0.32	0.16	0.19	0.056	0.028	
107-13-1	Acrylonitrile	ND	1.6	0.22	ND	0.73	0.10	
75-35-4	1,1-Dichloroethene	0.57	0.32	0.16	0.14	0.080	0.040	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.82	1.6	0.23	0.27	0.52	0.077	J
75-09-2	Methylene Chloride	1.2	1.6	0.16	0.36	0.45	0.045	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.32	0.16	ND	0.10	0.050	
76-13-1	Trichlorotrifluoroethane	0.50	0.32	0.18	0.065	0.041	0.023	
75-15-0	Carbon Disulfide	0.78	1.6	0.38	0.25	0.51	0.12	J
156-60-5	trans-1,2-Dichloroethene	ND	0.32	0.16	ND	0.080	0.040	
75-34-3	1,1-Dichloroethane	ND	0.32	0.16	ND	0.078	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.32	0.16	ND	0.088	0.044	
108-05-4	Vinyl Acetate	4.9	16	0.51	1.4	4.5	0.14	J
78-93-3	2-Butanone (MEK)	5.3	1.6	0.16	1.8	0.54	0.054	
156-59-2	cis-1,2-Dichloroethene	0.18	0.32	0.16	0.045	0.080	0.040	J
108-20-3	Diisopropyl Ether	ND	1.6	0.19	ND	0.38	0.045	
67-66-3	Chloroform	1,300	0.32	0.19	270	0.065	0.038	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 5/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG22B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00957

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.50 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.6	0.16	ND	0.38	0.039	
107-06-2	1,2-Dichloroethane	ND	0.32	0.16	ND	0.078	0.039	
71-55-6	1,1,1-Trichloroethane	ND	0.32	0.16	ND	0.058	0.029	
71-43-2	Benzene	2.2	0.32	0.16	0.70	0.099	0.049	
56-23-5	Carbon Tetrachloride	2.1	0.32	0.16	0.33	0.050	0.025	
994-05-8	tert-Amyl Methyl Ether	ND	1.6	0.16	ND	0.38	0.038	
78-87-5	1,2-Dichloropropane	ND	0.32	0.16	ND	0.068	0.034	
75-27-4	Bromodichloromethane	0.47	0.32	0.16	0.070	0.047	0.024	
79-01-6	Trichloroethene	1.2	0.32	0.16	0.22	0.059	0.029	
123-91-1	1,4-Dioxane	ND	1.6	0.19	ND	0.44	0.054	
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.39	0.058	
142-82-5	n-Heptane	ND	1.6	0.20	ND	0.39	0.049	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.16	ND	0.35	0.036	
108-10-1	4-Methyl-2-pentanone	0.26	1.6	0.18	0.062	0.39	0.043	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.20	ND	0.35	0.044	
79-00-5	1,1,2-Trichloroethane	ND	0.32	0.16	ND	0.058	0.029	
108-88-3	Toluene	8.9	1.6	0.16	2.4	0.42	0.042	
591-78-6	2-Hexanone	0.53	1.6	0.24	0.13	0.39	0.059	J
124-48-1	Dibromochloromethane	ND	0.32	0.21	ND	0.037	0.025	
106-93-4	1,2-Dibromoethane	ND	0.32	0.17	ND	0.041	0.022	
111-65-9	n-Octane	0.16	1.6	0.16	0.035	0.34	0.034	J
127-18-4	Tetrachloroethene	18	0.32	0.16	2.7	0.047	0.023	
108-90-7	Chlorobenzene	1.1	0.32	0.16	0.23	0.069	0.035	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG22B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00957

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.50 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	1.6	1.6	0.20	0.38	0.36	0.045	
179601-23-1	m,p-Xylenes	7.4	1.6	0.41	1.7	0.36	0.095	
75-25-2	Bromoform	ND	1.6	0.24	ND	0.15	0.023	
100-42-5	Styrene	0.33	1.6	0.24	0.079	0.37	0.056	J
95-47-6	o-Xylene	2.8	1.6	0.20	0.64	0.36	0.046	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.32	0.20	ND	0.046	0.029	
98-82-8	Cumene	ND	1.6	0.18	ND	0.32	0.036	
103-65-1	n-Propylbenzene	0.28	1.6	0.16	0.058	0.32	0.033	J
622-96-8	4-Ethyltoluene	0.42	1.6	0.18	0.086	0.32	0.037	J
108-67-8	1,3,5-Trimethylbenzene	0.32	1.6	0.19	0.066	0.32	0.039	J
98-83-9	alpha-Methylstyrene	ND	1.6	0.23	ND	0.33	0.048	
95-63-6	1,2,4-Trimethylbenzene	1.0	1.6	0.22	0.21	0.32	0.044	J
100-44-7	Benzyl Chloride	ND	0.32	0.27	ND	0.061	0.053	
541-73-1	1,3-Dichlorobenzene	0.21	0.32	0.20	0.035	0.053	0.033	J
106-46-7	1,4-Dichlorobenzene	11	0.32	0.18	1.9	0.053	0.029	
135-98-8	sec-Butylbenzene	ND	1.6	0.18	ND	0.29	0.033	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.23	1.6	0.21	0.043	0.29	0.037	J
95-50-1	1,2-Dichlorobenzene	0.64	0.32	0.21	0.11	0.053	0.035	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.24	ND	0.16	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	0.32	0.24	ND	0.043	0.032	
91-20-3	Naphthalene	1.8	0.63	0.23	0.34	0.12	0.045	
87-68-3	Hexachlorobutadiene	19	0.32	0.28	1.8	0.030	0.027	
98-06-6	tert-Butylbenzene	ND	0.63	0.16	ND	0.12	0.029	
104-51-8	n-Butylbenzene	0.34	0.63	0.16	0.062	0.12	0.029	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

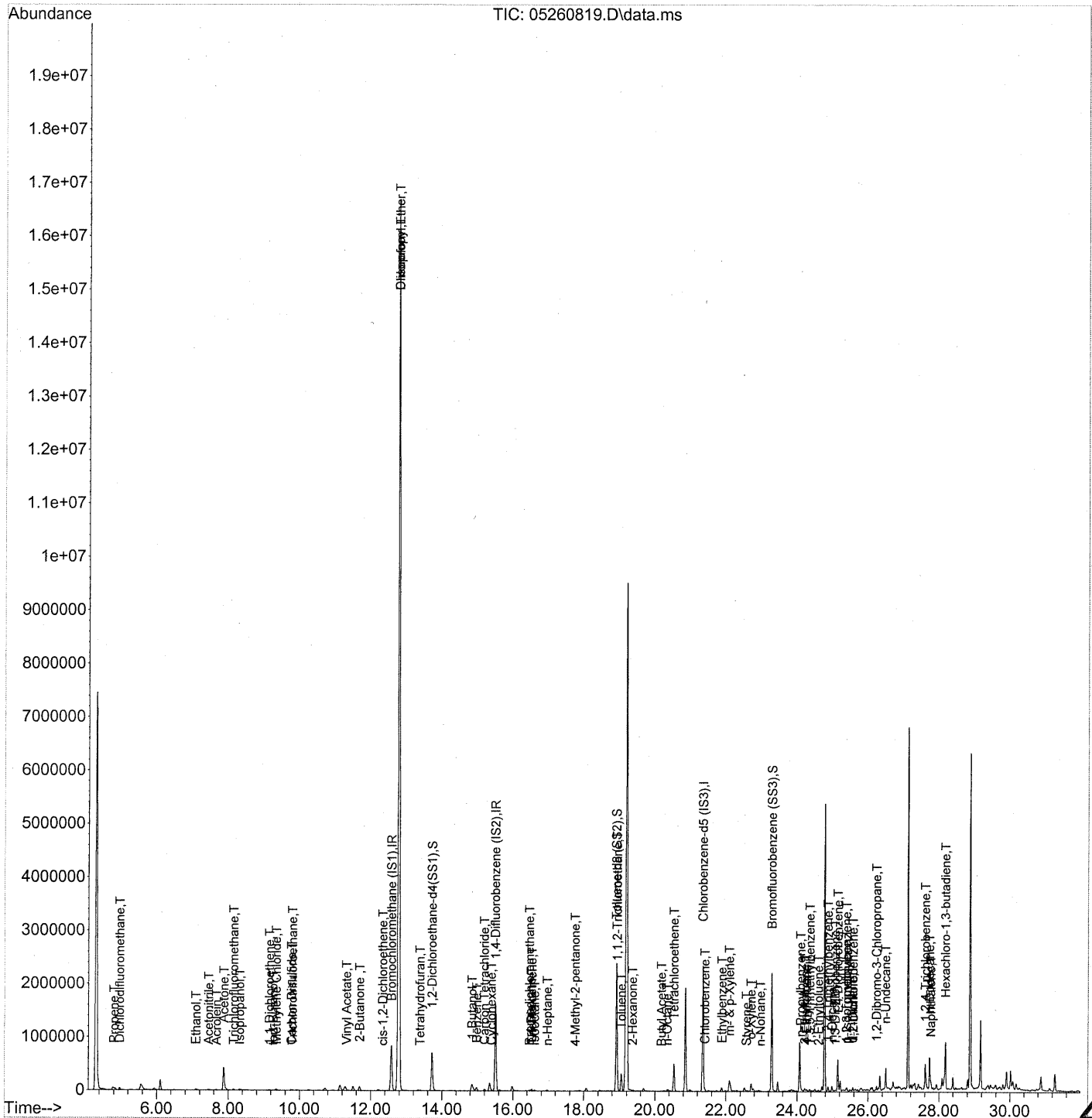
Verified By: *CA*

Date: 6/4/08

458

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 14:15:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 14:15:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	435098	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1879188	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	901484	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.72	65	722797	23.975	ng	0.00	
Spiked Amount	25.000		Recovery	=	95.92%		✓
57) Toluene-d8 (SS2)	18.92	98	1977933	24.430	ng	0.00	
Spiked Amount	25.000		Recovery	=	97.72%		✓
73) Bromofluorobenzene (SS3)	23.29	174	822478	24.982	ng	0.00	
Spiked Amount	25.000		Recovery	=	99.92%		✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	12130	0.353	ng	# 80
3) Dichlorodifluoromethane	4.96	85	40642	0.642	ng	99
4) Chloromethane	5.28	50	66	N.D.	✓	
5) Freon 114	5.54	135	695	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.02	54	1285	N.D.	✓	
8) Bromomethane	6.51	94	856	N.D.	✓	
9) Chloroethane	6.82	64	71	N.D.	✓	
10) Ethanol	7.10	45	39786m	1.739	ng	
11) Acetonitrile	7.45	41	18712	0.283	ng	93
12) Acrolein	7.67	56	8109	0.496	ng	95
13) Acetone	7.88	58	219906	9.389	ng	# 70
14) Trichlorofluoromethane	8.15	101	18802	0.346	ng	100
15) Isopropanol	8.33	45	37772	0.506	ng	91
16) Acrylonitrile	8.64	53	506	N.D.	✓	
17) 1,1-Dichloroethene	9.16	96	4290	0.179	ng	88
18) tert-Butanol	9.27	59	16569m	0.261	ng	
19) Methylene Chloride	9.36	84	10330	0.395	ng	92
20) Allyl Chloride	9.52	41	54	N.D.	✓	
21) Trichlorotrifluoroethane	9.80	151	3887	0.157	ng	83
22) Carbon Disulfide	9.77	76	24470	0.246	ng	98
23) trans-1,2-Dichloroethene	10.72	61	260	N.D.	✓	
24) 1,1-Dichloroethane	11.10	63	1100	N.D.	✓	
25) Methyl tert-Butyl Ether	11.22	73	2378	N.D.	✓	
26) Vinyl Acetate	11.33	86	6775	1.565	ng	# 3
27) 2-Butanone	11.69	72	28507	1.668	ng	98
28) cis-1,2-Dichloroethene	12.34	61	2123	0.057	ng	92
29) Diisopropyl Ether	12.78	87	2028481	96.838	ng	# 1
30) Ethyl Acetate	12.70	61	410	N.D.		
31) n-Hexane	12.69	57	2198	N.D.		

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 14:15:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	17659937	445.108 ng	See Dil	96
34) Tetrahydrofuran	13.38	72	1634	0.100	ng #	50
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.90	62	164	N.D.	✓	
38) 1,1,1-Trichloroethane	14.29	97	1341	N.D.	✓	
39) Isopropyl Acetate	14.97	61	371	N.D.		
40) 1-Butanol	14.85	56	125352	4.853	ng	91
41) Benzene	14.99	78	69737	0.709	ng	98
42) Carbon Tetrachloride	15.20	117	24653	0.651	ng	98
43) Cyclohexane	15.40	84	2464	0.064	ng #	1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	16.20	63	944	N.D.	✓	
46) Bromodichloromethane	16.47	83	4929	0.148	ng	89
47) Trichloroethene	16.54	130	11205	0.371	ng	88
48) 1,4-Dioxane	16.52	88	1161	0.063	ng NR	84
49) Isooctane	16.62	57	9840	0.087	ng #	30
50) Methyl Methacrylate	16.95	100	117	N.D.	✓	
51) n-Heptane	16.97	71	1340	0.051	ng < #IDL	56
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.76	58	2129	0.081	ng #	42
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	173552	7.138	ng NR #	9
58) Toluene	19.06	91	309221	2.810	ng	96
59) 2-Hexanone	19.37	43	12825	0.169	ng	78
60) Dibromochloromethane	0.00	129	0	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.19	43	6057	0.079	ng	86
63) n-Octane	20.35	57	1235	0.051	ng #	73
64) Tetrachloroethene	20.54	166	190136	5.839	ng	99
65) Chlorobenzene	21.41	112	25249	0.342	ng	98
66) Ethylbenzene	21.89	91	65054	0.516	ng	93
67) m- & p-Xylene	22.10	91	198020	2.346	ng	92
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	22.58	104	7984	0.106	ng	86
70) o-Xylene	22.71	91	80115	0.879	ng	93
71) n-Nonane	22.98	43	6961	0.108	ng #	79
72) 1,1,2,2-Tetrachloroethane	22.72	83	700	N.D.	✓	
74) Cumene	23.46	105	3611	N.D.	✓	
75) alpha-Pinene	23.95	93	3098	N.D.		
76) n-Propylbenzene	24.10	91	13927	0.090	ng #	84
77) 3-Ethyltoluene	24.22	105	27982	0.217	ng	98
78) 4-Ethyltoluene	24.28	105	15971	0.133	ng	95
79) 1,3,5-Trimethylbenzene	24.37	105	11047	0.102	ng	98

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 14:15:18 2008

Quant Method : J:\MS13\METHODS\R13052208.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu May 22 11:37:04 2008

Response via : Initial Calibration

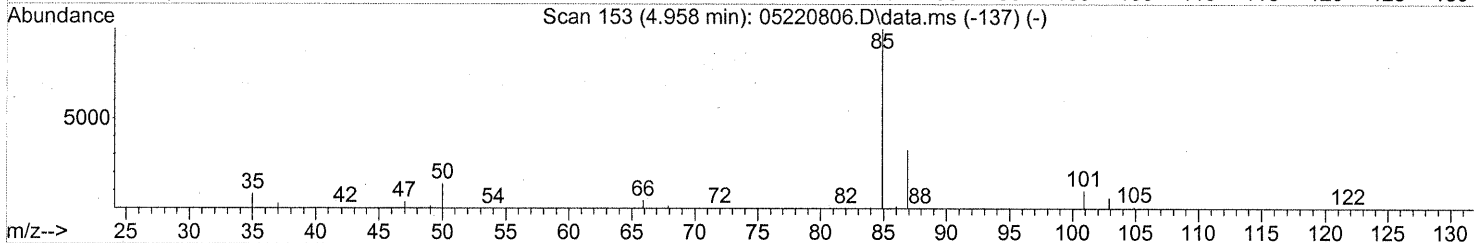
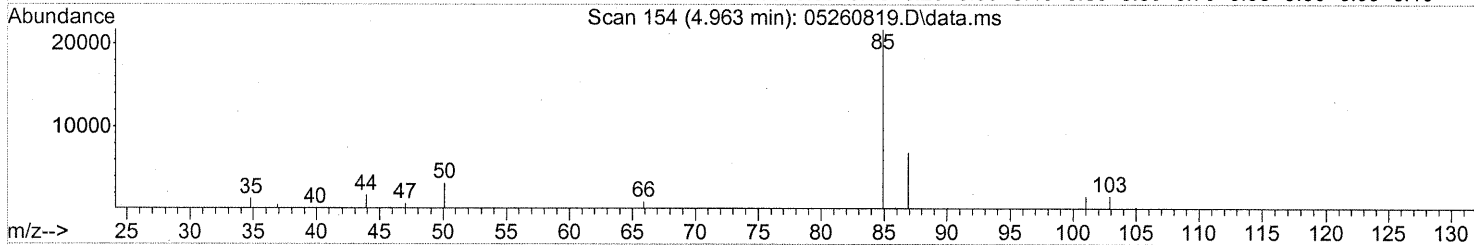
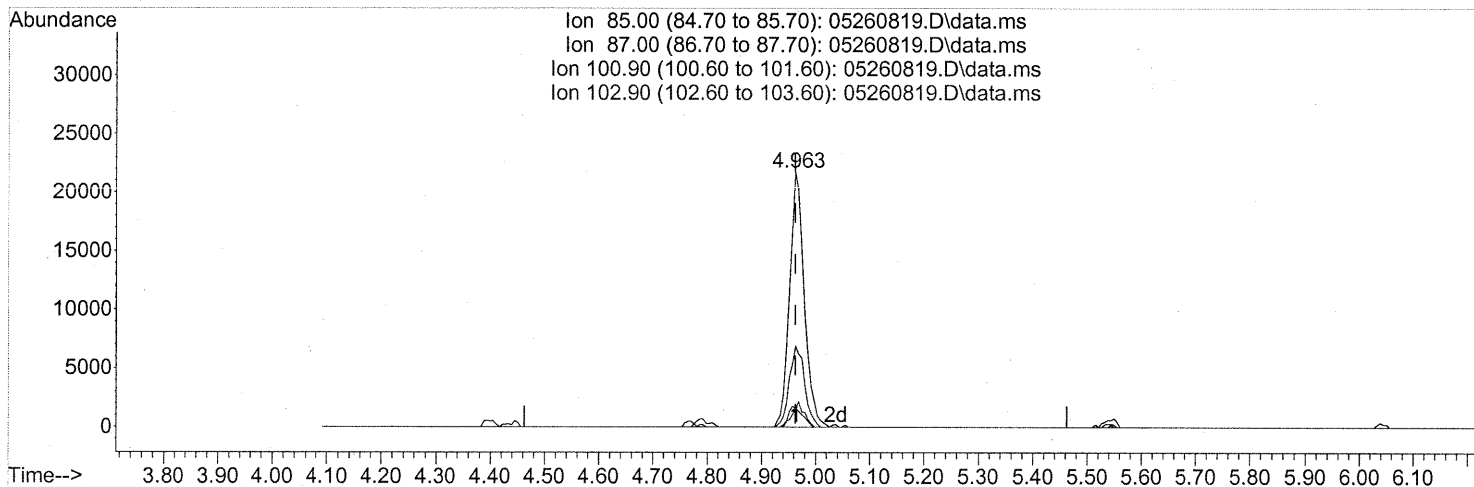
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	1395	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	16150	0.123	ng	97
82) 1,2,4-Trimethylbenzene	24.88	105	35702	0.322	ng	90
83) n-Decane	24.98	57	35115	0.576	ng	75
84) Benzyl Chloride	25.06	91	354	N.D.	✓	
85) 1,3-Dichlorobenzene	25.08	146	4604	0.066	ng	94
86) 1,4-Dichlorobenzene	25.16	146	237279	3.535	ng	100
87) sec-Butylbenzene	25.21	105	2782	N.D.	✓	
88) p-Isopropyltoluene	25.39	119	8567	0.074	ng	# 77
89) 1,2,3-Trimethylbenzene	25.40	105	17549	0.162	ng	94
90) 1,2-Dichlorobenzene	25.58	146	13228	0.201	ng	98
91) d-Limonene	25.57	68	9030	0.205	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.24	157	4220	0.207	ng MR #	44
93) n-Undecane	26.50	57	164128	2.574	ng	81
94) 1,2,4-Trichlorobenzene	27.62	180	2839	0.059	ng	98
95) Naphthalene	27.77	128	83220	0.570	ng	97
96) n-Dodecane	27.73	57	192968	3.043	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	190676	5.955	ng	97

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260819.D\data.ms

(3) Dichlorodifluoromethane (T)

4.963min (+0.000) 0.64ng

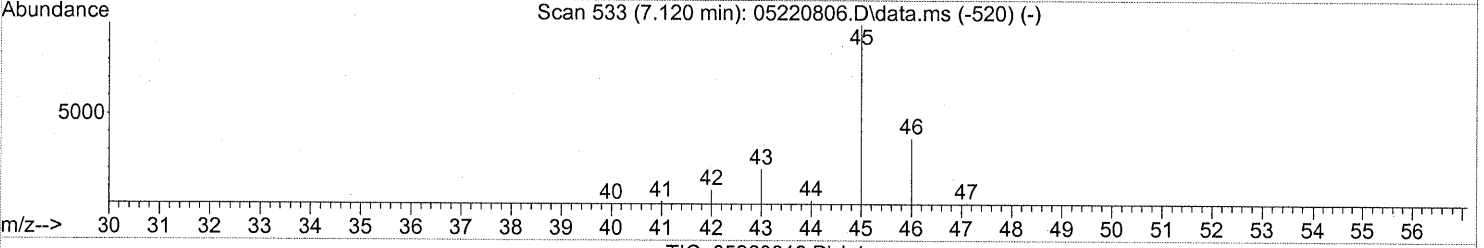
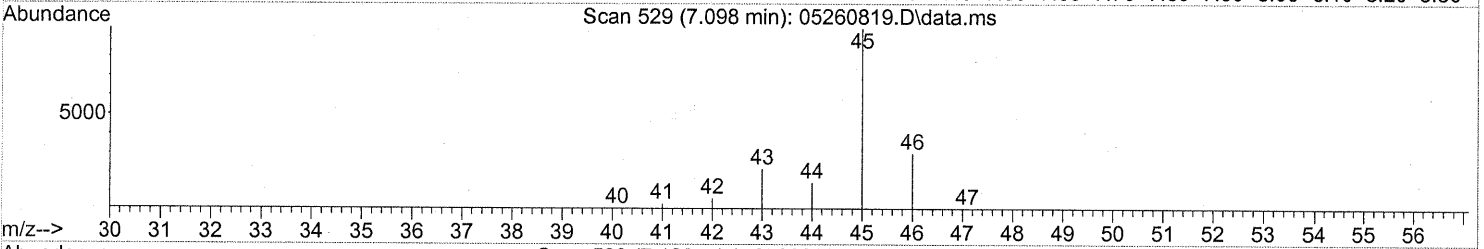
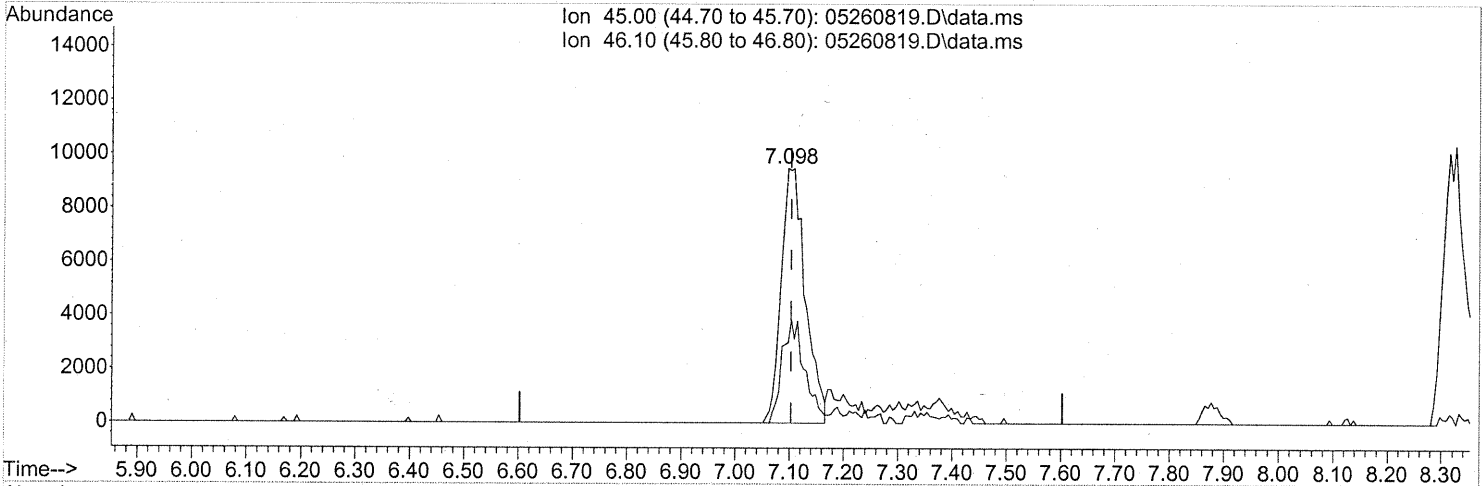
response 40642

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.88
100.90	9.30	8.87
102.90	6.00	6.46

Quantitation Report (Qedit)

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)
 7.098min (-0.006) 1.28ng
 response 29311

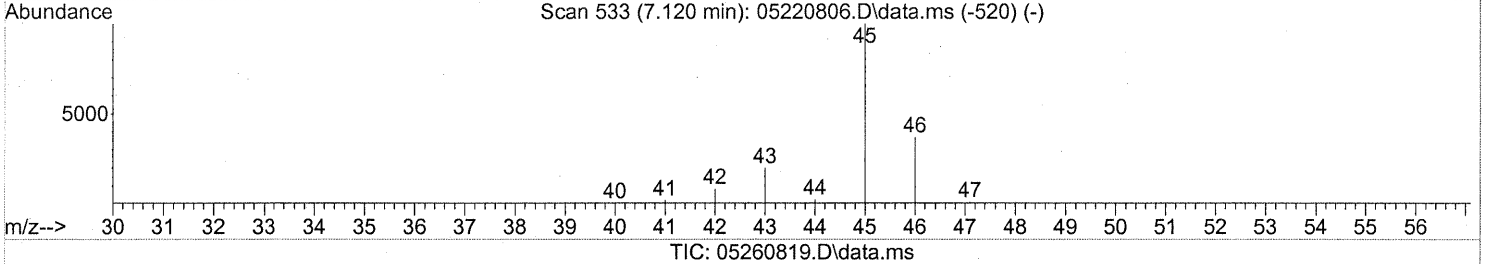
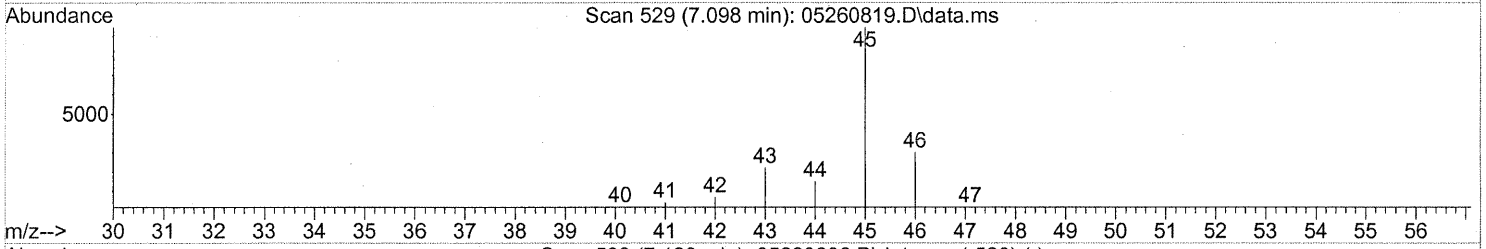
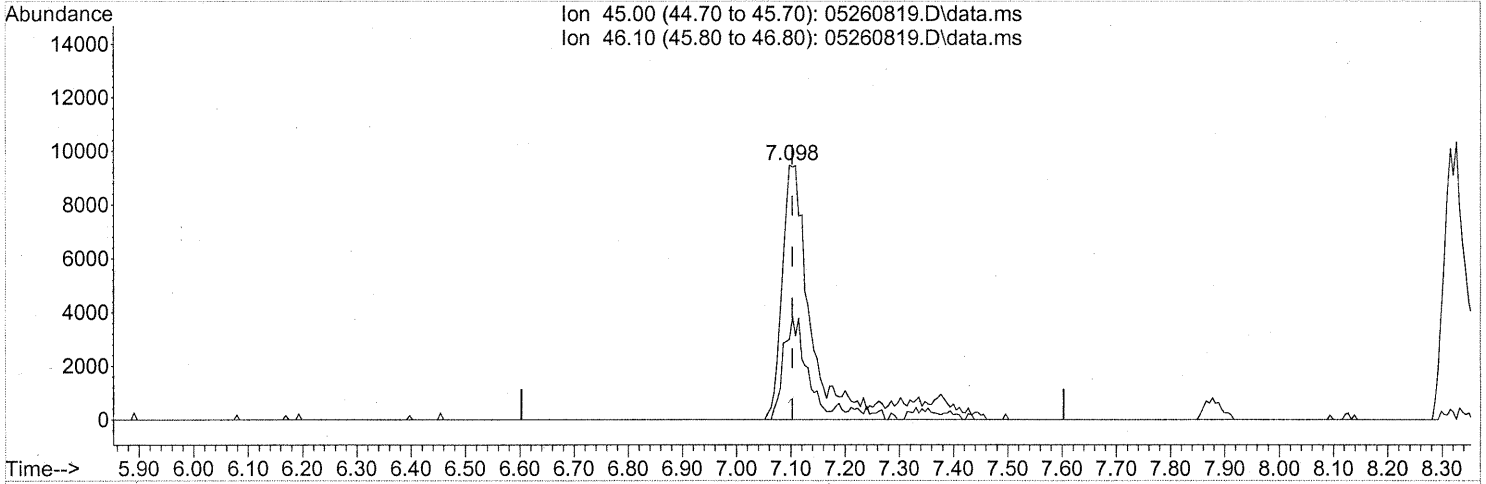
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	38.04
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Quantitation Report (Qedit)

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(10) Ethanol (T)
 7.098min (-0.006) 1.74ng m
 response 39786

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	28.03
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

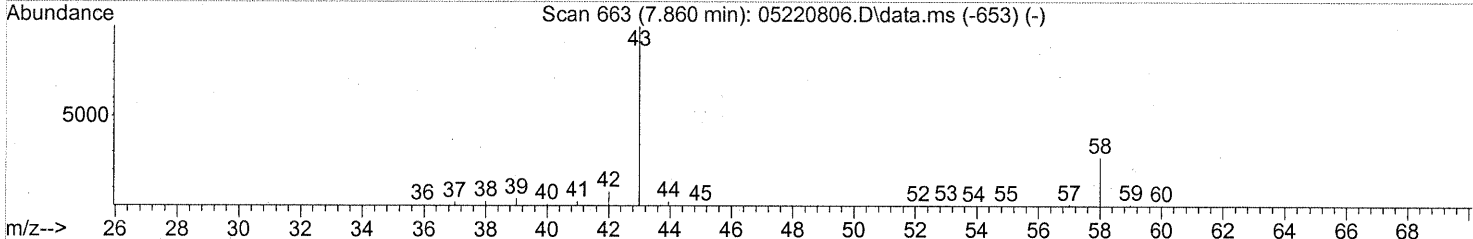
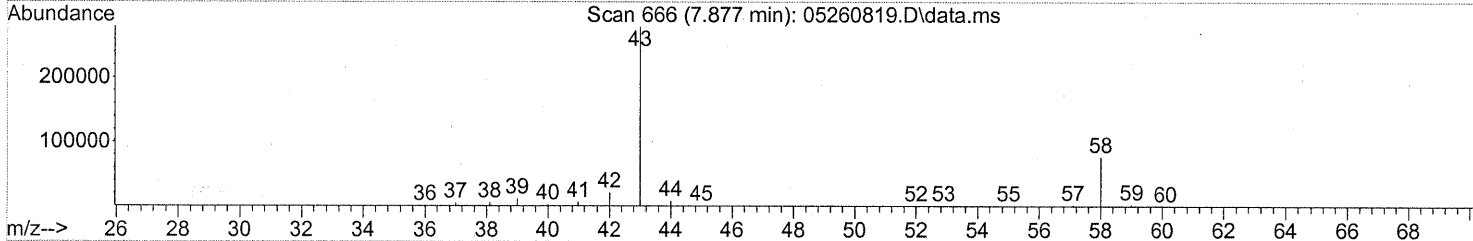
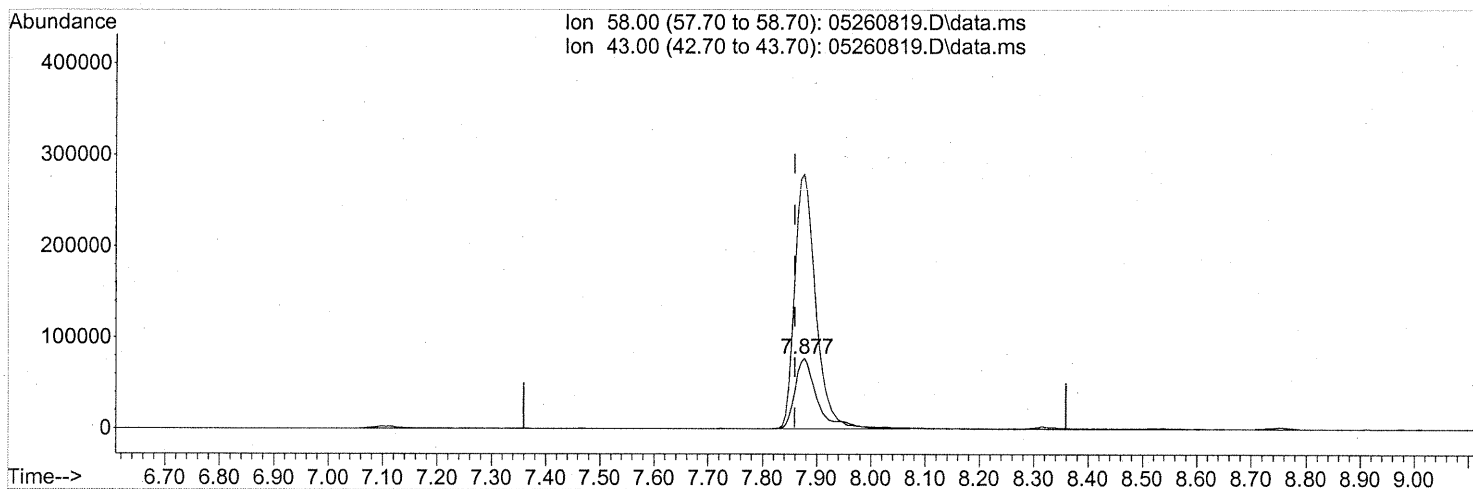
PA 5/3/08

F 05/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
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Acq On : 27 May 2008 00:03
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Response via : Initial Calibration



TIC: 05260819.D\data.ms

(13) Acetone (T)

7.877min (+0.017) 9.39ng

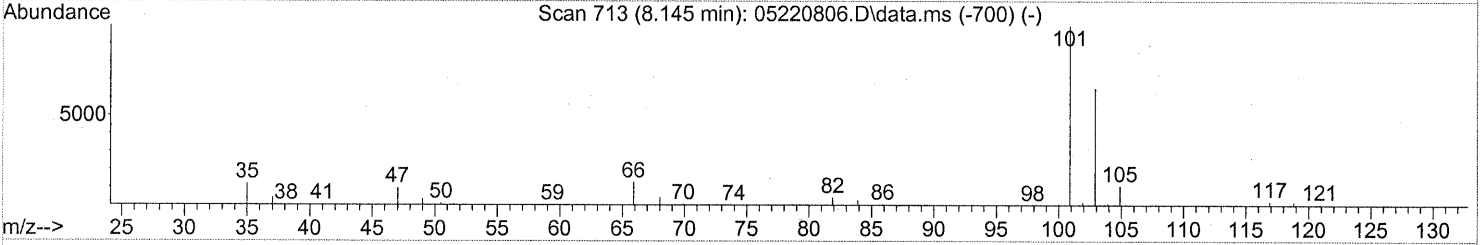
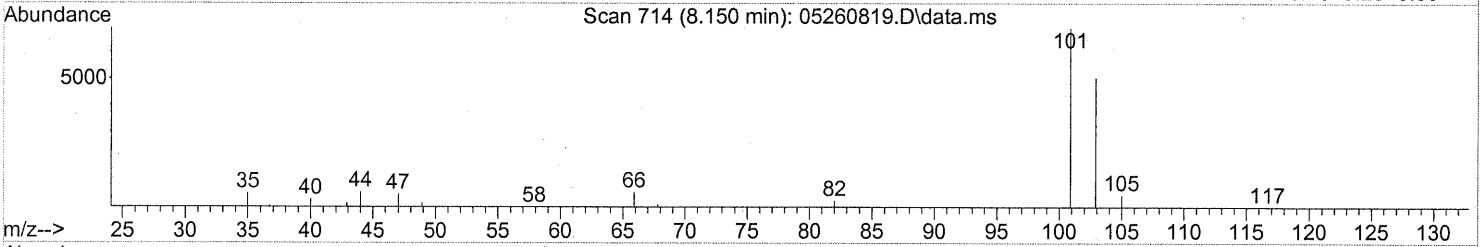
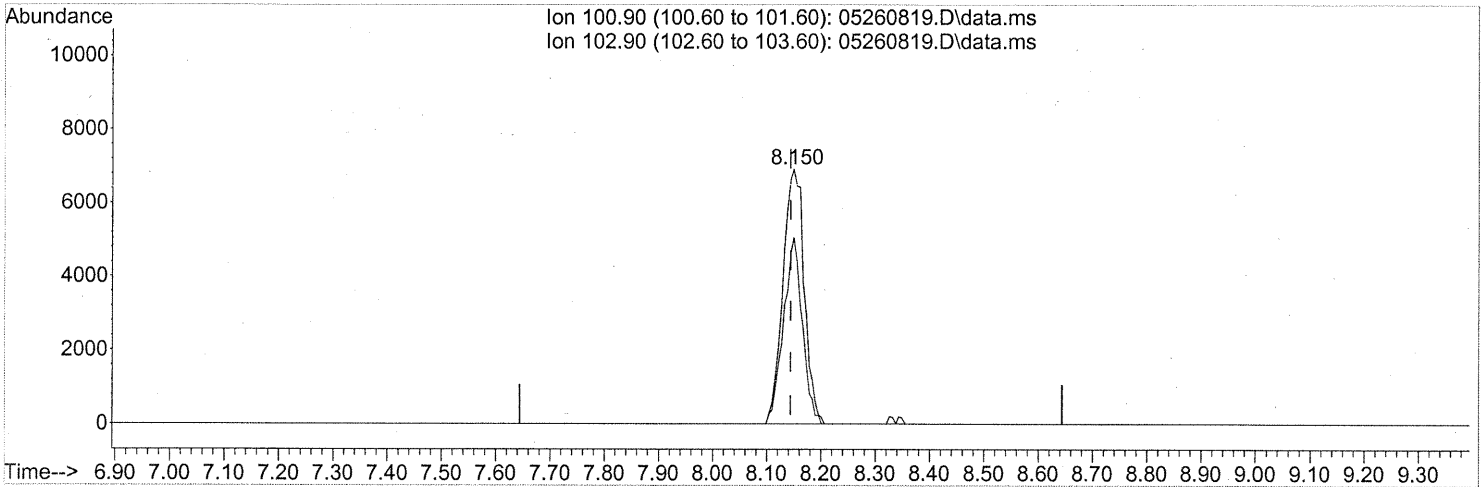
response 219906

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	339.93#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Operator : WA
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 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.150min (+0.006) 0.35ng

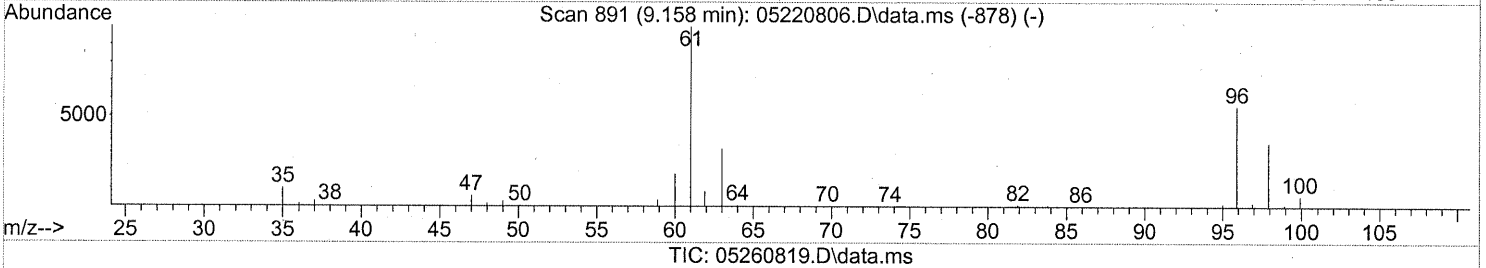
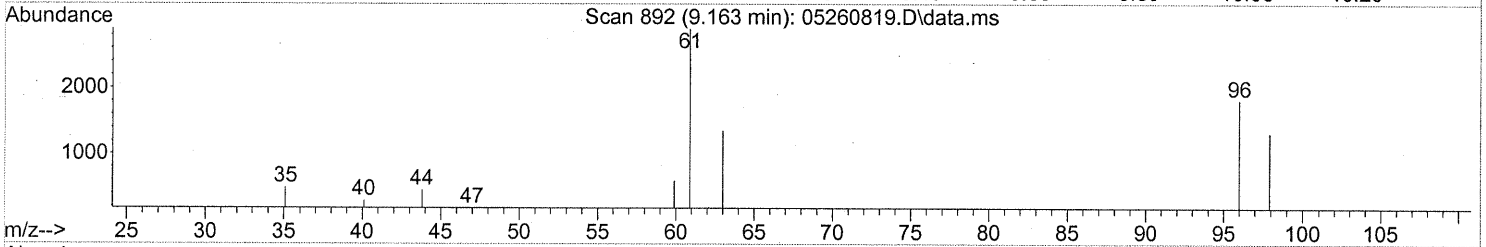
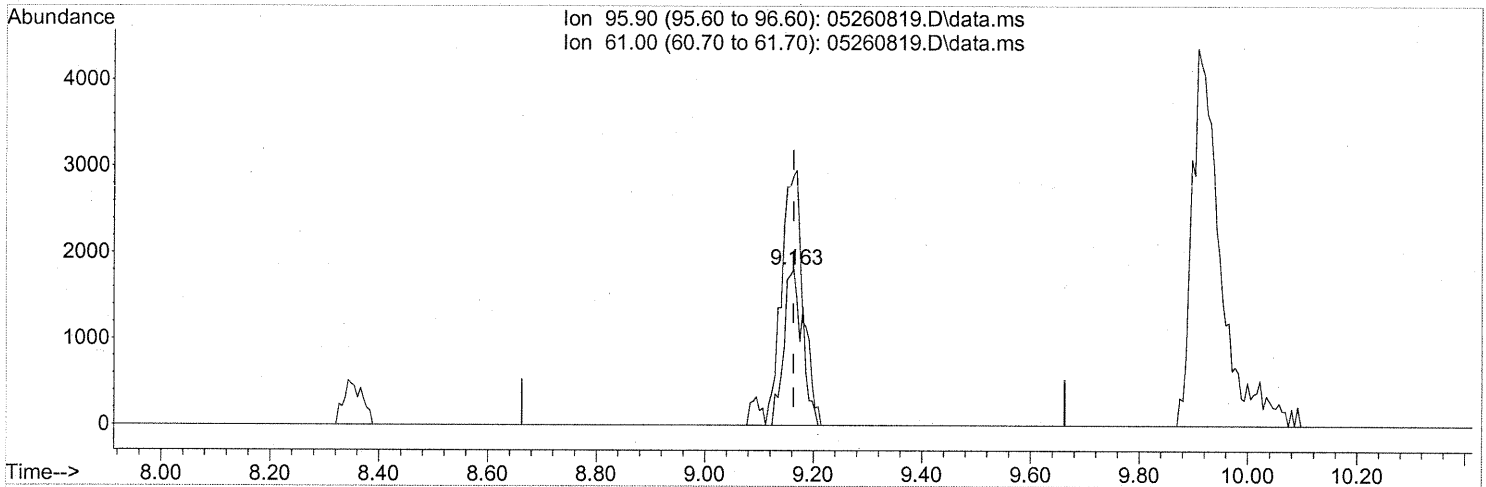
response 18802

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(17) 1,1-Dichloroethene (T)

9.163min (+0.000) 0.18ng

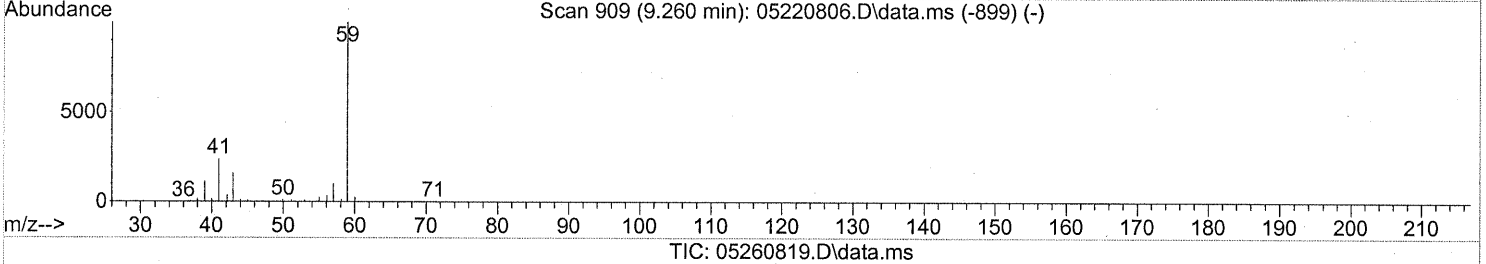
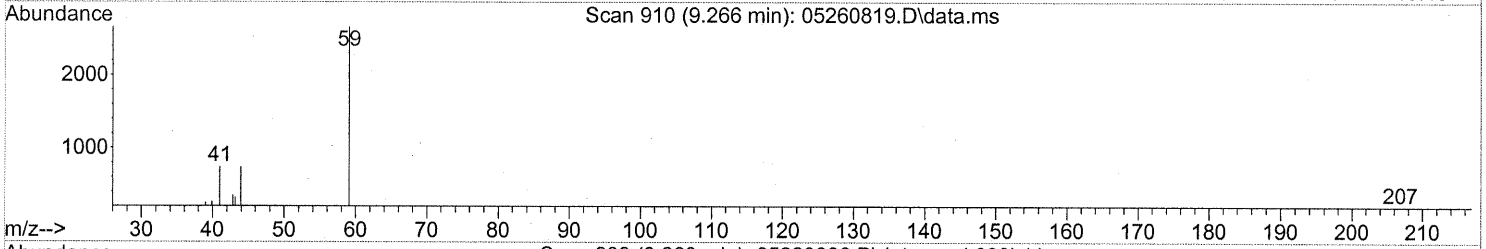
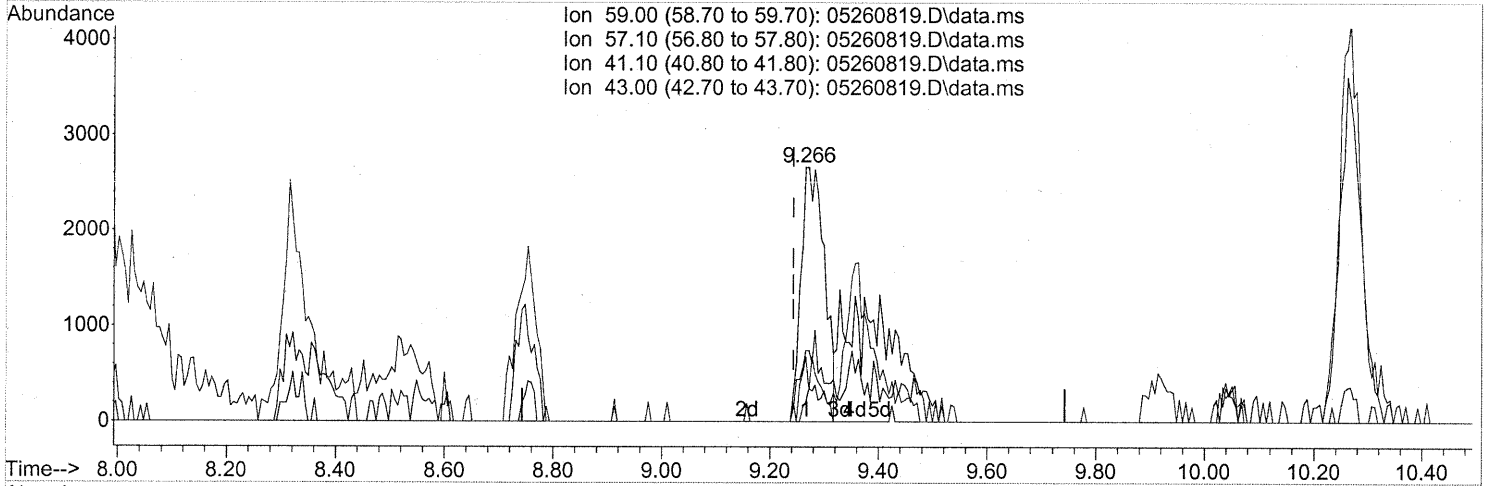
response 4290

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	190.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)
 9.266min (+0.023) 0.13ng
 response 7999

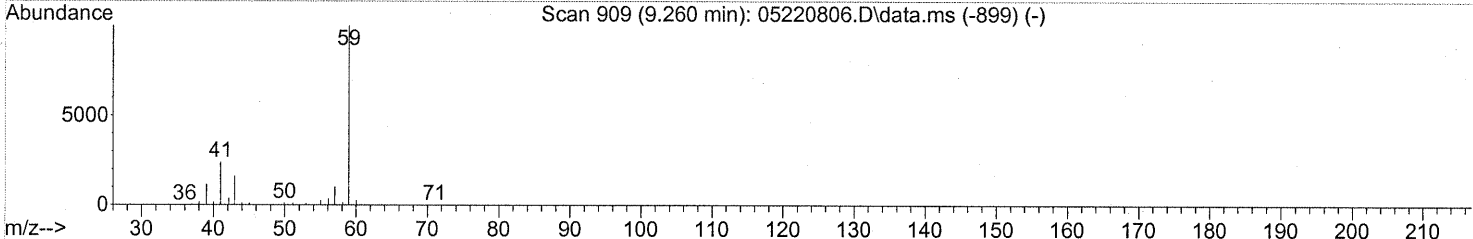
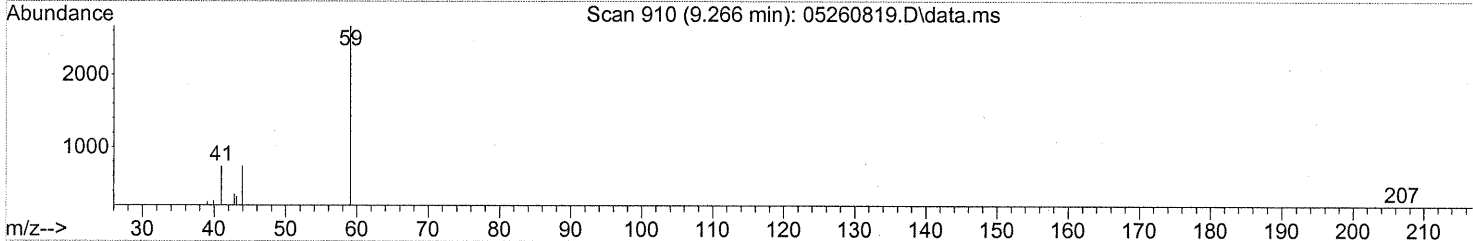
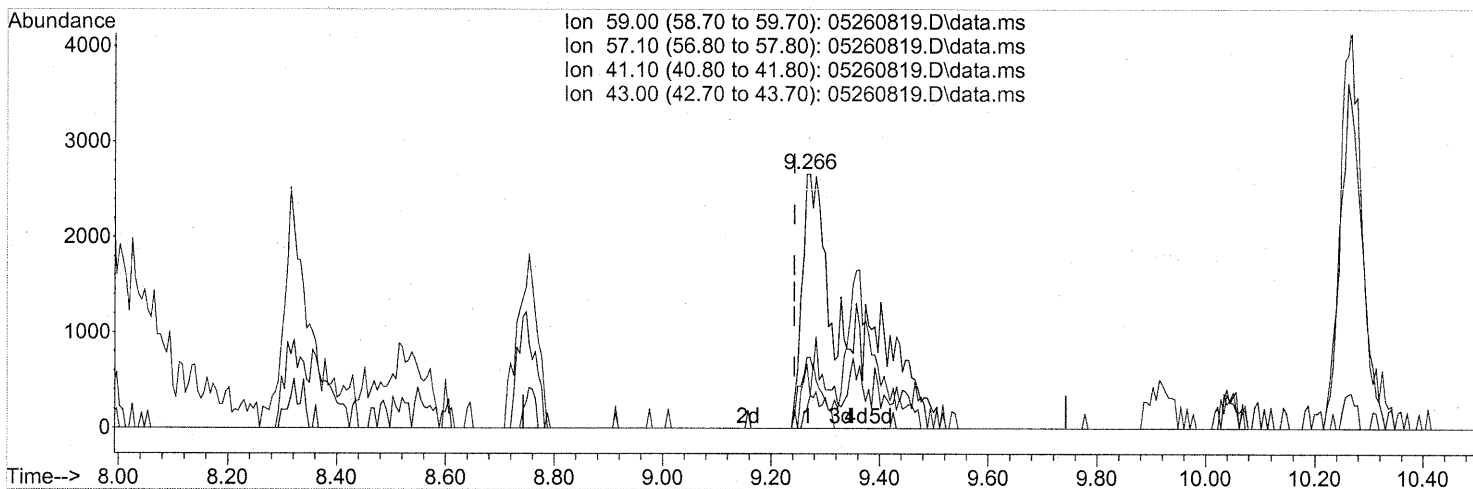
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	10.85
41.10	20.10	33.34
43.00	12.30	19.31

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (+0.023) 0.26ng m

response 16569

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	5.24
41.10	20.10	16.10
43.00	12.30	9.32

int. whole peaks

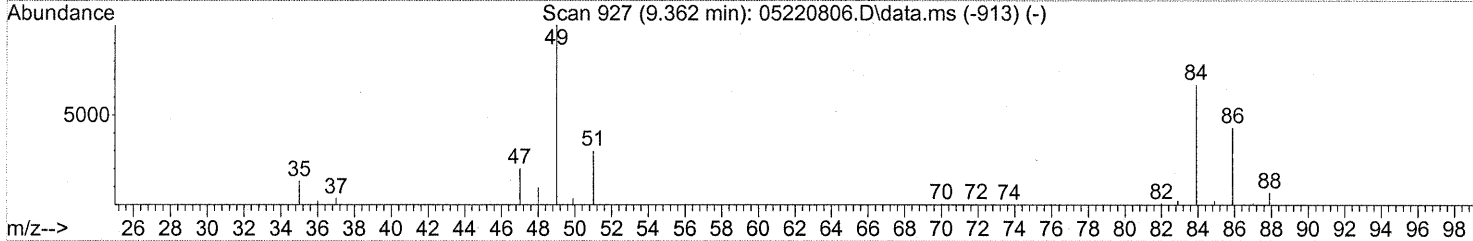
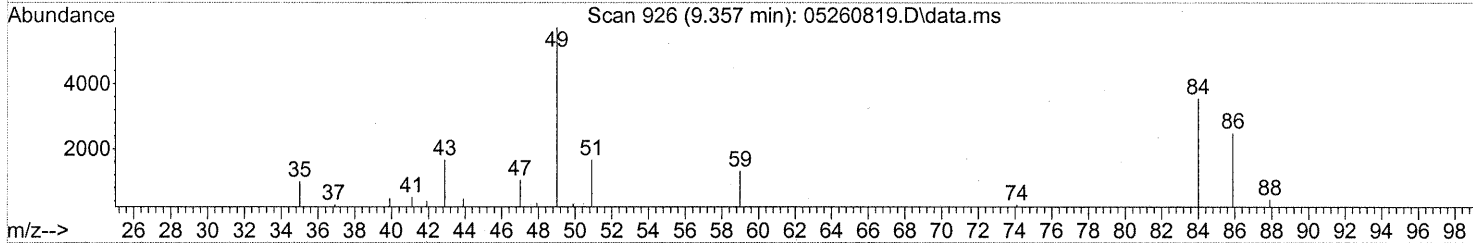
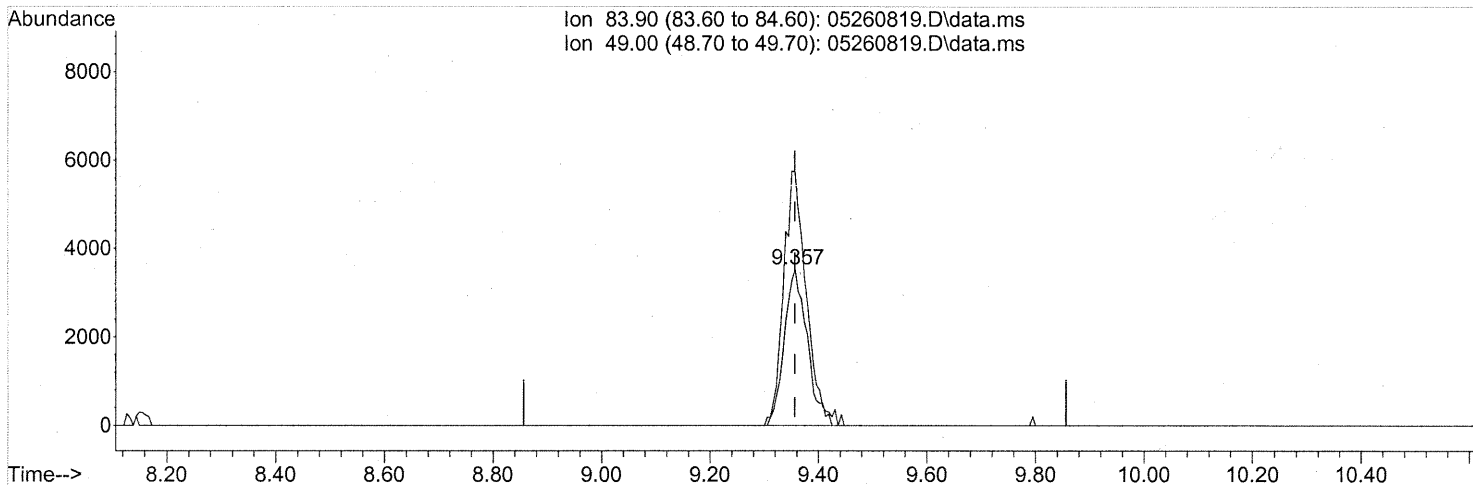
5/31/08

Roc/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260819.D
Acq On : 27 May 2008 00:03
Operator : WA
Sample : P0801483-009 (500ml)
Misc : ENSR SG22B-05 (-3.2, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260819.D\data.ms

(19) Methylene Chloride (T)

9.357min (+0.000) 0.39ng

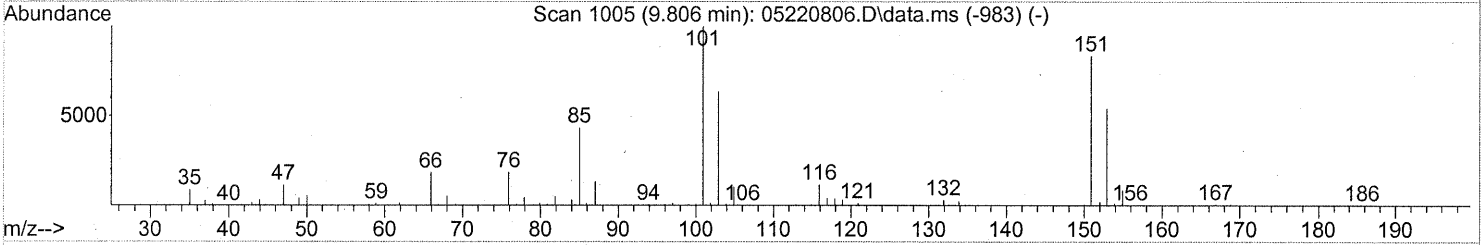
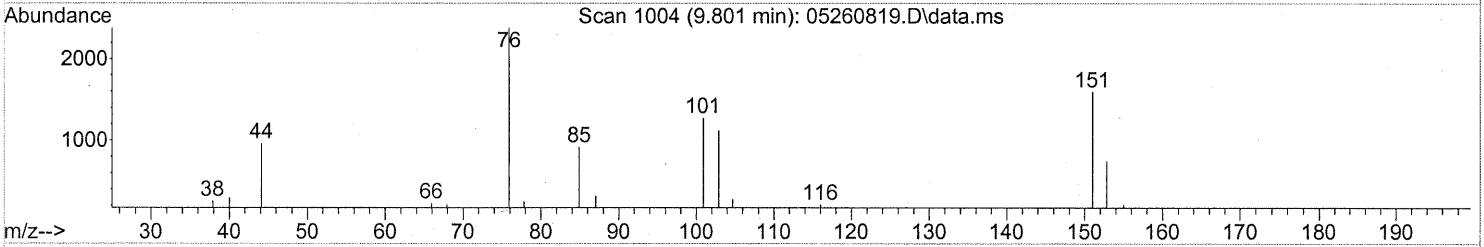
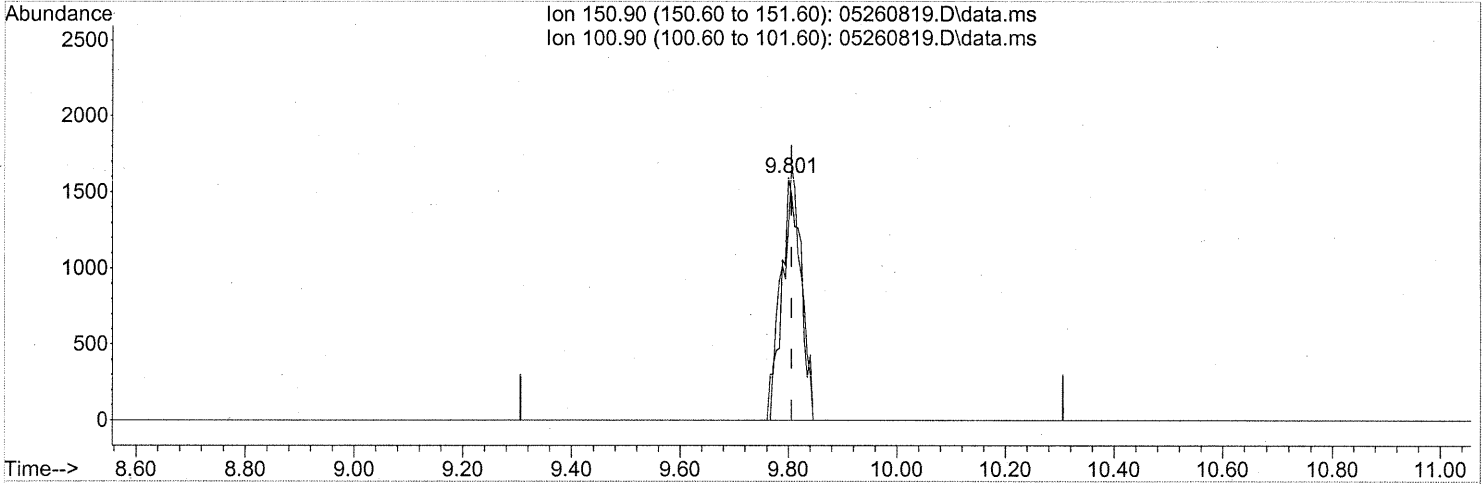
response 10330

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	161.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260819.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.801min (-0.006) 0.16ng

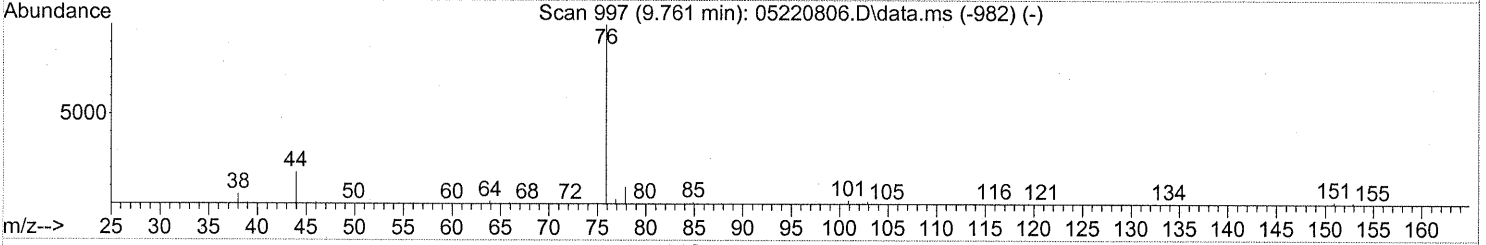
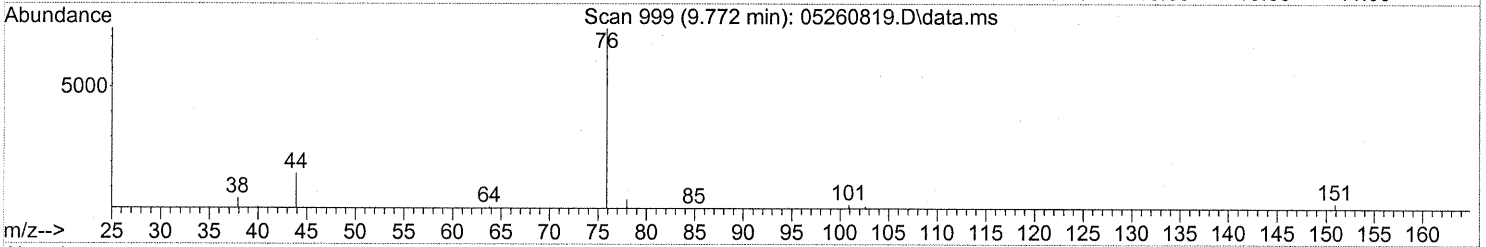
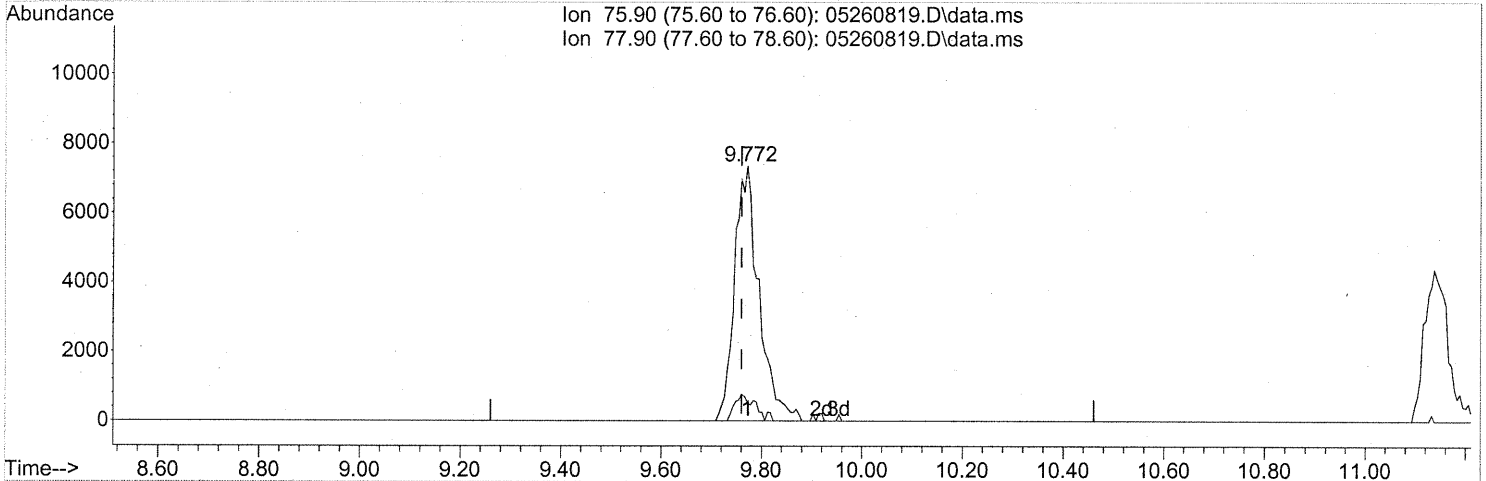
response 3887

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	106.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260819.D\data.ms

(22) Carbon Disulfide (T)

9.772min (+0.011) 0.25ng

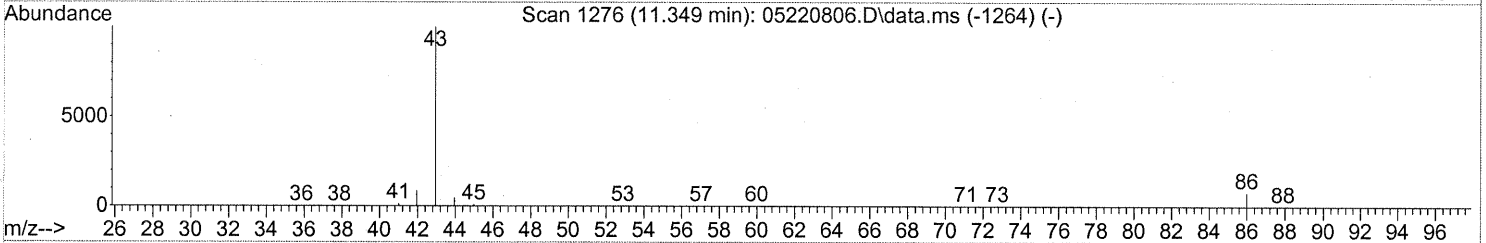
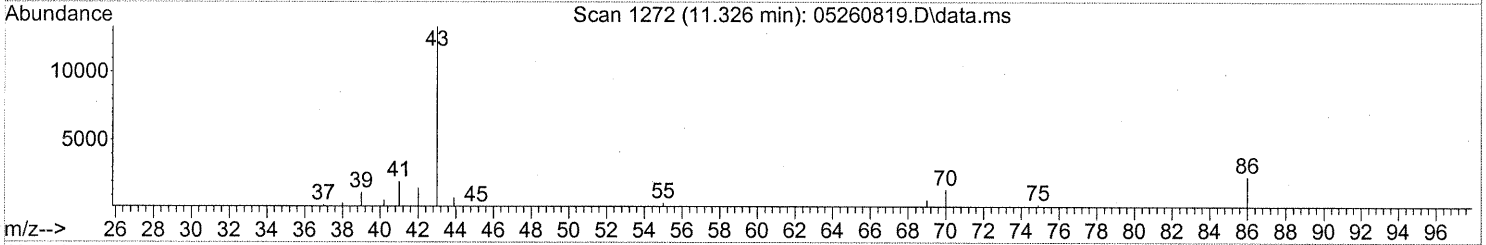
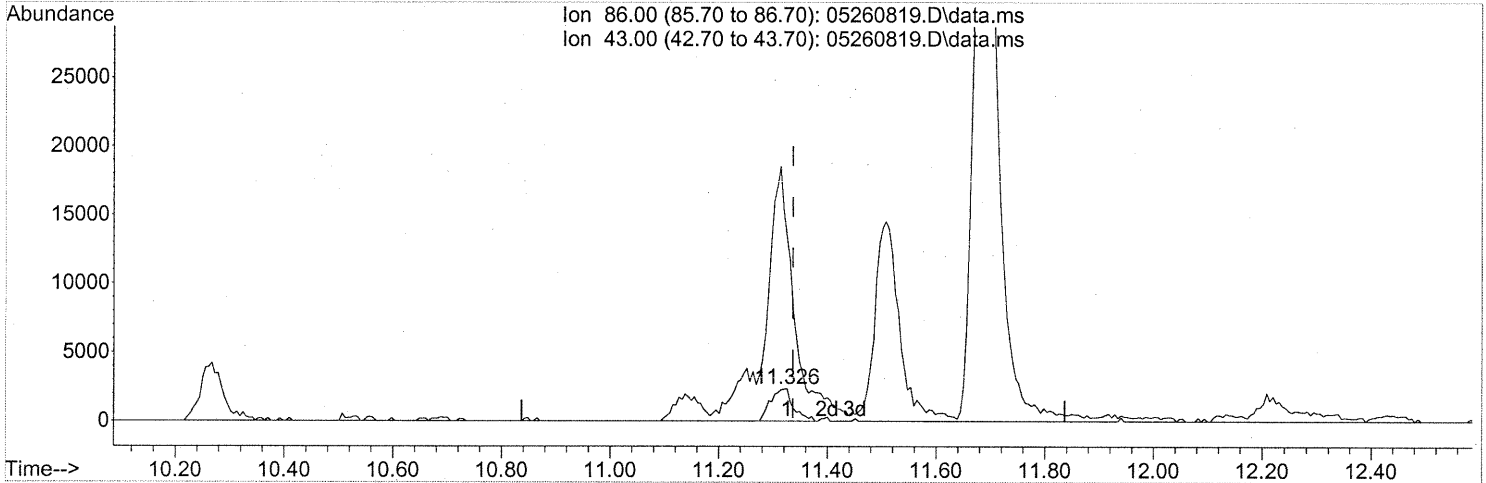
response 24470

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260819.D
Acq On : 27 May 2008 00:03
Operator : WA
Sample : P0801483-009 (500ml)
Misc : ENSR SG22B-05 (-3.2, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260819.D\data.ms

(26) Vinyl Acetate (T)

11.326min (-0.011) 1.57ng

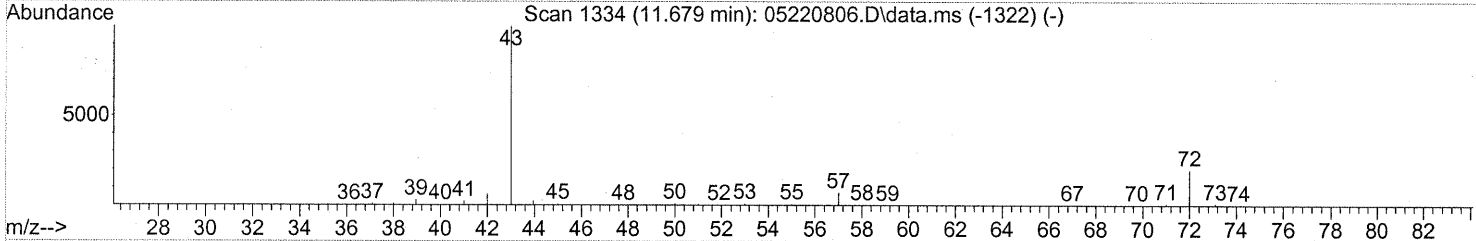
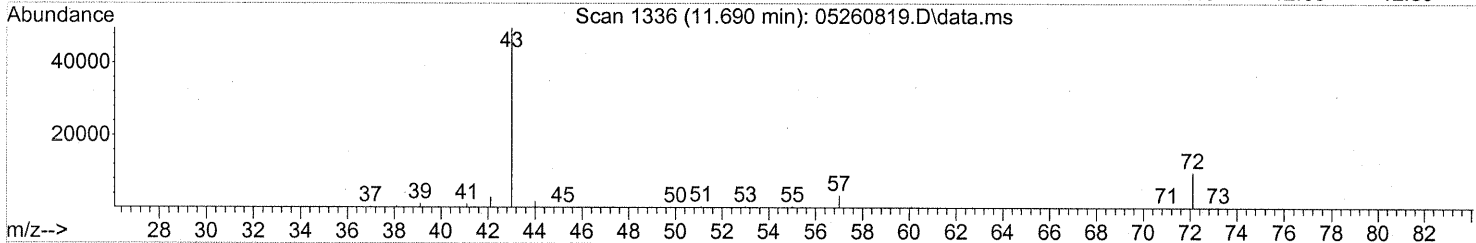
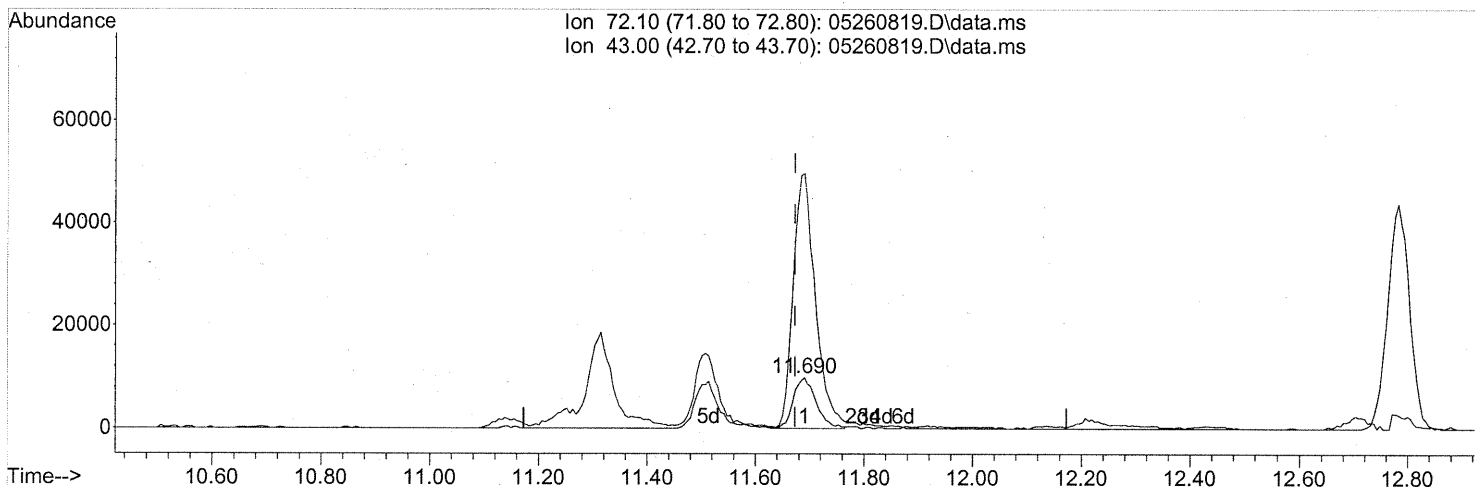
response 6775

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	834.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260819.D\data.ms

(27) 2-Butanone (T)

11.690min (+0.017) 1.67ng

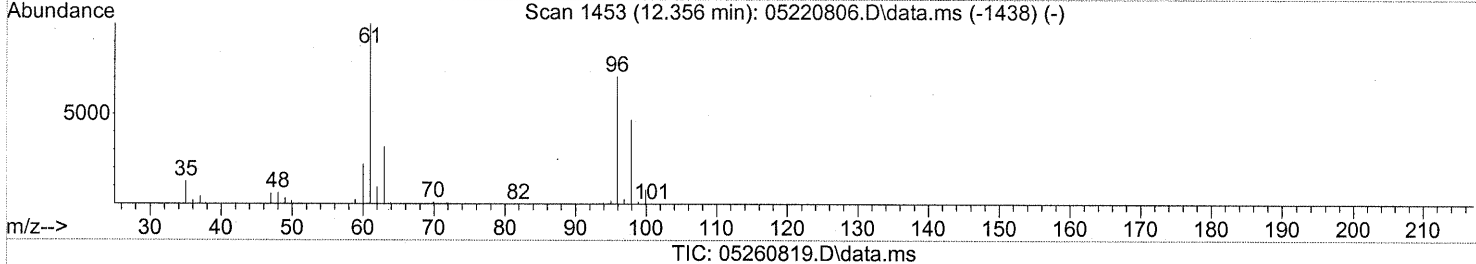
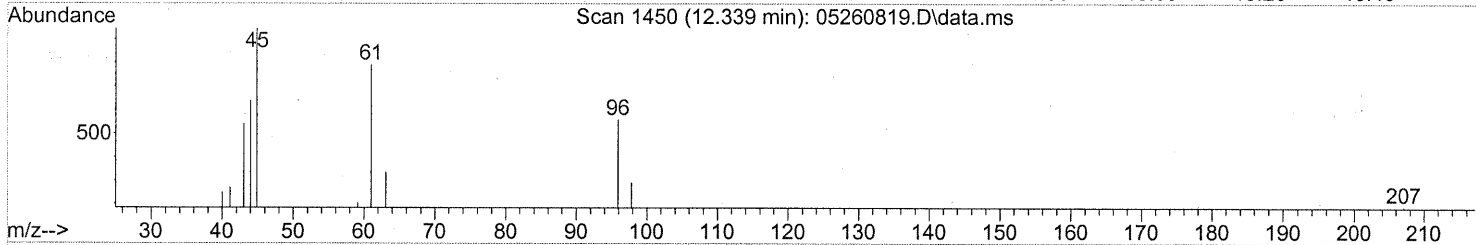
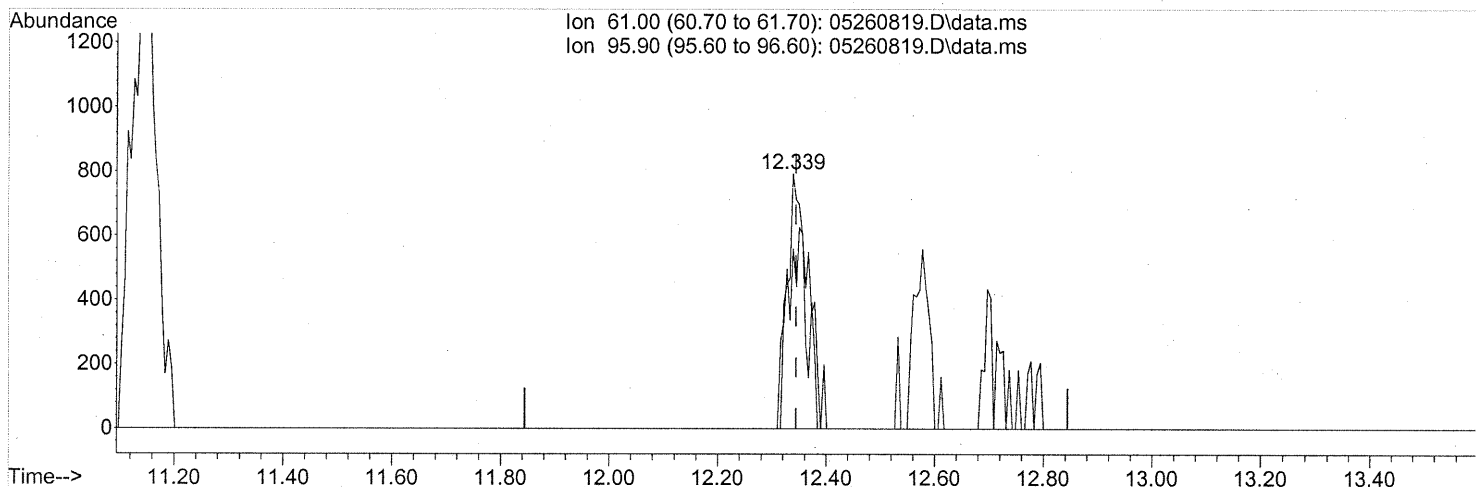
response 28507

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	502.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(28) cis-1,2-Dichloroethene (T)

12.339min (-0.006) 0.06ng

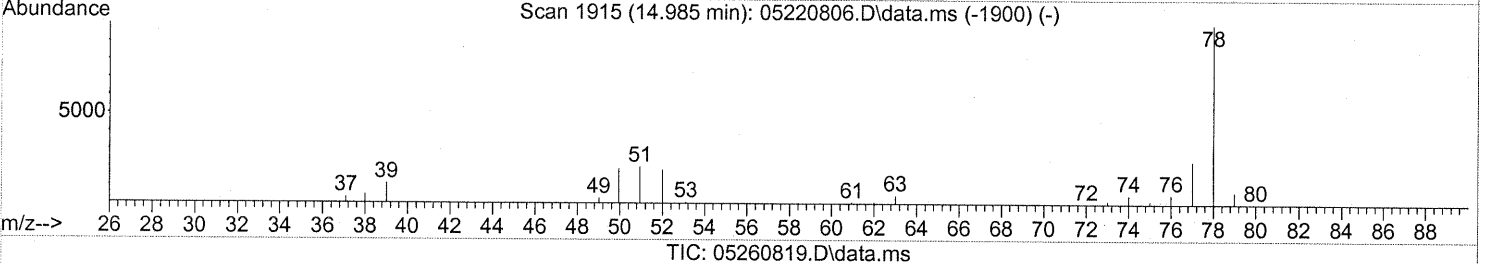
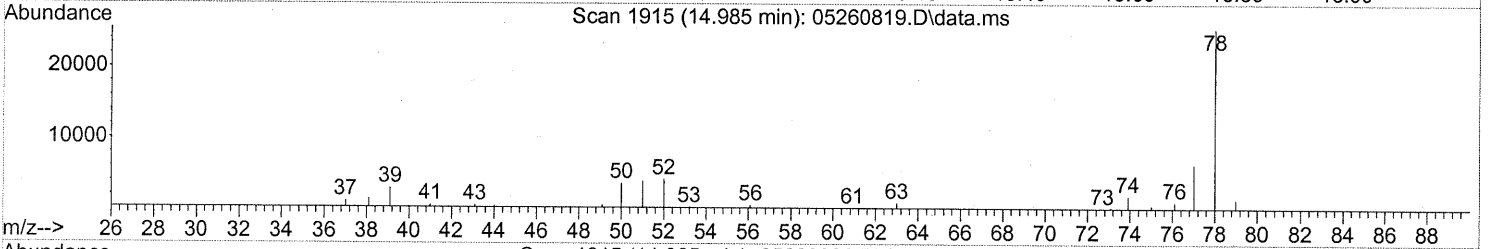
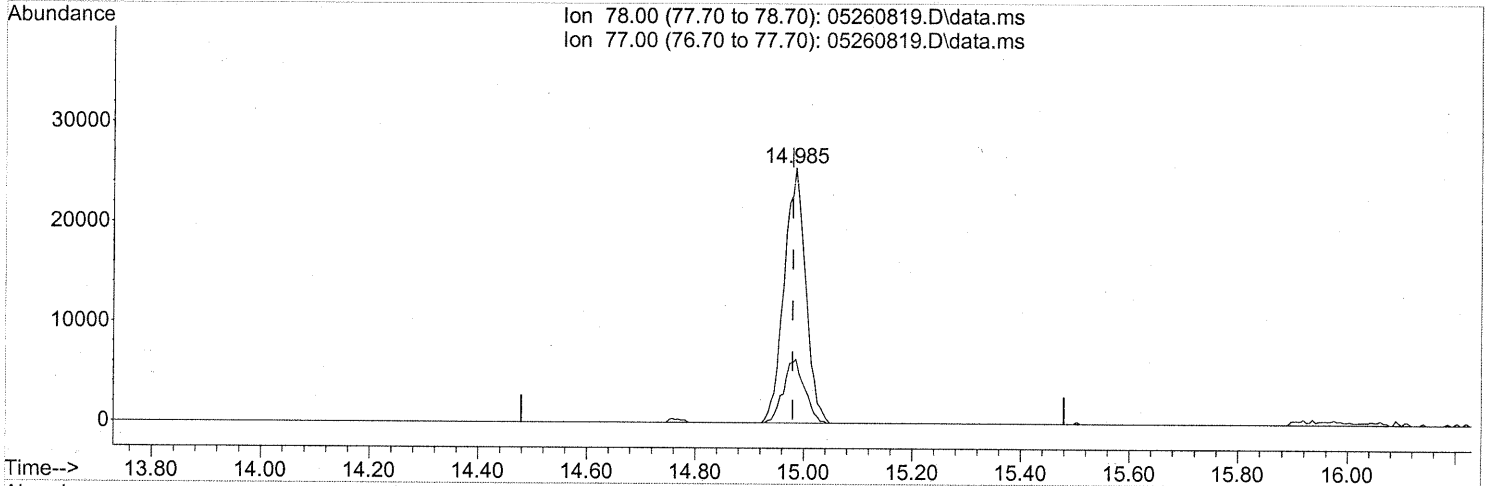
response 2123

Ion	Exp%	Act%
61.00	100	100
95.90	59.60	65.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260819.D
Acq On : 27 May 2008 00:03
Operator : WA
Sample : P0801483-009 (500ml)
Misc : ENSR SG22B-05 (-3.2, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260819.D\data.ms

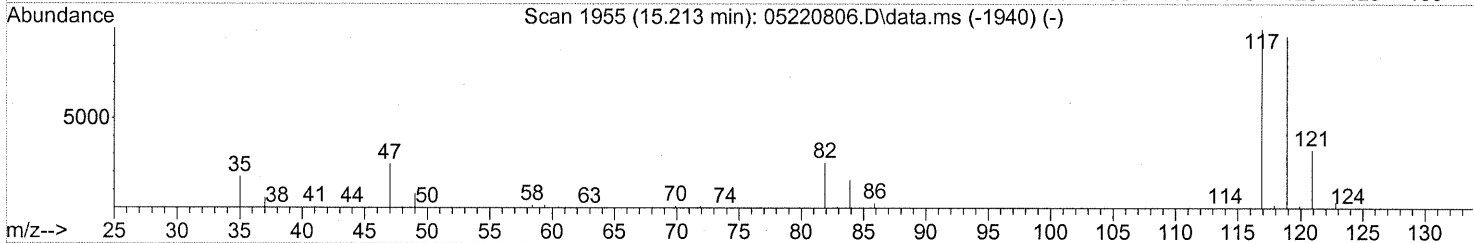
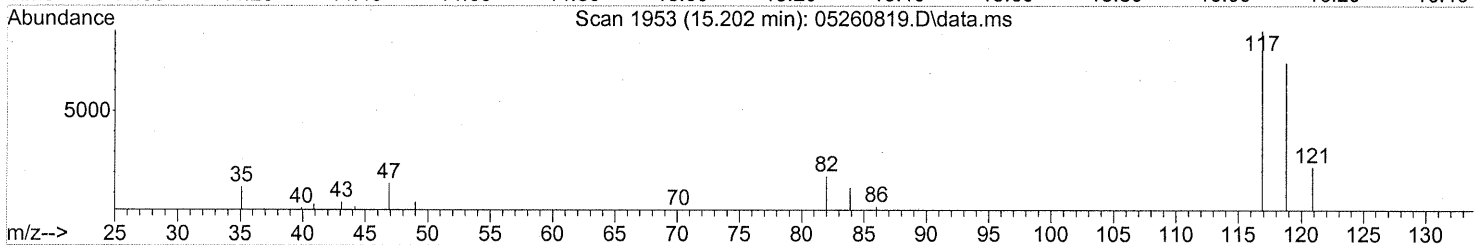
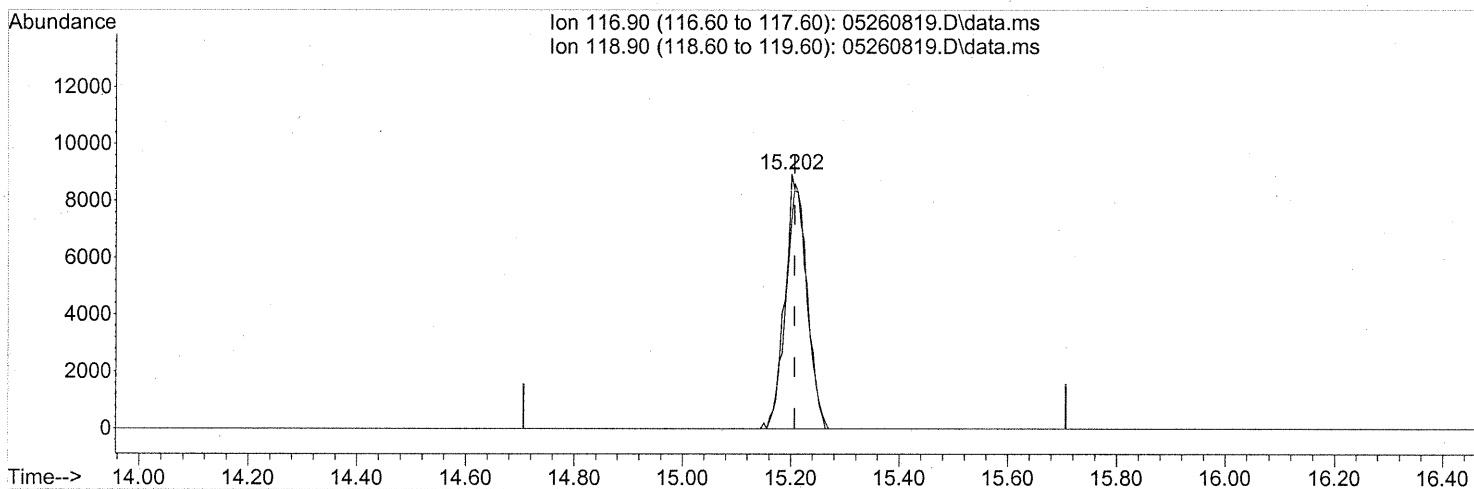
(41) Benzene (T)
14.985min (+0.006) 0.71ng
response 69737

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260819.D
Acq On : 27 May 2008 00:03
Operator : WA
Sample : P0801483-009 (500ml)
Misc : ENSR SG22B-05 (-3.2, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260819.D\data.ms

(42) Carbon Tetrachloride (T)

15.202min (-0.006) 0.65ng

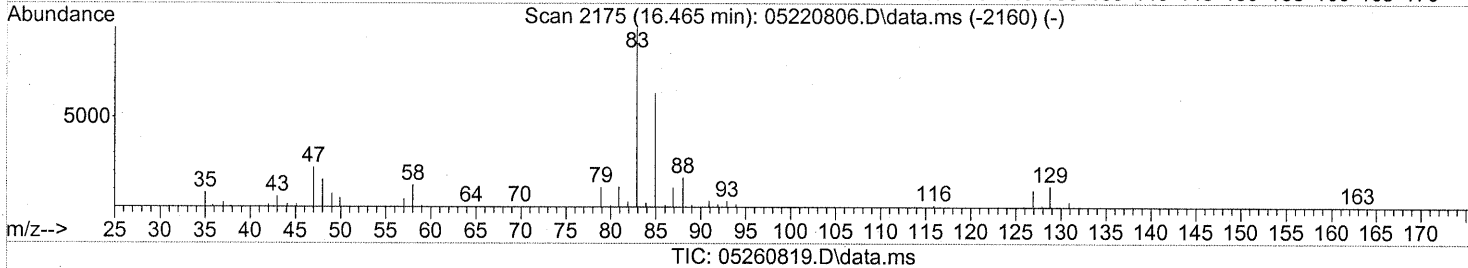
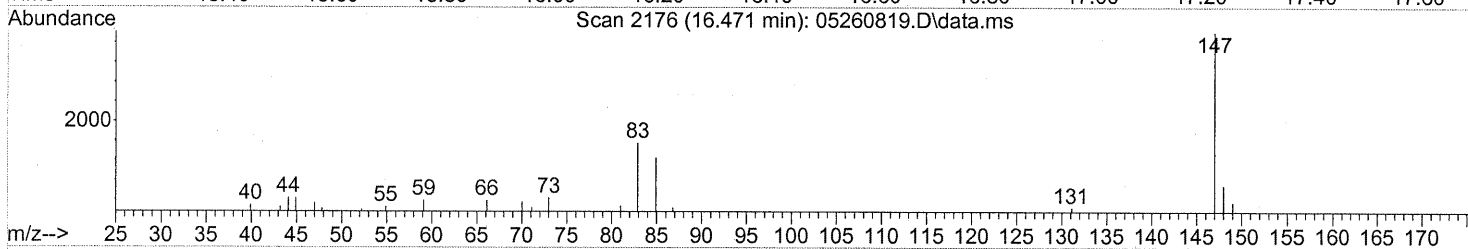
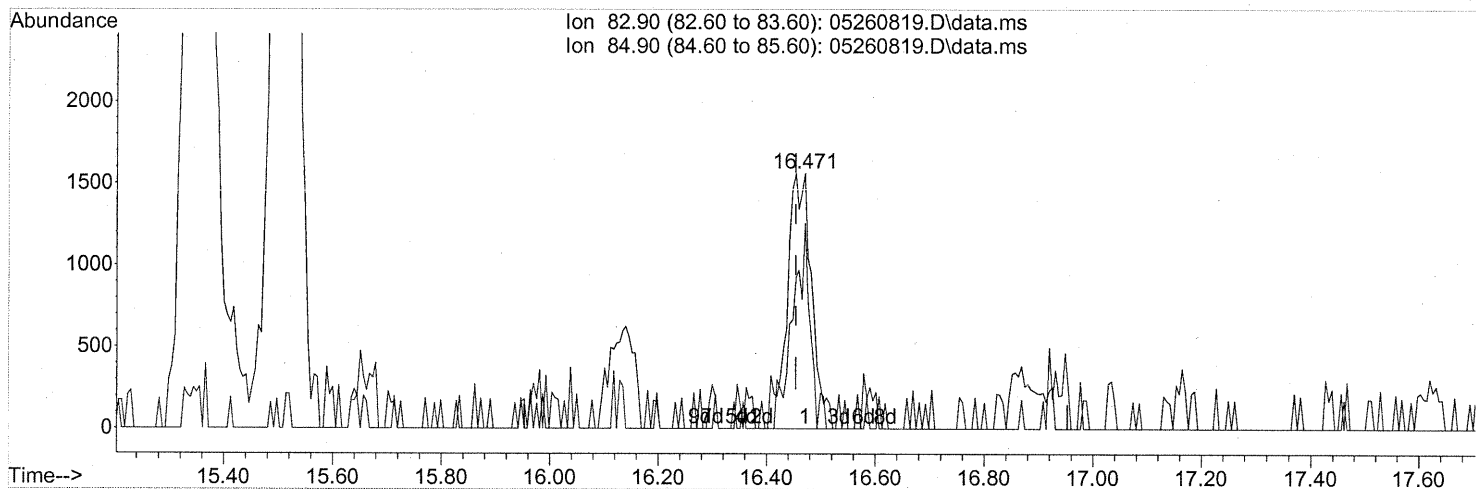
response 24653

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	94.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.471min (+0.017) 0.15ng

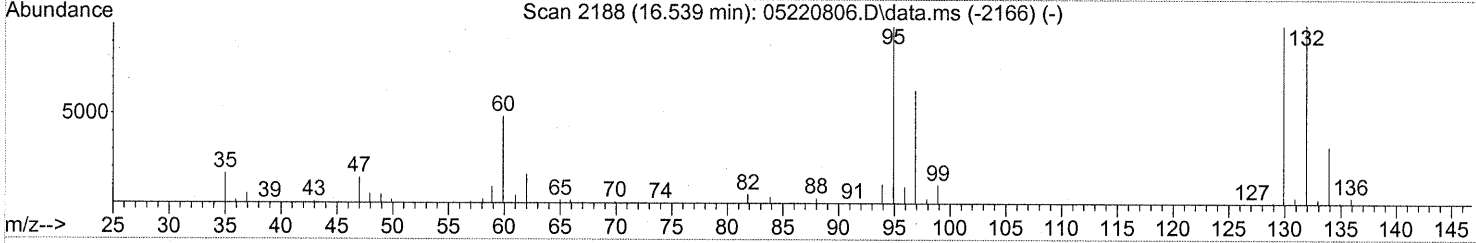
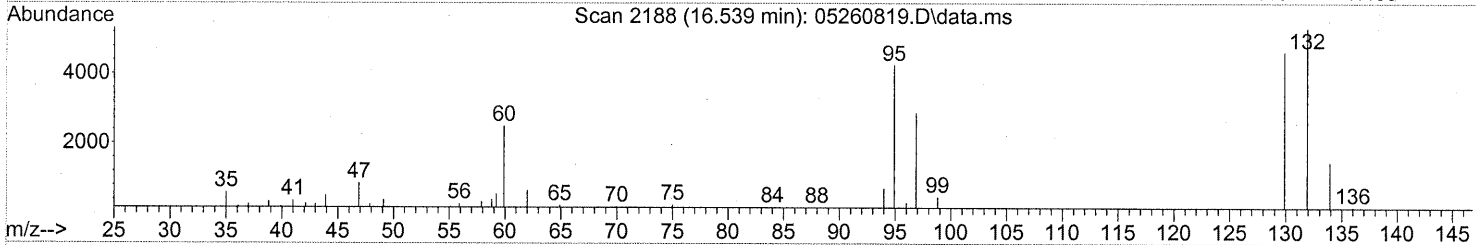
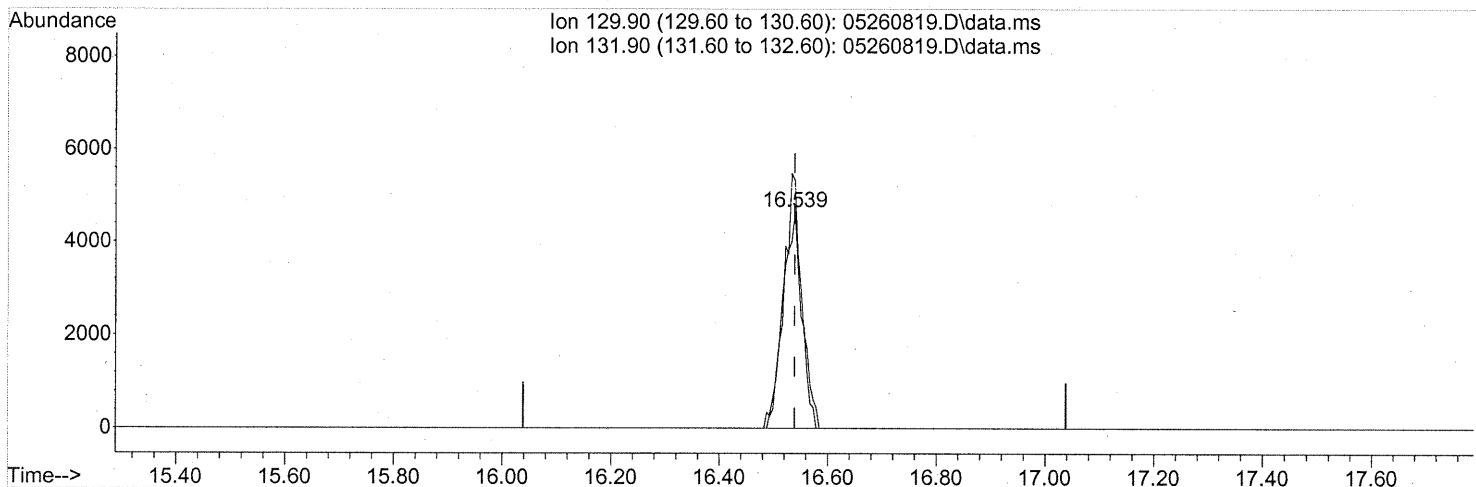
response 4929

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	55.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260819.D
Acq On : 27 May 2008 00:03
Operator : WA
Sample : P0801483-009 (500ml)
Misc : ENSR SG22B-05 (-3.2, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260819.D\data.ms

(47) Trichloroethene (T)

16.539min (+0.000) 0.37ng

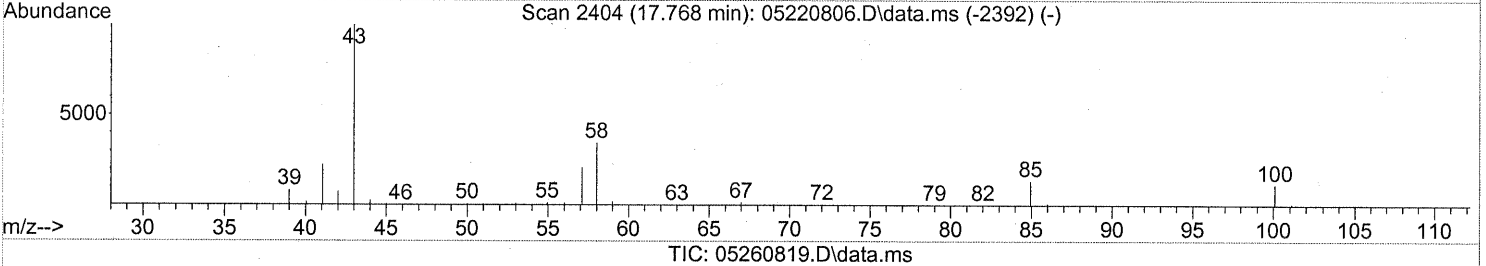
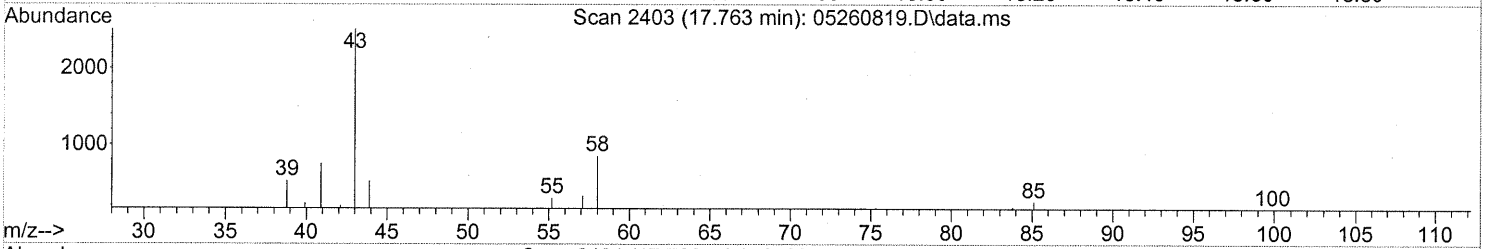
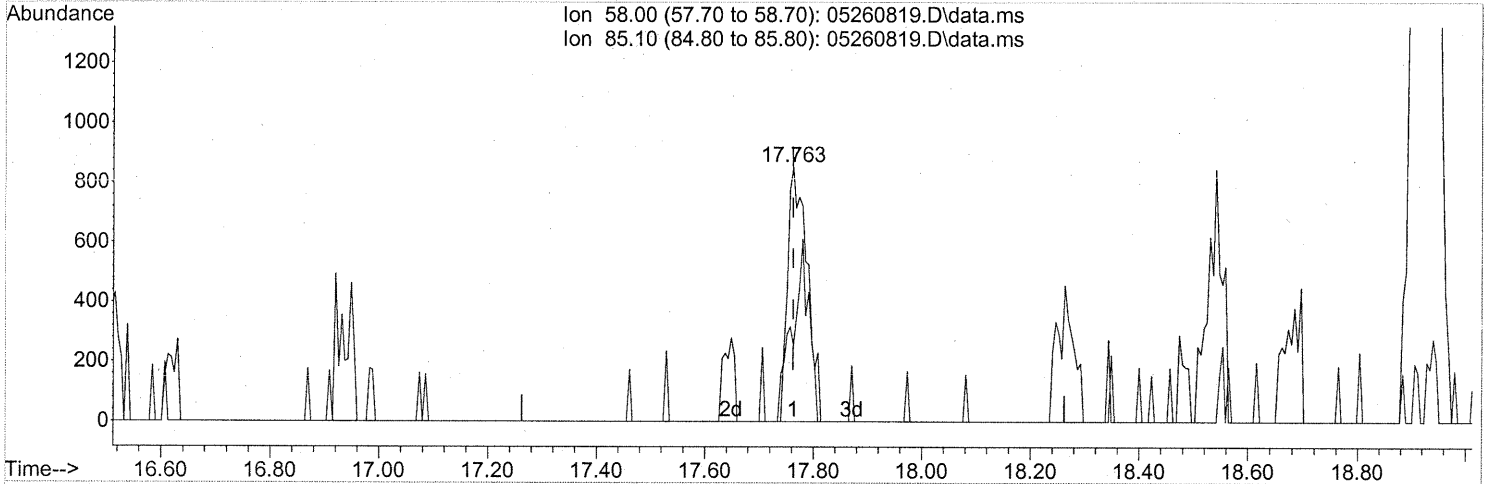
response 11205

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	113.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260819.D
Acq On : 27 May 2008 00:03
Operator : WA
Sample : P0801483-009 (500ml)
Misc : ENSR SG22B-05 (-3.2, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260819.D\data.ms

(53) 4-Methyl-2-pentanone (T)

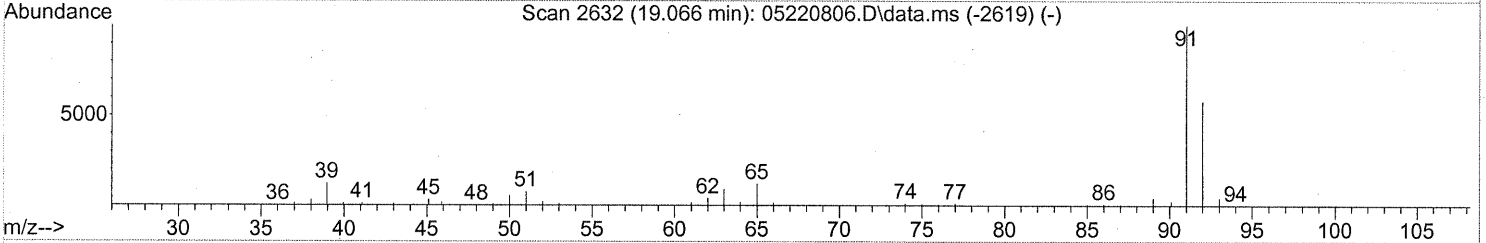
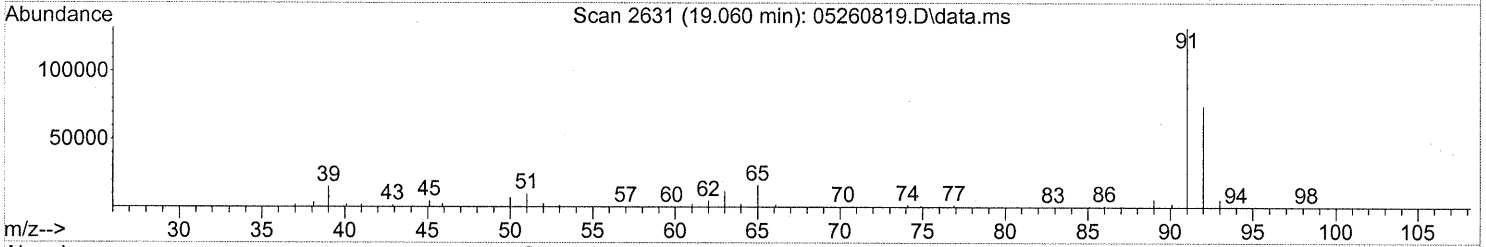
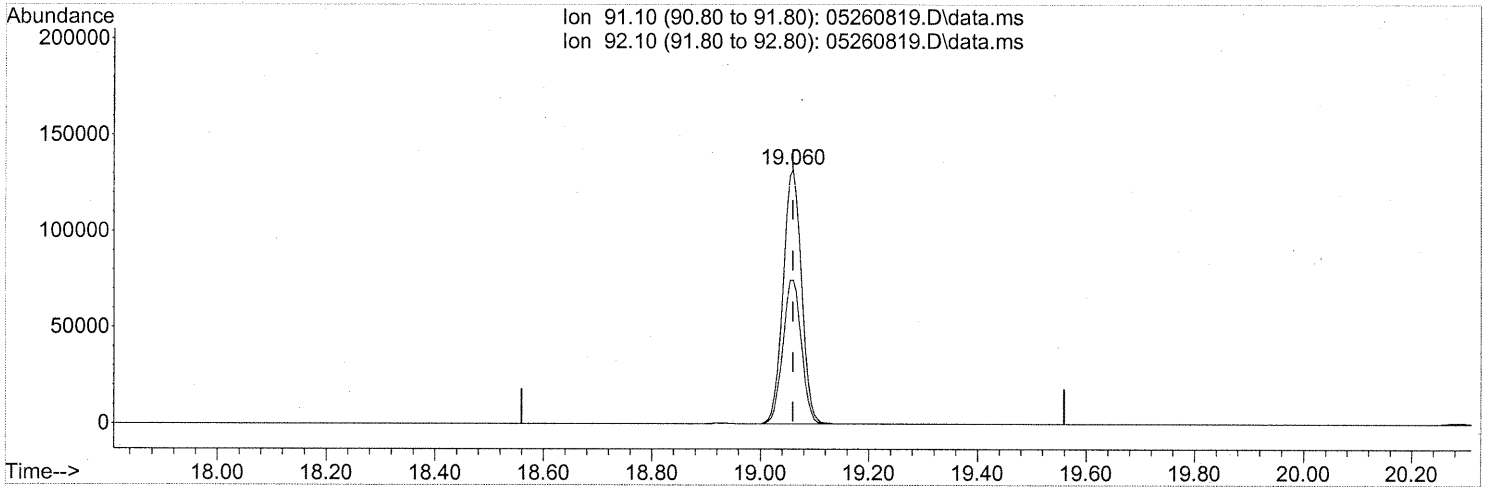
17.763min (+0.000) 0.08ng

response 2129

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	61.67#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260819.D\data.ms

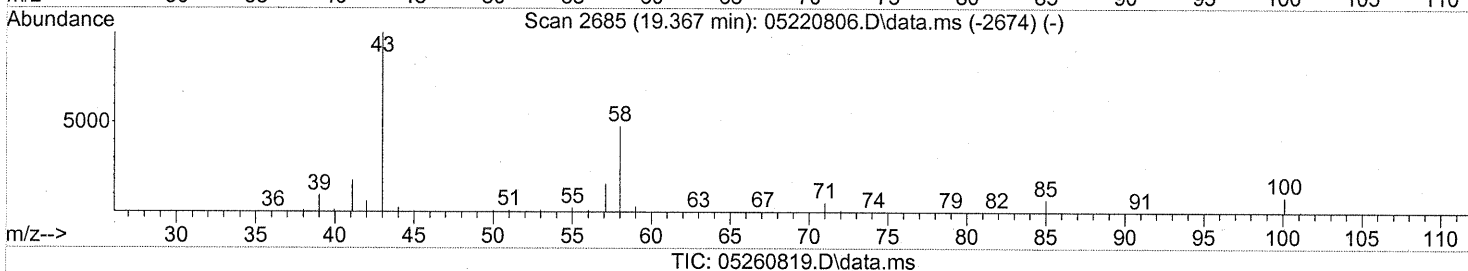
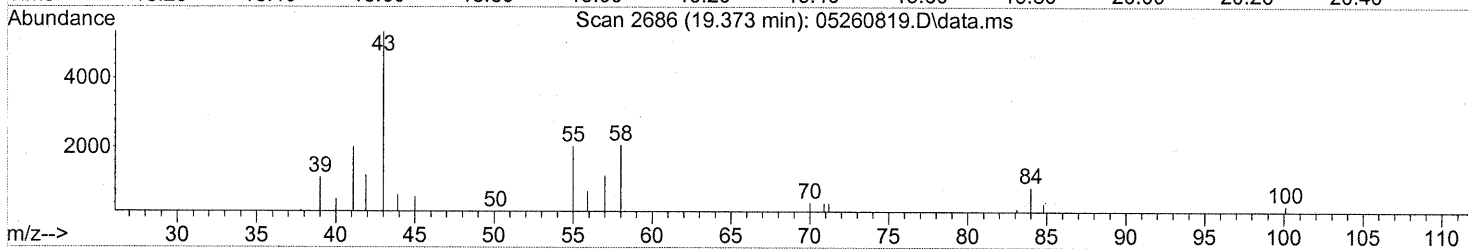
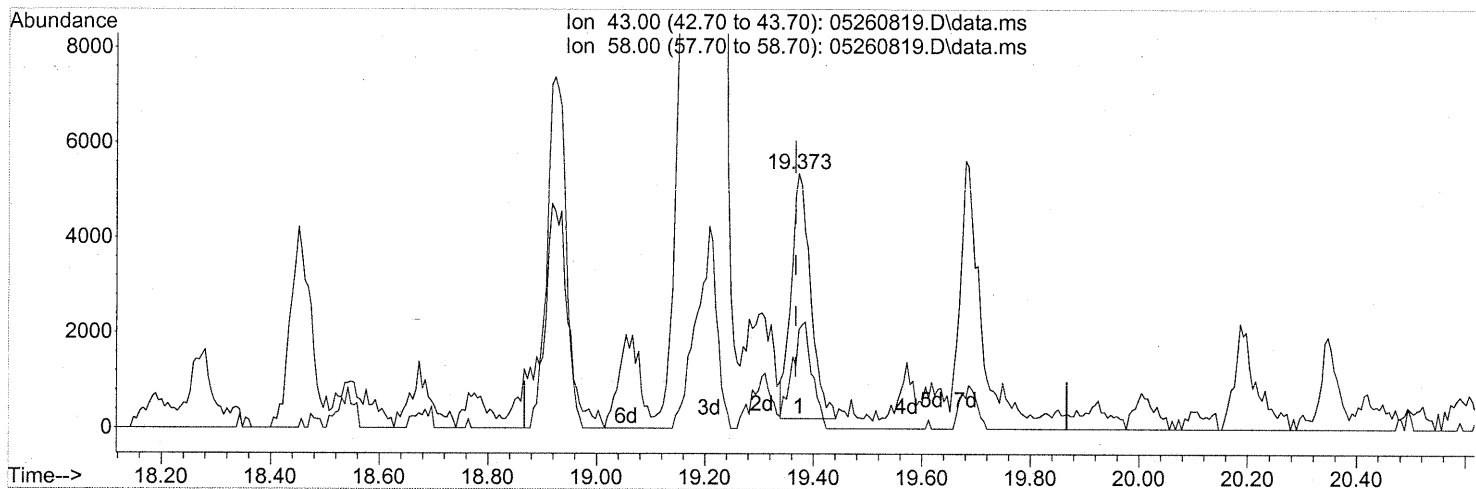
(58) Toluene (T)
 19.060min (+0.000) 2.81ng
 response 309221

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	56.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
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 Response via : Initial Calibration



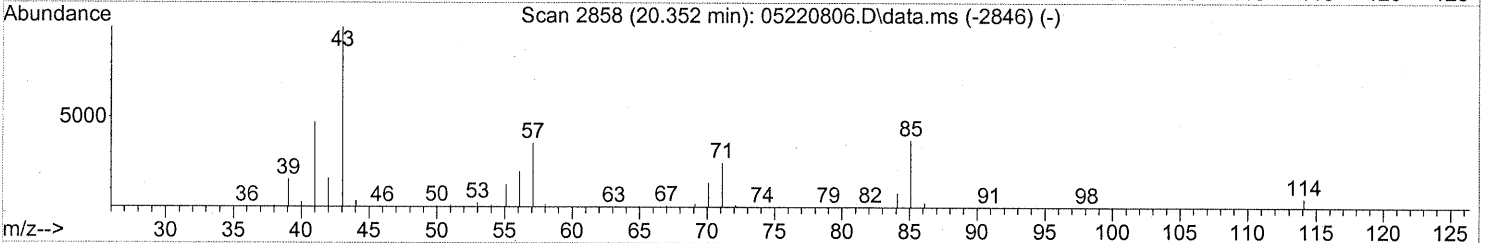
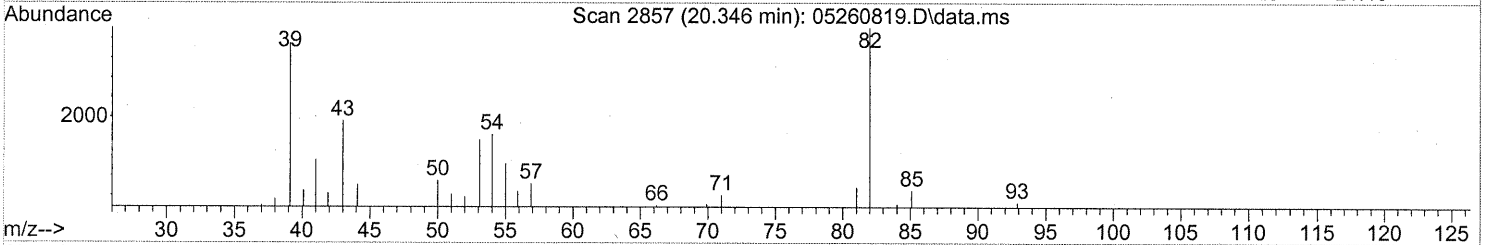
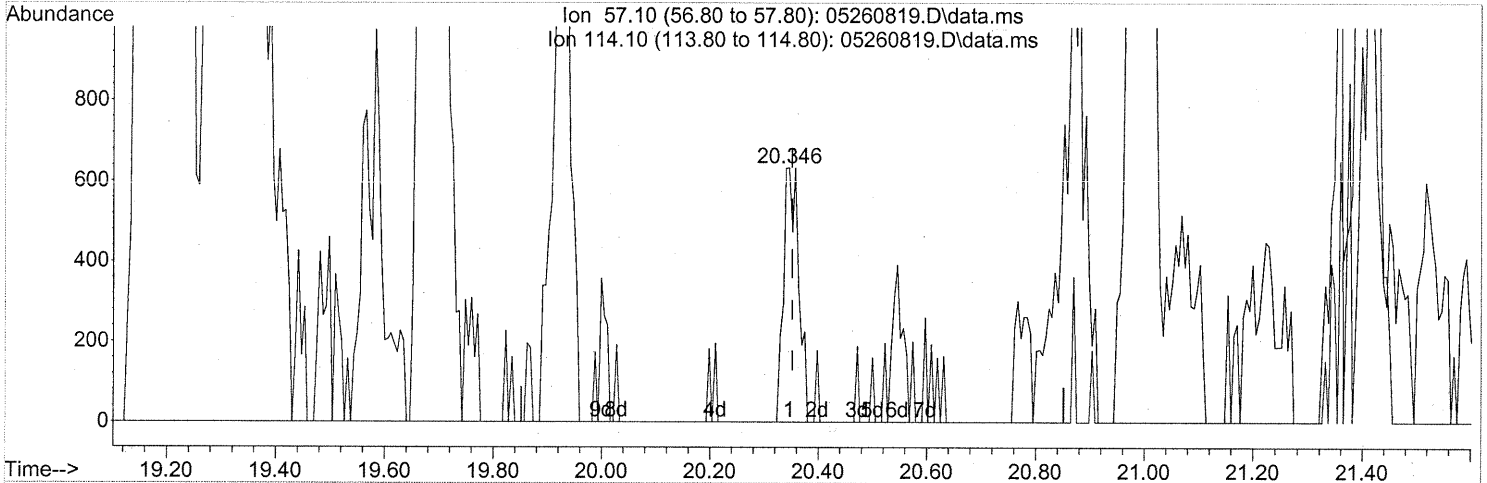
(59) 2-Hexanone (T)
 19.373min (+0.006) 0.17ng
 response 12825

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	44.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260819.D\data.ms

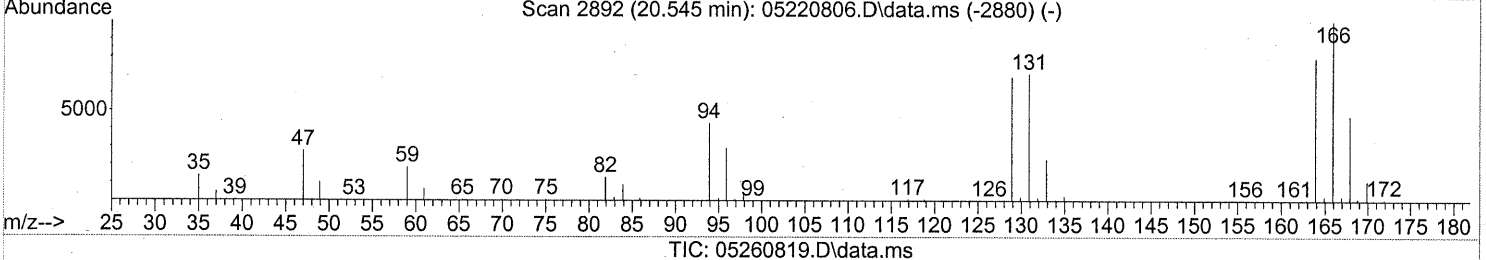
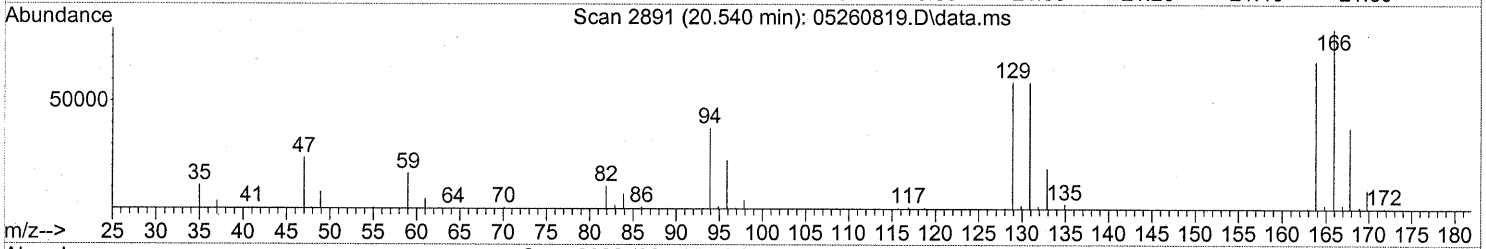
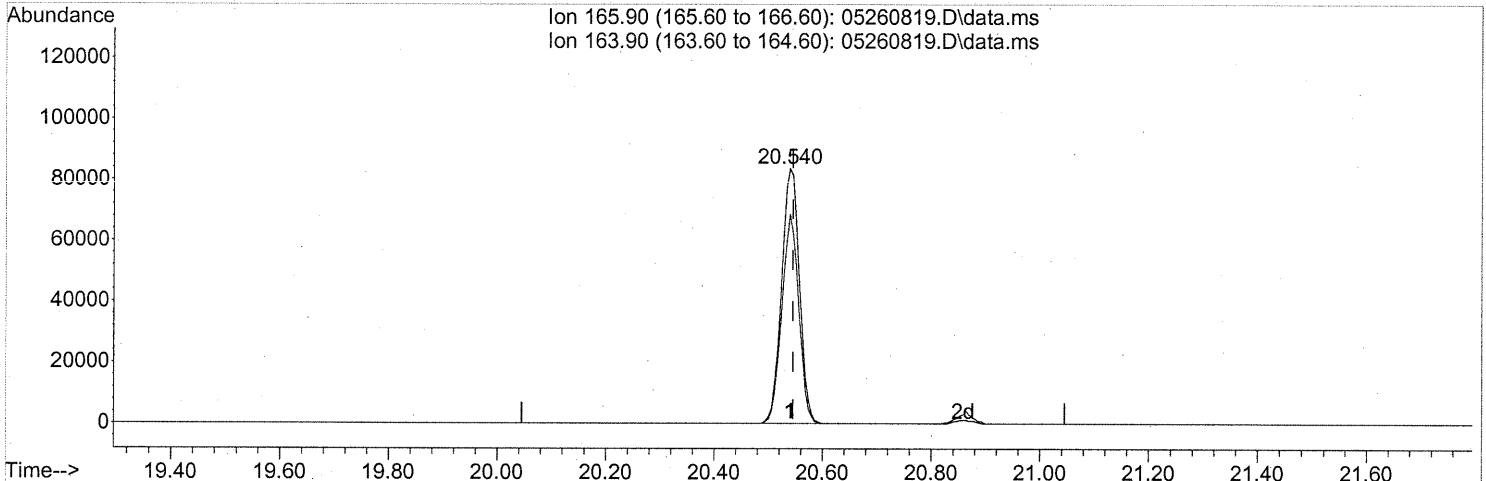
(63) n-Octane (T)
 20.346min (-0.006) 0.05ng
 response 1235

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 5.84ng

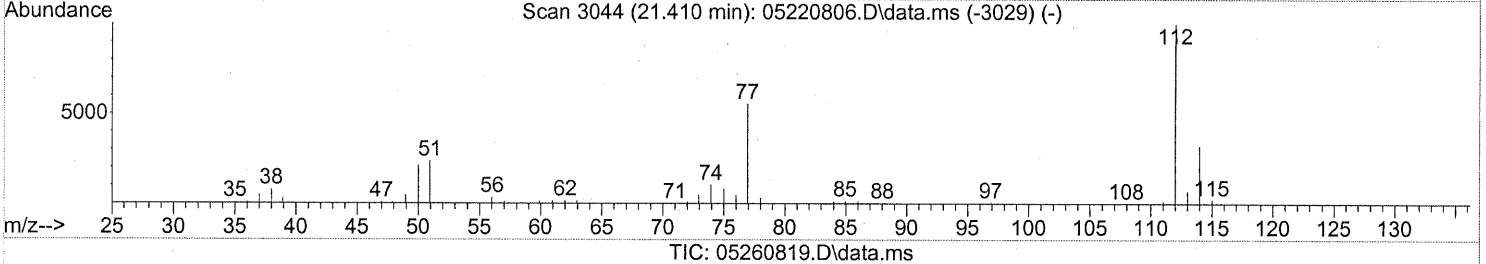
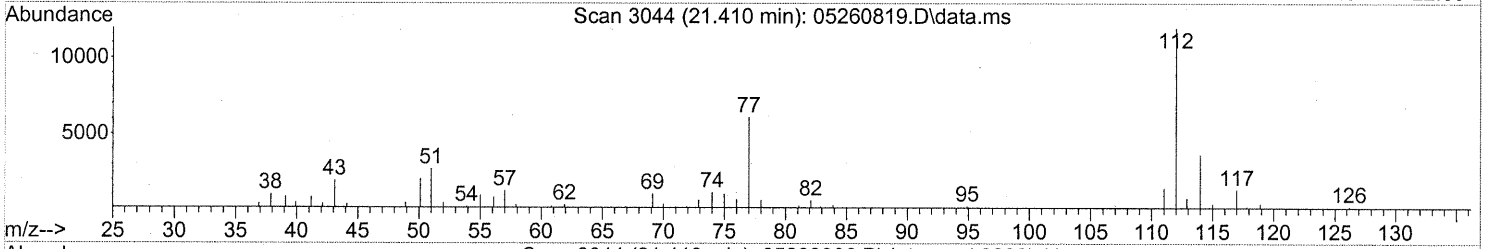
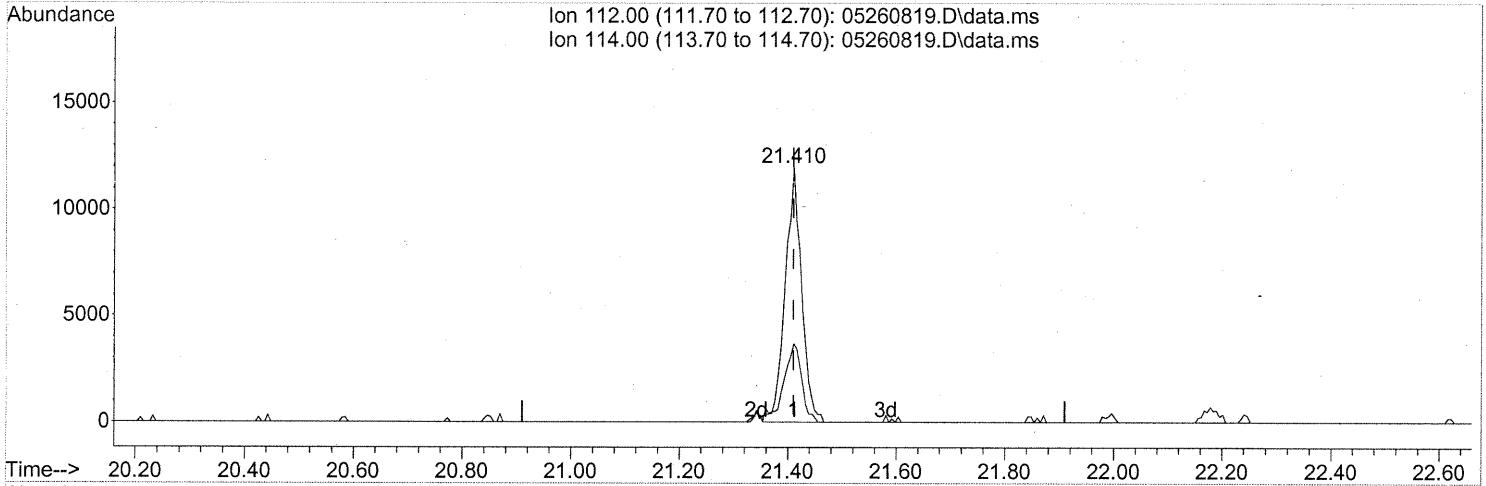
response 190136

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	77.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

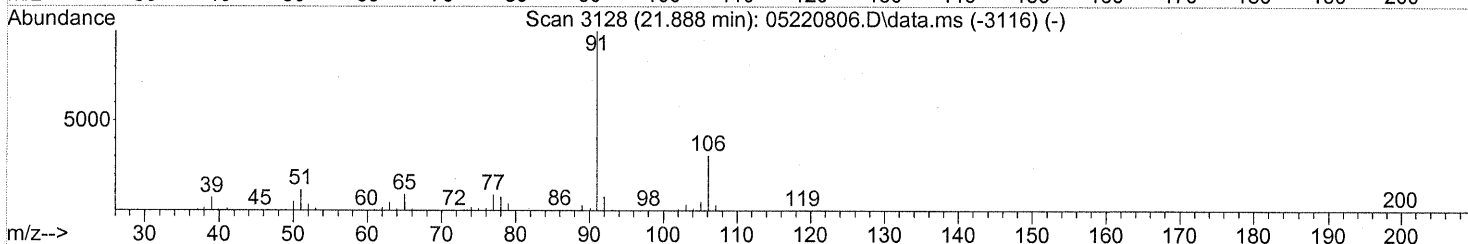
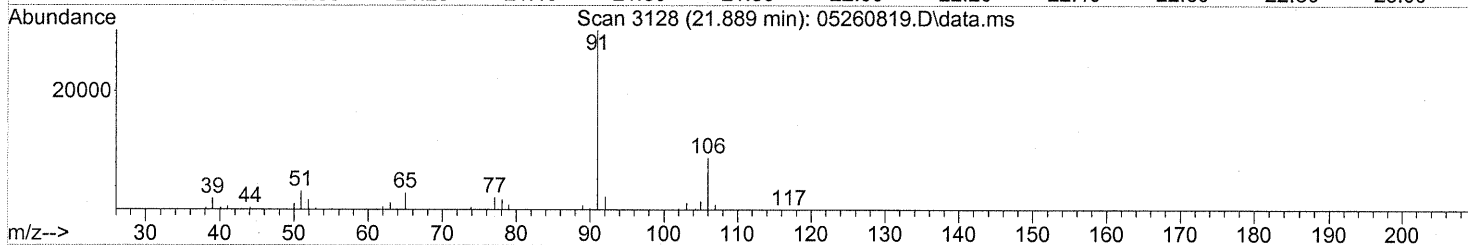
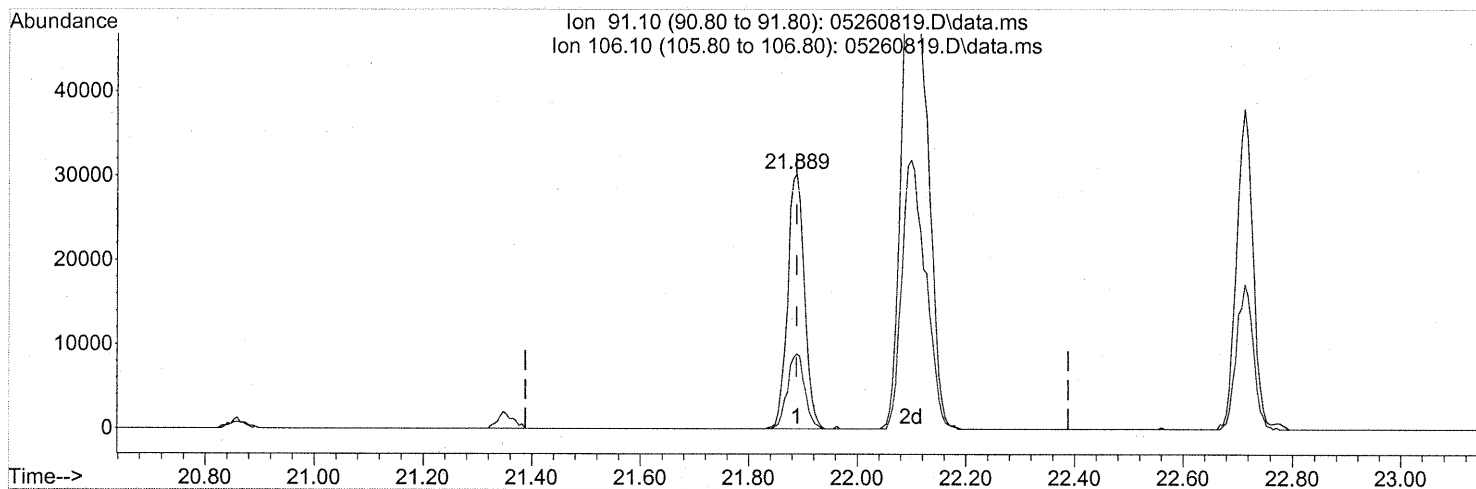


(65) Chlorobenzene (T)
 21.410min (+0.000) 0.34ng
 response 25249

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	31.44
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



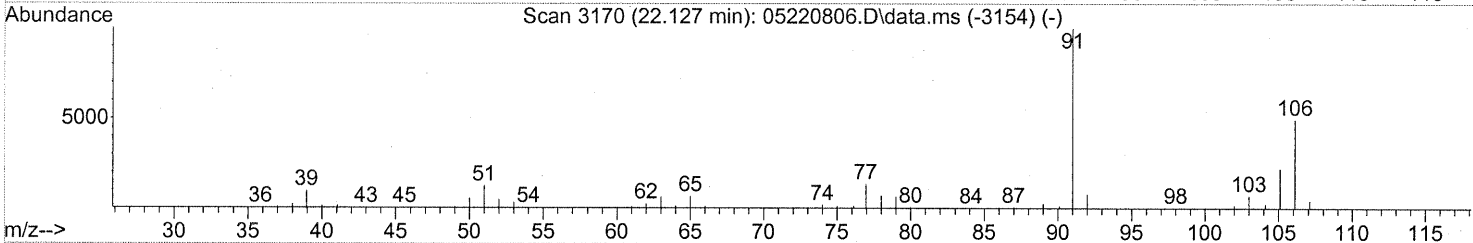
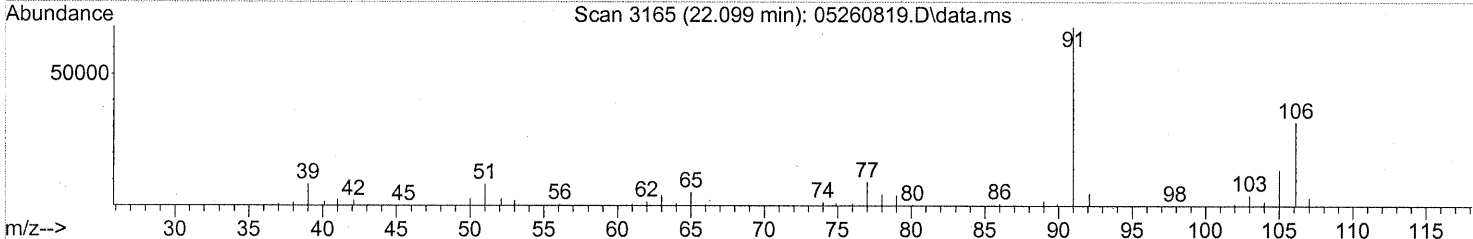
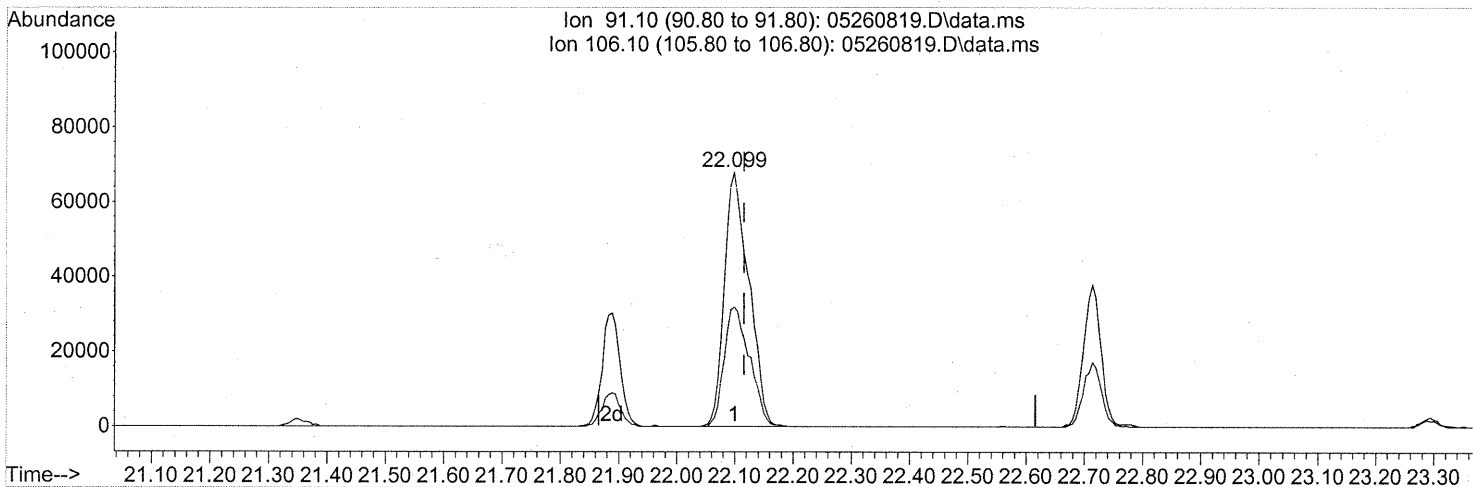
(66) Ethylbenzene (T)
 21.889min (+0.000) 0.52ng
 response 65054

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260819.D
Acq On : 27 May 2008 00:03
Operator : WA
Sample : P0801483-009 (500ml)
Misc : ENSR SG22B-05 (-3.2, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



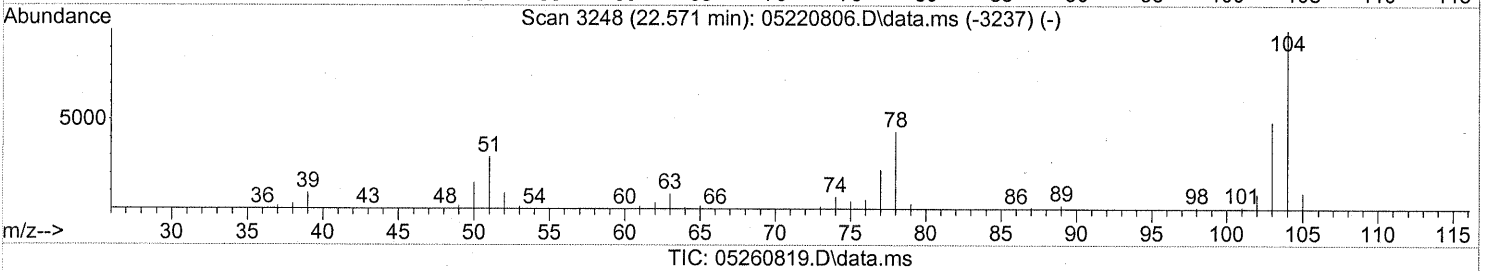
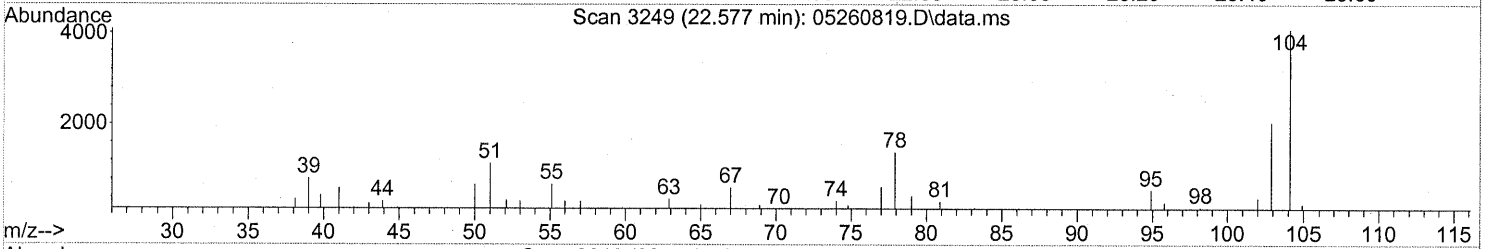
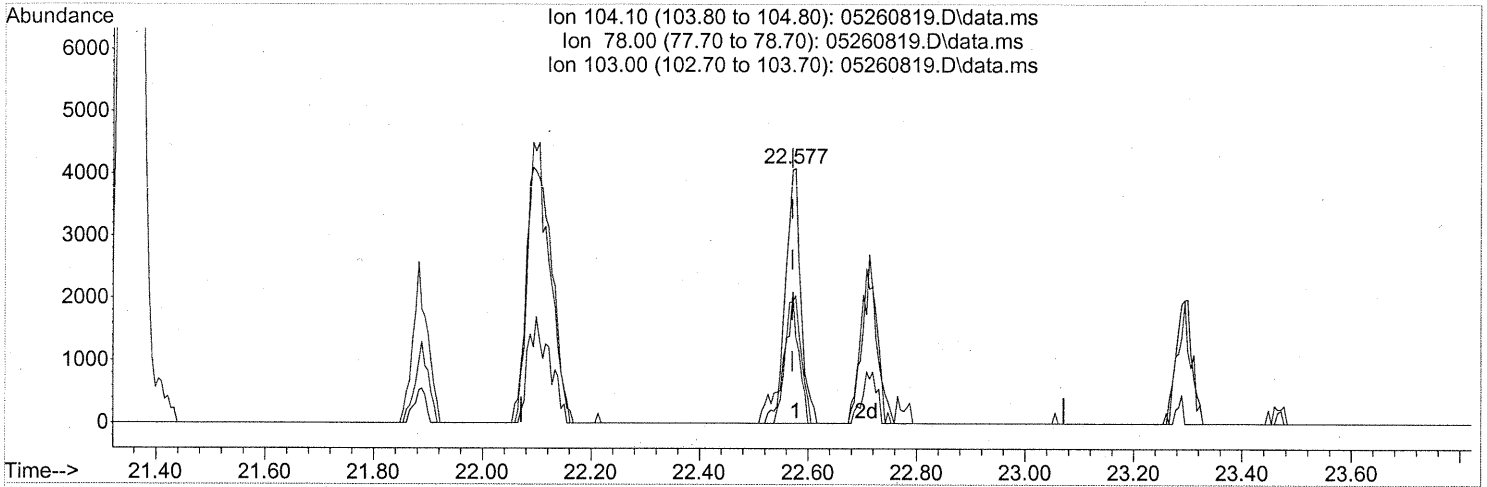
TIC: 05260819.D\data.ms

(67) m- & p-Xylene (T)
22.099min (-0.017) 2.35ng
response 198020

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.82
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(69) Styrene (T)

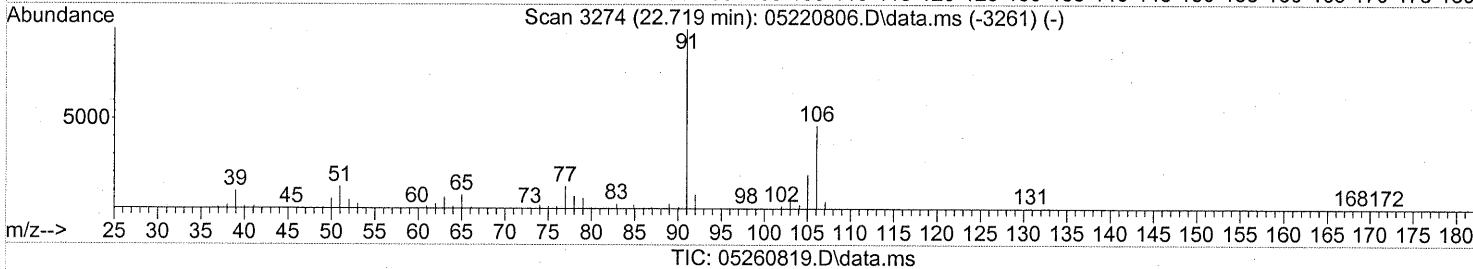
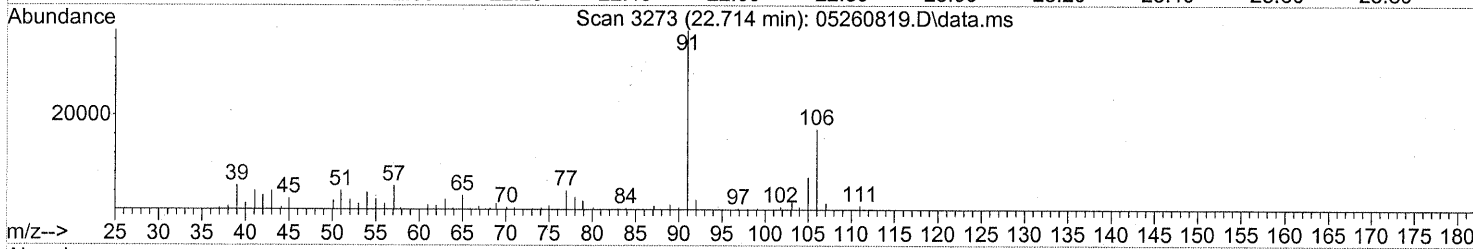
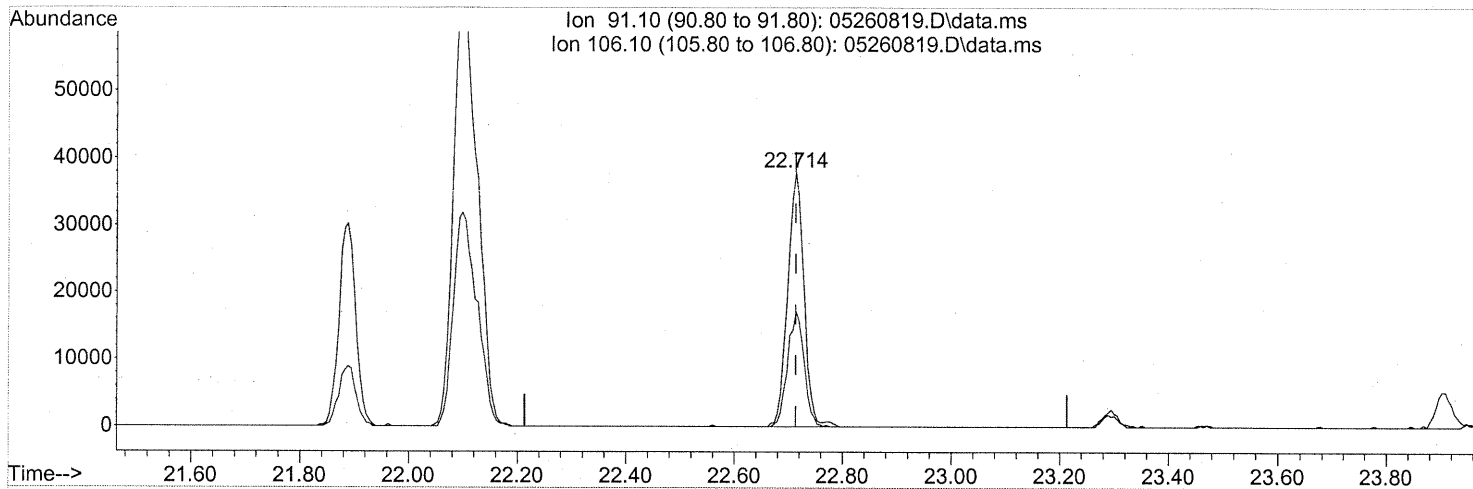
22.577min (+0.006) 0.11ng

response 7984

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	42.40
103.00	47.10	61.89
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



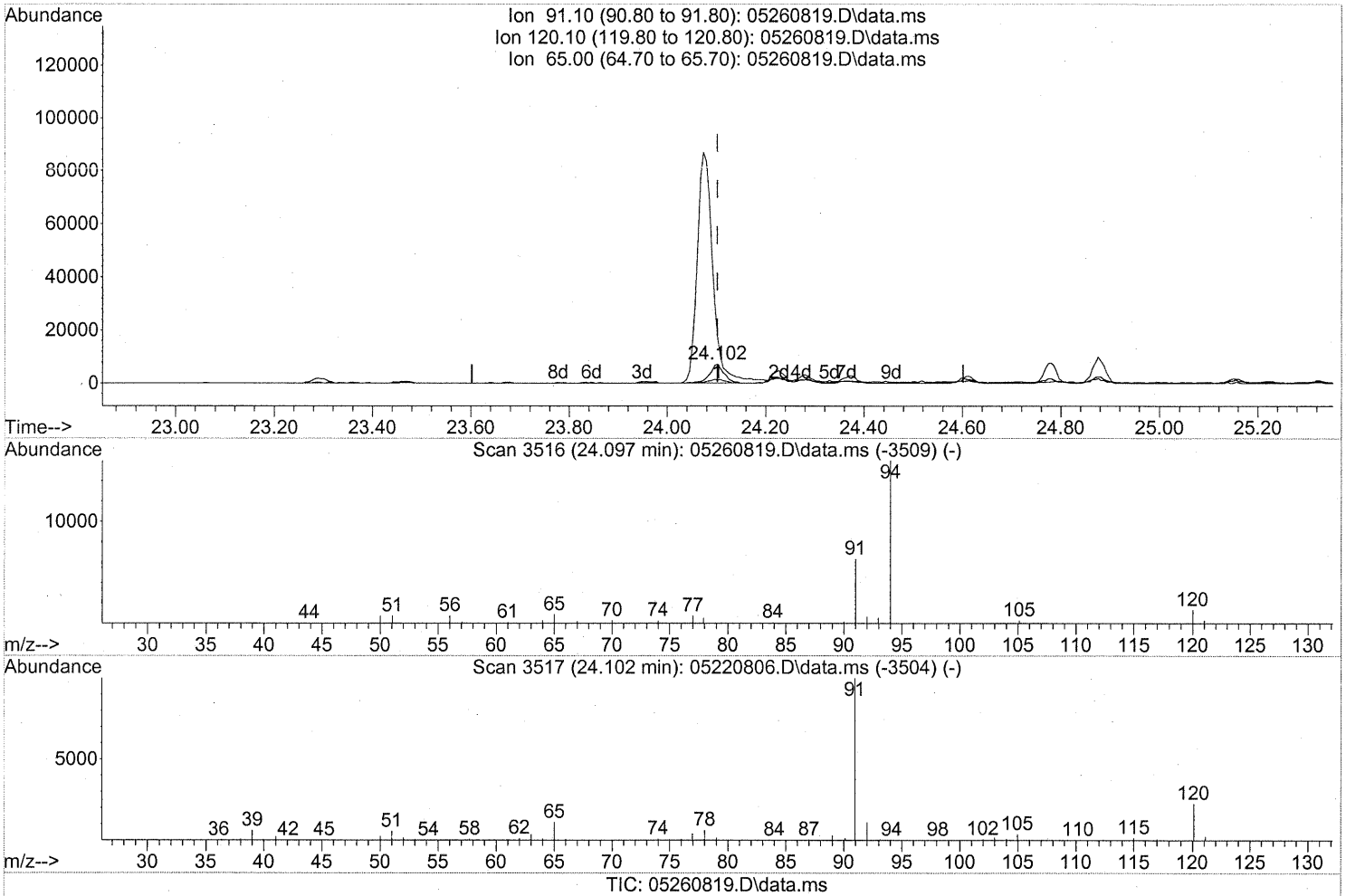
(70) o-Xylene (T)
 22.714min (+0.000) 0.88ng
 response 80115

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	45.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.102min (+0.000) 0.09ng

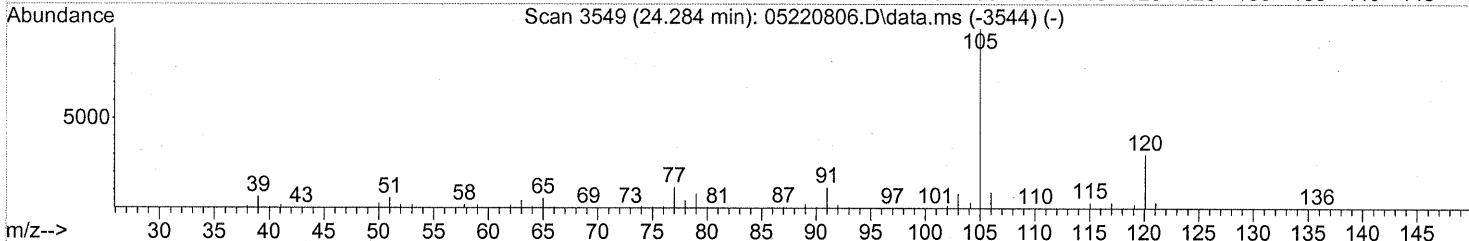
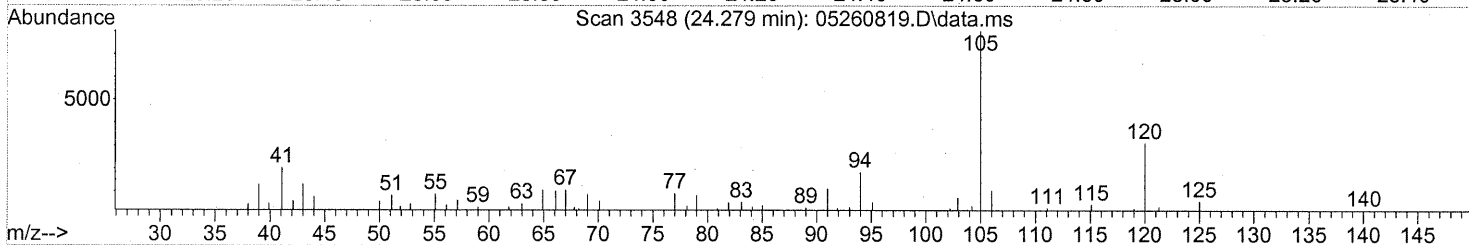
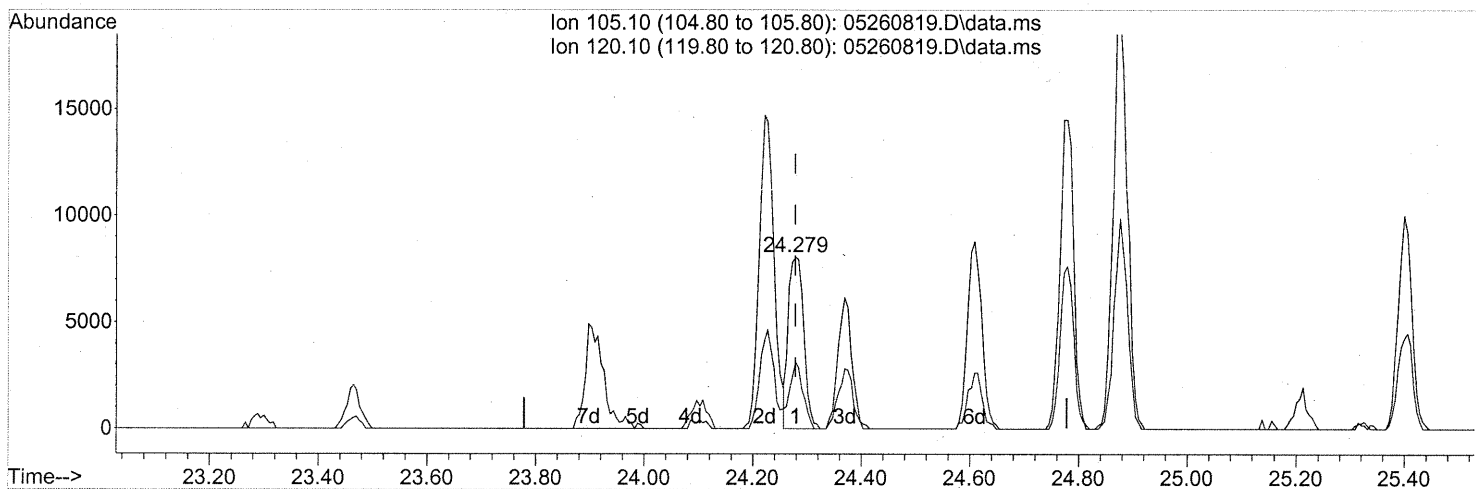
response 13927

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	19.19
65.00	11.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

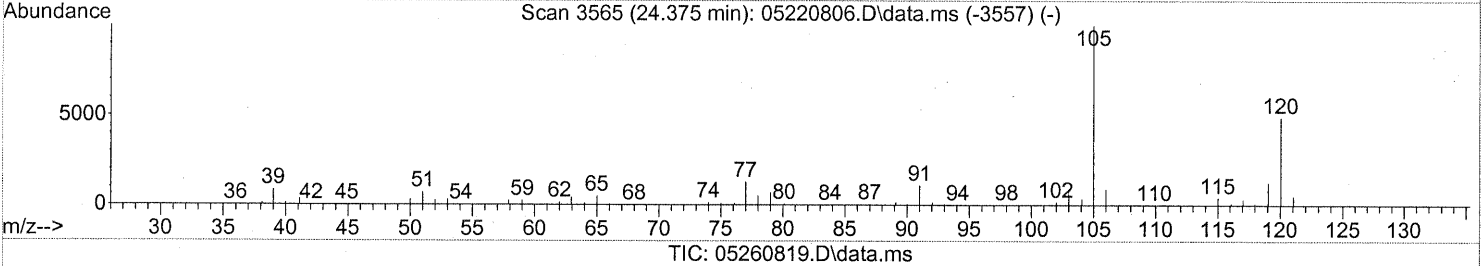
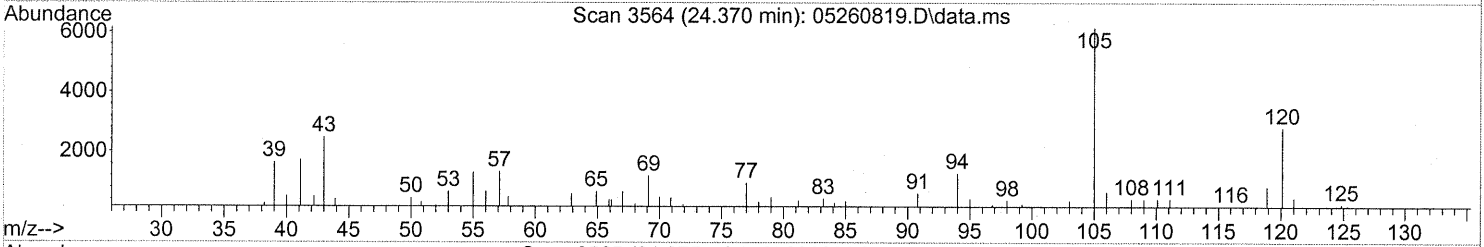
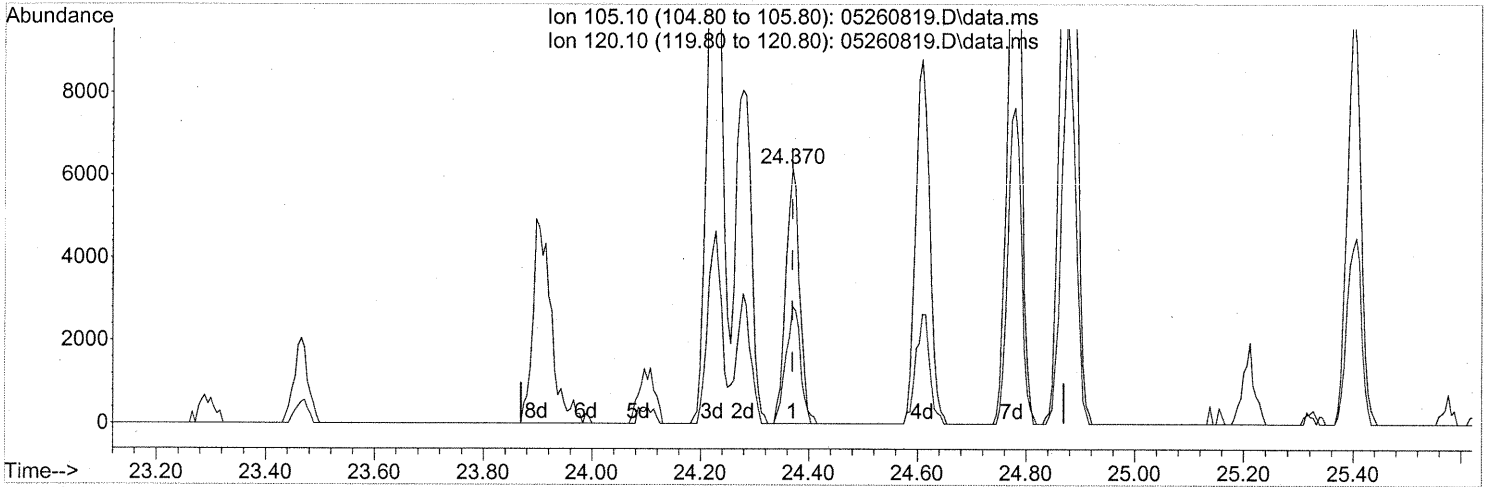


(78) 4-Ethyltoluene (T)
 24.279min (+0.000) 0.13ng
 response 15971

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	33.39
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.370min (+0.000) 0.10ng

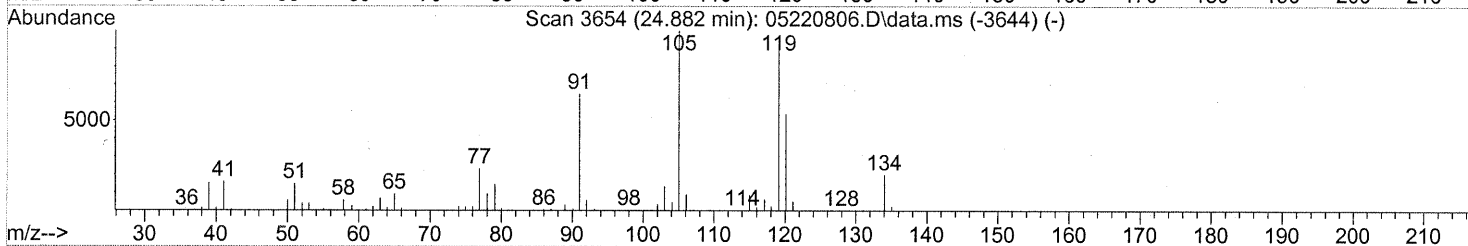
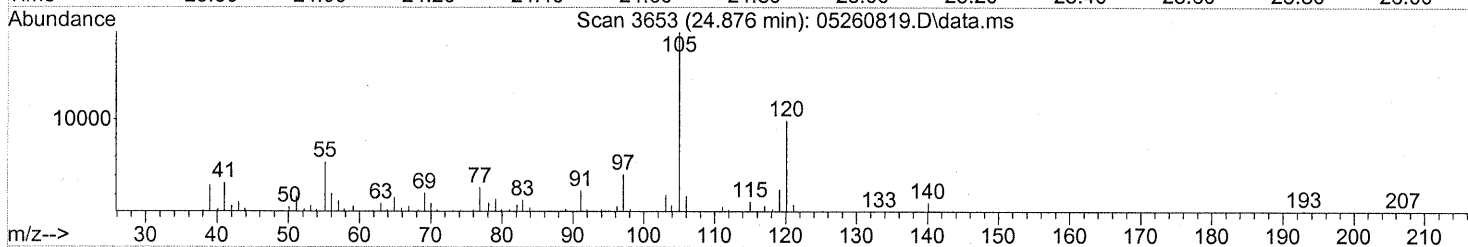
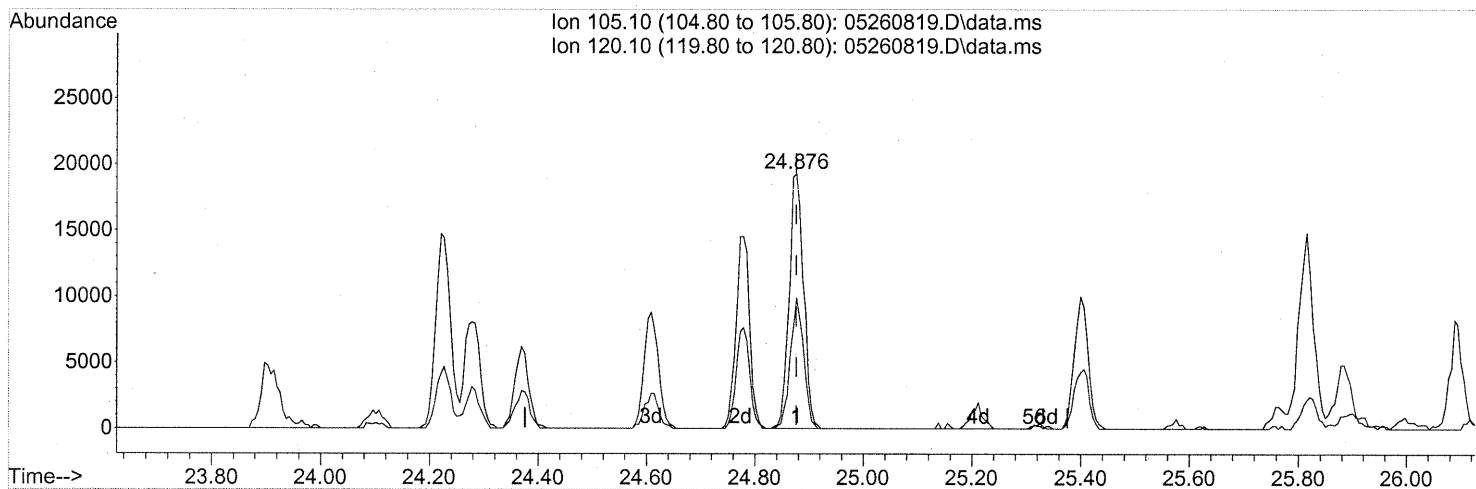
response 11047

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	47.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

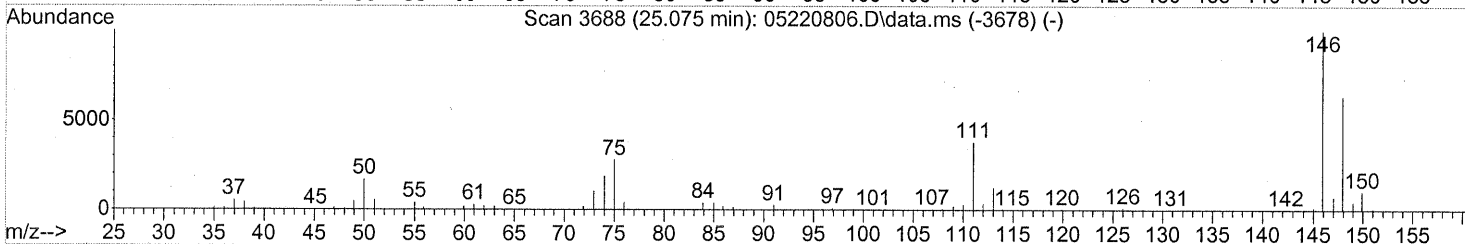
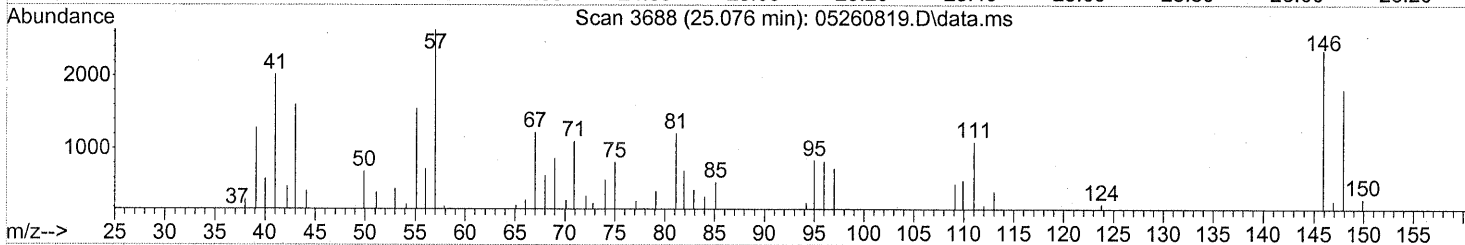
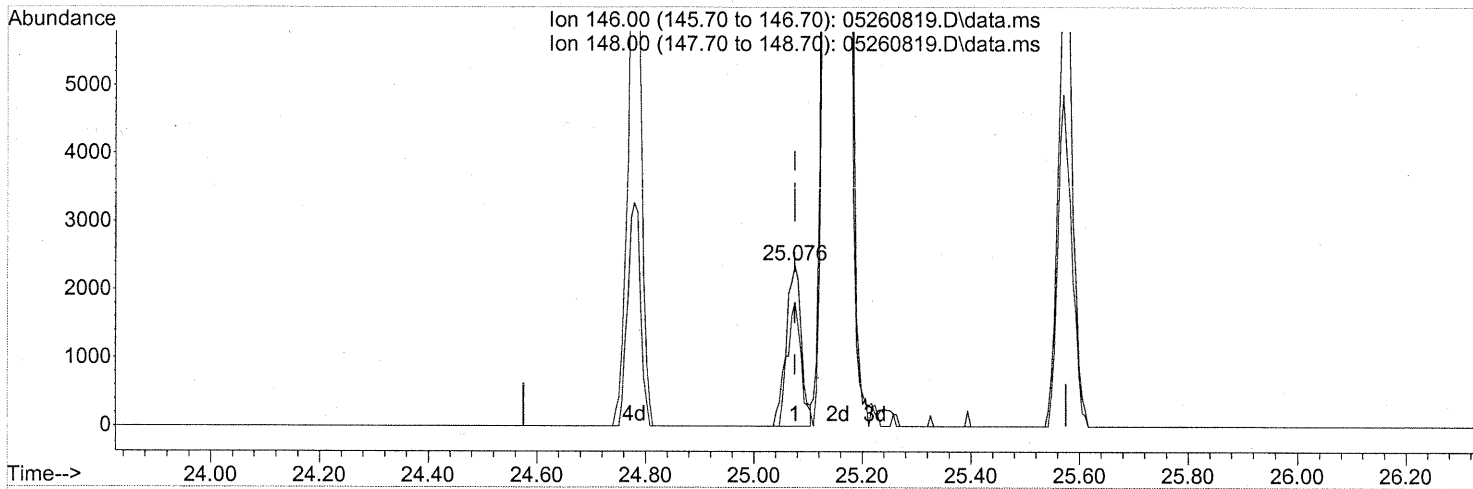
24.876min (+0.000) 0.32ng

response 35702

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	47.49
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.076min (+0.000) 0.07ng

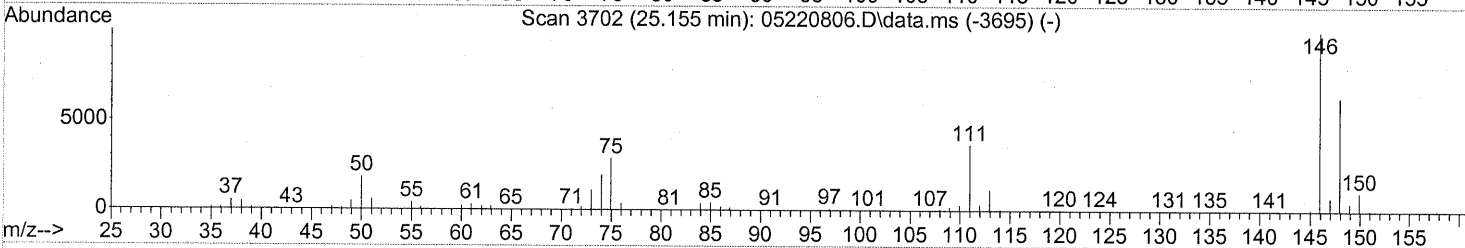
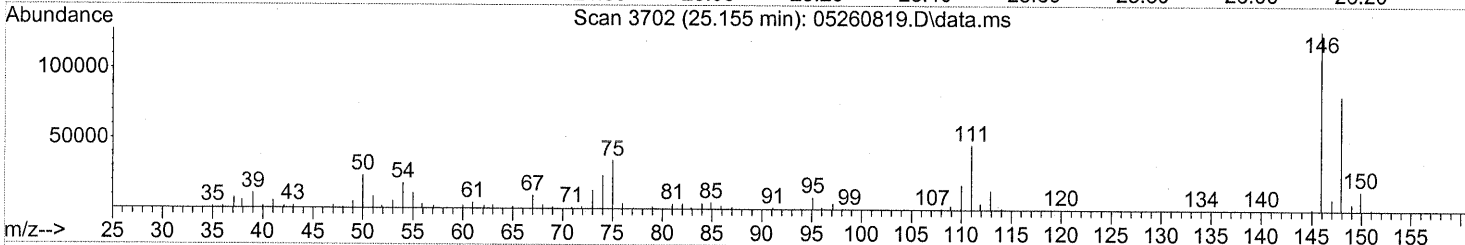
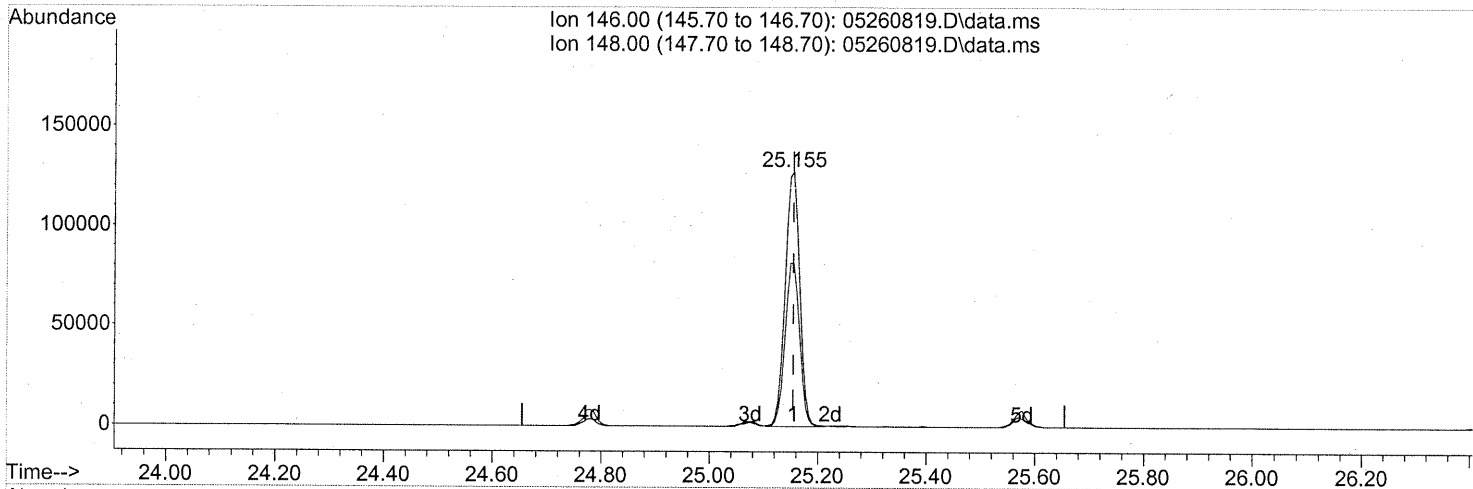
response 4604

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	68.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 3.54ng

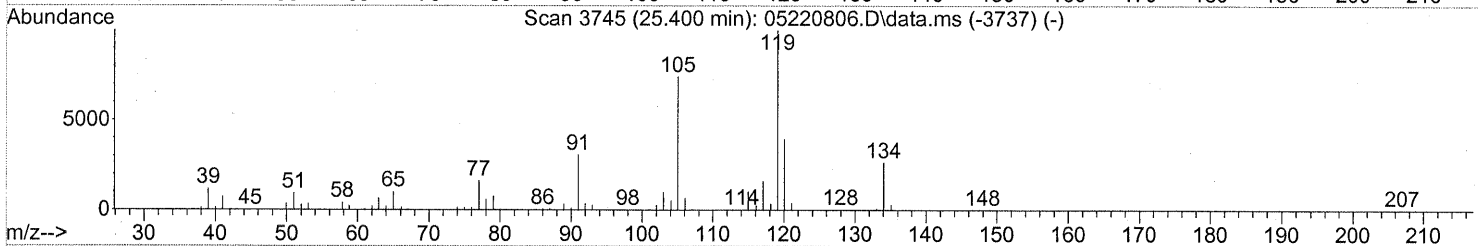
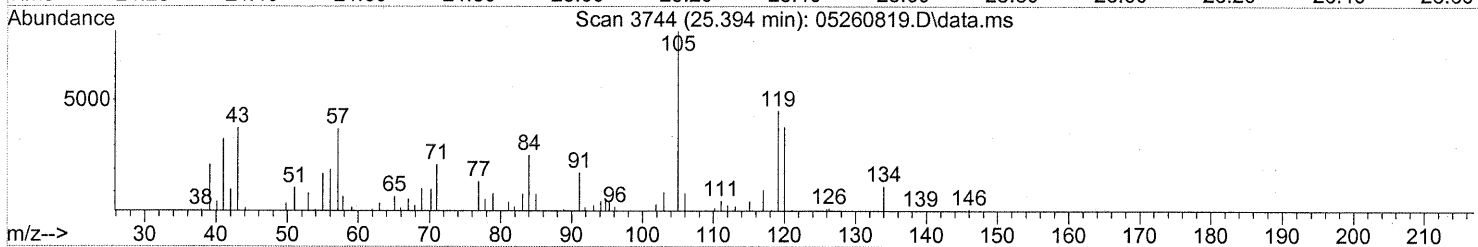
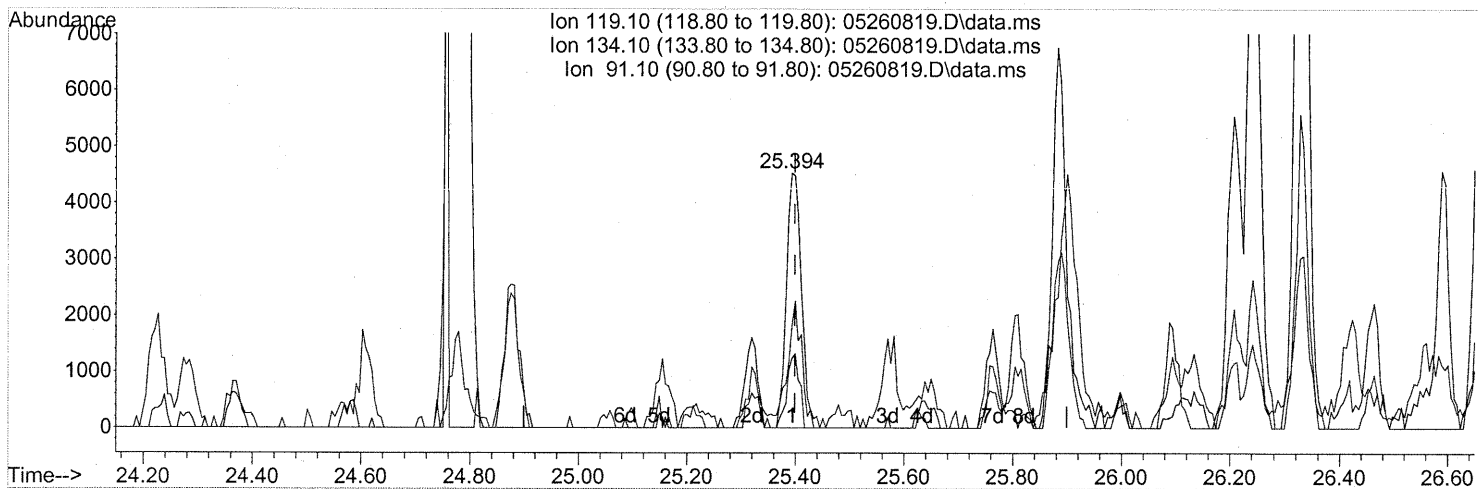
response 237279

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.07ng

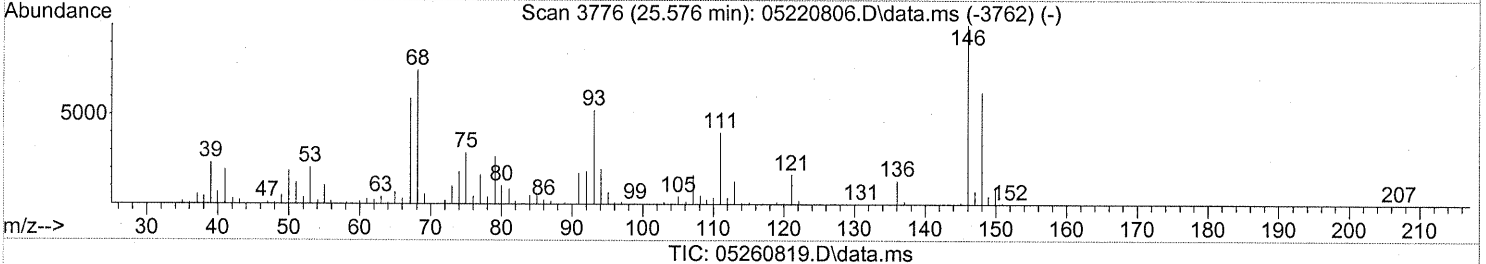
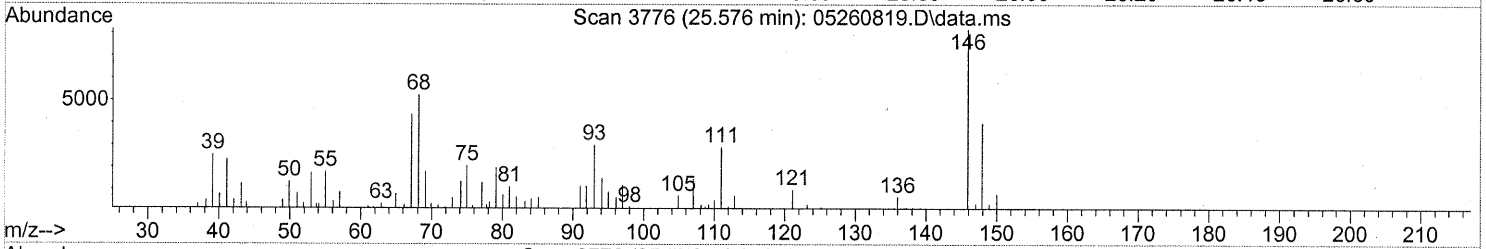
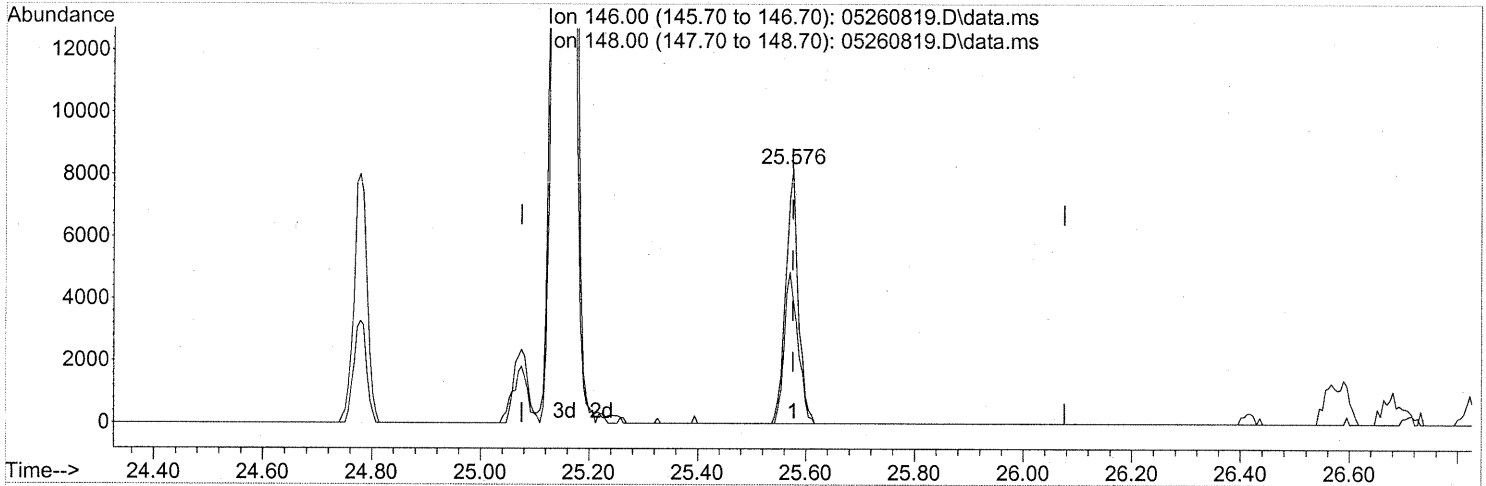
response 8567

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	24.27
91.10	27.10	48.51#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.576min (+0.000) 0.20ng

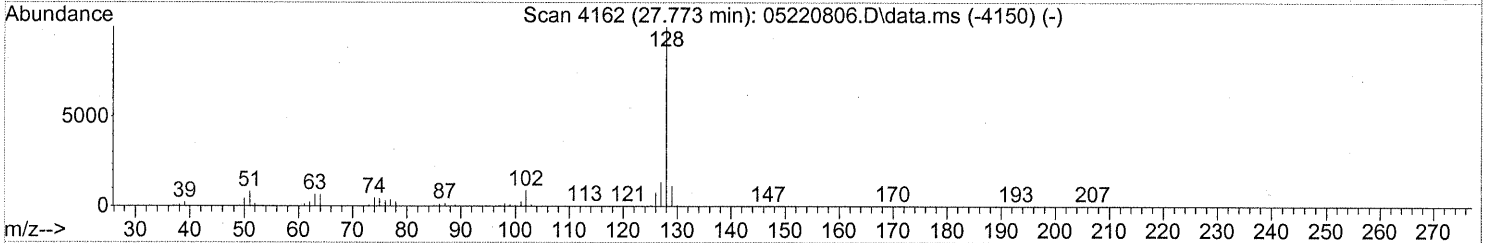
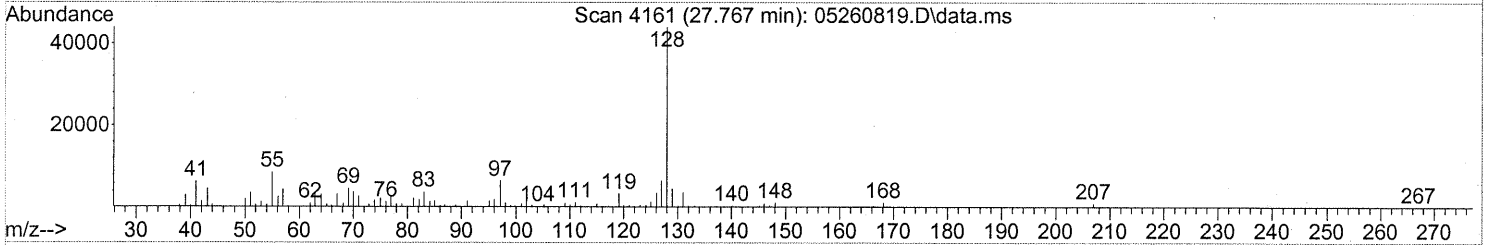
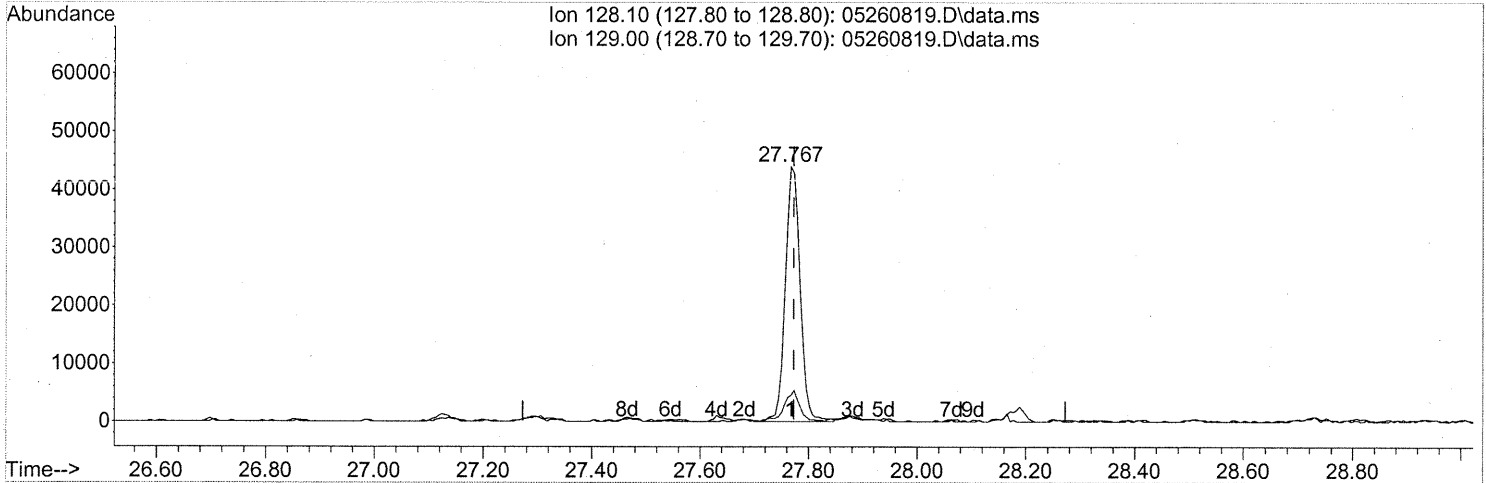
response 13228

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	64.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

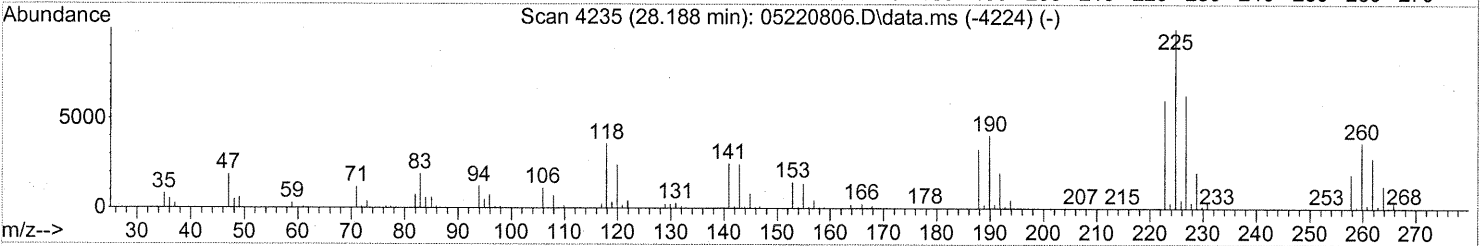
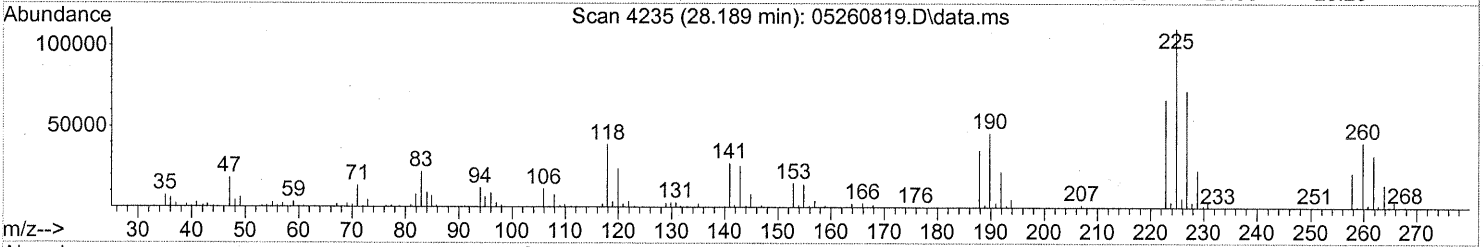
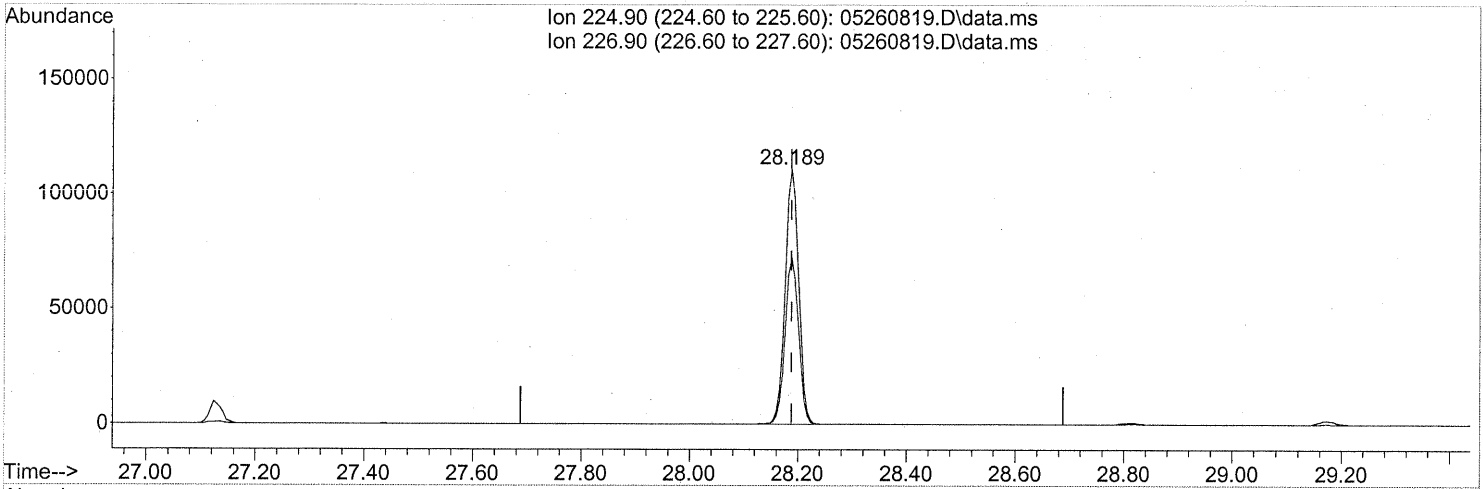


(95) Naphthalene (T)
 27.767min (-0.006) 0.57ng
 response 83220

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	12.77
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 27 06:13:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260819.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

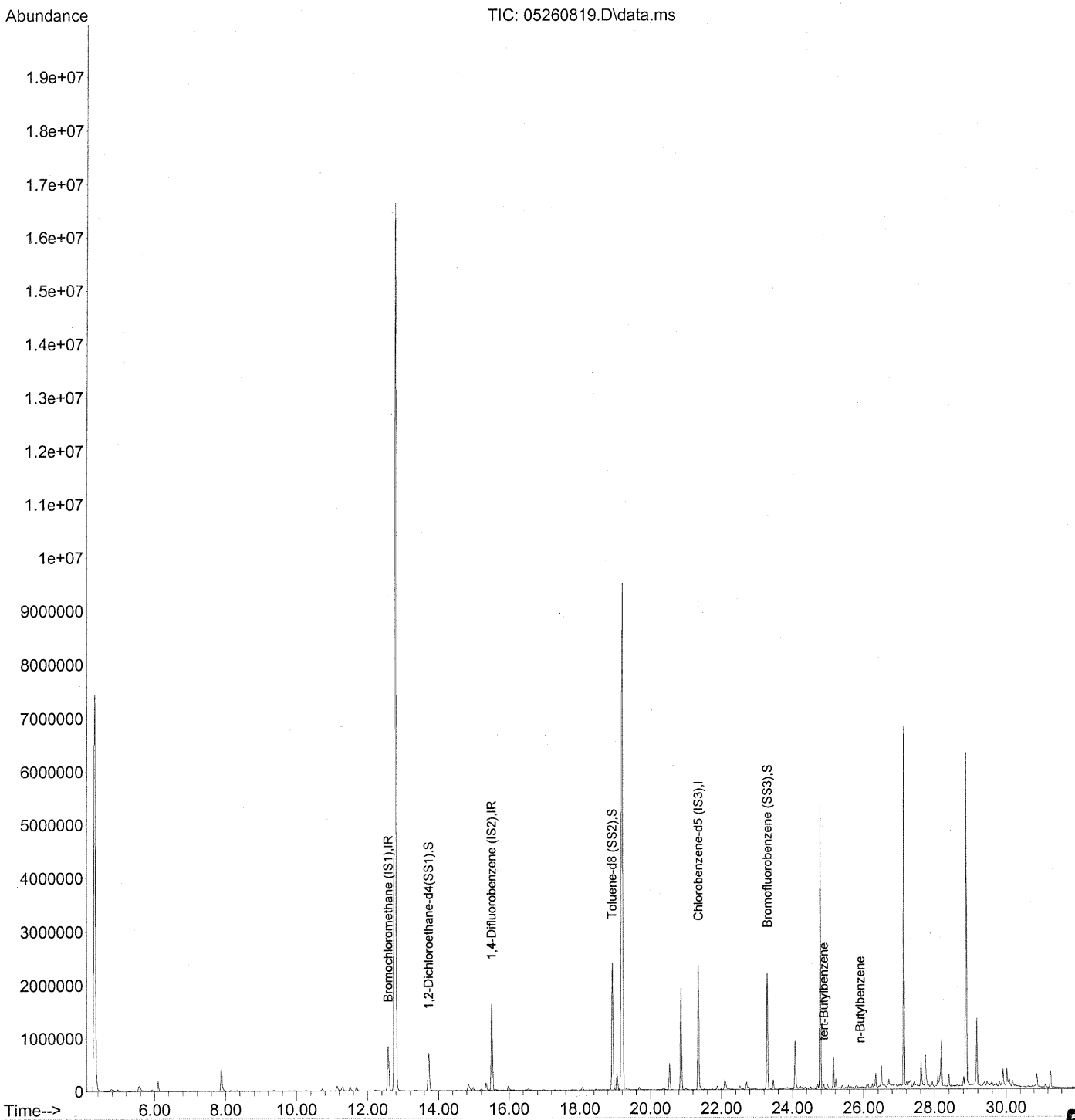
28.189min (+0.000) 5.96ng

response 190676

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	65.07
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 12:03 am
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 13:02:33 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 12:03 am
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

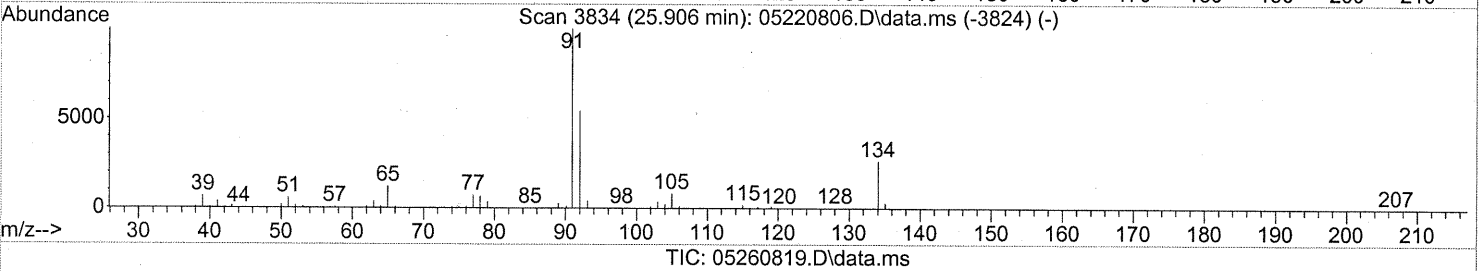
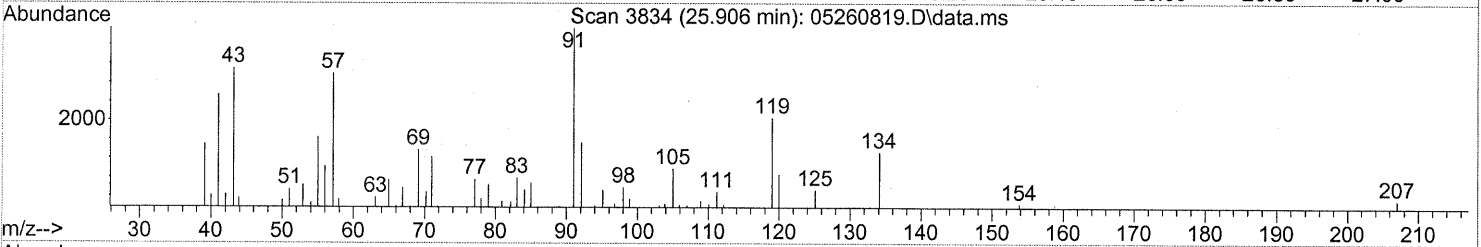
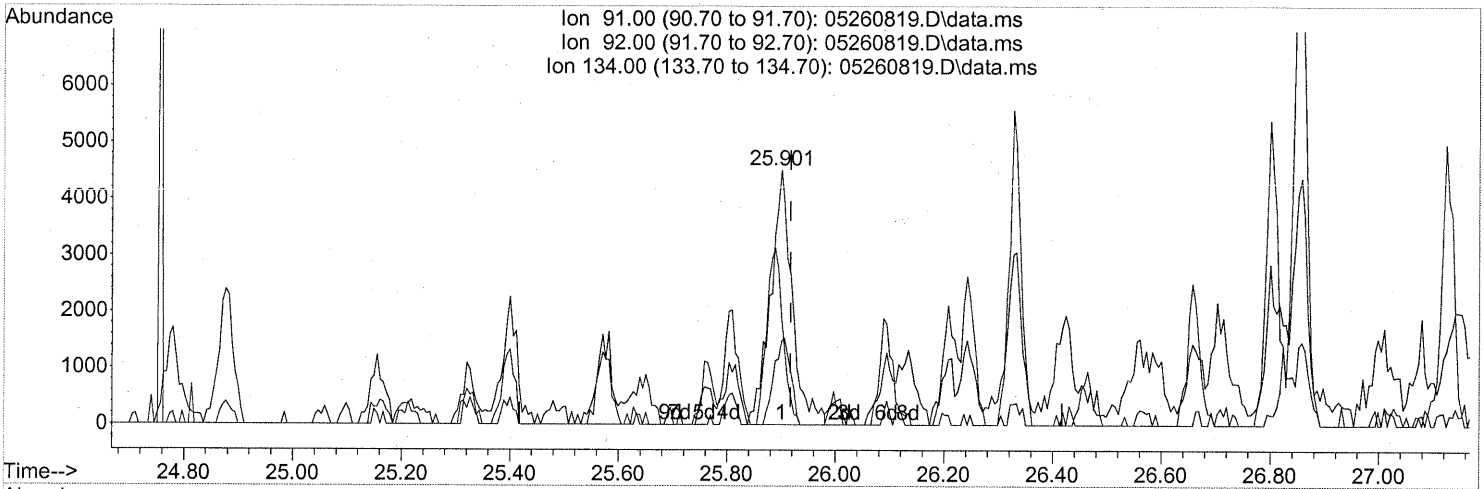
Quant Time: May 31 13:02:33 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	435098	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1879188	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	901484	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	722797	23.975	ng	-0.03
Spiked Amount	25.000		Recovery	=	95.92%	
5) Toluene-d8 (SS2)	18.92	98	1977933	24.430	ng	-0.02
Spiked Amount	25.000		Recovery	=	97.72%	
6) Bromofluorobenzene (SS3)	23.29	174	822478	24.982	ng	0.00
Spiked Amount	25.000		Recovery	=	99.92%	
Target Compounds						
7) tert-Butylbenzene	24.88	119	4879	0.046	ng #	54
8) n-Butylbenzene	25.90	91	12495	0.107	ng #	58

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

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260819.D
 Acq On : 27 May 2008 00:03
 Operator : WA
 Sample : P0801483-009 (500ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 13:02:33 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

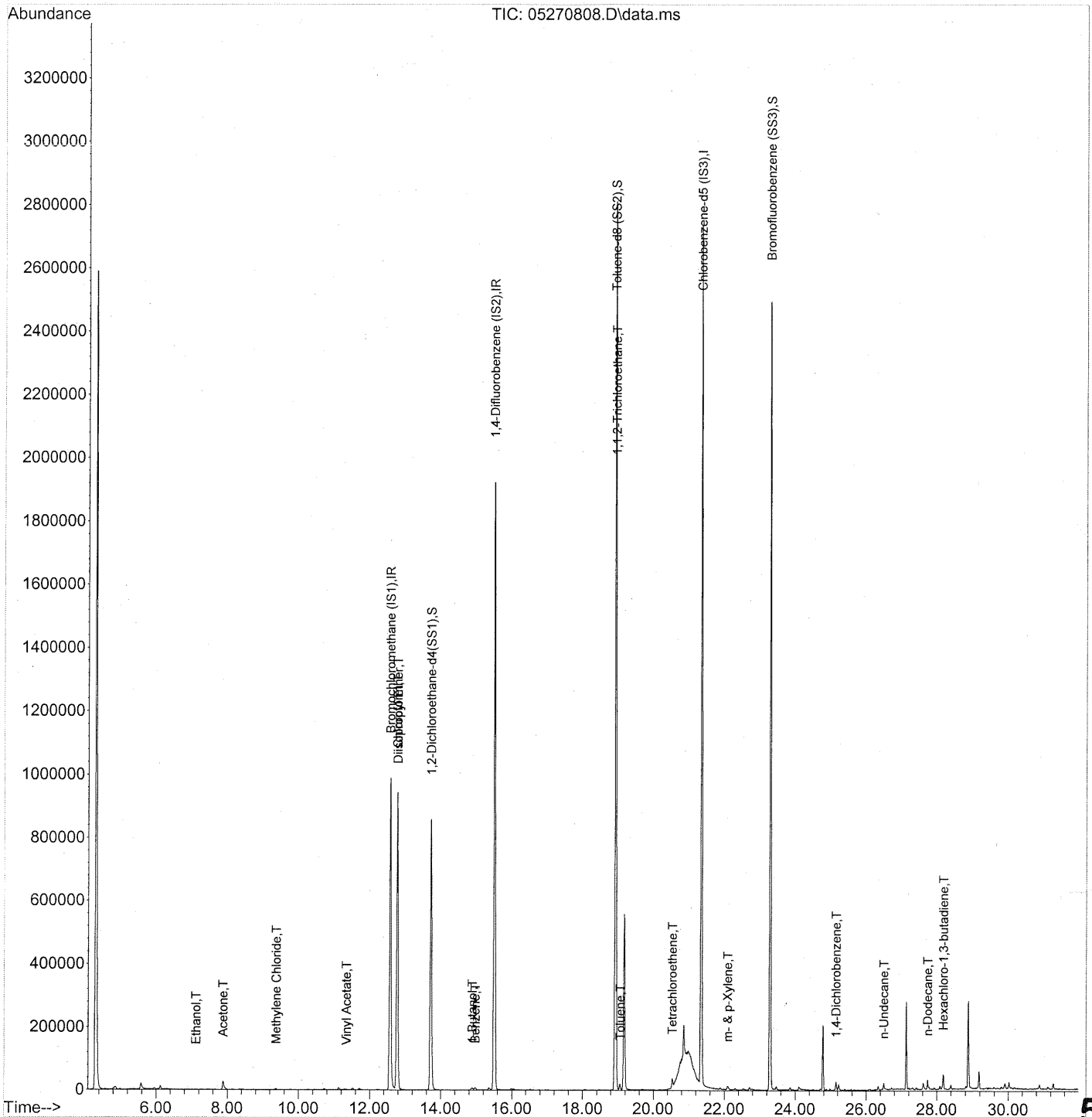


(8) n-Butylbenzene
 25.901min (-0.017) 0.11ng
 response 12495

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	26.20#
134.00	28.80	52.72#
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270808.D
Acq On : 27 May 2008 14:21
Operator : WA
Sample : P0801483-009 Dil (25ml)
Misc : ENSR SG22B-05 (-3.2, 3.5) ✓
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 28 04:11:40 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



504

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270808.D
 Acq On : 27 May 2008 14:21
 Operator : WA
 Sample : P0801483-009 Dil (25ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 28 04:11:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	524387	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2253280	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1058339	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	874700	24.073	ng	0.00
Spiked Amount	25.000		Recovery	=	96.28%	
57) Toluene-d8 (SS2)	18.92	98	2342318	24.643	ng	0.00
Spiked Amount	25.000		Recovery	=	98.56%	
73) Bromofluorobenzene (SS3)	23.29	174	954836	24.704	ng	0.00
Spiked Amount	25.000		Recovery	=	98.80%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	1572	N.D.		
3) Dichlorodifluoromethane	5.00	85	2701	N.D.		
4) Chloromethane	5.33	50	178	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.93	54	59	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	2202	0.080	ng	# 65
11) Acetonitrile	7.41	41	177	N.D.		
12) Acrolein	7.67	56	633	N.D.		
13) Acetone	7.88	58	16041	0.568	ng	87
14) Trichlorofluoromethane	8.16	101	1039	N.D.		
15) Isopropanol	8.30	45	111	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.18	96	198	N.D.		
18) tert-Butanol	9.31	59	929	N.D.		
19) Methylene Chloride	9.37	84	1674	0.053	ng	93
20) Allyl Chloride	9.45	41	65	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.77	76	2352	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.34	86	457	0.088	ng	# 1
27) 2-Butanone	11.71	72	859	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	99542	3.943	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

505

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270808.D
 Acq On : 27 May 2008 14:21
 Operator : WA
 Sample : P0801483-009 Dil (25ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 28 04:11:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	998870	20.889 ng		99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.76	62	168	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	7018	0.227 ng		98
41) Benzene	14.98	78	8002	0.068 ng		87
42) Carbon Tetrachloride	15.21	117	1085	N.D.		
43) Cyclohexane	15.41	84	55	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.45	83	150	N.D.		
47) Trichloroethene	16.53	130	920	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	406	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	205055	7.033 ng	#	8
58) Toluene	19.07	91	17946	0.139 ng		94
59) 2-Hexanone	19.39	43	826	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.15	43	67	N.D.		
63) n-Octane	20.56	57	126	N.D.		
64) Tetrachloroethene	20.54	166	10498	0.275 ng		100
65) Chlorobenzene	21.40	112	2129	N.D.		
66) Ethylbenzene	21.89	91	3825	N.D.		
67) m- & p-Xylene	22.10	91	12246	0.124 ng		87
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.58	104	609	N.D.		
70) o-Xylene	22.72	91	4837	N.D.		
71) n-Nonane	22.96	43	938	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.63	83	97	N.D.		
74) Cumene	23.45	105	120	N.D.		
75) alpha-Pinene	23.96	93	135	N.D.		
76) n-Propylbenzene	24.11	91	871	N.D.		
77) 3-Ethyltoluene	24.23	105	2003	N.D.		
78) 4-Ethyltoluene	24.28	105	997	N.D.		
79) 1,3,5-Trimethylbenzene	24.36	105	582	N.D.		

506

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270808.D
 Acq On : 27 May 2008 14:21
 Operator : WA
 Sample : P0801483-009 Dil (25ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

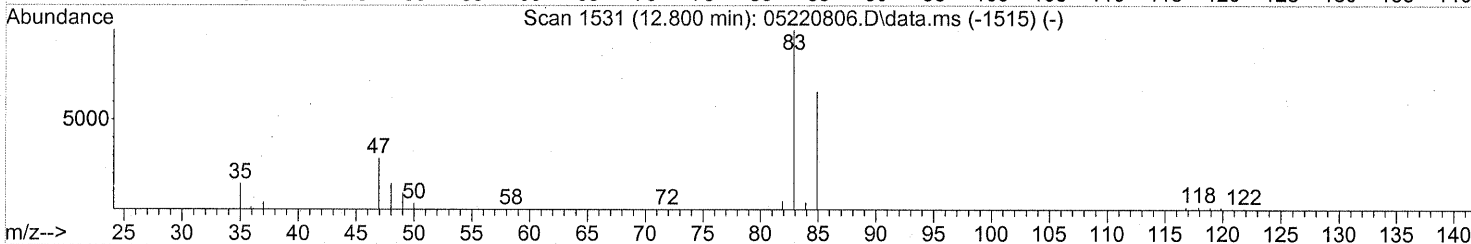
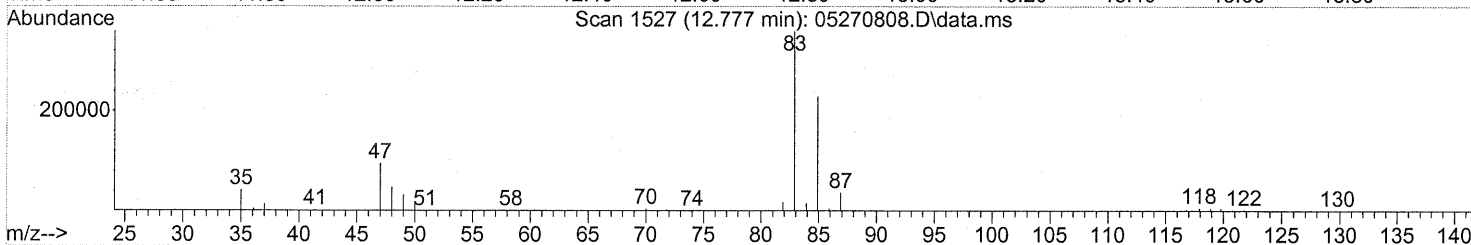
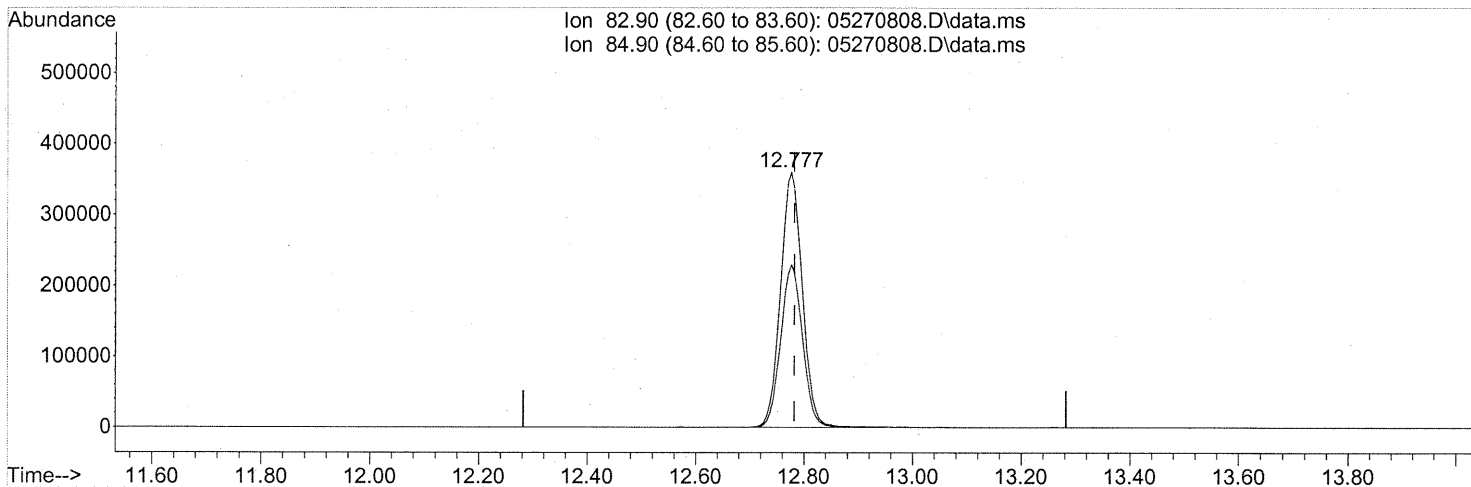
Quant Time: May 28 04:11:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.57	118	90	N.D.		
81) 2-Ethyltoluene	24.61	105	1029	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	2310	N.D.		
83) n-Decane	24.98	57	1765	N.D.		
84) Benzyl Chloride	25.05	91	147	N.D.		
85) 1,3-Dichlorobenzene	25.09	146	183	N.D.		
86) 1,4-Dichlorobenzene	25.15	146	12277	0.156	ng	98
87) sec-Butylbenzene	25.21	105	274	N.D.		
88) p-Isopropyltoluene	25.40	119	738	N.D.		
89) 1,2,3-Trimethylbenzene	25.39	105	1027	N.D.		
90) 1,2-Dichlorobenzene	25.58	146	934	N.D.		
91) d-Limonene	25.57	68	391	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.50	57	7281	0.097	ng	# 61
94) 1,2,4-Trichlorobenzene	27.64	180	282	N.D.		
95) Naphthalene	27.78	128	5877	N.D.		
96) n-Dodecane	27.74	57	9978	0.134	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	9255	0.246	ng	94

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

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270808.D
 Acq On : 27 May 2008 14:21
 Operator : WA
 Sample : P0801483-009 Dil (25ml)
 Misc : ENSR SG22B-05 (-3.2, 3.5)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 28 04:11:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270808.D\data.ms

(32) Chloroform (T)
 12.777min (-0.006) 20.89ng
 response 998870

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.86
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG86B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00274

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	11	1.1	0.41	2.3	0.23	J
74-87-3	Chloromethane	ND	2.2	1.1	ND	1.1	0.54	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	11	1.1	ND	1.6	0.16	
75-01-4	Vinyl Chloride	ND	2.2	1.1	ND	0.87	0.44	
74-83-9	Bromomethane	ND	2.2	1.1	ND	0.57	0.29	
75-00-3	Chloroethane	ND	2.2	1.1	ND	0.84	0.42	
64-17-5	Ethanol	23	110	1.1	12	59	0.59	J
67-64-1	Acetone	19	110	1.6	7.9	47	0.68	J, B
75-69-4	Trichlorofluoromethane	1.2	2.2	1.1	0.21	0.40	0.20	J
107-13-1	Acrylonitrile	ND	11	1.6	ND	5.1	0.72	
75-35-4	1,1-Dichloroethene	2.5	2.2	1.1	0.63	0.56	0.28	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	11	1.6	ND	3.7	0.54	
75-09-2	Methylene Chloride	2.4	11	1.1	0.71	3.2	0.32	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.2	1.1	ND	0.71	0.36	
76-13-1	Trichlorotrifluoroethane	ND	2.2	1.2	ND	0.29	0.16	
75-15-0	Carbon Disulfide	5.5	11	2.7	1.8	3.6	0.86	J
156-60-5	trans-1,2-Dichloroethene	ND	2.2	1.1	ND	0.56	0.28	
75-34-3	1,1-Dichloroethane	ND	2.2	1.1	ND	0.55	0.28	
1634-04-4	Methyl tert-Butyl Ether	ND	2.2	1.1	ND	0.62	0.31	
108-05-4	Vinyl Acetate	6.7	110	3.6	1.9	32	1.0	J
78-93-3	2-Butanone (MEK)	5.8	11	1.1	2.0	3.8	0.38	J
156-59-2	cis-1,2-Dichloroethene	ND	2.2	1.1	ND	0.56	0.28	
108-20-3	Diisopropyl Ether	ND	11	1.3	ND	2.7	0.31	
67-66-3	Chloroform	4,700	2.2	1.3	970	0.46	0.27	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG86B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00274

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	11	1.1	ND	2.7	0.27	
107-06-2	1,2-Dichloroethane	ND	2.2	1.1	ND	0.55	0.28	
71-55-6	1,1,1-Trichloroethane	ND	2.2	1.1	ND	0.41	0.20	
71-43-2	Benzene	3.2	2.2	1.1	1.0	0.70	0.35	
56-23-5	Carbon Tetrachloride	9.4	2.2	1.1	1.5	0.35	0.18	
994-05-8	tert-Amyl Methyl Ether	ND	11	1.1	ND	2.7	0.27	
78-87-5	1,2-Dichloropropane	ND	2.2	1.1	ND	0.48	0.24	
75-27-4	Bromodichloromethane	2.4	2.2	1.1	0.36	0.33	0.17	
79-01-6	Trichloroethene	4.3	2.2	1.1	0.80	0.41	0.21	
123-91-1	1,4-Dioxane	ND	11	1.4	ND	3.1	0.38	
80-62-6	Methyl Methacrylate	ND	11	1.7	ND	2.7	0.41	
142-82-5	n-Heptane	ND	11	1.4	ND	2.7	0.35	
10061-01-5	cis-1,3-Dichloropropene	ND	11	1.2	ND	2.5	0.26	
108-10-1	4-Methyl-2-pentanone	ND	11	1.2	ND	2.7	0.30	
10061-02-6	trans-1,3-Dichloropropene	ND	11	1.4	ND	2.5	0.31	
79-00-5	1,1,2-Trichloroethane	ND	2.2	1.1	ND	0.41	0.20	
108-88-3	Toluene	4.8	11	1.1	1.3	3.0	0.30	J
591-78-6	2-Hexanone	ND	11	1.7	ND	2.7	0.41	
124-48-1	Dibromochloromethane	ND	2.2	1.5	ND	0.26	0.18	
106-93-4	1,2-Dibromoethane	ND	2.2	1.2	ND	0.29	0.16	
111-65-9	n-Octane	ND	11	1.1	ND	2.4	0.24	
127-18-4	Tetrachloroethene	52	2.2	1.1	7.7	0.33	0.16	
108-90-7	Chlorobenzene	ND	2.2	1.1	ND	0.48	0.25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG86B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00274

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.075 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

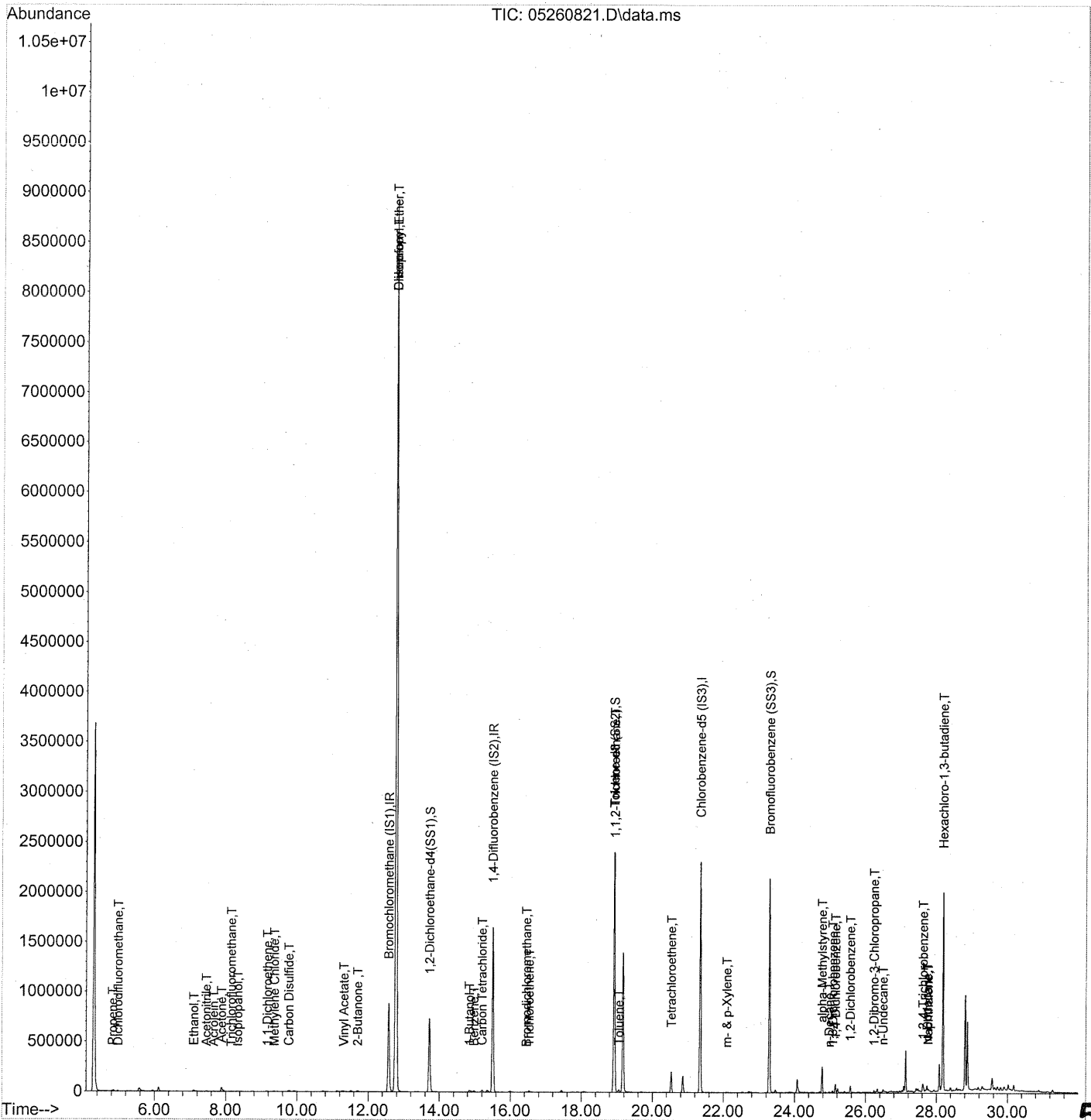
CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	11	1.4	ND	2.6	0.32	
179601-23-1	m,p-Xylenes	ND	11	2.9	ND	2.6	0.67	
75-25-2	Bromoform	ND	11	1.7	ND	1.1	0.16	
100-42-5	Styrene	ND	11	1.7	ND	2.6	0.40	
95-47-6	o-Xylene	ND	11	1.4	ND	2.6	0.32	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	1.4	ND	0.32	0.21	
98-82-8	Cumene	ND	11	1.2	ND	2.3	0.25	
103-65-1	n-Propylbenzene	ND	11	1.2	ND	2.3	0.24	
622-96-8	4-Ethyltoluene	ND	11	1.3	ND	2.3	0.26	
108-67-8	1,3,5-Trimethylbenzene	ND	11	1.3	ND	2.3	0.27	
98-83-9	alpha-Methylstyrene	ND	11	1.6	ND	2.3	0.34	
95-63-6	1,2,4-Trimethylbenzene	ND	11	1.5	ND	2.3	0.31	
100-44-7	Benzyl Chloride	ND	2.2	1.9	ND	0.43	0.37	
541-73-1	1,3-Dichlorobenzene	3.1	2.2	1.4	0.52	0.37	0.23	
106-46-7	1,4-Dichlorobenzene	12	2.2	1.2	1.9	0.37	0.21	
135-98-8	sec-Butylbenzene	ND	11	1.3	ND	2.0	0.24	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	11	1.4	ND	2.0	0.26	
95-50-1	1,2-Dichlorobenzene	10	2.2	1.5	1.7	0.37	0.24	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.7	ND	1.2	0.18	
120-82-1	1,2,4-Trichlorobenzene	6.4	2.2	1.7	0.86	0.30	0.23	
91-20-3	Naphthalene	ND	4.5	1.6	ND	0.85	0.31	
87-68-3	Hexachlorobutadiene	300	2.2	2.0	28	0.21	0.19	
98-06-6	tert-Butylbenzene	ND	4.5	1.1	ND	0.81	0.20	
104-51-8	n-Butylbenzene	ND	4.5	1.1	ND	0.81	0.20	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 18:34:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\26\
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 Quant Method : J:\MS13\METHODS\R13052208.M
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 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	447794	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1909931	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	893874	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	747754	24.100	ng	0.00	
Spiked Amount	25.000		Recovery	=	96.40%		✓
57) Toluene-d8 (SS2)	18.92	98	2020981	25.175	ng	0.00	
Spiked Amount	25.000		Recovery	=	100.68%		✓
73) Bromofluorobenzene (SS3)	23.29	174	810869	24.839	ng	0.00	
Spiked Amount	25.000		Recovery	=	99.36%		✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	3270	0.092	ng	# 19
3) Dichlorodifluoromethane	4.99	85	5895	0.090	ng	96
4) Chloromethane	5.33	50	1193	N.D.	✓	
5) Freon 114	0.00	135	0	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.04	54	194	N.D.	✓	
8) Bromomethane	6.52	94	181	N.D.	✓	
9) Chloroethane	6.84	64	69	N.D.	✓	
10) Ethanol	7.11	45	23819m	1.012	ng	
11) Acetonitrile	7.46	41	7076	0.104	ng	96
12) Acrolein	7.67	56	1563	0.093	ng	91
13) Acetone	7.89	58	20280	0.841	ng	# 69
14) Trichlorofluoromethane	8.16	101	2963	0.053	ng	100
15) Isopropanol	8.34	45	6692	0.087	ng	98
16) Acrylonitrile	8.69	53	69	N.D.	✓	
17) 1,1-Dichloroethene	9.17	96	2755	0.112	ng	# 72
18) tert-Butanol	9.30	59	1846	N.D.	✓	
19) Methylene Chloride	9.37	84	2965	0.110	ng	84
20) Allyl Chloride	9.45	41	307	N.D.	✓	
21) Trichlorotrifluoroethane	9.80	151	122	N.D.	✓	
22) Carbon Disulfide	9.77	76	25207	0.247	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
24) 1,1-Dichloroethane	11.09	63	199	N.D.	✓	
25) Methyl tert-Butyl Ether	11.22	73	3476	N.D.	✓	
26) Vinyl Acetate	11.32	86	1333	0.299	ng	# 35
27) 2-Butanone	11.71	72	4585	0.261	ng	# 91
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	965617	44.791	ng NR	# 1
30) Ethyl Acetate	12.79	61	76	N.D.		
31) n-Hexane	12.69	57	479	N.D.		

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Quant Time: May 30 18:34:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	9169362	224.556 ng	SR dil	100
34) Tetrahydrofuran	13.39	72	81	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	69	N.D. ✓		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.85	56	20256	0.772 ng	#	4
41) Benzene	14.98	78	14464	0.145 ng		98
42) Carbon Tetrachloride	15.21	117	16279	0.423 ng		99
43) Cyclohexane	15.41	84	374	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D. ✓		
45) 1,2-Dichloropropane	16.23	63	66	N.D. ✓		
46) Bromodichloromethane	16.46	83	3660	0.108 ng		100
47) Trichloroethene	16.53	130	5913	0.193 ng		90
48) 1,4-Dioxane	16.52	88	76	N.D. ✓		
49) Isooctane	16.62	57	1449	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D. ✓		
51) n-Heptane	0.00	71	0	N.D. ✓		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	185	N.D. ✓		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.93	97	171862	6.954 ng	NR #	8
58) Toluene	19.06	91	23583	0.216 ng		98
59) 2-Hexanone	19.40	43	1742	N.D. ✓		
60) Dibromochloromethane	19.59	129	408	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.22	43	59	N.D.		
63) n-Octane	20.33	57	56	N.D. ✓		
64) Tetrachloroethene	20.54	166	75757	2.346 ng		99
65) Chlorobenzene	21.41	112	3040	N.D. ✓		
66) Ethylbenzene	21.88	91	1469	N.D. ✓		
67) m- & p-Xylene	22.10	91	4770	0.057 ng	#	65
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	22.57	104	81	N.D. ✓		
70) o-Xylene	22.71	91	2786	N.D. ✓		
71) n-Nonane	22.99	43	788	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.61	83	112	N.D. ✓		
74) Cumene	23.47	105	557	N.D. ✓		
75) alpha-Pinene	23.96	93	55	N.D.		
76) n-Propylbenzene	24.10	91	1300	N.D. ✓		
77) 3-Ethyltoluene	24.23	105	2023	N.D.		
78) 4-Ethyltoluene	24.28	105	1638	N.D. ✓		
79) 1,3,5-Trimethylbenzene	24.38	105	863	N.D. ✓		

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 ALS Vial : 10 Sample Multiplier: 1

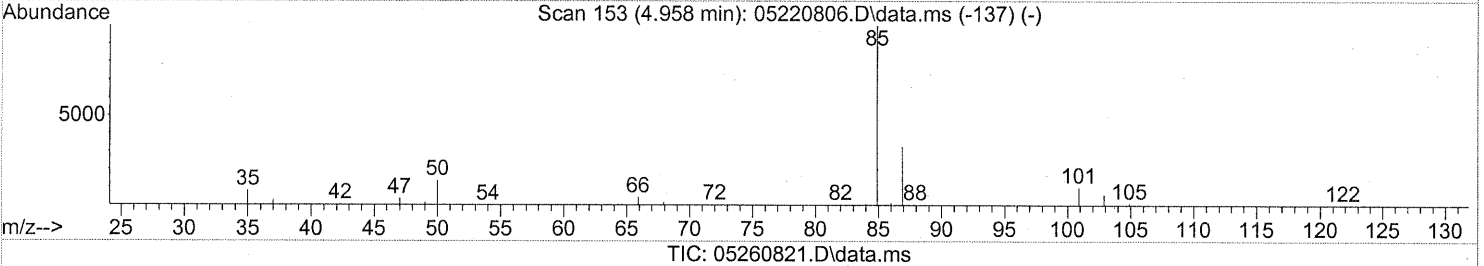
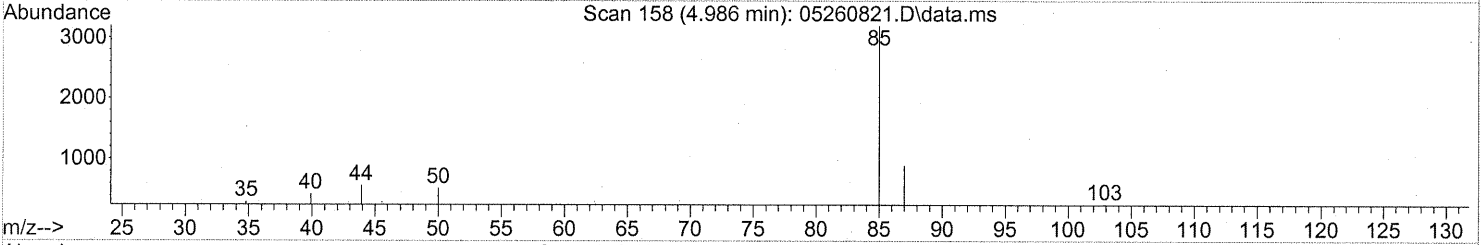
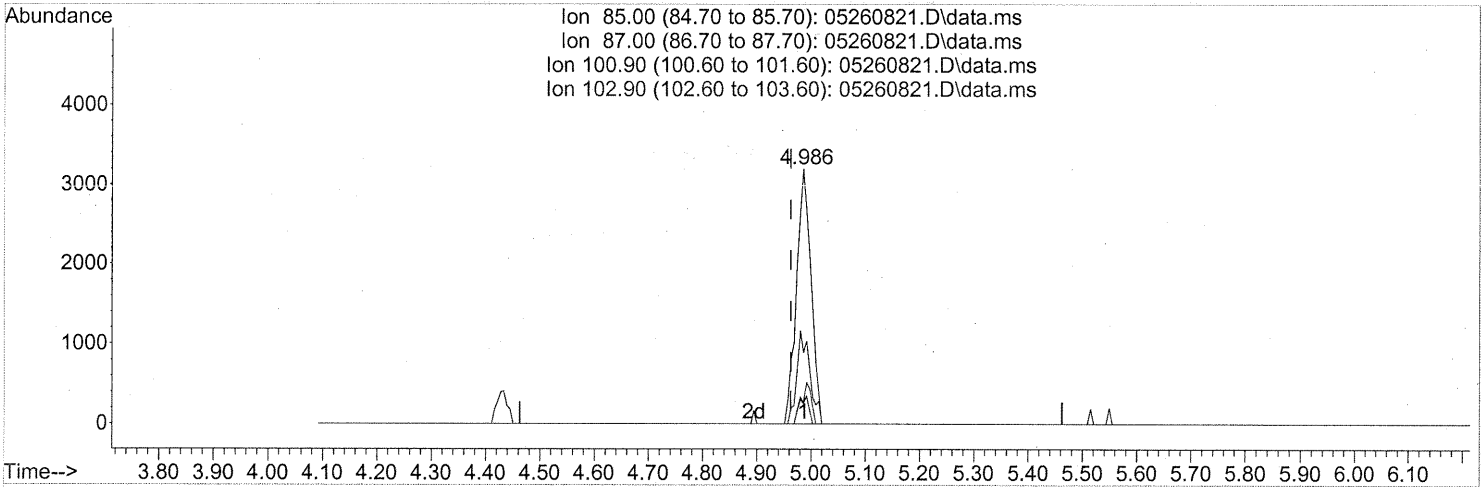
Quant Time: May 30 18:34:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.78	118	3202	0.055	ng #	6
81) 2-Ethyltoluene	24.61	105	1657	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	4204	N.D. ✓		
83) n-Decane	24.98	57	3403	0.056	ng	85
84) Benzyl Chloride	25.16	91	79	N.D. ✓		
85) 1,3-Dichlorobenzene	<u>25.08</u>	146	9510	<u>0.139</u>	ng	93
86) 1,4-Dichlorobenzene	<u>25.16</u>	146	34960	<u>0.525</u>	ng	99
87) sec-Butylbenzene	25.22	105	367	N.D. ✓		
88) p-Isopropyltoluene	25.39	119	1557	N.D. ✓		
89) 1,2,3-Trimethylbenzene	25.40	105	2616	N.D.		
90) 1,2-Dichlorobenzene	<u>25.57</u>	146	29121	<u>0.447</u>	ng	99
91) d-Limonene	25.58	68	890	N.D.		
92) 1,2-Dibromo-3-Chloropr...	26.24	157	1740	0.086	ng NR #	21
93) n-Undecane	26.50	57	8670	0.137	ng #	59
94) 1,2,4-Trichlorobenzene	<u>27.63</u>	180	13720	<u>0.288</u>	ng	98
95) Naphthalene	27.77	128	10556	0.073	ng	99
96) n-Dodecane	27.74	57	17940	0.285	ng	75
97) Hexachloro-1,3-butadiene	<u>28.19</u>	225	428662	<u>13.502</u>	ng	99

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

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.986min (+0.023) 0.09ng

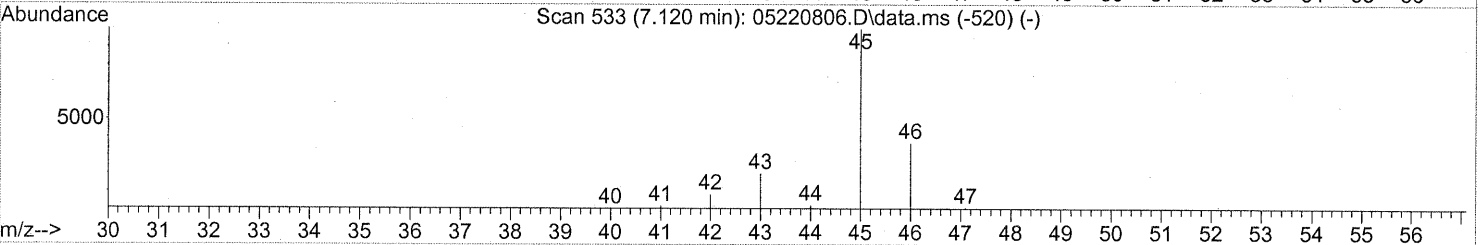
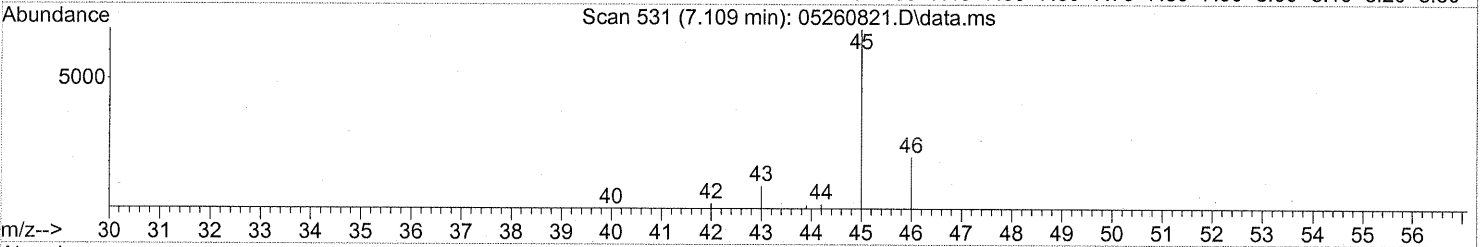
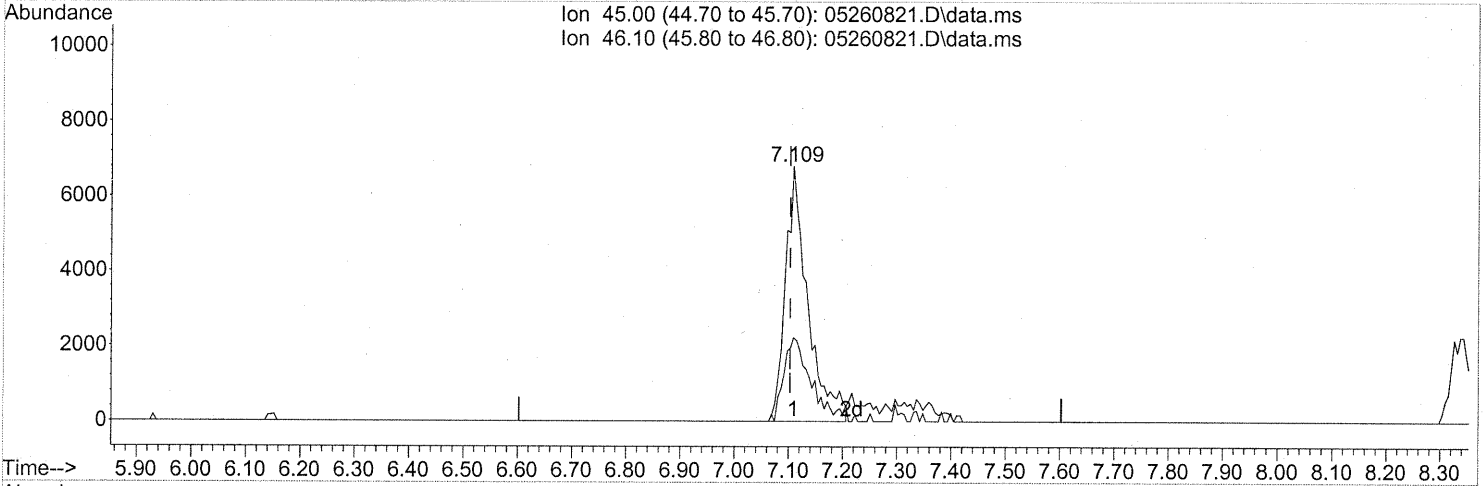
response 5895

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.96
100.90	9.30	7.07
102.90	6.00	11.21

Quantitation Report (Qedit)

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TIC: 05260821.D\data.ms

(10) Ethanol (T)

7.109min (+0.006) 0.82ng

response 19220

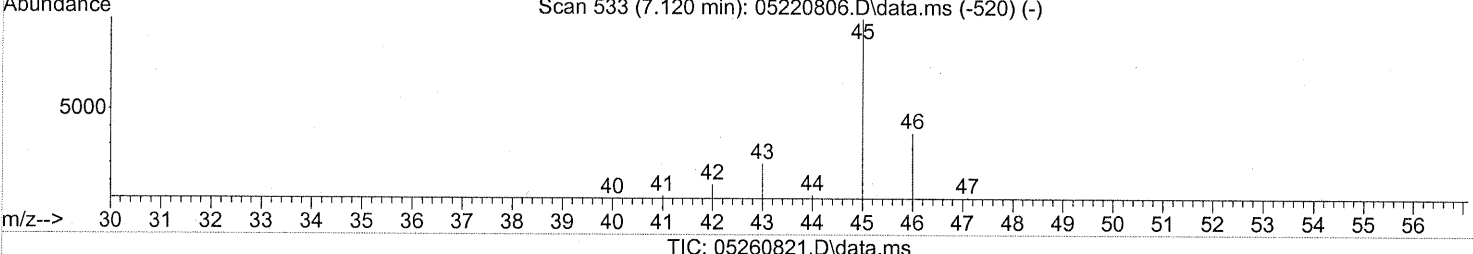
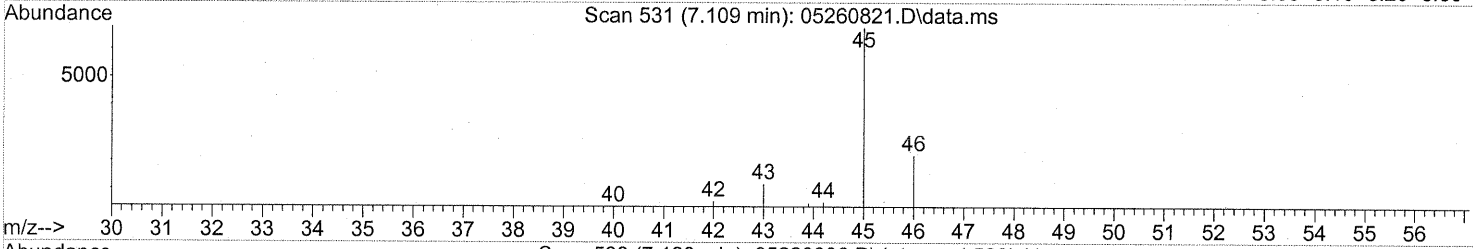
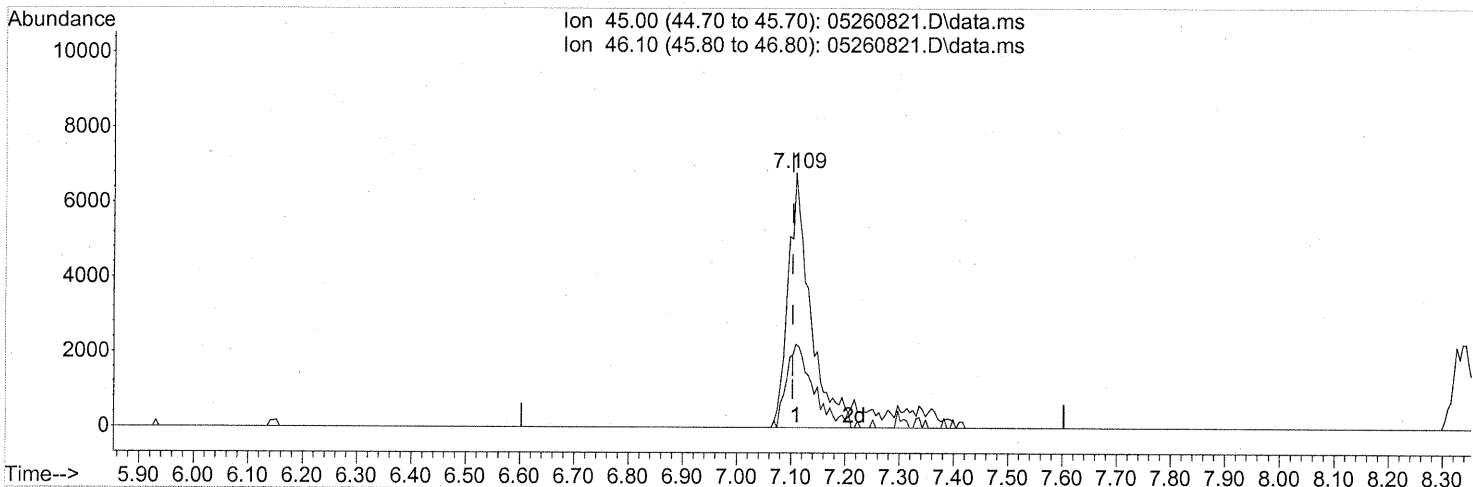
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(10) Ethanol (T)

7.109min (+0.006) 1.01ng m

response 23819

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	30.64
0.00	0.00	0.00
0.00	0.00	0.00

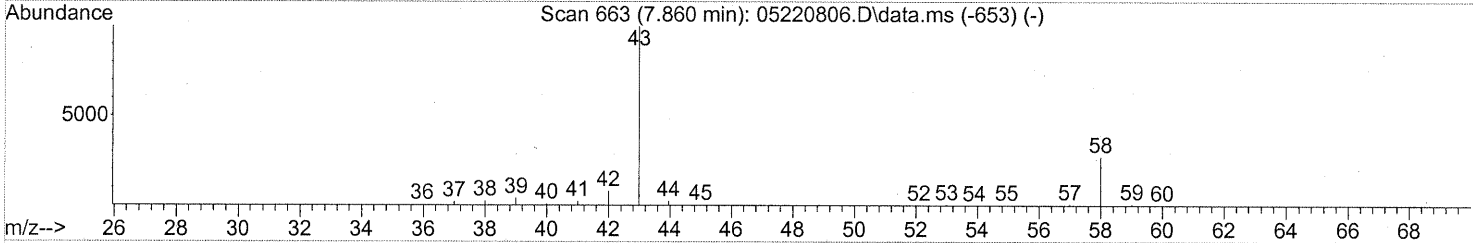
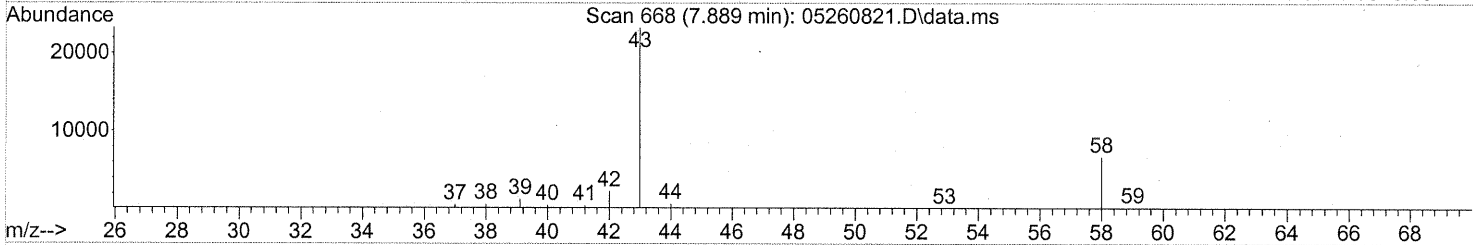
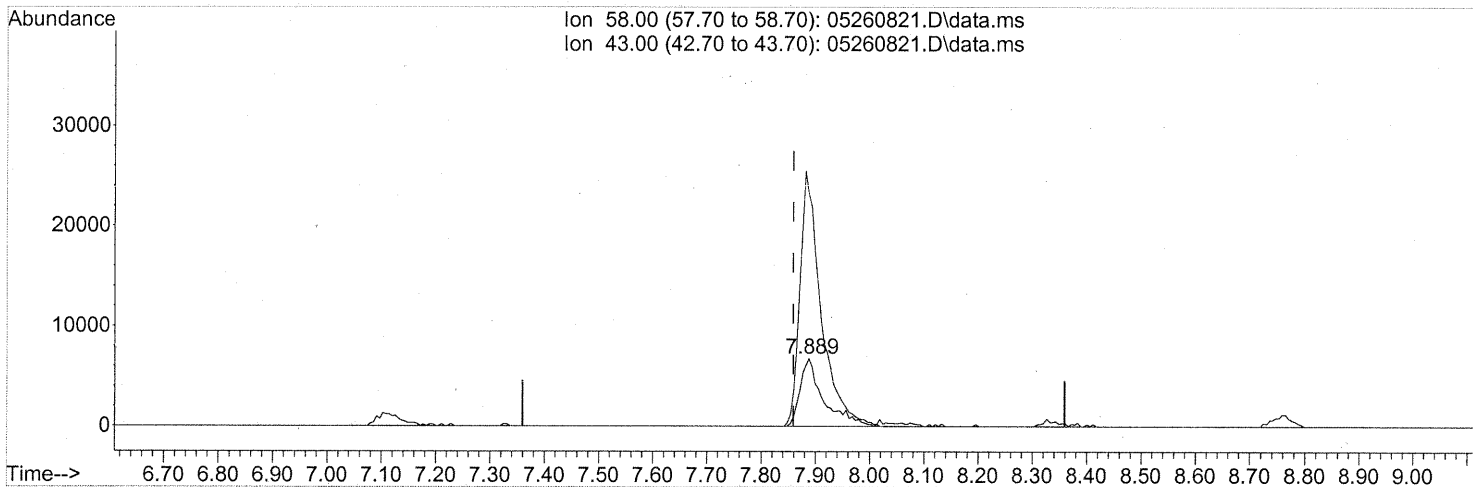
int. whole peaks
WA 5/31/08

P 06/02/08

Quantitation Report (Qedit)

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TIC: 05260821.D\data.ms

(13) Acetone (T)

7.889min (+0.029) 0.84ng

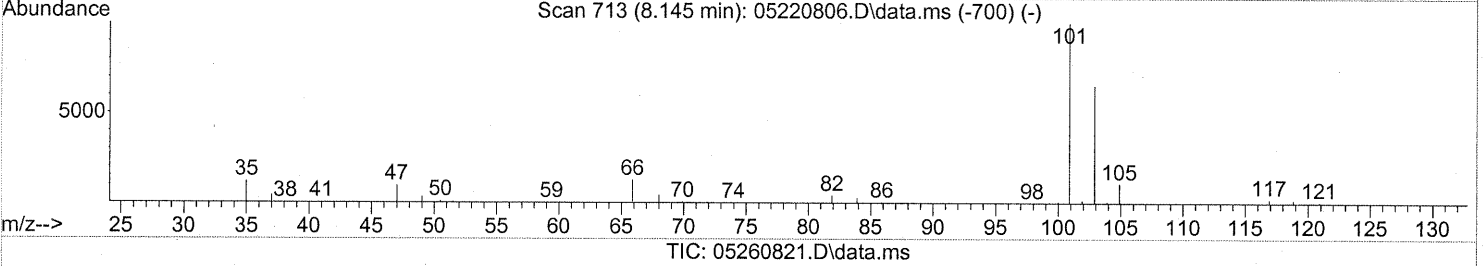
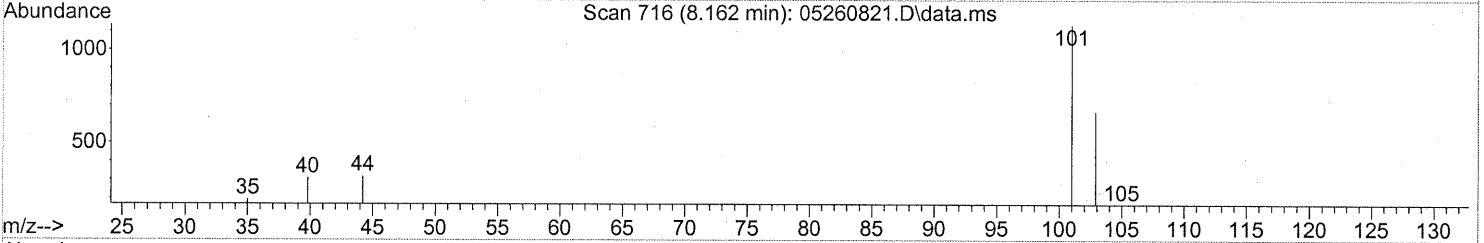
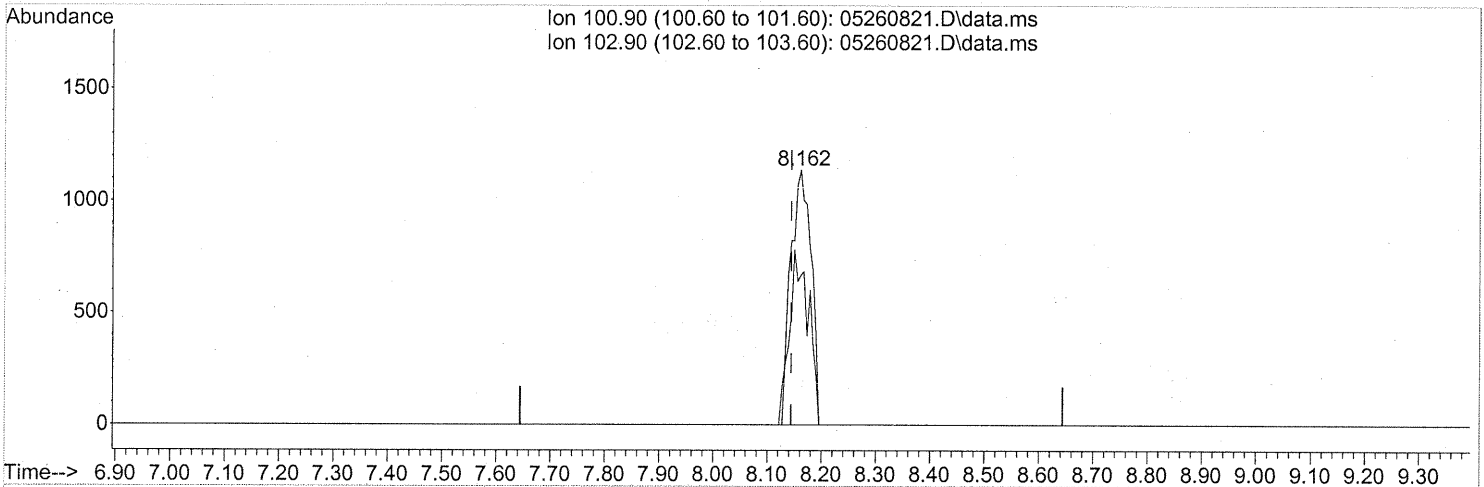
response 20280

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	341.17#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(14) Trichlorofluoromethane (T)

8.162min (+0.017) 0.05ng

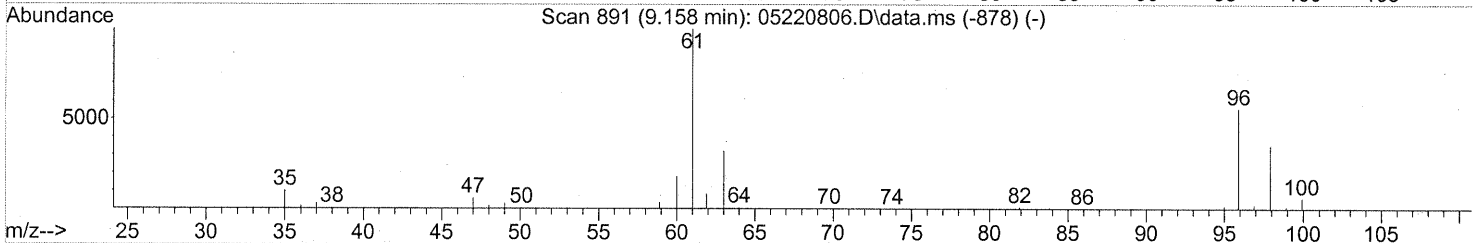
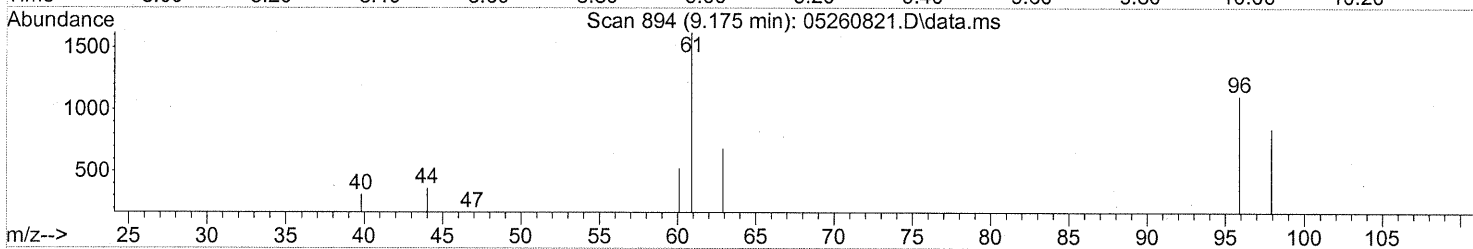
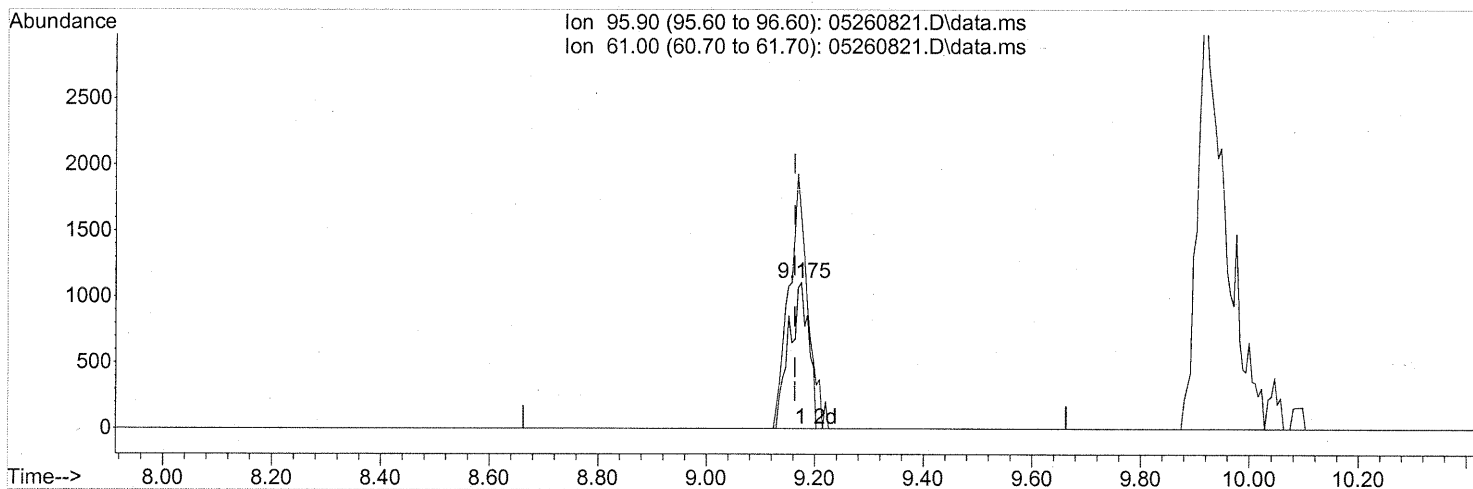
response 2963

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260821.D\data.ms

(17) 1,1-Dichloroethene (T)

9.175min (+0.011) 0.11ng

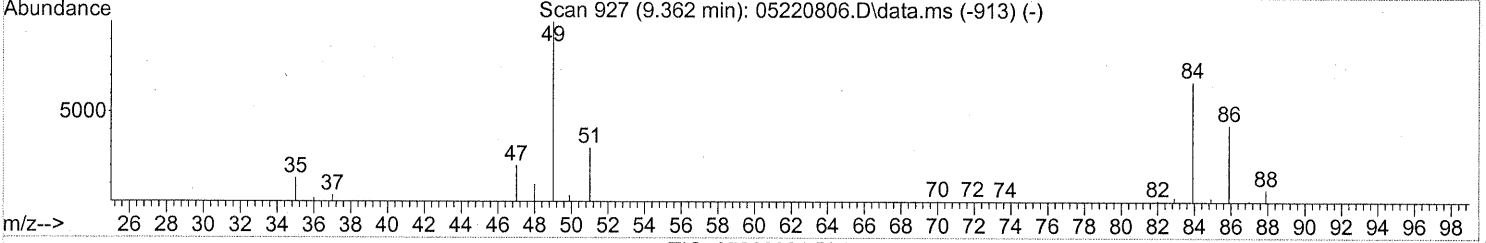
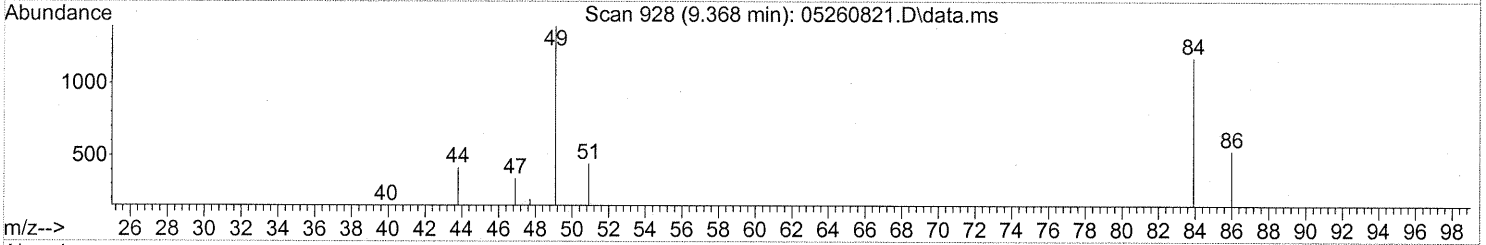
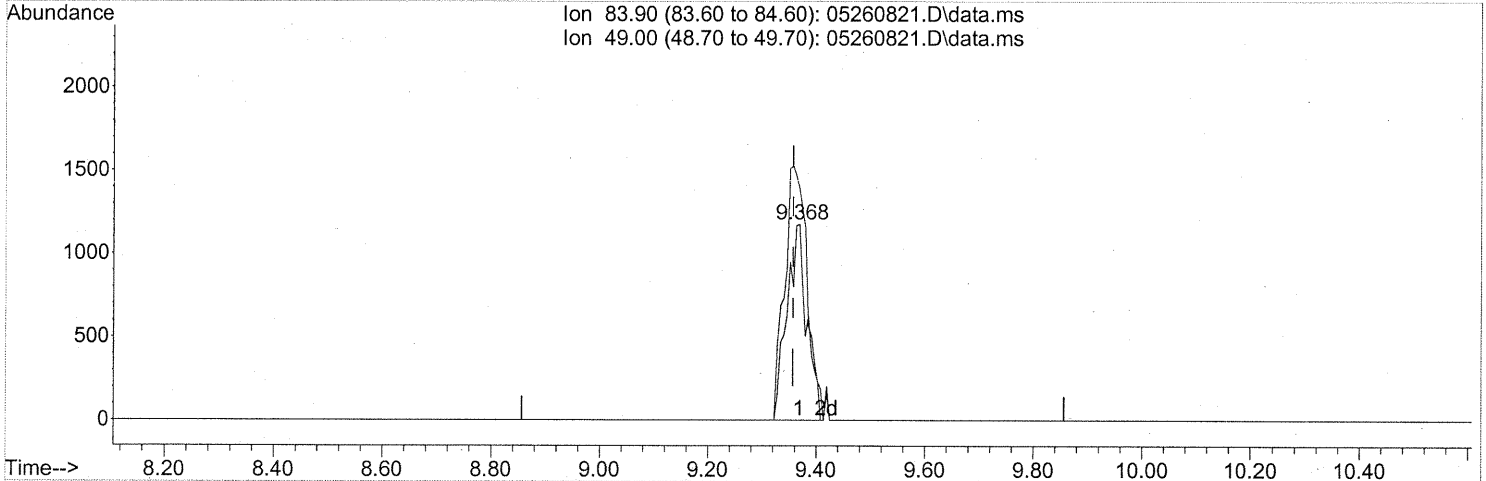
response 2755

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	165.55#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260821.D\data.ms

(19) Methylene Chloride (T)

9.368min (+0.011) 0.11ng

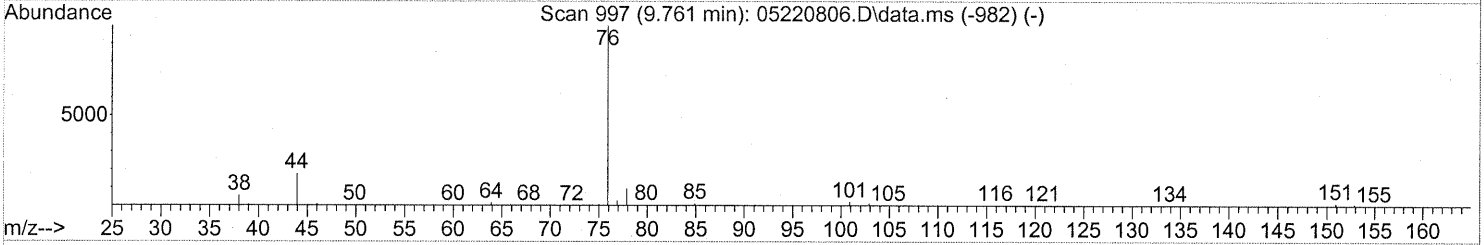
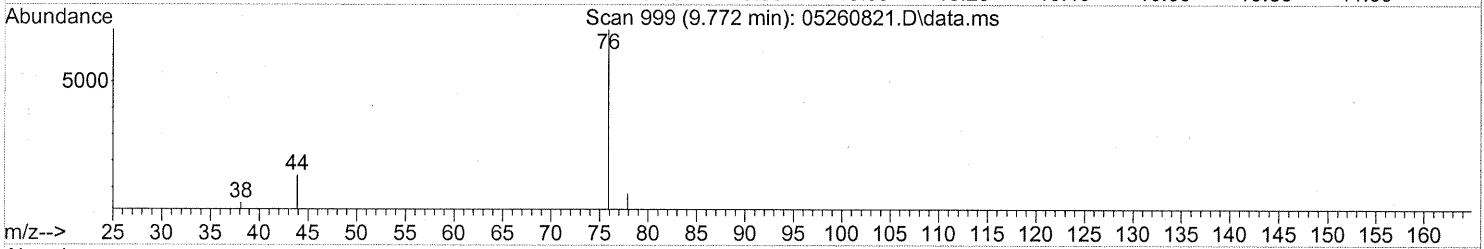
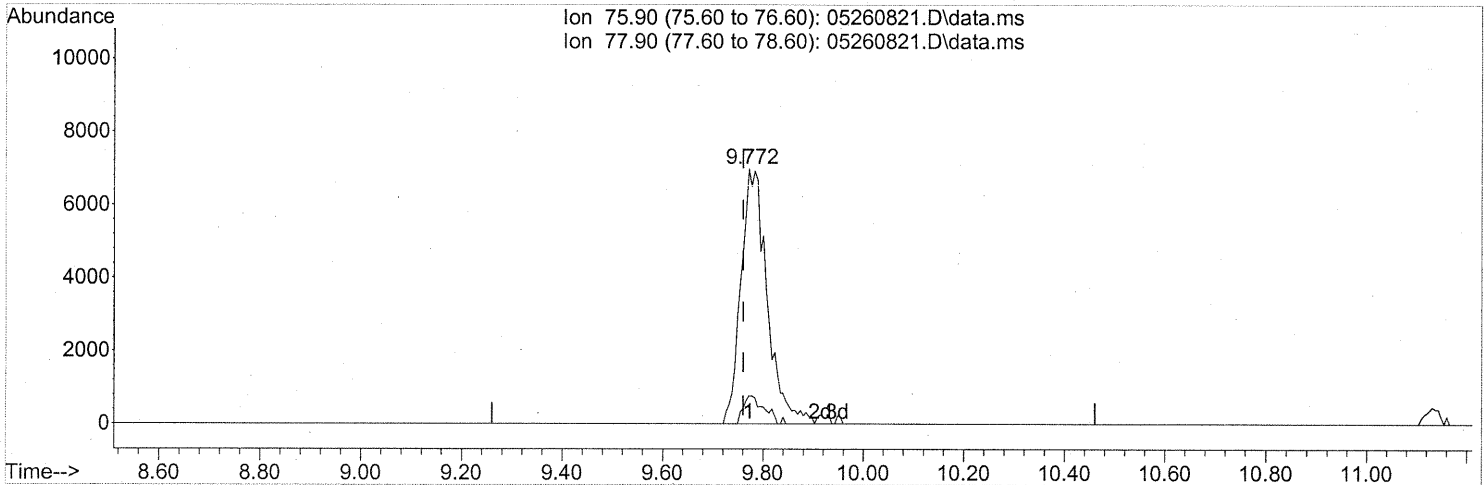
response 2965

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	150.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260821.D
Acq On : 27 May 2008 1:25
Operator : WA
Sample : P0801483-010 (75ml)
Misc : ENSR SG86B-05 (-3.8, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260821.D\data.ms

(22) Carbon Disulfide (T)

9.772min (+0.011) 0.25ng

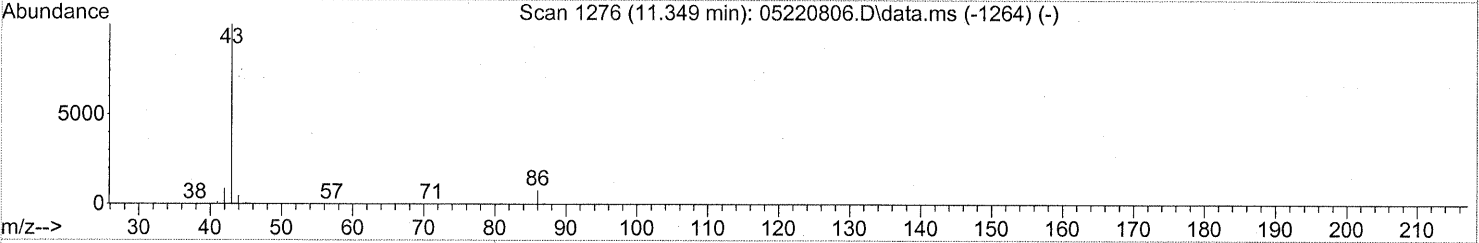
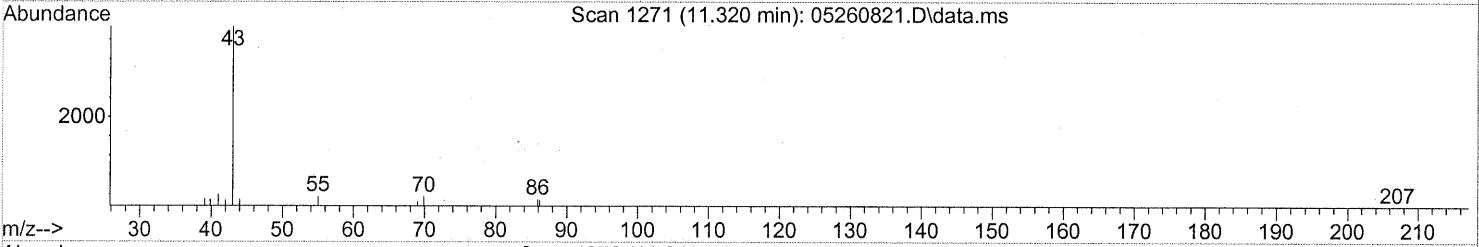
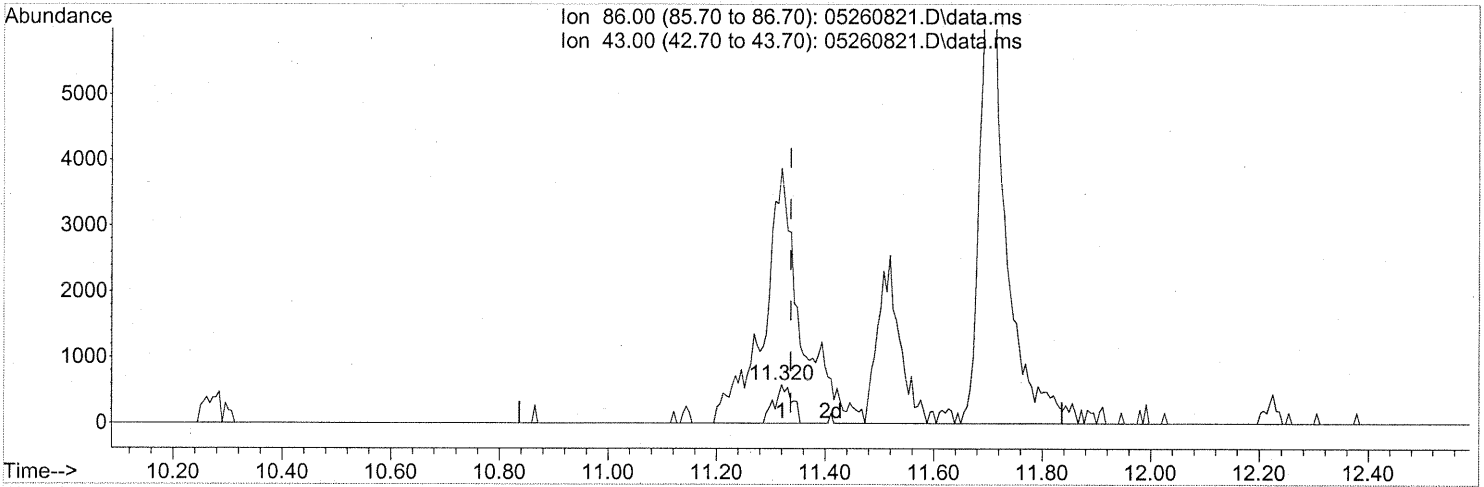
response 25207

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.320min (-0.017) 0.30ng

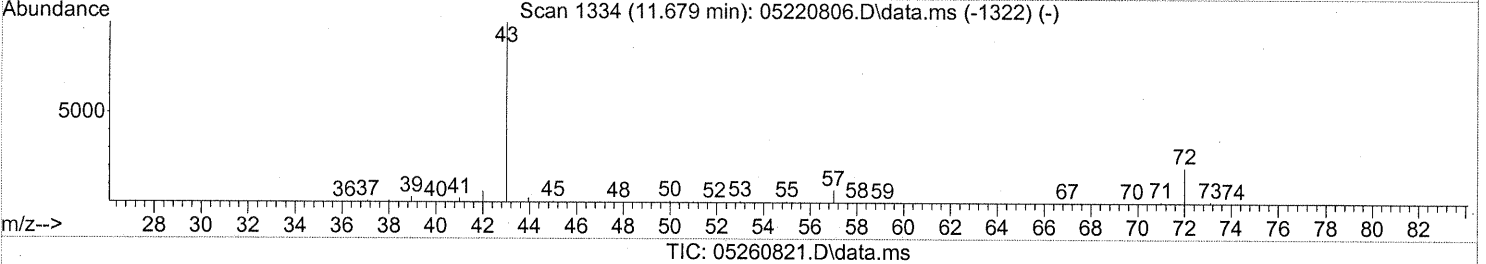
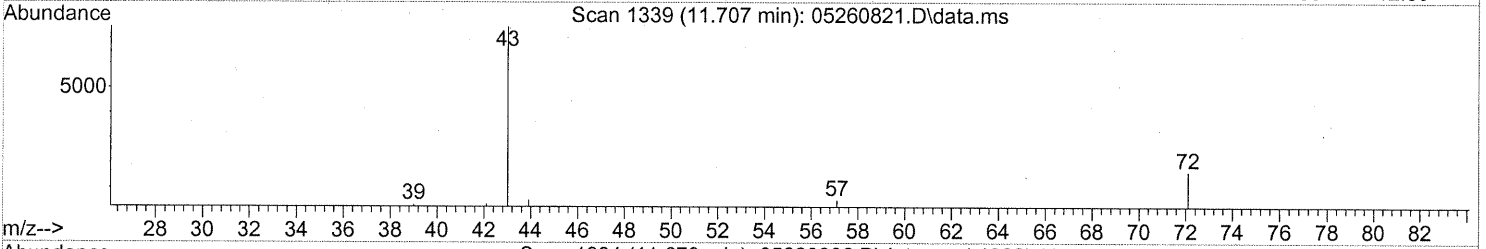
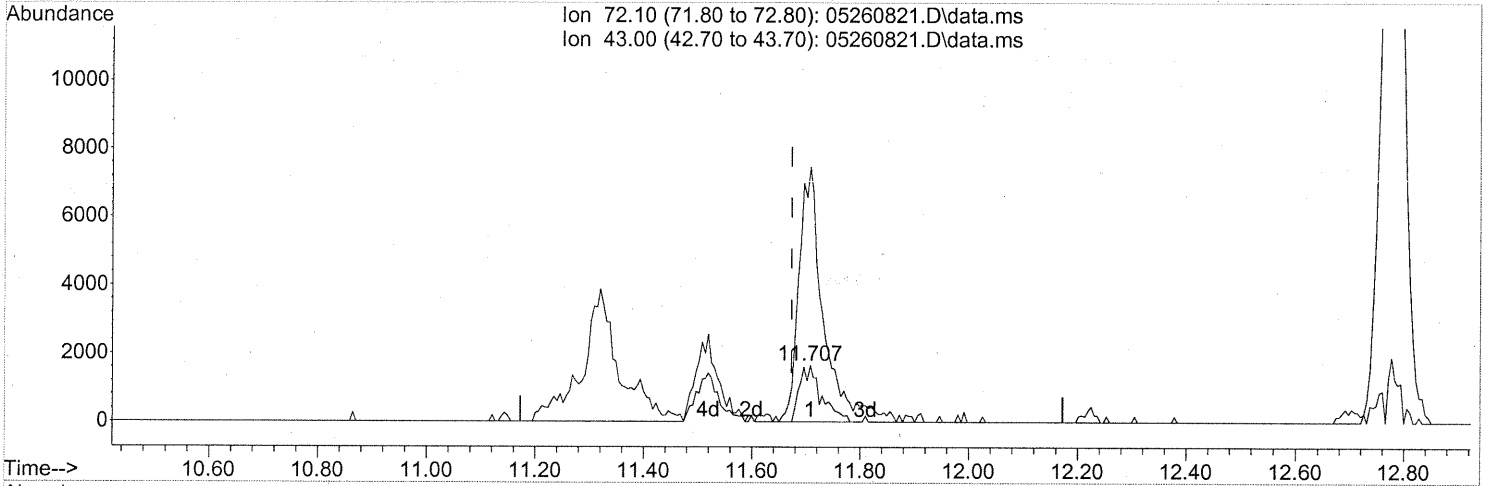
response 1333

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	1014.03#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



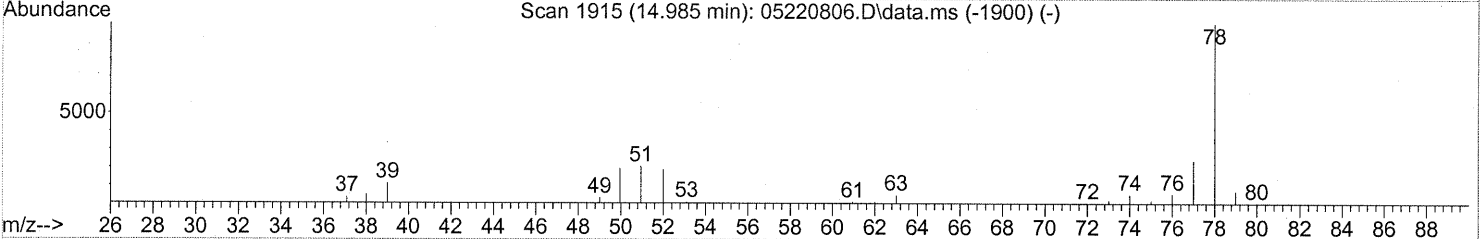
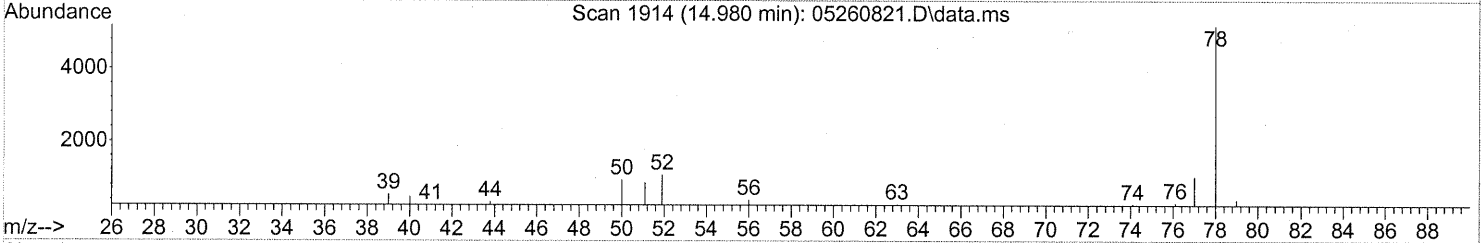
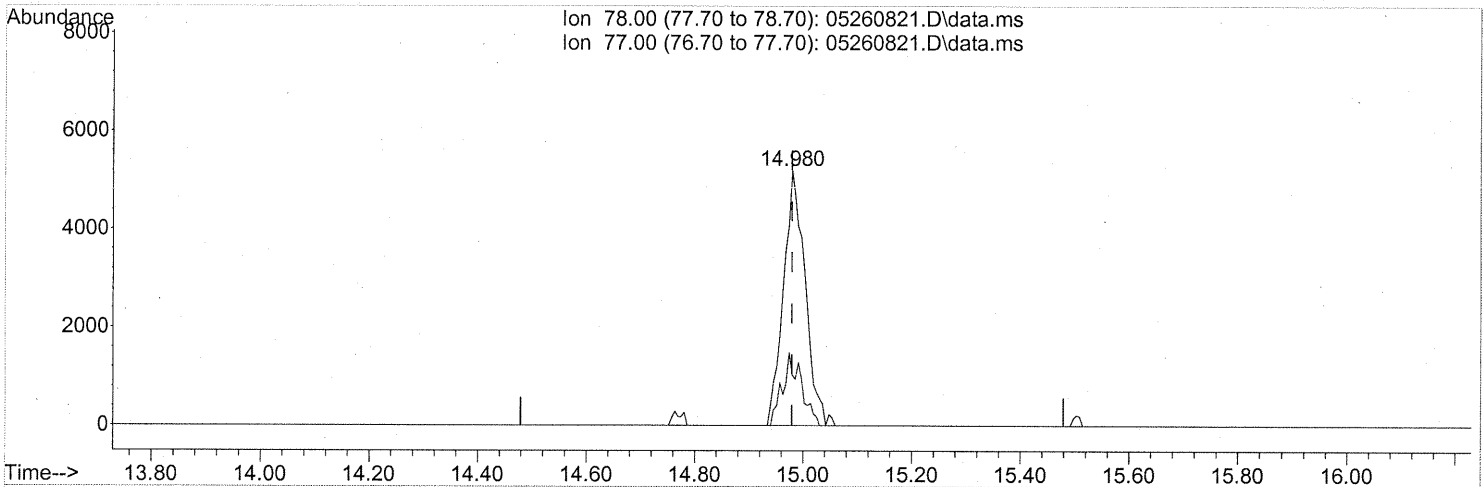
(27) 2-Butanone (T)
 11.707min (+0.034) 0.26ng
 response 4585

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	481.18#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260821.D
Acq On : 27 May 2008 1:25
Operator : WA
Sample : P0801483-010 (75ml)
Misc : ENSR SG86B-05 (-3.8, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260821.D\data.ms

(41) Benzene (T)

14.980min (+0.000) 0.14ng

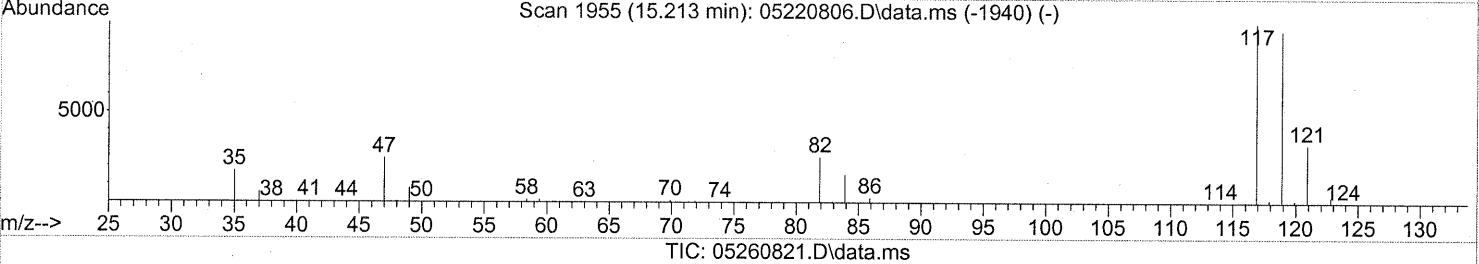
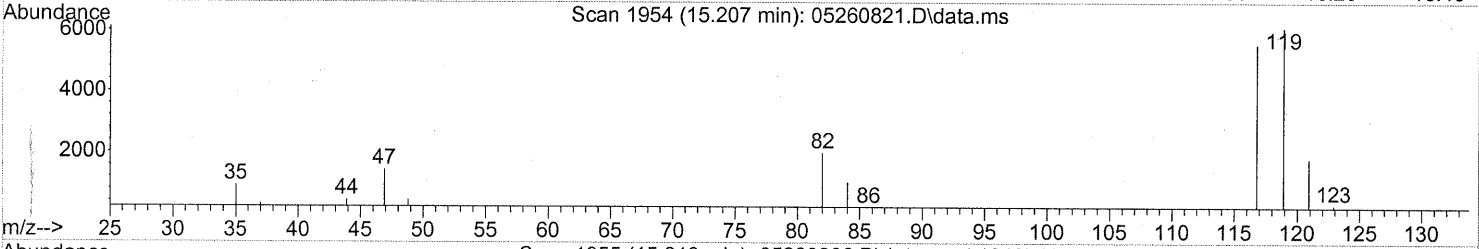
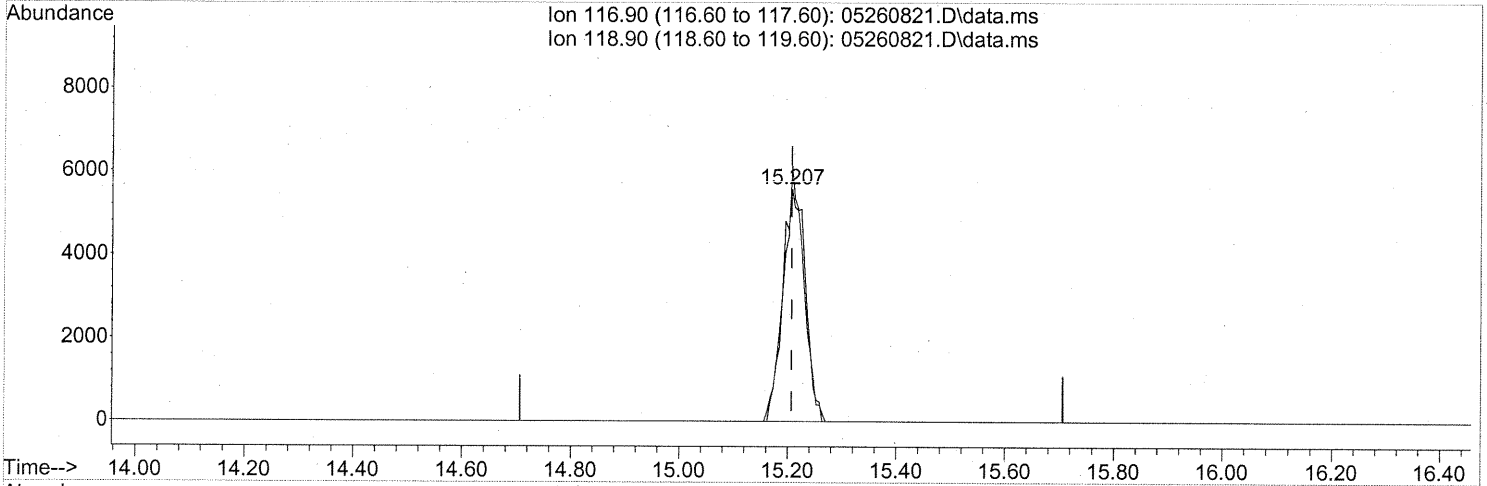
response 14464

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

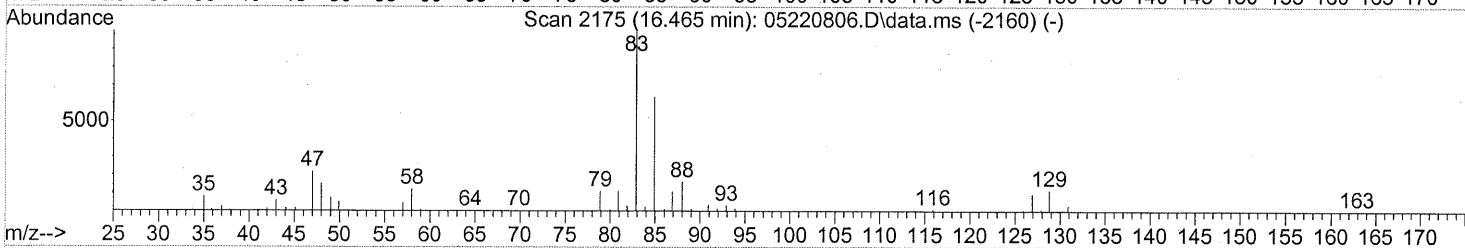
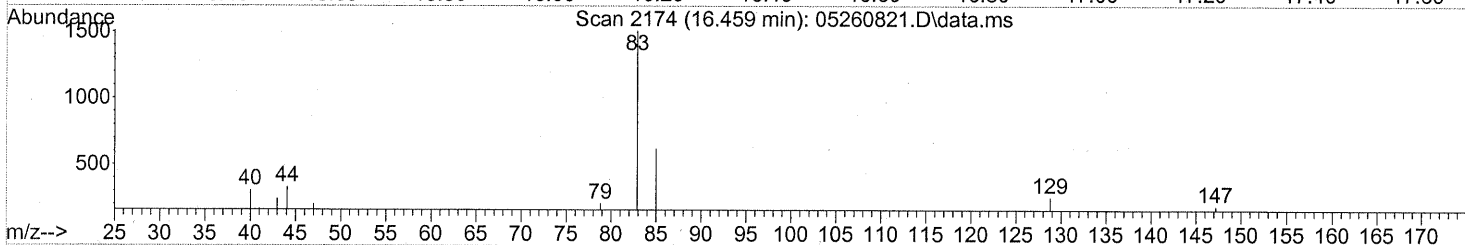
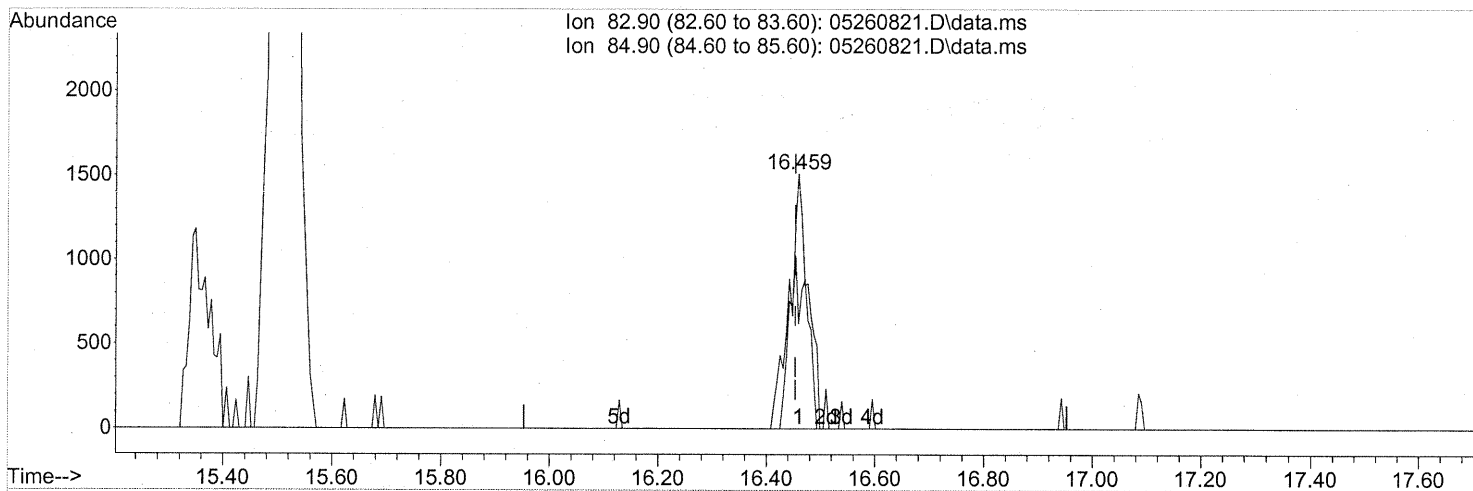
15.207min (+0.000) 0.42ng

response 16279

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	97.72
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 18:34:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.11ng

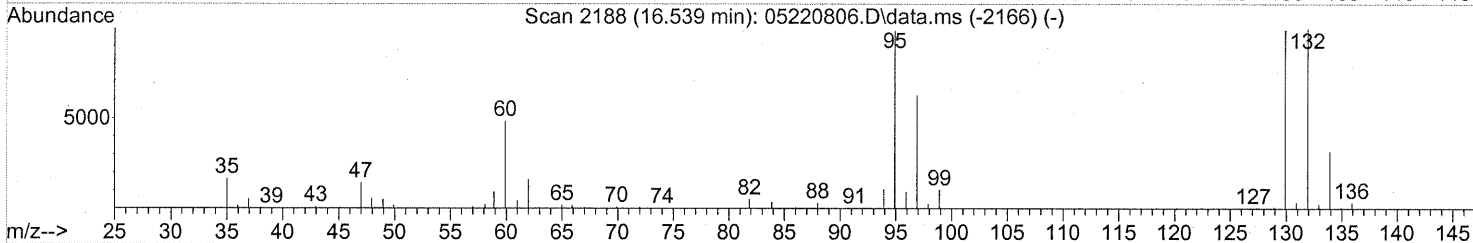
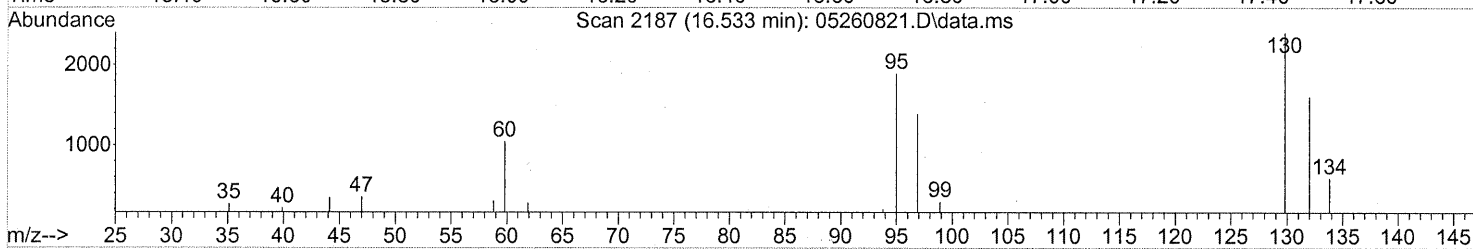
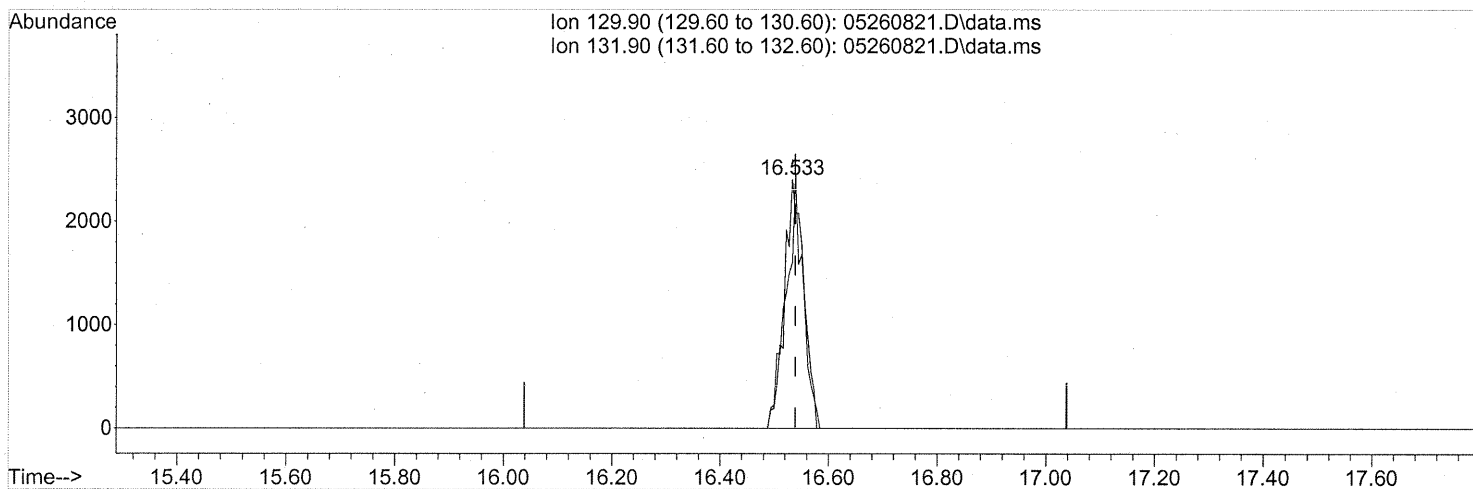
response 3660

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	64.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



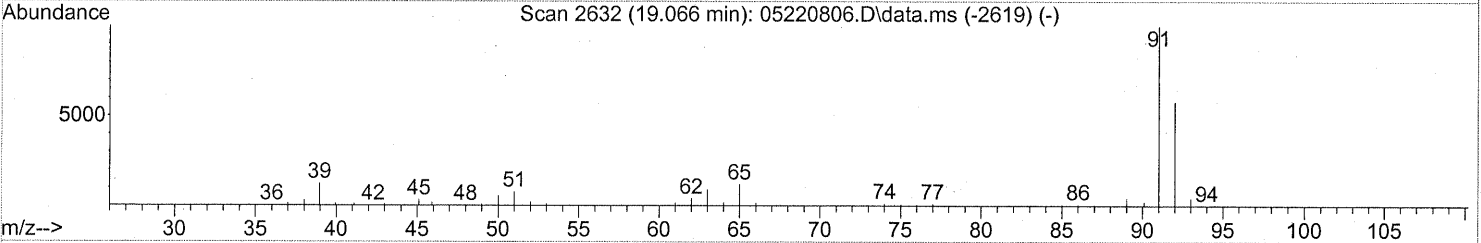
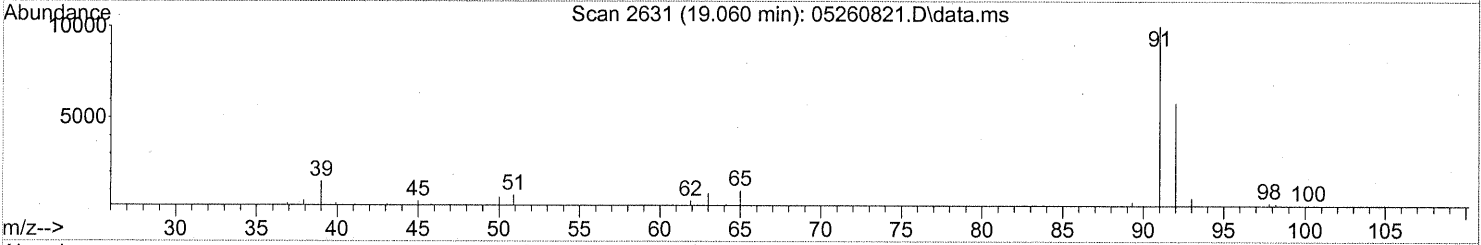
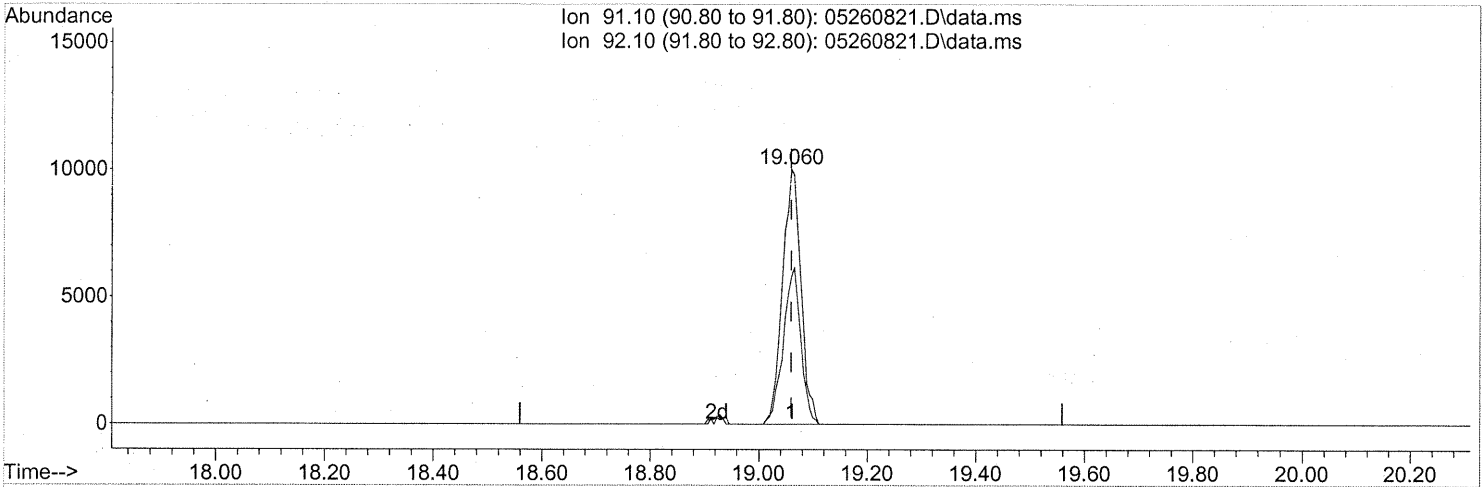
TIC: 05260821.D\data.ms

(47) Trichloroethene (T)
 16.533min (-0.006) 0.19ng
 response 5913

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	90.85
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260821.D\data.ms

(58) Toluene (T)

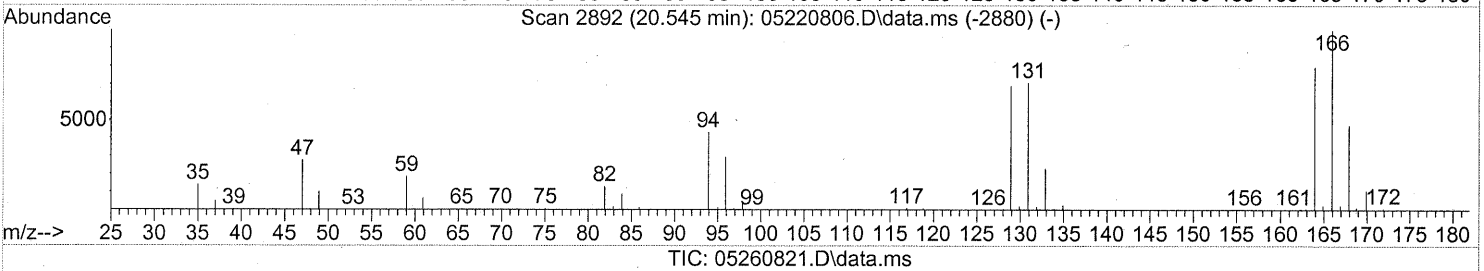
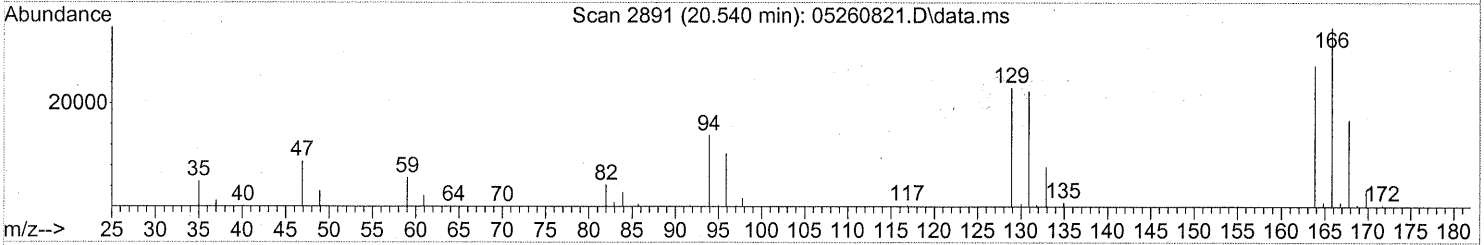
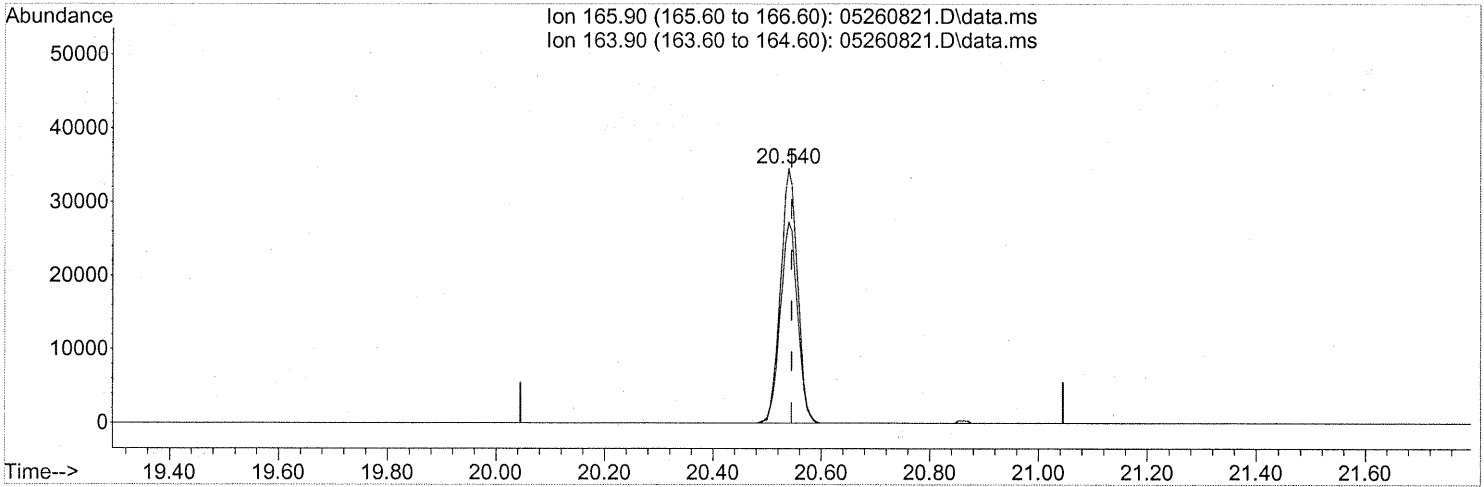
19.060min (+0.000) 0.22ng

response 23583

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.51
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 2.35ng

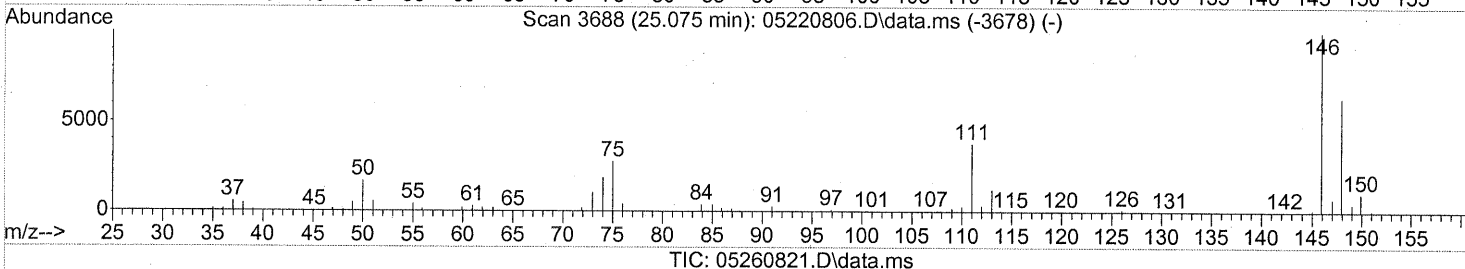
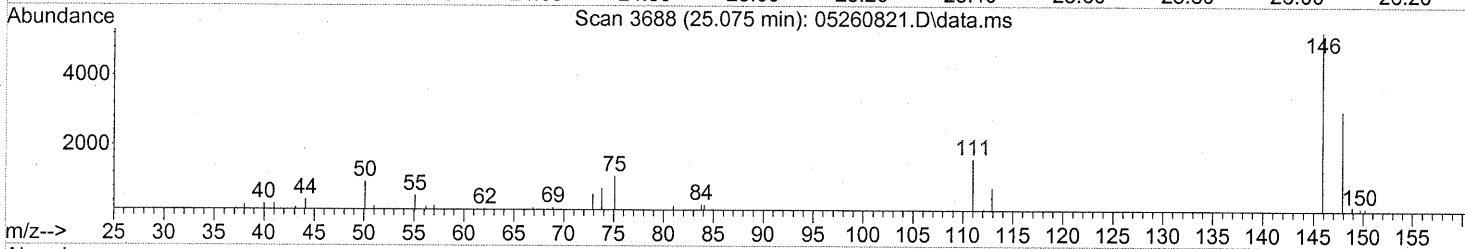
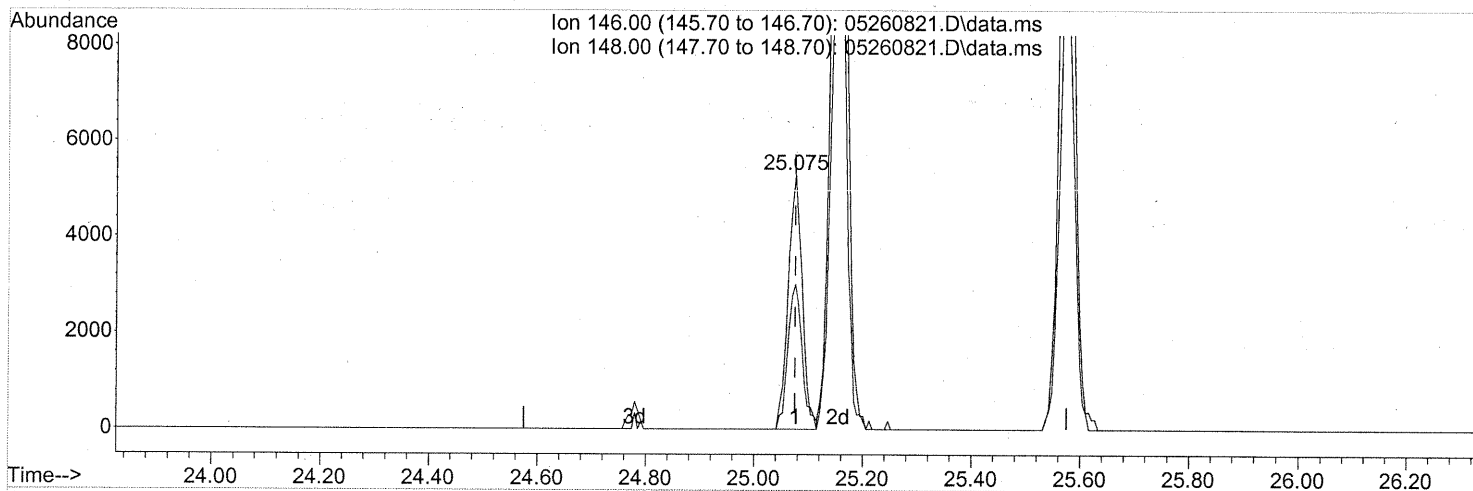
response 75757

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

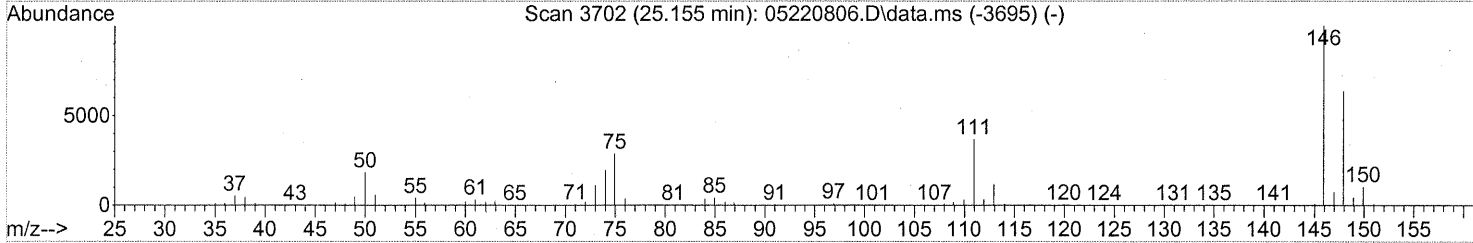
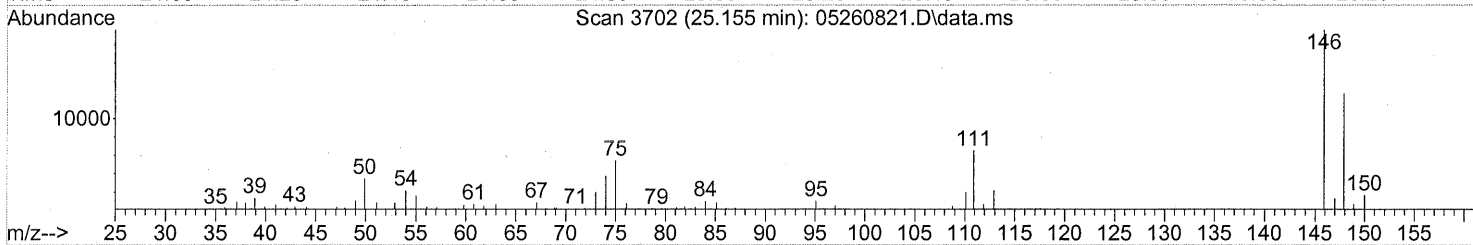
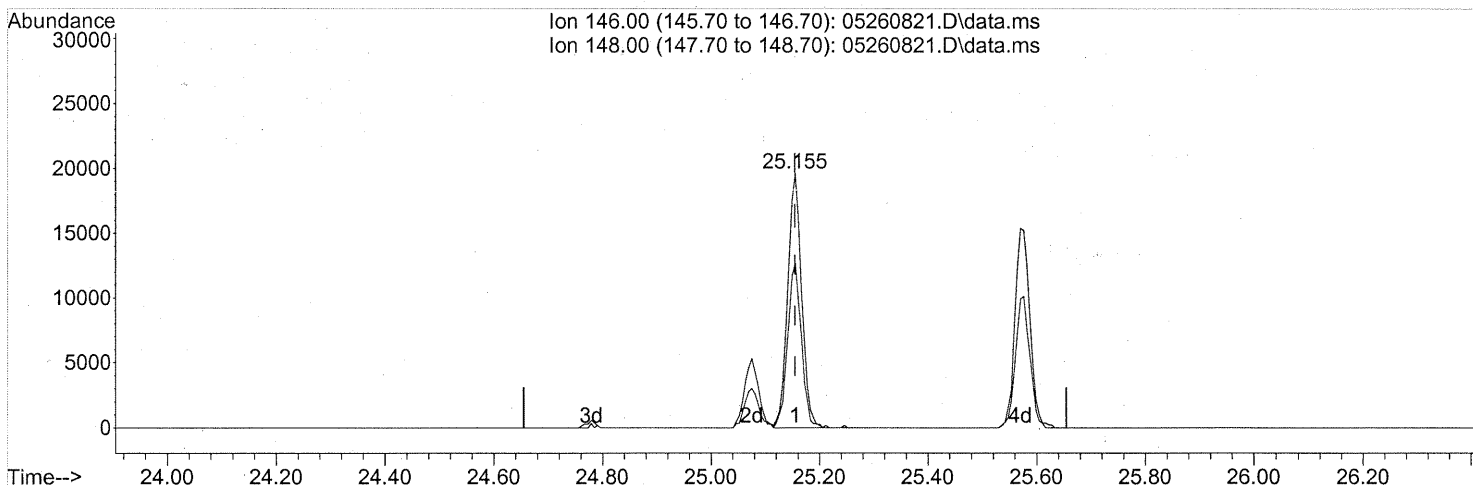
25.075min (+0.000) 0.14ng

response 9510

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	58.14
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260821.D\data.ms

(86) 1,4-Dichlorobenzene (T)

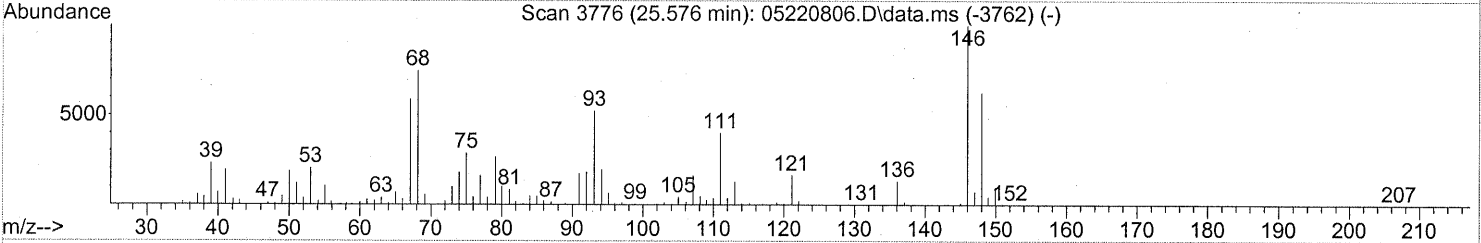
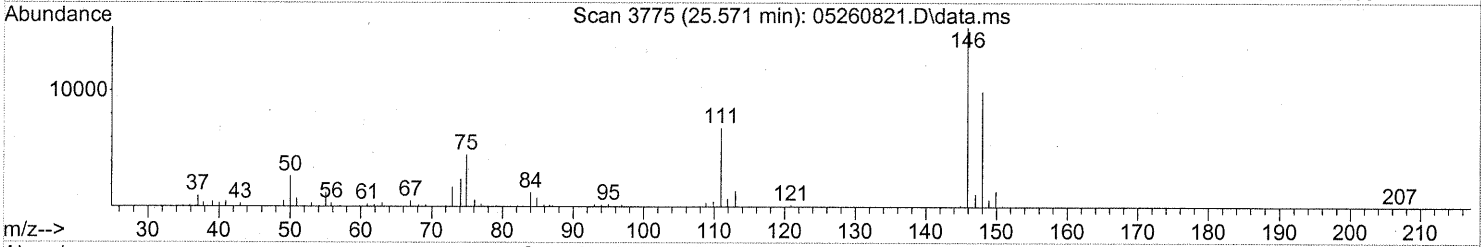
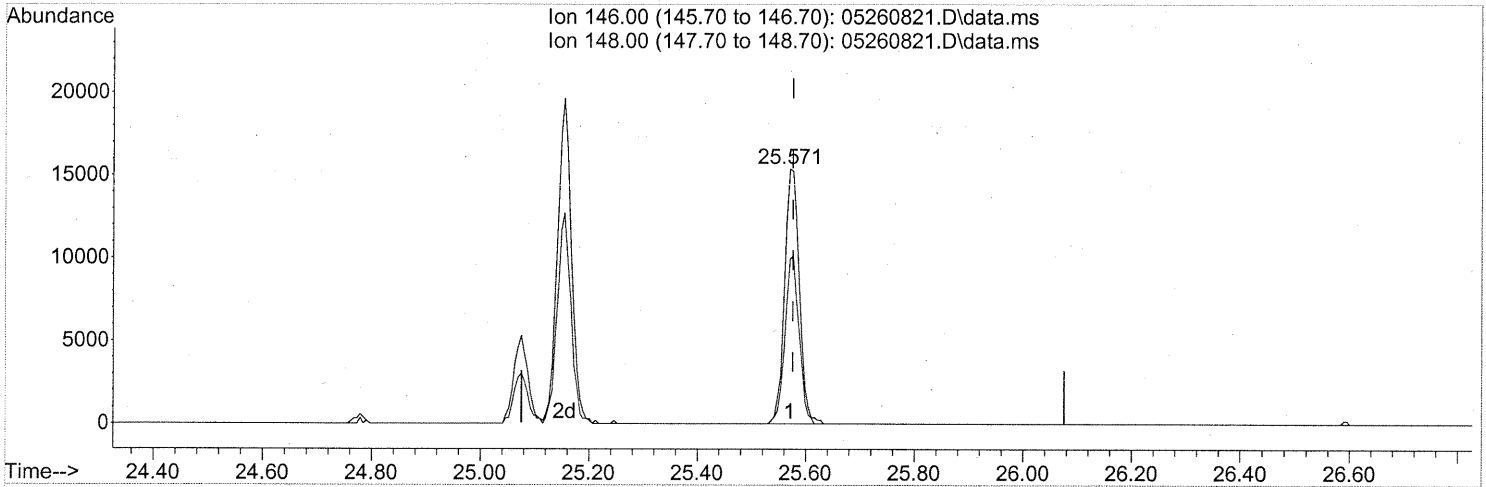
25.155min (+0.000) 0.53ng

response 34960

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.69
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260821.D\data.ms

(90) 1,2-Dichlorobenzene (T)

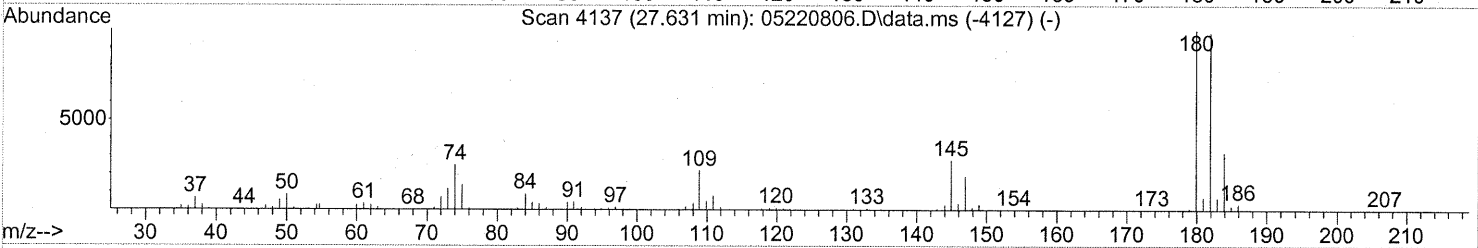
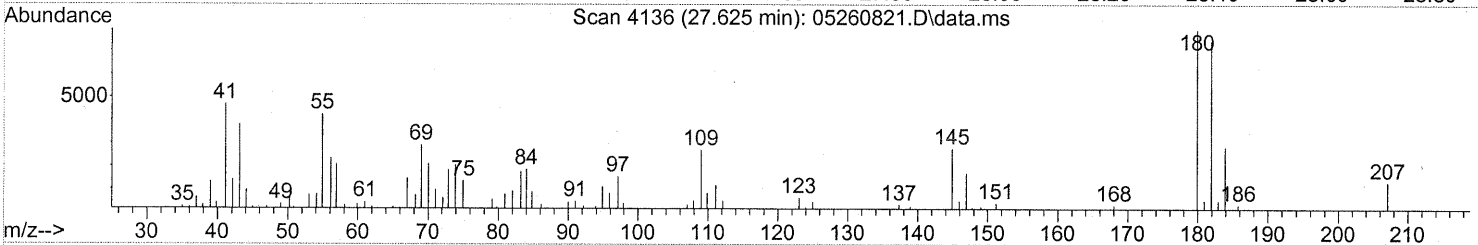
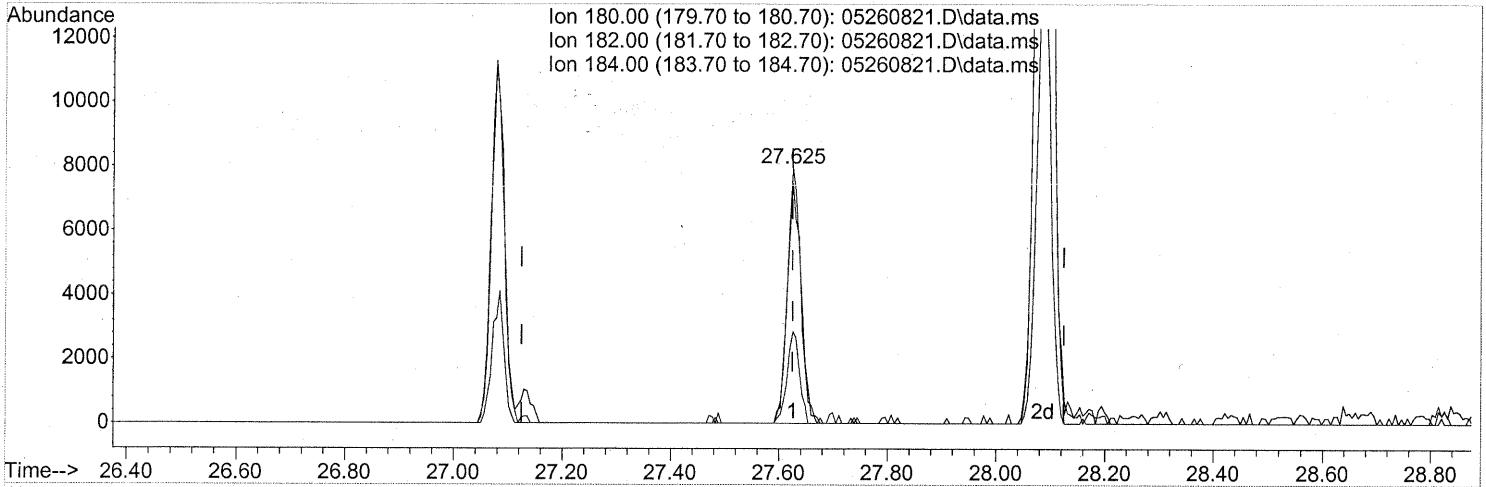
25.571min (-0.006) 0.45ng

response 29121

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	62.76
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(94) 1,2,4-Trichlorobenzene (T)

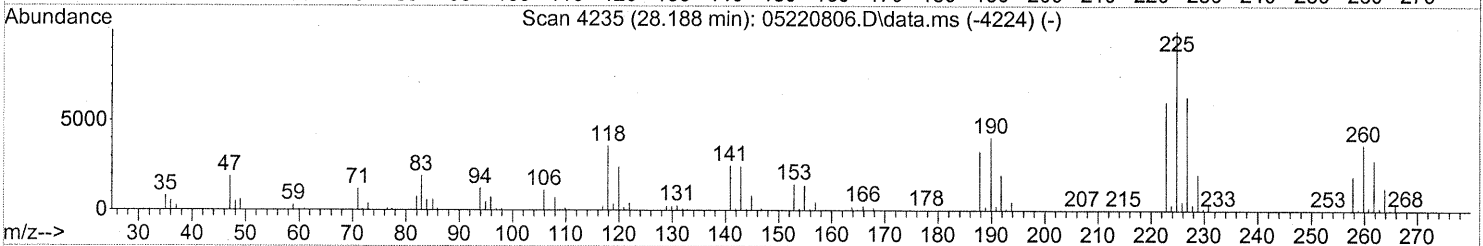
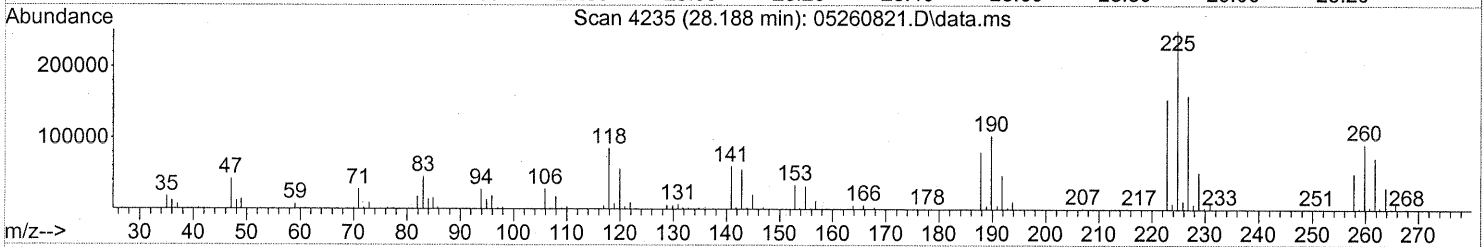
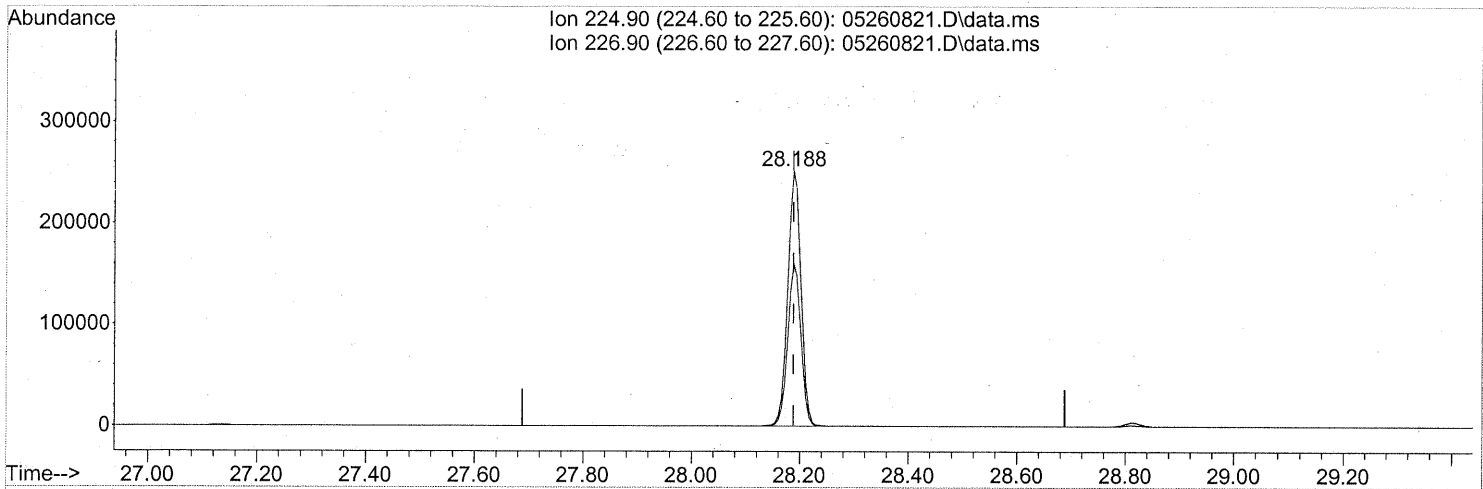
27.625min (+0.000) 0.29ng

response 13720

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	94.53
184.00	30.30	32.91
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:07 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

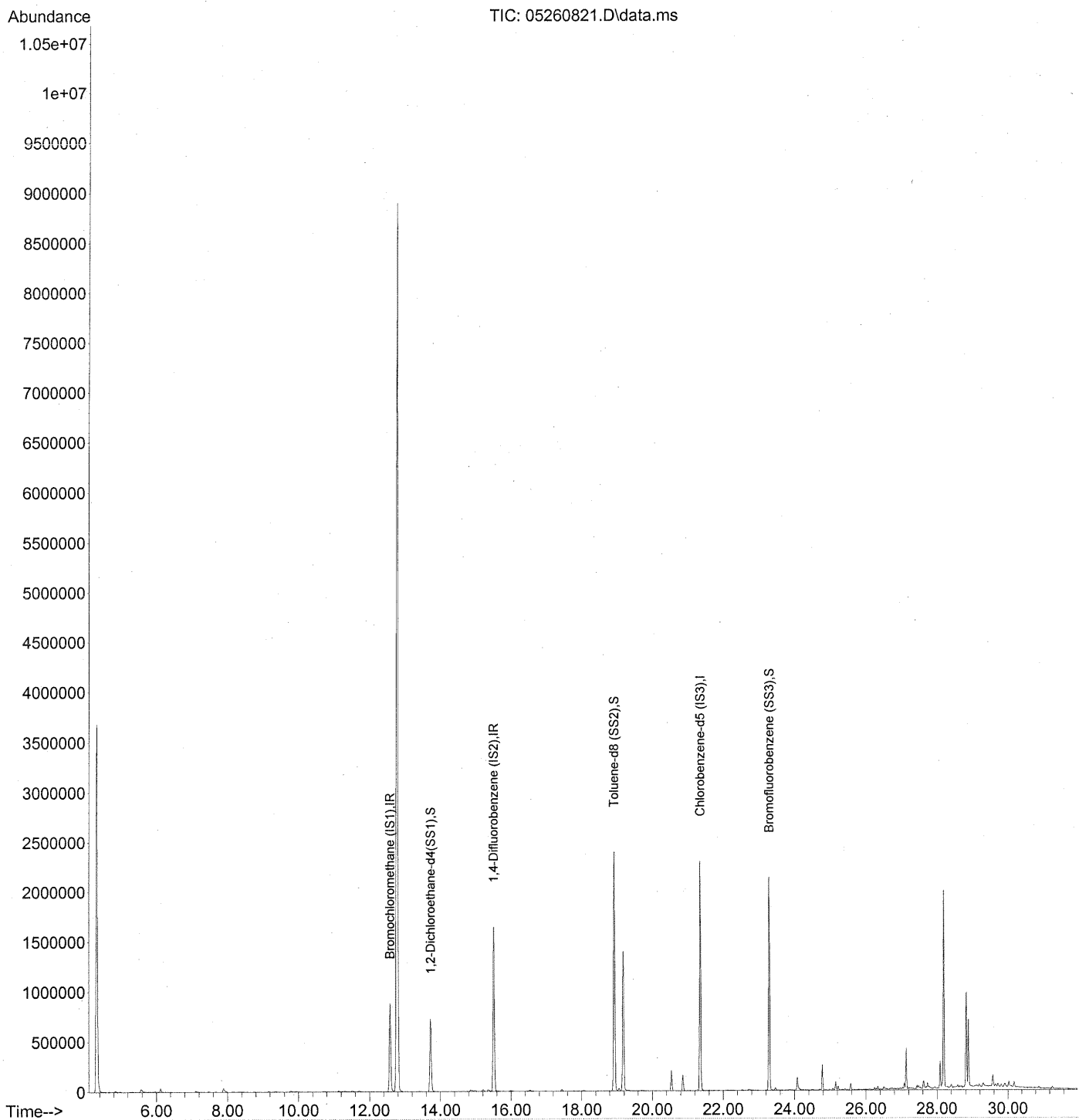
28.188min (+0.000) 13.50ng

response 428662

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	63.19
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25 am
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 13:02:37 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



537

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260821.D
 Acq On : 27 May 2008 1:25 am
 Operator : WA
 Sample : P0801483-010 (75ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

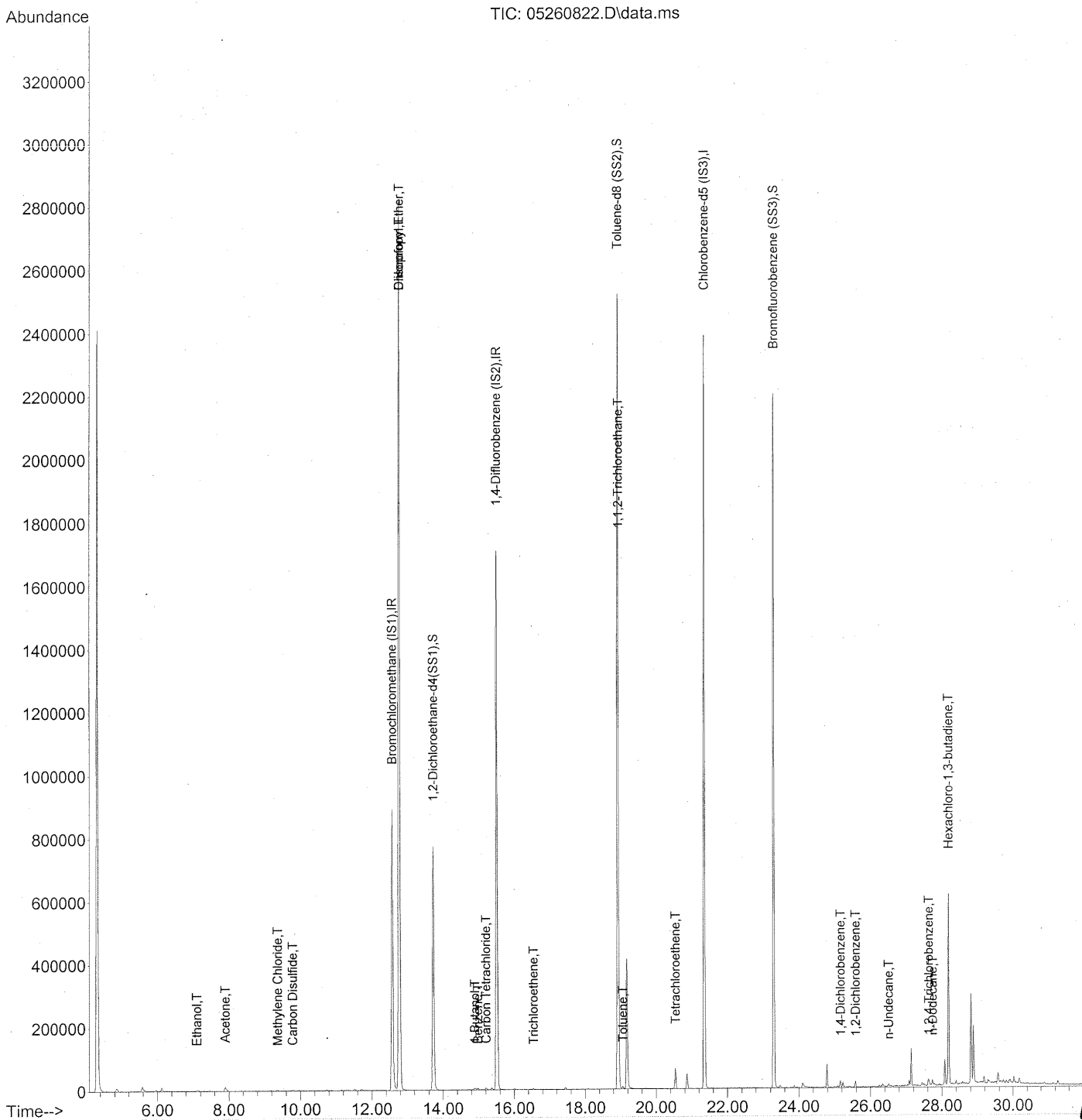
Quant Time: May 31 13:02:37 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) Bromochloromethane (IS1)	12.58	130	447794	25.000	ng	-0.02	
3) 1,4-Difluorobenzene (IS2)	15.51	114	1909931	25.000	ng	-0.02	
4) Chlorobenzene-d5 (IS3)	21.35	82	893874	25.000	ng	0.00	
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...)	13.72	65	747754	24.100	ng	-0.03	
Spiked Amount	25.000		Recovery	=	96.40%		
5) Toluene-d8 (SS2)	18.92	98	2020981	25.175	ng	-0.02	
Spiked Amount	25.000		Recovery	=	100.68%		
6) Bromofluorobenzene (SS3)	23.29	174	810869	24.839	ng	0.00	
Spiked Amount	25.000		Recovery	=	99.36%		
Target Compounds							Qvalue
7) tert-Butylbenzene	24.88	119	374		N.D.		
8) n-Butylbenzene	25.92	91	1650		N.D.		

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

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260822.D
 Acq On : 27 May 2008 2:06
 Operator : WA
 Sample : P0801483-010 Dil (25ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:13 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260822.D
 Acq On : 27 May 2008 2:06
 Operator : WA
 Sample : P0801483-010 Dil (25ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:13 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	459021	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1987046	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	916855	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4 (...)	13.72	65	788660	24.796	ng	0.00
Spiked Amount				25.000		
					Recovery =	99.20%
57) Toluene-d8 (SS2)	18.92	98	2094367	25.435	ng	0.00
Spiked Amount				25.000		
					Recovery =	101.72%
73) Bromofluorobenzene (SS3)	23.29	174	834579	24.924	ng	0.00
Spiked Amount				25.000		
					Recovery =	99.68%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	1535		N.D.	
3) Dichlorodifluoromethane	4.99	85	2358		N.D.	
4) Chloromethane	5.32	50	65		N.D.	
5) Freon 114	0.00	135	0		N.D.	
6) Vinyl Chloride	0.00	62	0		N.D.	
7) 1,3-Butadiene	5.94	54	71		N.D.	
8) Bromomethane	6.49	94	63		N.D.	
9) Chloroethane	6.84	64	53		N.D.	
10) Ethanol	7.10	45	6705	0.278	ng	88
11) Acetonitrile	7.47	41	3329		N.D.	
12) Acrolein	7.66	56	249		N.D.	
13) Acetone	7.89	58	8749	0.354	ng	88
14) Trichlorofluoromethane	8.15	101	314		N.D.	
15) Isopropanol	8.35	45	1859		N.D.	
16) Acrylonitrile	0.00	53	0		N.D.	
17) 1,1-Dichloroethene	9.17	96	491		N.D.	
18) tert-Butanol	9.31	59	114		N.D.	
19) Methylene Chloride	9.36	84	1709	0.062	ng	# 78
20) Allyl Chloride	0.00	41	0		N.D.	
21) Trichlorotrifluoroethane	0.00	151	0		N.D.	
22) Carbon Disulfide	9.78	76	8624	0.082	ng	87
23) trans-1,2-Dichloroethene	0.00	61	0		N.D.	
24) 1,1-Dichloroethane	0.00	63	0		N.D.	
25) Methyl tert-Butyl Ether	11.24	73	1075		N.D.	
26) Vinyl Acetate	11.34	86	81		N.D.	
27) 2-Butanone	11.71	72	375		N.D.	
28) cis-1,2-Dichloroethene	0.00	61	0		N.D.	
29) Diisopropyl Ether	12.78	87	301731	13.654	ng	# 1
30) Ethyl Acetate	0.00	61	0		N.D.	
31) n-Hexane	12.70	57	115		N.D.	

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260822.D
 Acq On : 27 May 2008 2:06
 Operator : WA
 Sample : P0801483-010 Dil (25ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:13 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	2953956	70.572	ng	99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.75	62	185	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	6054	0.222	ng	93
41) Benzene	14.98	78	5345	0.051	ng	94
42) Carbon Tetrachloride	15.21	117	5219	0.130	ng	97
43) Cyclohexane	15.41	84	75	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.46	83	1329	N.D.		
47) Trichloroethene	16.54	130	1668	0.052	ng	82
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.61	57	136	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.44	58	72	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	185786	7.226	ng	# 8
58) Toluene	19.06	91	7927	0.071	ng	97
59) 2-Hexanone	19.36	43	70	N.D.		
60) Dibromochloromethane	19.61	129	56	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.12	43	63	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.54	166	24326	0.734	ng	99
65) Chlorobenzene	21.41	112	1188	N.D.		
66) Ethylbenzene	21.89	91	404	N.D.		
67) m- & p-Xylene	22.10	91	1005	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.71	91	1253	N.D.		
71) n-Nonane	22.97	43	198	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.60	83	57	N.D.		
74) Cumene	23.48	105	68	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.10	91	59	N.D.		
77) 3-Ethyltoluene	24.24	105	968	N.D.		
78) 4-Ethyltoluene	24.29	105	288	N.D.		
79) 1,3,5-Trimethylbenzene	24.38	105	175	N.D.		

5/31/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260822.D
 Acq On : 27 May 2008 2:06
 Operator : WA
 Sample : P0801483-010 Dil (25ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:13 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.78	118	916		N.D.	
81) 2-Ethyltoluene	24.62	105	473		N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	1226		N.D.	
83) n-Decane	24.98	57	1041		N.D.	
84) Benzyl Chloride	24.88	91	200		N.D.	
85) 1,3-Dichlorobenzene	25.08	146	2760		N.D.	
86) 1,4-Dichlorobenzene	25.16	146	10013	0.147	ng	91
87) sec-Butylbenzene	25.40	105	938		N.D.	
88) p-Isopropyltoluene	25.39	119	255		N.D.	
89) 1,2,3-Trimethylbenzene	25.40	105	938		N.D.	
90) 1,2-Dichlorobenzene	25.58	146	8358	0.125	ng	92
91) d-Limonene	25.58	68	306		N.D.	
92) 1,2-Dibromo-3-Chloropr...	26.25	157	399		N.D.	
93) n-Undecane	26.50	57	3366	0.052	ng	# 75
94) 1,2,4-Trichlorobenzene	27.63	180	4524	0.092	ng	98
95) Naphthalene	27.78	128	3087		N.D.	
96) n-Dodecane	27.74	57	5889	0.091	ng	80
97) Hexachloro-1,3-butadiene	28.19	225	131304	4.032	ng	100

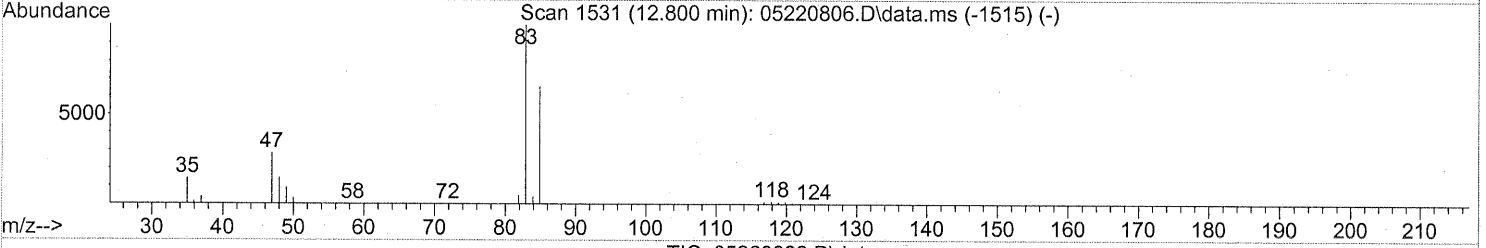
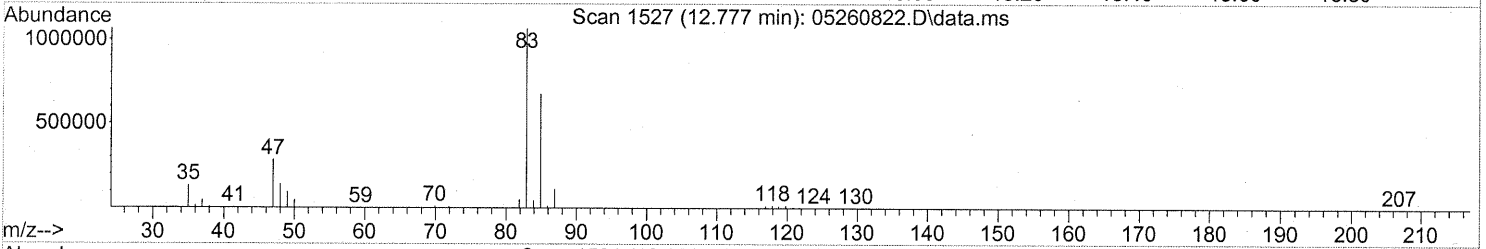
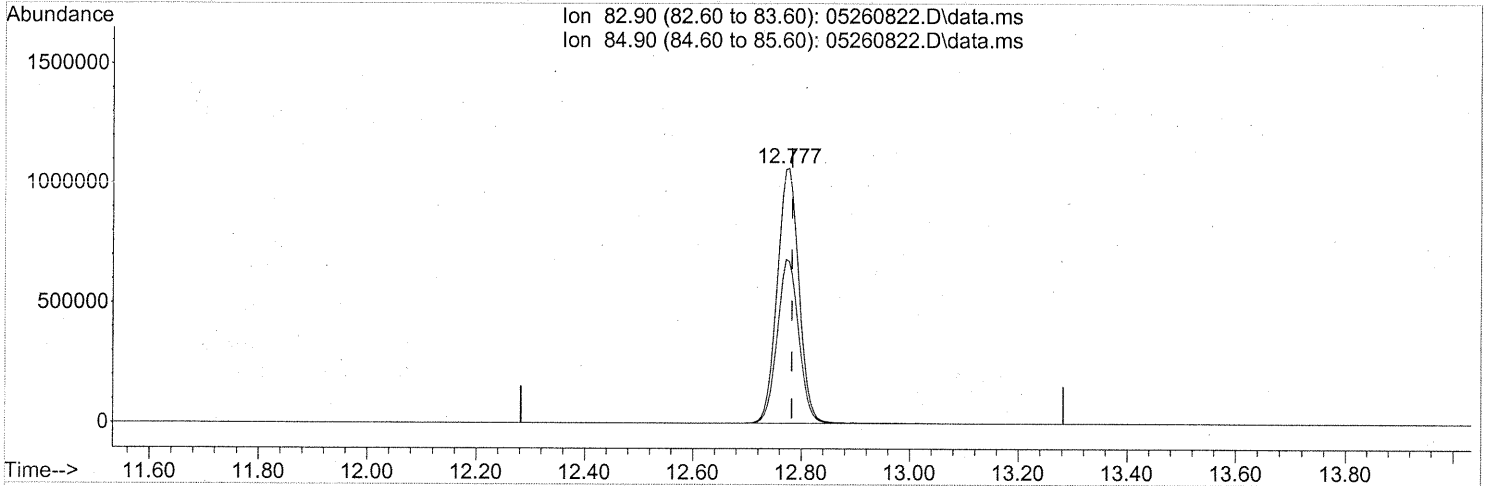
(#) = qualifier out of range (m) = manual integration (+) = signals summed

WA 5/31/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260822.D
 Acq On : 27 May 2008 2:06
 Operator : WA
 Sample : P0801483-010 Dil (25ml)
 Misc : ENSR SG86B-05 (-3.8, 3.5)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 27 06:14:13 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)
 12.777min (-0.006) 70.57ng
 response 2953956

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.64
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG28B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00702

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08 & 5/29/08
 Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	16	1.6	0.42	3.2	0.32	J
74-87-3	Chloromethane	ND	3.2	1.6	ND	1.5	0.77	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	16	1.6	ND	2.3	0.23	
75-01-4	Vinyl Chloride	ND	3.2	1.6	ND	1.2	0.62	
74-83-9	Bromomethane	ND	3.2	1.6	ND	0.82	0.41	
75-00-3	Chloroethane	ND	3.2	1.6	ND	1.2	0.60	
64-17-5	Ethanol	5.6	160	1.6	3.0	84	0.84	J
67-64-1	Acetone	24	160	2.3	10	67	0.98	J, B
75-69-4	Trichlorofluoromethane	ND	3.2	1.6	ND	0.57	0.28	
107-13-1	Acrylonitrile	ND	16	2.2	ND	7.3	1.0	
75-35-4	1,1-Dichloroethene	28	3.2	1.6	7.0	0.80	0.40	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	16	2.4	ND	5.2	0.78	
75-09-2	Methylene Chloride	ND	16	1.6	ND	4.6	0.46	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	3.2	1.6	ND	1.0	0.51	
76-13-1	Trichlorotrifluoroethane	ND	3.2	1.8	ND	0.42	0.23	
75-15-0	Carbon Disulfide	ND	16	3.8	ND	5.1	1.2	
156-60-5	trans-1,2-Dichloroethene	ND	3.2	1.6	ND	0.80	0.40	
75-34-3	1,1-Dichloroethane	ND	3.2	1.6	ND	0.79	0.39	
1634-04-4	Methyl tert-Butyl Ether	ND	3.2	1.6	ND	0.88	0.44	
108-05-4	Vinyl Acetate	ND	160	5.1	ND	45	1.4	
78-93-3	2-Butanone (MEK)	4.4	16	1.6	1.5	5.4	0.54	J
156-59-2	cis-1,2-Dichloroethene	ND	3.2	1.6	ND	0.80	0.40	
108-20-3	Diisopropyl Ether	ND	16	1.9	ND	3.8	0.45	
67-66-3	Chloroform	7,800	3.2	1.9	1,600	0.65	0.38	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG28B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00702

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08 & 5/29/08
 Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	16	1.6	ND	3.8	0.39	
107-06-2	1,2-Dichloroethane	ND	3.2	1.6	ND	0.79	0.39	
71-55-6	1,1,1-Trichloroethane	ND	3.2	1.6	ND	0.58	0.29	
71-43-2	Benzene	3.7	3.2	1.6	1.2	1.0	0.50	
56-23-5	Carbon Tetrachloride	24	3.2	1.6	3.8	0.51	0.25	
994-05-8	tert-Amyl Methyl Ether	ND	16	1.6	ND	3.8	0.38	
78-87-5	1,2-Dichloropropane	ND	3.2	1.6	ND	0.69	0.34	
75-27-4	Bromodichloromethane	ND	3.2	1.6	ND	0.47	0.24	
79-01-6	Trichloroethene	560	3.2	1.6	100	0.59	0.30	
123-91-1	1,4-Dioxane	ND	16	1.9	ND	4.4	0.54	
80-62-6	Methyl Methacrylate	ND	16	2.4	ND	3.9	0.58	
142-82-5	n-Heptane	ND	16	2.0	ND	3.9	0.50	
10061-01-5	cis-1,3-Dichloropropene	ND	16	1.7	ND	3.5	0.36	
108-10-1	4-Methyl-2-pentanone	ND	16	1.8	ND	3.9	0.43	
10061-02-6	trans-1,3-Dichloropropene	ND	16	2.0	ND	3.5	0.44	
79-00-5	1,1,2-Trichloroethane	ND	3.2	1.6	ND	0.58	0.29	
108-88-3	Toluene	2.1	16	1.6	0.55	4.2	0.42	J
591-78-6	2-Hexanone	ND	16	2.4	ND	3.9	0.59	
124-48-1	Dibromochloromethane	ND	3.2	2.2	ND	0.37	0.25	
106-93-4	1,2-Dibromoethane	ND	3.2	1.7	ND	0.41	0.22	
111-65-9	n-Octane	ND	16	1.6	ND	3.4	0.34	
127-18-4	Tetrachloroethene	42	3.2	1.6	6.2	0.47	0.23	
108-90-7	Chlorobenzene	ND	3.2	1.6	ND	0.69	0.35	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG28B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00702

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08 & 5/29/08
 Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	16	2.0	ND	3.7	0.45	
179601-23-1	m,p-Xylenes	ND	16	4.1	ND	3.7	0.95	
75-25-2	Bromoform	ND	16	2.4	ND	1.5	0.23	
100-42-5	Styrene	ND	16	2.4	ND	3.7	0.57	
95-47-6	o-Xylene	ND	16	2.0	ND	3.7	0.46	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.2	2.0	ND	0.46	0.30	
98-82-8	Cumene	ND	16	1.8	ND	3.2	0.36	
103-65-1	n-Propylbenzene	ND	16	1.7	ND	3.2	0.34	
622-96-8	4-Ethyltoluene	ND	16	1.8	ND	3.2	0.37	
108-67-8	1,3,5-Trimethylbenzene	ND	16	1.9	ND	3.2	0.39	
98-83-9	alpha-Methylstyrene	ND	16	2.3	ND	3.3	0.48	
95-63-6	1,2,4-Trimethylbenzene	ND	16	2.2	ND	3.2	0.45	
100-44-7	Benzyl Chloride	ND	3.2	2.7	ND	0.61	0.53	
541-73-1	1,3-Dichlorobenzene	ND	3.2	2.0	ND	0.53	0.33	
106-46-7	1,4-Dichlorobenzene	11	3.2	1.8	1.8	0.53	0.30	
135-98-8	sec-Butylbenzene	ND	16	1.8	ND	2.9	0.34	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	16	2.1	ND	2.9	0.38	
95-50-1	1,2-Dichlorobenzene	ND	3.2	2.1	ND	0.53	0.35	
96-12-8	1,2-Dibromo-3-chloropropane	ND	16	2.4	ND	1.6	0.25	
120-82-1	1,2,4-Trichlorobenzene	ND	3.2	2.4	ND	0.43	0.33	
91-20-3	Naphthalene	2.4	6.4	2.4	0.46	1.2	0.45	J
87-68-3	Hexachlorobutadiene	ND	3.2	2.9	ND	0.30	0.27	
98-06-6	tert-Butylbenzene	ND	6.4	1.6	ND	1.2	0.29	
104-51-8	n-Butylbenzene	ND	6.4	1.6	ND	1.2	0.29	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

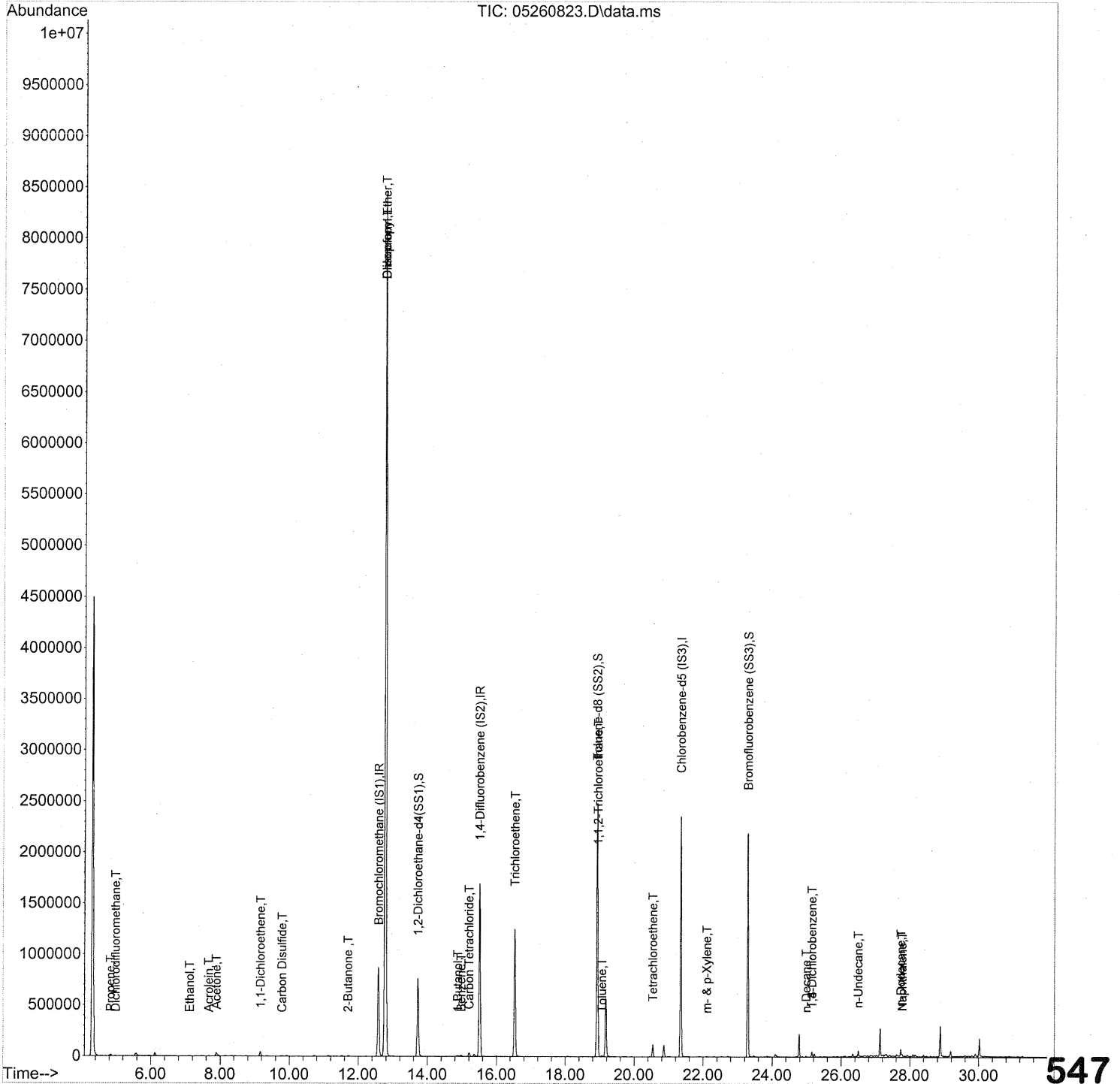
Verified By: CA

Date: 6/4/08

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 06:28:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
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 Sample : P0801483-011 (50ml)
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	447700	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1942165	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	907711	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	768704	24.780	ng	0.00	
Spiked Amount	25.000		Recovery	=	99.12%		✓
57) Toluene-d8 (SS2)	18.92	98	2067389	25.360	ng	0.00	
Spiked Amount	25.000		Recovery	=	101.44%		✓
73) Bromofluorobenzene (SS3)	23.29	174	823435	24.839	ng	0.00	
Spiked Amount	25.000		Recovery	=	99.36%		✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue	#
2) Propene	4.83	42	3307	0.094	ng		1
3) Dichlorodifluoromethane	4.99	85	4212	0.065	ng		98
4) Chloromethane	5.29	50	123	N.D.	✓		
5) Freon 114	0.00	135	0	N.D.	✓		
6) Vinyl Chloride	0.00	62	0	N.D.	✓		
7) 1,3-Butadiene	0.00	54	0	N.D.			
8) Bromomethane	0.00	94	0	N.D.	✓		
9) Chloroethane	0.00	64	0	N.D.	✓		
10) Ethanol	7.11	45	4160m	0.177	ng		
11) Acetonitrile	7.46	41	2567	N.D.			
12) Acrolein	7.67	56	1231	0.073	ng		67
13) Acetone	7.89	58	18226	0.756	ng		73
14) Trichlorofluoromethane	8.16	101	2098	N.D.	✓		
15) Isopropanol	8.35	45	2668	N.D.			
16) Acrylonitrile	0.00	53	0	N.D.	✓		
17) 1,1-Dichloroethene	9.17	96	21603	0.878	ng		79
18) tert-Butanol	9.31	59	927	N.D.	✓		
19) Methylene Chloride	9.35	84	564	N.D.	✓		
20) Allyl Chloride	9.40	41	56	N.D.	✓		
21) Trichlorotrifluoroethane	9.81	151	65	N.D.	✓		
22) Carbon Disulfide	9.78	76	7818	0.076	ng		80
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.	✓		
24) 1,1-Dichloroethane	11.11	63	1085	N.D.	✓		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	✓		
26) Vinyl Acetate	11.33	86	161	N.D.	✓		
27) 2-Butanone	11.70	72	2453	0.139	ng		80
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓		
29) Diisopropyl Ether	12.78	87	922621	42.805	ng NR		1
30) Ethyl Acetate	12.76	61	200	N.D.			
31) n-Hexane	12.70	57	204	N.D.			

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SA 5/31/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 06:28:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	8754261	214.435 ng	see dil	100
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.73	62	566	N.D. ✓		
38) 1,1,1-Trichloroethane	14.28	97	90	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.88	56	5070	0.190 ng	#	68
41) Benzene	14.98	78	11879	0.117 ng		97
42) Carbon Tetrachloride	15.21	117	29237	0.747 ng		98
43) Cyclohexane	15.42	84	92	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D. ✓		
45) 1,2-Dichloropropane	16.20	63	369	N.D. ✓		
46) Bromodichloromethane	16.46	83	1522	N.D. ✓		
47) Trichloroethene	16.53	130	551241	17.671 ng		100
48) 1,4-Dioxane	0.00	88	0	N.D. ✓		
49) Isooctane	16.62	57	3474	N.D.		
50) Methyl Methacrylate	16.54	100	455	N.D. ✓		
51) n-Heptane	0.00	71	0	N.D. ✓		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D. ✓		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	181158	7.209 ng	UR#	8
58) Toluene	19.07	91	7201	0.065 ng		95
59) 2-Hexanone	19.37	43	55	N.D. ✓		
60) Dibromochloromethane	0.00	129	0	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.22	43	67	N.D.		
63) n-Octane	0.00	57	0	N.D. ✓		
64) Tetrachloroethene	20.54	166	43031	1.312 ng		99
65) Chlorobenzene	21.40	112	3136	N.D. ✓		
66) Ethylbenzene	21.89	91	1881	N.D. ✓		
67) m- & p-Xylene	22.11	91	4390	0.052 ng		89
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	22.59	104	136	N.D. ✓		
70) o-Xylene	22.71	91	3155	N.D. ✓		
71) n-Nonane	22.97	43	269	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.43	83	123	N.D. ✓		
74) Cumene	23.46	105	82	N.D. ✓		
75) alpha-Pinene	23.97	93	119	N.D.		
76) n-Propylbenzene	24.10	91	726	N.D. ✓		
77) 3-Ethyltoluene	24.23	105	1167	N.D.		
78) 4-Ethyltoluene	24.28	105	695	N.D. ✓		
79) 1,3,5-Trimethylbenzene	24.37	105	733	N.D. ✓		

PT 5/31/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 06:28:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	61	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	623	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	2453	N.D.	✓	
83) n-Decane	24.98	57	3682	0.060	ng	93
84) Benzyl Chloride	24.92	91	56	N.D.	✓	
85) 1,3-Dichlorobenzene	25.16	146	23299	0.334	ng NR	98
86) 1,4-Dichlorobenzene	25.16	146	23299	0.345	ng	98
87) sec-Butylbenzene	25.40	105	1400	N.D.	✓	
88) p-Isopropyltoluene	25.40	119	808	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.40	105	1400	N.D.		
90) 1,2-Dichlorobenzene	25.57	146	402	N.D.	✓	
91) d-Limonene	25.58	68	1321	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	✓	
93) n-Undecane	26.50	57	19585	0.305	ng	71
94) 1,2,4-Trichlorobenzene	27.62	180	138	N.D.	✓	
95) Naphthalene	27.78	128	11100	0.075	ng	93
96) n-Dodecane	27.73	57	21479	0.336	ng #	69
97) Hexachloro-1,3-butadiene	28.18	225	478	N.D.	✓	

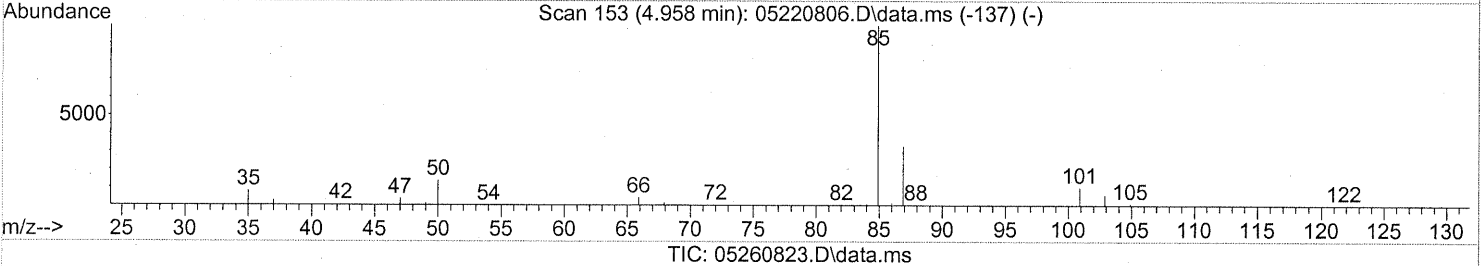
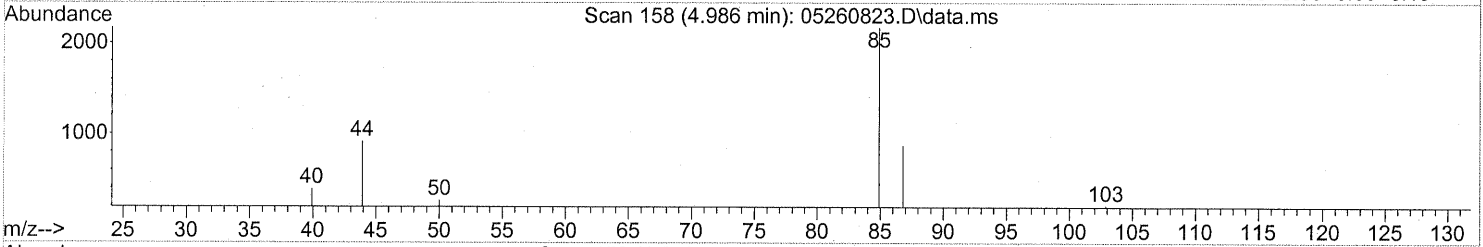
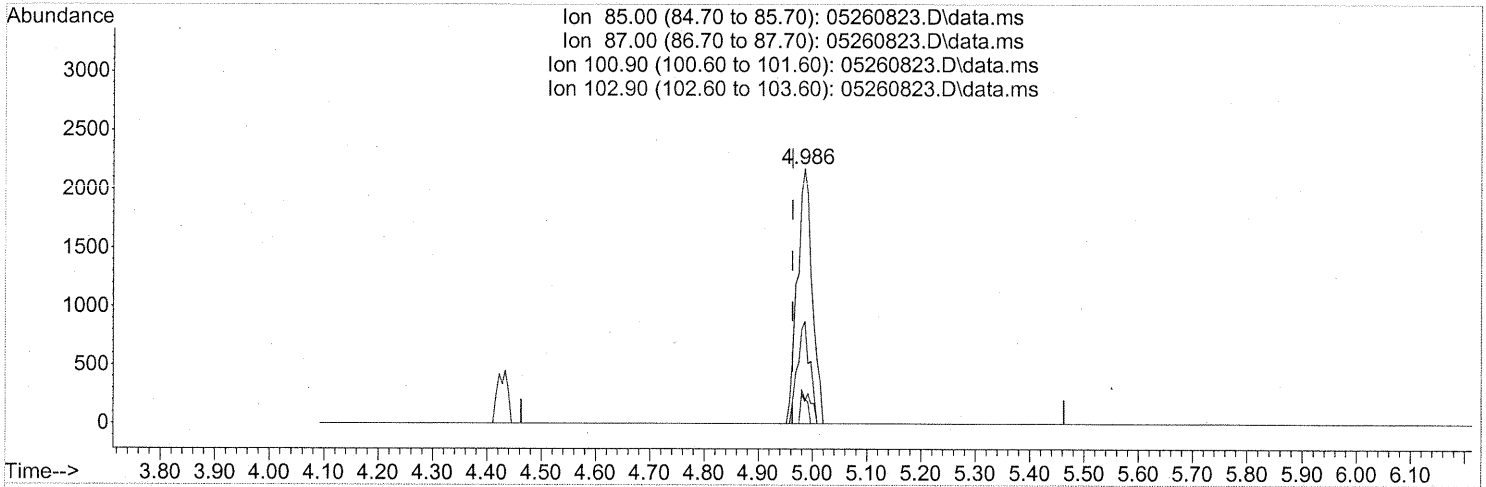
(#) = qualifier out of range (m) = manual integration (+) = signals summed

PA 5/31/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 27 06:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.986min (+0.023) 0.06ng

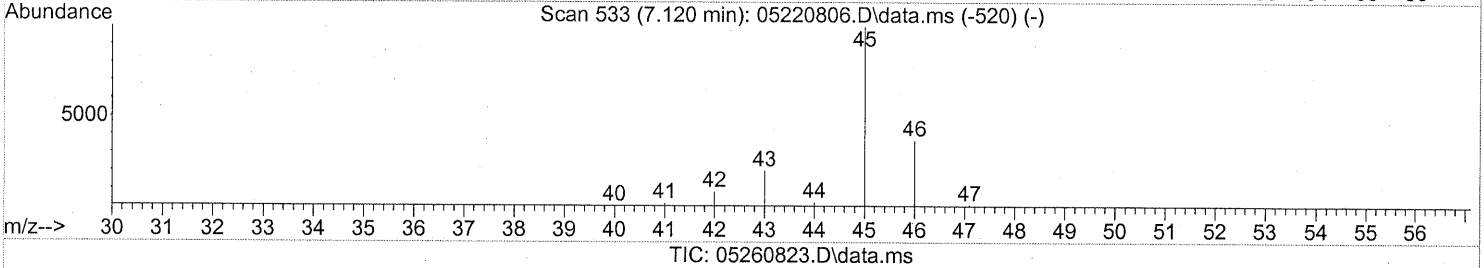
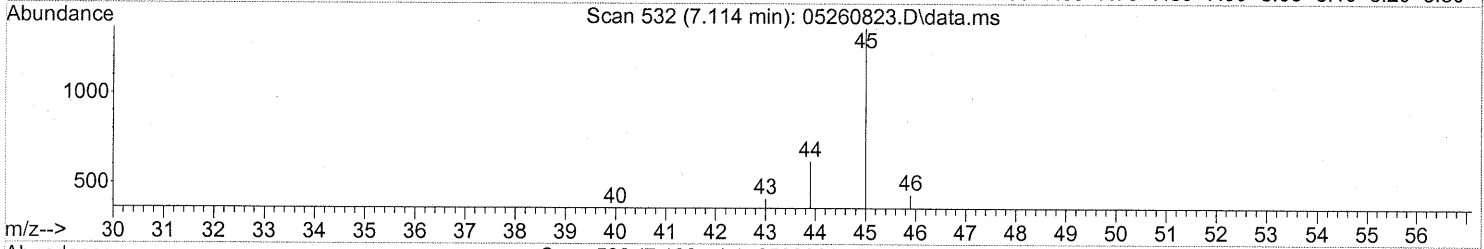
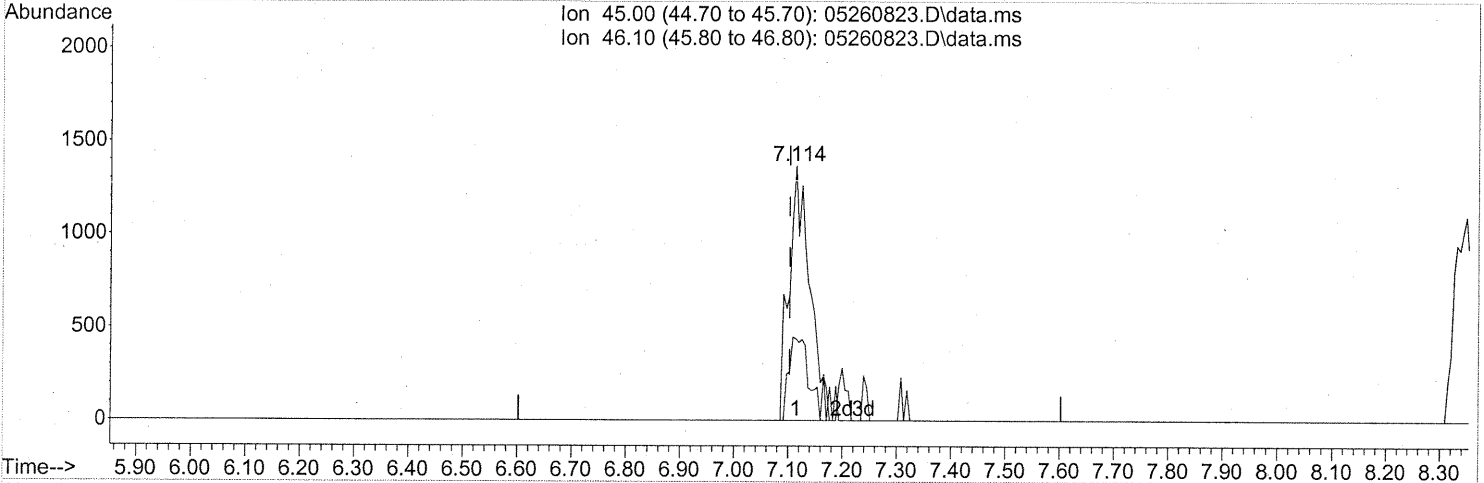
response 4212

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	33.31
100.90	9.30	8.36
102.90	6.00	5.48

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.114min (+0.011) 0.15ng

response 3617

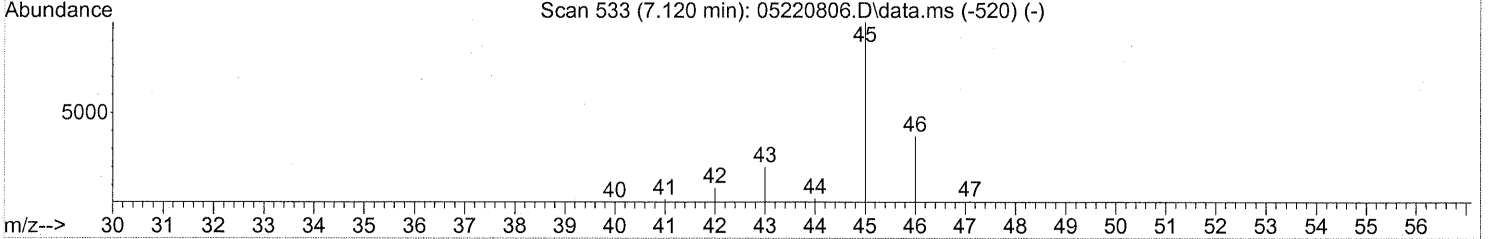
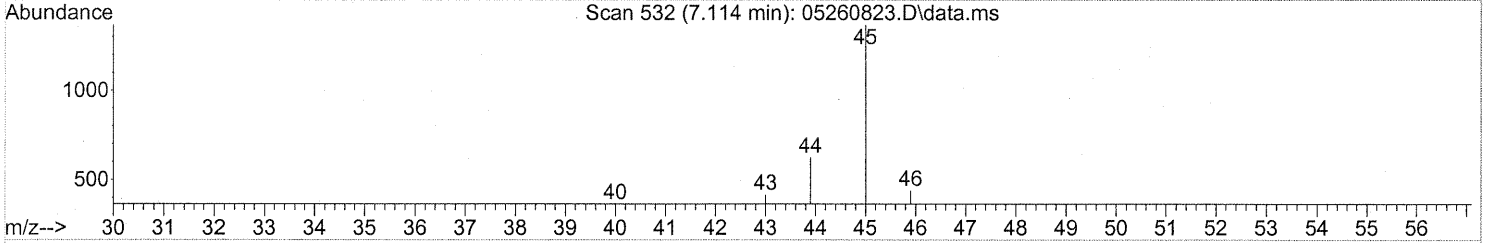
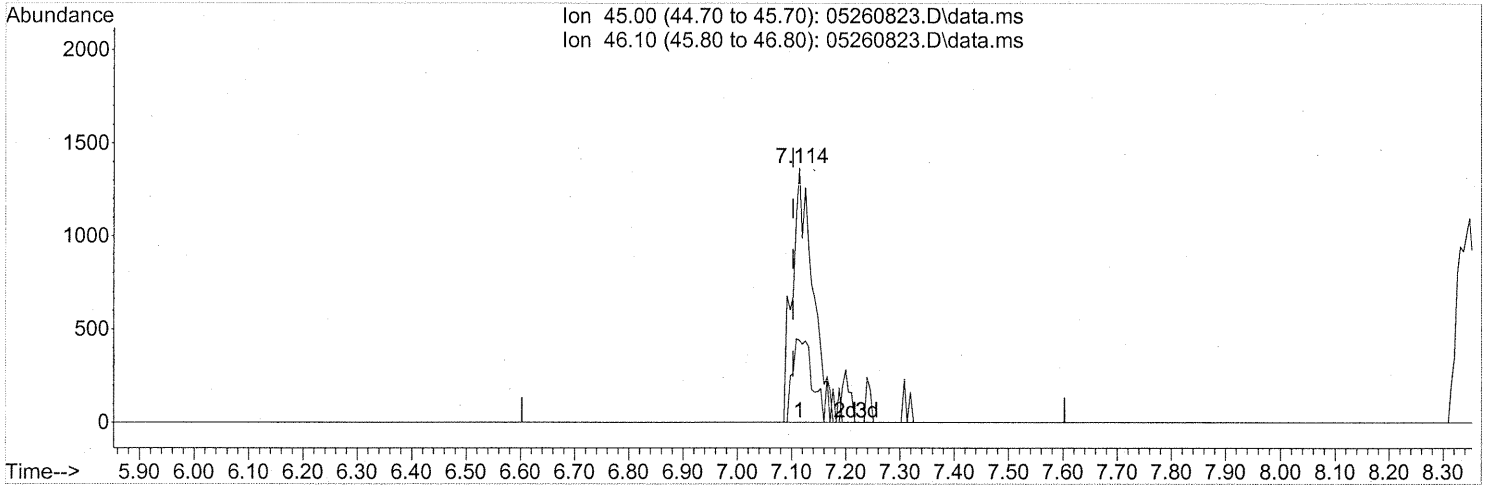
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	31.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.114min (+0.011) 0.18ng m

response 4160

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	27.33
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

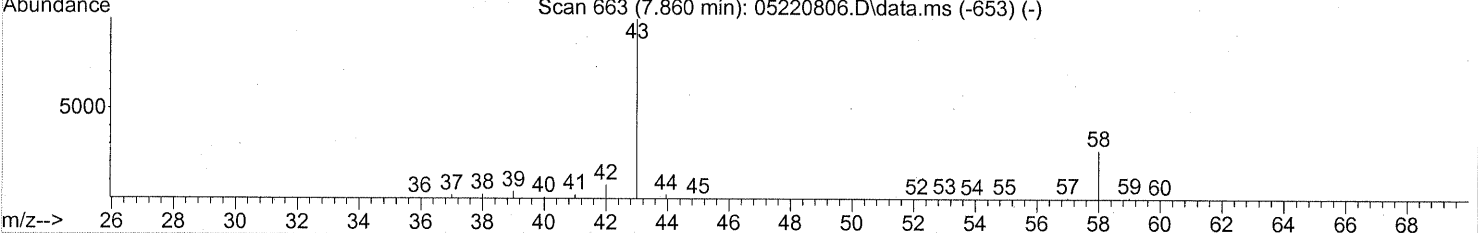
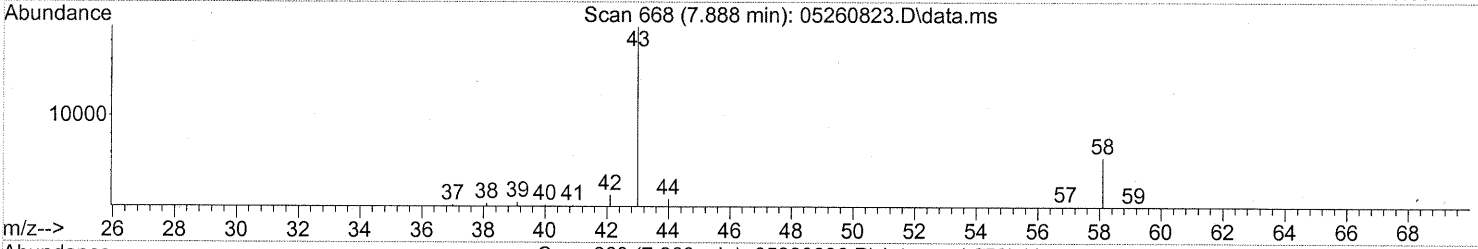
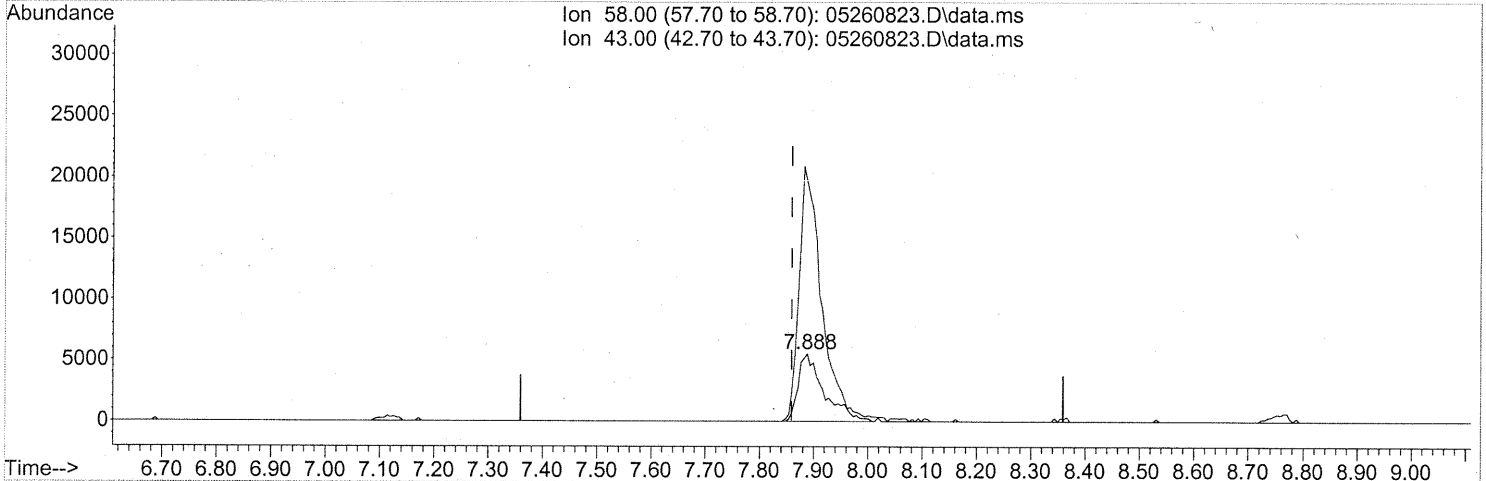
WA 5/31/08

P 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
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Quant Time: May 27 06:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



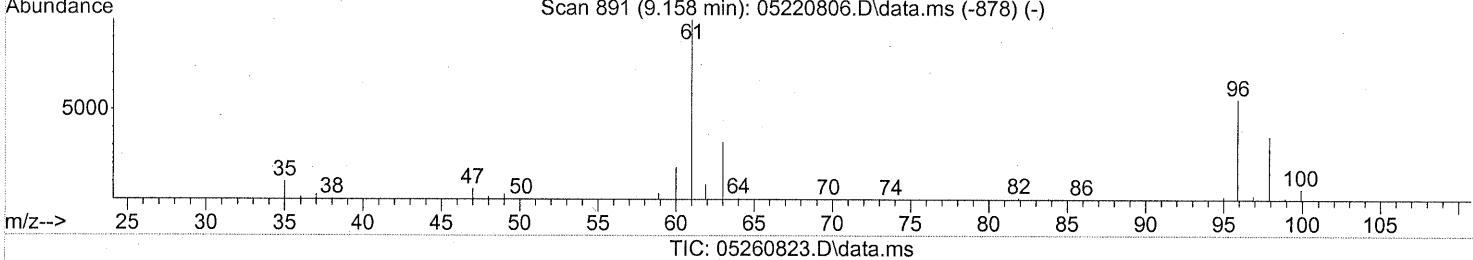
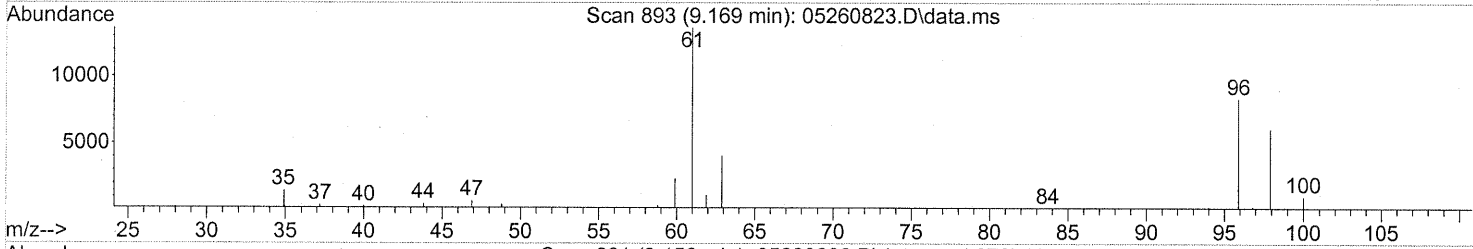
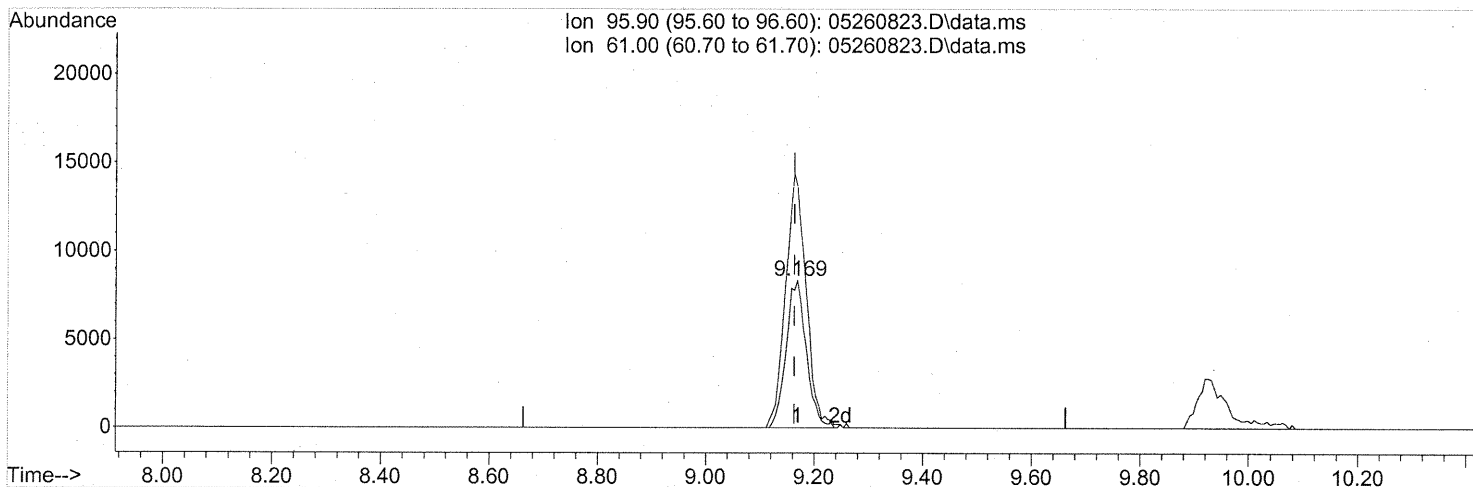
TIC: 05260823.D\data.ms

(13) Acetone (T)		
7.888min (+0.028)	0.76ng	
response	18226	
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	334.41#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260823.D
Acq On : 27 May 2008 2:47
Operator : WA
Sample : P0801483-011 (50ml)
Misc : ENSR SG28B-05 (-3.1, 3.7)
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.169min (+0.006) 0.88ng

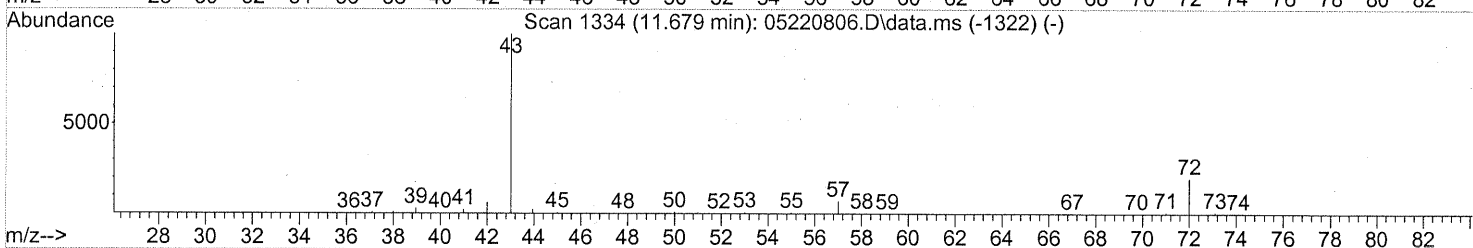
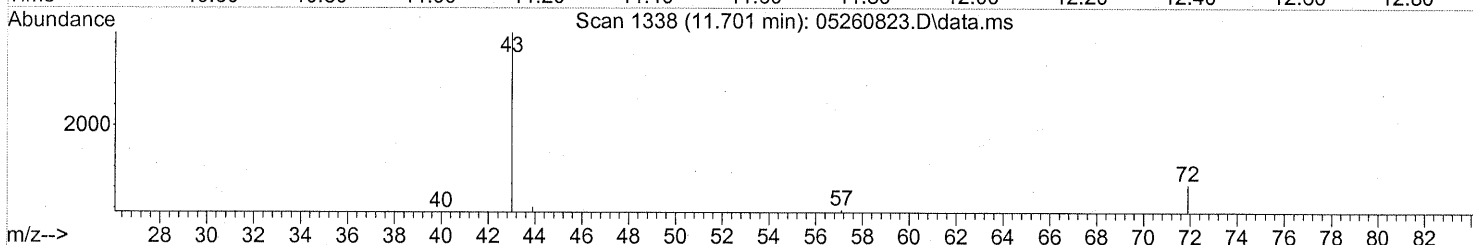
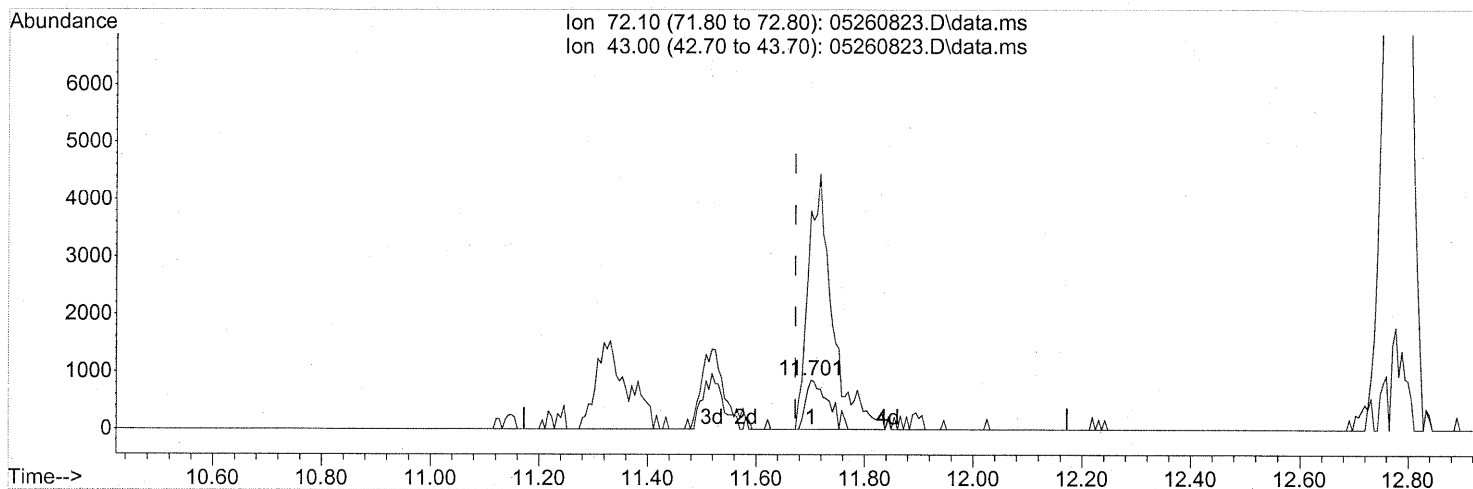
response 21603

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	176.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 05260823.D\data.ms

(27) 2-Butanone (T)

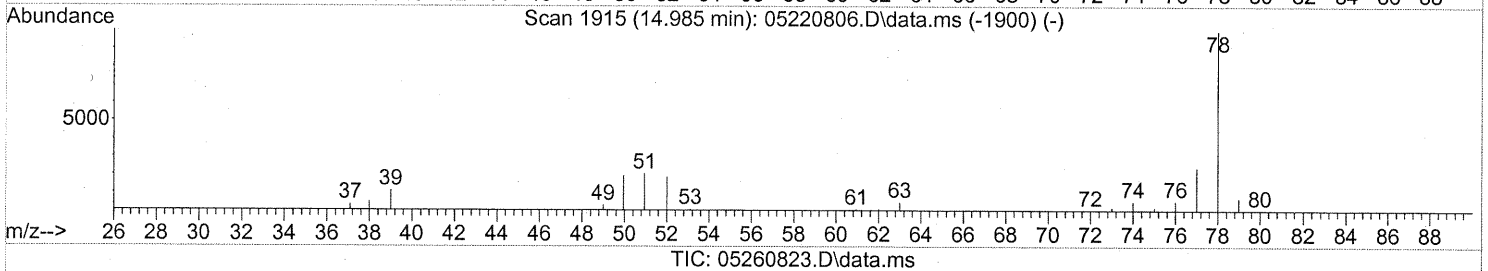
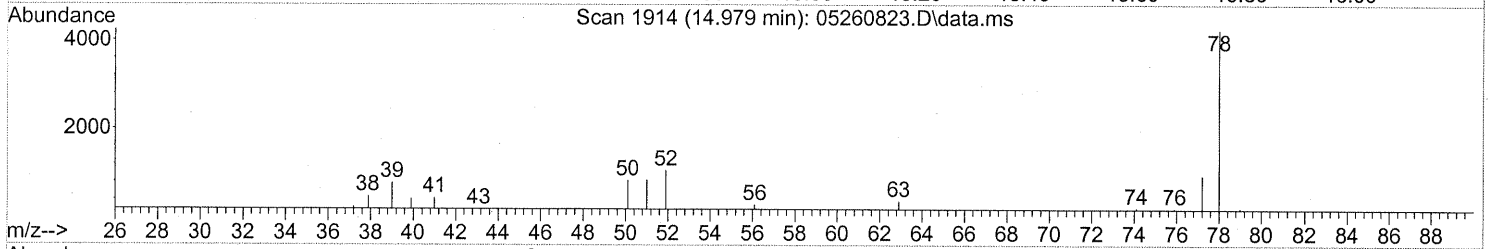
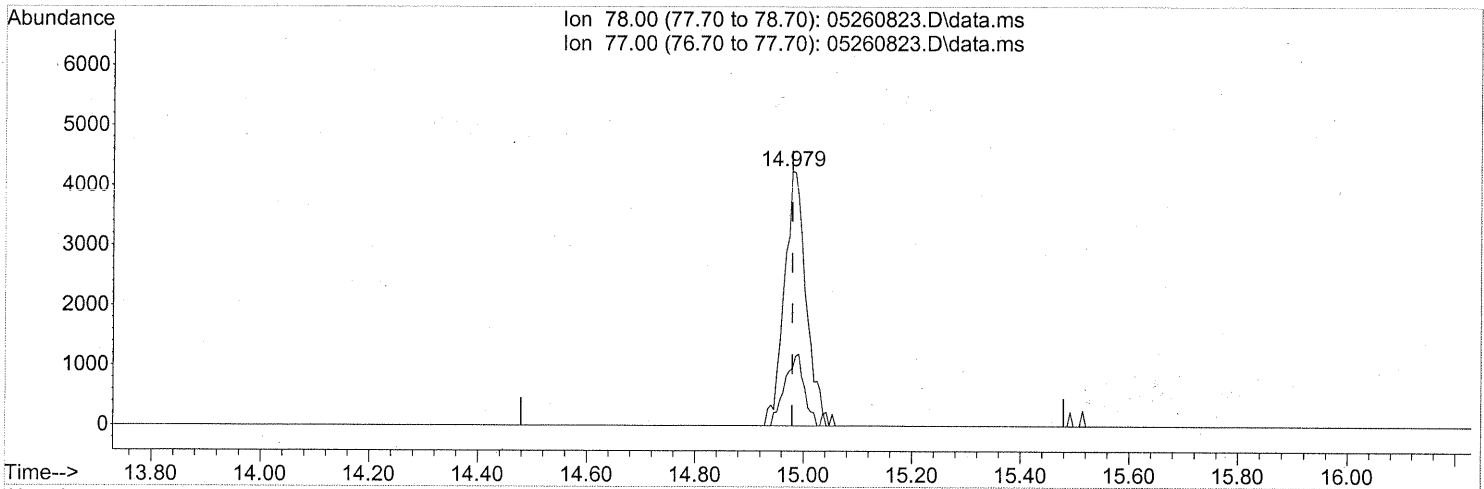
11.701min (+0.028) 0.14ng

response 2453

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	562.41#
0.00	0.00	0.00
0.00	0.00	0.00

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 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 27 06:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

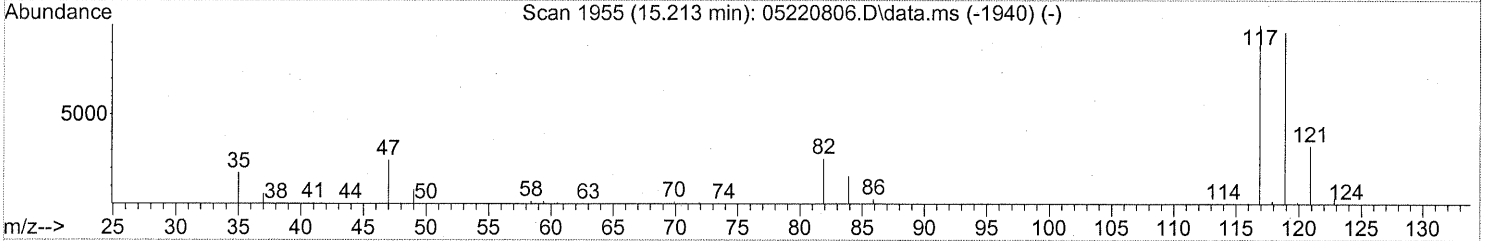
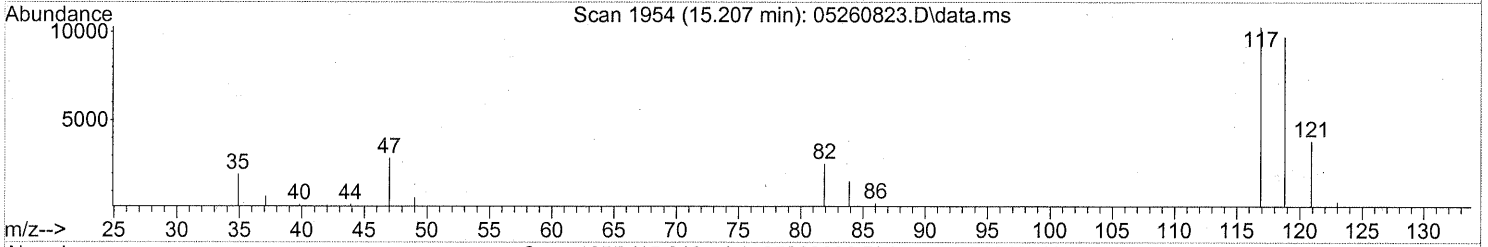
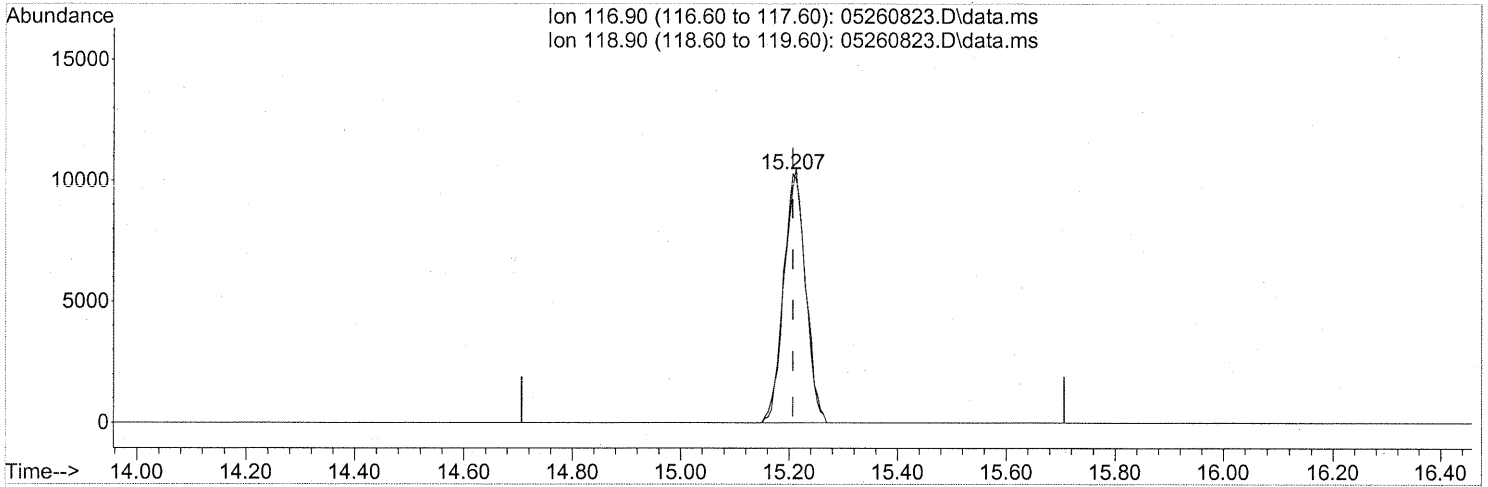


(41) Benzene (T)
 14.979min (-0.000) 0.12ng
 response 11879

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.77
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 27 06:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260823.D\data.ms

(42) Carbon Tetrachloride (T)

15.207min (-0.000) 0.75ng

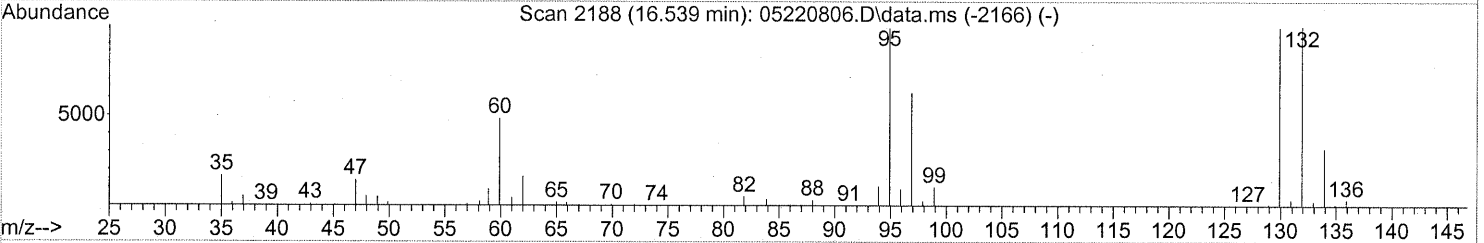
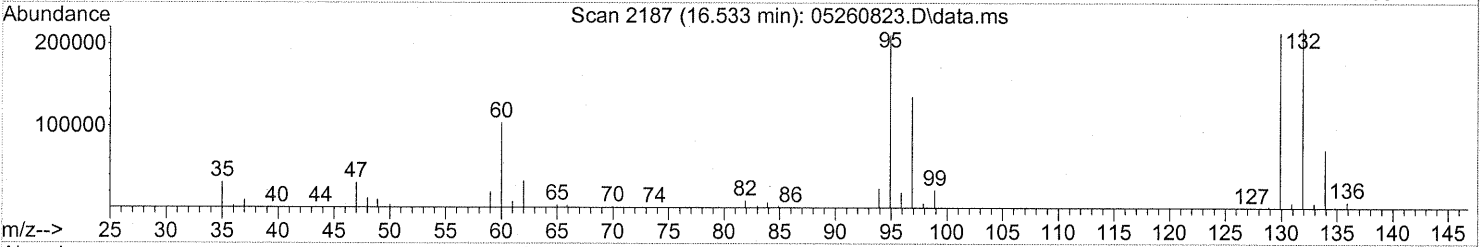
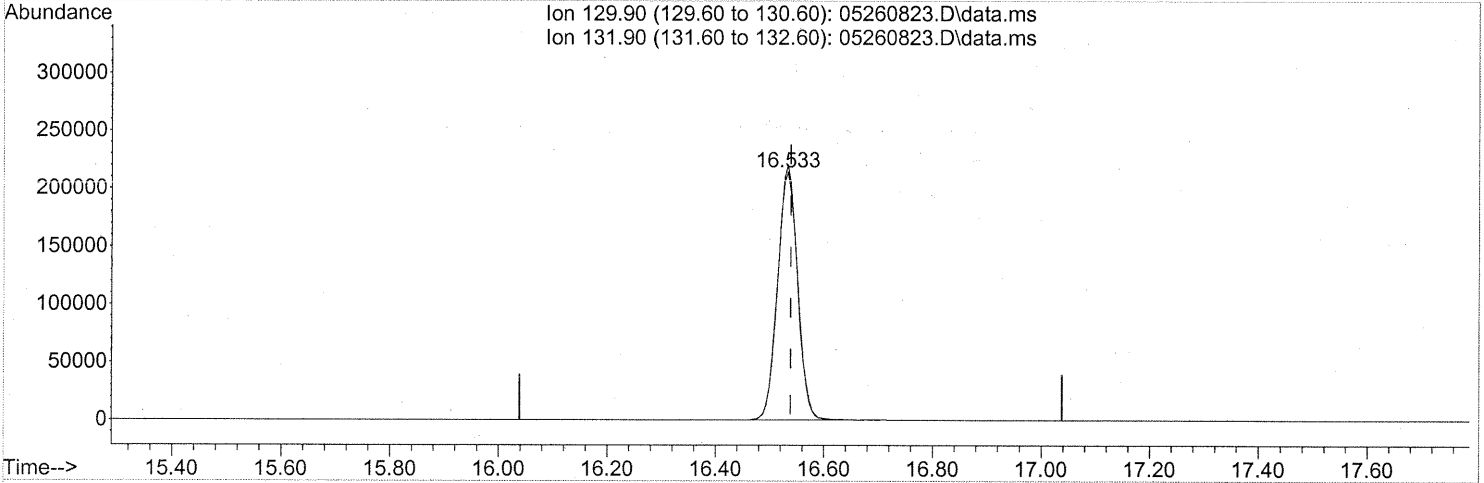
response 29237

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	98.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 27 06:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260823.D\data.ms

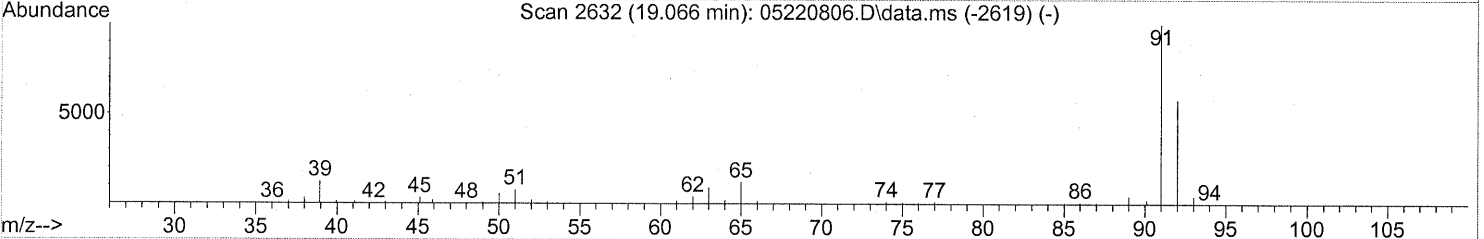
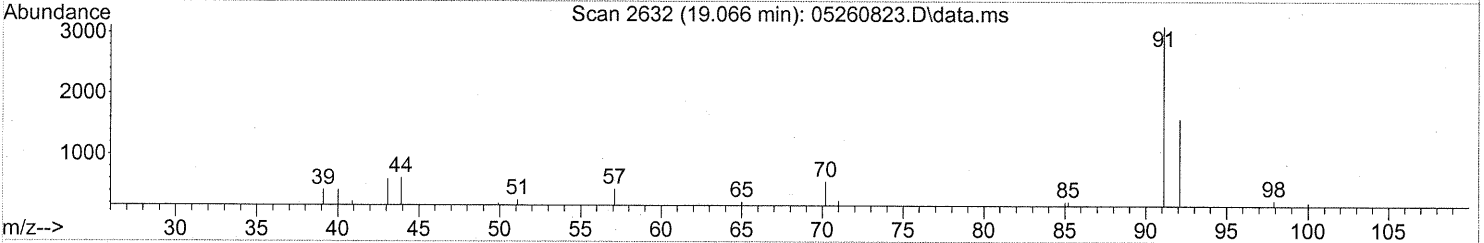
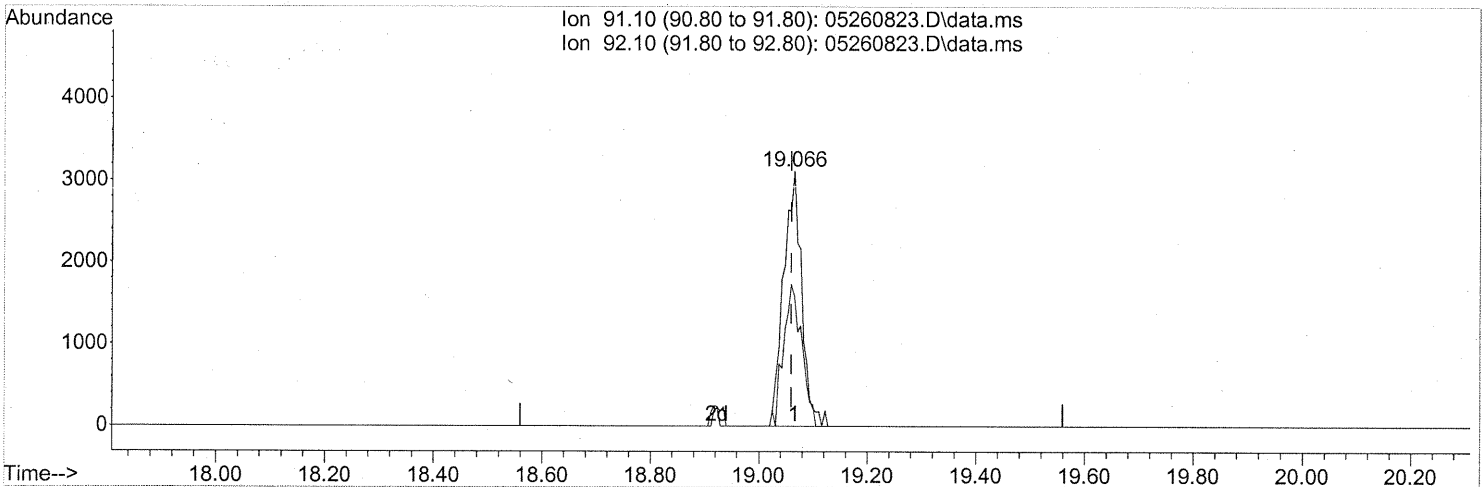
(47) Trichloroethene (T)
 16.533min (-0.006) 17.67ng
 response 551241

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 27 06:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(58) Toluene (T)

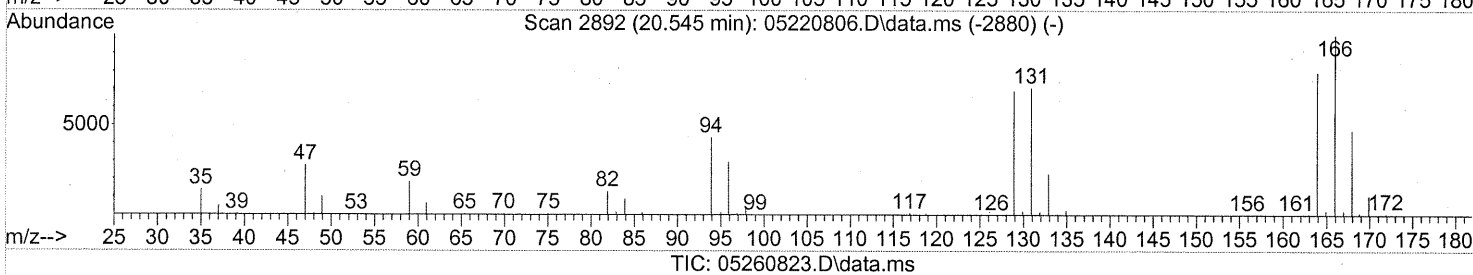
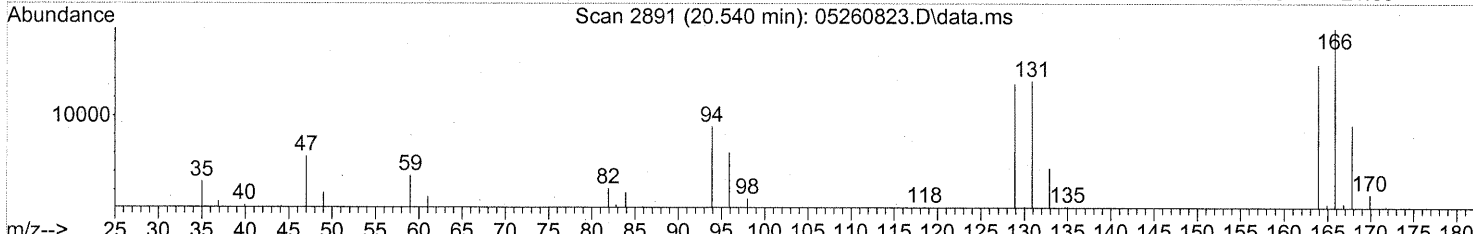
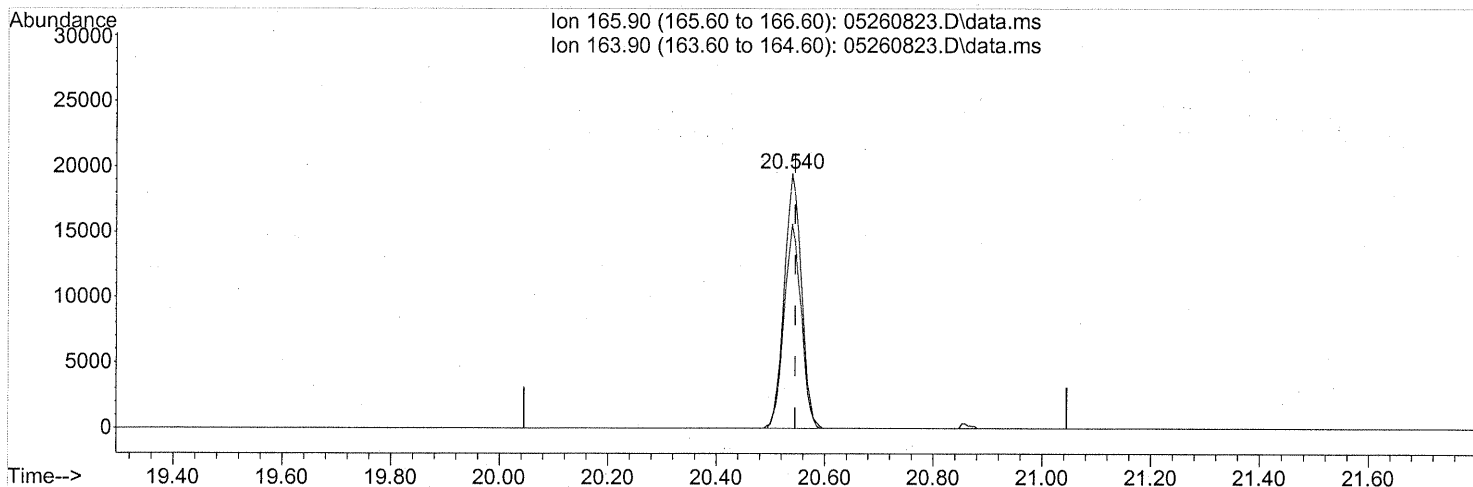
19.066min (+0.006) 0.06ng

response 7201

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	55.88
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 27 06:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 1.31ng

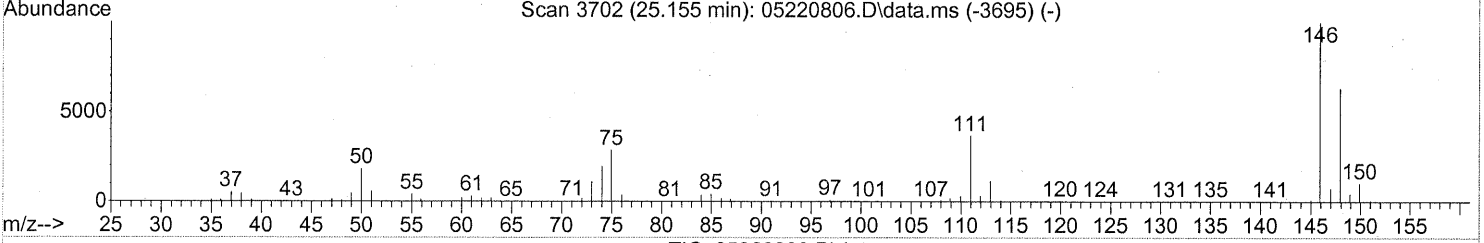
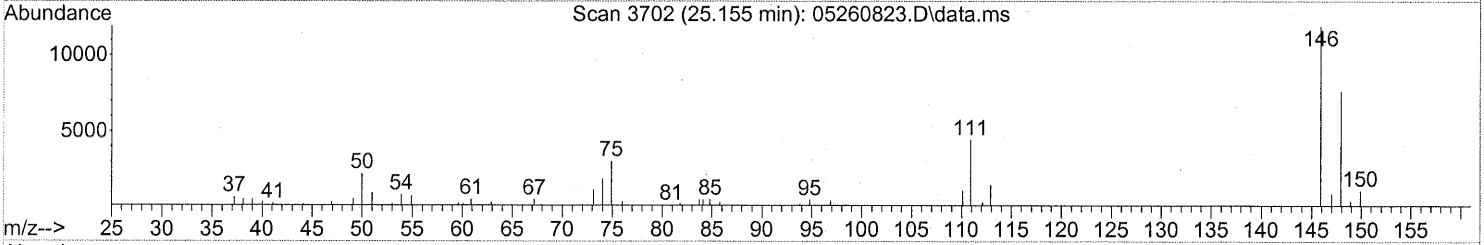
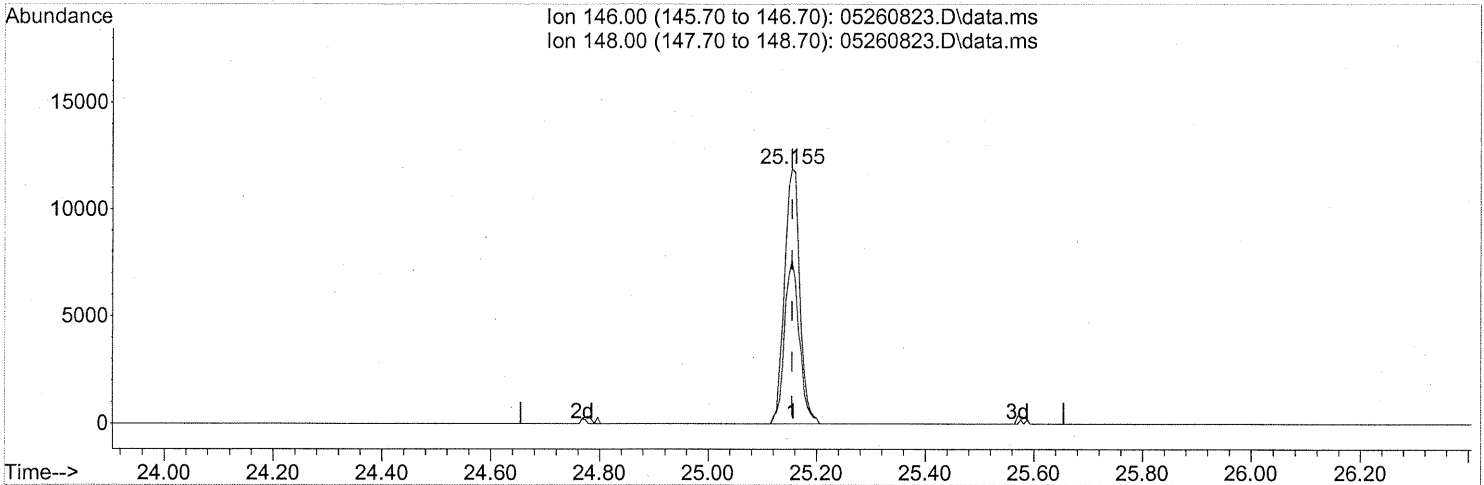
response 43031

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 27 06:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260823.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 0.34ng

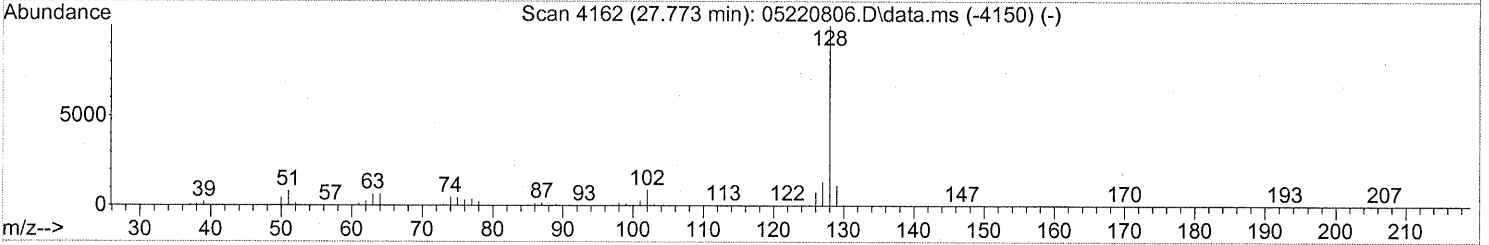
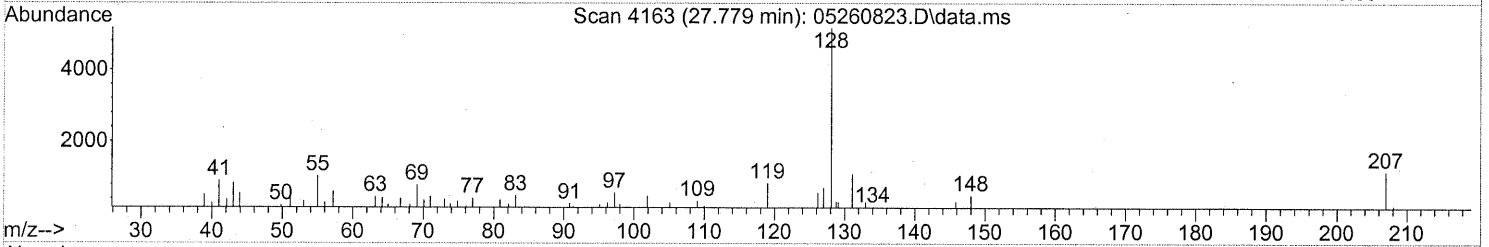
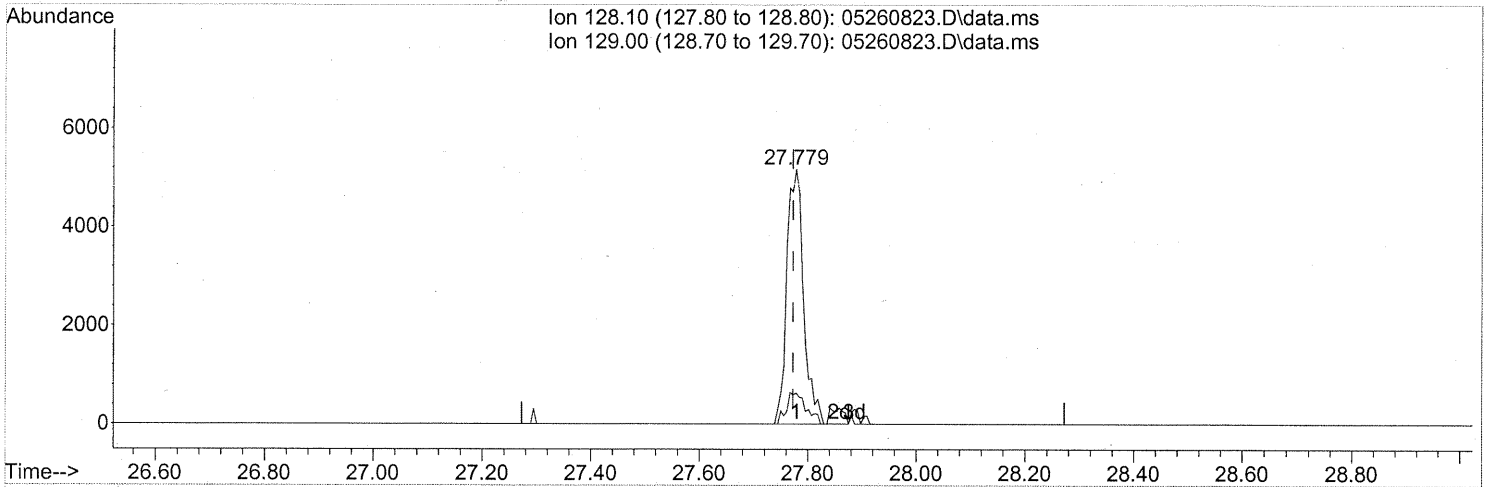
response 23299

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	62.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 27 06:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



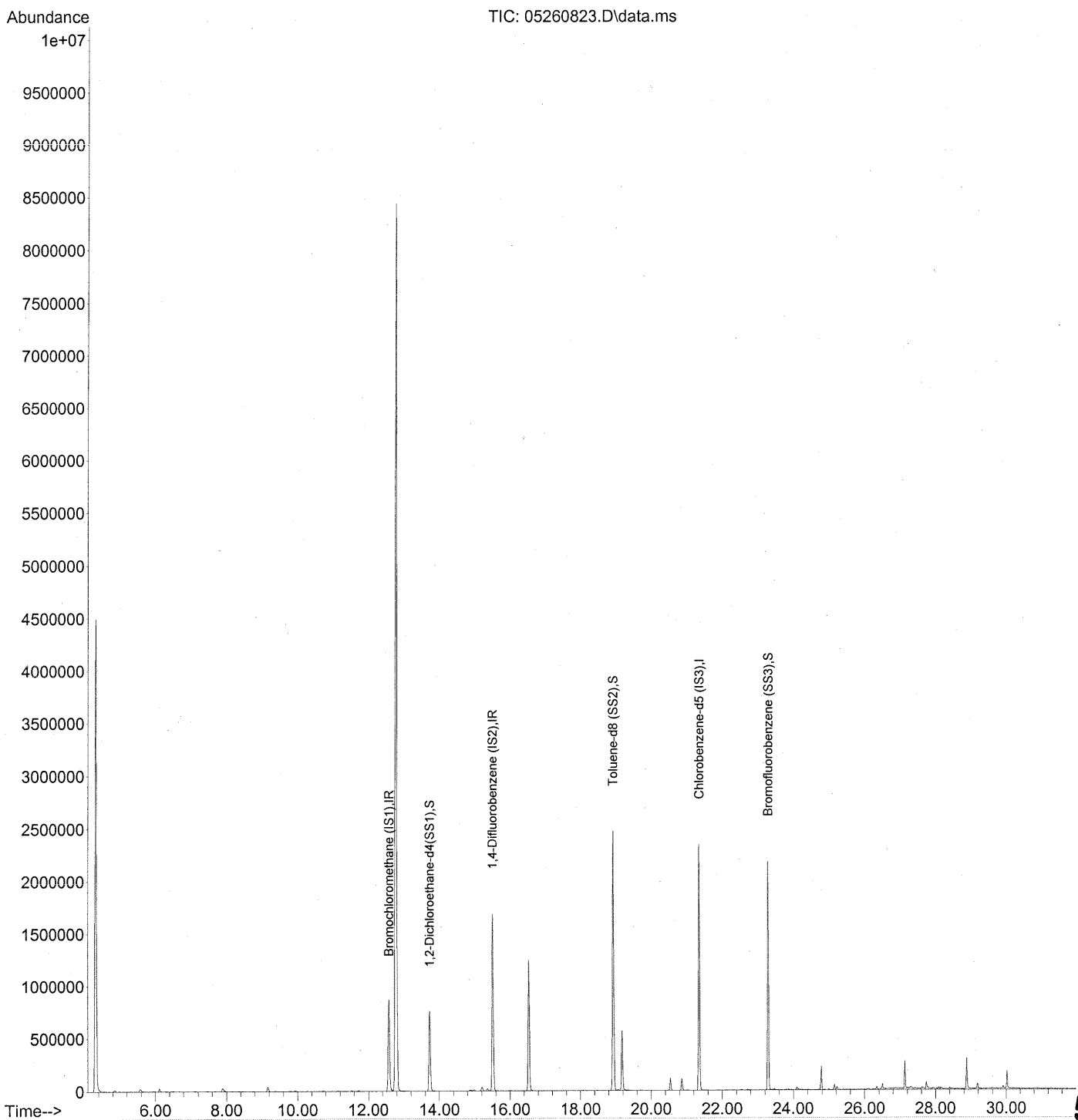
TIC: 05260823.D\data.ms

(95) Naphthalene (T)
 27.779min (+0.006) 0.08ng
 response 11100

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	14.42
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47 am
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 13:02:41 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260823.D
 Acq On : 27 May 2008 2:47 am
 Operator : WA
 Sample : P0801483-011 (50ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 11 Sample Multiplier: 1

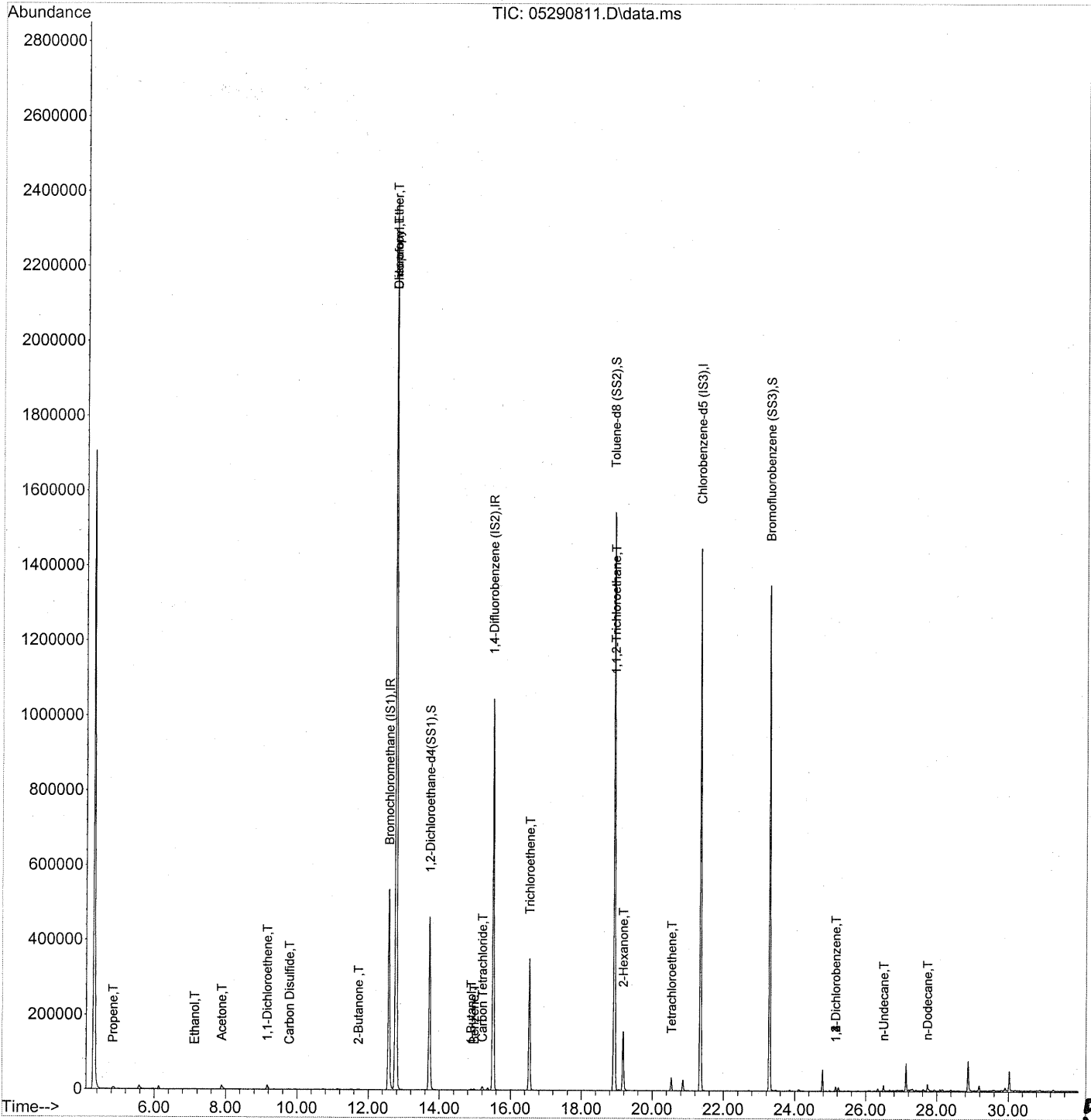
Quant Time: May 31 13:02:41 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	447700	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1942165	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	907711	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	768704	24.780	ng	-0.03
Spiked Amount	25.000		Recovery	=	99.12%	
5) Toluene-d8 (SS2)	18.92	98	2067389	25.360	ng	-0.02
Spiked Amount	25.000		Recovery	=	101.44%	
6) Bromofluorobenzene (SS3)	23.29	174	823435	24.839	ng	0.00
Spiked Amount	25.000		Recovery	=	99.36%	
Target Compounds						
7) tert-Butylbenzene	24.89	119	224		N.D.	Qvalue
8) n-Butylbenzene	25.91	91	1461		N.D.	

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

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290811.D
 Acq On : 29 May 2008 12:09
 Operator : WA
 Sample : P0801483-011 Dil (20ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 20:14:15 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290811.D
 Acq On : 29 May 2008 12:09
 Operator : WA
 Sample : P0801483-011 Dil (20ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 20:14:15 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	278758	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1211479	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	562185	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	475307	24.608	ng	0.00	
Spiked Amount	25.000		Recovery	=	98.44%		✓
57) Toluene-d8 (SS2)	18.92	98	1281931	25.390	ng	0.00	
Spiked Amount	25.000		Recovery	=	101.56%		✓
73) Bromofluorobenzene (SS3)	23.29	174	508147	24.750	ng	0.00	
Spiked Amount	25.000		Recovery	=	99.00%		✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	899	0.041	ng	# 1
3) Dichlorodifluoromethane	4.99	85	1484	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	1024	0.070	ng	# 46
11) Acetonitrile	7.47	41	373	N.D.		
12) Acrolein	7.68	56	70	N.D.		
13) Acetone	7.89	58	6459	0.430	ng	# 75
14) Trichlorofluoromethane	8.16	101	386	N.D.		
15) Isopropanol	8.35	45	511	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.16	96	6242	0.408	ng	# 72
18) tert-Butanol	9.31	59	56	N.D.		
19) Methylene Chloride	9.36	84	558	N.D.		
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	2733	0.043	ng	# 76
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.72	72	564	0.051	ng	# 45
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.77	87	253663	18.901	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

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WA 6/2/08

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290811.D
 Acq On : 29 May 2008 12:09
 Operator : WA
 Sample : P0801483-011 Dil (20ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 20:14:15 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	2502564	98.451	ng	99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.72	62	63	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	2729	0.164	ng	95
41) Benzene	14.98	78	4059	0.064	ng	90
42) Carbon Tetrachloride	15.21	117	8289	0.339	ng	99
43) Cyclohexane	15.38	84	66	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.45	83	157	N.D.		
47) Trichloroethene	16.53	130	159616	8.203	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.63	57	819	N.D.		
50) Methyl Methacrylate	16.54	100	79	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	110561	7.053	ng	# 7
58) Toluene	19.07	91	2190	N.D.		
59) 2-Hexanone	19.18	43	4981	0.105	ng	# 20
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.54	166	12658	0.623	ng	100
65) Chlorobenzene	21.42	112	957	N.D.		
66) Ethylbenzene	21.89	91	678	N.D.		
67) m- & p-Xylene	22.12	91	1193	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.72	91	892	N.D.		
71) n-Nonane	22.90	43	53	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.30	105	555	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.22	105	202	N.D.		
78) 4-Ethyltoluene	24.28	105	54	N.D.		
79) 1,3,5-Trimethylbenzene	24.37	105	51	N.D.		

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Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290811.D
 Acq On : 29 May 2008 12:09
 Operator : WA
 Sample : P0801483-011 Dil (20ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 3 Sample Multiplier: 1

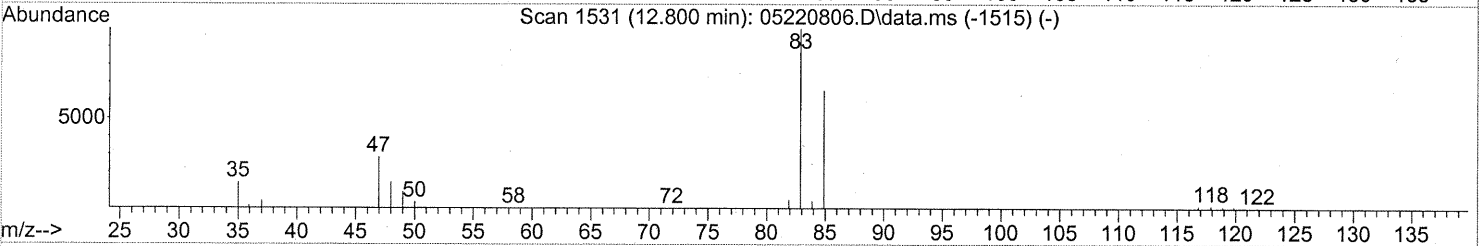
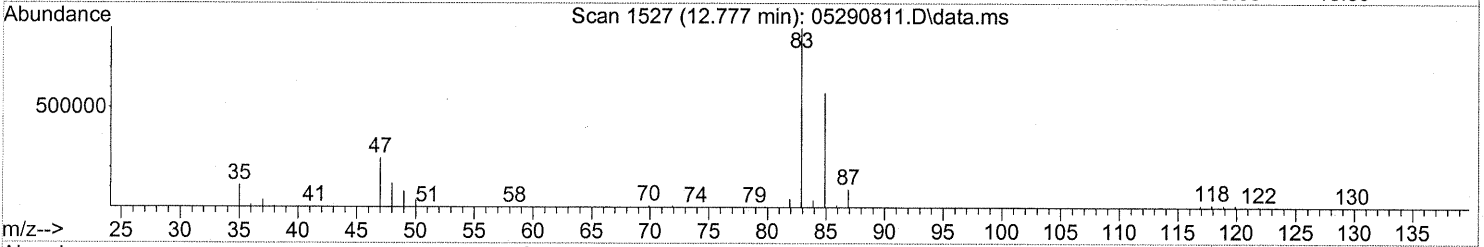
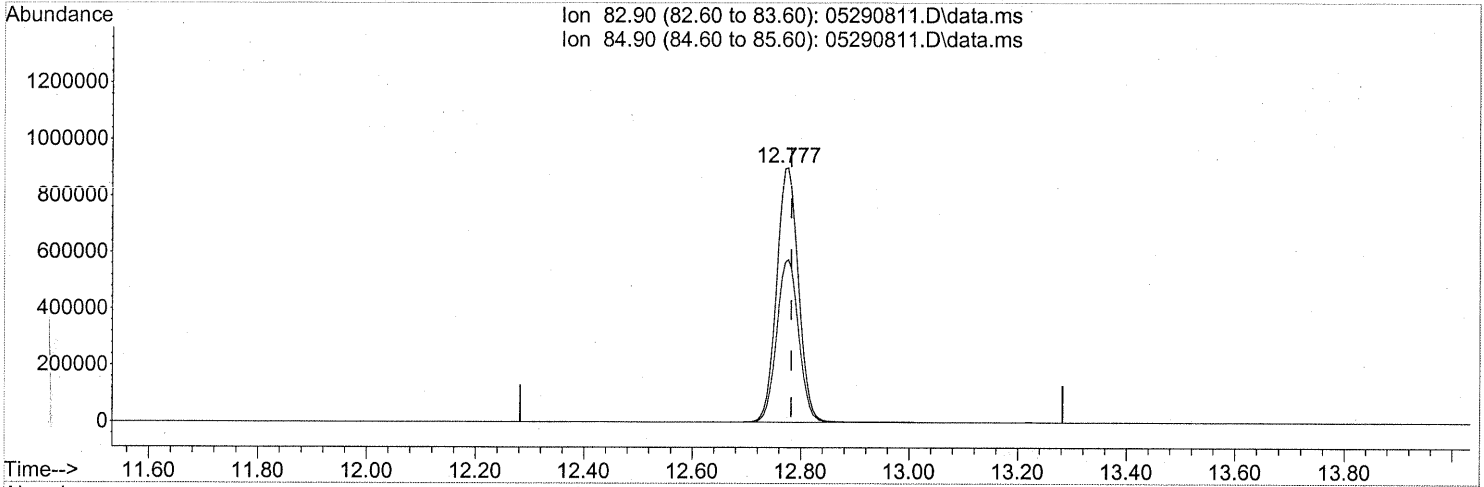
Quant Time: May 29 20:14:15 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.77	118	731	N.D.		
81) 2-Ethyltoluene	24.78	105	57	N.D.		
82) 1,2,4-Trimethylbenzene	24.89	105	668	N.D.		
83) n-Decane	24.99	57	750	N.D.		
84) Benzyl Chloride	24.88	91	57	N.D.		
85) 1,3-Dichlorobenzene	25.15	146	6432	0.149	ng	94
86) 1,4-Dichlorobenzene	25.15	146	6432	0.154	ng	94
87) sec-Butylbenzene	25.39	105	198	N.D.		
88) p-Isopropyltoluene	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	25.39	105	198	N.D.		
90) 1,2-Dichlorobenzene	25.15	146	6432	0.157	ng	95
91) d-Limonene	25.59	68	110	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.50	57	5927	0.149	ng	88
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.78	128	3507	N.D.		
96) n-Dodecane	27.73	57	6969	0.176	ng	92
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

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

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290811.D
 Acq On : 29 May 2008 12:09
 Operator : WA
 Sample : P0801483-011 Dil (20ml)
 Misc : ENSR SG28B-05 (-3.1, 3.7)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 20:14:15 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05290811.D\data.ms

(32) Chloroform (T)
 12.777min (-0.006) 98.45ng
 response 2502564

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.14
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG62B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-012

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00624

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.020 Liter(s)
 0.0050 Liter(s)

Initial Pressure (psig): -2.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	39	3.9	ND	7.8	0.78	
74-87-3	Chloromethane	ND	7.7	3.9	ND	3.7	1.9	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	39	3.9	ND	5.5	0.55	
75-01-4	Vinyl Chloride	ND	7.7	3.9	ND	3.0	1.5	
74-83-9	Bromomethane	ND	7.7	3.9	ND	2.0	0.99	
75-00-3	Chloroethane	ND	7.7	3.9	ND	2.9	1.5	
64-17-5	Ethanol	9.2	390	3.9	4.9	200	2.0	J
67-64-1	Acetone	35	390	5.6	15	160	2.4	J, B
75-69-4	Trichlorofluoromethane	ND	7.7	3.9	ND	1.4	0.69	
107-13-1	Acrylonitrile	ND	39	5.4	ND	18	2.5	
75-35-4	1,1-Dichloroethene	ND	7.7	3.9	ND	1.9	0.97	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	39	5.7	ND	13	1.9	
75-09-2	Methylene Chloride	ND	39	3.9	ND	11	1.1	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	7.7	3.9	ND	2.5	1.2	
76-13-1	Trichlorotrifluoroethane	ND	7.7	4.3	ND	1.0	0.56	
75-15-0	Carbon Disulfide	ND	39	9.2	ND	12	3.0	
156-60-5	trans-1,2-Dichloroethene	ND	7.7	3.9	ND	1.9	0.97	
75-34-3	1,1-Dichloroethane	ND	7.7	3.9	ND	1.9	0.95	
1634-04-4	Methyl tert-Butyl Ether	ND	7.7	3.9	ND	2.1	1.1	
108-05-4	Vinyl Acetate	ND	390	12	ND	110	3.5	
78-93-3	2-Butanone (MEK)	6.5	39	3.9	2.2	13	1.3	J
156-59-2	cis-1,2-Dichloroethene	ND	7.7	3.9	ND	1.9	0.97	
108-20-3	Diisopropyl Ether	ND	39	4.5	ND	9.2	1.1	
67-66-3	Chloroform	13,000	7.7	4.5	2,700	1.6	0.93	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Cat

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG62B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-012

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00624

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.020 Liter(s)
 0.0050 Liter(s)

Initial Pressure (psig): -2.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	39	3.9	ND	9.2	0.94	
107-06-2	1,2-Dichloroethane	ND	7.7	3.9	ND	1.9	0.95	
71-55-6	1,1,1-Trichloroethane	ND	7.7	3.9	ND	1.4	0.71	
71-43-2	Benzene	ND	7.7	3.9	ND	2.4	1.2	
56-23-5	Carbon Tetrachloride	1,200	7.7	3.9	200	1.2	0.61	
994-05-8	tert-Amyl Methyl Ether	ND	39	3.9	ND	9.2	0.92	
78-87-5	1,2-Dichloropropane	ND	7.7	3.9	ND	1.7	0.83	
75-27-4	Bromodichloromethane	ND	7.7	3.9	ND	1.1	0.57	
79-01-6	Trichloroethene	ND	7.7	3.9	ND	1.4	0.72	
123-91-1	1,4-Dioxane	ND	39	4.7	ND	11	1.3	
80-62-6	Methyl Methacrylate	ND	39	5.8	ND	9.4	1.4	
142-82-5	n-Heptane	ND	39	4.9	ND	9.4	1.2	
10061-01-5	cis-1,3-Dichloropropene	ND	39	4.0	ND	8.5	0.88	
108-10-1	4-Methyl-2-pentanone	ND	39	4.3	ND	9.4	1.1	
10061-02-6	trans-1,3-Dichloropropene	ND	39	4.9	ND	8.5	1.1	
79-00-5	1,1,2-Trichloroethane	ND	7.7	3.9	ND	1.4	0.71	
108-88-3	Toluene	ND	39	3.9	ND	10	1.0	
591-78-6	2-Hexanone	ND	39	5.9	ND	9.4	1.4	
124-48-1	Dibromochloromethane	ND	7.7	5.2	ND	0.90	0.61	
106-93-4	1,2-Dibromoethane	ND	7.7	4.2	ND	1.0	0.54	
111-65-9	n-Octane	ND	39	3.9	ND	8.2	0.82	
127-18-4	Tetrachloroethene	19	7.7	3.9	2.9	1.1	0.57	
108-90-7	Chlorobenzene	ND	7.7	3.9	ND	1.7	0.85	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG62B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-012

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00624

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.020 Liter(s)
 0.0050 Liter(s)

Initial Pressure (psig): -2.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	39	4.8	ND	8.9	1.1	
179601-23-1	m,p-Xylenes	ND	39	10	ND	8.9	2.3	
75-25-2	Bromoform	ND	39	5.9	ND	3.7	0.57	
100-42-5	Styrene	ND	39	5.9	ND	9.0	1.4	
95-47-6	o-Xylene	ND	39	4.9	ND	8.9	1.1	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.7	4.9	ND	1.1	0.72	
98-82-8	Cumene	ND	39	4.3	ND	7.8	0.88	
103-65-1	n-Propylbenzene	ND	39	4.0	ND	7.8	0.81	
622-96-8	4-Ethyltoluene	ND	39	4.4	ND	7.8	0.89	
108-67-8	1,3,5-Trimethylbenzene	ND	39	4.6	ND	7.8	0.94	
98-83-9	alpha-Methylstyrene	ND	39	5.6	ND	8.0	1.2	
95-63-6	1,2,4-Trimethylbenzene	ND	39	5.3	ND	7.8	1.1	
100-44-7	Benzyl Chloride	ND	7.7	6.6	ND	1.5	1.3	
541-73-1	1,3-Dichlorobenzene	ND	7.7	4.8	ND	1.3	0.79	
106-46-7	1,4-Dichlorobenzene	6.4	7.7	4.3	1.1	1.3	0.72	J
135-98-8	sec-Butylbenzene	ND	39	4.5	ND	7.0	0.81	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	39	5.0	ND	7.0	0.91	
95-50-1	1,2-Dichlorobenzene	ND	7.7	5.1	ND	1.3	0.85	
96-12-8	1,2-Dibromo-3-chloropropane	ND	39	5.9	ND	4.0	0.61	
120-82-1	1,2,4-Trichlorobenzene	ND	7.7	5.9	ND	1.0	0.79	
91-20-3	Naphthalene	ND	15	5.7	ND	2.9	1.1	
87-68-3	Hexachlorobutadiene	ND	7.7	6.9	ND	0.72	0.65	
98-06-6	tert-Butylbenzene	ND	15	3.9	ND	2.8	0.70	
104-51-8	n-Butylbenzene	ND	15	3.9	ND	2.8	0.70	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

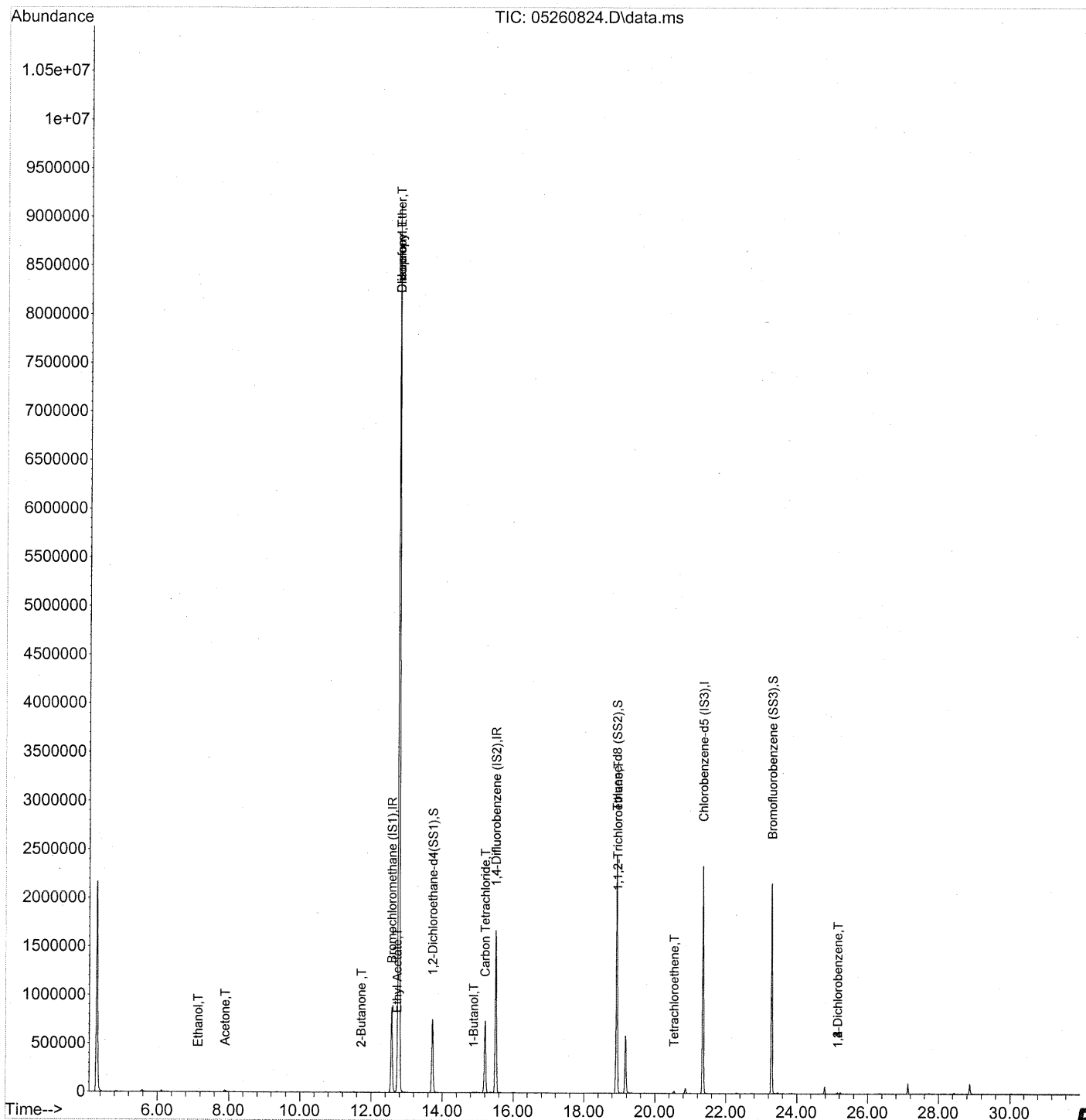
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27
 Operator : WA
 Sample : P0801483-012 (20ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 06:32:00 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27
 Operator : WA
 Sample : P0801483-012 (20ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	449032	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1922962	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	906926	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.72	65	758528	24.380	ng	0.00	
Spiked Amount	25.000		Recovery	=	97.52%		✓
57) Toluene-d8 (SS2)	18.92	98	2040186	25.048	ng	0.00	
Spiked Amount	25.000		Recovery	=	100.20%		✓
73) Bromofluorobenzene (SS3)	23.29	174	822201	24.823	ng	0.00	
Spiked Amount	25.000		Recovery	=	99.28%		✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.82	42	298	N.D.		
3) Dichlorodifluoromethane	4.99	85	2253	N.D. ✓		
4) Chloromethane	5.32	50	67	N.D. ✓		
5) Freon 114	0.00	135	0	N.D. ✓		
6) Vinyl Chloride	0.00	62	0	N.D. ✓		
7) 1,3-Butadiene	0.00	54	0	N.D. ✓		
8) Bromomethane	0.00	94	0	N.D. ✓		
9) Chloroethane	0.00	64	0	N.D. ✓		
10) Ethanol	7.14	45	2820m	0.119 ng		
11) Acetonitrile	7.46	41	2070	N.D.		
12) Acrolein	7.67	56	56	N.D.		
13) Acetone	7.89	58	11097	0.459 ng	#	82
14) Trichlorofluoromethane	8.16	101	1587	N.D. ✓		
15) Isopropanol	8.36	45	2801	N.D. ✓		
16) Acrylonitrile	0.00	53	0	N.D. ✓		
17) 1,1-Dichloroethene	0.00	96	0	N.D. ✓		
18) tert-Butanol	9.29	59	427	N.D. ✓		
19) Methylene Chloride	9.36	84	1191	N.D. ✓		
20) Allyl Chloride	0.00	41	0	N.D. ✓		
21) Trichlorotrifluoroethane	0.00	151	0	N.D. ✓		
22) Carbon Disulfide	9.79	76	3325	N.D. ✓		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D. ✓		
24) 1,1-Dichloroethane	0.00	63	0	N.D. ✓		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D. ✓		
26) Vinyl Acetate	0.00	86	0	N.D. ✓		
27) 2-Butanone	11.72	72	1493	0.085 ng		98
28) cis-1,2-Dichloroethene	0.00	61	0	N.D. ✓		
29) Diisopropyl Ether	12.78	87	1010903	46.762 ng	NR #	1
30) Ethyl Acetate	12.73	61	760	0.080 ng	#	22
31) n-Hexane	0.00	57	0	N.D.		

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27
 Operator : WA
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 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 06:32:00 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	9403382	229.652 ng	<i>see dil</i>	99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.78	62	60	N.D.	✓	
38) 1,1,1-Trichloroethane	14.30	97	55	N.D.	✓	
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	5891	0.223	ng	91
41) Benzene	14.98	78	3911	N.D.	✓	
42) Carbon Tetrachloride	<u>15.21</u>	117	620789	<u>16.010</u>	ng	99
43) Cyclohexane	15.43	84	334	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	0.00	63	0	N.D.	✓	
46) Bromodichloromethane	16.44	83	435	N.D.	✓	
47) Trichloroethene	16.55	130	443	N.D.	✓	
48) 1,4-Dioxane	0.00	88	0	N.D.	✓	
49) Isooctane	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.	✓	
51) n-Heptane	0.00	71	0	N.D.	✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.	✓	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	180983	7.274 ng	UR #	7
58) Toluene	19.05	91	2811	N.D.	✓	
59) 2-Hexanone	19.38	43	52	N.D.	✓	
60) Dibromochloromethane	0.00	129	0	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.35	43	195	N.D.		
63) n-Octane	0.00	57	0	N.D.	✓	
64) Tetrachloroethene	<u>20.55</u>	166	8212	<u>0.251</u>	ng	91
65) Chlorobenzene	21.42	112	171	N.D.	✓	
66) Ethylbenzene	21.89	91	497	N.D.	✓	
67) m- & p-Xylene	22.12	91	612	N.D.	✓	
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	0.00	104	0	N.D.	✓	
70) o-Xylene	22.72	91	719	N.D.	✓	
71) n-Nonane	22.98	43	76	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.61	83	59	N.D.	✓	
74) Cumene	23.29	105	1419	N.D.	✓	
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.10	91	51	N.D.	✓	
77) 3-Ethyltoluene	24.24	105	231	N.D.		
78) 4-Ethyltoluene	24.28	105	184	N.D.	✓	
79) 1,3,5-Trimethylbenzene	24.39	105	59	N.D.	✓	

WA 5/31/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27
 Operator : WA
 Sample : P0801483-012 (20ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 06:32:00 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

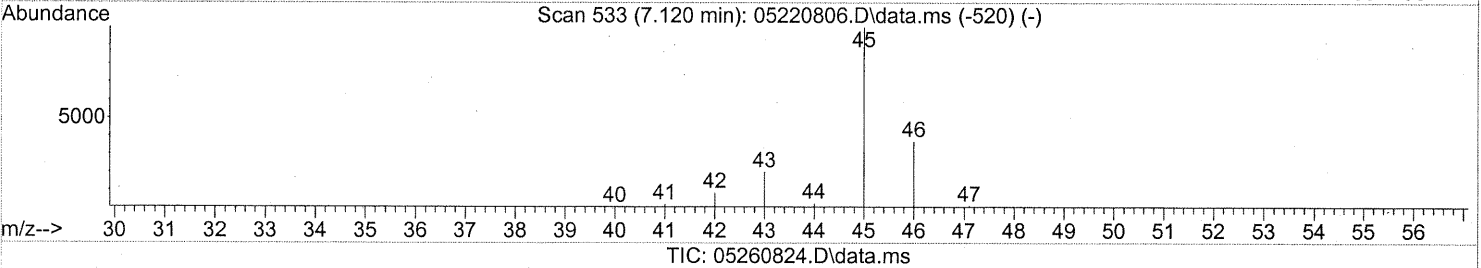
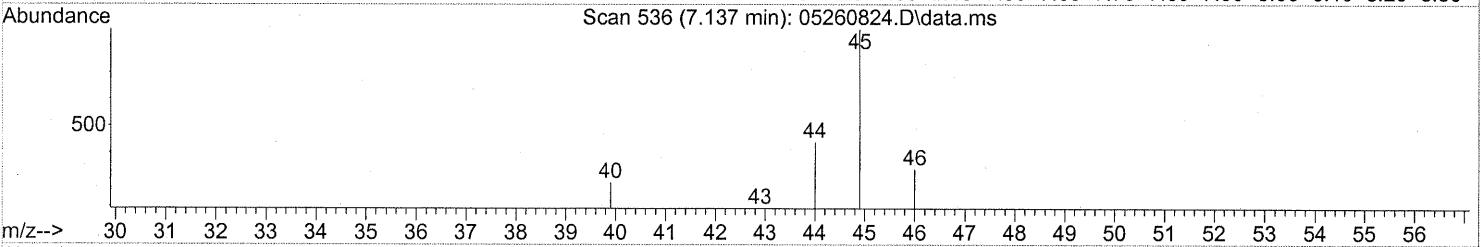
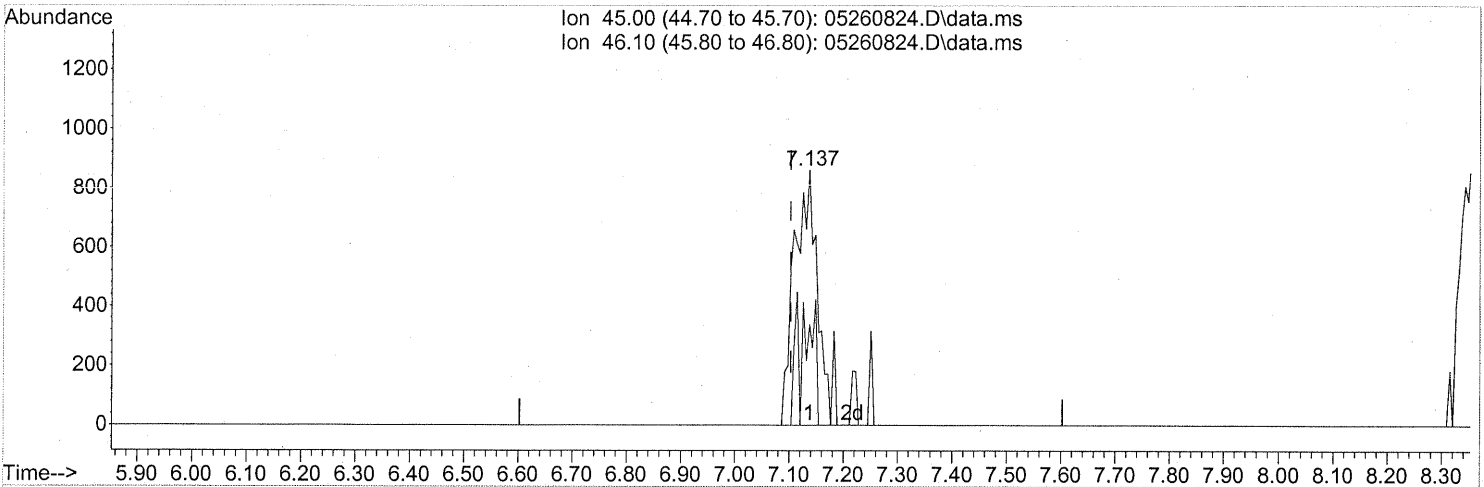
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.78	118	706	N.D.	✓	
81) 2-Ethyltoluene	24.60	105	183	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	897	N.D.	✓	
83) n-Decane	24.98	57	235	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.	✓	
85) 1,3-Dichlorobenzene	25.16	146	5609	0.081 ng	NR	94
86) 1,4-Dichlorobenzene	<u>25.16</u>	146	5609	<u>0.083 ng</u>		94
87) sec-Butylbenzene	25.41	105	257	N.D.	✓	
88) p-Isopropyltoluene	0.00	119	0	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.41	105	257	N.D.		
90) 1,2-Dichlorobenzene	25.16	146	5609	0.085 ng	NR	95
91) d-Limonene	25.57	68	152	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	✓	
93) n-Undecane	26.51	57	1322	N.D.		
94) 1,2,4-Trichlorobenzene	27.64	180	75	N.D.	✓	
95) Naphthalene	27.78	128	1891	N.D.	✓	
96) n-Dodecane	27.74	57	1693	N.D.		
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	✓	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260824.D
Acq On : 27 May 2008 3:27
Operator : WA
Sample : P0801483-012 (20ml)
Misc : ENSR SG62B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 27 06:14:24 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.137min (+0.034) 0.11ng

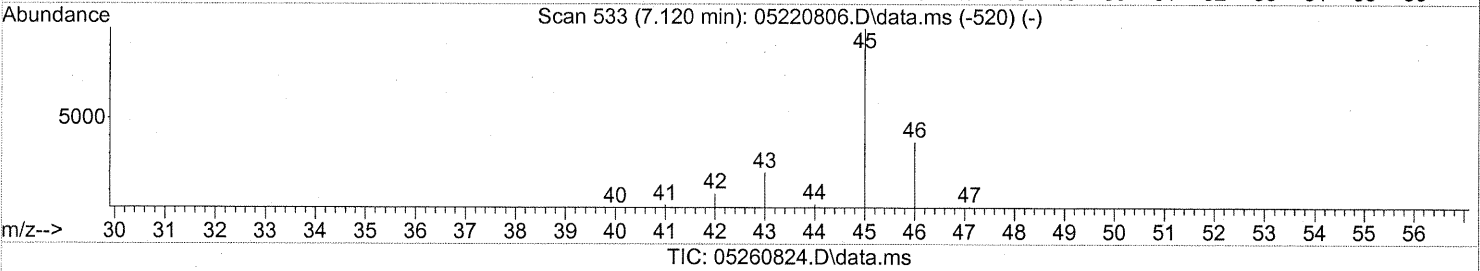
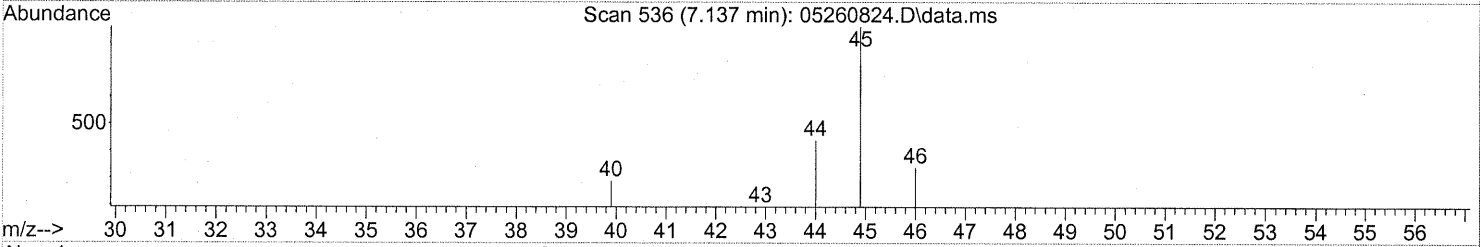
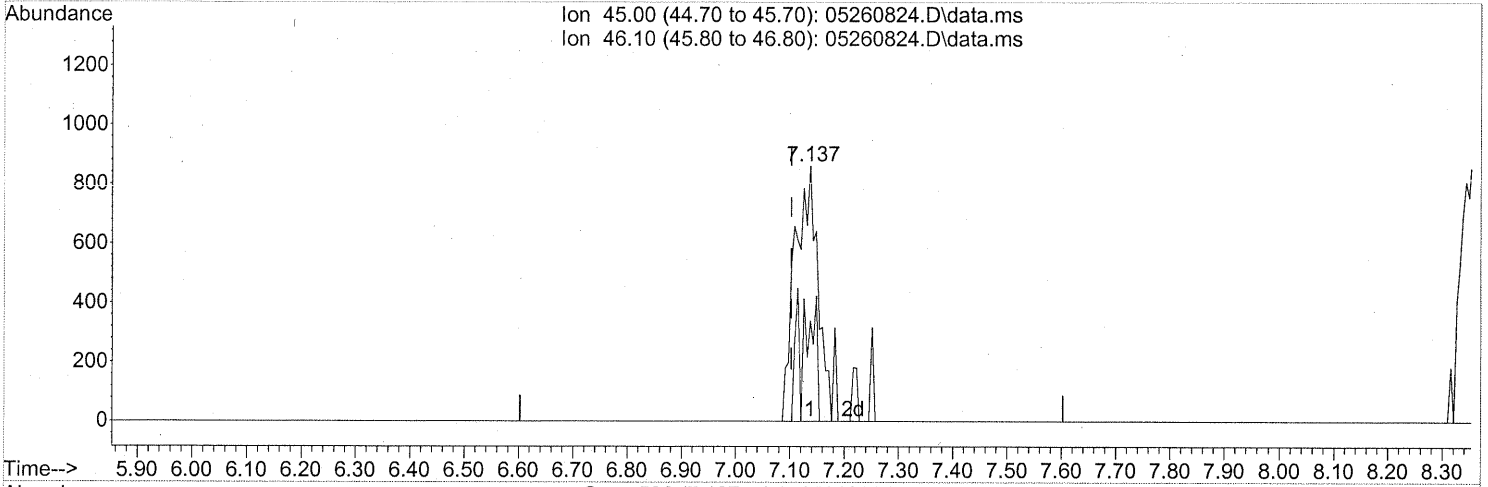
response 2483

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	22.59
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27
 Operator : WA
 Sample : P0801483-012 (20ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 27 06:14:24 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)
 7.137min (+0.034) 0.12ng m
 response 2820

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	19.89#
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

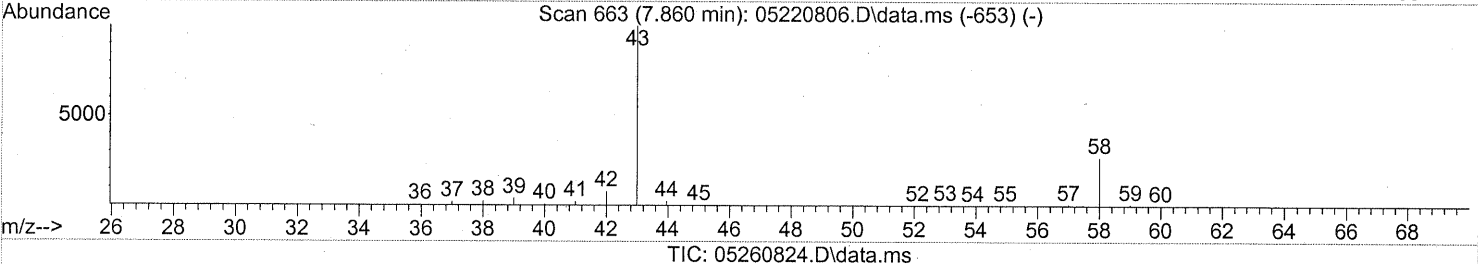
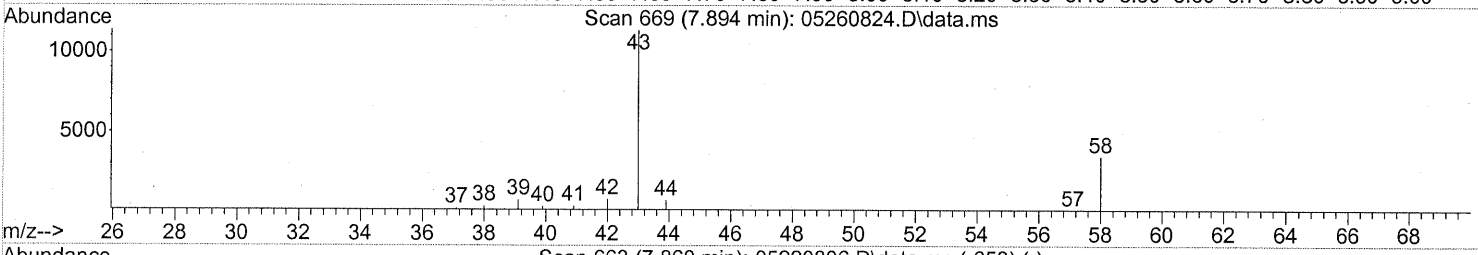
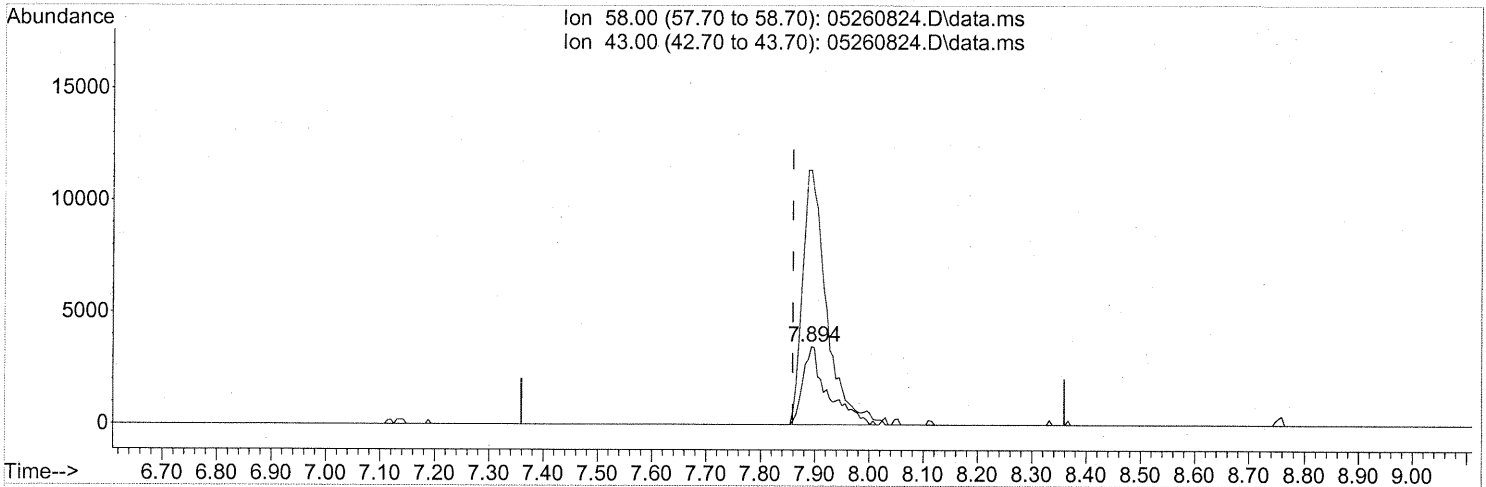
DA 5/31/08

8/06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27
 Operator : WA
 Sample : P0801483-012 (20ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 27 06:14:24 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

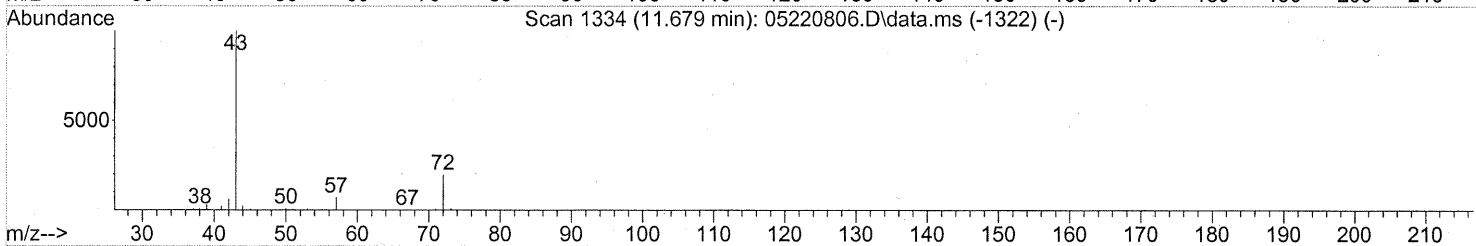
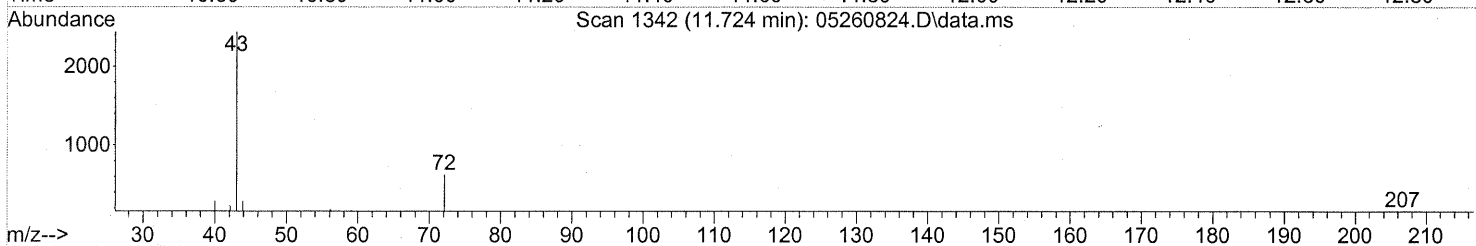
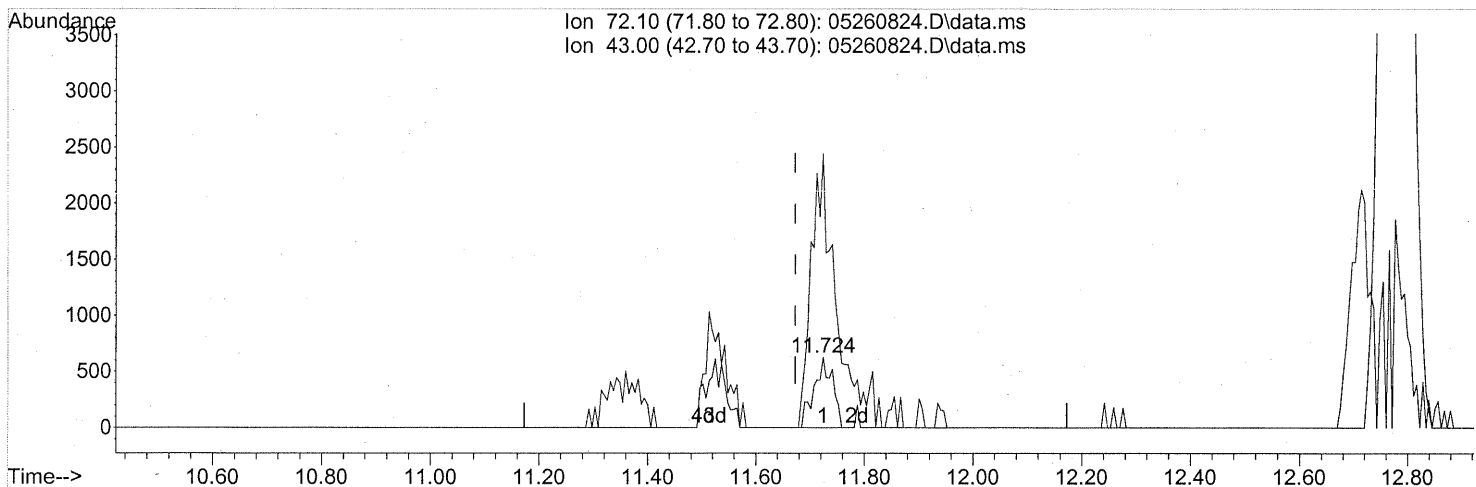


(13) Acetone (T)
 7.894min (+0.034) 0.46ng
 response 11097

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	317.59#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27
 Operator : WA
 Sample : P0801483-012 (20ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 27 06:14:24 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

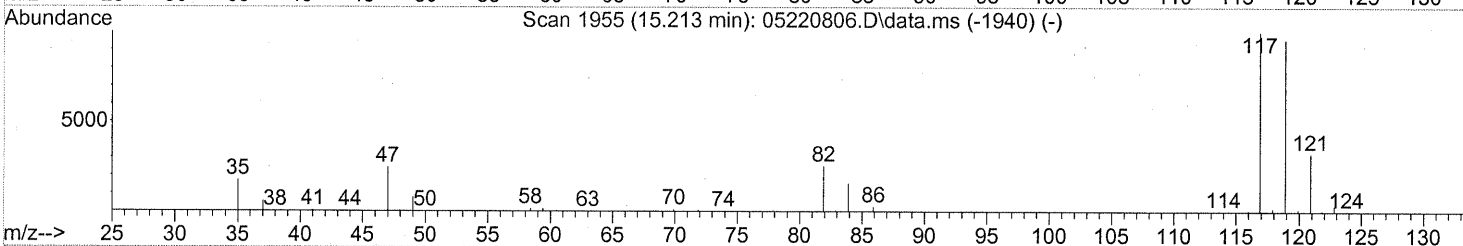
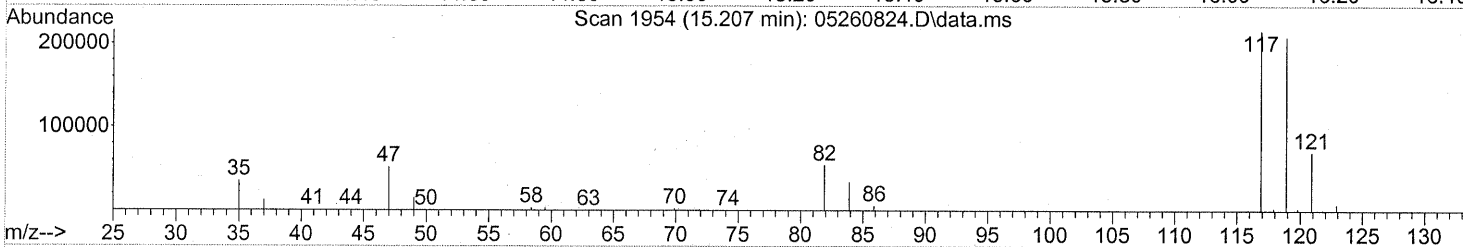
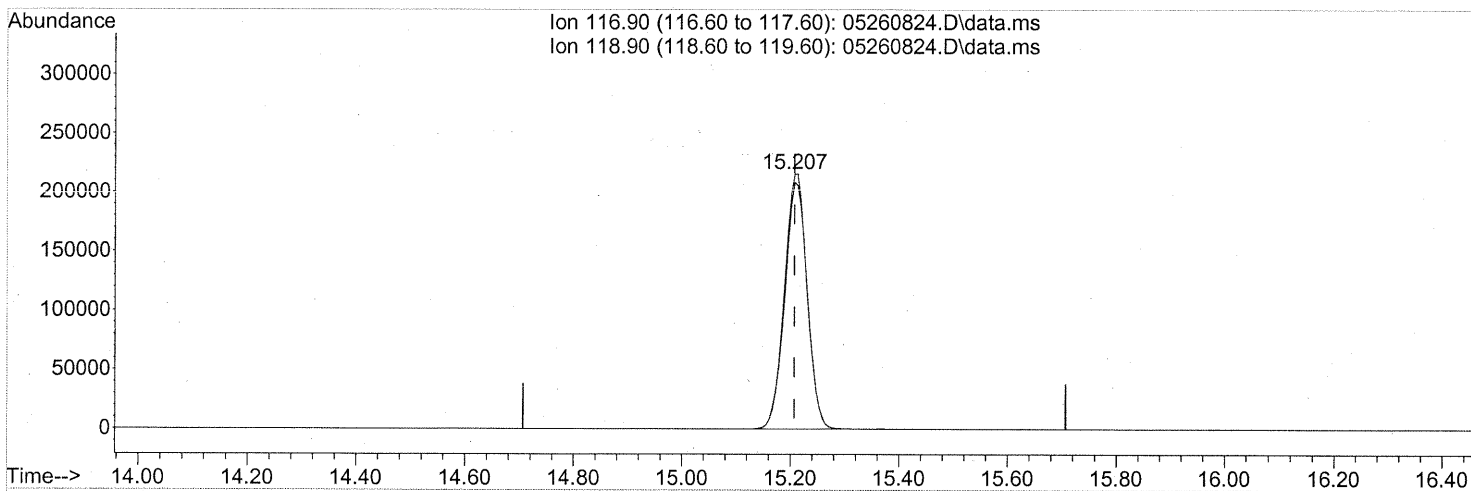


(27) 2-Butanone (T)
 11.724min (+0.051) 0.08ng
 response 1493

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	502.08
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27
 Operator : WA
 Sample : P0801483-012 (20ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 27 06:14:24 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260824.D\data.ms

(42) Carbon Tetrachloride (T)

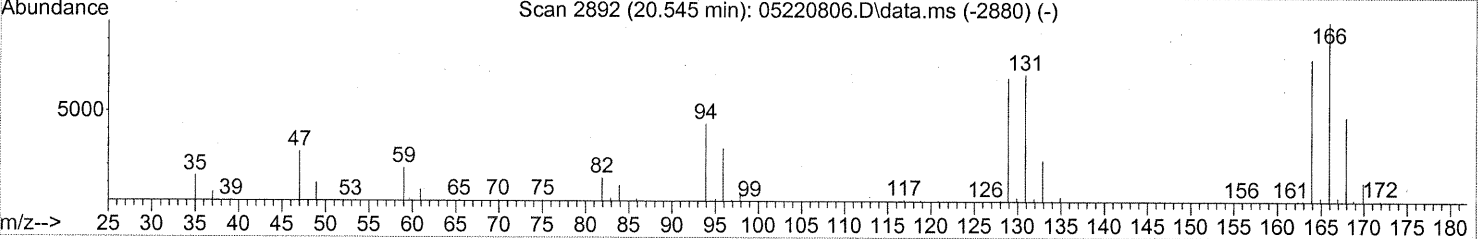
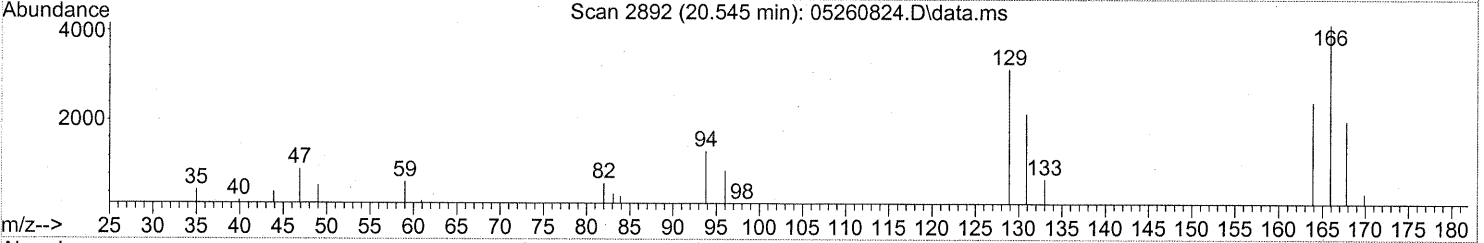
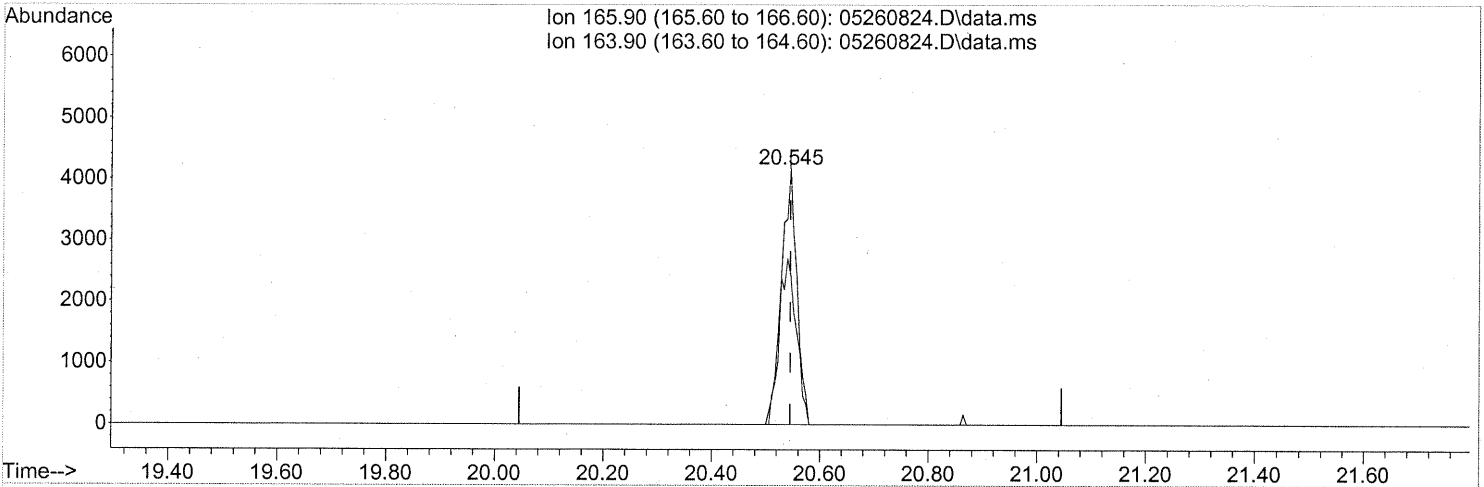
15.207min (+0.000) 16.01ng

response 620789

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	96.08
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27
 Operator : WA
 Sample : P0801483-012 (20ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 27 06:14:24 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260824.D\data.ms

(64) Tetrachloroethene (T)

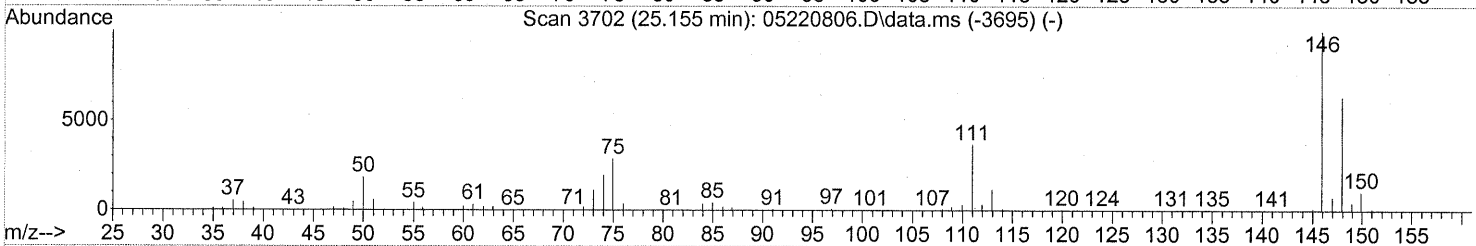
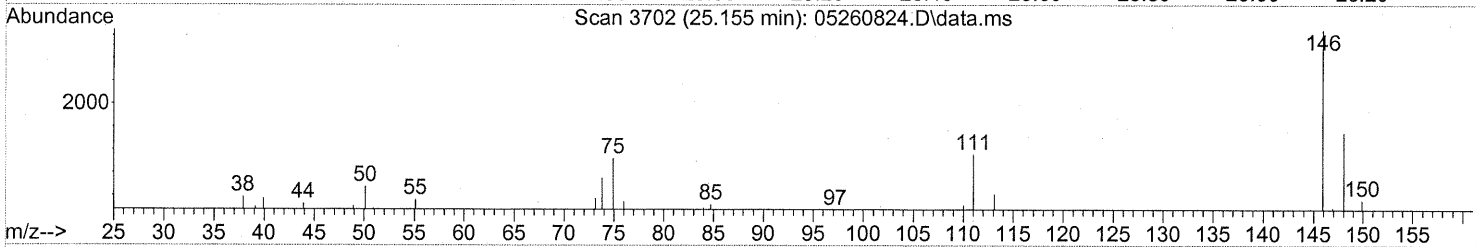
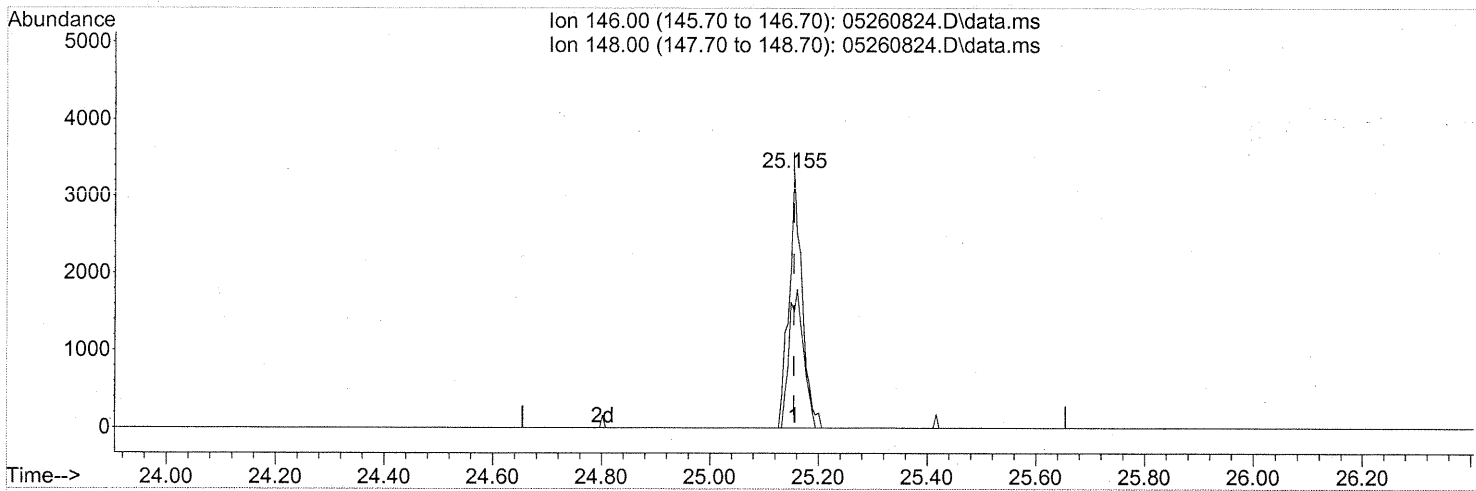
20.545min (+0.000) 0.25ng

response 8212

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	71.08
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27
 Operator : WA
 Sample : P0801483-012 (20ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 27 06:14:24 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260824.D\data.ms

(86) 1,4-Dichlorobenzene (T)

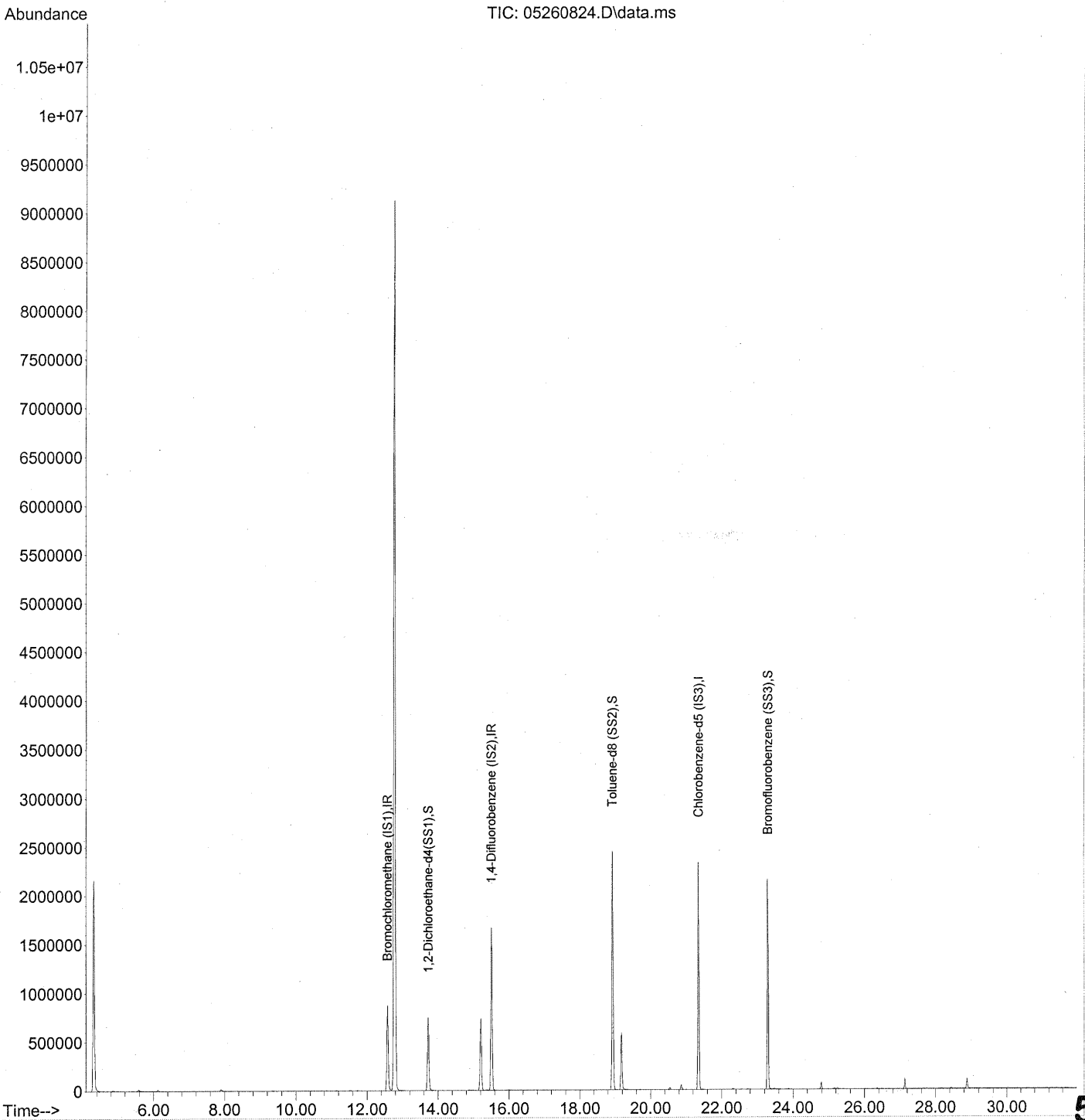
25.155min (+0.000) 0.08ng

response 5609

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	59.60
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27 am
 Operator : WA
 Sample : P0801483-012 (20ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 13:02:43 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260824.D
 Acq On : 27 May 2008 3:27 am
 Operator : WA
 Sample : P0801483-012 (20ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 13:02:43 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

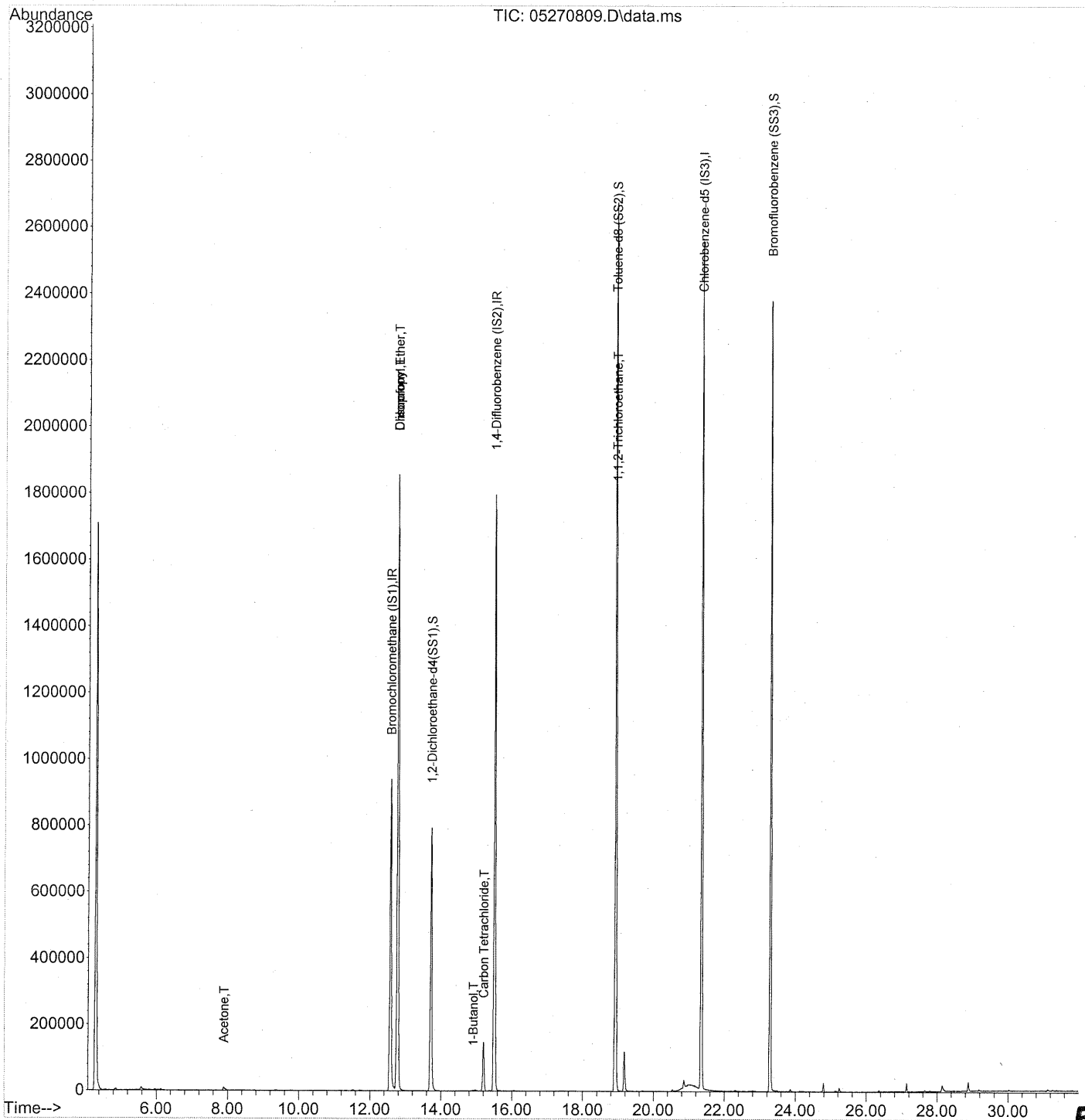
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	449032	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1922962	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	906926	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	758528	24.380	ng	-0.03
Spiked Amount	25.000		Recovery	=	97.52%	
5) Toluene-d8 (SS2)	18.92	98	2040186	25.048	ng	-0.02
Spiked Amount	25.000		Recovery	=	100.20%	
6) Bromofluorobenzene (SS3)	23.29	174	822201	24.823	ng	0.00
Spiked Amount	25.000		Recovery	=	99.28%	
Target Compounds						
7) tert-Butylbenzene	24.79	119	1408		N.D.	Qvalue
8) n-Butylbenzene	25.90	91	67		N.D.	

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

DA 5/31/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270809.D
 Acq On : 27 May 2008 15:02
 Operator : WA
 Sample : P0801483-012 Dil (5ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:11:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270809.D
 Acq On : 27 May 2008 15:02
 Operator : WA
 Sample : P0801483-012 Dil (5ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:11:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	499212	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2099195	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	997534	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.72	65	813259	23.511	ng	0.00
Spiked Amount	25.000			Recovery	=	94.04%
57) Toluene-d8 (SS2)	18.92	98	2222096	24.803	ng	0.00
Spiked Amount	25.000			Recovery	=	99.20%
73) Bromofluorobenzene (SS3)	23.29	174	906989	24.896	ng	0.00
Spiked Amount	25.000			Recovery	=	99.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	1231	N.D.		
3) Dichlorodifluoromethane	5.00	85	468	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.14	45	533	N.D.		
11) Acetonitrile	7.49	41	880	N.D.		
12) Acrolein	7.67	56	141	N.D.		
13) Acetone	7.89	58	4829	0.180	ng	# 34
14) Trichlorofluoromethane	8.16	101	265	N.D.		
15) Isopropanol	8.37	45	67	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	9.33	59	233	N.D.		
19) Methylene Chloride	9.35	84	1200	N.D.		
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	1424	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.33	86	79	N.D.		
27) 2-Butanone	11.71	72	89	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	204611	8.513	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

588

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270809.D
 Acq On : 27 May 2008 15:02
 Operator : WA
 Sample : P0801483-012 Dil (5ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:11:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	1974711	43.379	ng	100
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.72	62	317	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.92	56	1906	0.066	ng	# 59
41) Benzene	14.98	78	3254	N.D.		
42) Carbon Tetrachloride	15.21	117	124507	2.941	ng	100
43) Cyclohexane	15.51	84	1737	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	194819	7.173	ng	# 7
58) Toluene	19.05	91	795	N.D.		
59) 2-Hexanone	19.36	43	75	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.22	43	57	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.55	166	1724	N.D.		
65) Chlorobenzene	21.35	112	541	N.D.		
66) Ethylbenzene	21.89	91	343	N.D.		
67) m- & p-Xylene	22.13	91	68	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.71	91	223	N.D.		
71) n-Nonane	22.97	43	109	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.61	83	63	N.D.		
74) Cumene	23.29	105	1321	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.24	105	61	N.D.		
78) 4-Ethyltoluene	24.24	105	61	N.D.		
79) 1,3,5-Trimethylbenzene	24.24	105	61	N.D.		

589

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270809.D
 Acq On : 27 May 2008 15:02
 Operator : WA
 Sample : P0801483-012 Dil (5ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:11:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

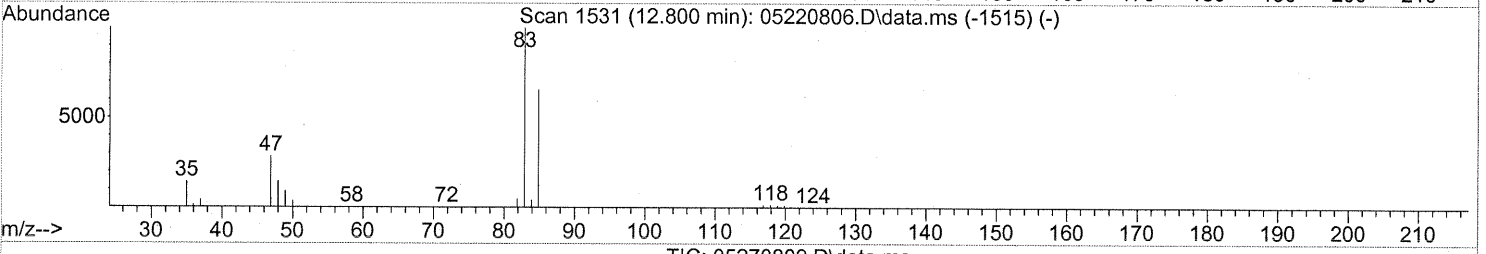
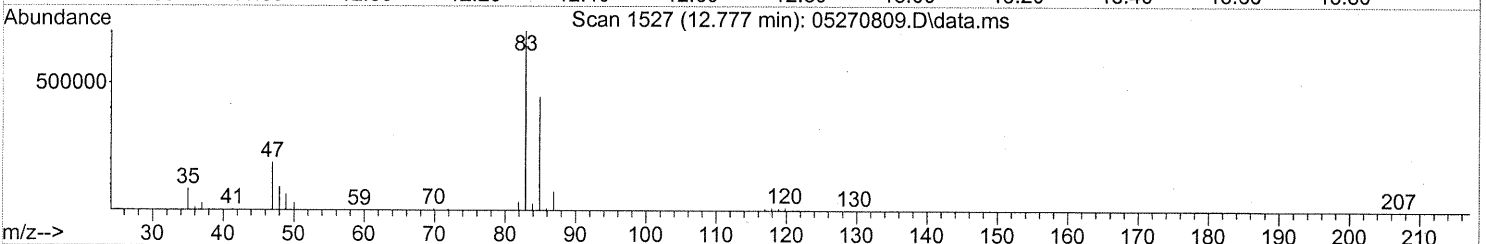
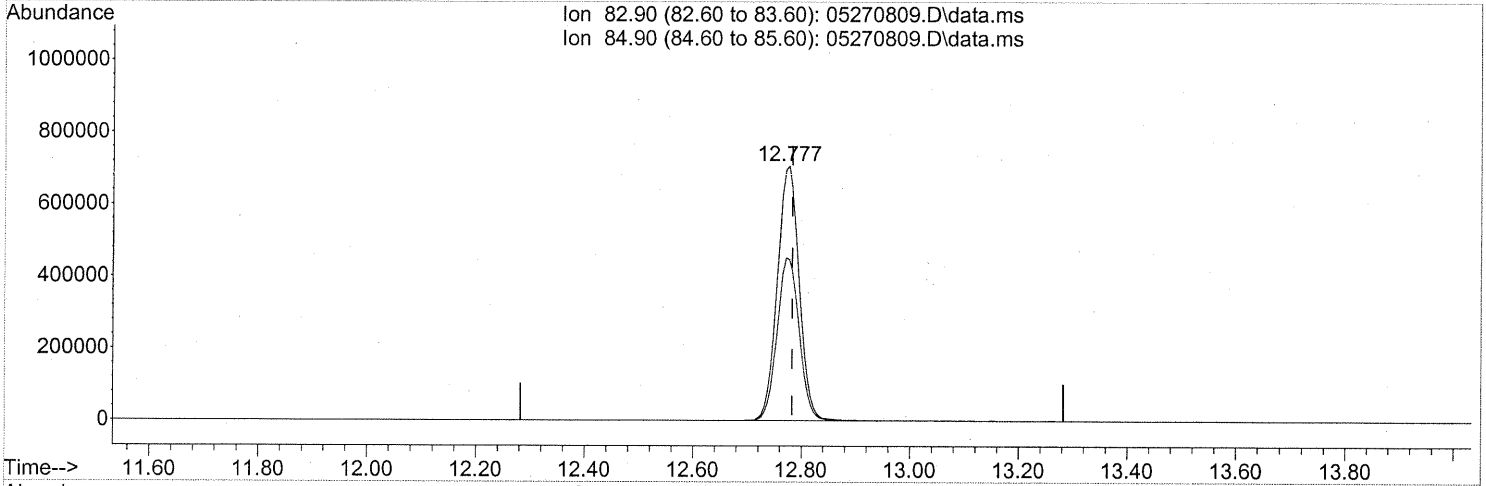
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.79	118	322	N.D.		
81) 2-Ethyltoluene	24.88	105	185	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	185	N.D.		
83) n-Decane	24.99	57	123	N.D.		
84) Benzyl Chloride	25.08	91	142	N.D.		
85) 1,3-Dichlorobenzene	25.15	146	1588	N.D.		
86) 1,4-Dichlorobenzene	25.15	146	1588	N.D.		
87) sec-Butylbenzene	24.88	105	185	N.D.		
88) p-Isopropyltoluene	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	25.15	146	1588	N.D.		
91) d-Limonene	25.57	68	65	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.51	57	338	N.D.		
94) 1,2,4-Trichlorobenzene	27.65	180	124	N.D.		
95) Naphthalene	27.78	128	2044	N.D.		
96) n-Dodecane	27.74	57	490	N.D.		
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270809.D
 Acq On : 27 May 2008 15:02
 Operator : WA
 Sample : P0801483-012 Dil (5ml)
 Misc : ENSR SG62B-05 (-2.9, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:11:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270809.D\data.ms

(32) Chloroform (T)
 12.777min (-0.006) 43.38ng
 response 1974711

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.48
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG33B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-013

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00322

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.22

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.1	0.11	0.40	0.22	0.022	
74-87-3	Chloromethane	0.34	0.22	0.11	0.17	0.11	0.054	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.11	ND	0.16	0.016	
75-01-4	Vinyl Chloride	ND	0.22	0.11	ND	0.087	0.043	
74-83-9	Bromomethane	0.13	0.22	0.11	0.033	0.057	0.029	J
75-00-3	Chloroethane	0.38	0.22	0.11	0.15	0.084	0.042	
64-17-5	Ethanol	7.0	11	0.11	3.7	5.9	0.059	J
67-64-1	Acetone	28	11	0.16	12	4.7	0.068	B
75-69-4	Trichlorofluoromethane	1.1	0.22	0.11	0.20	0.040	0.020	
107-13-1	Acrylonitrile	ND	1.1	0.16	ND	0.51	0.072	
75-35-4	1,1-Dichloroethene	ND	0.22	0.11	ND	0.056	0.028	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.42	1.1	0.16	0.14	0.37	0.054	J
75-09-2	Methylene Chloride	0.29	1.1	0.11	0.083	0.32	0.032	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.11	ND	0.071	0.035	
76-13-1	Trichlorotrifluoroethane	0.46	0.22	0.12	0.059	0.029	0.016	
75-15-0	Carbon Disulfide	3.0	1.1	0.27	0.95	0.36	0.086	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.11	ND	0.056	0.028	
75-34-3	1,1-Dichloroethane	ND	0.22	0.11	ND	0.055	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.11	ND	0.062	0.031	
108-05-4	Vinyl Acetate	11	11	0.36	3.0	3.2	0.10	J
78-93-3	2-Butanone (MEK)	6.2	1.1	0.11	2.1	0.38	0.038	B
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.11	ND	0.056	0.028	
108-20-3	Diisopropyl Ether	ND	1.1	0.13	ND	0.27	0.031	
67-66-3	Chloroform	33	0.22	0.13	6.9	0.045	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG33B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311
 Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00322

CAS Project ID: P0801483
 CAS Sample ID: P0801483-013

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.22

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.1	0.11	ND	0.27	0.027	
107-06-2	1,2-Dichloroethane	ND	0.22	0.11	ND	0.055	0.027	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.11	ND	0.041	0.020	
71-43-2	Benzene	3.8	0.22	0.11	1.2	0.070	0.035	
56-23-5	Carbon Tetrachloride	1.5	0.22	0.11	0.25	0.035	0.018	
994-05-8	tert-Amyl Methyl Ether	ND	1.1	0.11	ND	0.27	0.027	
78-87-5	1,2-Dichloropropane	ND	0.22	0.11	ND	0.048	0.024	
75-27-4	Bromodichloromethane	ND	0.22	0.11	ND	0.033	0.017	
79-01-6	Trichloroethene	3.9	0.22	0.11	0.73	0.041	0.021	
123-91-1	1,4-Dioxane	0.32	1.1	0.14	0.090	0.31	0.038	J
80-62-6	Methyl Methacrylate	ND	1.1	0.17	ND	0.27	0.041	
142-82-5	n-Heptane	ND	1.1	0.14	ND	0.27	0.035	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.12	ND	0.24	0.025	
108-10-1	4-Methyl-2-pentanone	0.51	1.1	0.12	0.12	0.27	0.030	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.14	ND	0.24	0.031	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.11	ND	0.041	0.020	
108-88-3	Toluene	3.7	1.1	0.11	0.97	0.29	0.029	
591-78-6	2-Hexanone	0.61	1.1	0.17	0.15	0.27	0.041	J
124-48-1	Dibromochloromethane	ND	0.22	0.15	ND	0.026	0.018	
106-93-4	1,2-Dibromoethane	ND	0.22	0.12	ND	0.029	0.016	
111-65-9	n-Octane	0.44	1.1	0.11	0.094	0.24	0.024	J
127-18-4	Tetrachloroethene	5.7	0.22	0.11	0.85	0.033	0.016	
108-90-7	Chlorobenzene	0.17	0.22	0.11	0.037	0.048	0.025	J

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Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG33B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-013

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00322

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.22

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.16	1.1	0.14	0.038	0.26	0.032	J
179601-23-1	m,p-Xylenes	0.68	1.1	0.29	0.16	0.26	0.066	J
75-25-2	Bromoform	ND	1.1	0.17	ND	0.11	0.016	
100-42-5	Styrene	ND	1.1	0.17	ND	0.26	0.040	
95-47-6	o-Xylene	0.25	1.1	0.14	0.057	0.26	0.032	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.14	ND	0.032	0.021	
98-82-8	Cumene	ND	1.1	0.12	ND	0.23	0.025	
103-65-1	n-Propylbenzene	ND	1.1	0.12	ND	0.23	0.023	
622-96-8	4-Ethyltoluene	ND	1.1	0.13	ND	0.23	0.026	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.13	ND	0.23	0.027	
98-83-9	alpha-Methylstyrene	0.19	1.1	0.16	0.039	0.23	0.034	J
95-63-6	1,2,4-Trimethylbenzene	0.56	1.1	0.15	0.11	0.23	0.031	J
100-44-7	Benzyl Chloride	0.29	0.22	0.19	0.057	0.043	0.037	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.14	ND	0.037	0.023	
106-46-7	1,4-Dichlorobenzene	1.8	0.22	0.12	0.29	0.037	0.021	
135-98-8	sec-Butylbenzene	ND	1.1	0.13	ND	0.20	0.023	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.34	1.1	0.14	0.062	0.20	0.026	J
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.15	ND	0.037	0.024	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.17	ND	0.11	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	0.22	0.17	ND	0.030	0.023	
91-20-3	Naphthalene	1.3	0.44	0.16	0.24	0.085	0.031	
87-68-3	Hexachlorobutadiene	0.72	0.22	0.20	0.067	0.021	0.019	
98-06-6	tert-Butylbenzene	ND	0.44	0.11	ND	0.081	0.020	
104-51-8	n-Butylbenzene	0.34	0.44	0.11	0.062	0.081	0.020	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

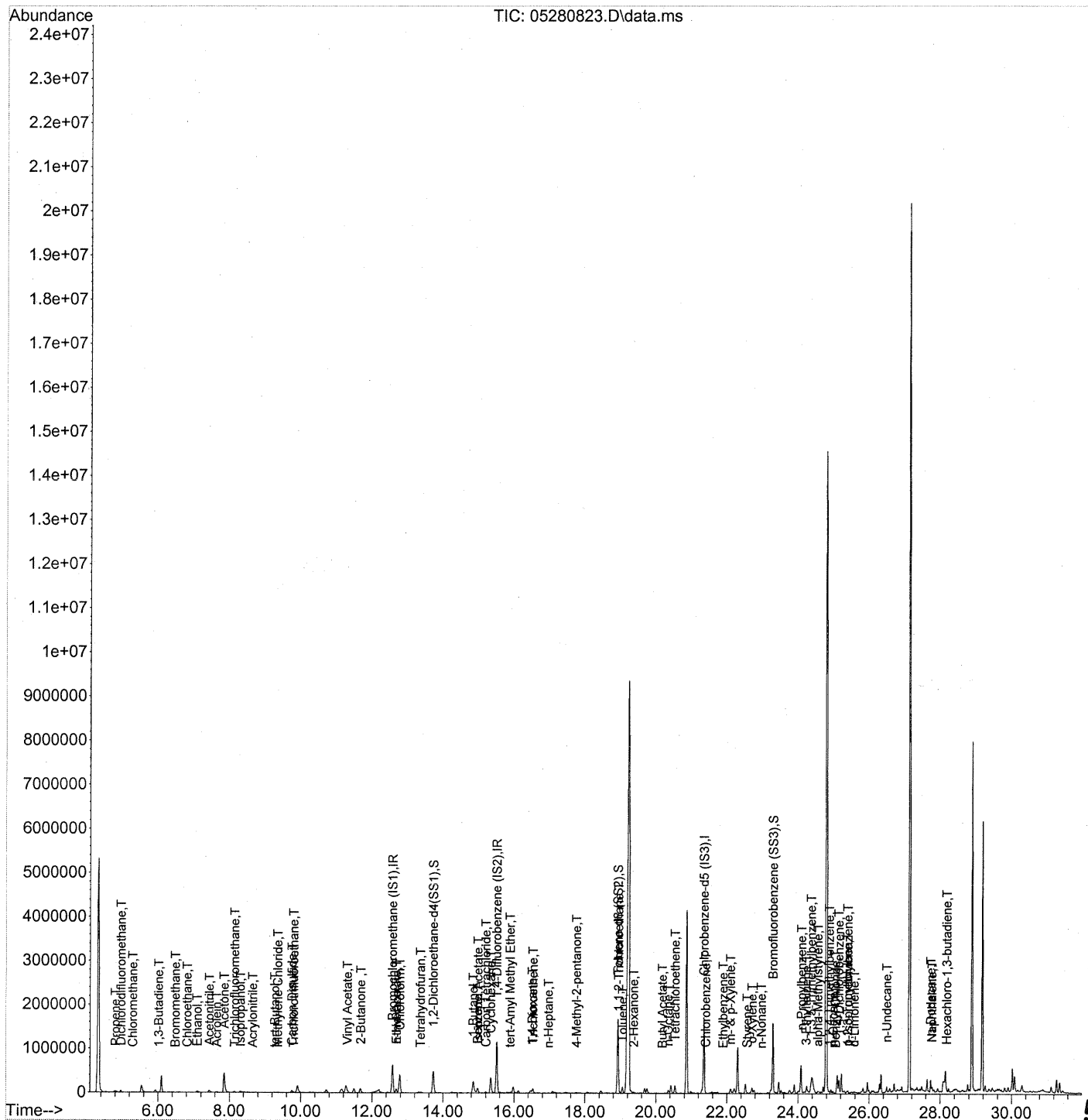
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CA Date: 6/4/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:38:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
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 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	321929	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1383390	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	646785	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.73	65	512231	22.963	ng	0.00	
Spiked Amount	25.000		Recovery	=	91.84%		✓
57) Toluene-d8 (SS2)	18.93	98	1417309	24.399	ng	0.00	
Spiked Amount	25.000		Recovery	=	97.60%		✓
73) Bromofluorobenzene (SS3)	23.29	174	602196	25.494	ng	0.00	
Spiked Amount	25.000		Recovery	=	101.96%		✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	14666	0.577	ng	# 84
3) Dichlorodifluoromethane	4.97	85	41550	0.887	ng	99
4) Chloromethane	5.29	50	4715	0.155	ng	99
5) Freon 114	5.53	135	446	N.D.	✓	
6) Vinyl Chloride	5.73	62	161	N.D.	✓	
7) 1,3-Butadiene	6.02	54	3027	0.134	ng	# 67
8) Bromomethane	6.48	94	980	0.058	ng	# 75
9) Chloroethane	6.82	64	2498	0.173	ng	92
10) Ethanol	7.10	45	53320m	3.150	ng	
11) Acetonitrile	7.43	41	78820	1.610	ng	92
12) Acrolein	7.64	56	17509	1.448	ng	98
13) Acetone	7.85	58	219278m	12.653	ng	
14) Trichlorofluoromethane	8.14	101	20387	0.507	ng	99
15) Isopropanol	8.31	45	58826	1.064	ng	93
16) Acrylonitrile	8.66	53	1554	0.059	ng	85
17) 1,1-Dichloroethene	0.00	96	0	N.D.	✓	
18) tert-Butanol	9.27	59	8958	0.191	ng	82
19) Methylene Chloride	9.36	84	2519	0.130	ng	# 76
20) Allyl Chloride	9.55	41	769	N.D.	✓	
21) Trichlorotrifluoroethane	9.80	151	3747	0.205	ng	97
22) Carbon Disulfide	9.76	76	97996	1.333	ng	99
23) trans-1,2-Dichloroethene	10.72	61	972	N.D.	✓	
24) 1,1-Dichloroethane	11.17	63	53	N.D.	✓	
25) Methyl tert-Butyl Ether	11.21	73	149	N.D.	✓	
26) Vinyl Acetate	11.31	86	15438	4.820	ng	# 1
27) 2-Butanone	11.68	72	35440	2.802	ng	# 90
28) cis-1,2-Dichloroethene	12.34	61	146	N.D.	✓	
29) Diisopropyl Ether	12.69	87	227	N.D.	✓	
30) Ethyl Acetate	12.69	61	18784	2.751	ng	82
31) n-Hexane	12.69	57	2819	0.082	ng	76

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Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:38:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	442983	15.090 ng		99
34) Tetrahydrofuran	13.36	72	3963	0.328 ng	#	62
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	62	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	422	N.D. ✓		
39) Isopropyl Acetate	14.99	61	687	0.058 ng	#	1
40) 1-Butanol	14.85	56	233079	12.258 ng		87
41) Benzene	14.97	78	124789	1.723 ng		99
42) Carbon Tetrachloride	15.21	117	19356	0.694 ng		99
43) Cyclohexane	15.34	84	15556	0.552 ng	#	1
44) tert-Amyl Methyl Ether	15.89	73	4532	0.087 ng NR #		25
45) 1,2-Dichloropropane	16.19	63	436	N.D. ✓		
46) Bromodichloromethane	16.47	83	389	N.D. ✓		
47) Trichloroethene	16.53	130	39458	1.776 ng		98
48) 1,4-Dioxane	16.52	88	2001	0.146 ng		85
49) Isooctane	16.62	57	3382	N.D. ✓		
50) Methyl Methacrylate	16.70	100	181	N.D. ✓		
51) n-Heptane	16.97	71	983	0.051 ng		81
52) cis-1,3-Dichloropropene	17.85	75	58	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	4383	0.228 ng		83
54) trans-1,3-Dichloropropene	18.46	75	67	N.D. ✓		
55) 1,1,2-Trichloroethane	18.95	97	123936	6.924 ng NR #		8
58) Toluene	19.06	91	130243	1.649 ng		95
59) 2-Hexanone	19.37	43	14996	0.276 ng		80
60) Dibromochloromethane	0.00	129	0	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.18	43	4240	0.077 ng		89
63) n-Octane	20.35	57	3442	0.197 ng		82
64) Tetrachloroethene	20.54	166	60346	2.583 ng		99
65) Chlorobenzene	21.40	112	4085	0.077 ng		88
66) Ethylbenzene	21.89	91	6679	0.074 ng		92
67) m- & p-Xylene	22.10	91	18577	0.307 ng		92
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	22.57	104	4049	0.075 ng <M#L		56
70) o-Xylene	22.71	91	7303	0.112 ng		97
71) n-Nonane	22.97	43	4491	0.097 ng	#	79
72) 1,1,2,2-Tetrachloroethane	22.69	83	256	N.D. ✓		
74) Cumene	23.48	105	1274	N.D. ✓		
75) alpha-Pinene	23.96	93	2238	N.D.		
76) n-Propylbenzene	24.10	91	5539	0.050 ng	#	1
77) 3-Ethyltoluene	24.23	105	8928	0.096 ng		98
78) 4-Ethyltoluene	24.27	105	3980	N.D. ✓		
79) 1,3,5-Trimethylbenzene	24.37	105	4600	0.059 ng		91

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Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:38:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

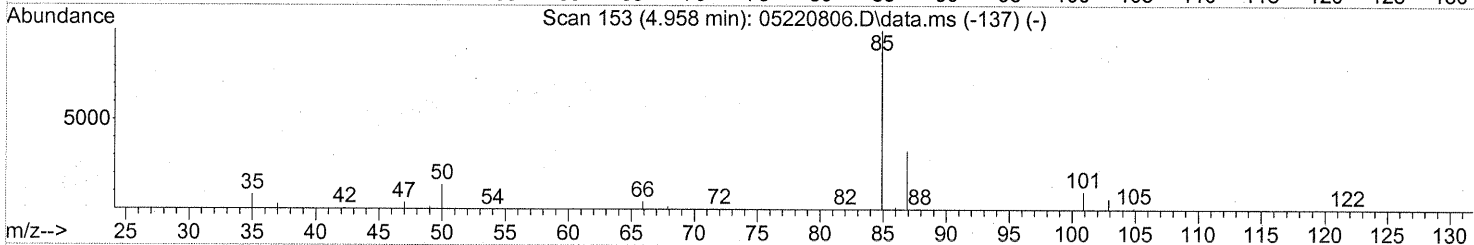
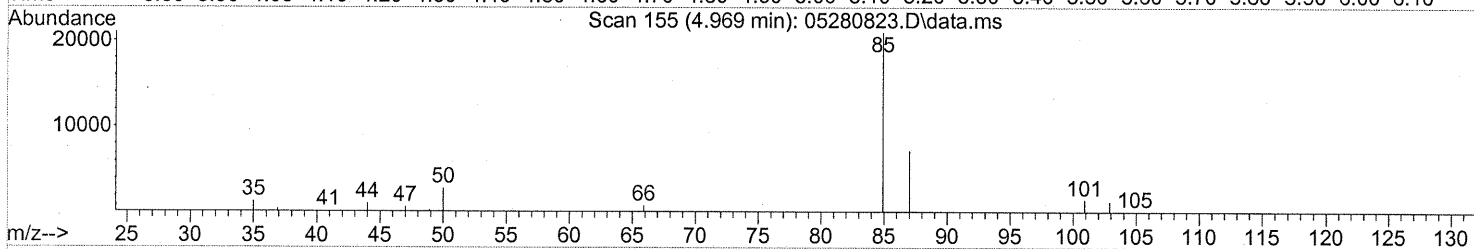
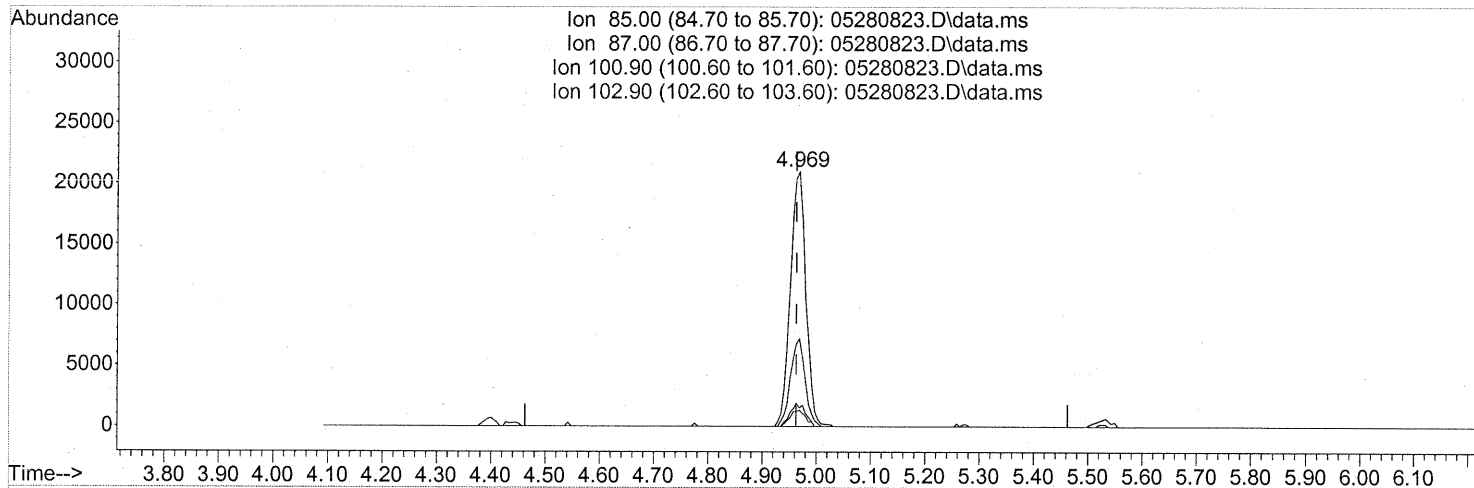
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	3599	0.085 ng	#	63
81) 2-Ethyltoluene	24.61	105	4436	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	20133	0.253 ng		89
83) n-Decane	24.98	57	15093	0.345 ng	#	66
84) Benzyl Chloride	25.05	91	7037	0.132 ng		99
85) 1,3-Dichlorobenzene	25.08	146	481	N.D.✓		
86) 1,4-Dichlorobenzene	25.15	146	38446	0.798 ng		99
87) sec-Butylbenzene	25.21	105	1159	N.D.✓		
88) p-Isopropyltoluene	25.40	119	12841	0.154 ng		93
89) 1,2,3-Trimethylbenzene	25.40	105	7299	0.094 ng		98
90) 1,2-Dichlorobenzene	25.57	146	831	N.D.✓		
91) d-Limonene	25.58	68	5312	0.168 ng		93
92) 1,2-Dibromo-3-Chloropr...	26.50	157	61	N.D.✓		
93) n-Undecane	26.50	57	43840	0.958 ng	#	66
94) 1,2,4-Trichlorobenzene	27.62	180	726	N.D.✓		
95) Naphthalene	27.77	128	59615	0.569 ng		96
96) n-Dodecane	27.73	57	92276	2.028 ng		83
97) Hexachloro-1,3-butadiene	28.19	225	7426	0.323 ng		92

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:38:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 0.89ng

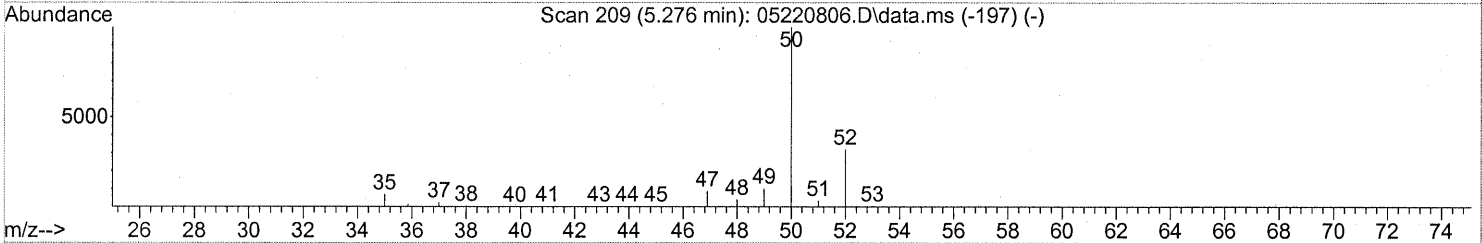
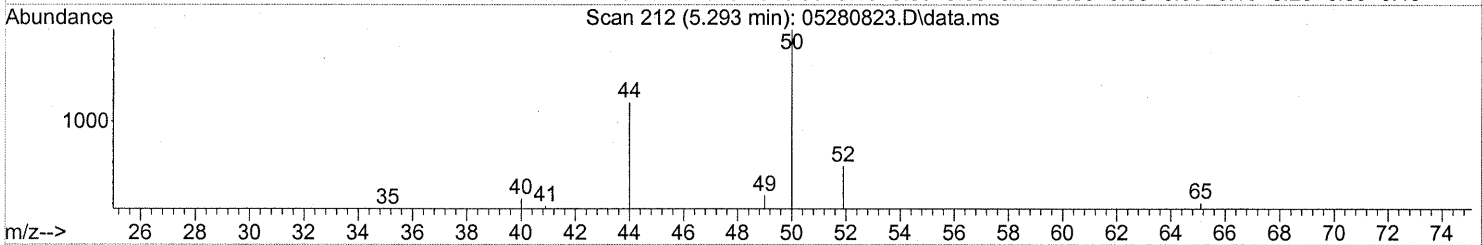
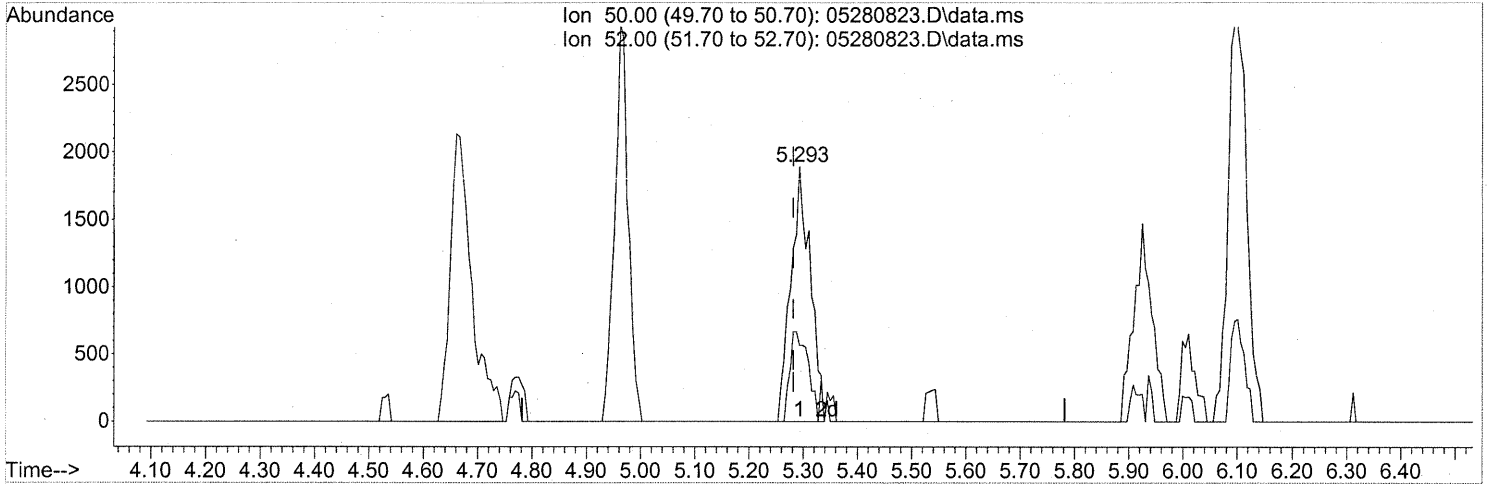
response 41550

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.39
100.90	9.30	8.79
102.90	6.00	6.27

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

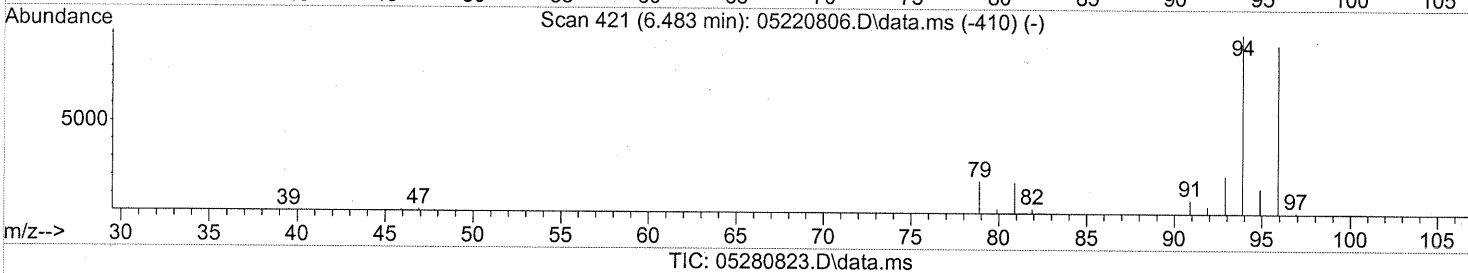
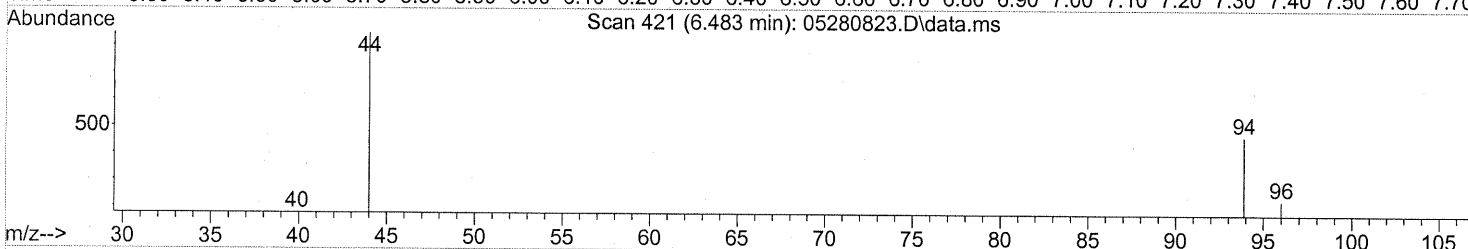
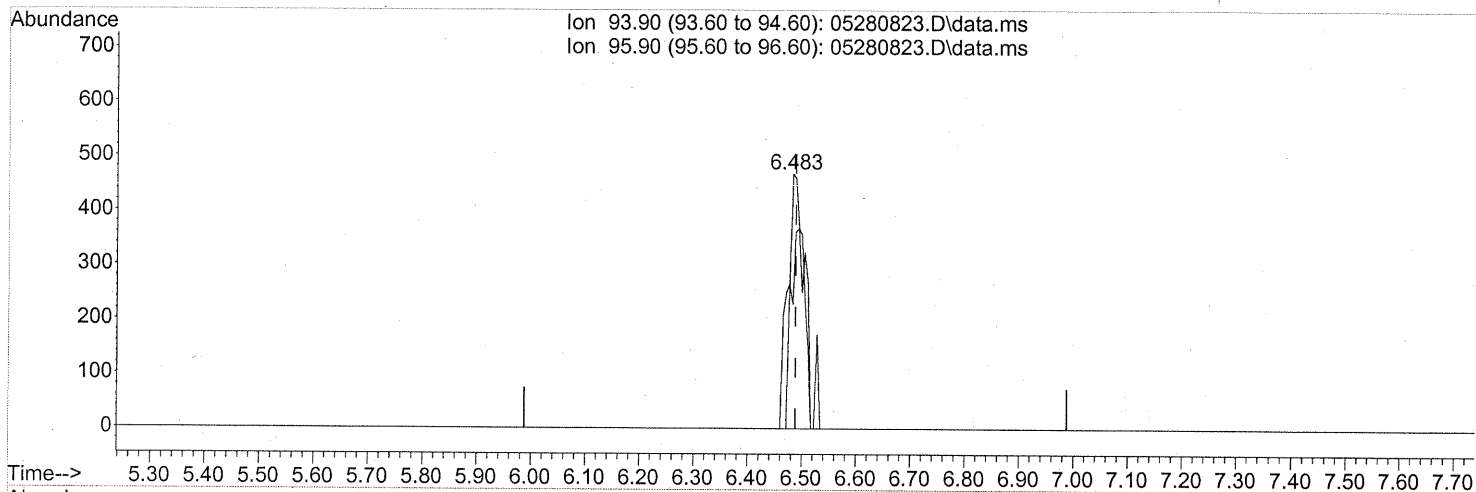
(4) Chloromethane (T)
 5.293min (+0.011) 0.16ng
 response 4715

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	32.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280823.D
Acq On : 29 May 2008 2:16
Operator : WA
Sample : P0801483-013 (1000ml)
Misc : ENSR SG33B-05 (-6.5, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:38:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(8) Bromomethane (T)

6.483min (-0.006) 0.06ng

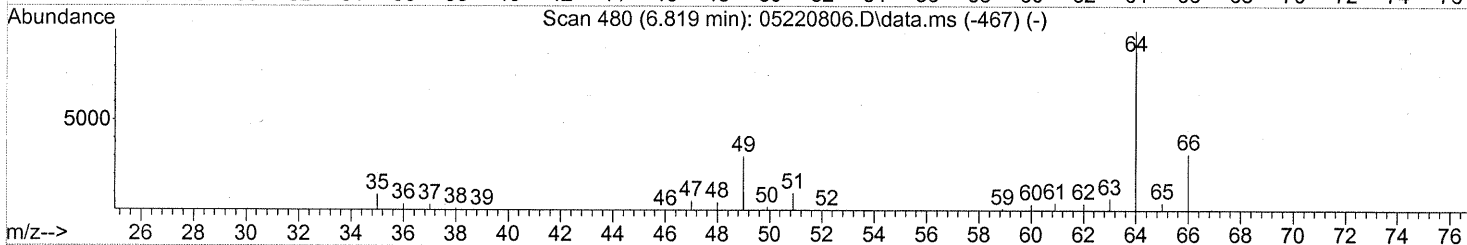
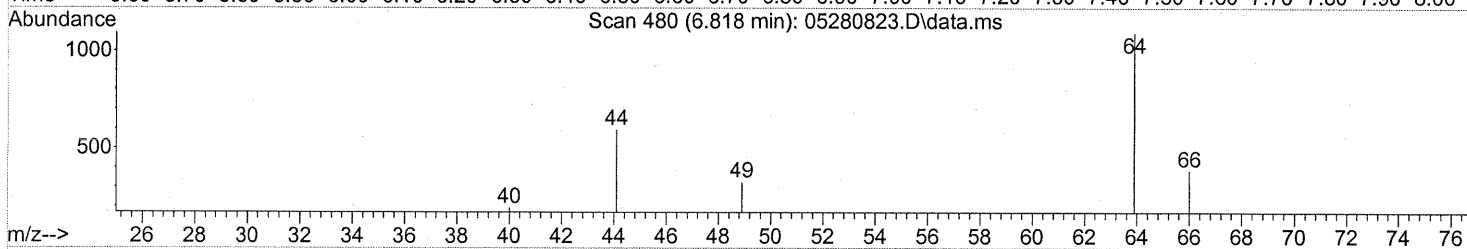
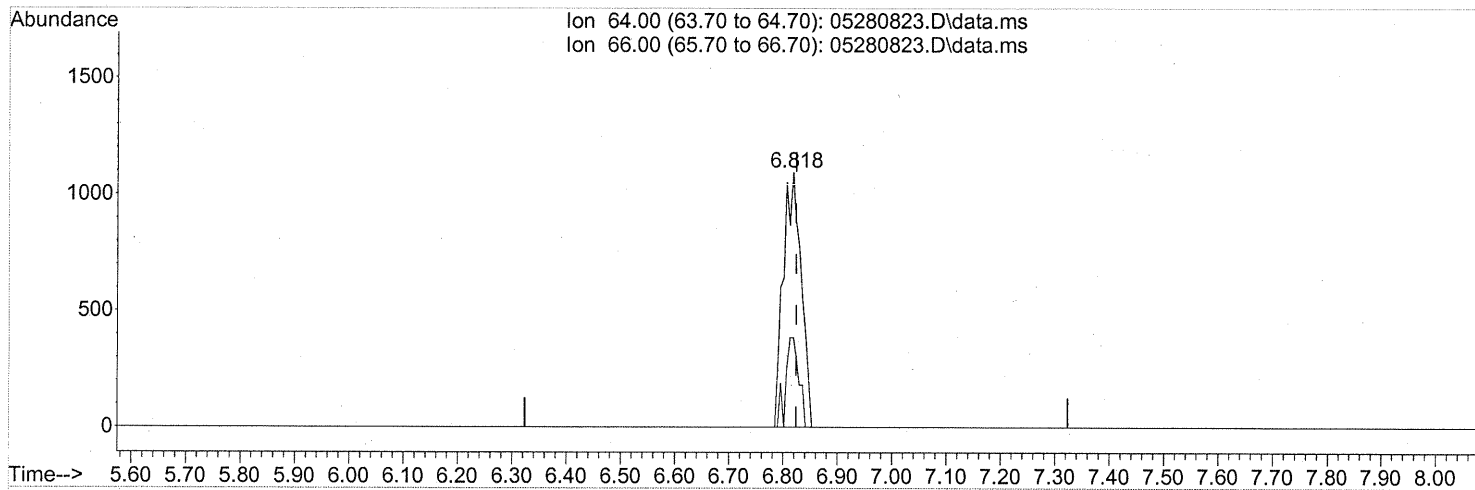
response 980

Ion	Exp%	Act%
93.90	100	100
95.90	92.30	68.67#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

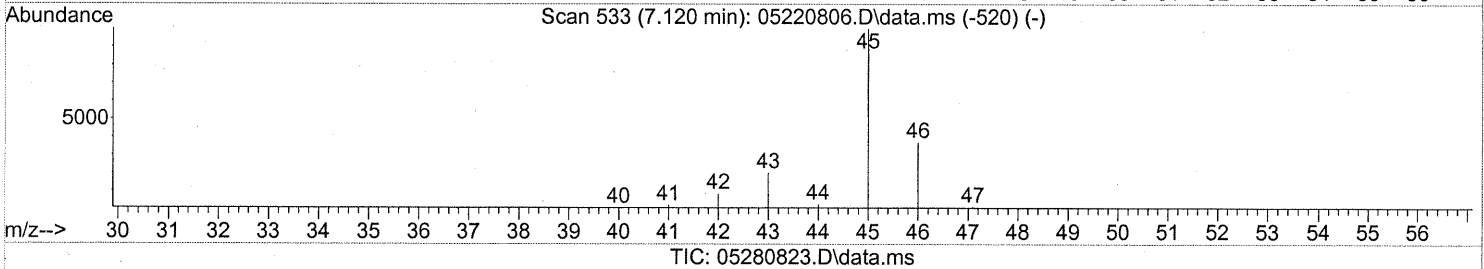
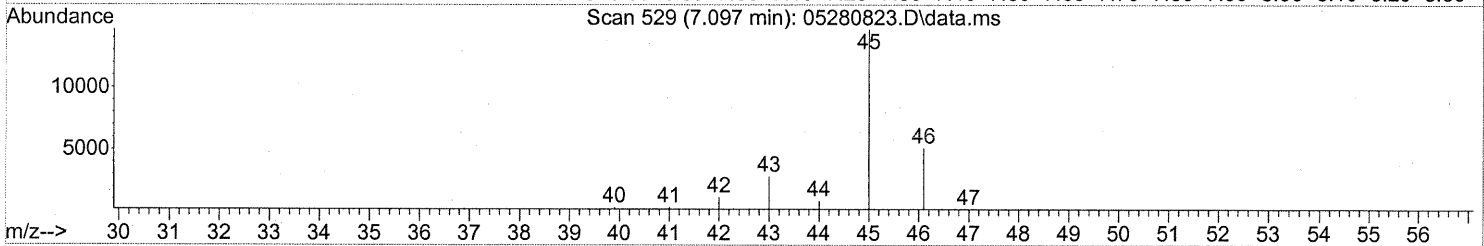
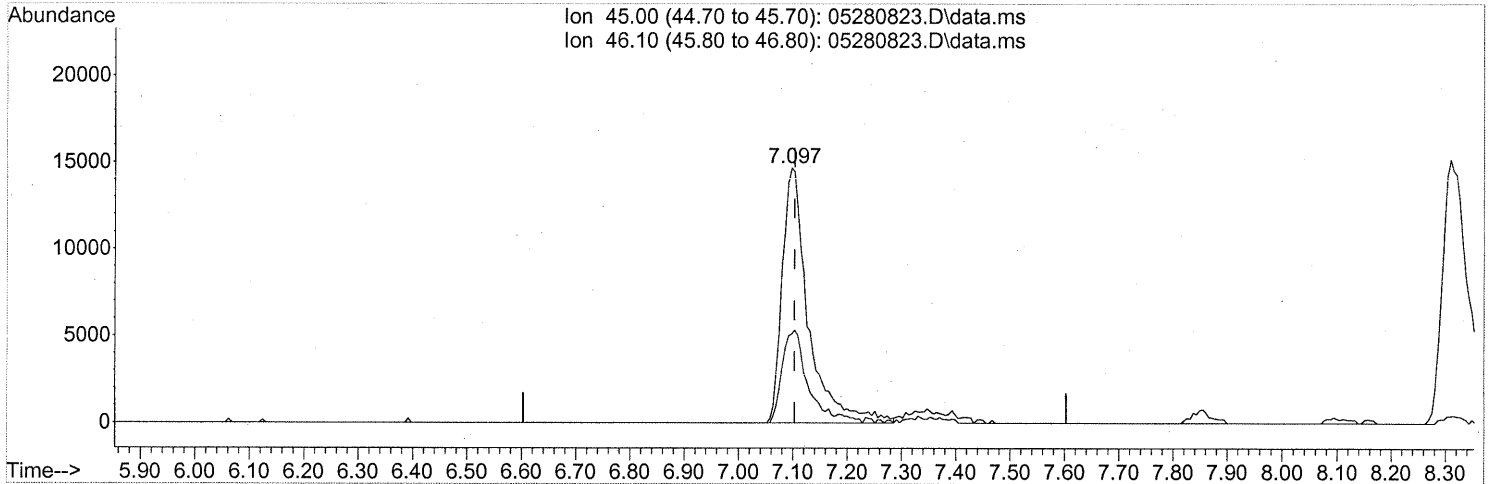
(9) Chloroethane (T)
 6.818min (-0.006) 0.17ng
 response 2498

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	25.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.006) 2.89ng

response 48934

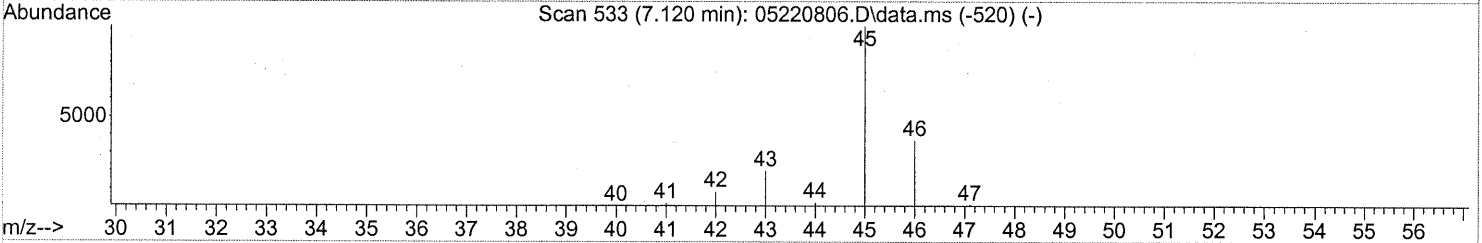
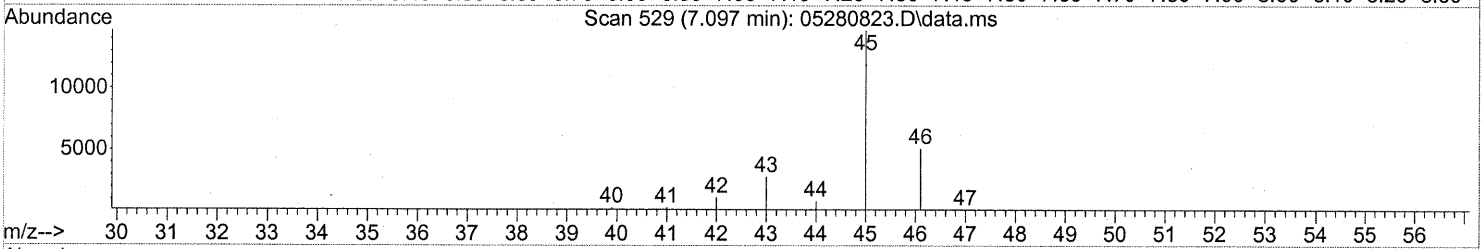
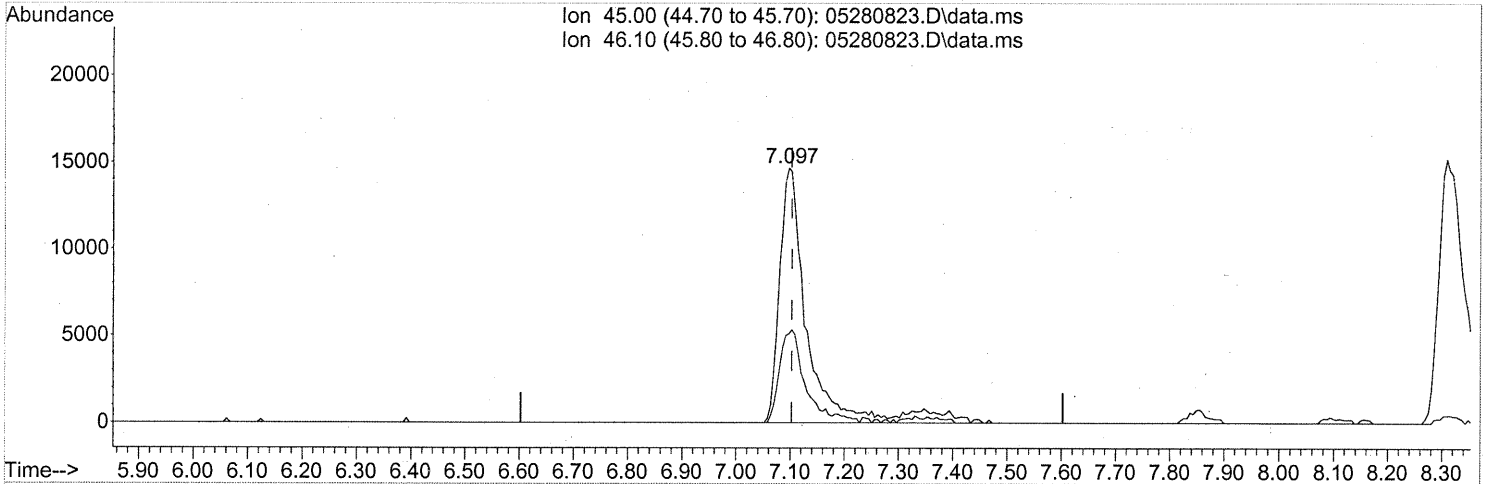
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.06
0.00	0.00	0.00
0.00	0.00	0.00

tailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280823.D
Acq On : 29 May 2008 2:16
Operator : WA
Sample : P0801483-013 (1000ml)
Misc : ENSR SG33B-05 (-6.5, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05280823.D\data.ms

(10) Ethanol (T)

7.097min (-0.006) 3.15ng m

response 53320

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	33.09
0.00	0.00	0.00
0.00	0.00	0.00

incl. tailing

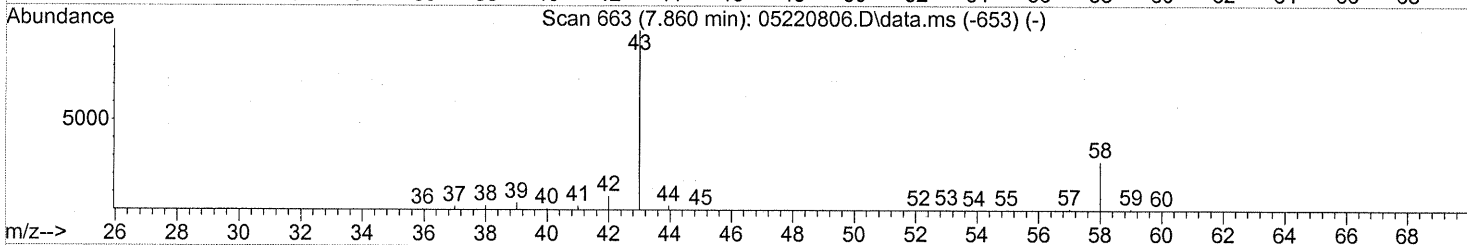
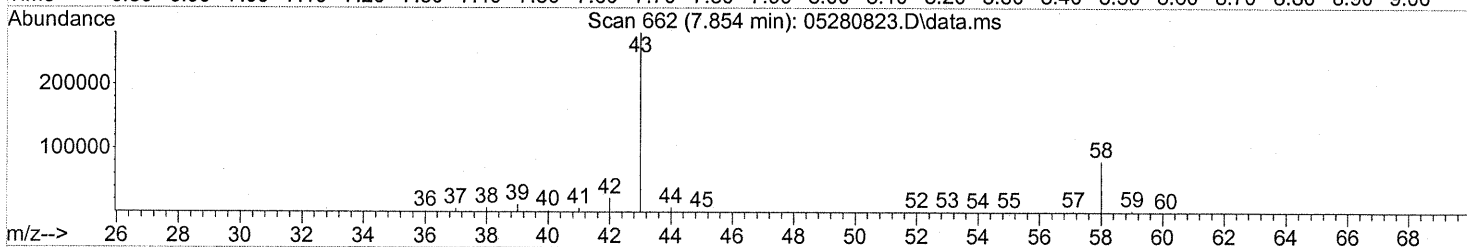
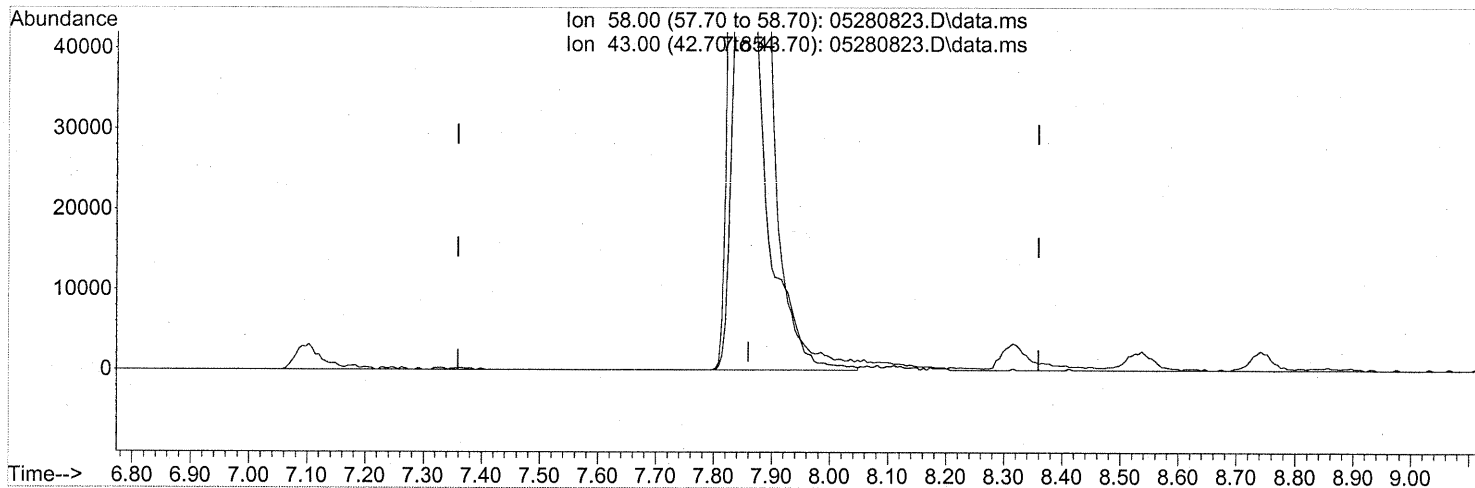
at 5/31/08

ROC/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280823.D
Acq On : 29 May 2008 2:16
Operator : WA
Sample : P0801483-013 (1000ml)
Misc : ENSR SG33B-05 (-6.5, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05280823.D\data.ms

(13) Acetone (T)

7.854min (-0.006) 14.22ng

response 246408

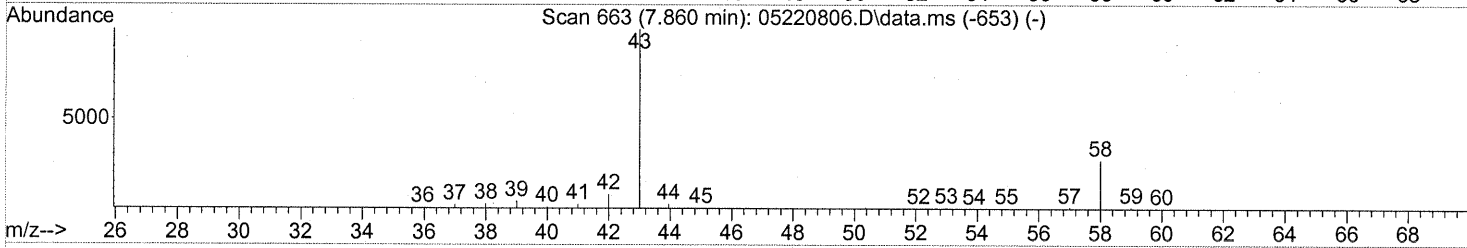
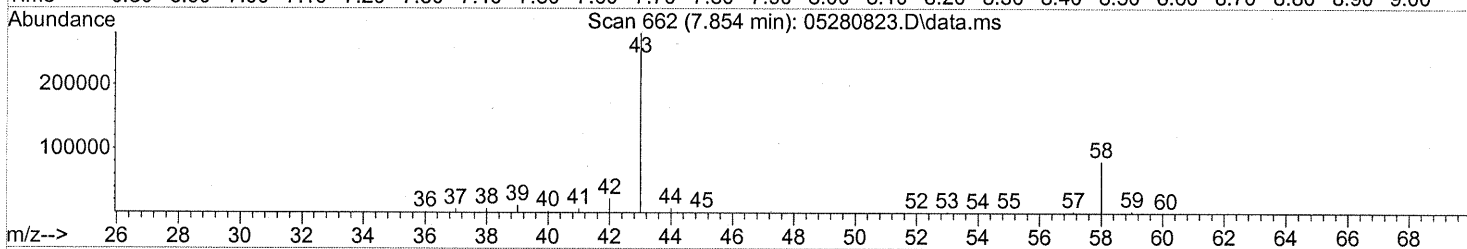
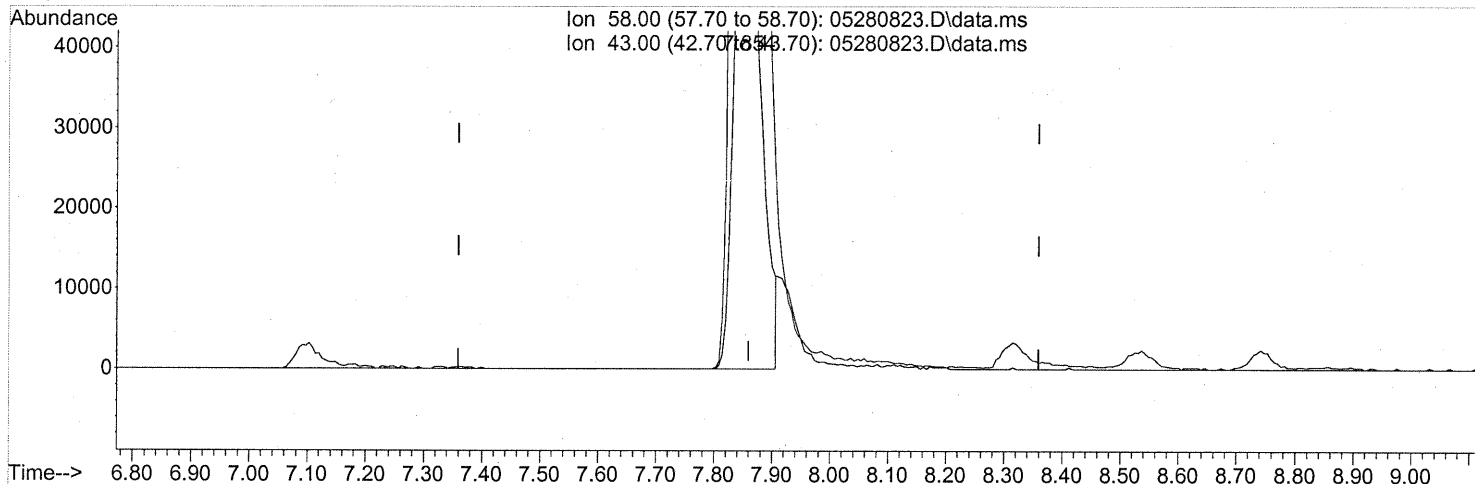
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	330.18#
0.00	0.00	0.00
0.00	0.00	0.00

interf. shoulder

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(13) Acetone (T)
 7.854min (-0.006) 12.65ng m
 response 219278

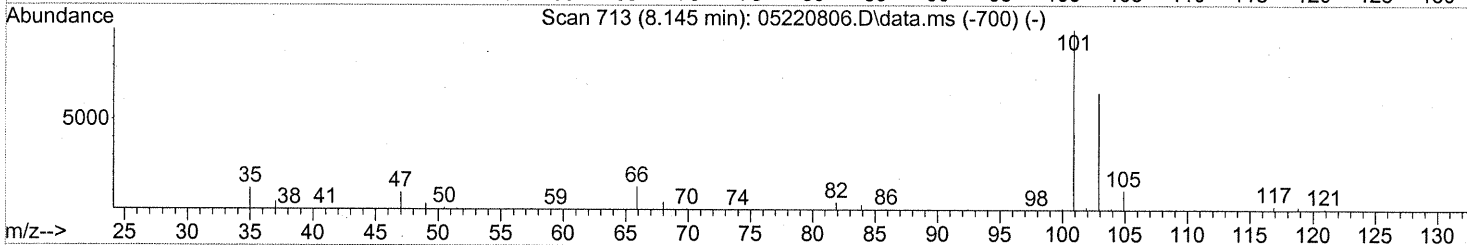
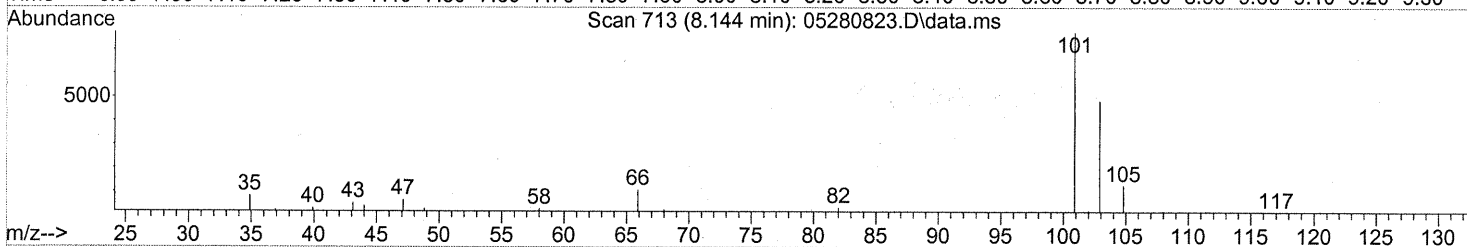
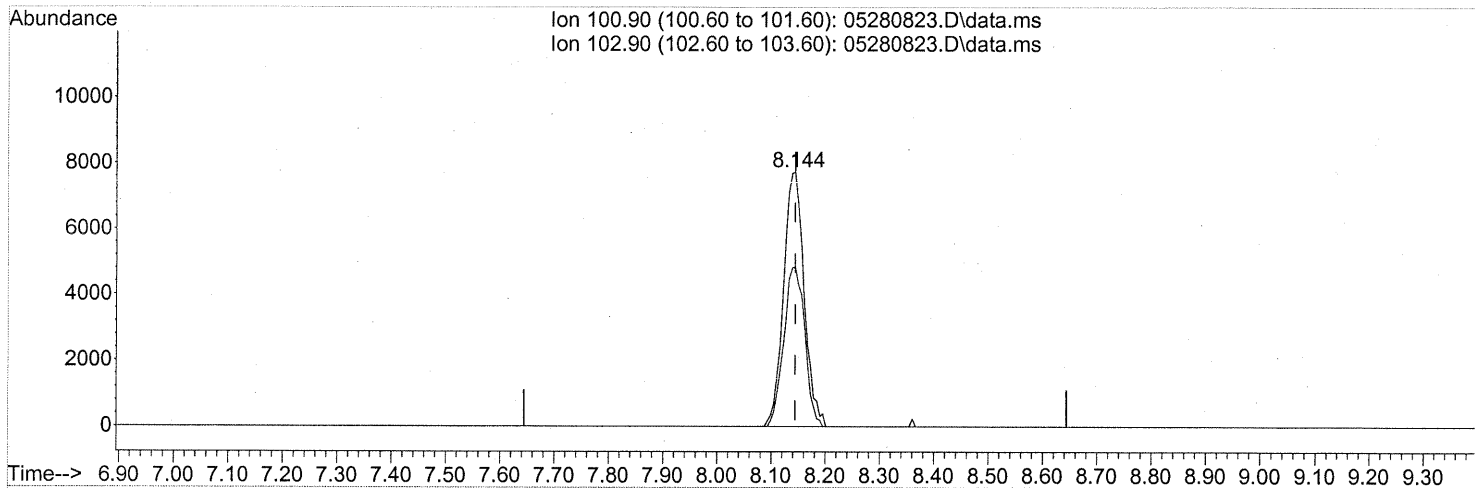
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	371.03#
0.00	0.00	0.00
0.00	0.00	0.00

100% shoulder
for 5/31/08
P. G. 2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(14) Trichlorofluoromethane (T)

8.144min (-0.000) 0.51ng

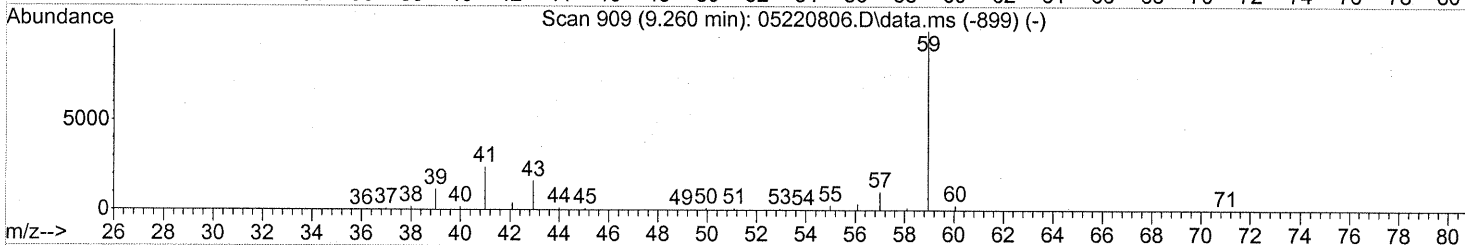
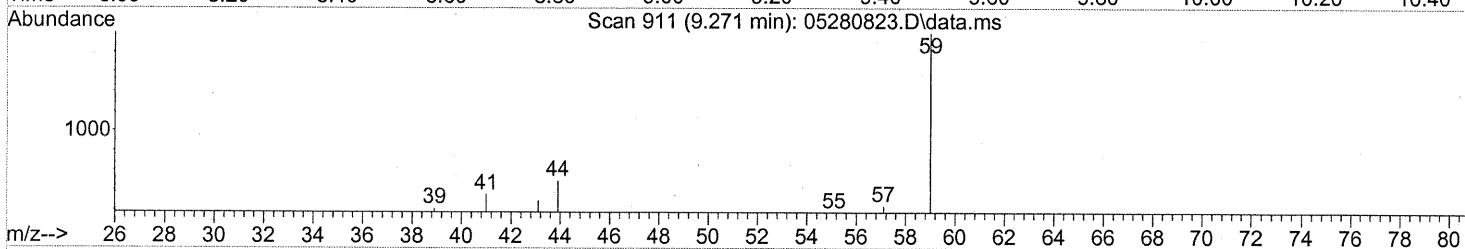
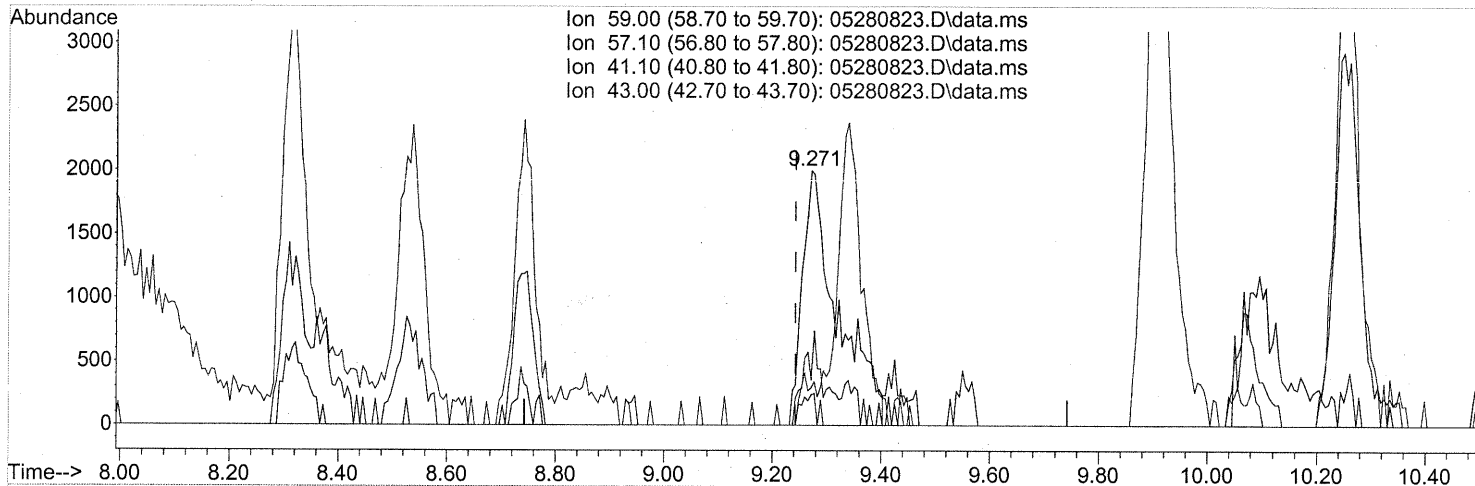
response 20387

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	63.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(18) tert-Butanol (T)

9.271min (+0.028) 0.19ng

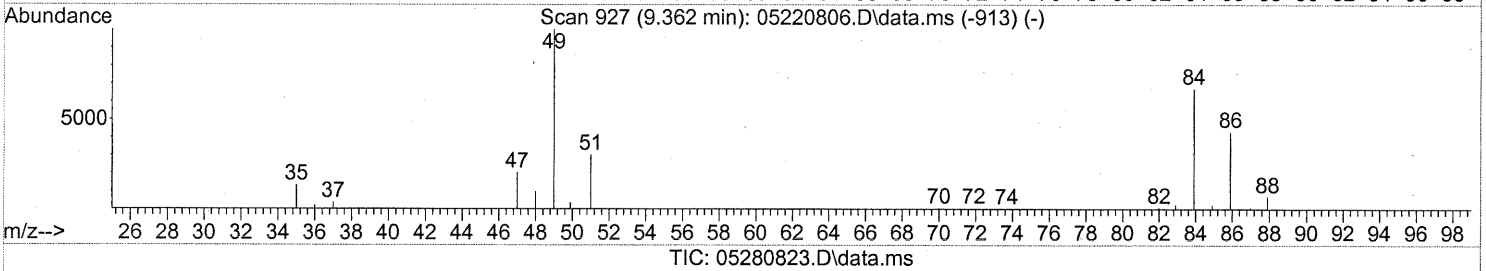
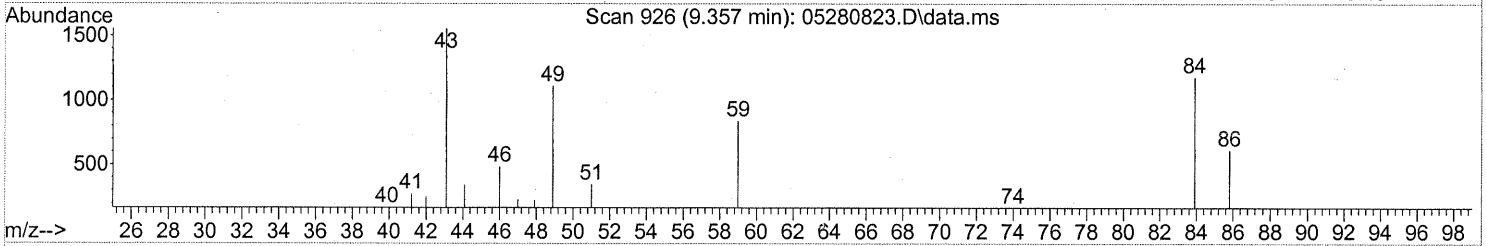
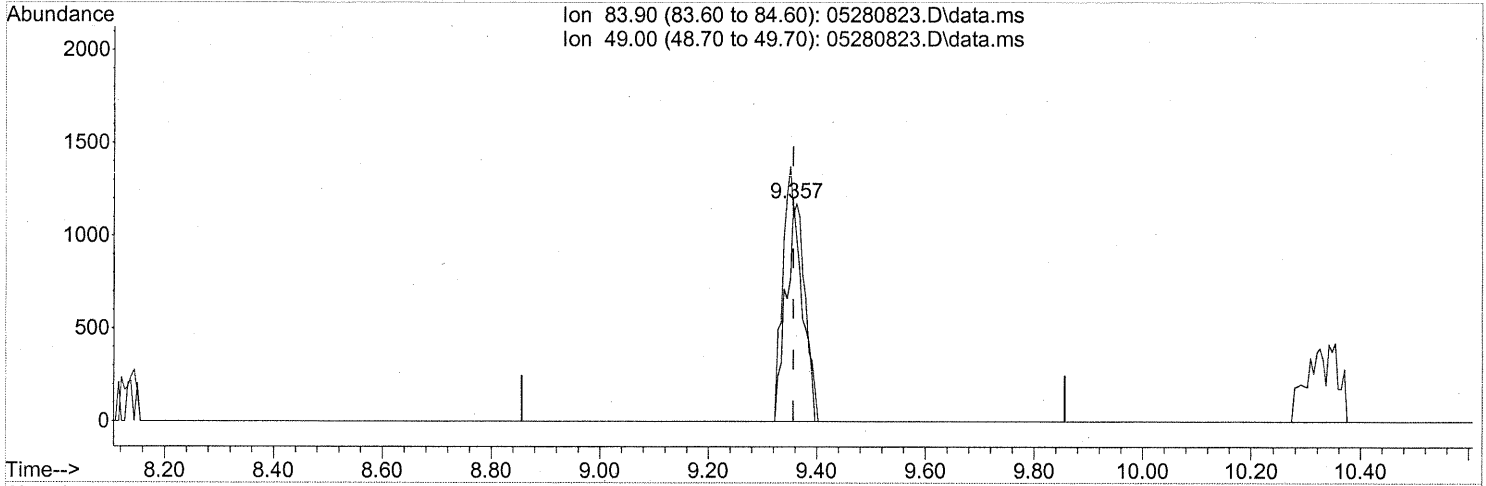
response 8958

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	5.38
41.10	20.10	8.50
43.00	12.30	7.77

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (-0.000) 0.13ng

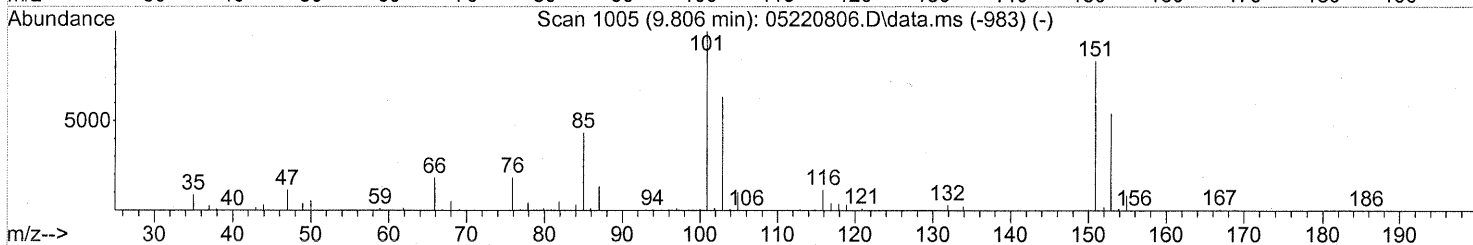
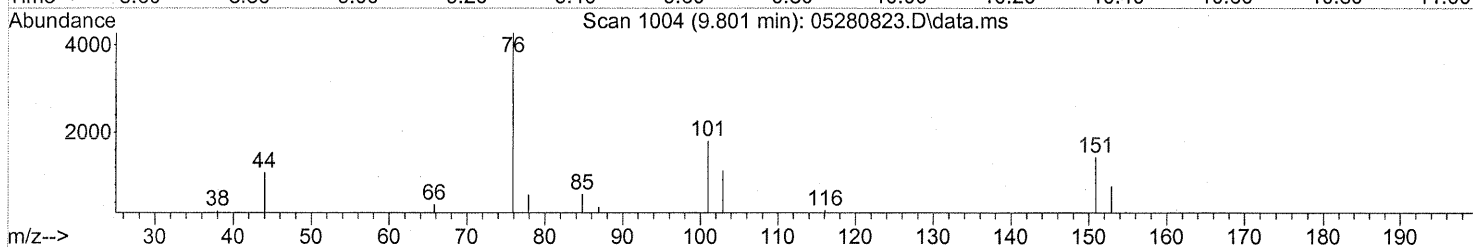
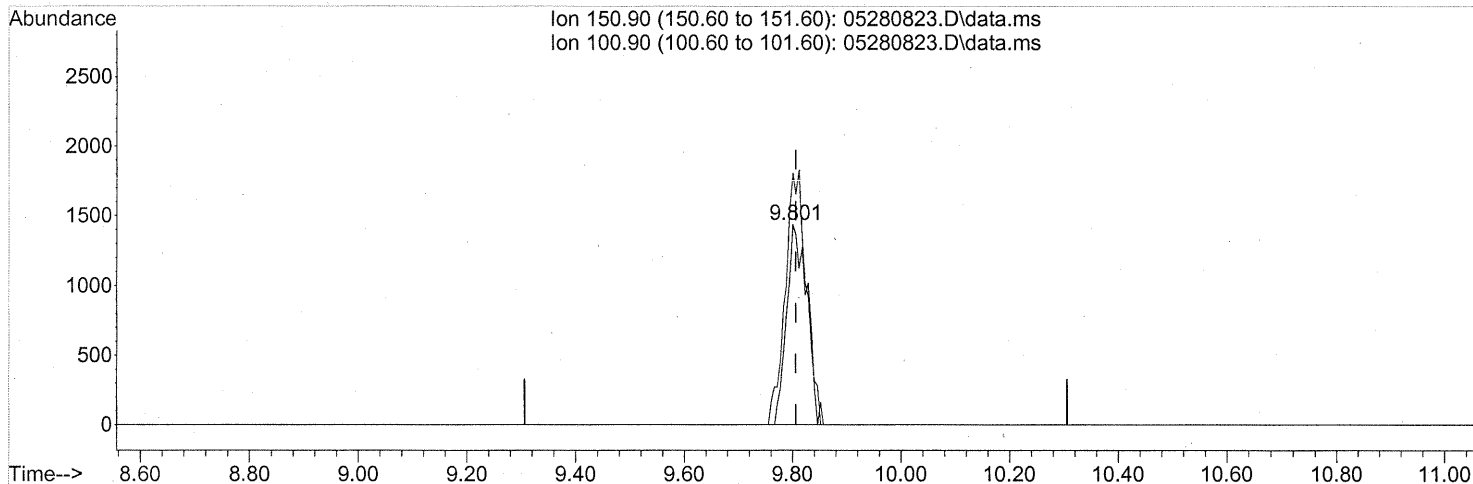
response 2519

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	139.30#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:38:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.801min (-0.006) 0.20ng

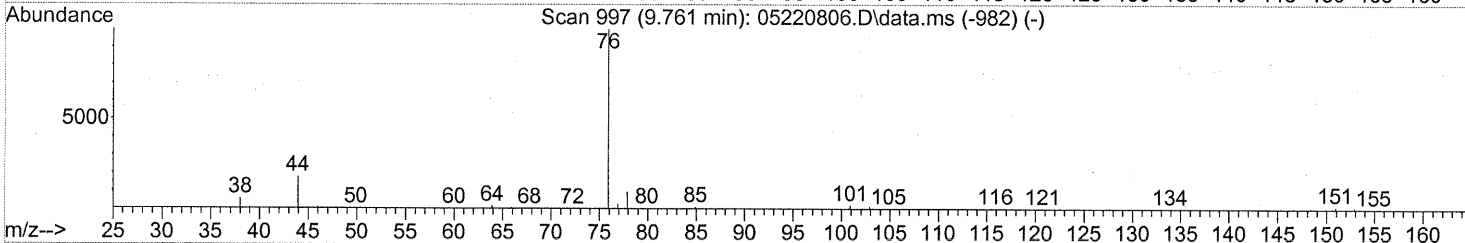
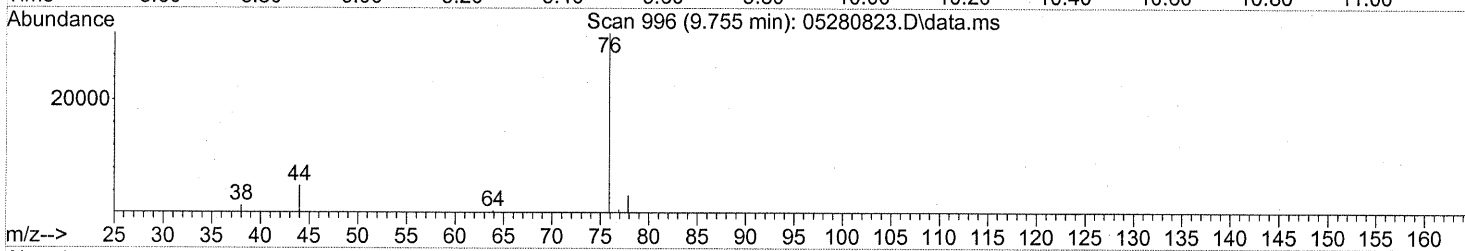
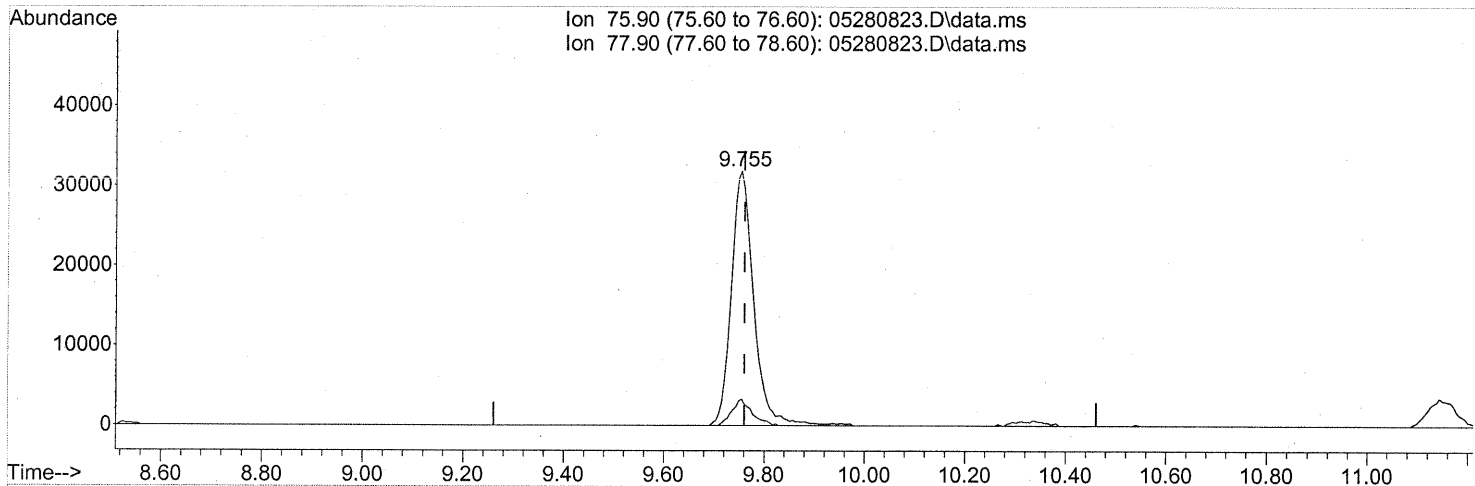
response 3747

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	129.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(22) Carbon Disulfide (T)

9.755min (-0.006) 1.33ng

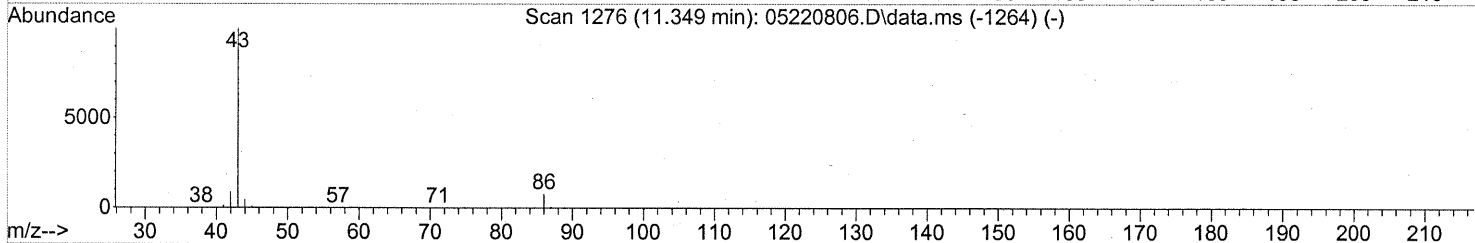
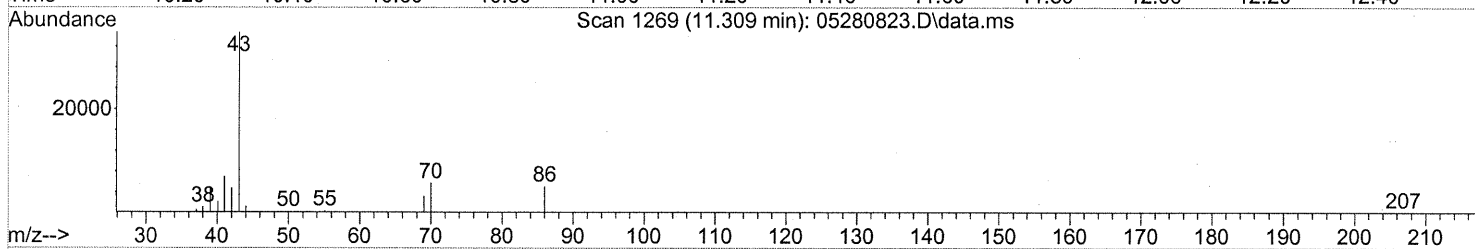
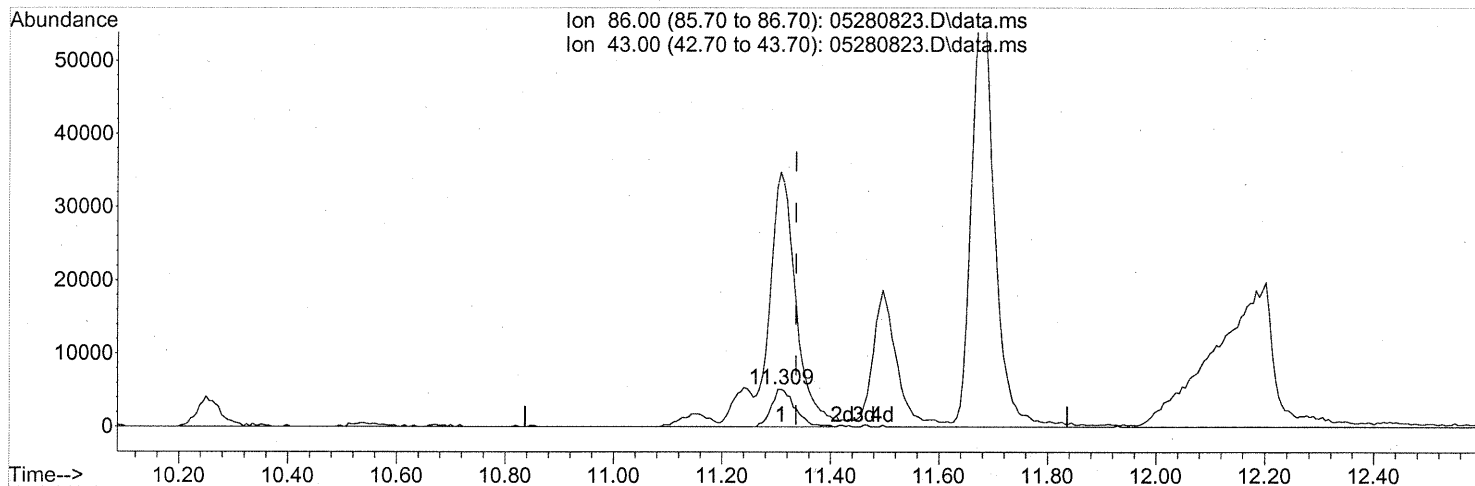
response 97996

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(26) Vinyl Acetate (T)

11.309min (-0.028) 4.82ng

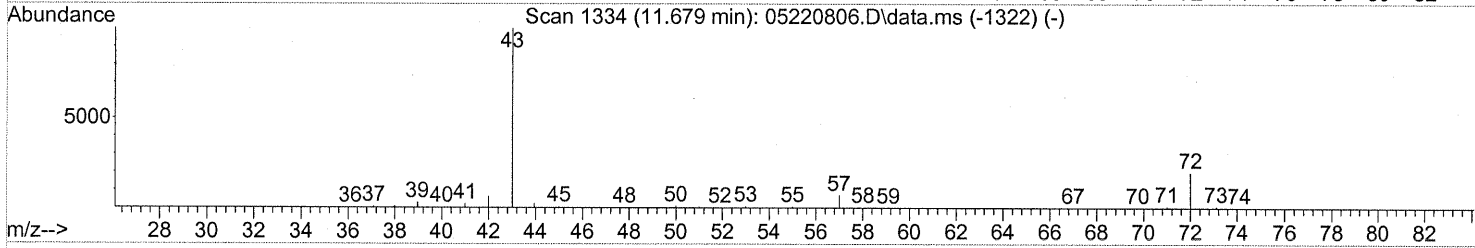
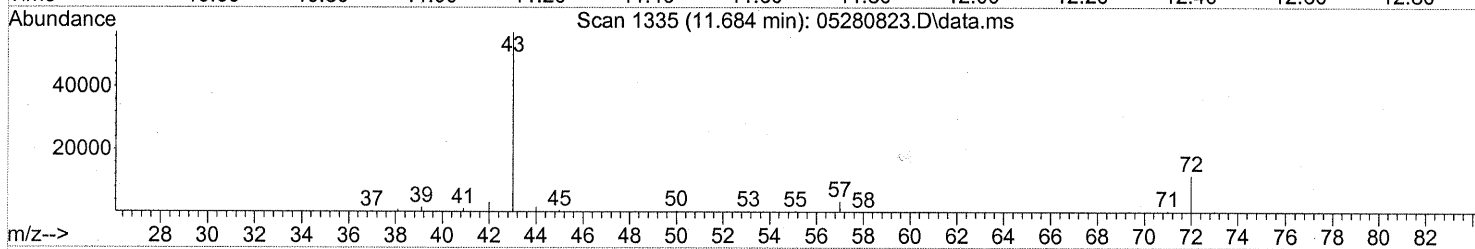
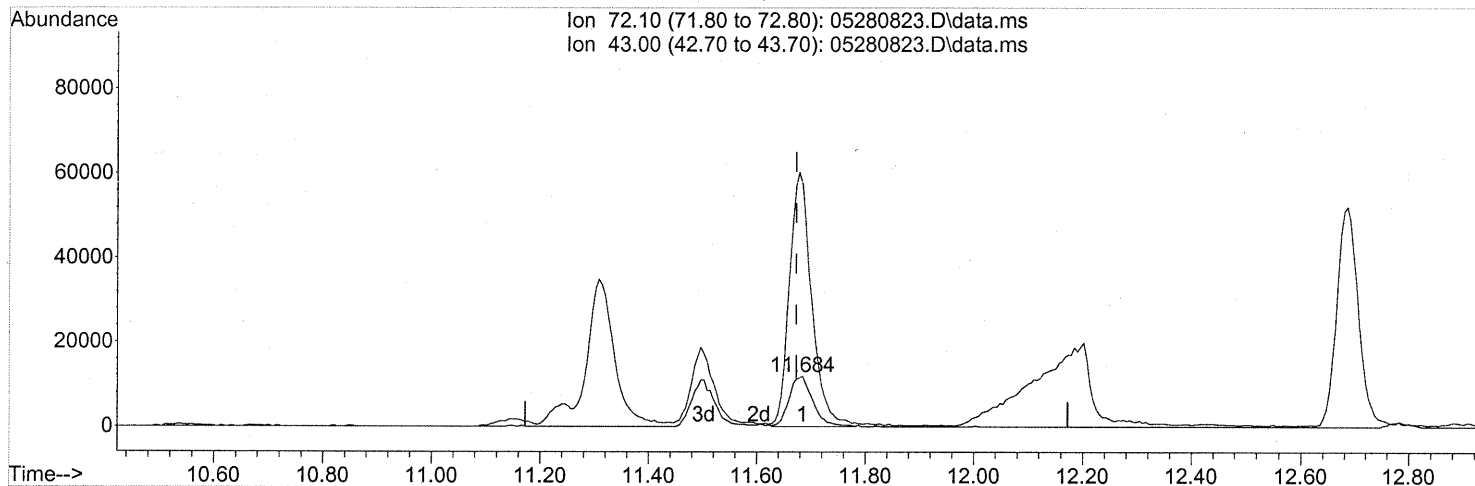
response 15438

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	740.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.684min (+0.011) 2.80ng

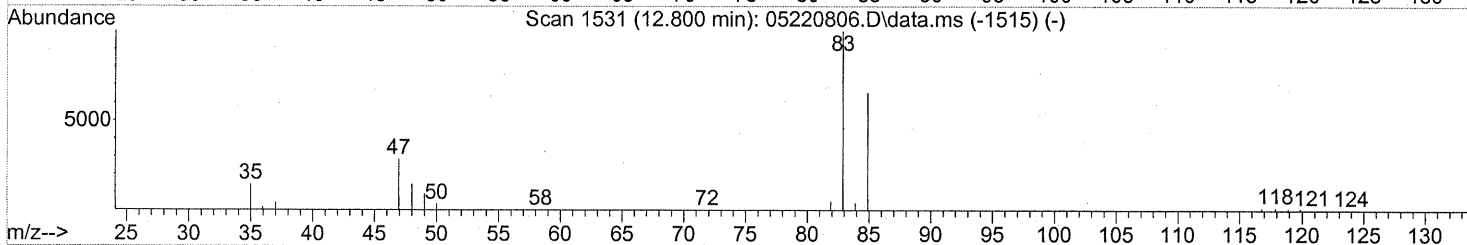
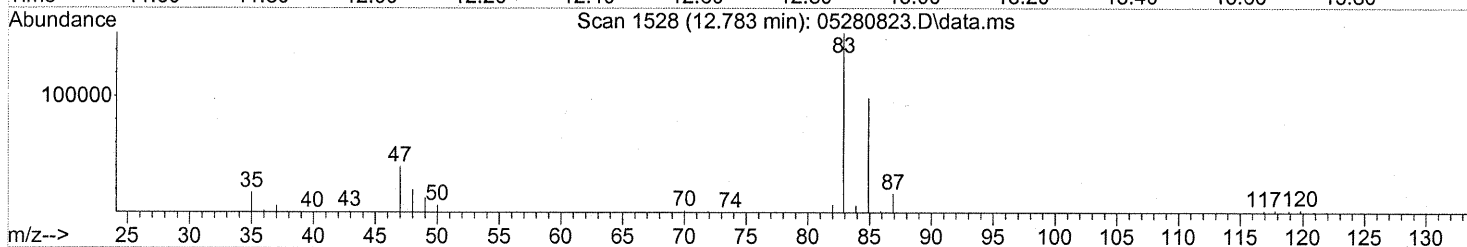
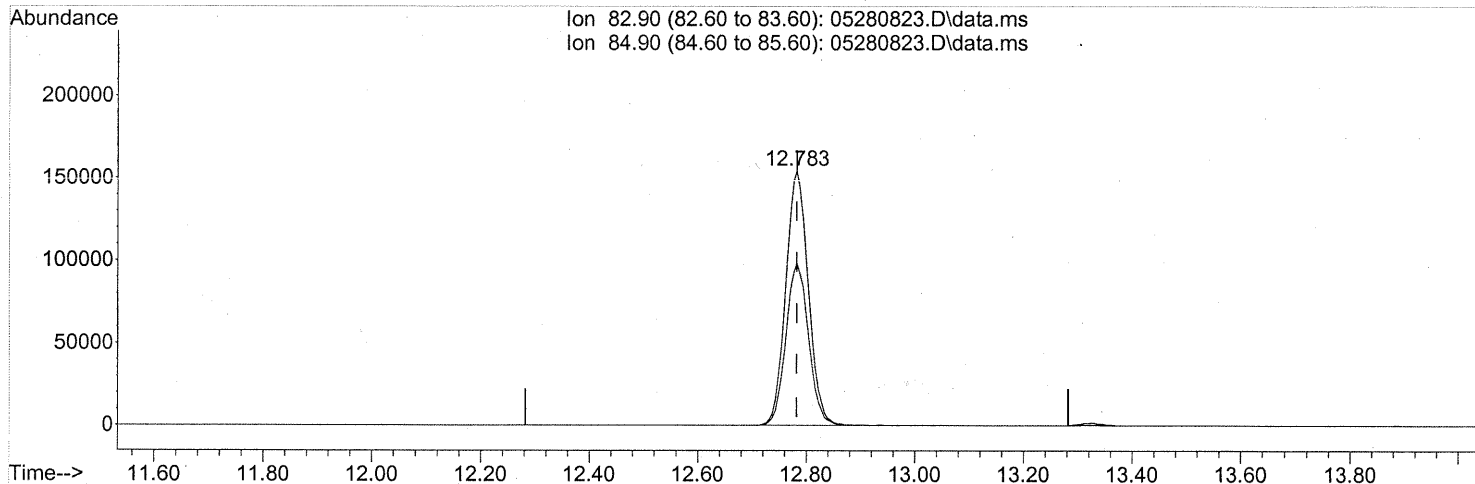
response 35440

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	478.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

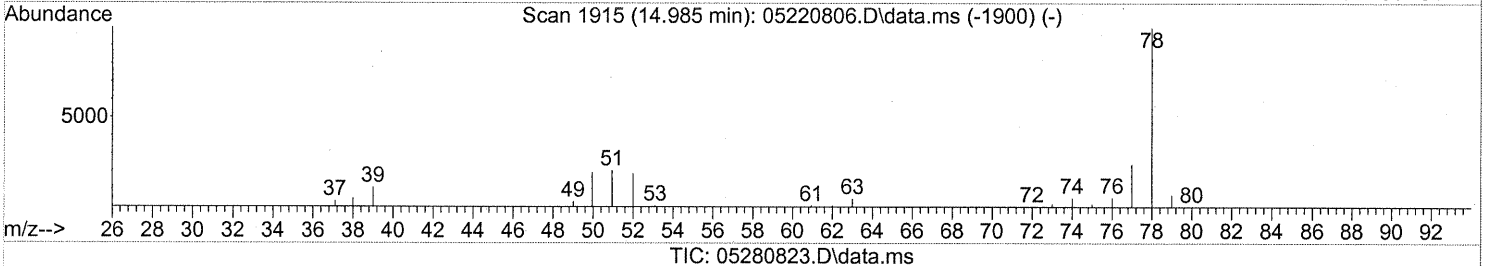
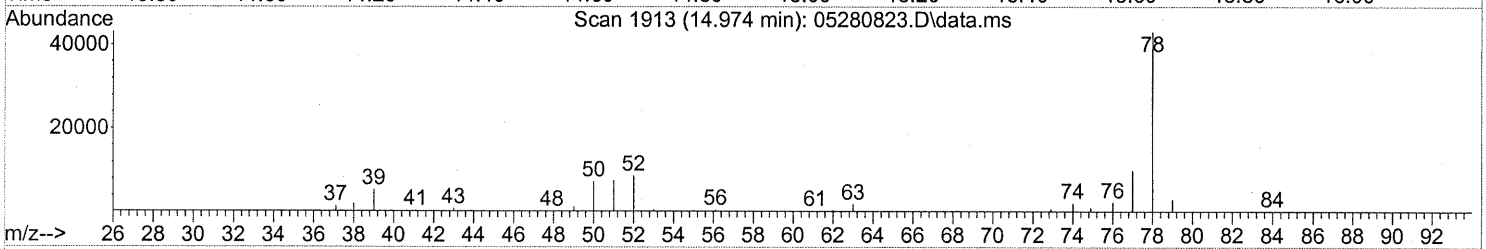
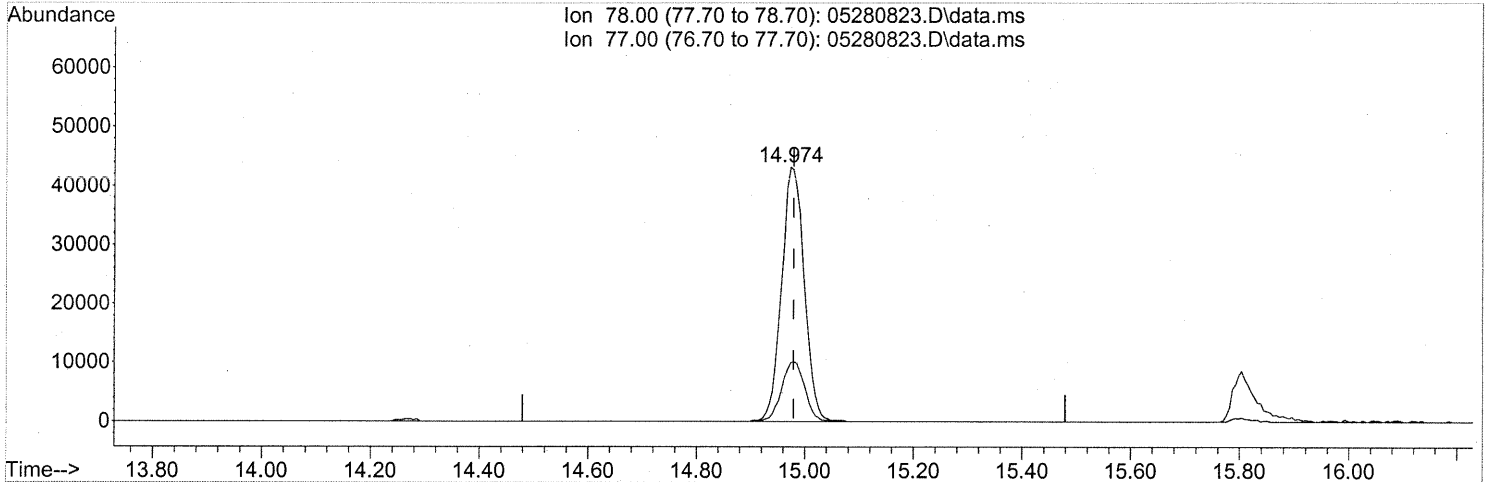
(32) Chloroform (T)
 12.783min (-0.000) 15.09ng
 response 442983

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



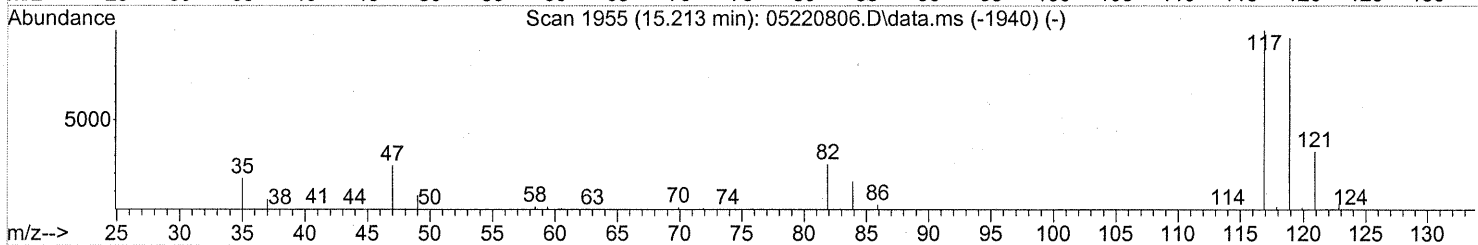
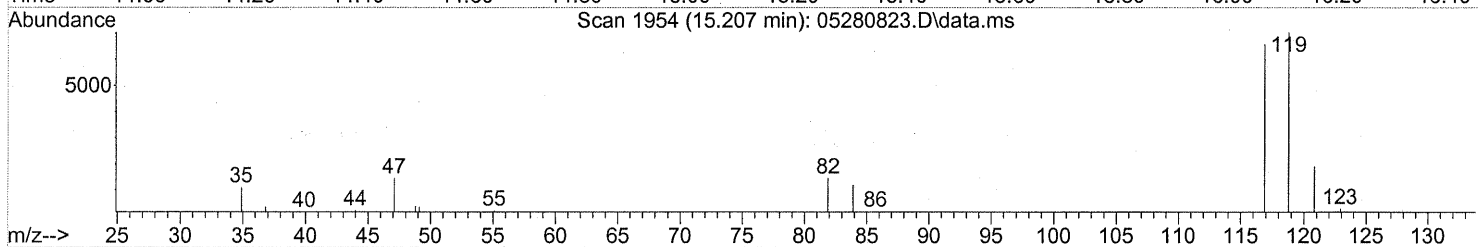
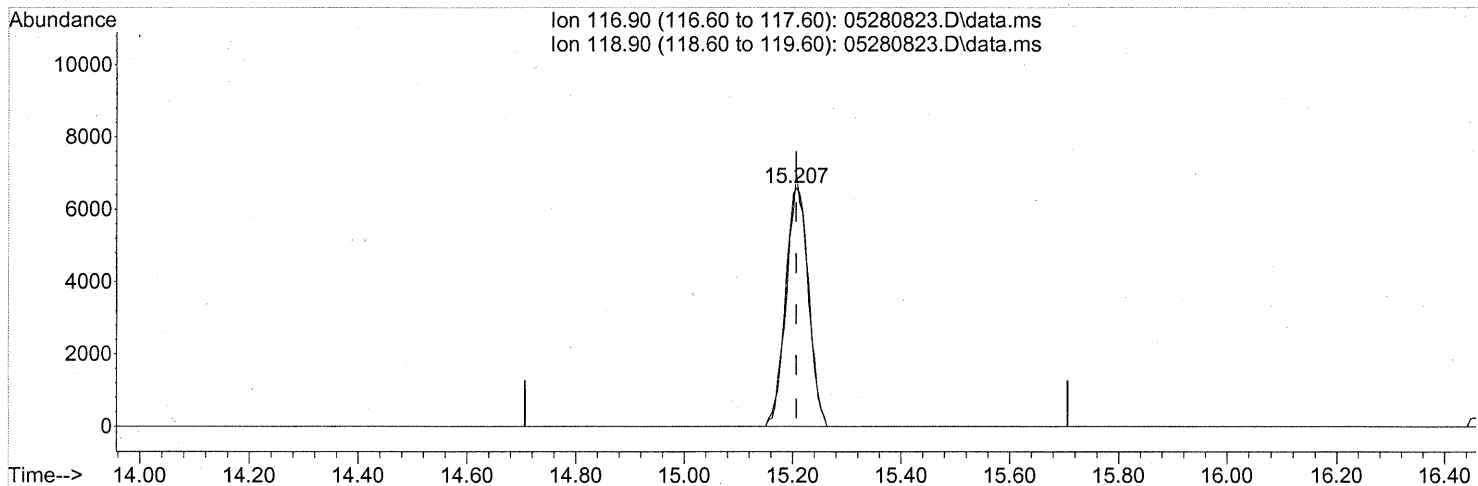
(41) Benzene (T)
 14.974min (-0.006) 1.72ng
 response 124789

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(42) Carbon Tetrachloride (T)

15.207min (-0.000) 0.69ng

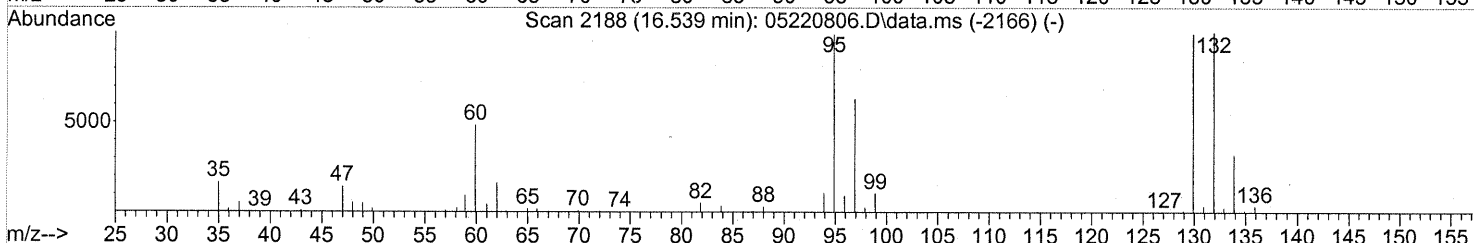
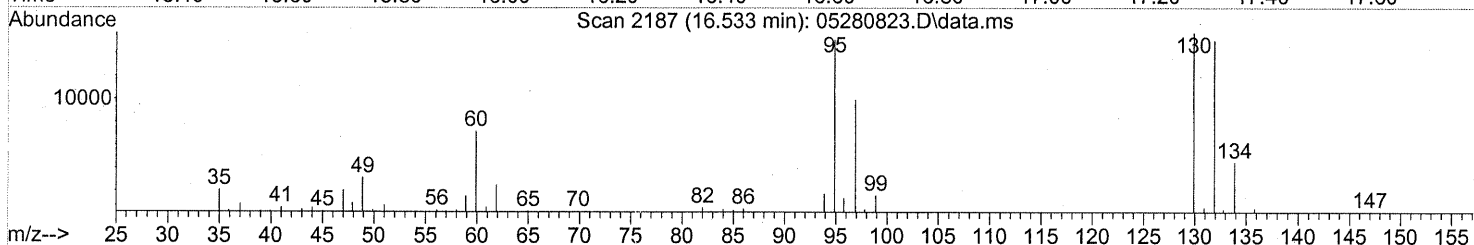
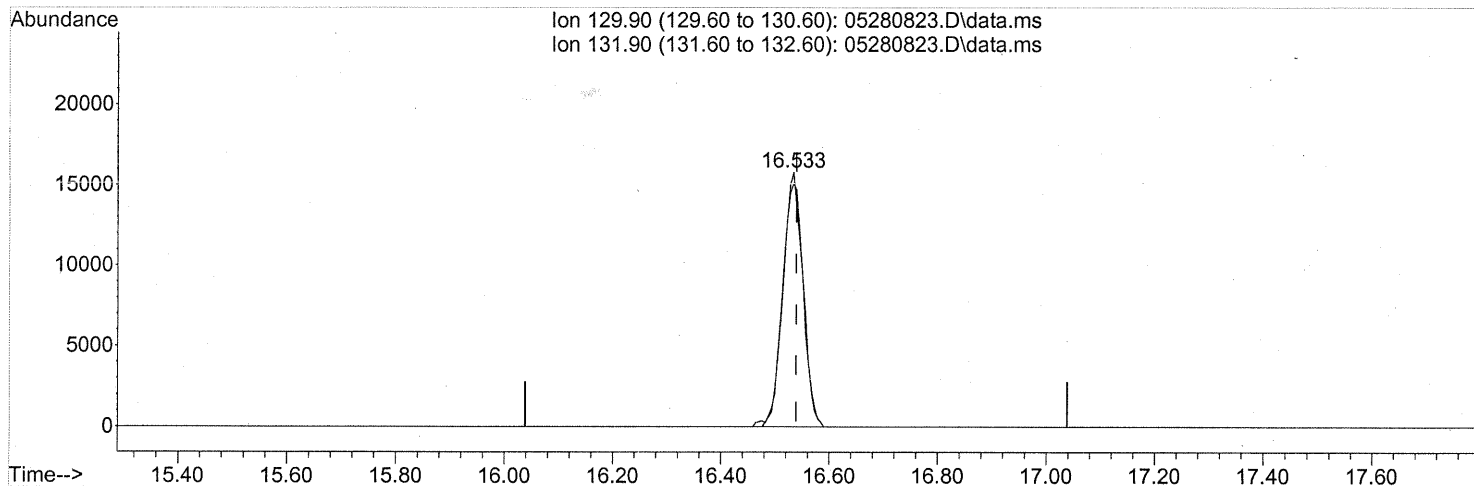
response 19356

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	98.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

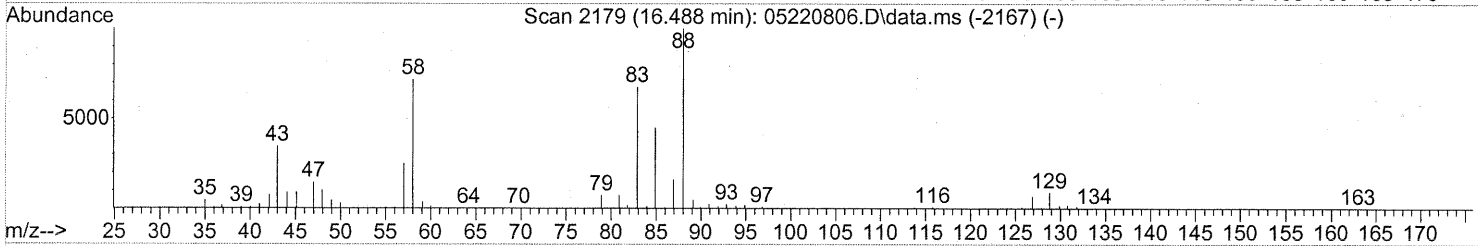
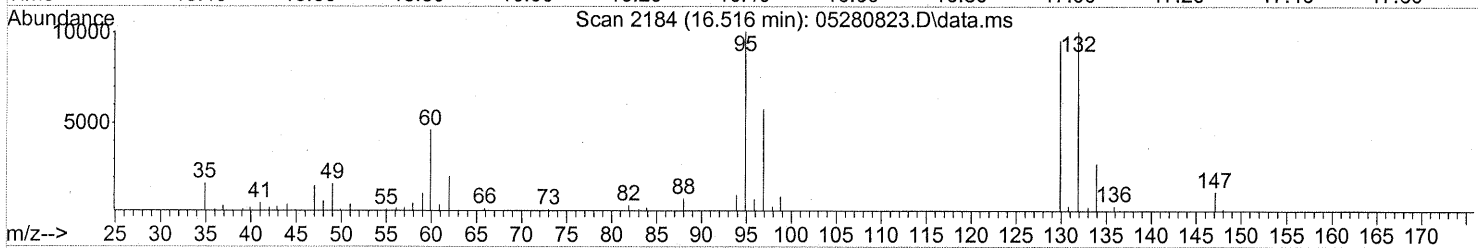
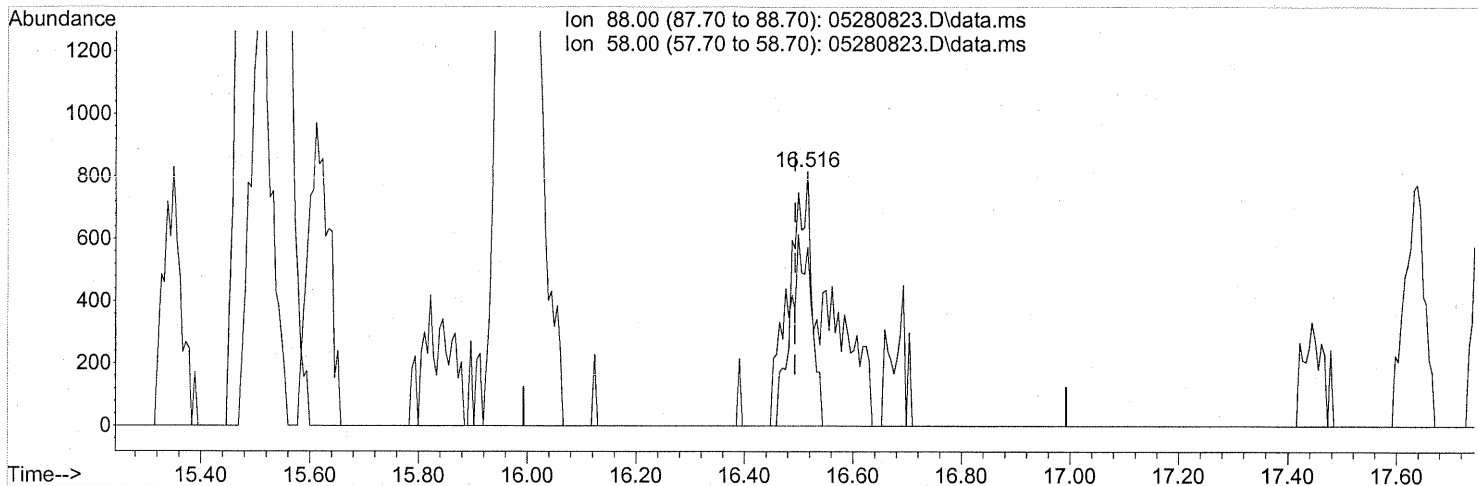
(47) Trichloroethene (T)
 16.533min (-0.006) 1.78ng
 response 39458

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	103.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:38:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)
 16.516min (+0.023) 0.15ng
 response 2001

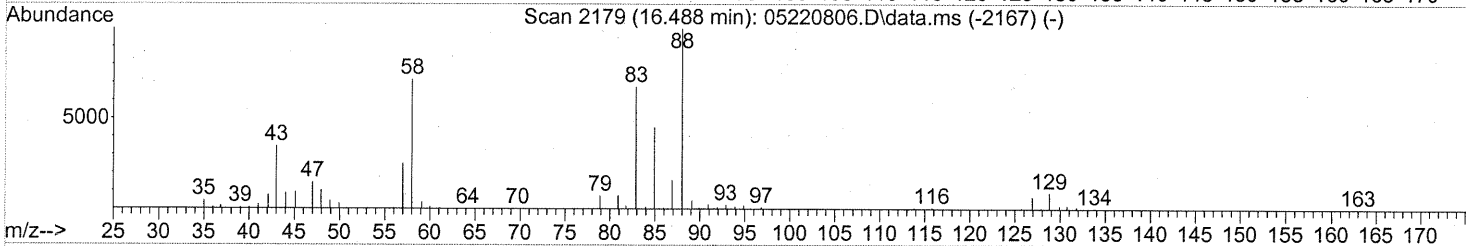
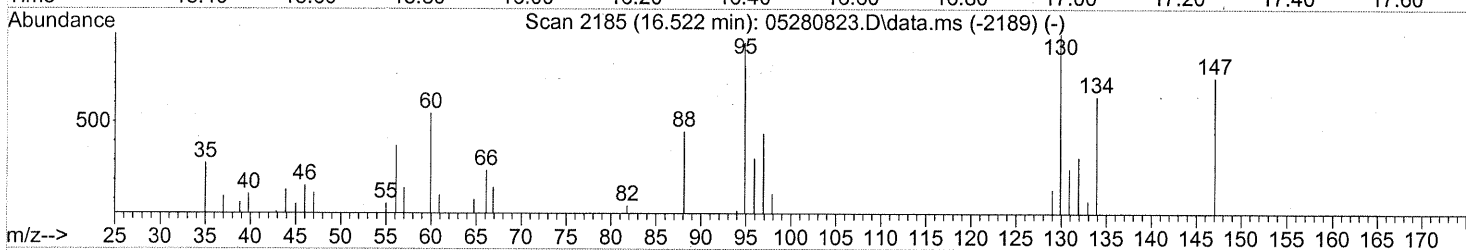
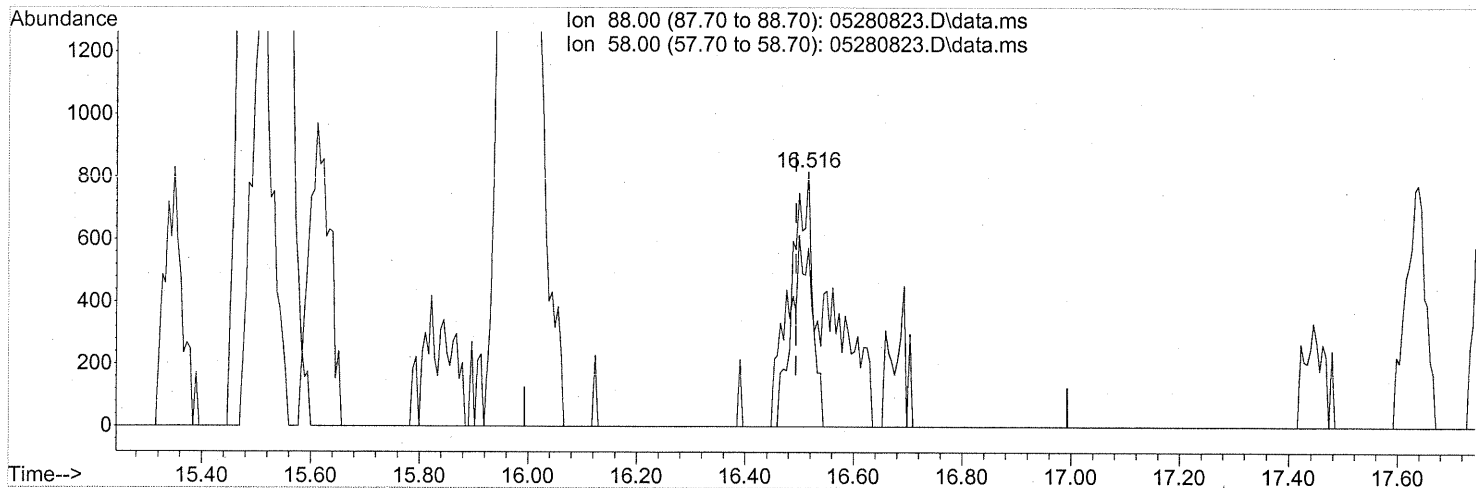
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	103.90
0.00	0.00	0.00
0.00	0.00	0.00

before

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:38:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(48) 1,4-Dioxane (T)
 16.516min (+0.023) 0.15ng
 response 2001

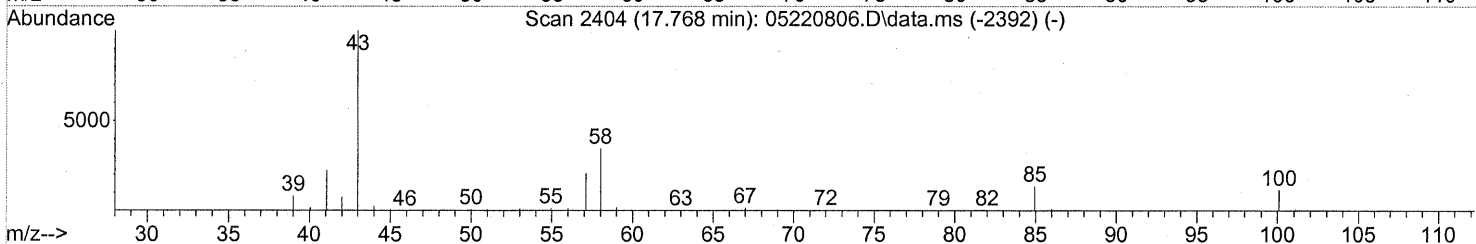
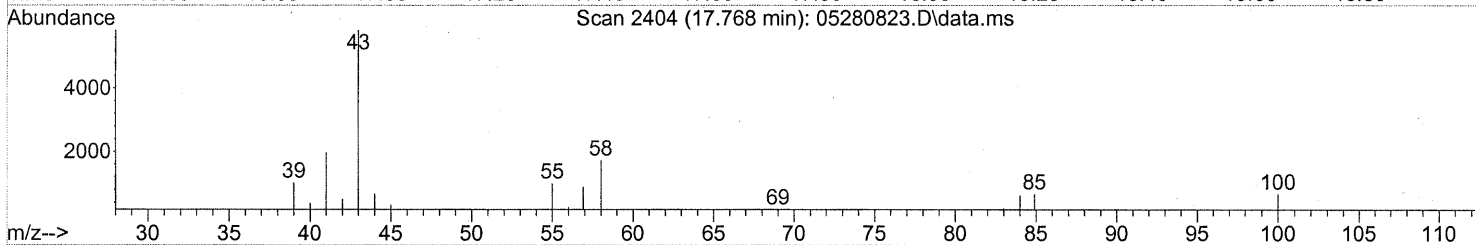
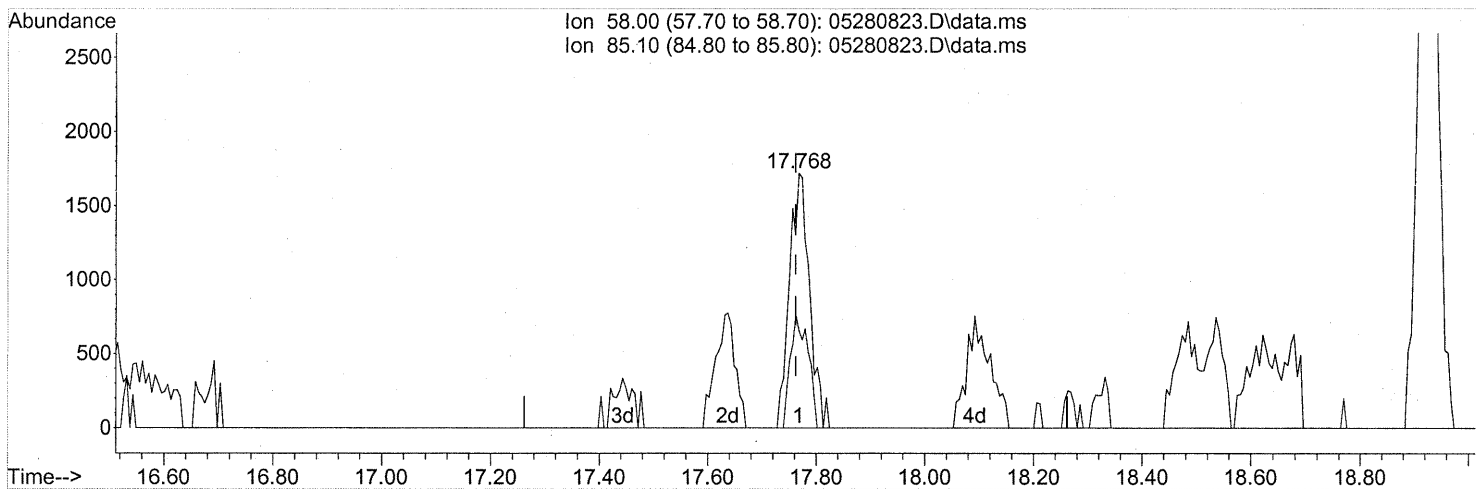
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	103.90
0.00	0.00	0.00
0.00	0.00	0.00

after substr.

JA 6/3/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.768min (+0.006) 0.23ng

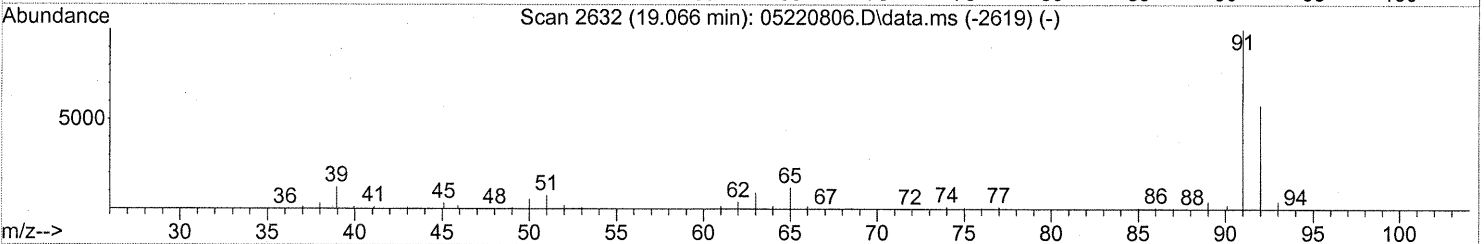
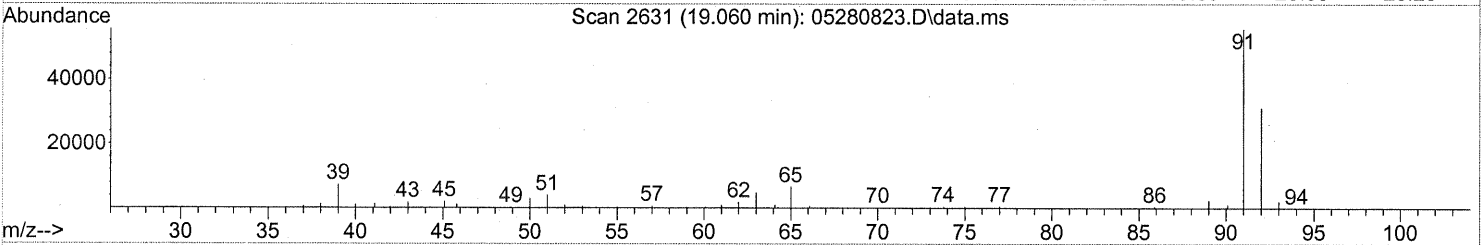
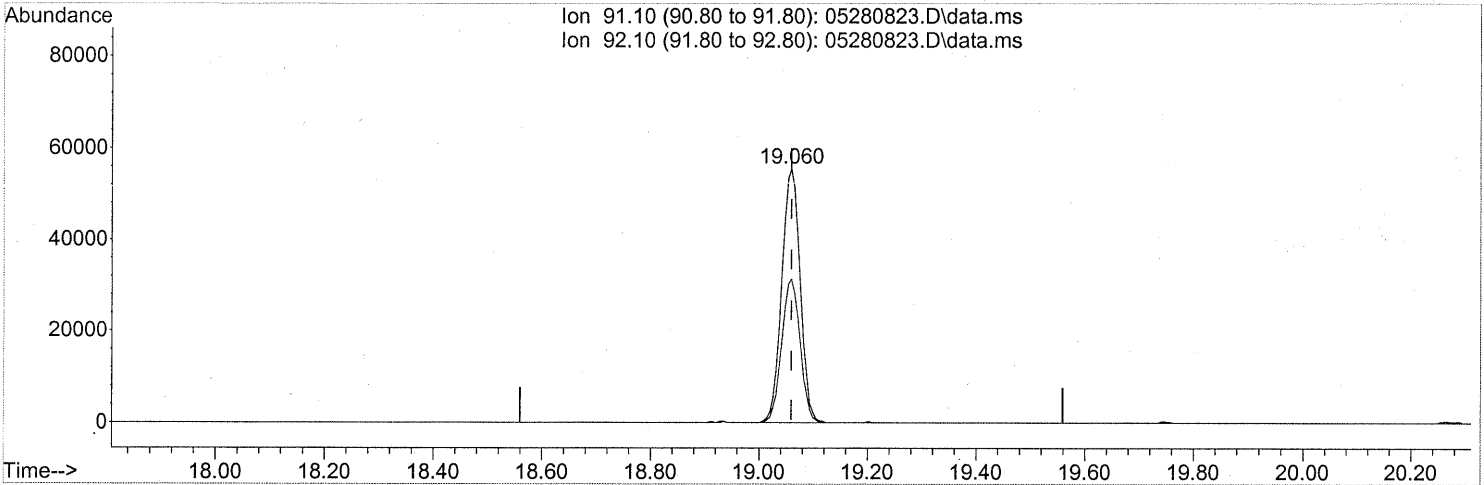
response 4383

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	39.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

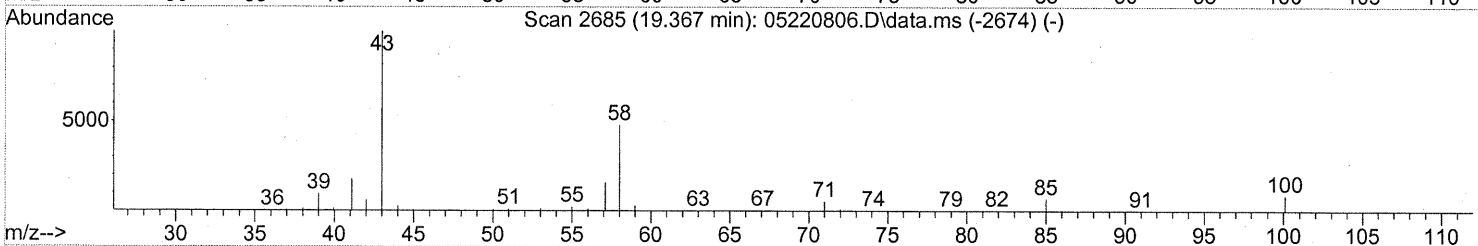
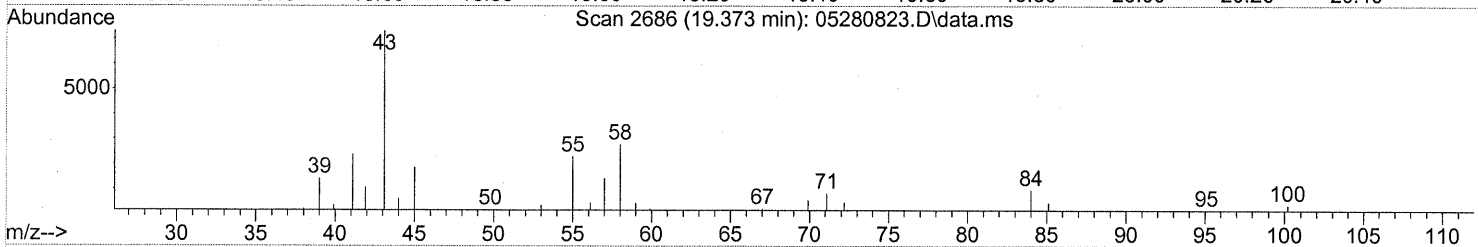
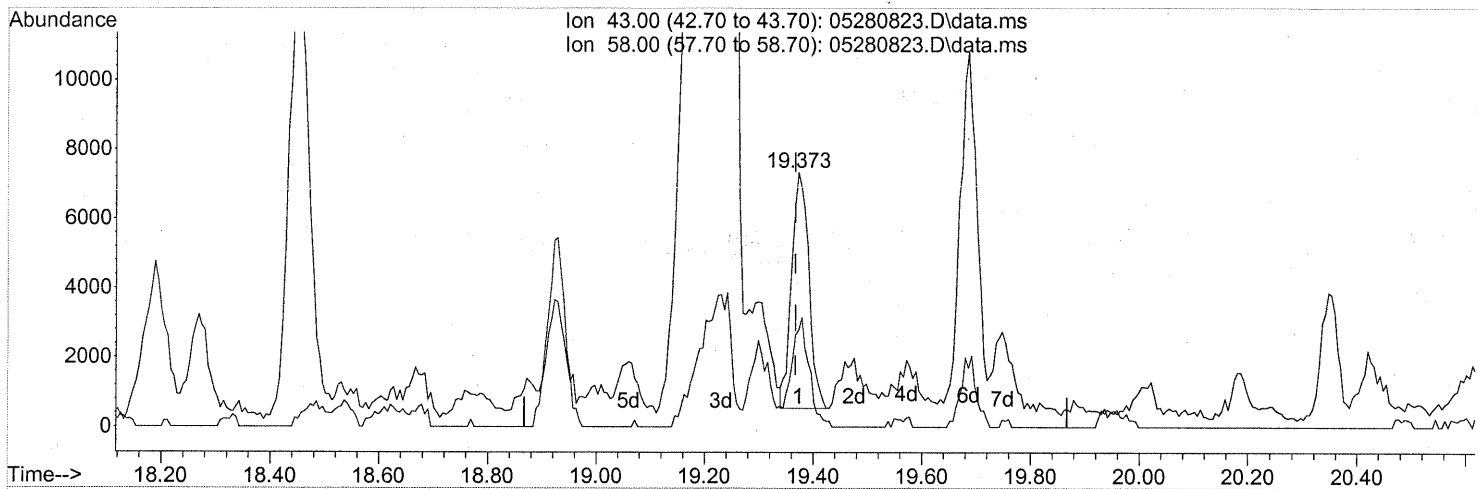


(58) Toluene (T)
 19.060min (-0.000) 1.65ng
 response 130243

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	56.37
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



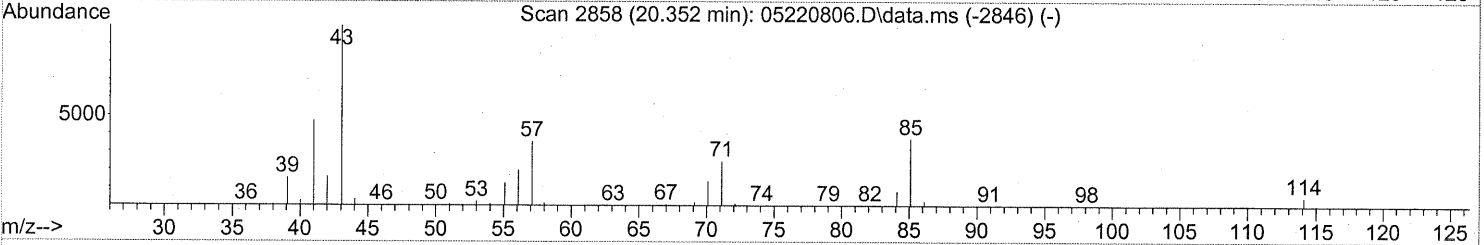
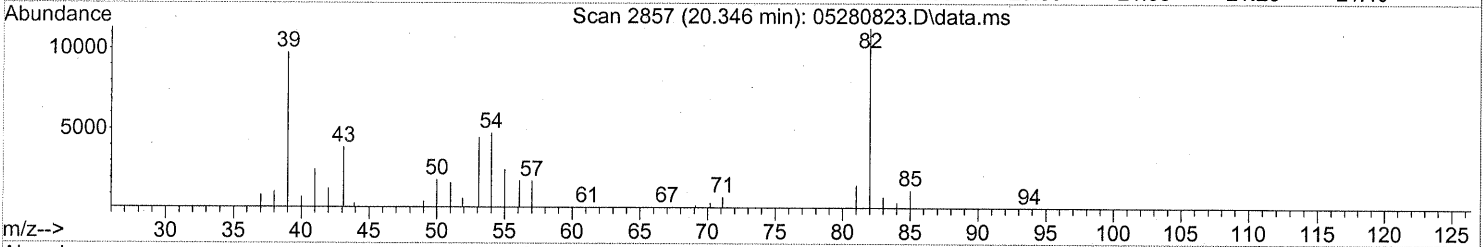
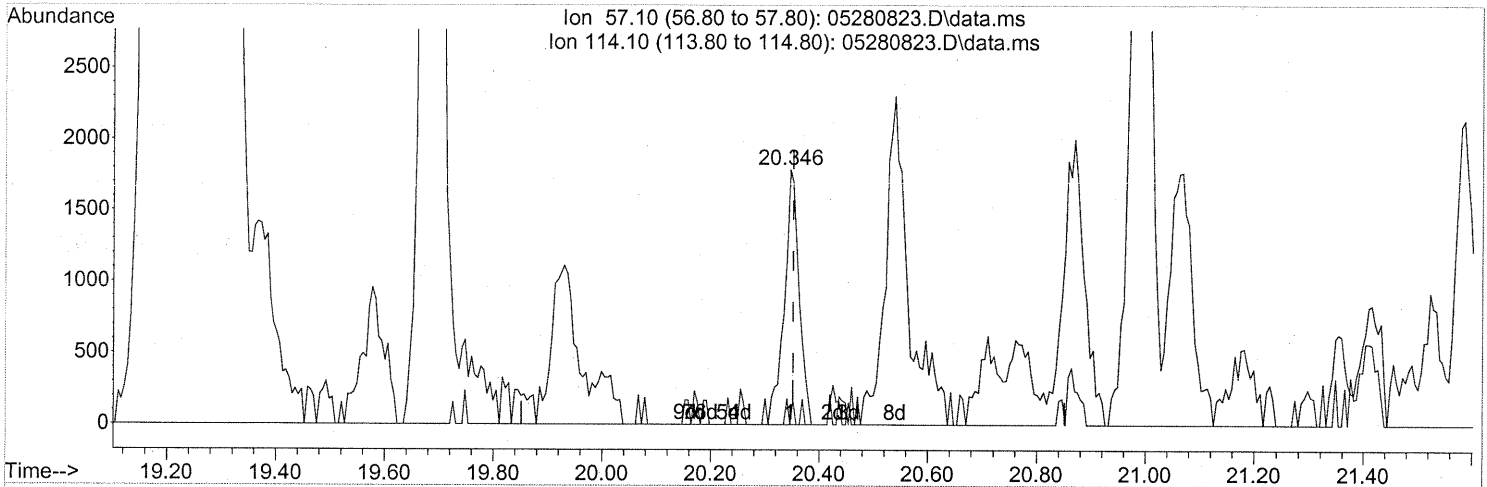
(59) 2-Hexanone (T)
 19.373min (+0.006) 0.28ng
 response 14996

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	46.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:38:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

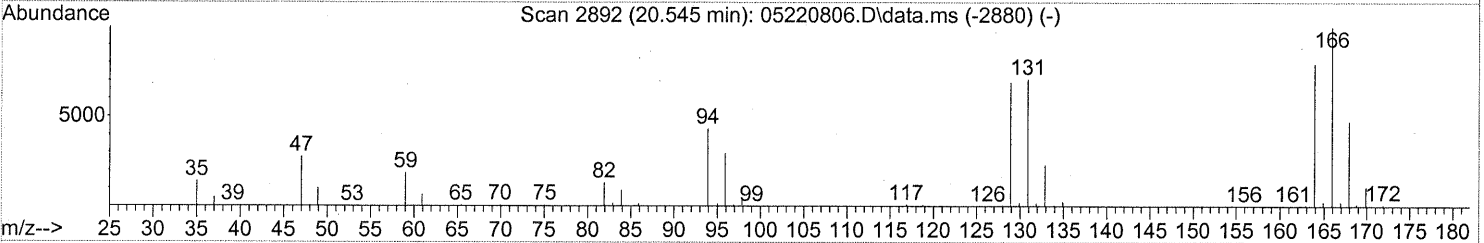
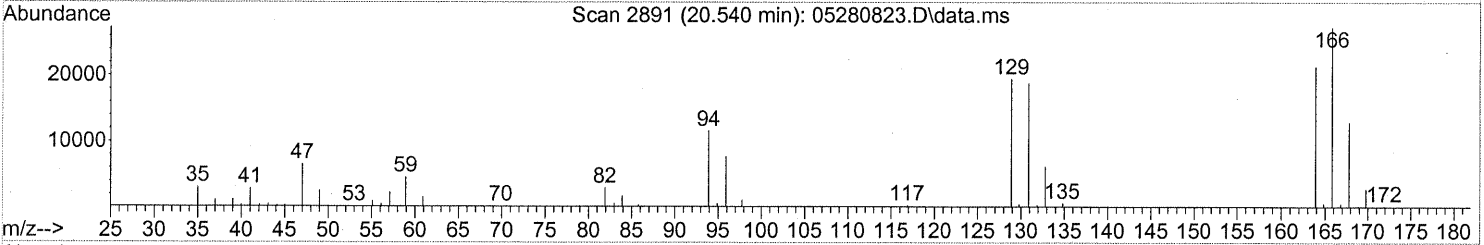
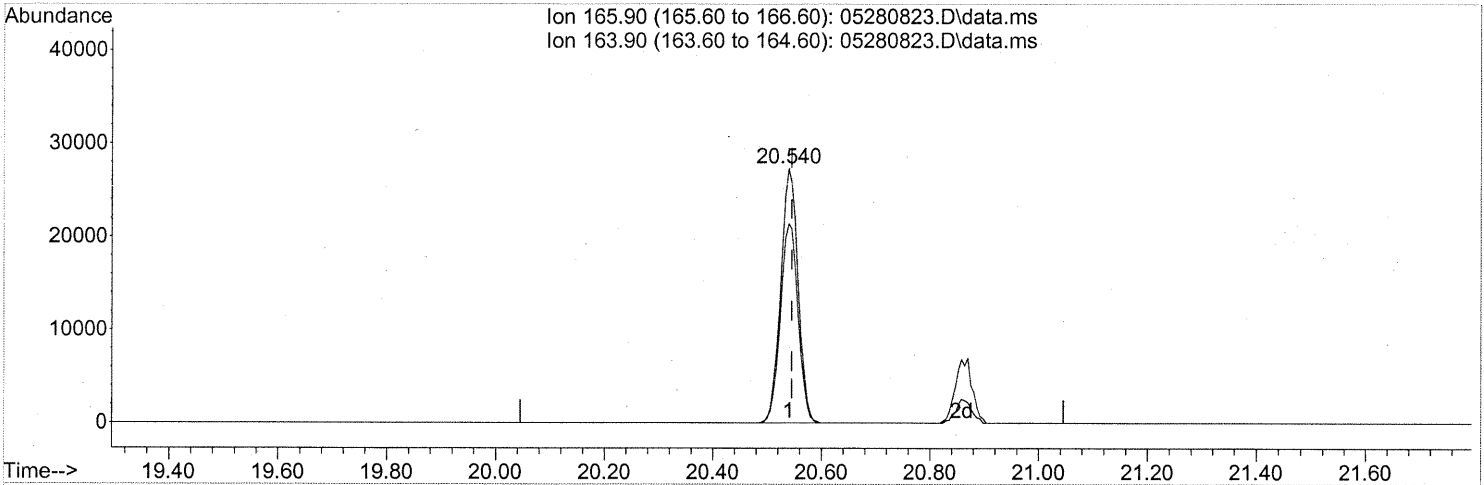
(63) n-Octane (T)
 20.346min (-0.006) 0.20ng
 response 3442

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	3.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

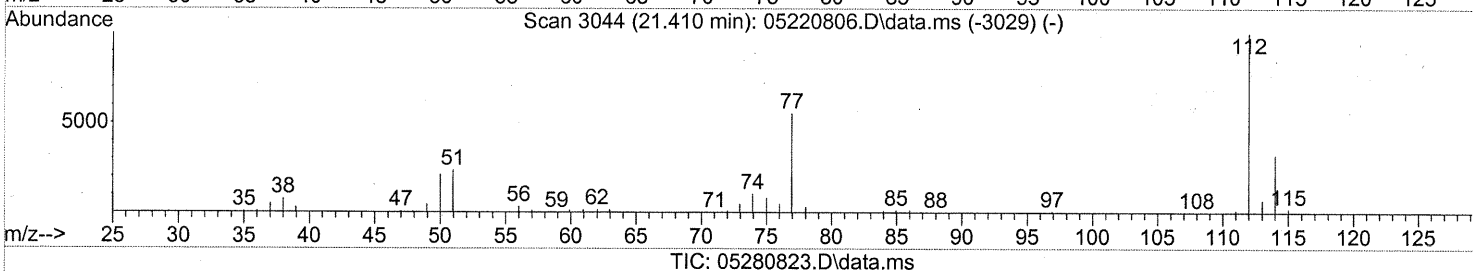
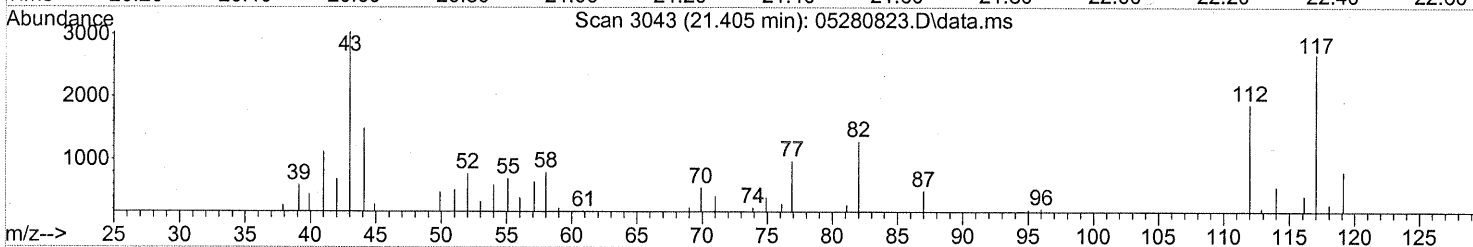
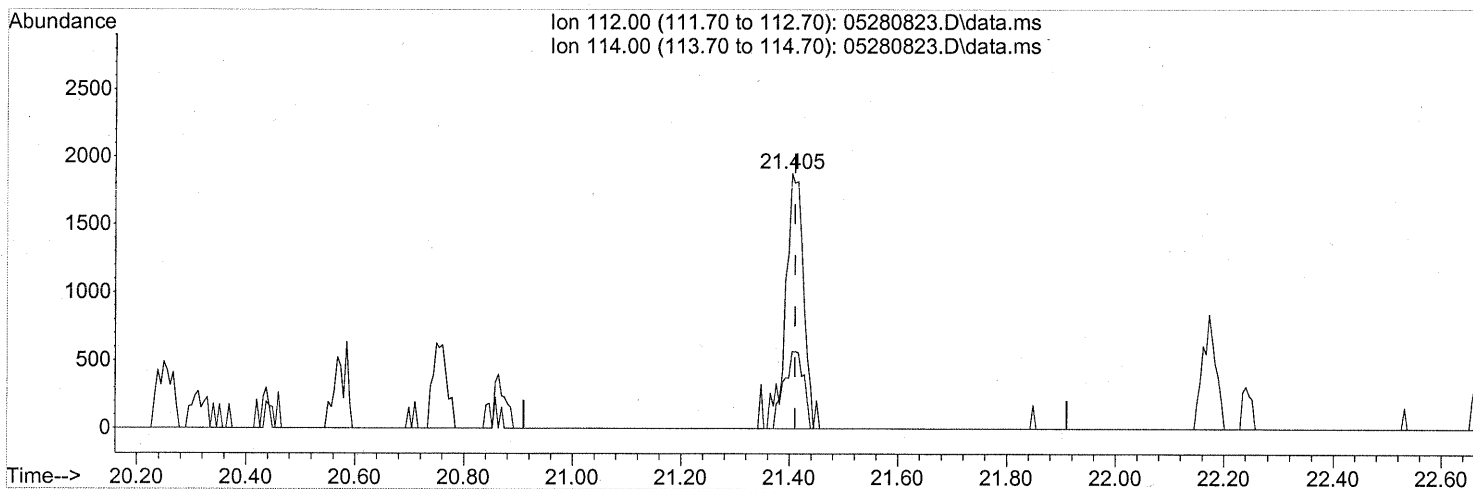
20.540min (-0.006) 2.58ng

response 60346

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.40
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



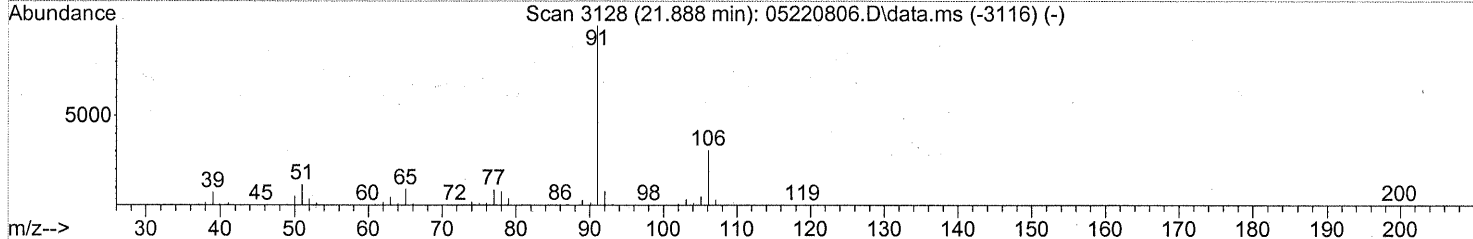
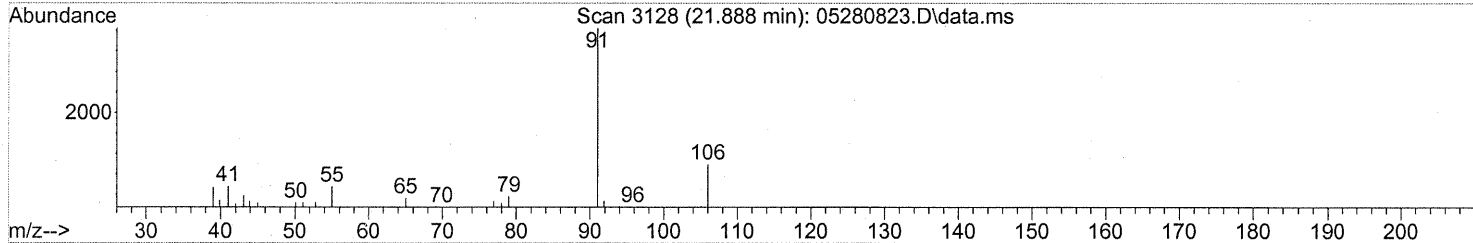
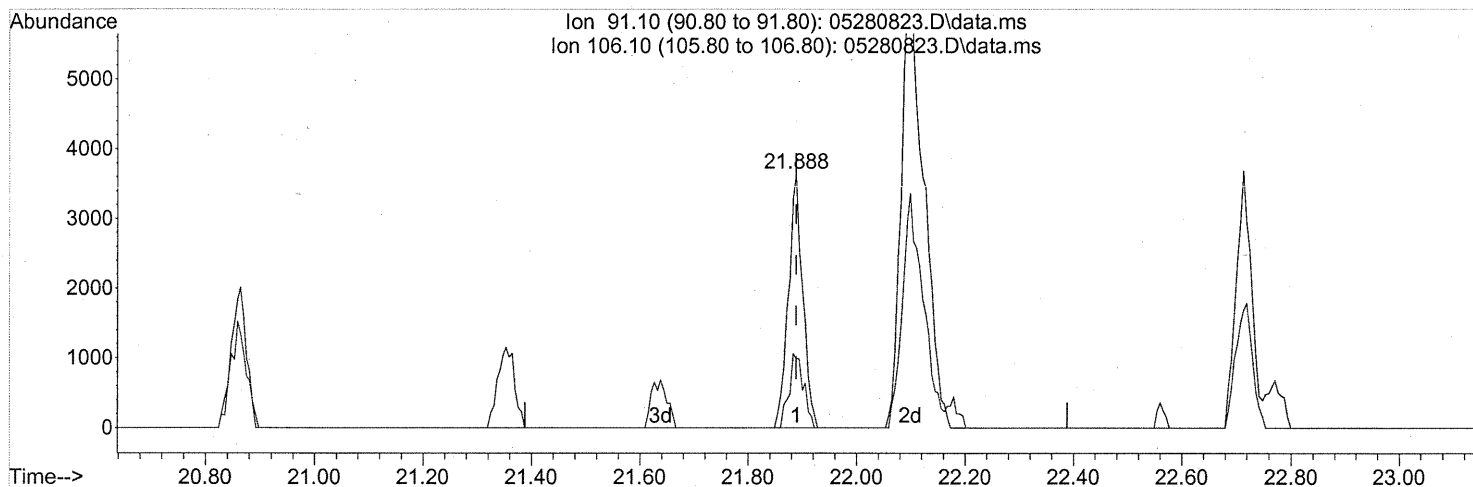
(65) Chlorobenzene (T)
 21.405min (-0.006) 0.08ng
 response 4085

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	39.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

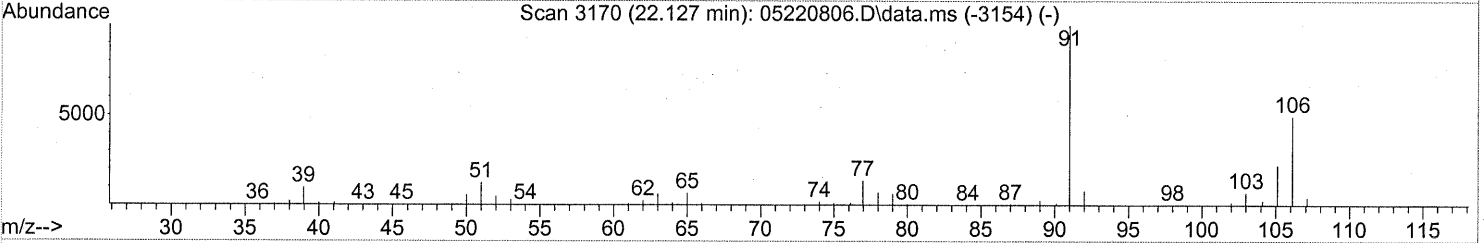
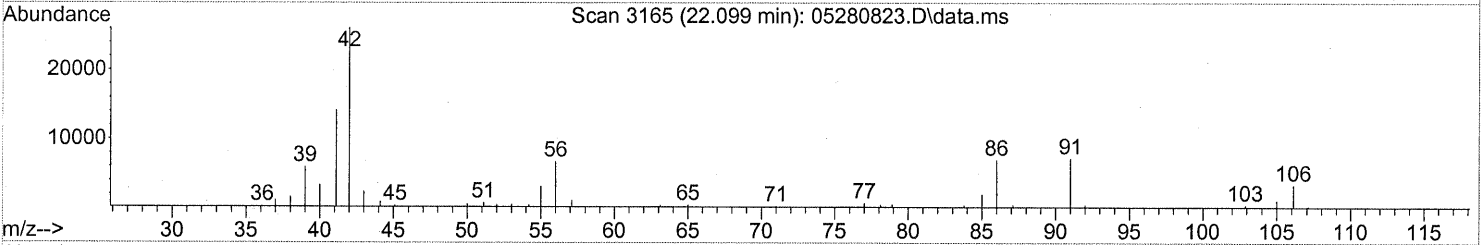
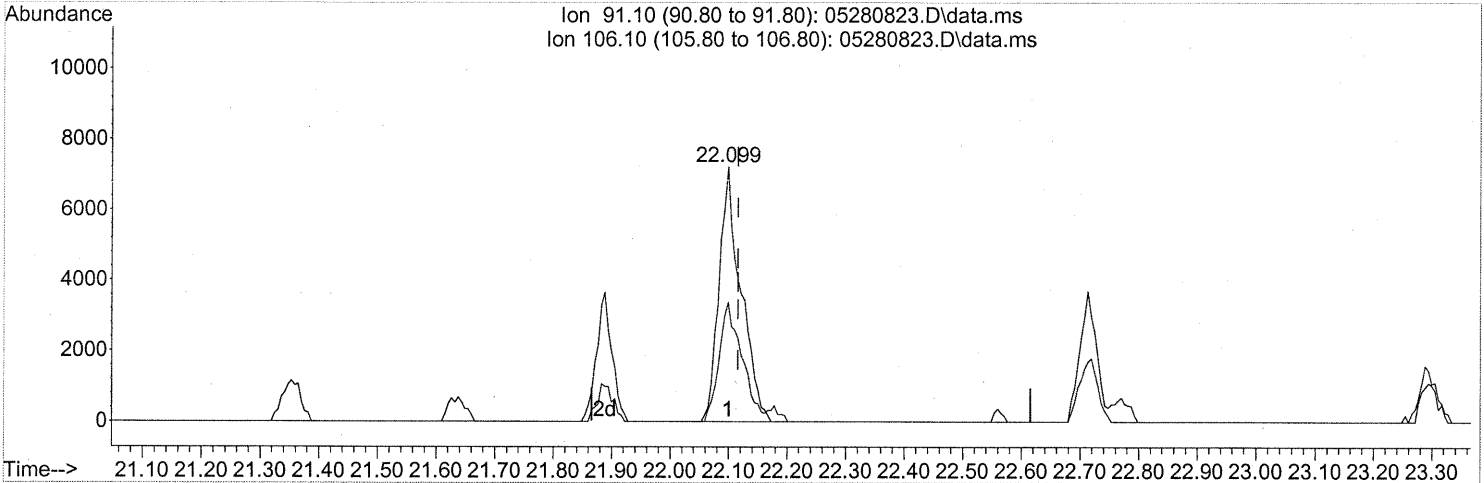
(66) Ethylbenzene (T)
 21.888min (-0.000) 0.07ng
 response 6679

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	29.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(67) m- & p-Xylene (T)

22.099min (-0.017) 0.31ng

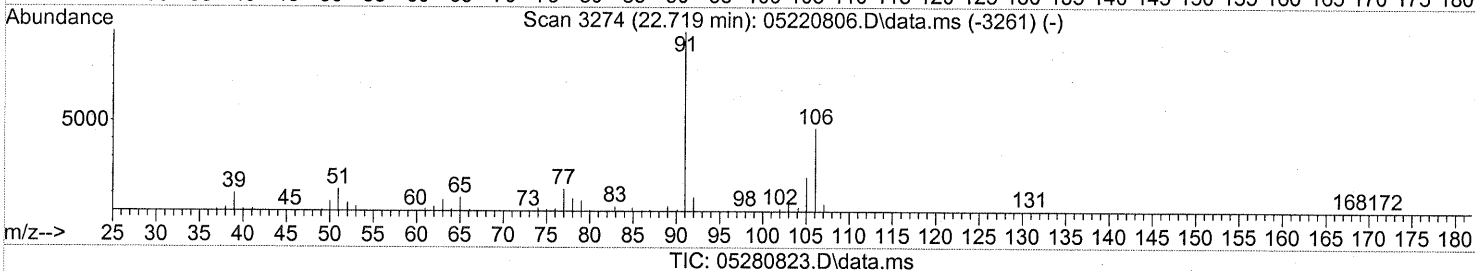
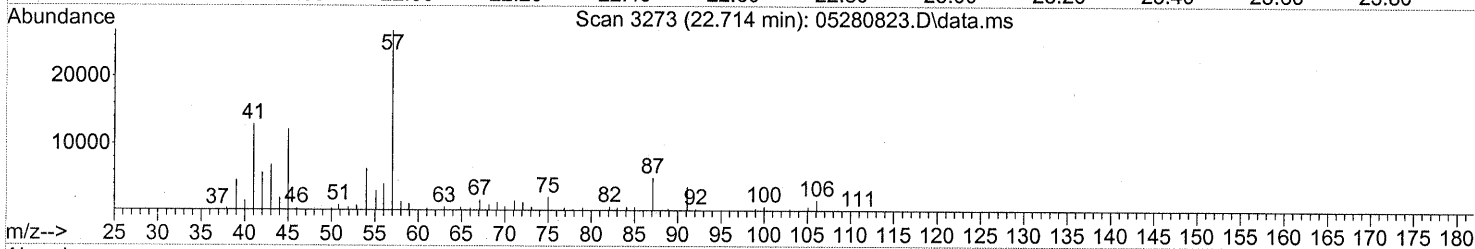
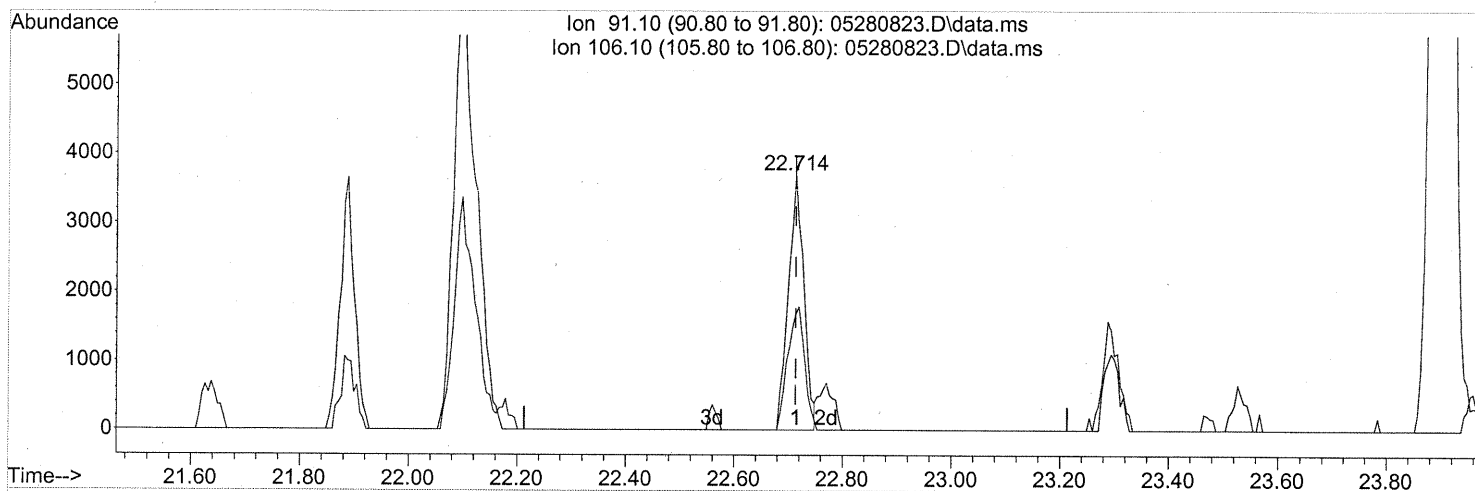
response 18577

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



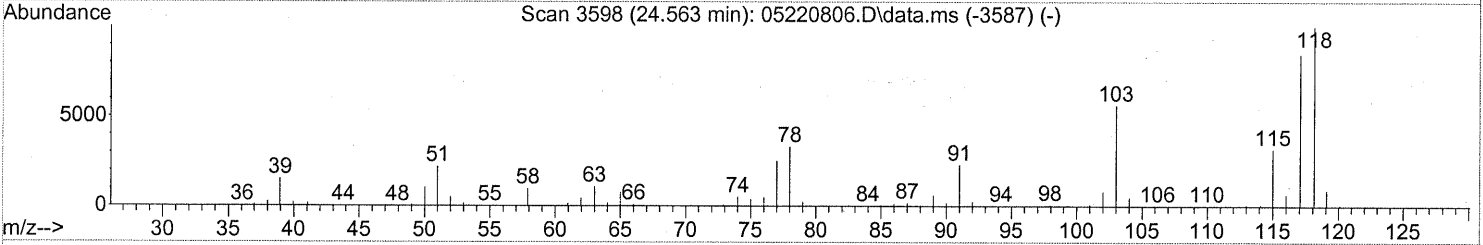
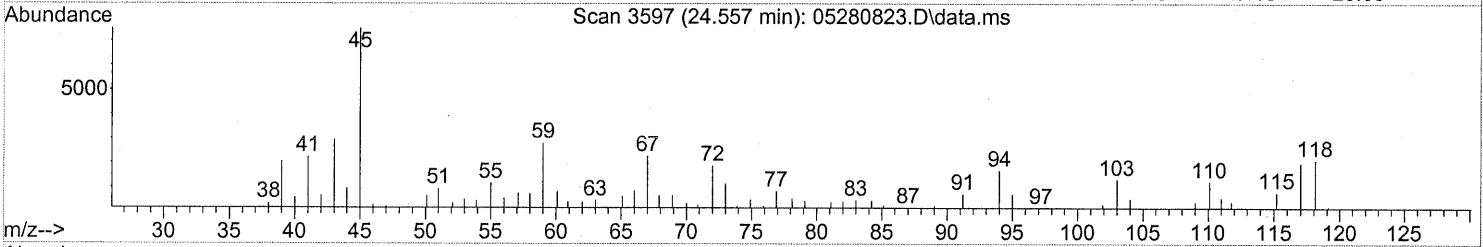
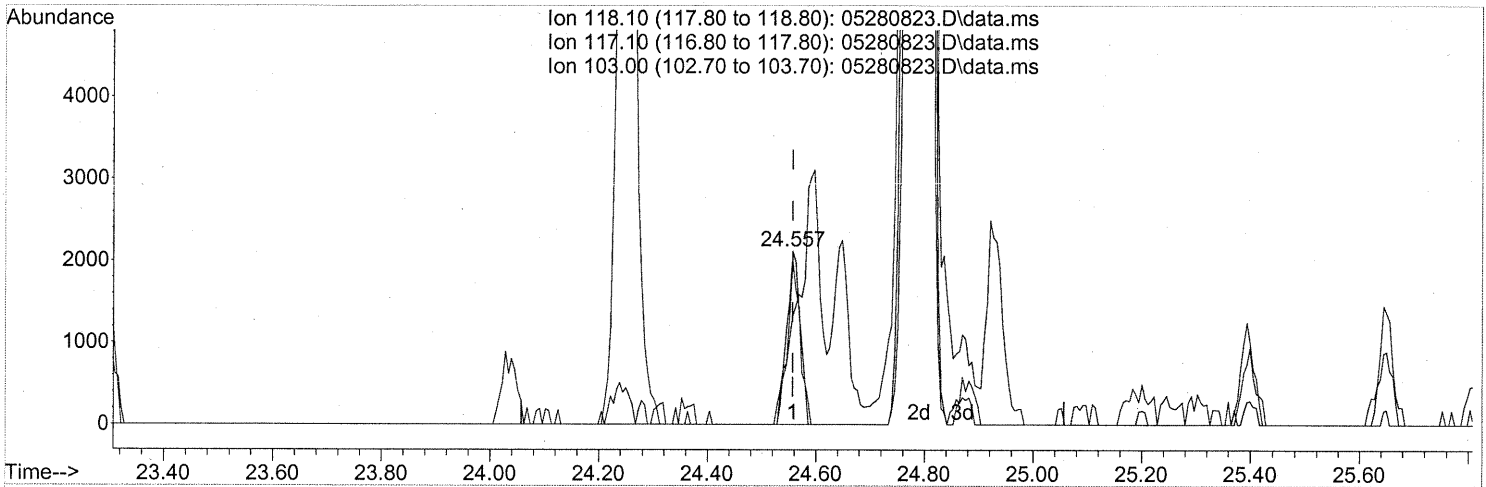
(70) o-Xylene (T)
 22.714min (-0.000) 0.11ng
 response 7303

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	52.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(80) alpha-Methylstyrene (T)

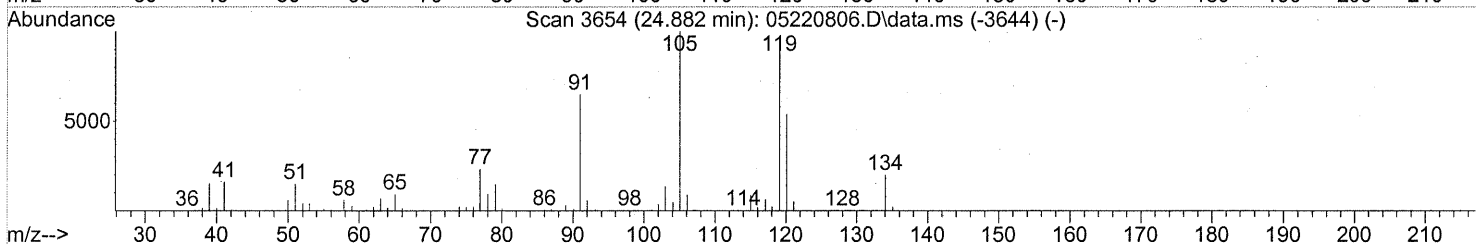
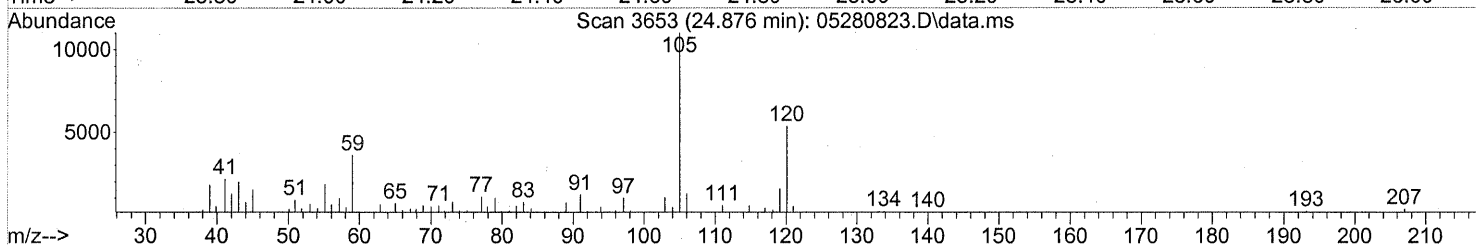
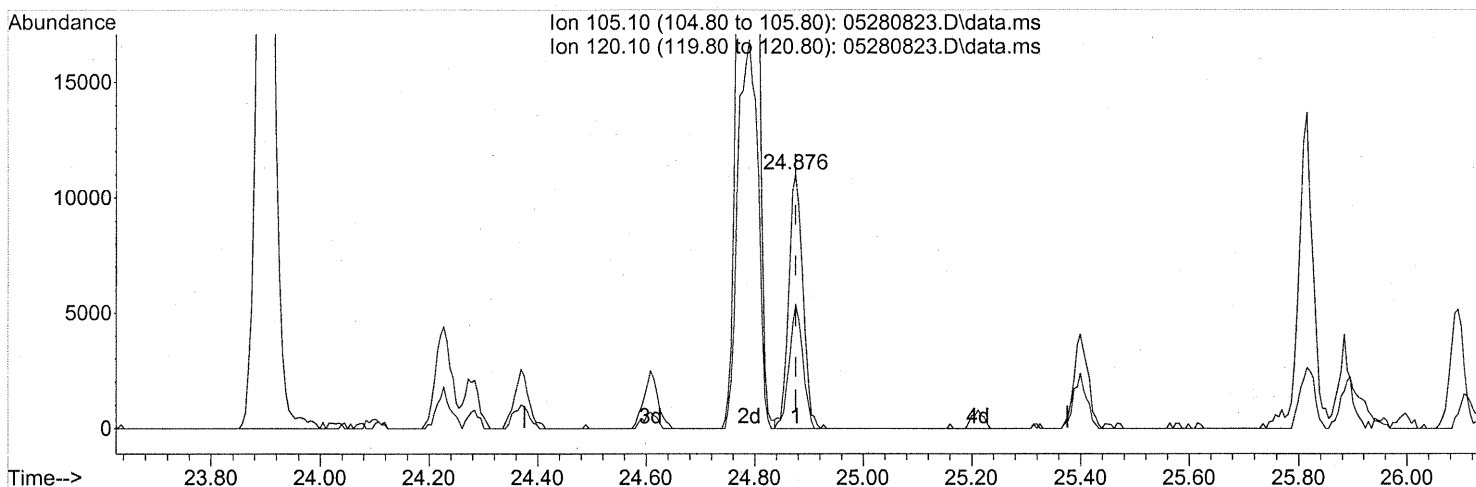
24.557min (-0.000) 0.09ng

response 3599

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	94.03
103.00	55.30	0.00#
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(82) 1,2,4-Trimethylbenzene (T)

24.876min (-0.000) 0.25ng

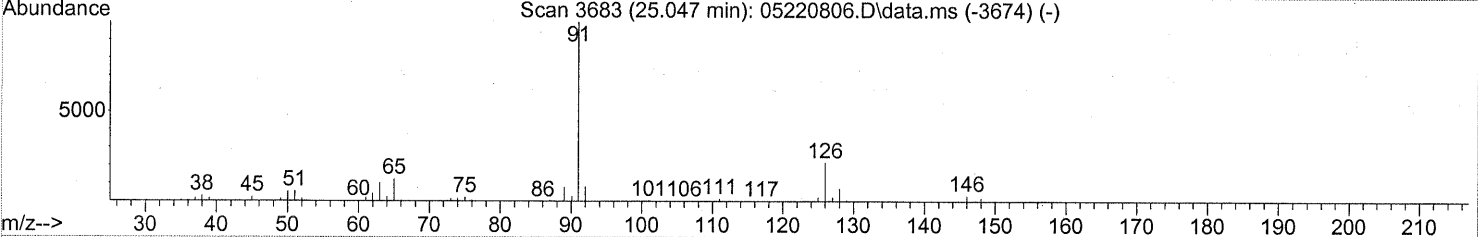
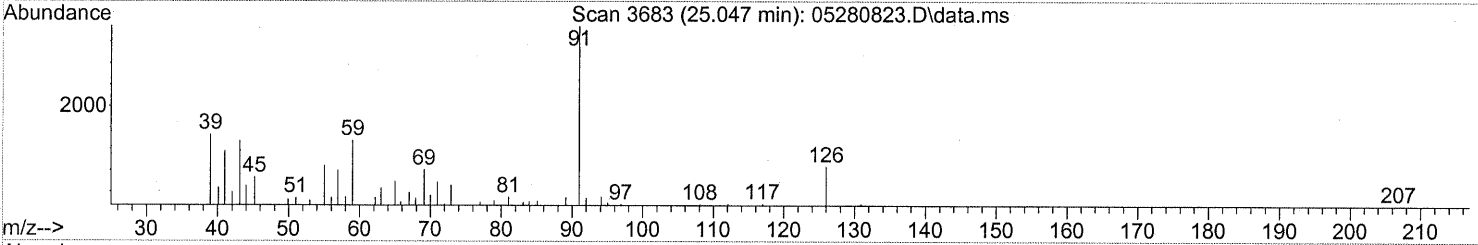
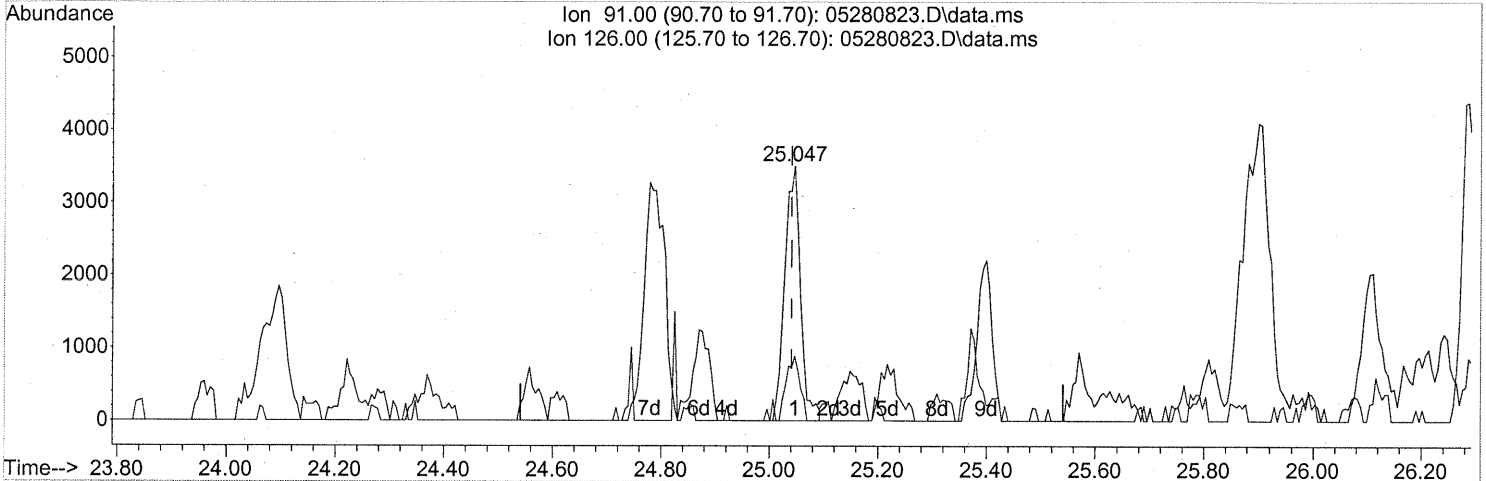
response 20133

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	46.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(84) Benzyl Chloride (T)

25.047min (+0.006) 0.13ng

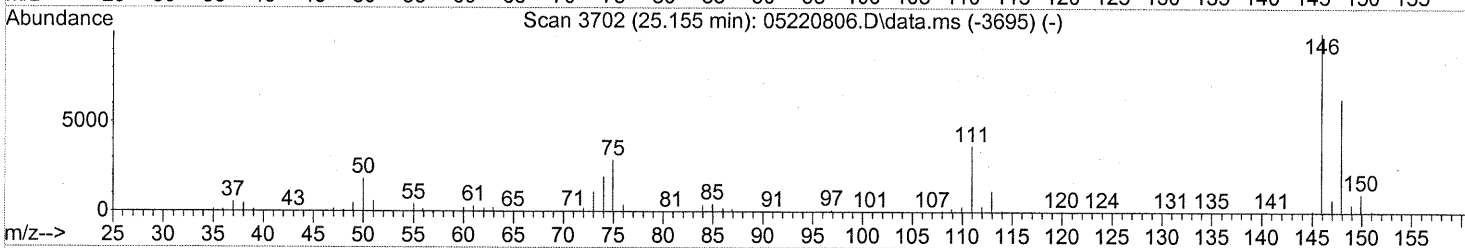
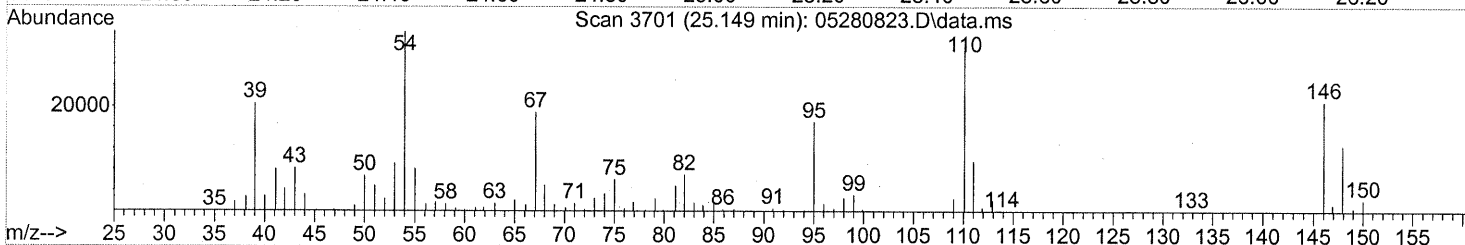
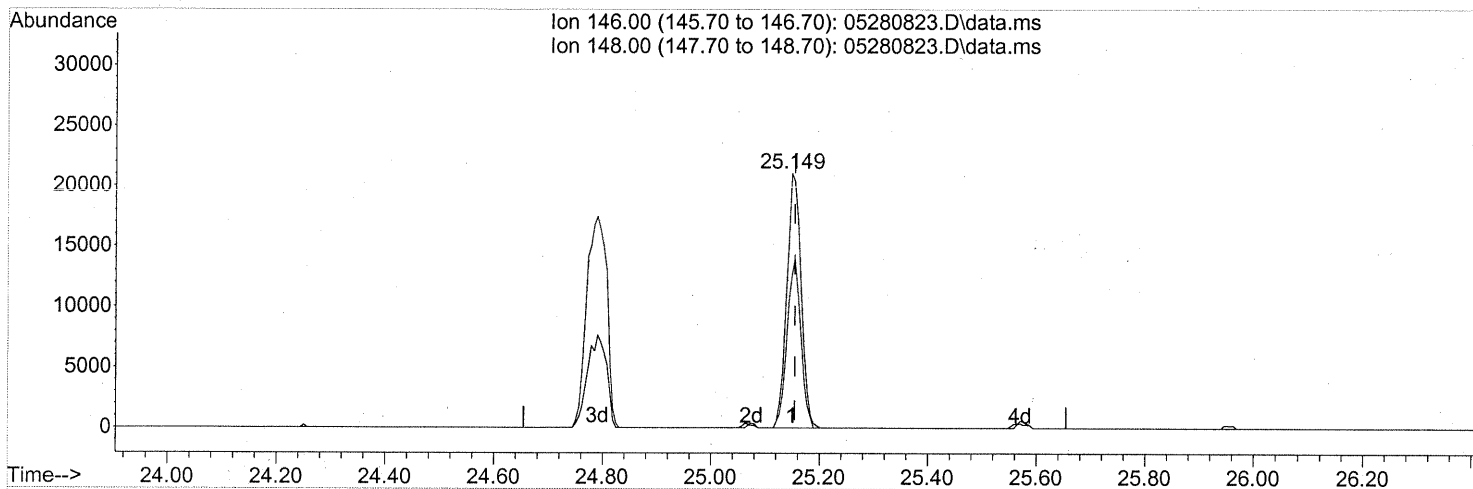
response 7037

Ion	Exp%	Act%
91.00	100	100
126.00	22.50	22.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280823.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 0.80ng

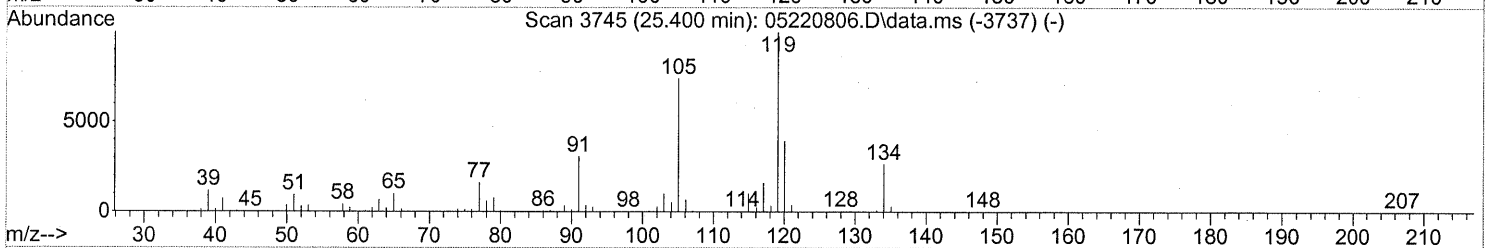
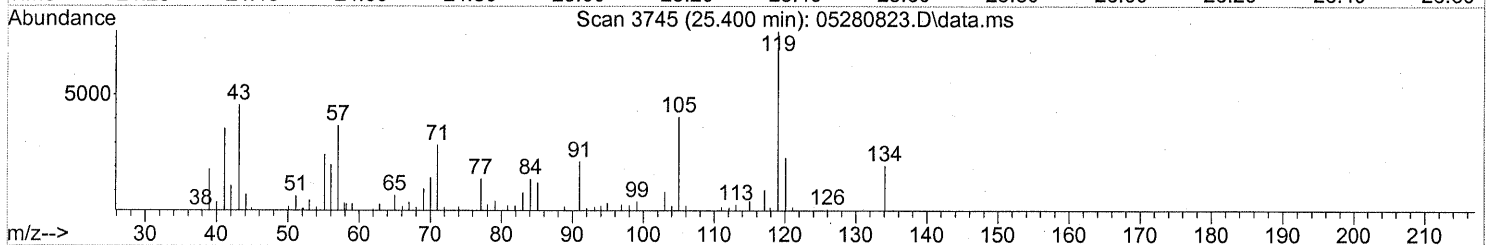
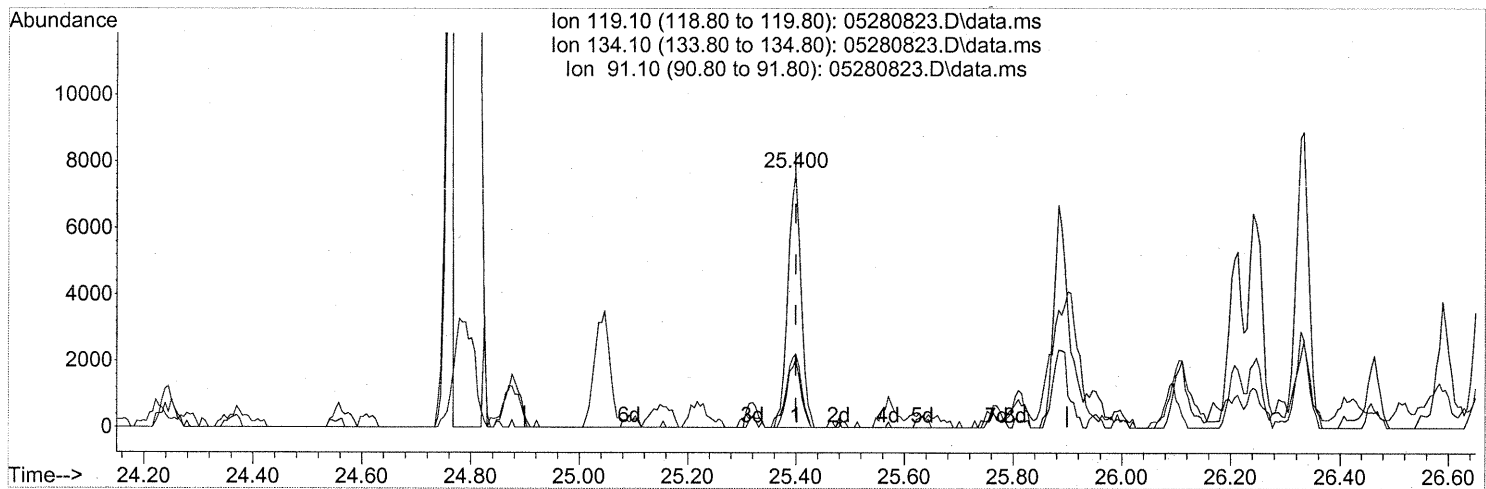
response 38446

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (-0.000) 0.15ng

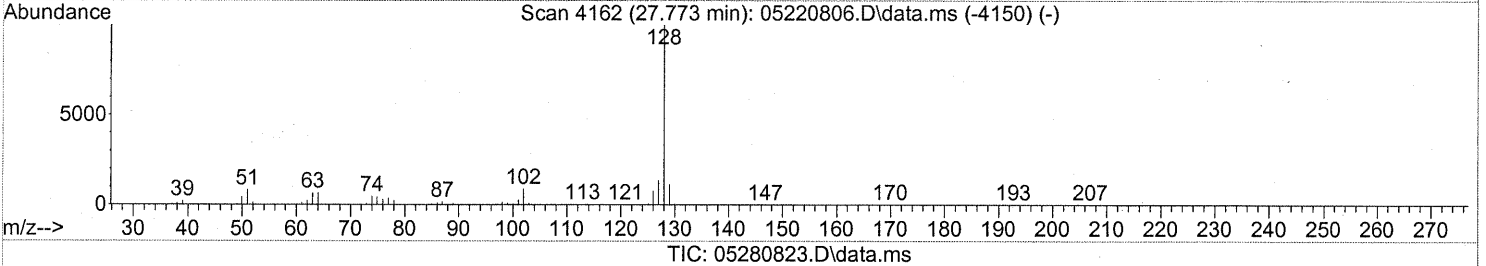
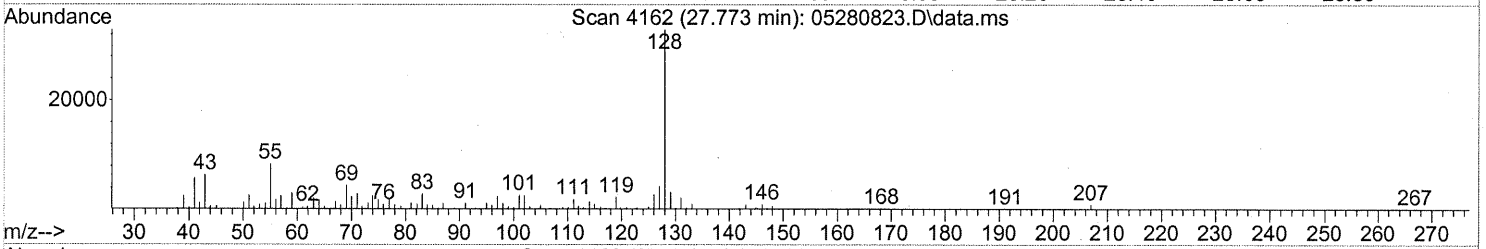
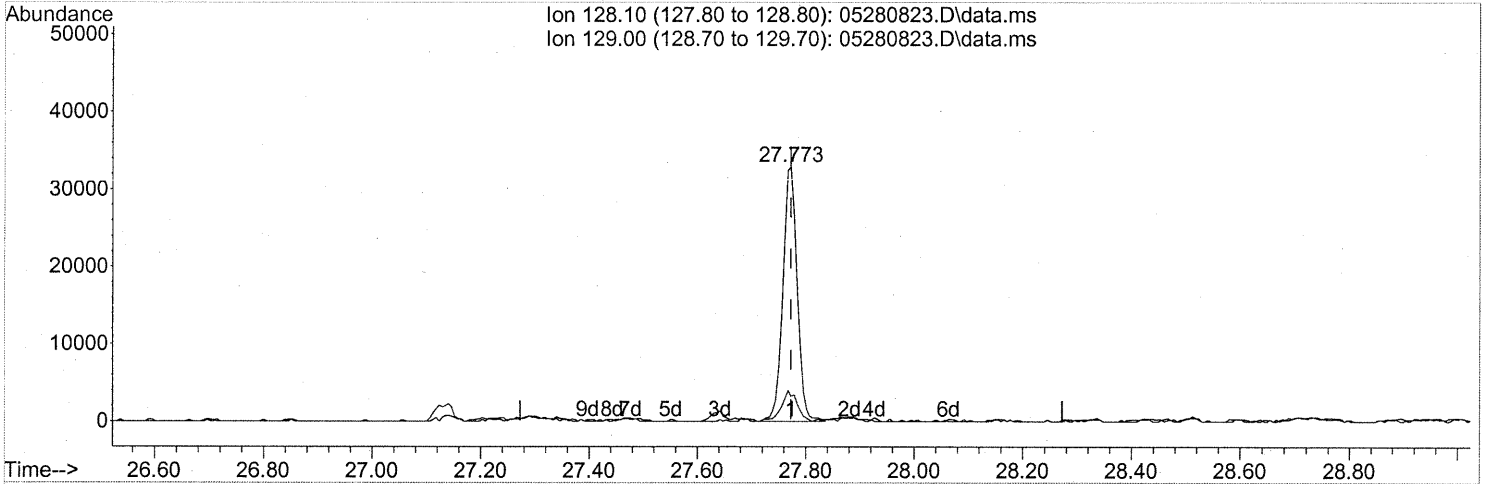
response 12841

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	27.26
91.10	27.10	33.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(95) Naphthalene (T)

27.773min (-0.000) 0.57ng

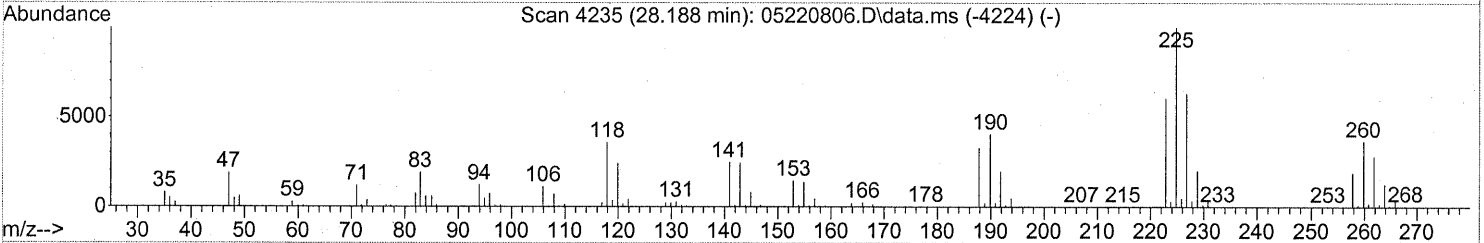
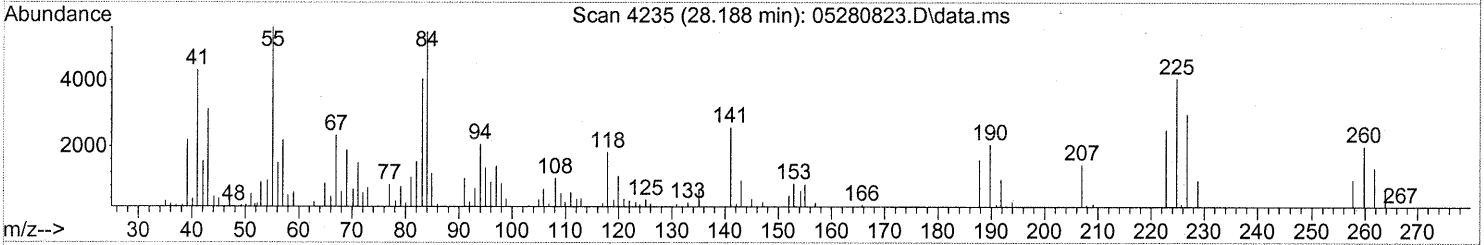
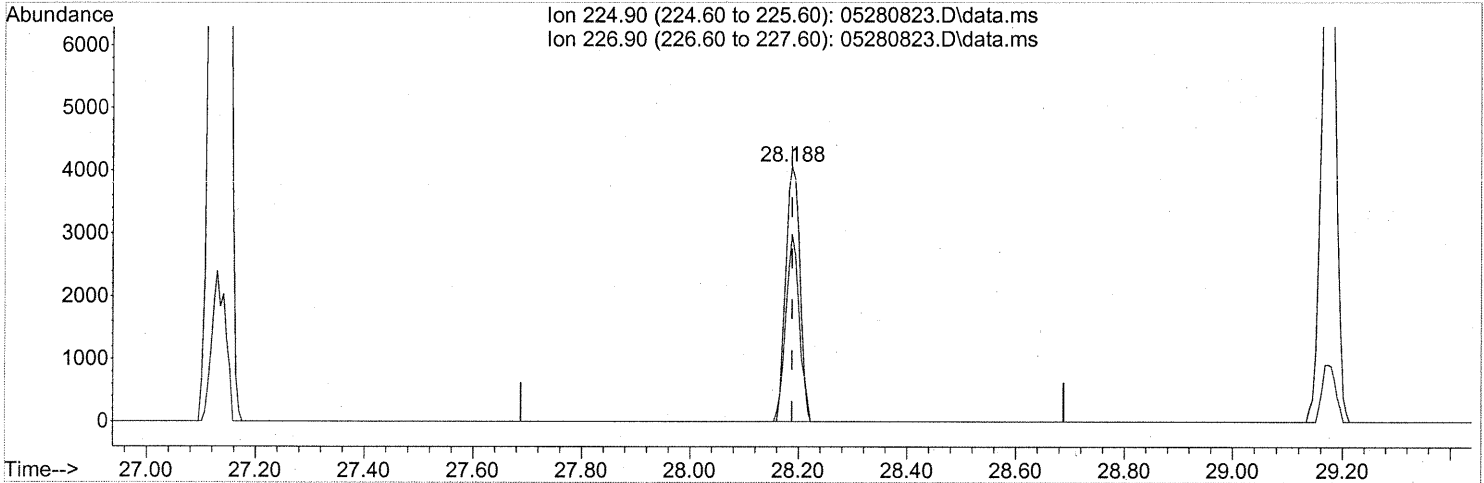
response 59615

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 04:16:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

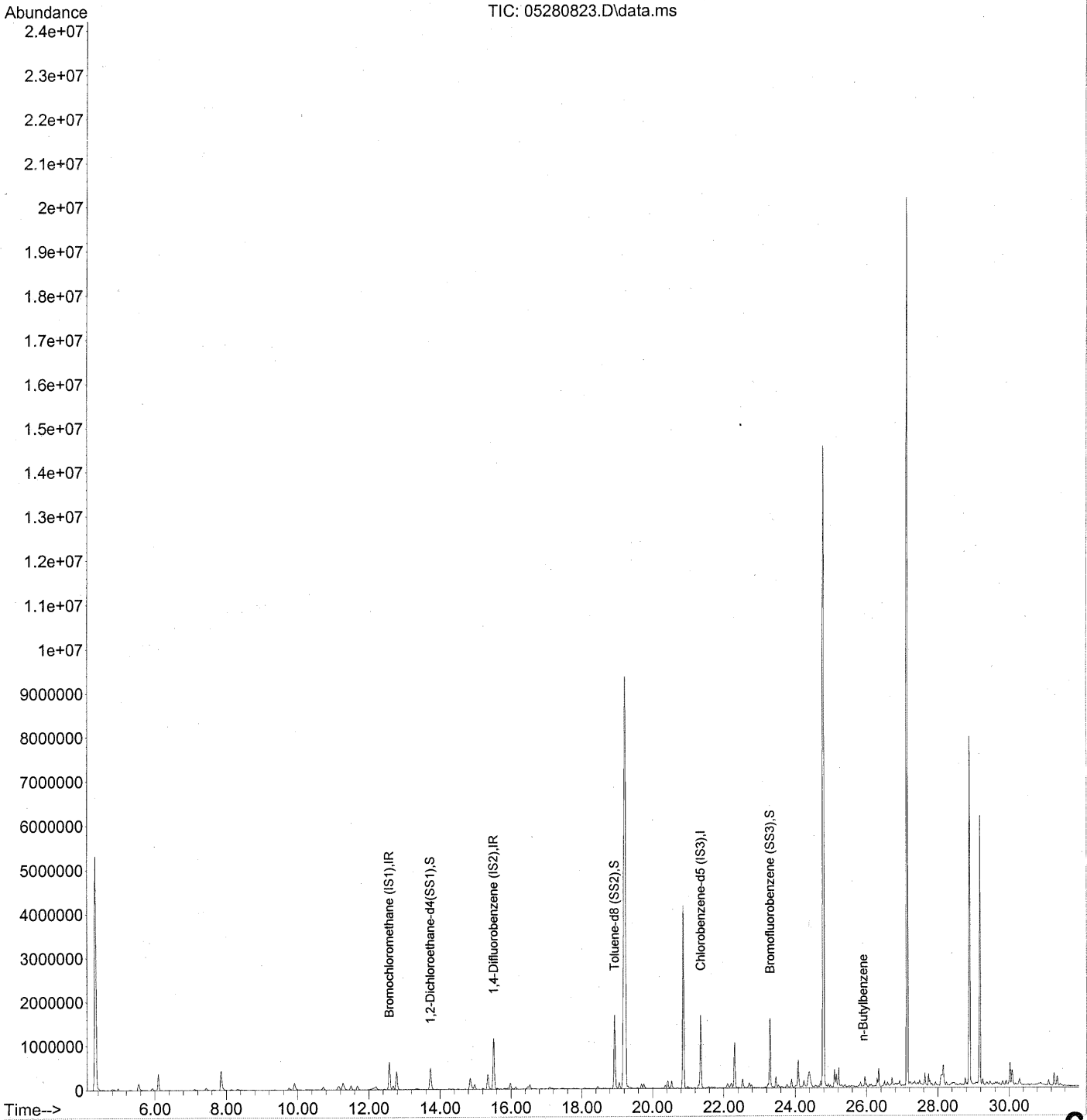
28.188min (-0.000) 0.32ng

response 7426

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	69.27
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16 am
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:24:21 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16 am
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:24:21 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

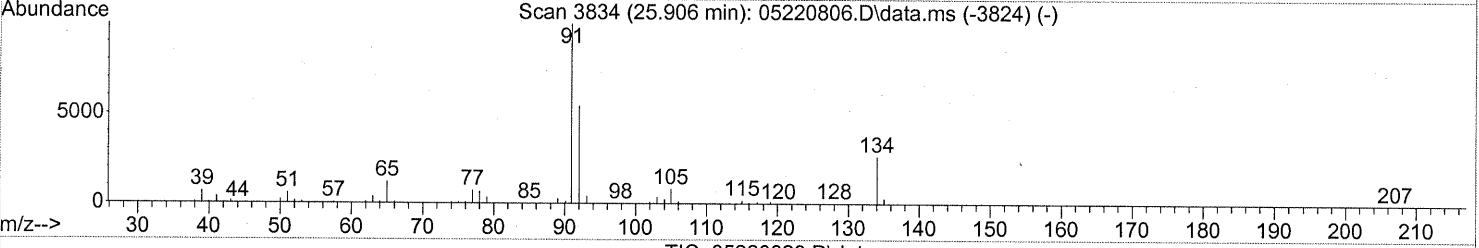
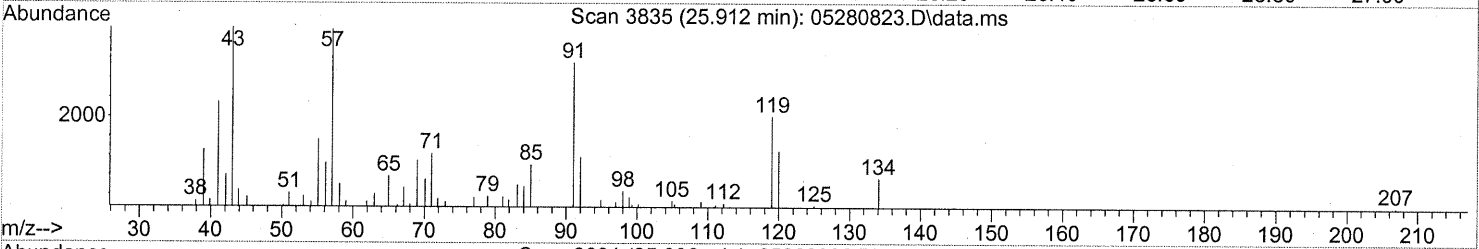
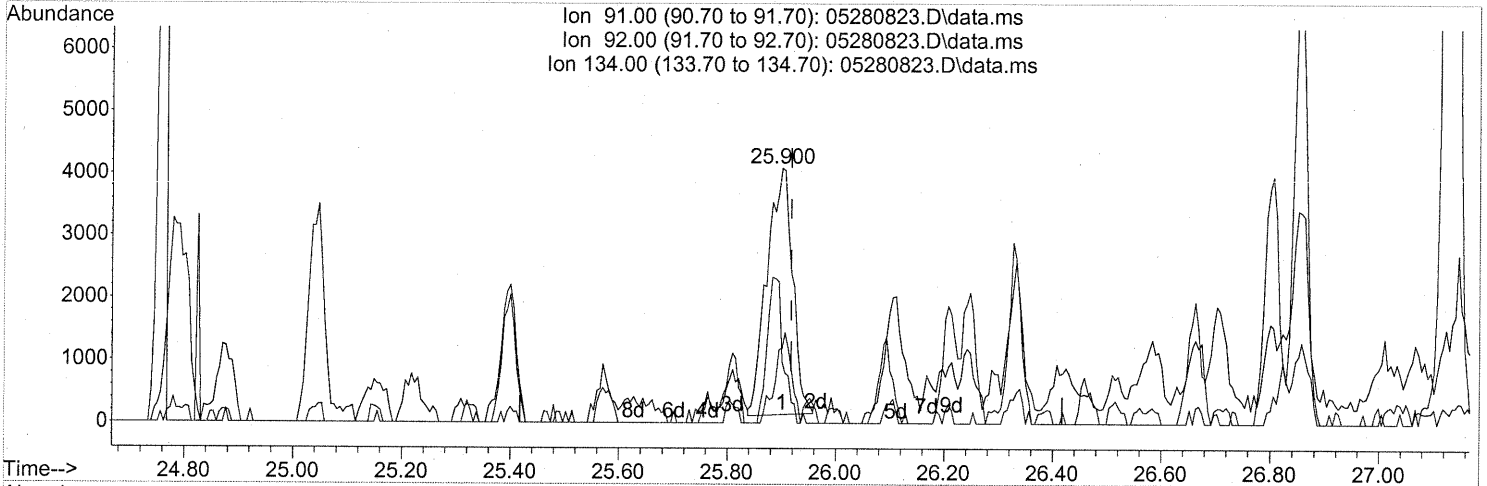
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	321929	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1383390	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	646785	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	512231	22.963	ng	-0.02
Spiked Amount	25.000		Recovery	=	91.84%	
5) Toluene-d8 (SS2)	18.93	98	1417309	24.399	ng	-0.01
Spiked Amount	25.000		Recovery	=	97.60%	
6) Bromofluorobenzene (SS3)	23.29	174	602196	25.494	ng	0.00
Spiked Amount	25.000		Recovery	=	101.96%	
Target Compounds						
7) tert-Butylbenzene	24.88	119	2910	N.D.		Qvalue
8) n-Butylbenzene	25.90	91	12843	0.153 ng	H #	52

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280823.D
 Acq On : 29 May 2008 2:16
 Operator : WA
 Sample : P0801483-013 (1000ml)
 Misc : ENSR SG33B-05 (-6.5, 3.5)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 13:24:21 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



(8) n-Butylbenzene

25.900min (-0.017) 0.15ng

response 12843

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	23.43#
134.00	28.80	0.00#
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG82B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00616

Date Collected: 5/16/08
Date Received: 5/20/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	5.6	0.56	0.43	1.1	0.11	J
74-87-3	Chloromethane	1.2	1.1	0.56	0.59	0.54	0.27	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	5.6	0.56	ND	0.80	0.080	
75-01-4	Vinyl Chloride	ND	1.1	0.56	ND	0.44	0.22	
74-83-9	Bromomethane	ND	1.1	0.56	ND	0.29	0.14	
75-00-3	Chloroethane	ND	1.1	0.56	ND	0.42	0.21	
64-17-5	Ethanol	4.0	56	0.56	2.1	30	0.30	J, B
67-64-1	Acetone	16	56	0.81	6.8	23	0.34	J, B
75-69-4	Trichlorofluoromethane	1.2	1.1	0.56	0.22	0.20	0.099	
107-13-1	Acrylonitrile	ND	5.6	0.78	ND	2.6	0.36	
75-35-4	1,1-Dichloroethene	1.2	1.1	0.56	0.31	0.28	0.14	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	3.1	5.6	0.82	1.0	1.8	0.27	J
75-09-2	Methylene Chloride	1.2	5.6	0.56	0.35	1.6	0.16	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.1	0.56	ND	0.36	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.1	0.62	ND	0.15	0.081	
75-15-0	Carbon Disulfide	60	5.6	1.3	19	1.8	0.43	B
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.56	ND	0.28	0.14	
75-34-3	1,1-Dichloroethane	ND	1.1	0.56	ND	0.28	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.1	0.56	ND	0.31	0.15	
108-05-4	Vinyl Acetate	4.4	56	1.8	1.3	16	0.51	J, B
78-93-3	2-Butanone (MEK)	7.4	5.6	0.56	2.5	1.9	0.19	B
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.56	ND	0.28	0.14	
108-20-3	Diisopropyl Ether	ND	5.6	0.66	ND	1.3	0.16	
67-66-3	Chloroform	2,600	1.1	0.66	520	0.23	0.13	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG82B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-014

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00616

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	5.6	0.57	ND	1.3	0.14	
107-06-2	1,2-Dichloroethane	ND	1.1	0.56	ND	0.28	0.14	
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.56	ND	0.20	0.10	
71-43-2	Benzene	4.3	1.1	0.56	1.3	0.35	0.17	
56-23-5	Carbon Tetrachloride	11	1.1	0.56	1.7	0.18	0.089	
994-05-8	tert-Amyl Methyl Ether	ND	5.6	0.56	ND	1.3	0.13	
78-87-5	1,2-Dichloropropane	ND	1.1	0.56	ND	0.24	0.12	
75-27-4	Bromodichloromethane	1.1	1.1	0.56	0.17	0.17	0.083	
79-01-6	Trichloroethene	64	1.1	0.56	12	0.21	0.10	
123-91-1	1,4-Dioxane	ND	5.6	0.68	ND	1.5	0.19	
80-62-6	Methyl Methacrylate	ND	5.6	0.84	ND	1.4	0.20	
142-82-5	n-Heptane	ND	5.6	0.71	ND	1.4	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	0.58	ND	1.2	0.13	
108-10-1	4-Methyl-2-pentanone	0.63	5.6	0.62	0.15	1.4	0.15	J
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	0.70	ND	1.2	0.15	
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.56	ND	0.20	0.10	
108-88-3	Toluene	16	5.6	0.56	4.3	1.5	0.15	
591-78-6	2-Hexanone	ND	5.6	0.85	ND	1.4	0.21	
124-48-1	Dibromochloromethane	ND	1.1	0.76	ND	0.13	0.089	
106-93-4	1,2-Dibromoethane	ND	1.1	0.60	ND	0.14	0.078	
111-65-9	n-Octane	ND	5.6	0.56	ND	1.2	0.12	
127-18-4	Tetrachloroethene	19	1.1	0.56	2.9	0.16	0.082	
108-90-7	Chlorobenzene	0.97	1.1	0.57	0.21	0.24	0.12	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: LA

Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG82B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-014

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00616

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.15 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	2.0	5.6	0.69	0.45	1.3	0.16	J
179601-23-1	m,p-Xylenes	8.4	5.6	1.4	1.9	1.3	0.33	
75-25-2	Bromoform	1.2	5.6	0.85	0.12	0.54	0.082	J
100-42-5	Styrene	ND	5.6	0.85	ND	1.3	0.20	
95-47-6	o-Xylene	3.1	5.6	0.70	0.72	1.3	0.16	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.71	ND	0.16	0.10	
98-82-8	Cumene	ND	5.6	0.62	ND	1.1	0.13	
103-65-1	n-Propylbenzene	ND	5.6	0.58	ND	1.1	0.12	
622-96-8	4-Ethyltoluene	0.79	5.6	0.63	0.16	1.1	0.13	J
108-67-8	1,3,5-Trimethylbenzene	0.76	5.6	0.67	0.15	1.1	0.14	J
98-83-9	alpha-Methylstyrene	ND	5.6	0.81	ND	1.2	0.17	
95-63-6	1,2,4-Trimethylbenzene	2.6	5.6	0.77	0.52	1.1	0.16	J
100-44-7	Benzyl Chloride	ND	1.1	0.96	ND	0.22	0.19	
541-73-1	1,3-Dichlorobenzene	2.1	1.1	0.69	0.34	0.19	0.11	
106-46-7	1,4-Dichlorobenzene	7.2	1.1	0.62	1.2	0.19	0.10	
135-98-8	sec-Butylbenzene	ND	5.6	0.65	ND	1.0	0.12	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	5.6	0.72	ND	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	5.1	1.1	0.73	0.86	0.19	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	0.85	ND	0.58	0.088	
120-82-1	1,2,4-Trichlorobenzene	4.7	1.1	0.85	0.63	0.15	0.11	
91-20-3	Naphthalene	1.5	2.2	0.82	0.29	0.42	0.16	J
87-68-3	Hexachlorobutadiene	5.4	1.1	1.0	0.51	0.10	0.094	
98-06-6	tert-Butylbenzene	ND	2.2	0.56	ND	0.41	0.10	
104-51-8	n-Butylbenzene	ND	2.2	0.56	ND	0.41	0.10	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

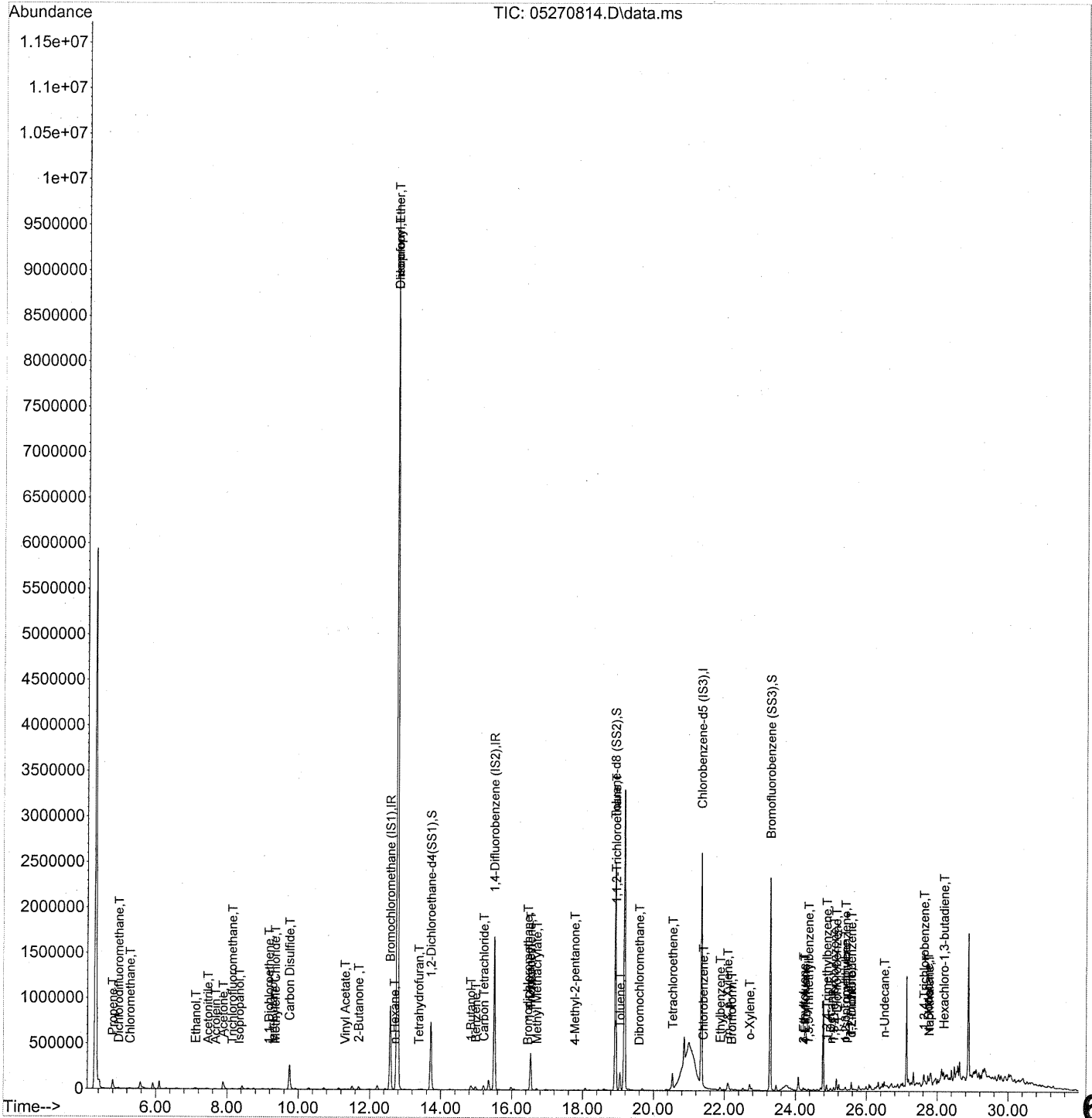
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 31 10:48:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 31 10:48:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	458314	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1954879	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1018129	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	750786	23.642	ng	0.00	
Spiked Amount				25.000			
				Recovery =		94.56%	✓
57) Toluene-d8 (SS2)	18.92	98	2065383	22.588	ng	0.00	
Spiked Amount				25.000			
				Recovery =		90.36%	✓
73) Bromofluorobenzene (SS3)	23.29	174	887615	23.871	ng	0.00	
Spiked Amount				25.000			
				Recovery =		95.48%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue	#
2) Propene	4.79	42	33902	0.937	ng		85
3) Dichlorodifluoromethane	4.96	85	12754	0.191	ng		95
4) Chloromethane	5.29	50	4724	0.109	ng		98
5) Freon 114	5.53	135	56	N.D.		✓	
6) Vinyl Chloride	0.00	62	0	N.D.		✓	
7) 1,3-Butadiene	6.01	54	312	N.D.		✓	
8) Bromomethane	6.50	94	756	N.D.		✓	
9) Chloroethane	6.81	64	954	N.D.		✓	
10) Ethanol	7.12	45	8601m	0.357	ng		
11) Acetonitrile	7.46	41	11416	0.164	ng		92
12) Acrolein	7.68	56	2852	0.166	ng		96
13) Acetone	7.89	58	35591m	1.443	ng		
14) Trichlorofluoromethane	8.14	101	6298	0.110	ng		95
15) Isopropanol	8.34	45	6810	0.087	ng		87
16) Acrylonitrile	8.60	53	837	N.D.		✓	
17) 1,1-Dichloroethene	9.17	96	2820	0.112	ng		# 1
18) tert-Butanol	9.29	59	18415m	0.275	ng		
19) Methylene Chloride	9.36	84	3035	0.110	ng		# 71
20) Allyl Chloride	9.59	41	56	N.D.		✓	
21) Trichlorotrifluoroethane	9.81	151	894	N.D.		✓	
22) Carbon Disulfide	9.76	76	563351	5.384	ng		100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		✓	
24) 1,1-Dichloroethane	11.08	63	427	N.D.		✓	
25) Methyl tert-Butyl Ether	11.16	73	57	N.D.		✓	
26) Vinyl Acetate	11.32	86	1815	0.398	ng		# 1
27) 2-Butanone	11.70	72	11984	0.666	ng		96
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		✓	
29) Diisopropyl Ether	12.78	87	1091368	49.462	ng	NR	# 1
30) Ethyl Acetate	12.79	61	74	N.D.			
31) n-Hexane	12.70	57	3585	0.073	ng		# 71

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Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 31 10:48:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	10155157	242.989 ng	see dil	99
34) Tetrahydrofuran	13.39	72	1649	0.096	ng #	57
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.88	62	304	N.D.	✓	
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.	✓	
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.84	56	47078	1.752	ng	91
41) Benzene	14.99	78	39605	0.387	ng	99
42) Carbon Tetrachloride	15.21	117	38093	0.966	ng	99
43) Cyclohexane	15.41	84	794	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	16.21	63	493	N.D.	✓	
46) Bromodichloromethane	16.45	83	3450	0.100	ng	93
47) Trichloroethene	16.53	130	180845	5.759	ng	100
48) 1,4-Dioxane	16.52	88	1038	0.054	ng #	4
49) Isooctane	16.63	57	3496	N.D.		
50) Methyl Methacrylate	16.71	100	3405	0.333	ng NR#	1
51) n-Heptane	16.97	71	750	N.D.	✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.78	58	1562	0.057	ng	74
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	181463	7.174	ng NR#	8
58) Toluene	19.06	91	182796	1.471	ng	97
59) 2-Hexanone	19.37	43	3828	N.D.	✓	
60) Dibromochloromethane	19.60	129	1765	0.053	ng #	73
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.19	43	911	N.D.		
63) n-Octane	20.35	57	1009	N.D.	✓	
64) Tetrachloroethene	20.54	166	64123	1.743	ng	97
65) Chlorobenzene	21.40	112	7246	0.087	ng	99
66) Ethylbenzene	21.88	91	25153	0.176	ng	95
67) m- & p-Xylene	22.09	91	72283	0.758	ng	93
68) Bromoform	22.20	173	2801	0.112	ng	92
69) Styrene	22.57	104	1347	N.D.	✓	
70) o-Xylene	22.71	91	28794	0.280	ng	91
71) n-Nonane	22.98	43	2622	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.69	83	205	N.D.	✓	
74) Cumene	23.46	105	1888	N.D.	✓	
75) alpha-Pinene	23.95	93	3106	N.D.		
76) n-Propylbenzene	24.10	91	7671	N.D.	✓	
77) 3-Ethyltoluene	24.22	105	18135	0.124	ng	99
78) 4-Ethyltoluene	24.27	105	9620	0.071	ng	99
79) 1,3,5-Trimethylbenzene	24.37	105	8328	0.068	ng	93

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Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 31 10:48:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

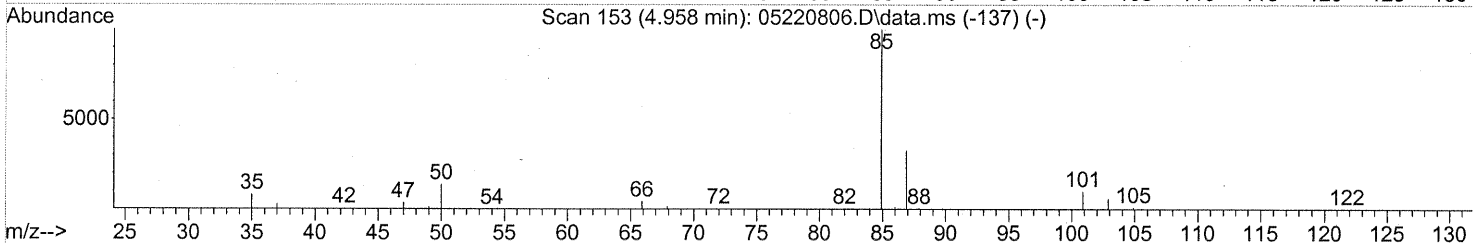
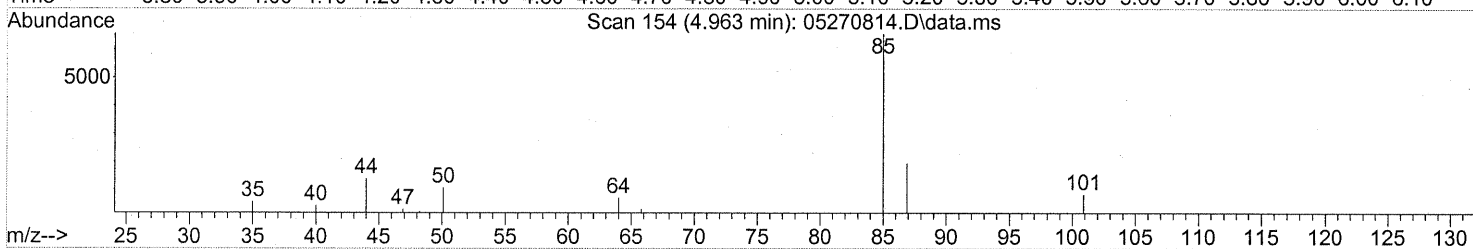
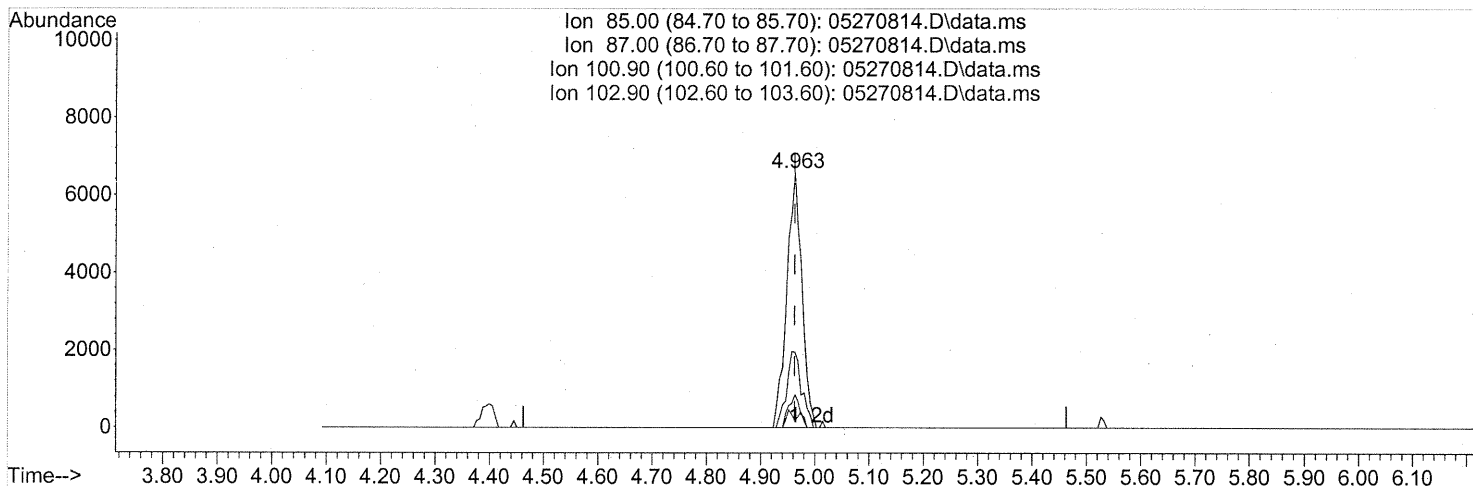
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	114	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	7140	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	28772	0.230 ng		86
83) n-Decane	24.98	57	8292	0.120 ng	#	60
84) Benzyl Chloride	25.05	91	284	N.D.	✓	
85) 1,3-Dichlorobenzene	25.08	146	14575	0.186 ng		100
86) 1,4-Dichlorobenzene	25.15	146	48994	0.646 ng		98
87) sec-Butylbenzene	25.20	105	1223	N.D.	✓	
88) p-Isopropyltoluene	25.39	119	8331	0.063 ng		85
89) 1,2,3-Trimethylbenzene	25.41	105	9033	0.074 ng		99
90) 1,2-Dichlorobenzene	25.57	146	34294	0.462 ng		98
91) d-Limonene	25.57	68	3099	0.062 ng		97
92) 1,2-Dibromo-3-Chloropr...	26.24	157	900	N.D.	✓	
93) n-Undecane	26.50	57	28698	0.398 ng	#	64
94) 1,2,4-Trichlorobenzene	27.63	180	22679	0.418 ng		96
95) Naphthalene	27.77	128	22239	0.135 ng		98
96) n-Dodecane	27.74	57	32405	0.452 ng		85
97) Hexachloro-1,3-butadiene	28.19	225	17562	0.486 ng		98

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(3) Dichlorodifluoromethane (T)

4.963min (+0.000) 0.19ng

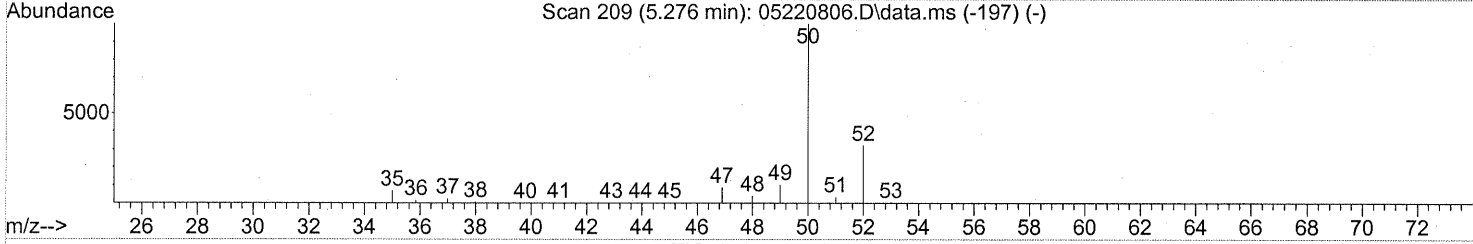
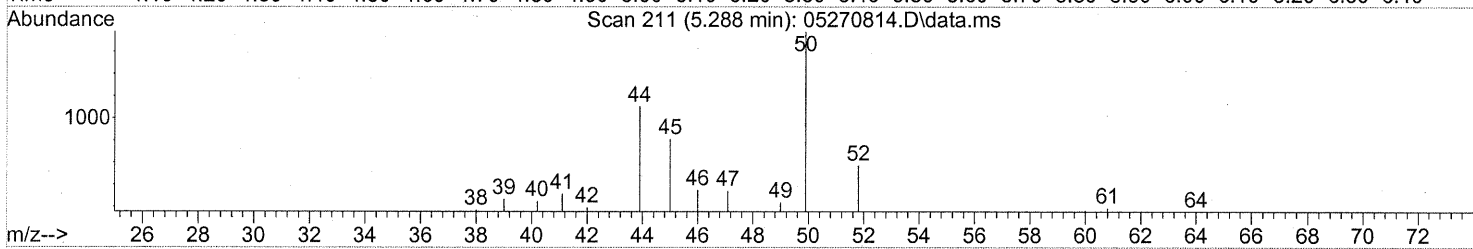
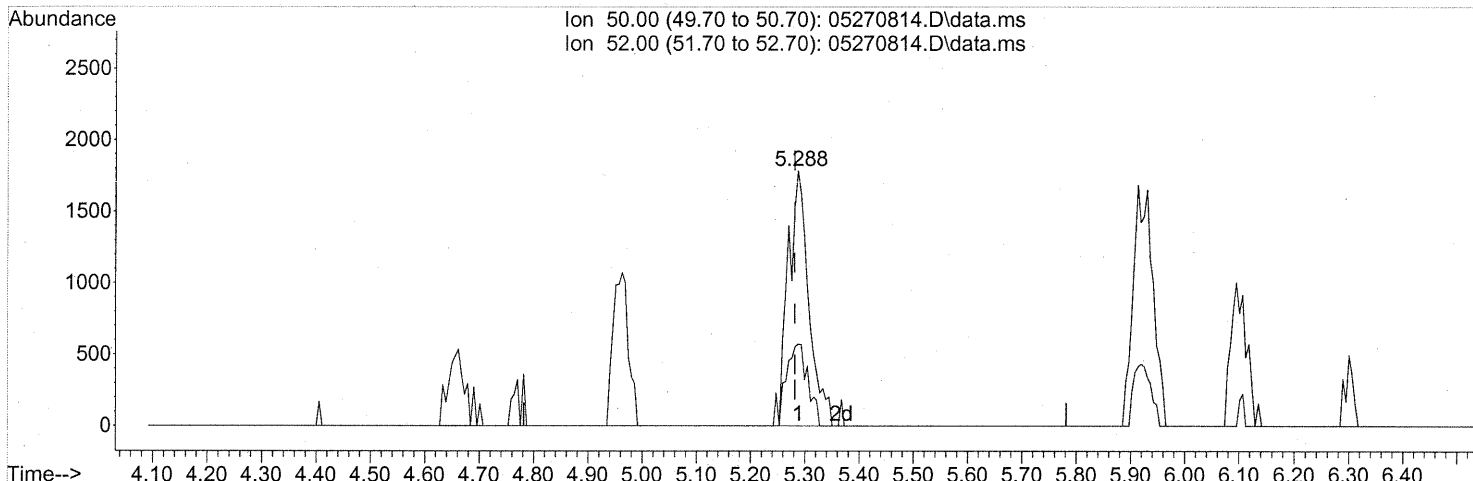
response 12754

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	29.71
100.90	9.30	9.88
102.90	6.00	3.07

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
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 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
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TIC: 05270814.D\data.ms

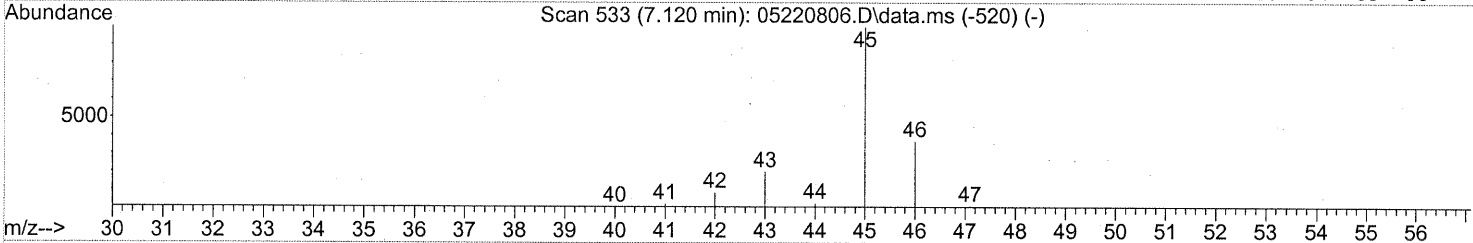
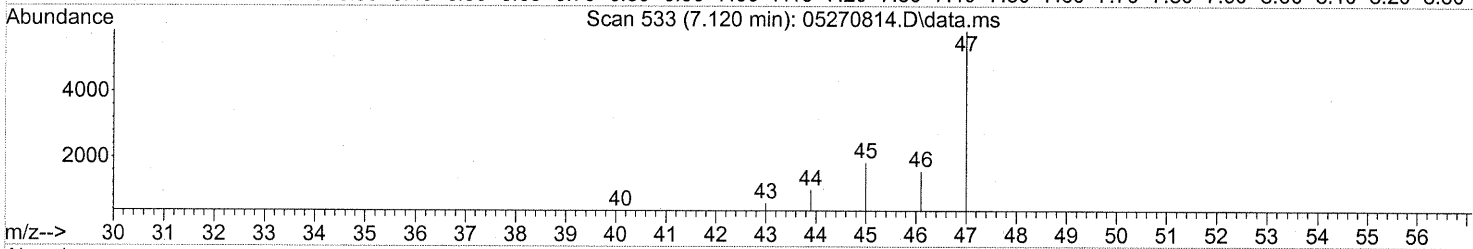
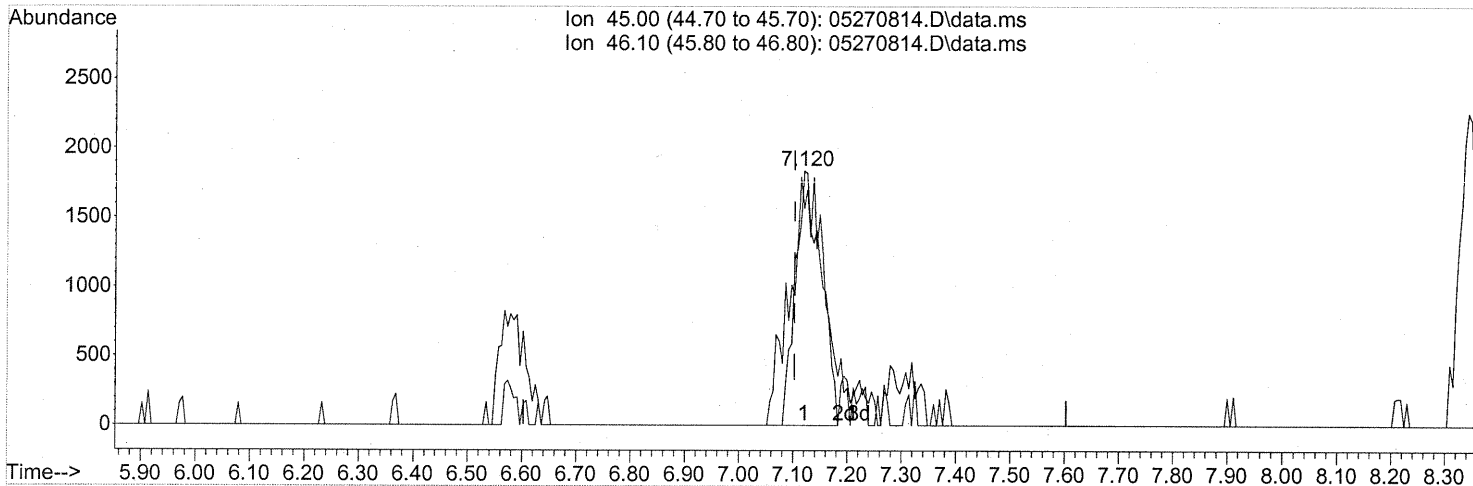
(4) Chloromethane (T)
 5.288min (+0.006) 0.11ng
 response 4724

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	32.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

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 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.120min (+0.017) 0.25ng

response 6061

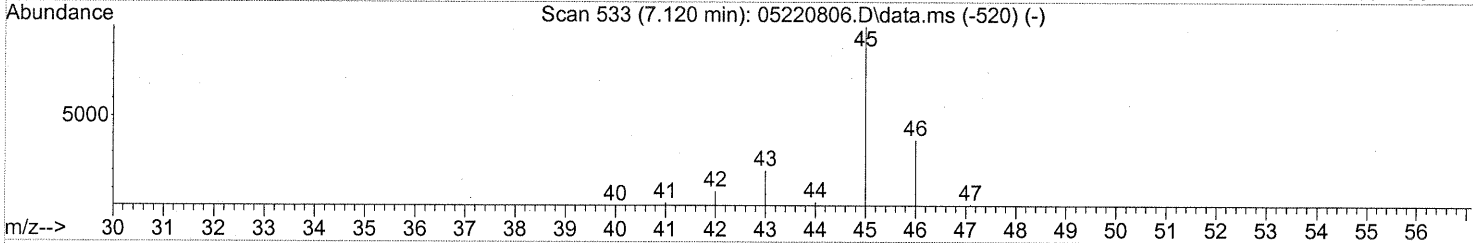
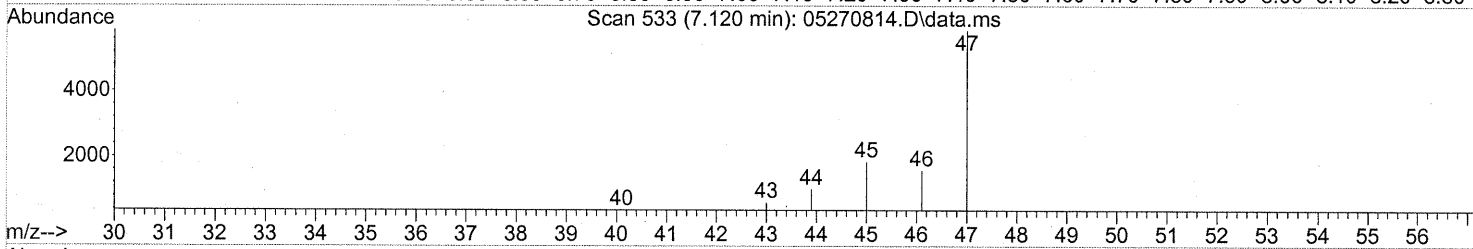
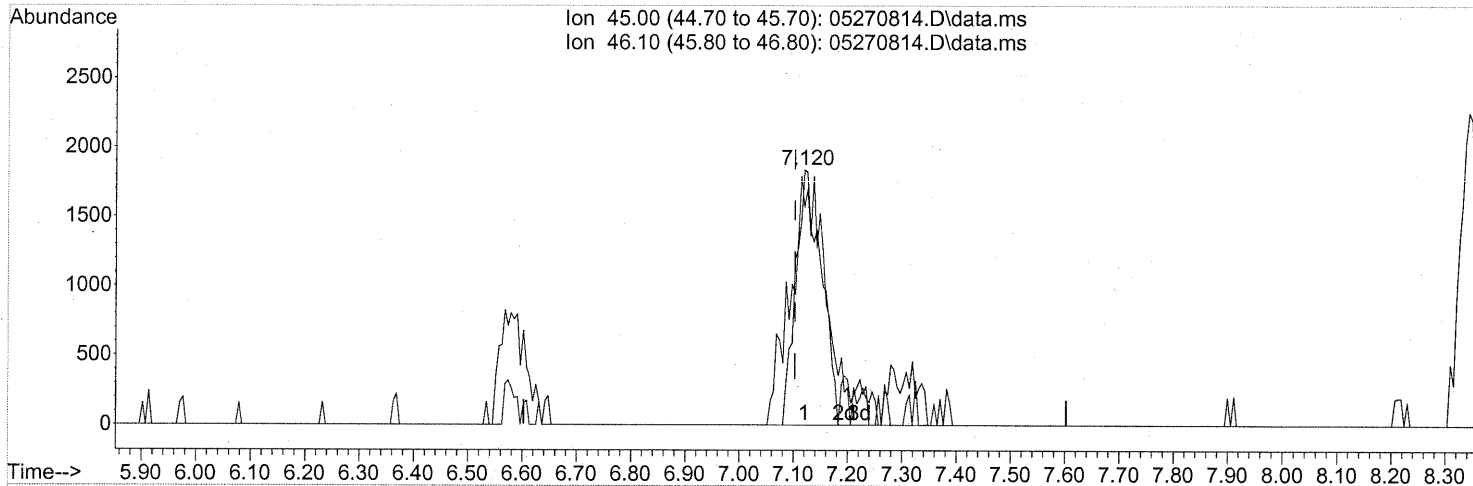
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	132.14#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.120min (+0.017) 0.36ng m

response 8601

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	93.12#
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

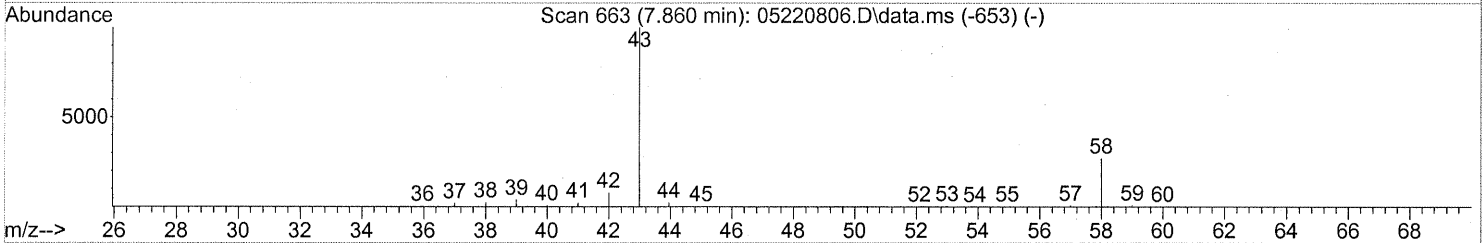
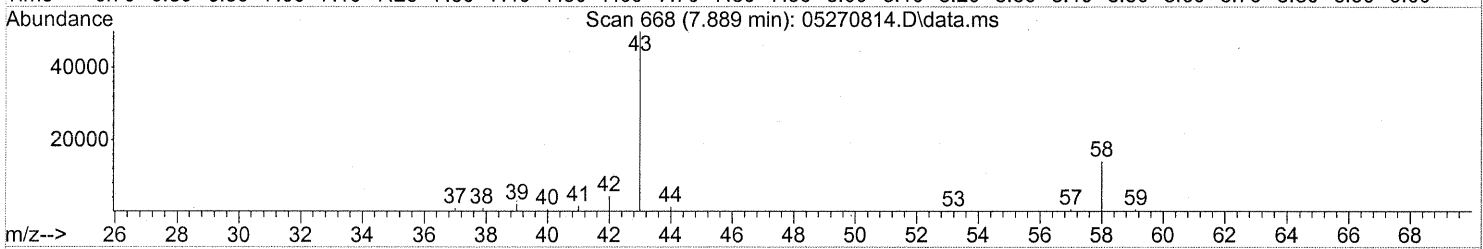
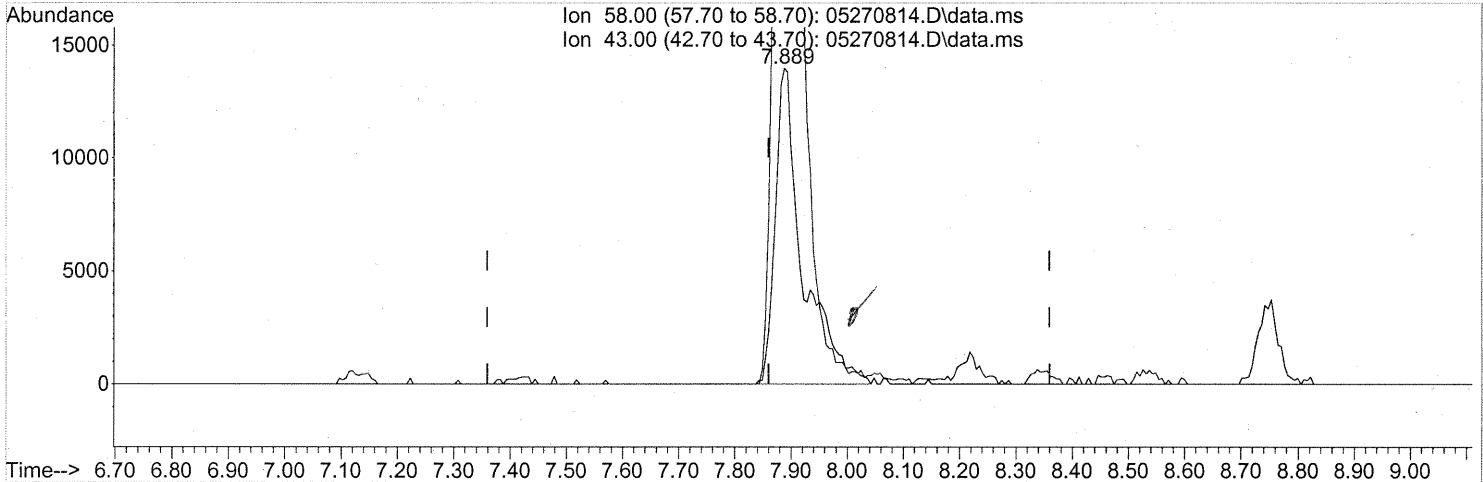
DA 5/21/08

F06/2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 18:54
Operator : WA
Sample : P0801483-014 (150ml)
Misc : ENSR SG82B-05 (-3.7, 3.7)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)
7.889min (+0.029) 1.91ng
response 47108

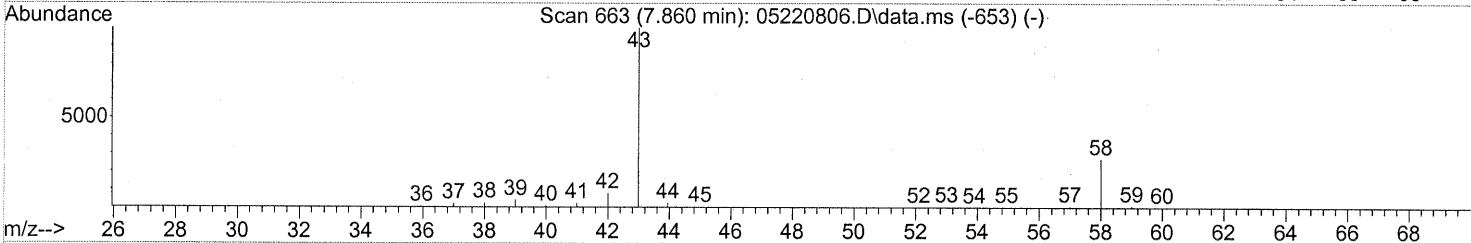
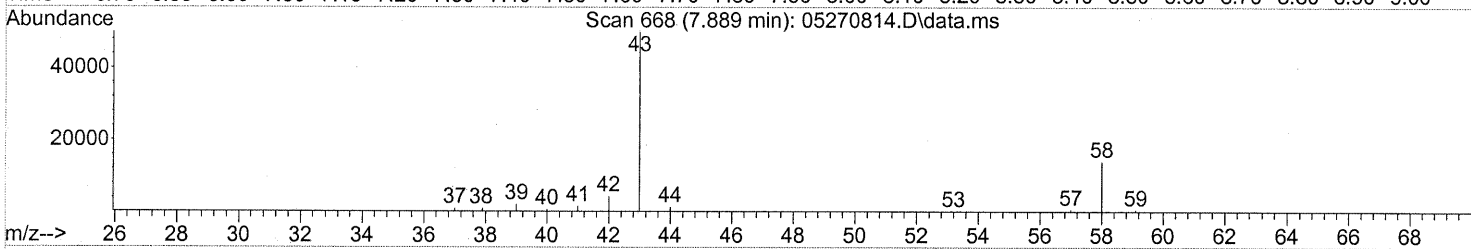
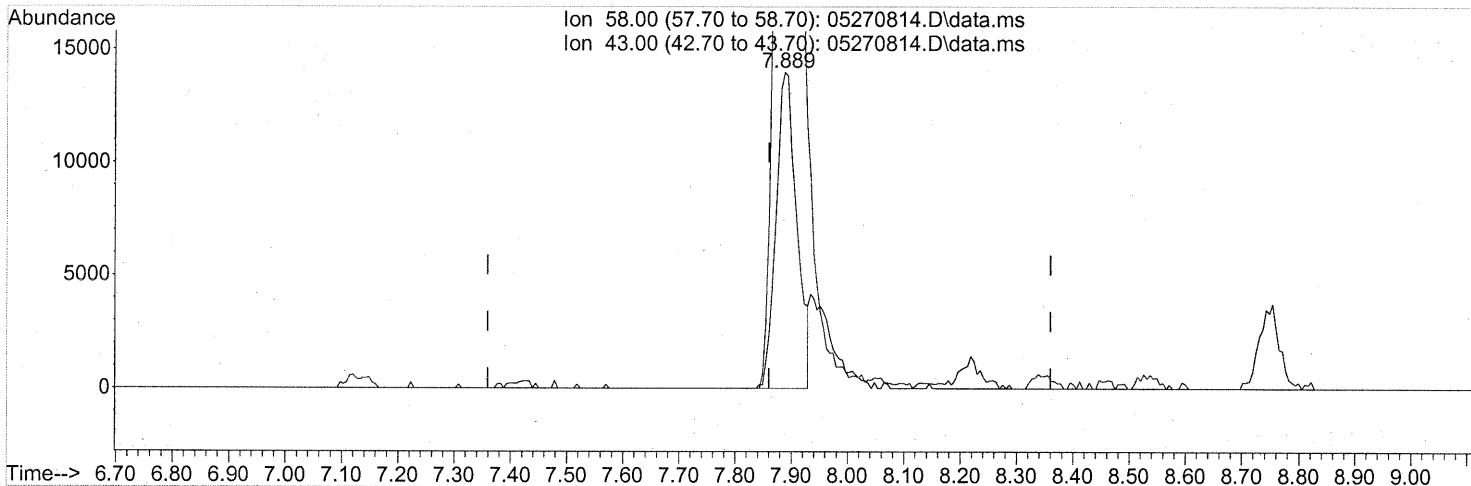
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	310.76
0.00	0.00	0.00
0.00	0.00	0.00

interf. shoulder

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 18:54
Operator : WA
Sample : P0801483-014 (150ml)
Misc : ENSR SG82B-05 (-3.7, 3.7)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270814.D\data.ms

(13) Acetone (T)
7.889min (+0.029) 1.44ng m
response 35591

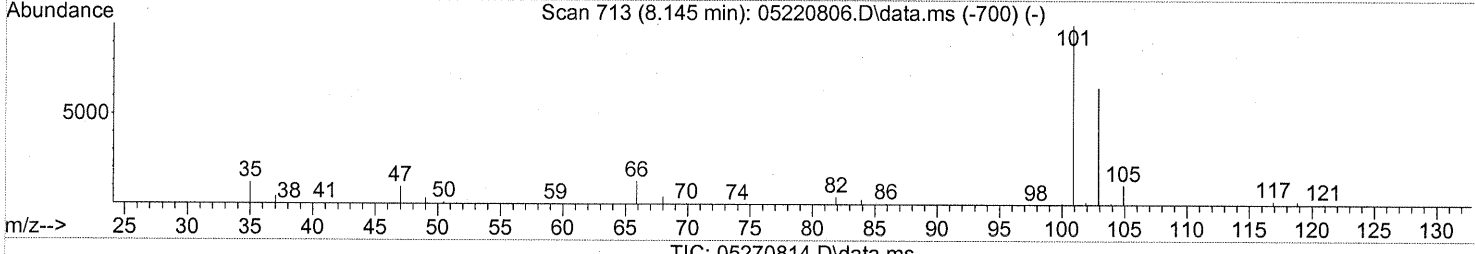
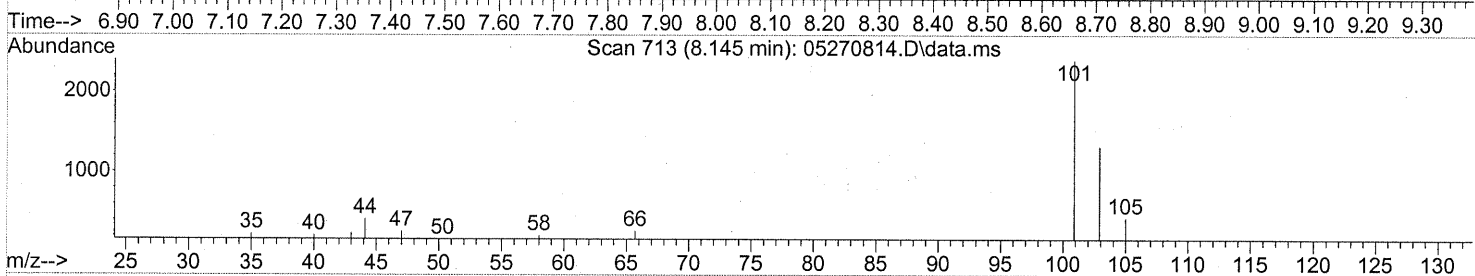
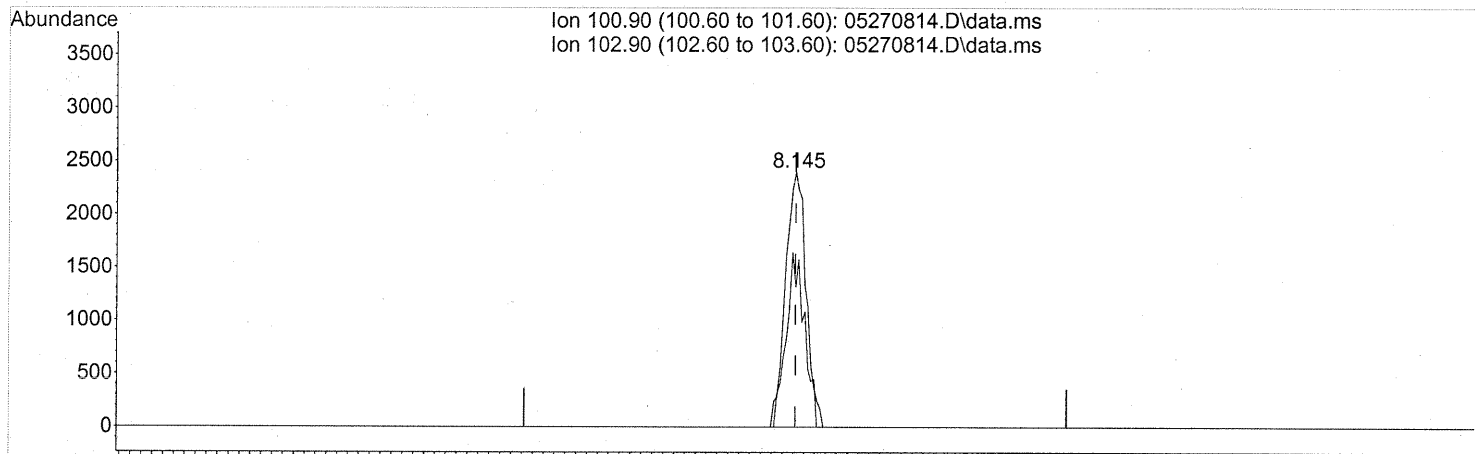
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	411.31#
0.00	0.00	0.00
0.00	0.00	0.00

Ab. shoulder
WA 5/27/08
Rog/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.145min (+0.000) 0.11ng

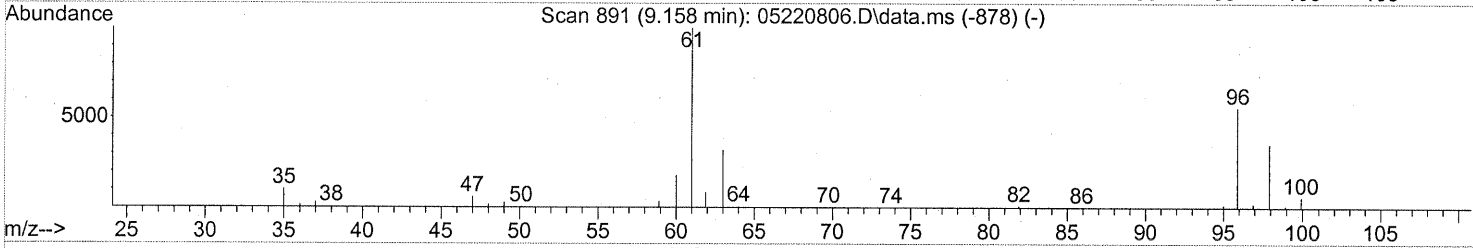
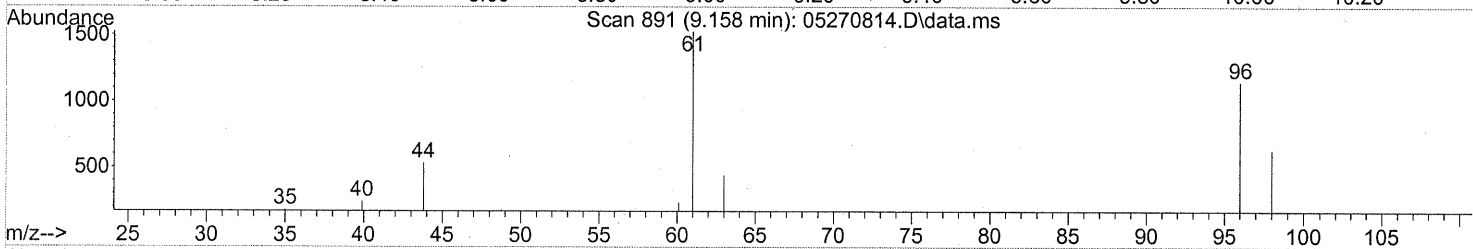
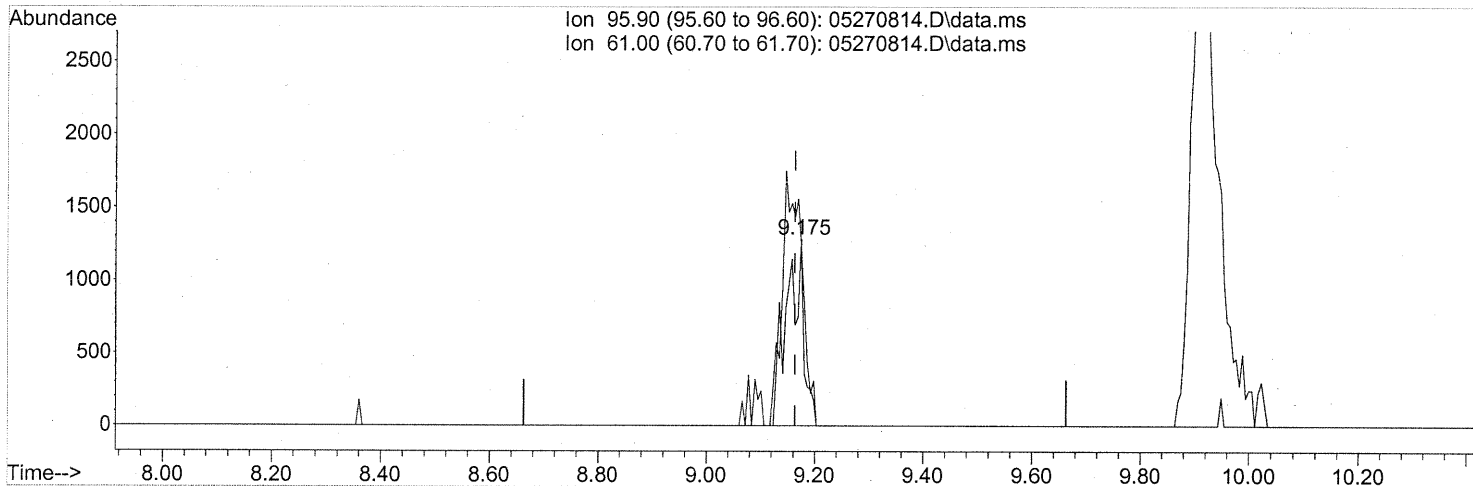
response 6298

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	61.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.175min (+0.011) 0.11ng

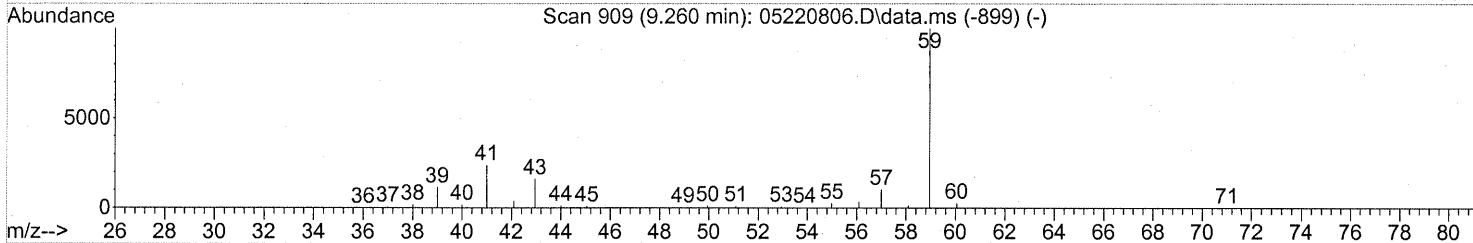
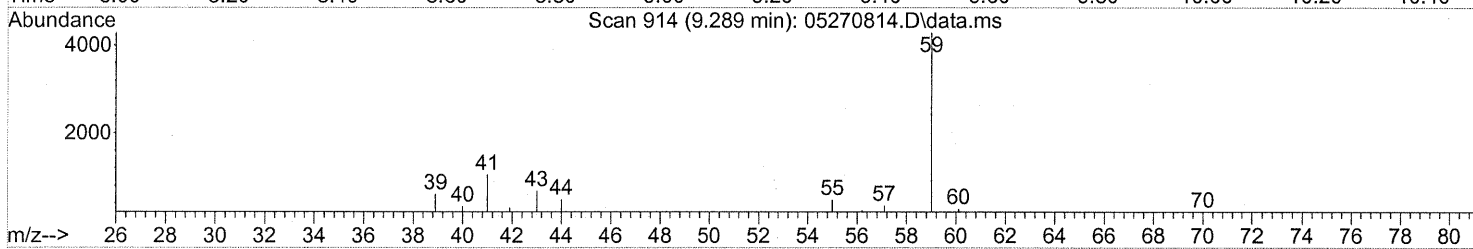
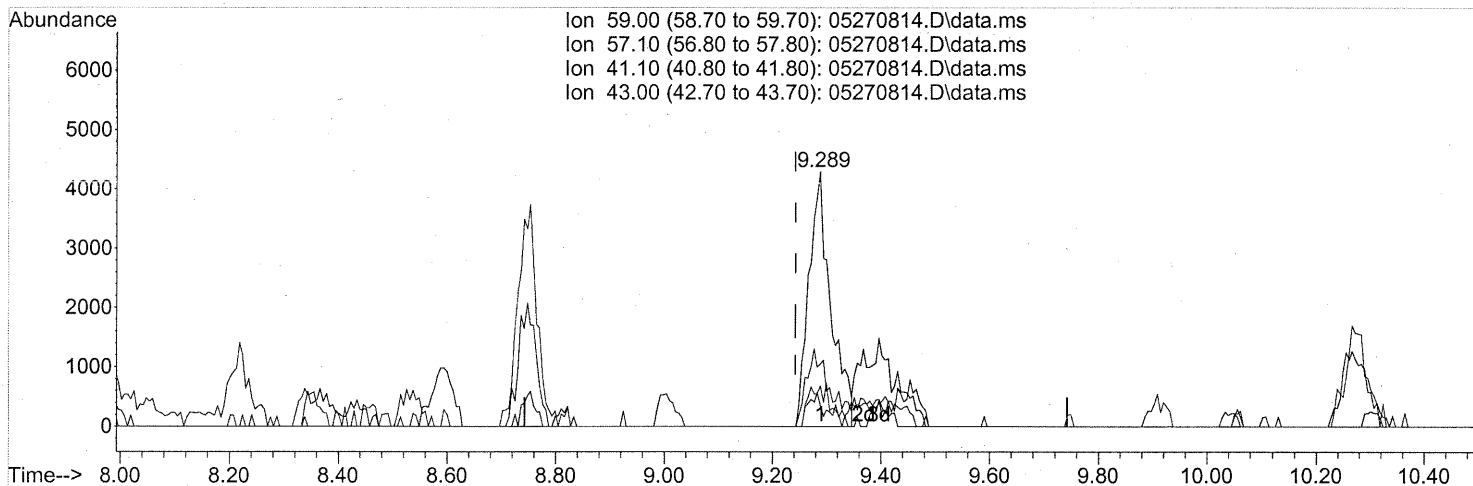
response 2820

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)
 9.289min (+0.046) 0.18ng
 response 11999

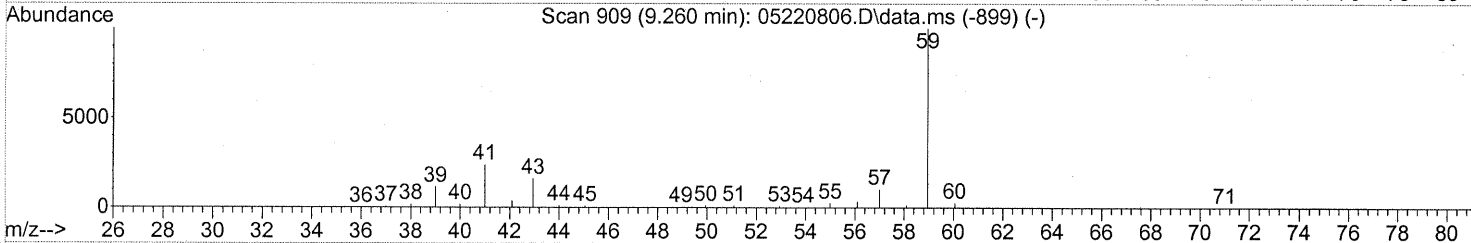
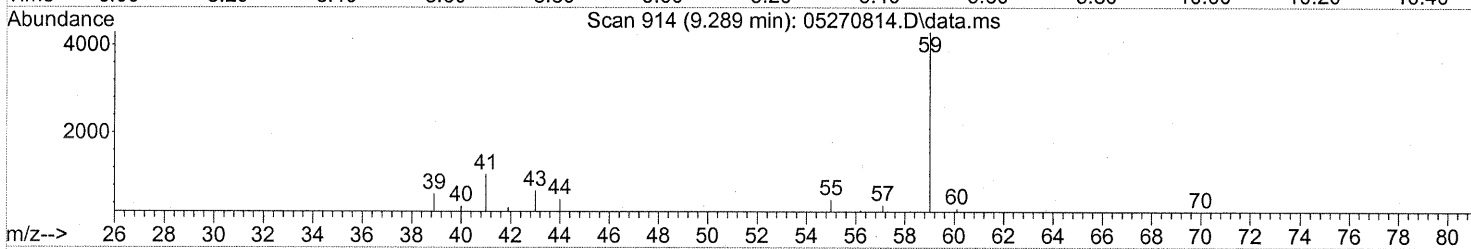
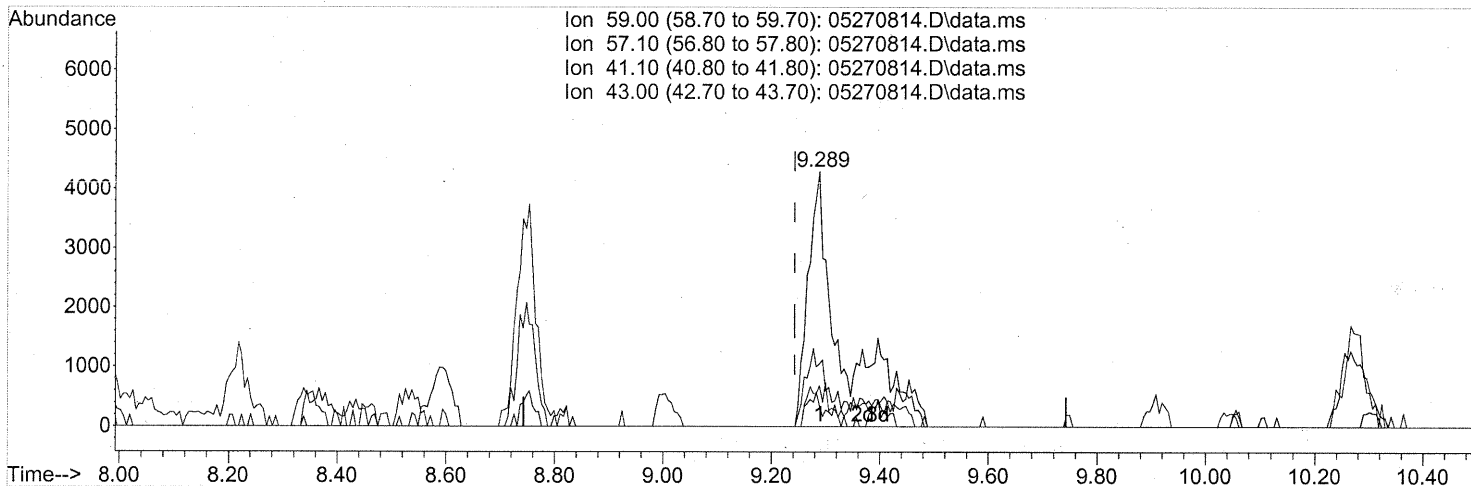
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.00
41.10	20.10	0.00#
43.00	12.30	15.50

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.289min (+0.046) 0.28ng m

response 18415

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.00
41.10	20.10	0.00#
43.00	12.30	10.10

int. whole plates

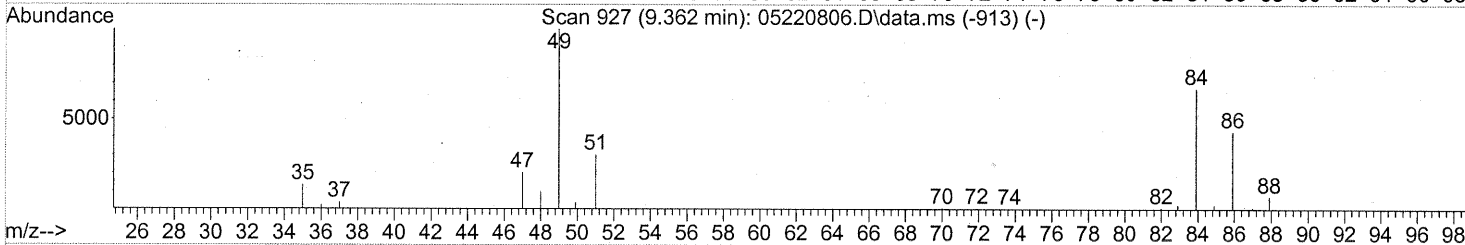
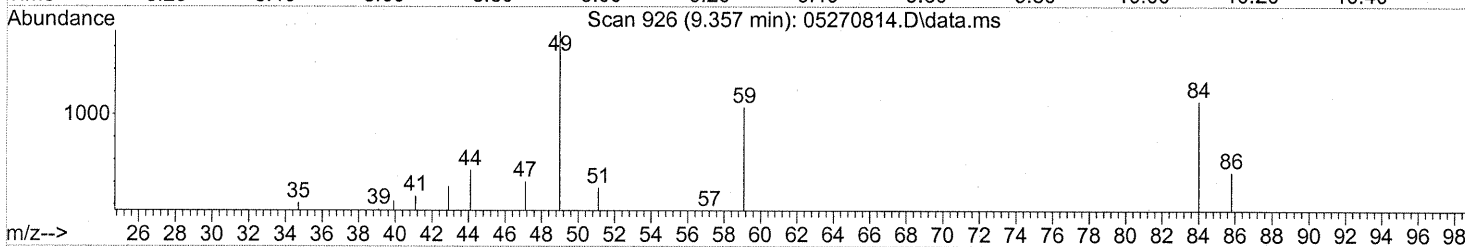
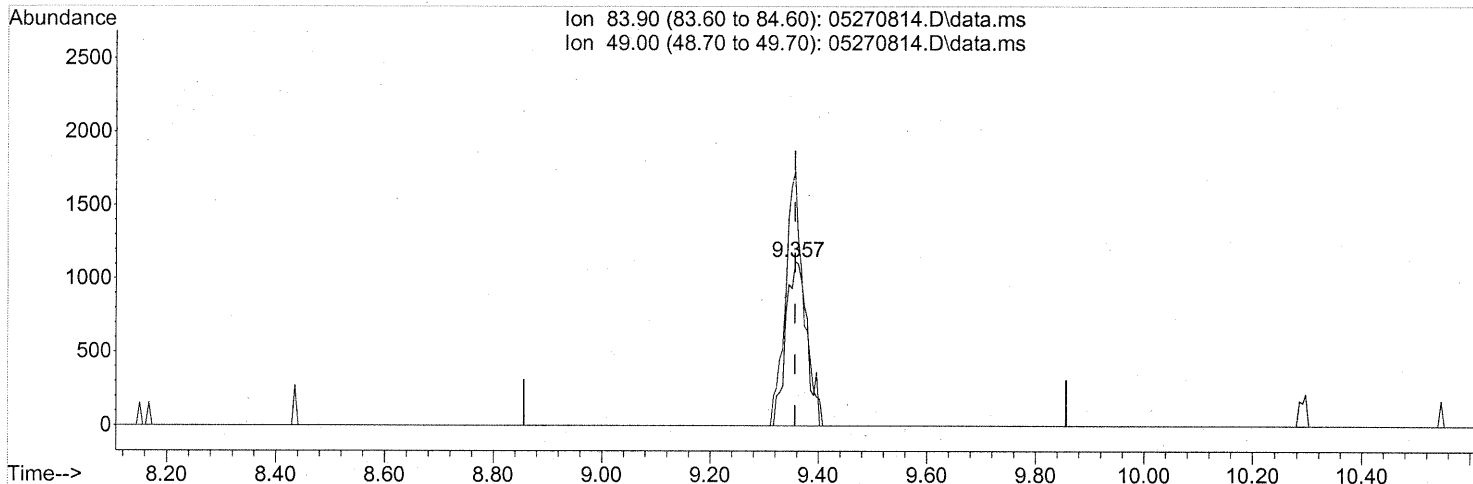
DA 5/31/08

R 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(19) Methylene Chloride (T)

9.357min (+0.000) 0.11ng

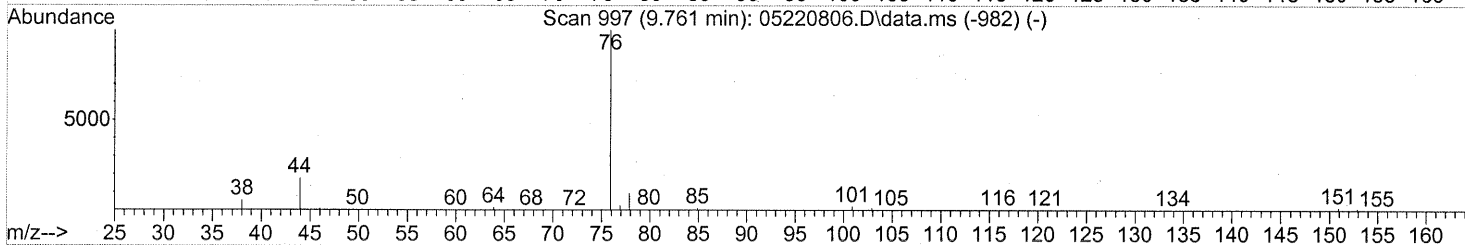
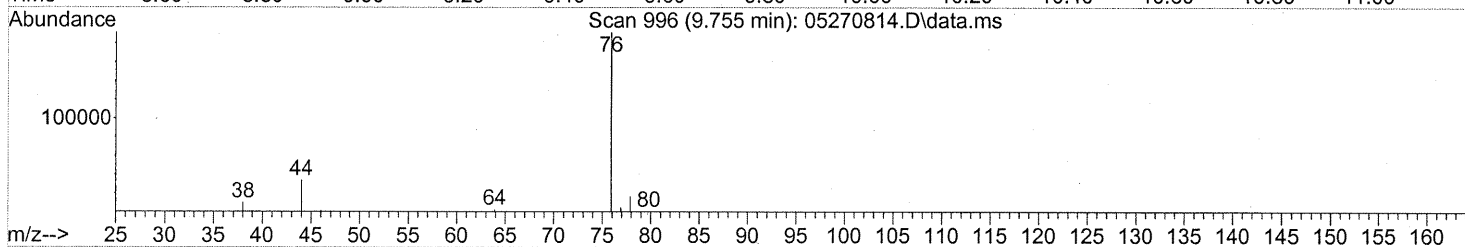
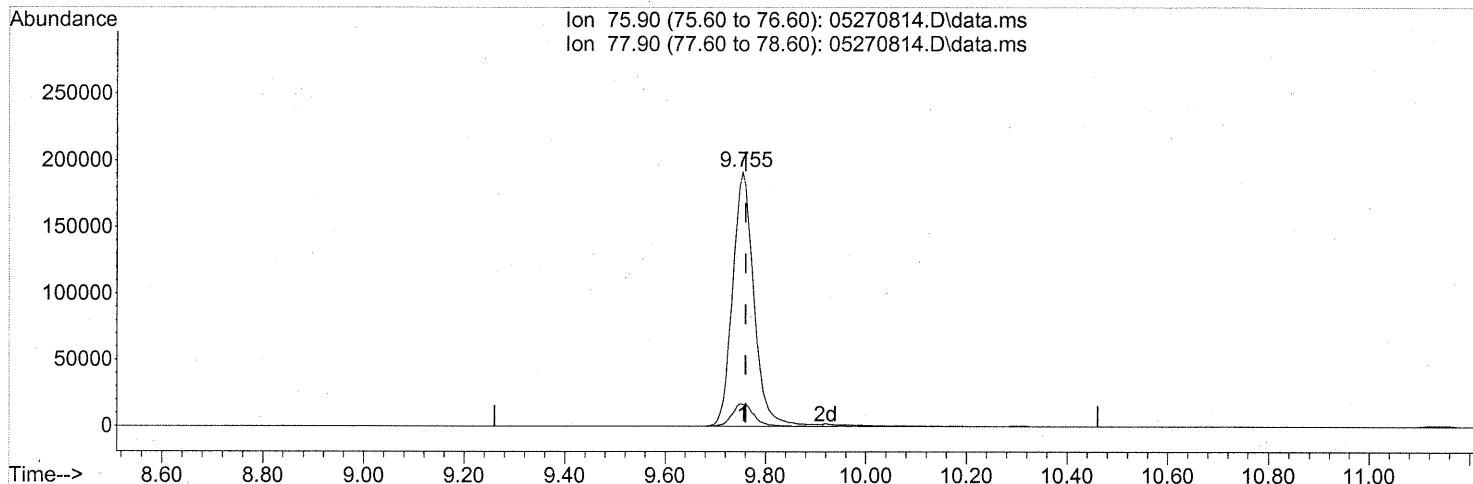
response 3035

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	132.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(22) Carbon Disulfide (T)

9.755min (-0.006) 5.38ng

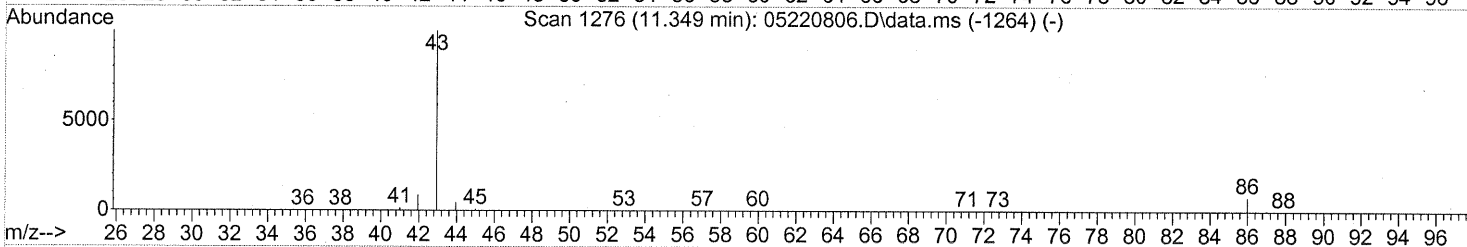
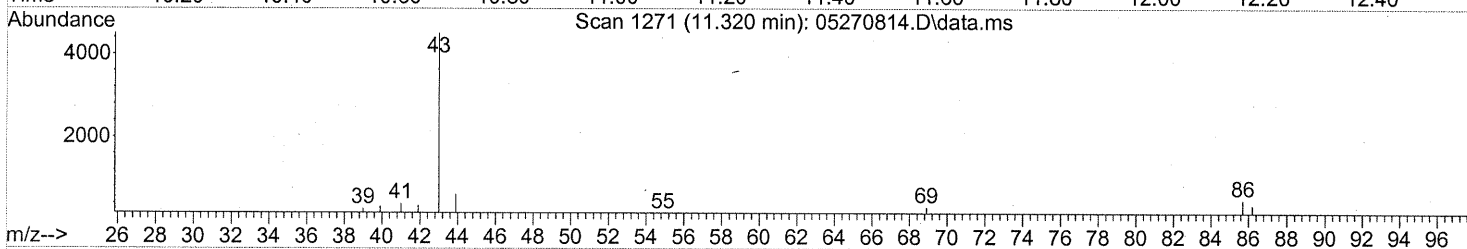
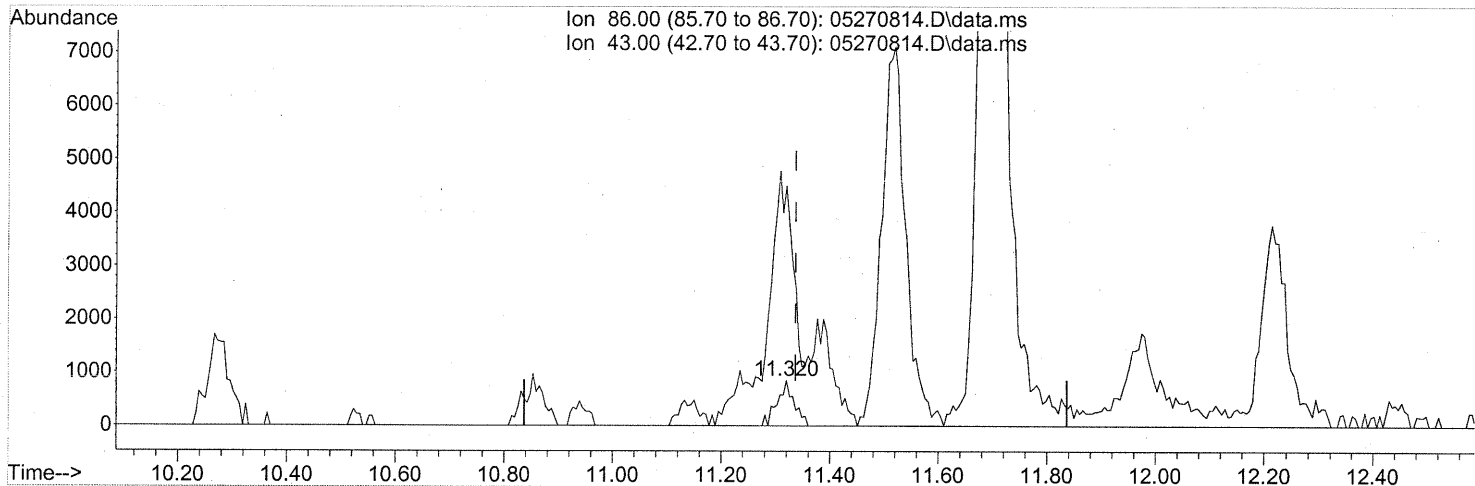
response 563351

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(26) Vinyl Acetate (T)

11.320min (-0.017) 0.40ng

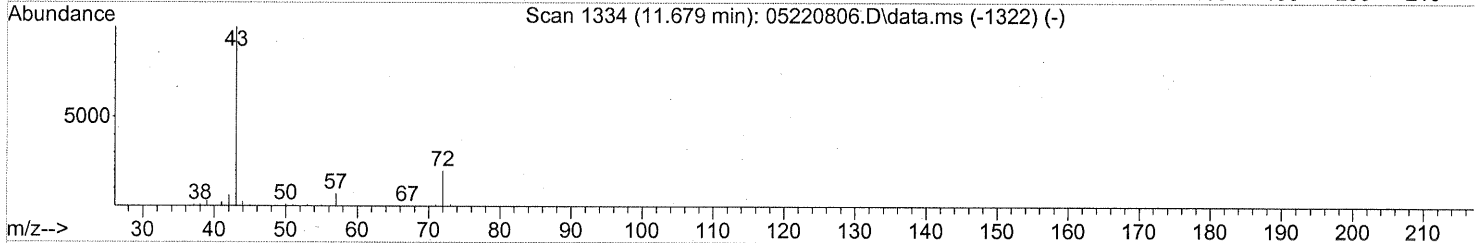
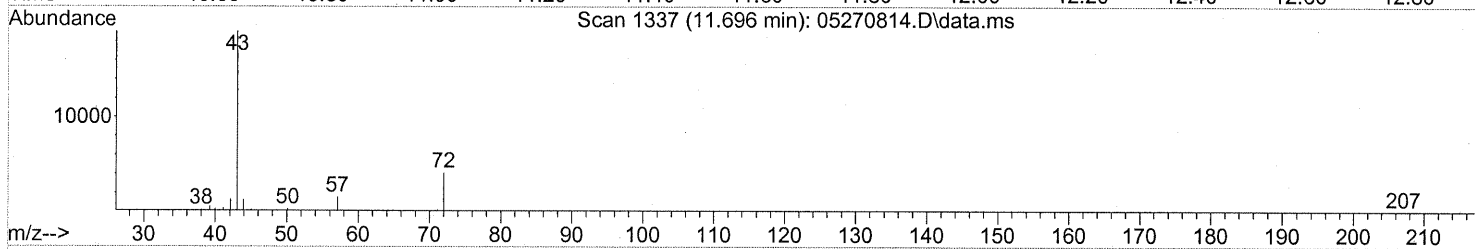
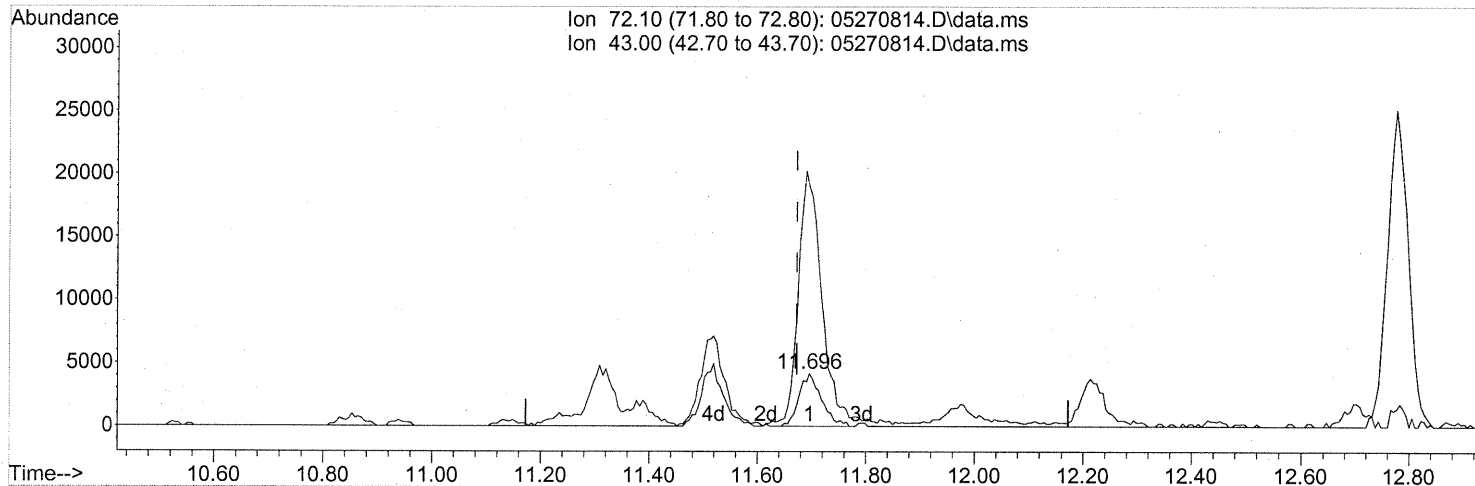
response 1815

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	760.06#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.696min (+0.023) 0.67ng

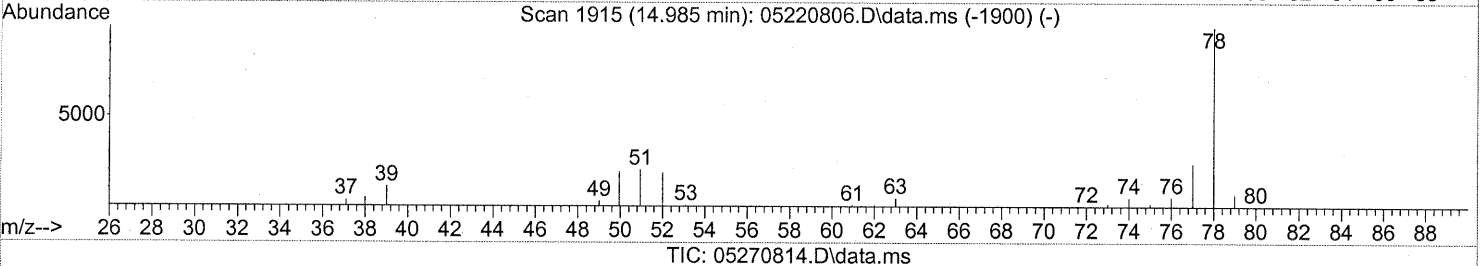
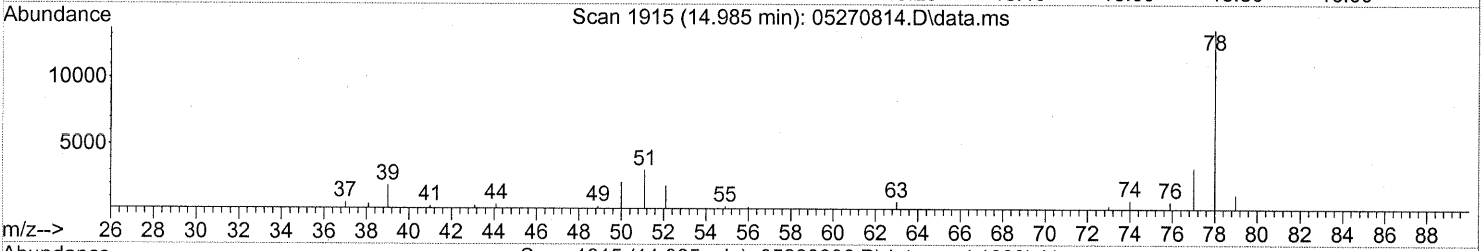
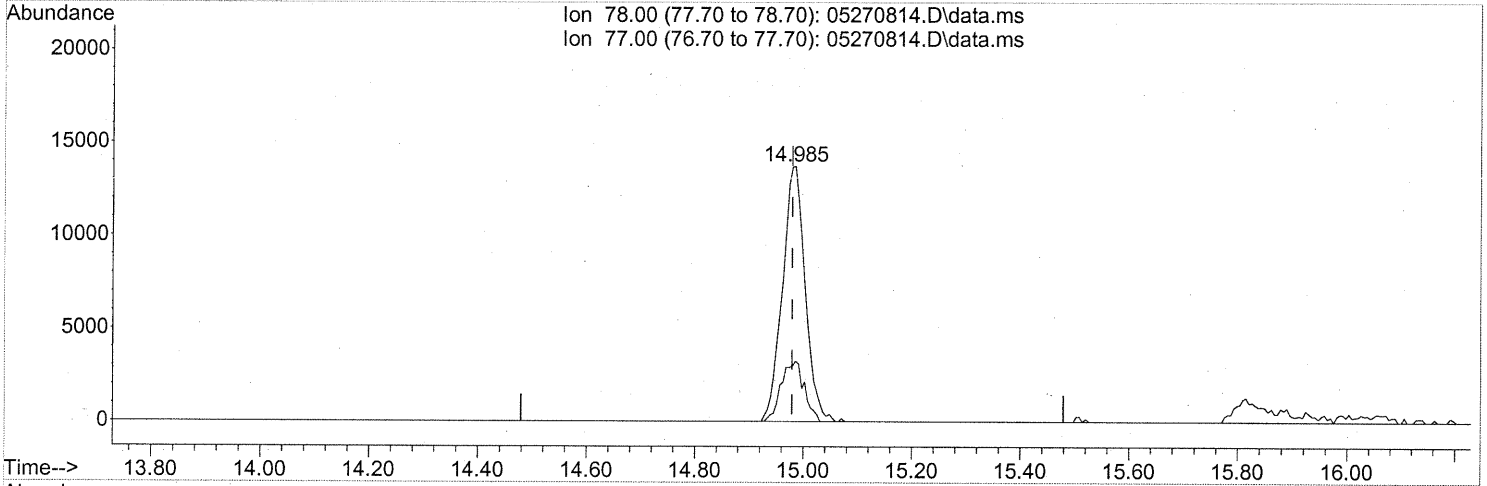
response 11984

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	517.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 18:54
Operator : WA
Sample : P0801483-014 (150ml)
Misc : ENSR SG82B-05 (-3.7, 3.7)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270814.D\data.ms

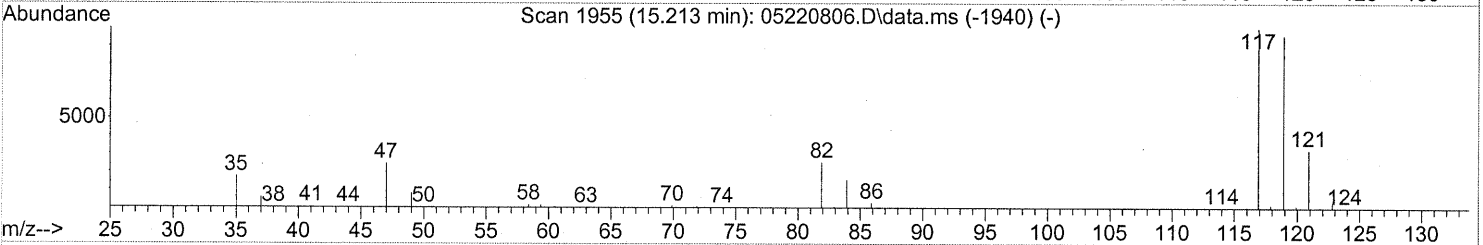
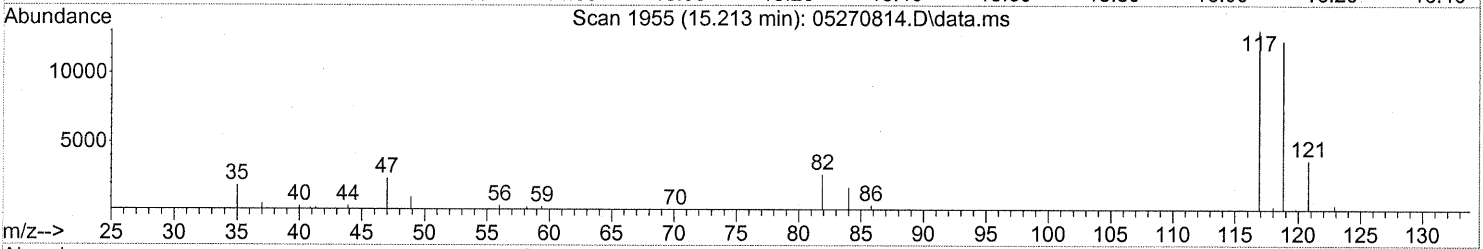
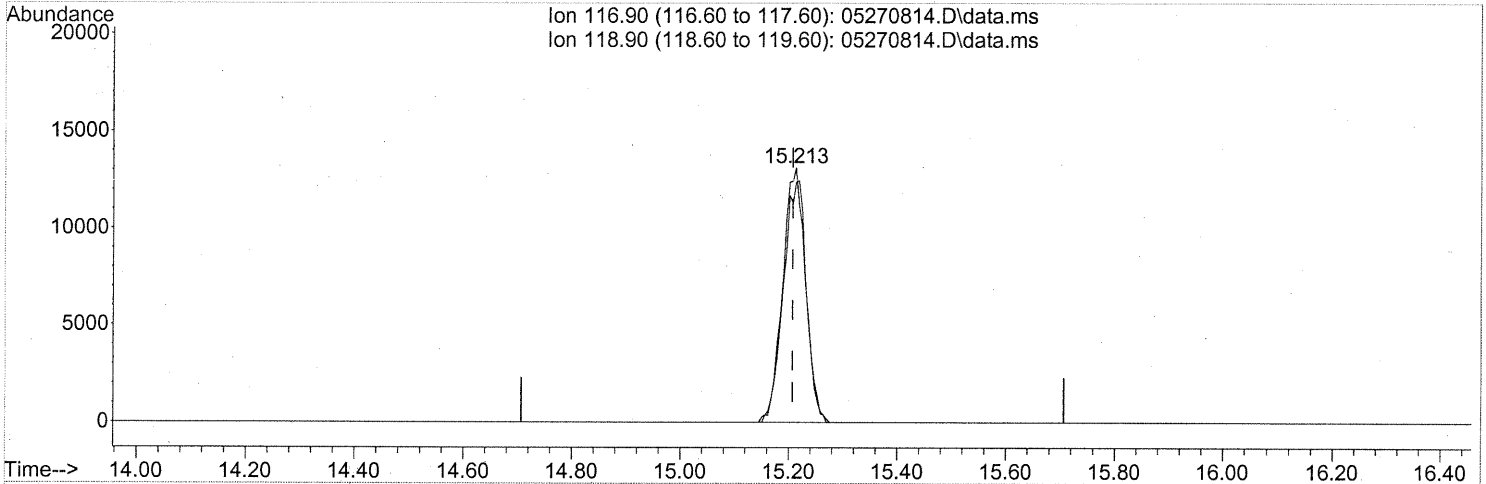
(41) Benzene (T)
14.985min (+0.006) 0.39ng
response 39605

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.97ng

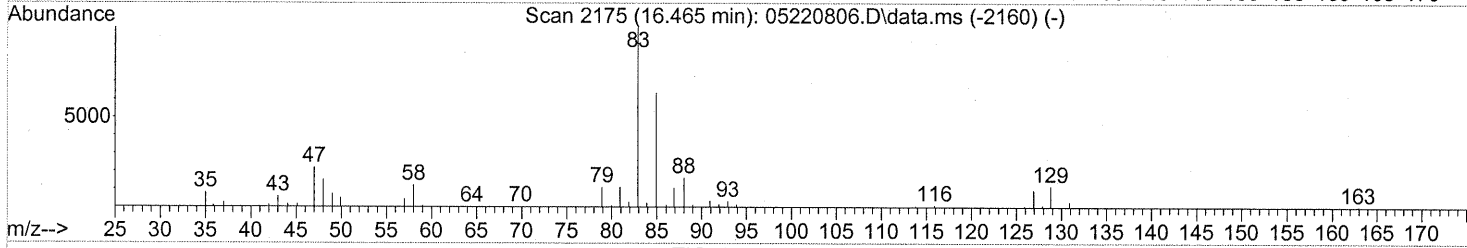
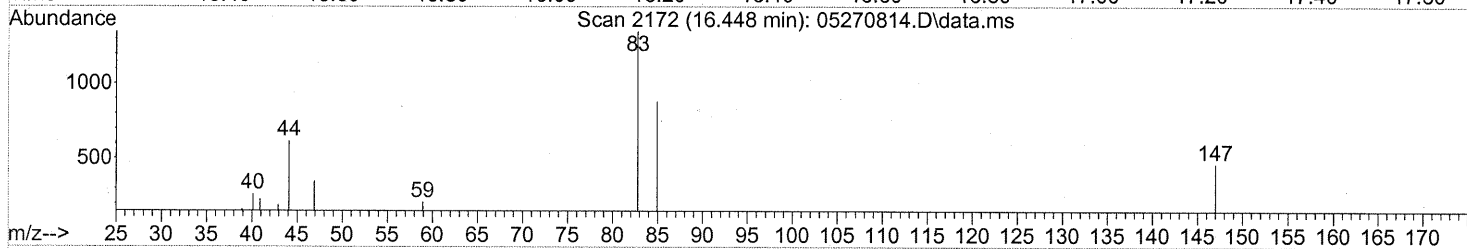
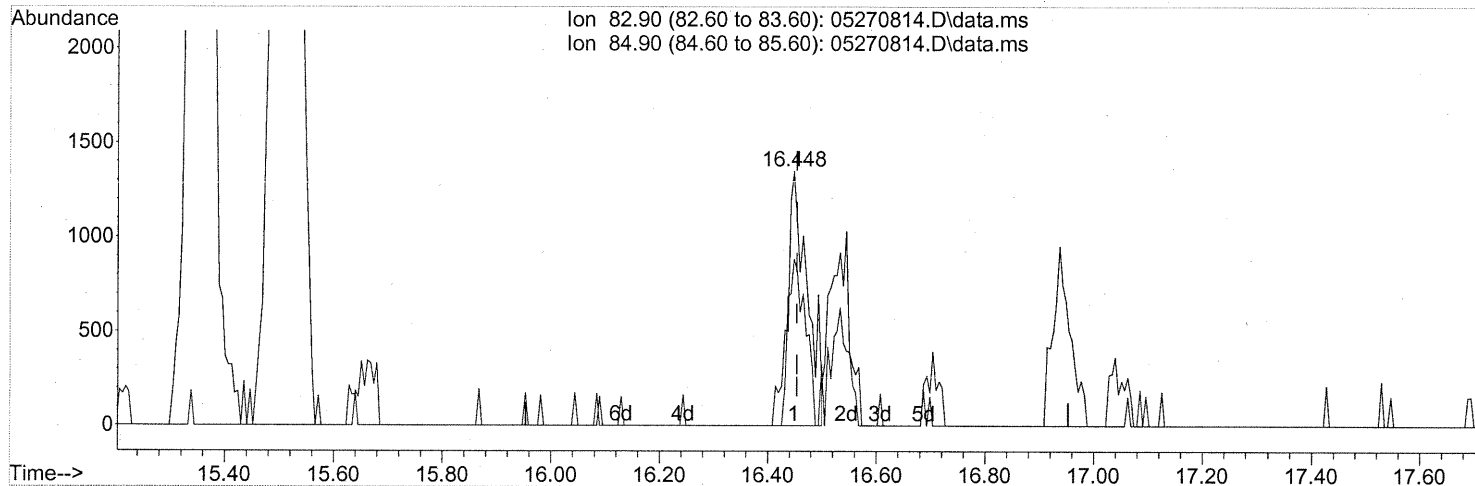
response 38093

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.448min (-0.006) 0.10ng

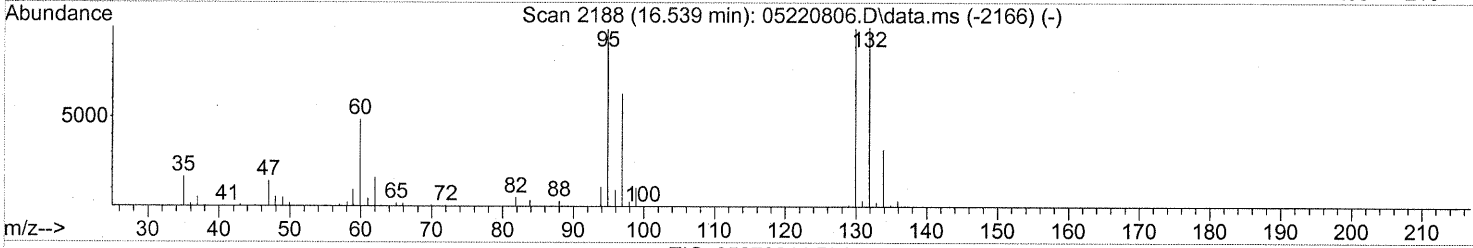
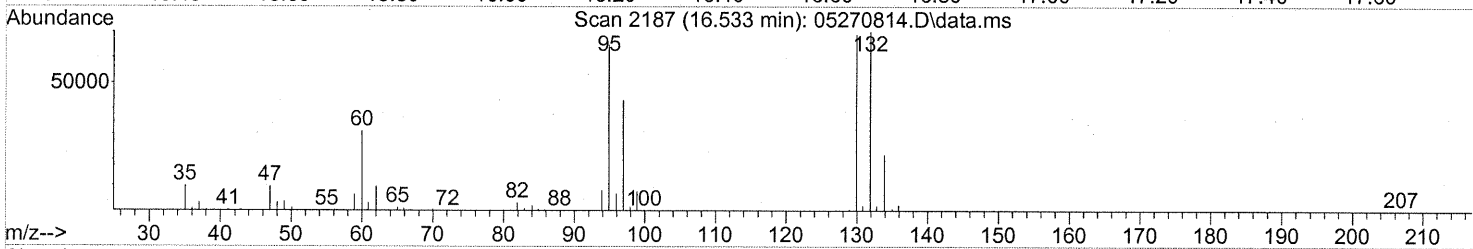
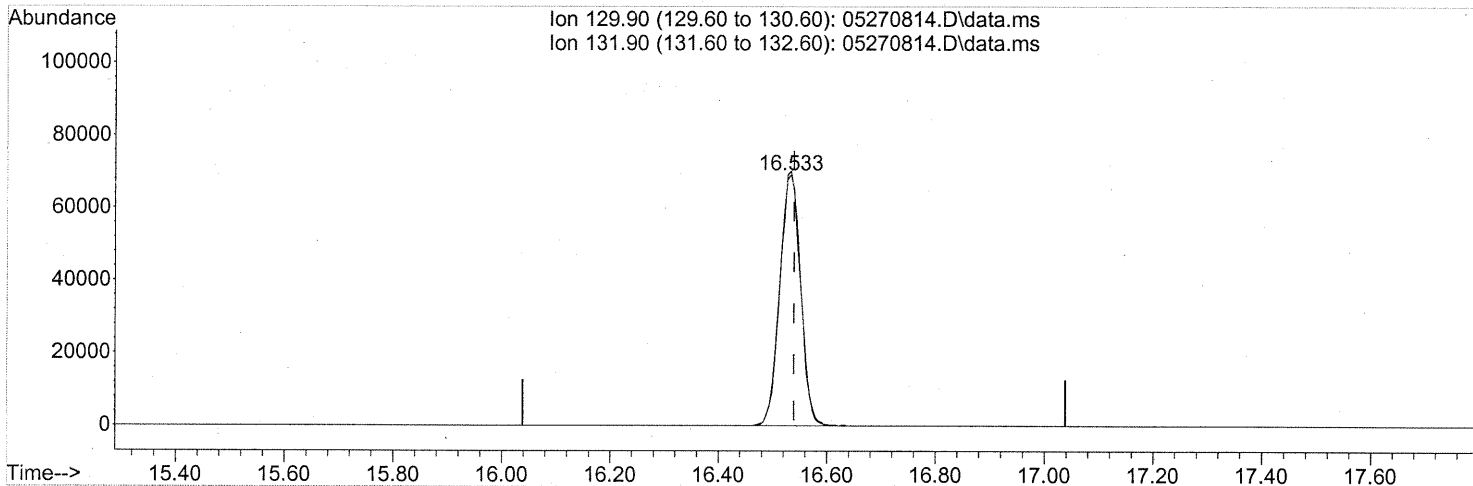
response 3450

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	57.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 5.76ng

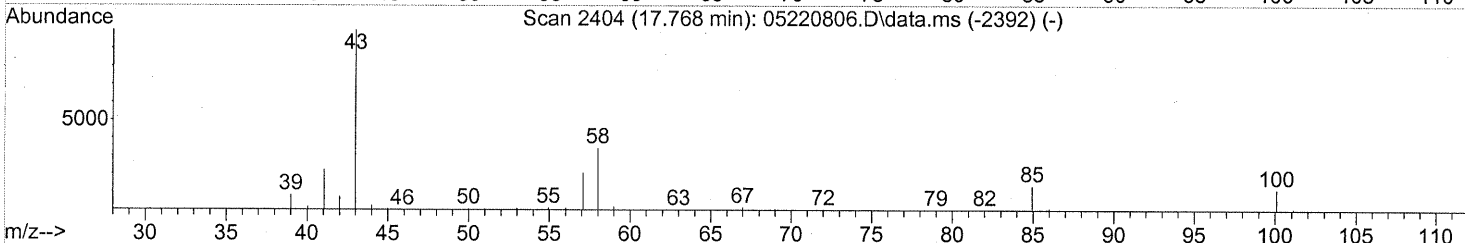
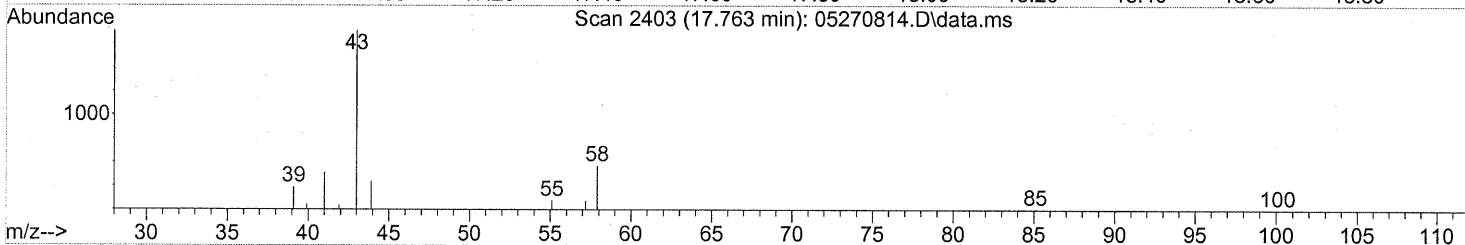
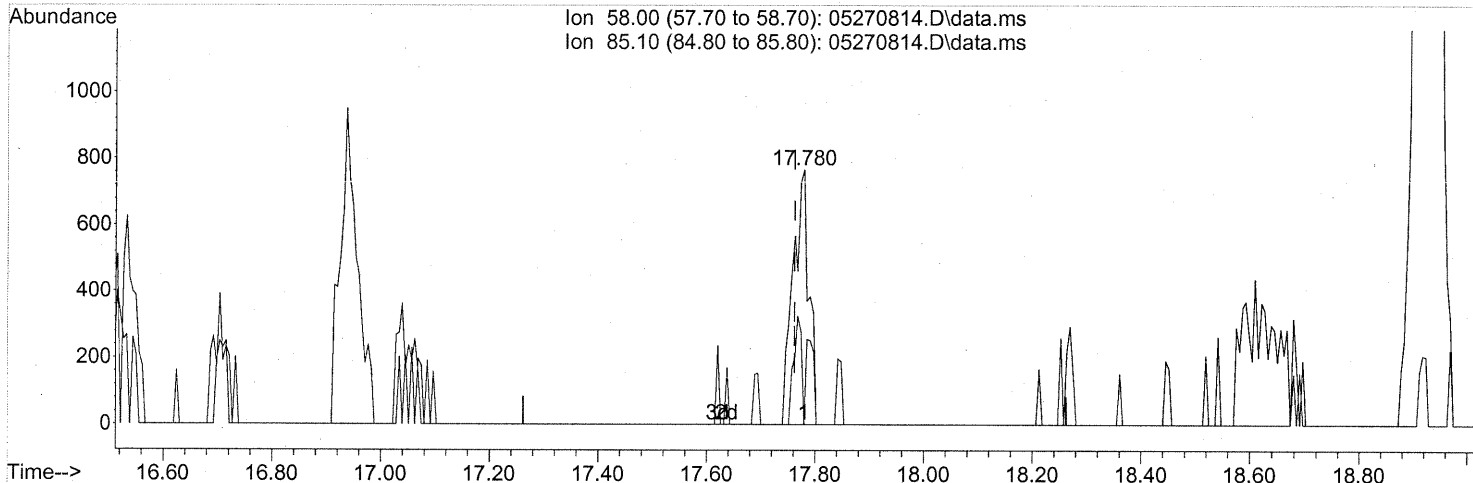
response 180845

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.780min (+0.017) 0.06ng

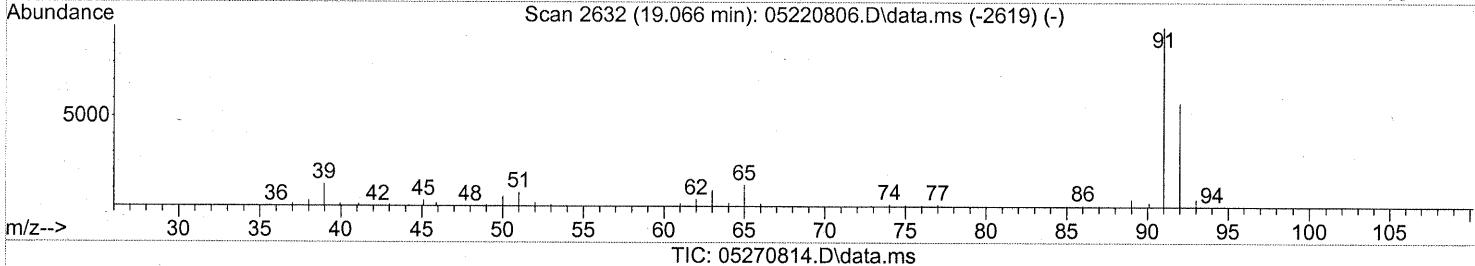
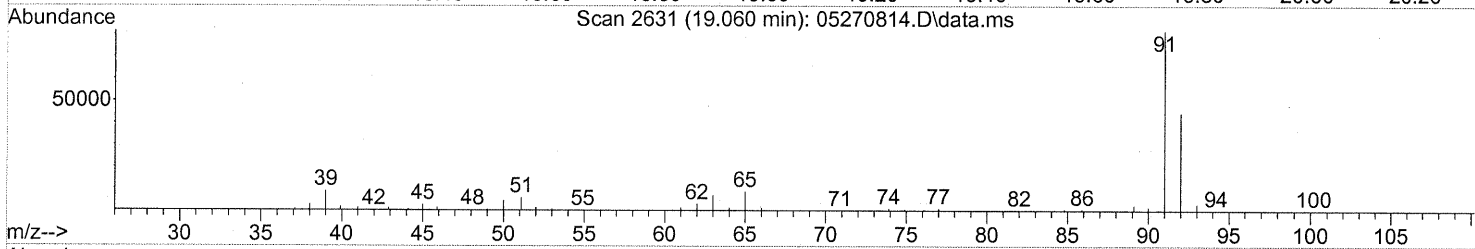
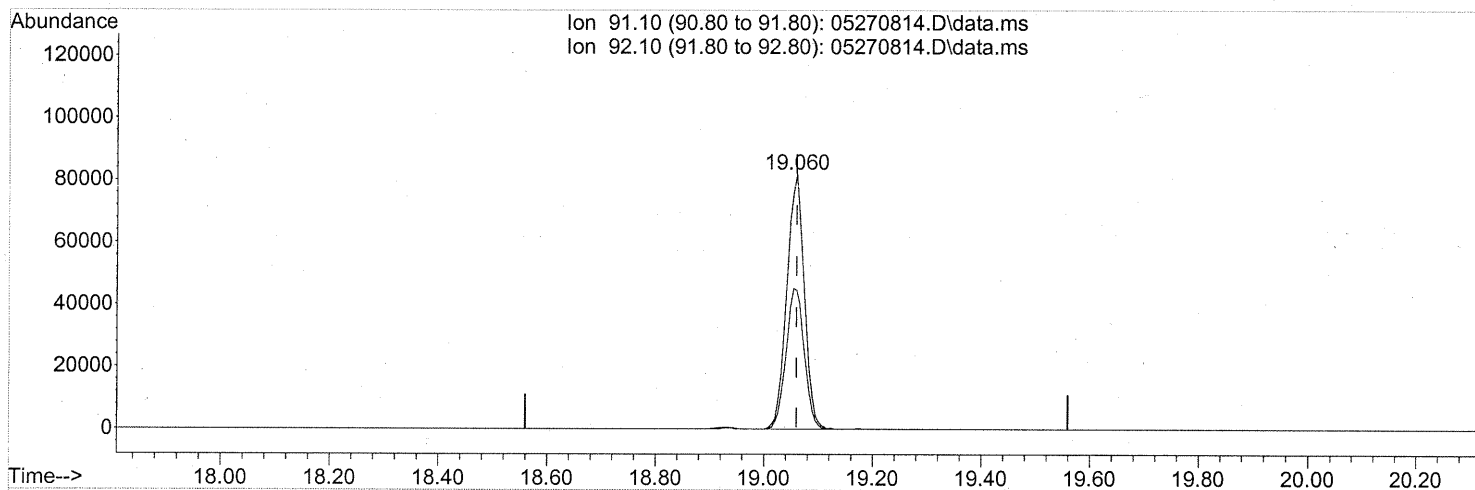
response 1562

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	15.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 18:54
Operator : WA
Sample : P0801483-014 (150ml)
Misc : ENSR SG82B-05 (-3.7, 3.7)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(58) Toluene (T)

19.060min (+0.000) 1.47ng

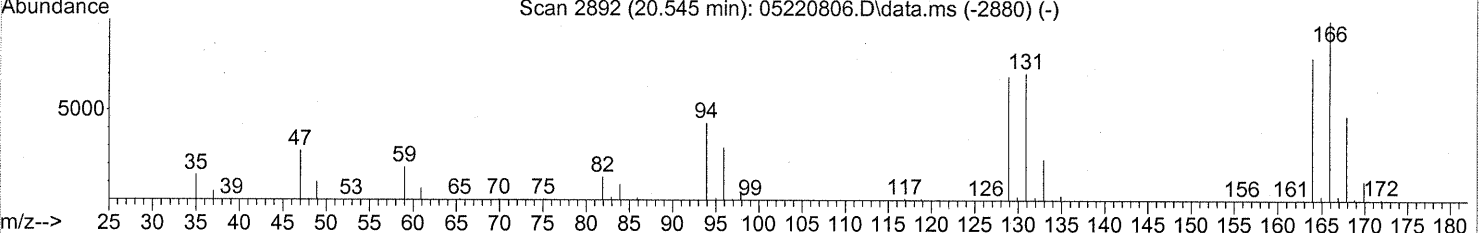
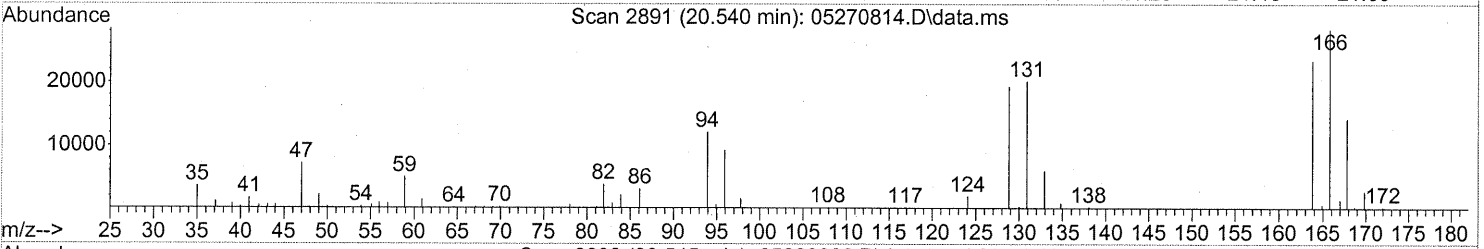
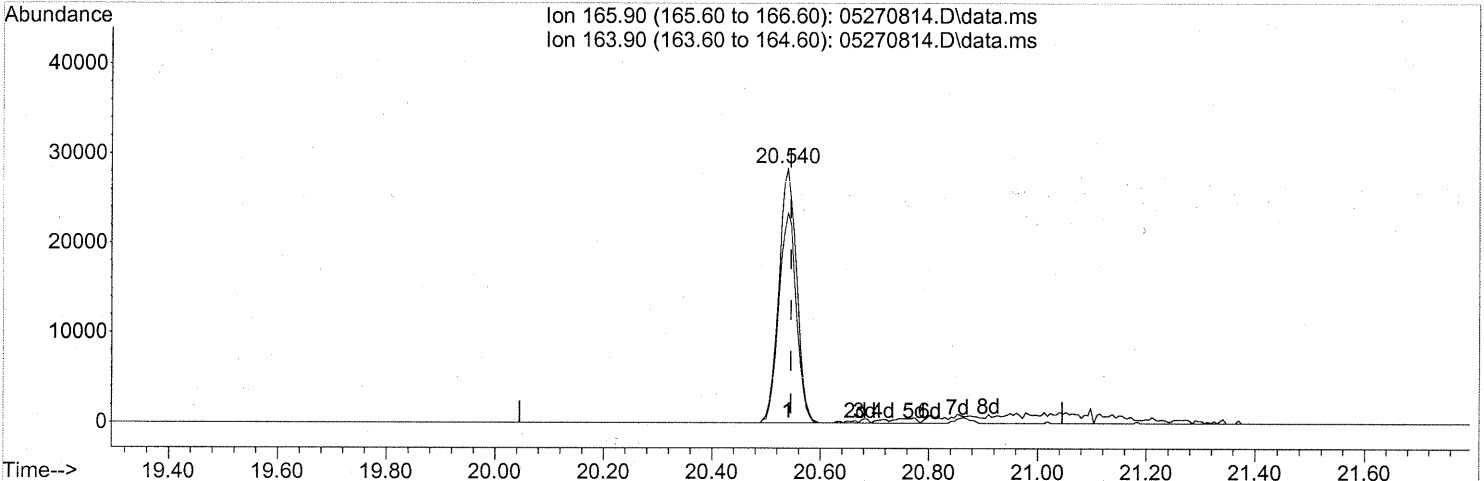
response 182796

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 1.74ng

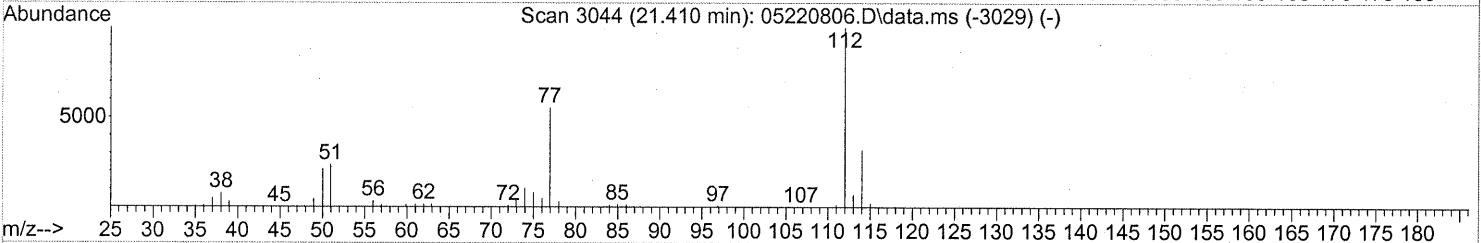
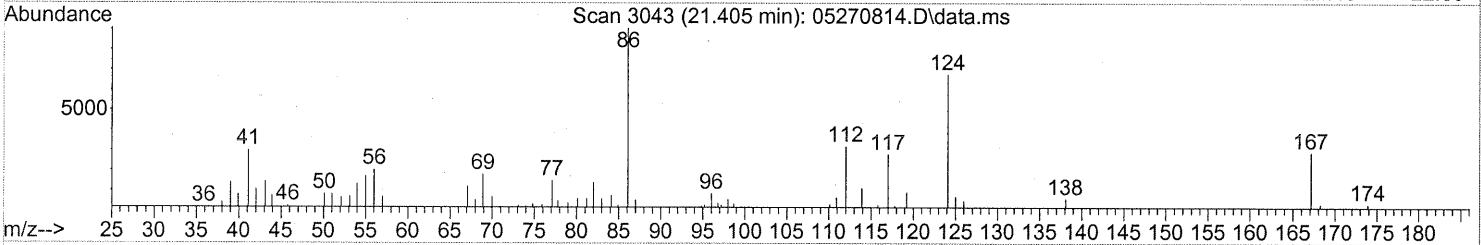
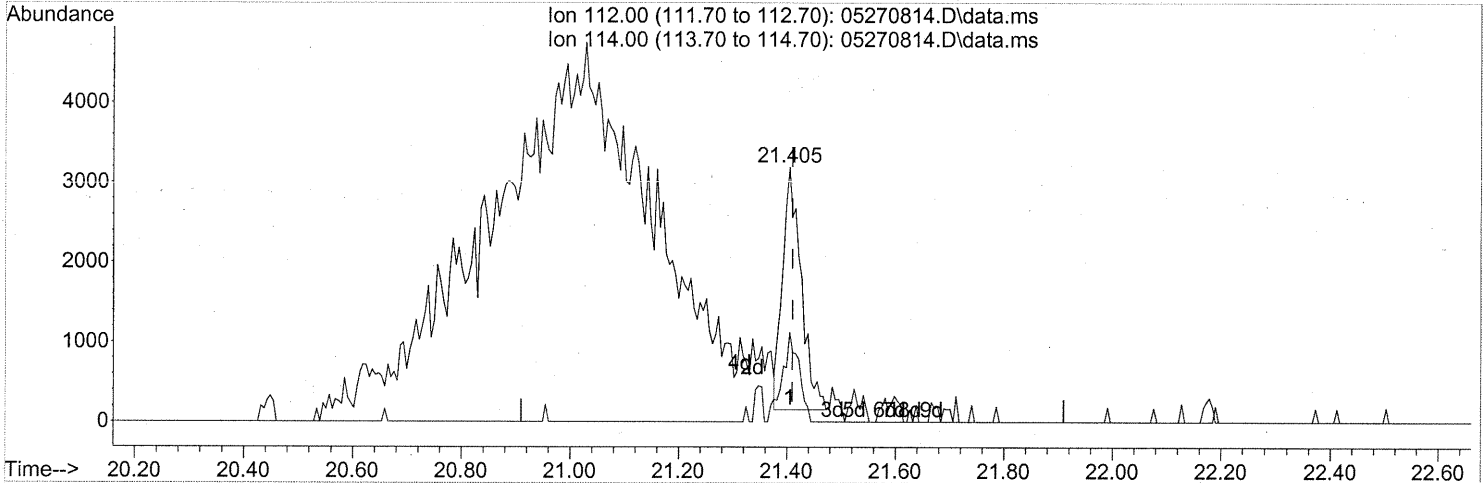
response 64123

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	81.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

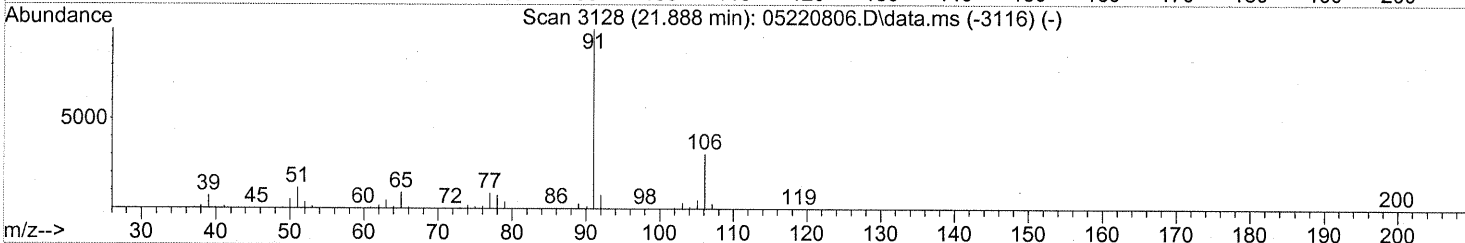
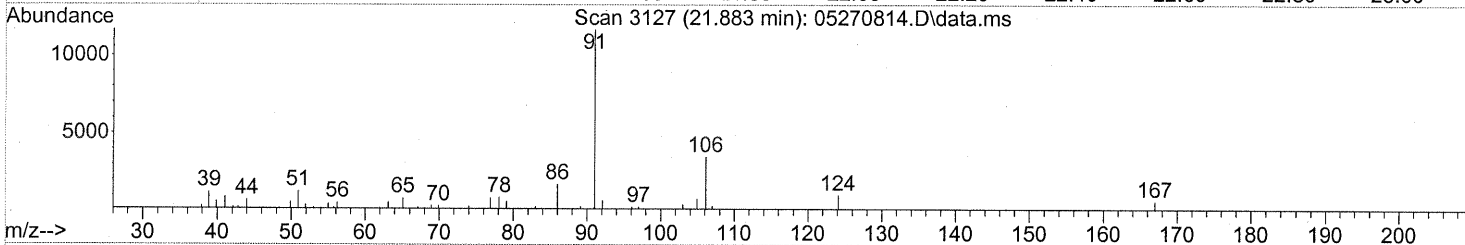
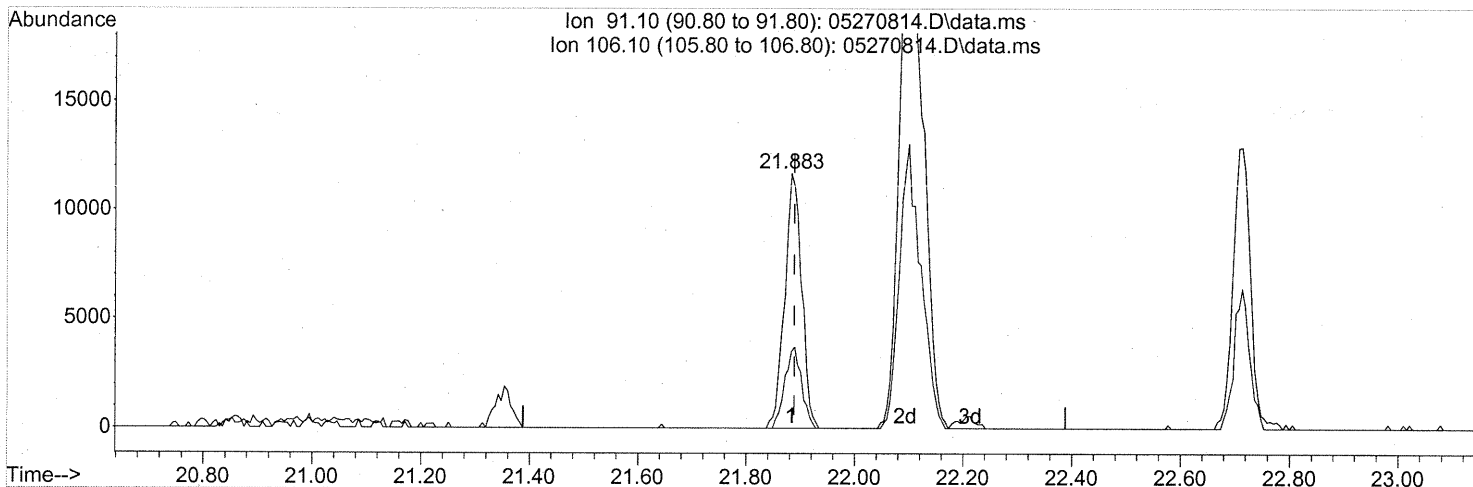
(65) Chlorobenzene (T)
 21.405min (-0.006) 0.09ng
 response 7246

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	33.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

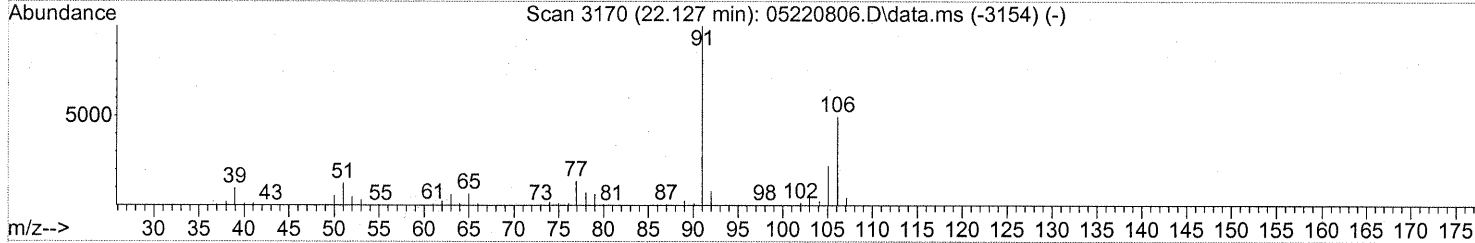
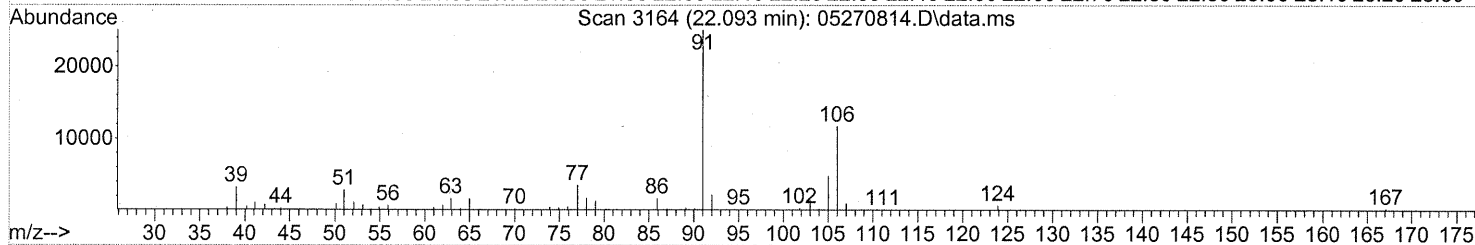
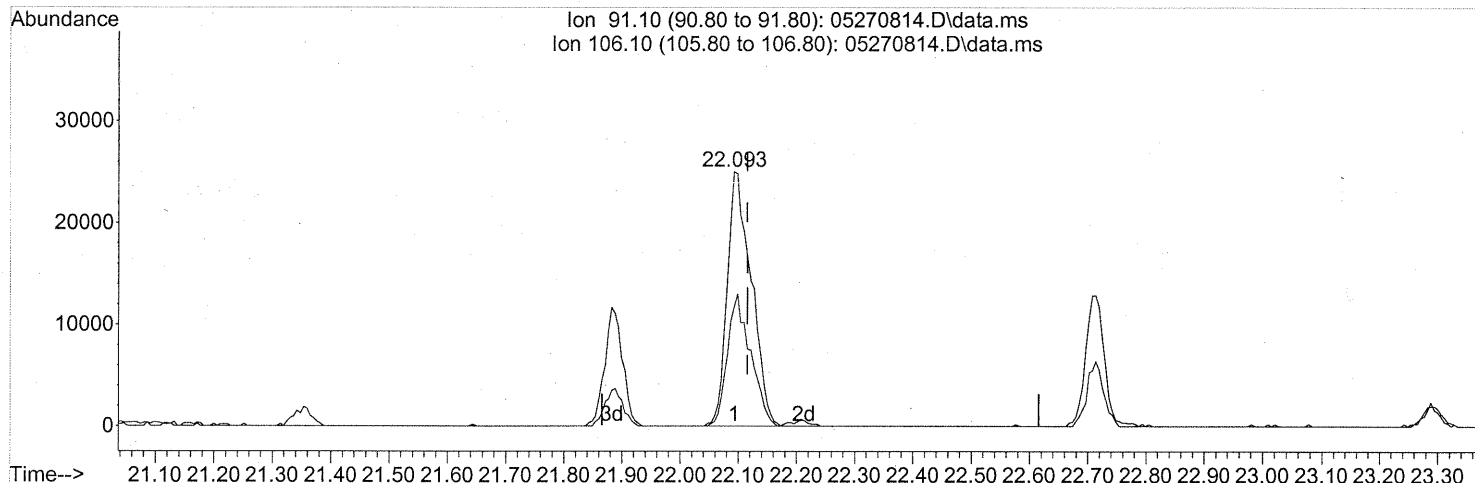
(66) Ethylbenzene (T)
 21.883min (-0.006) 0.18ng
 response 25153

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	31.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(67) m- & p-Xylene (T)

22.093min (-0.023) 0.76ng

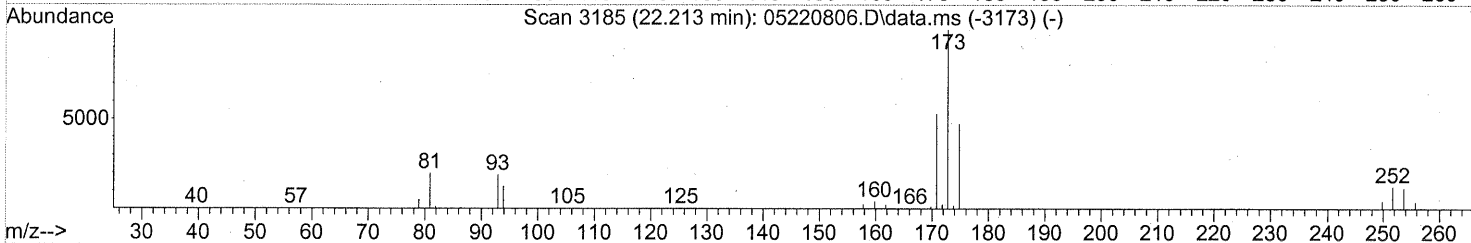
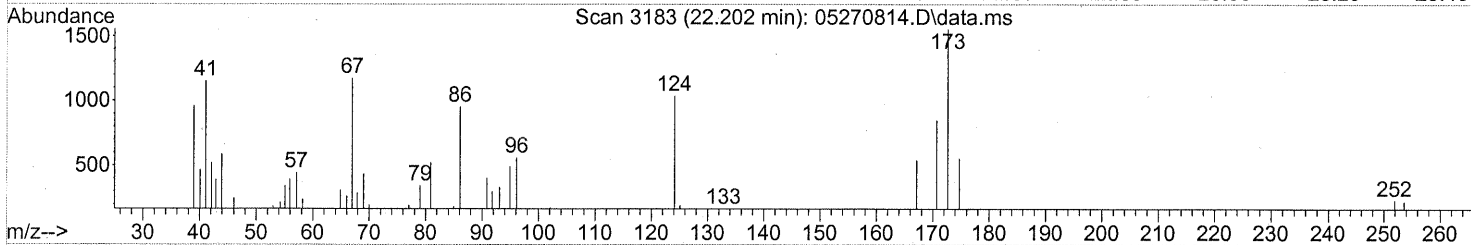
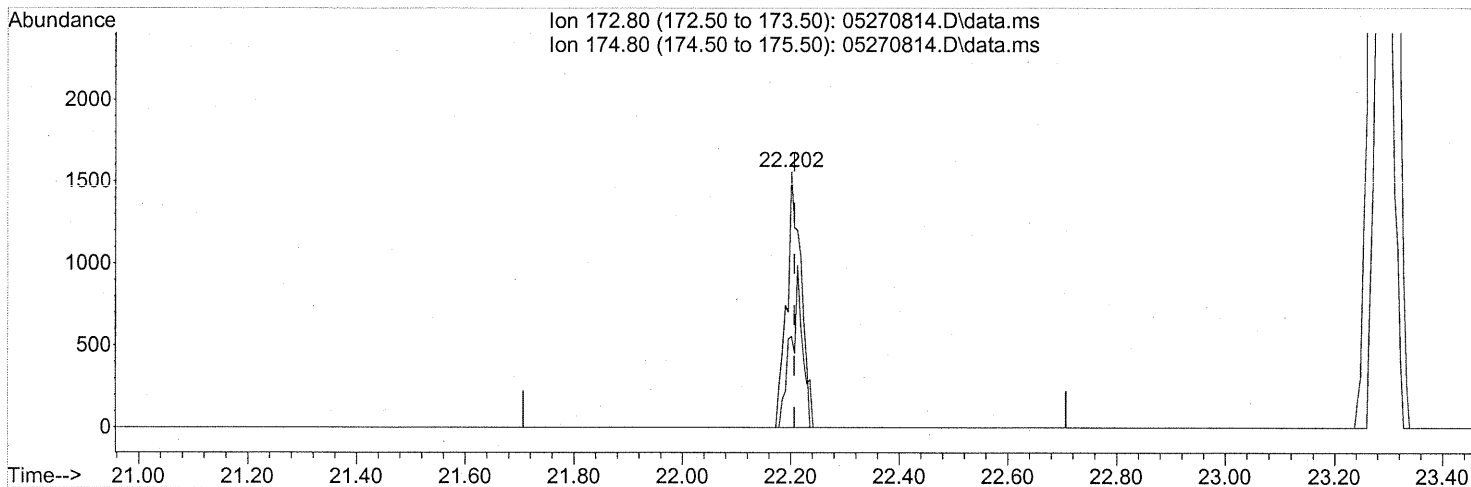
response 72283

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	49.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 18:54
Operator : WA
Sample : P0801483-014 (150ml)
Misc : ENSR SG82B-05 (-3.7, 3.7)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270814.D\data.ms

(68) Bromoform (T)

22.202min (-0.006) 0.11ng

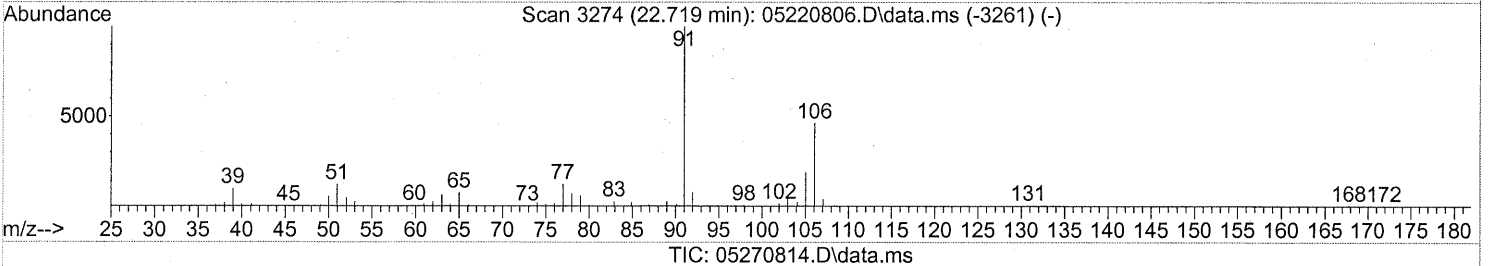
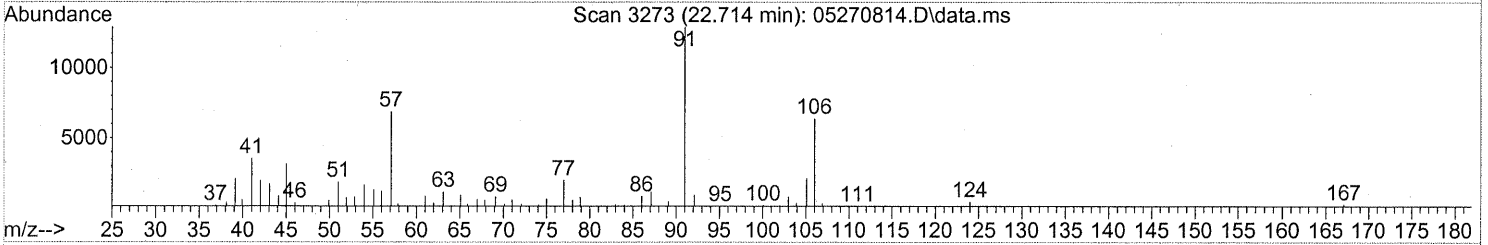
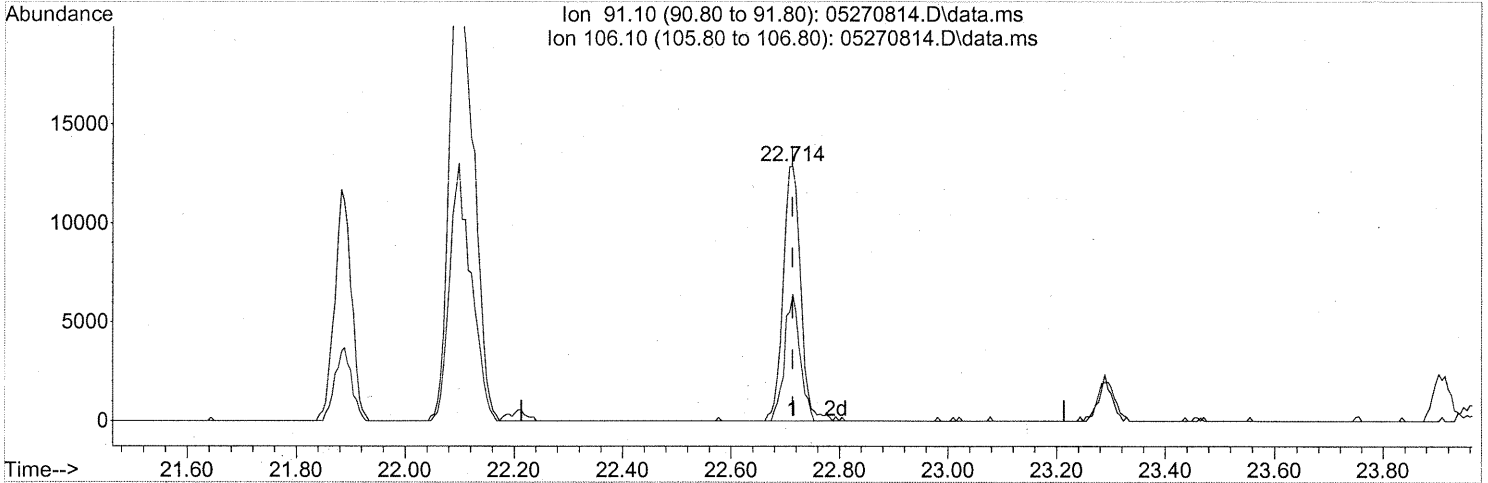
response 2801

Ion	Exp%	Act%
172.80	100	100
174.80	49.40	54.80
0.00	0.00	0.00
0.00	0.00	0.00

670

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

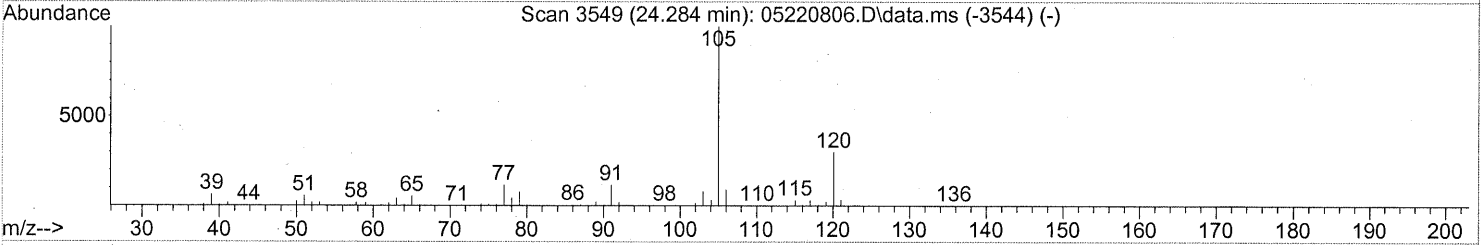
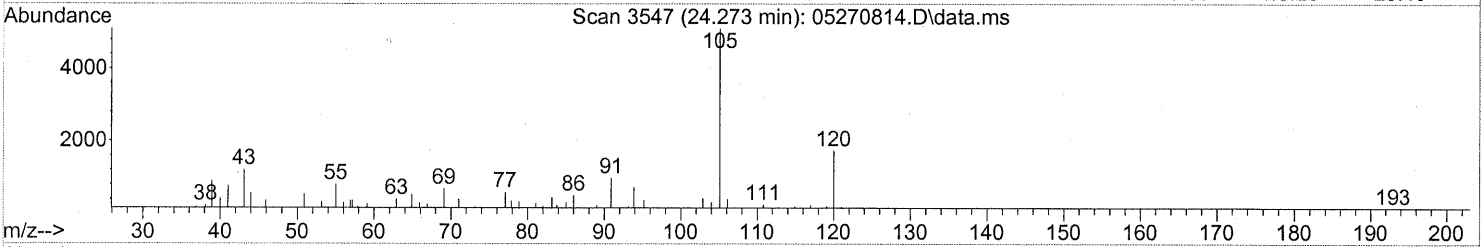
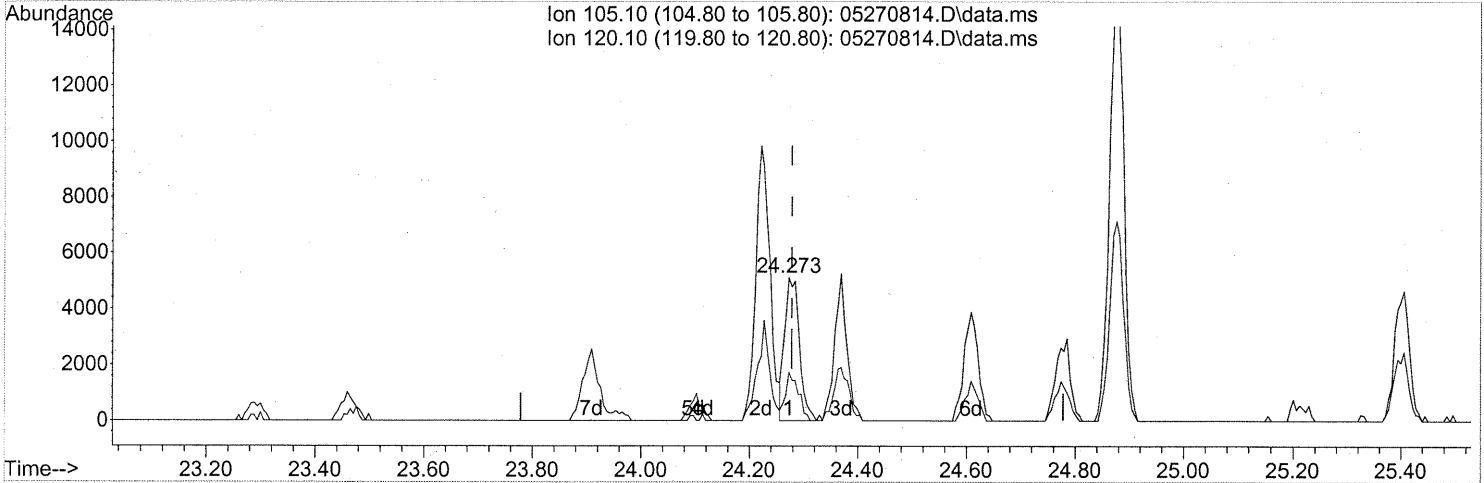


(70) o-Xylene (T)
 22.714min (+0.000) 0.28ng
 response 28794

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	44.07
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

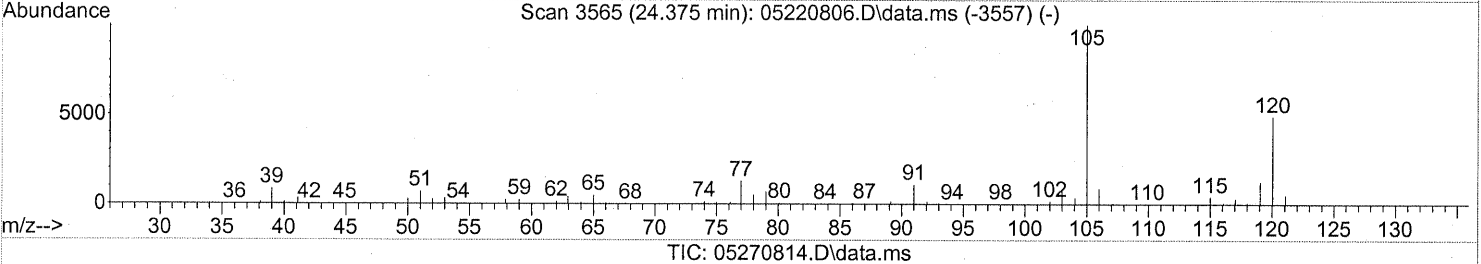
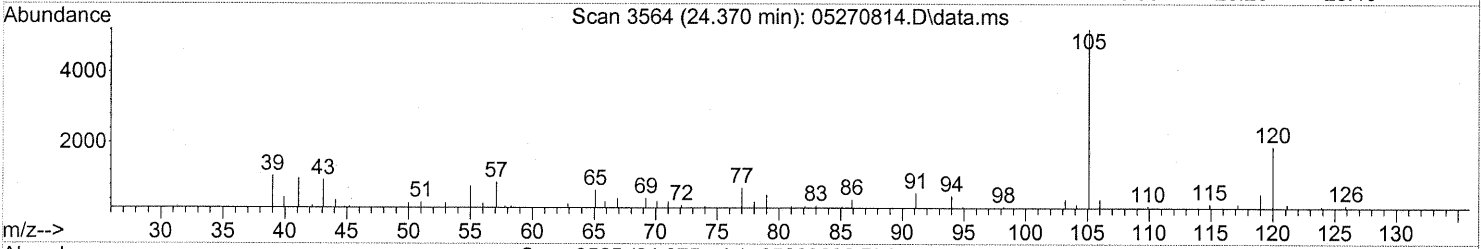
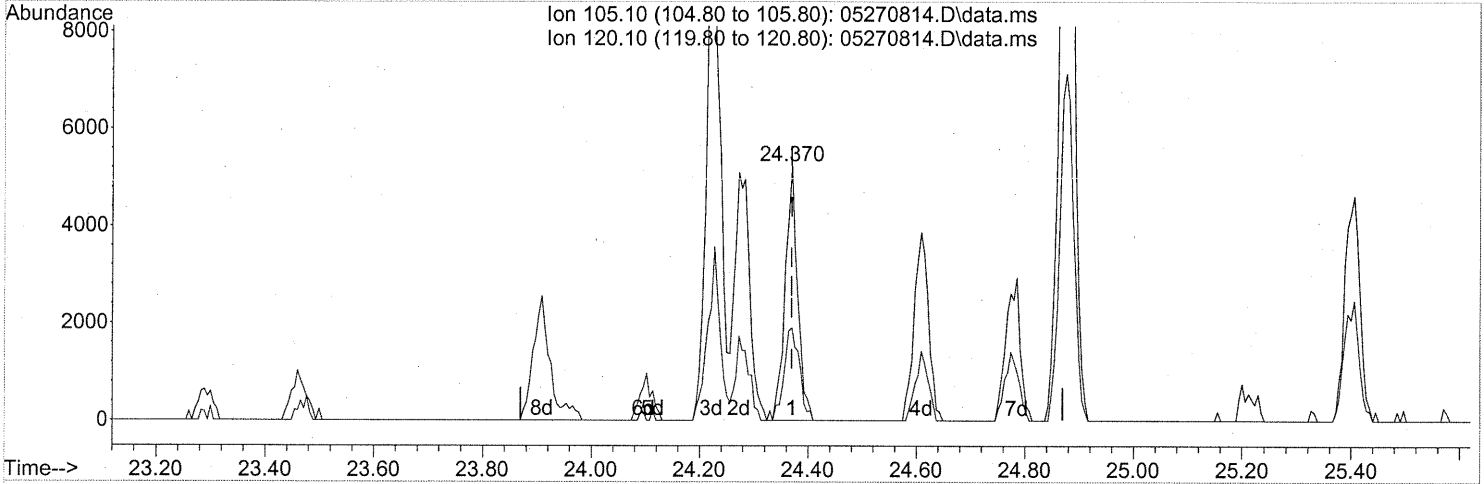
(78) 4-Ethyltoluene (T)
 24.273min (-0.006) 0.07ng
 response 9620

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.370min (+0.000) 0.07ng

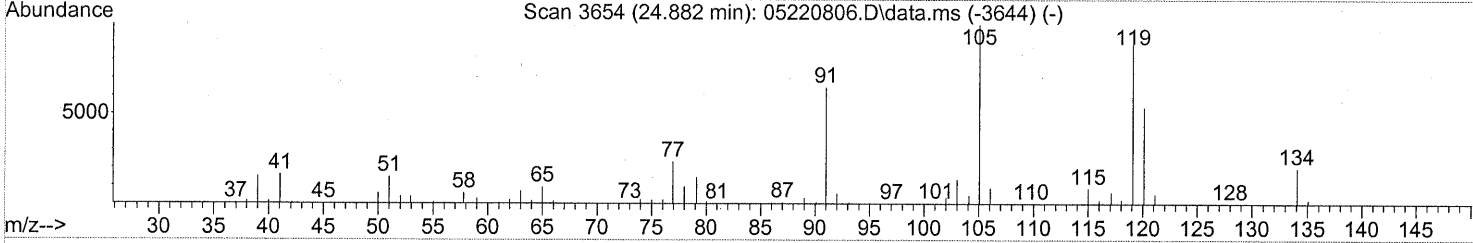
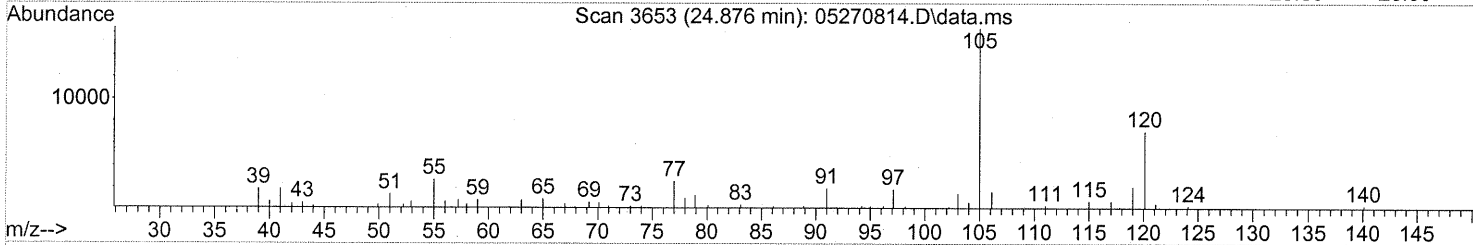
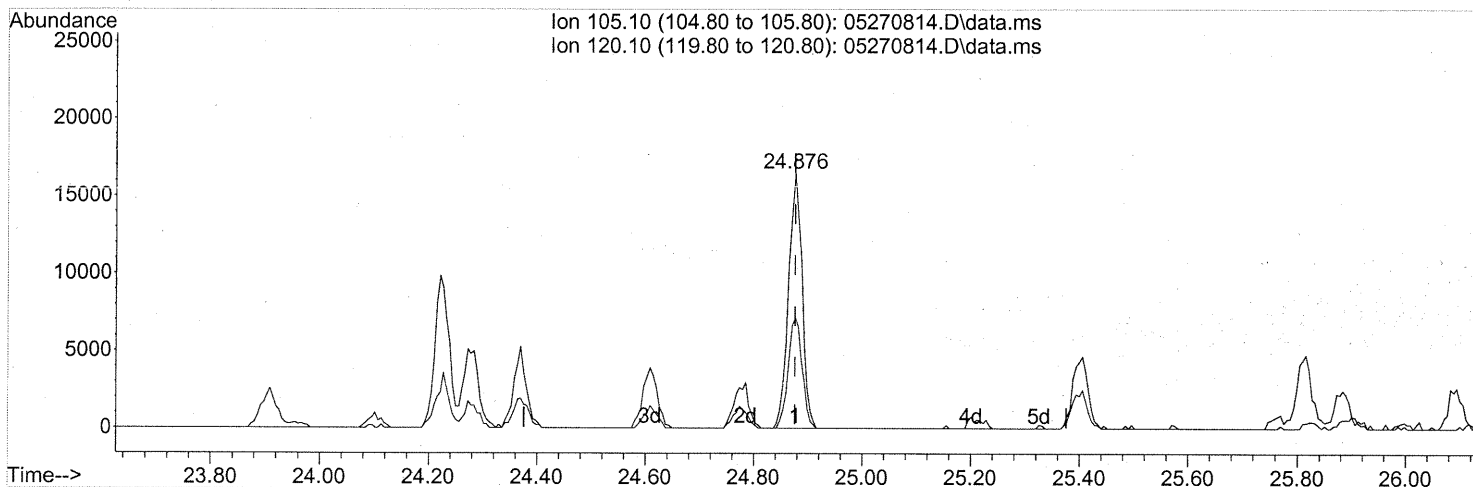
response 8328

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	44.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(82) 1,2,4-Trimethylbenzene (T)

24.876min (+0.000) 0.23ng

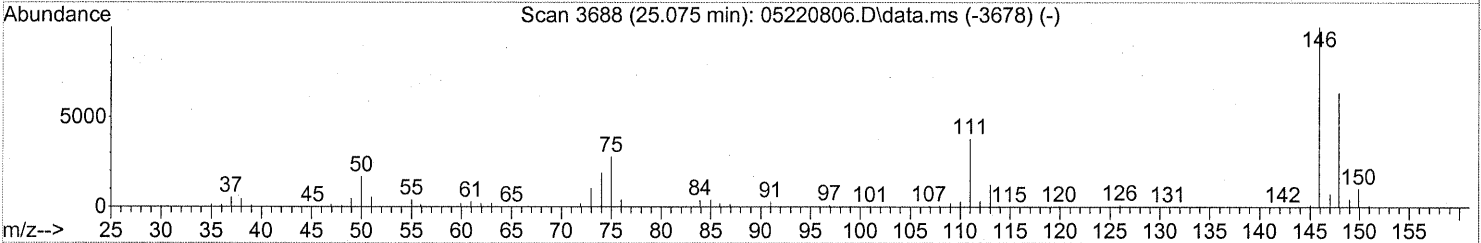
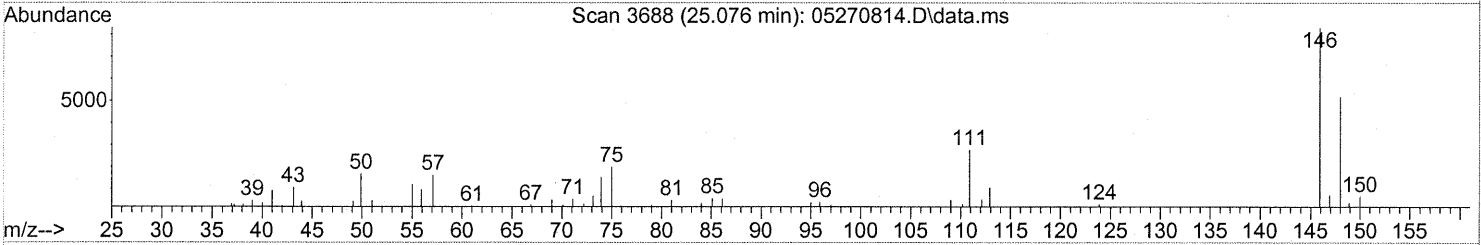
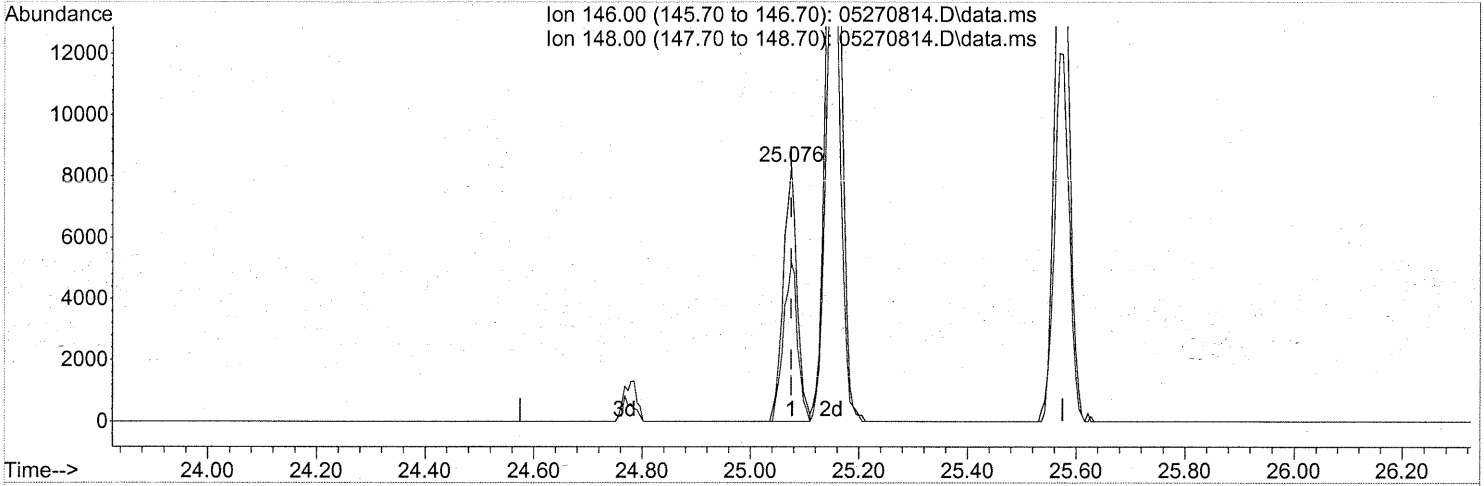
response 28772

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	44.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.076min (+0.000) 0.19ng

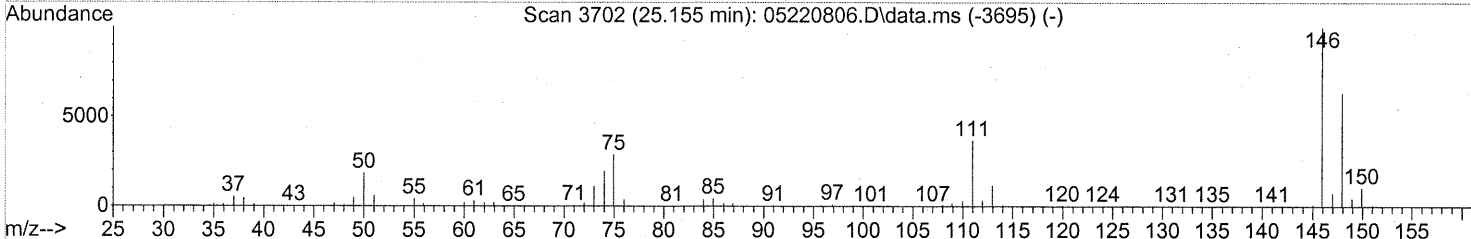
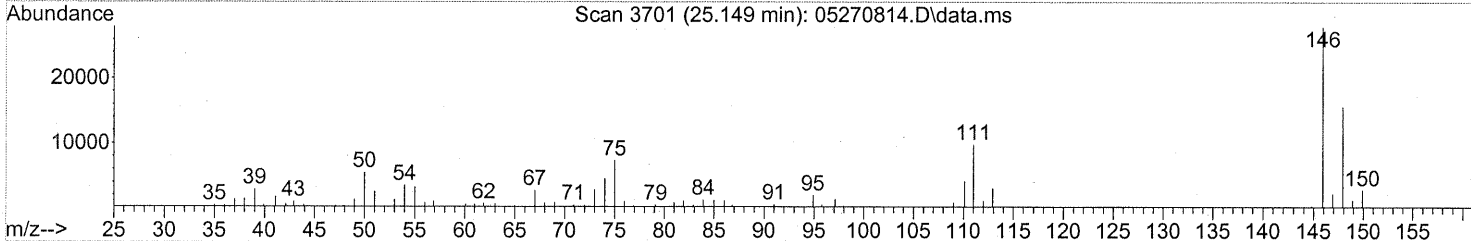
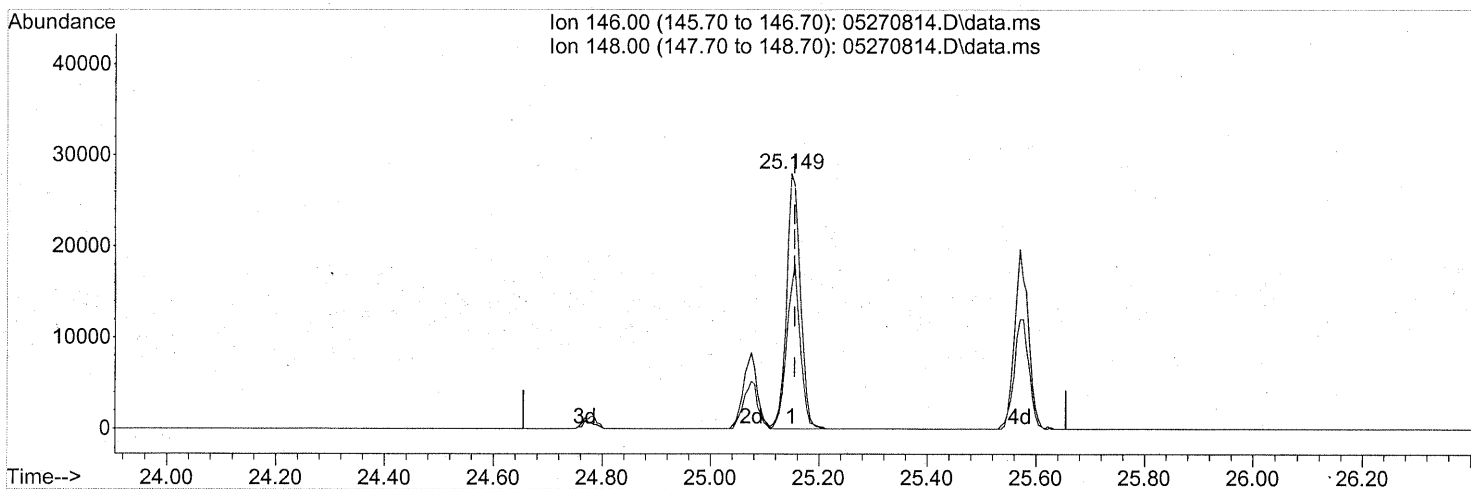
response 14575

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	63.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 0.65ng

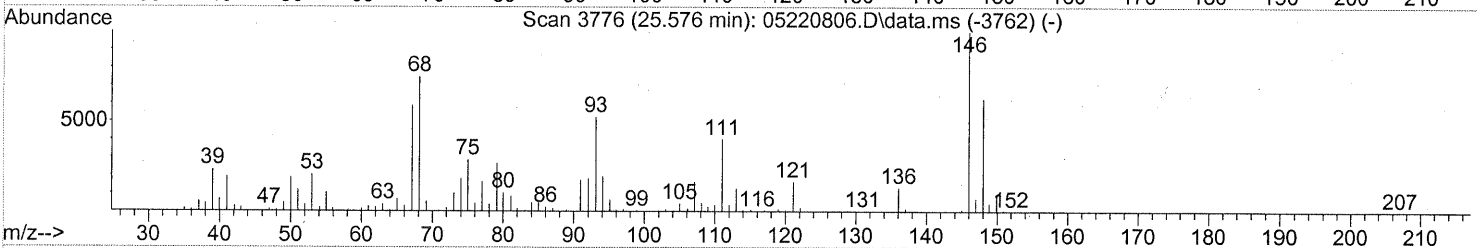
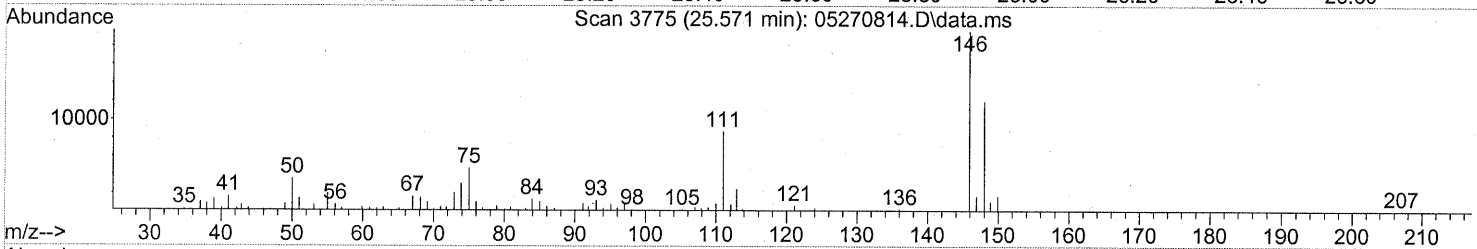
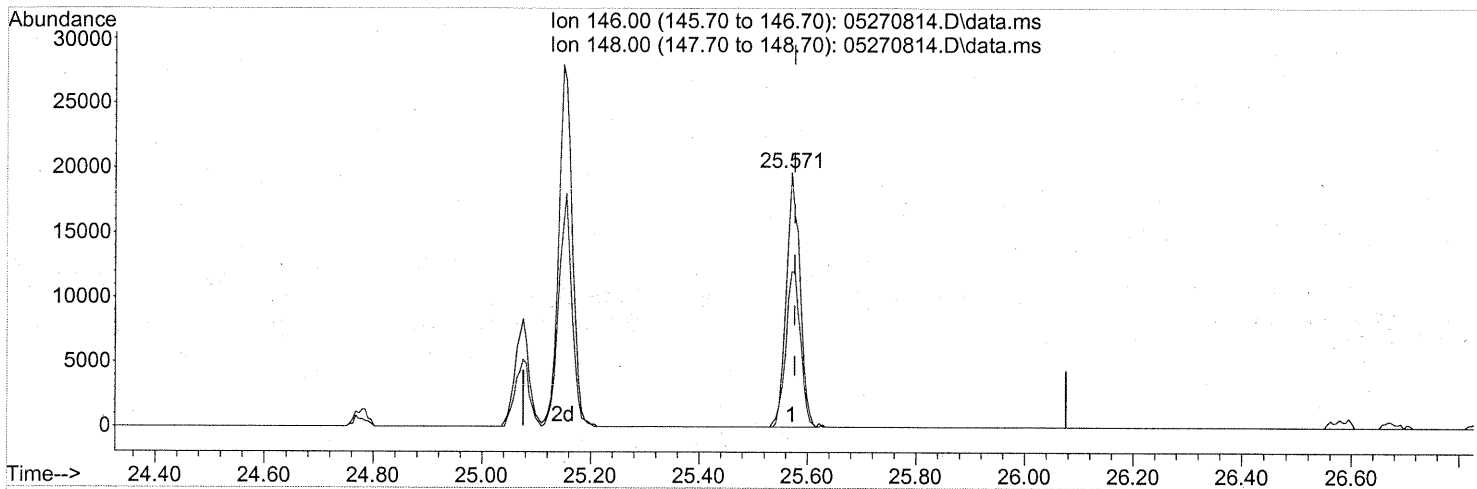
response 48994

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	62.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270814.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.571min (-0.006) 0.46ng

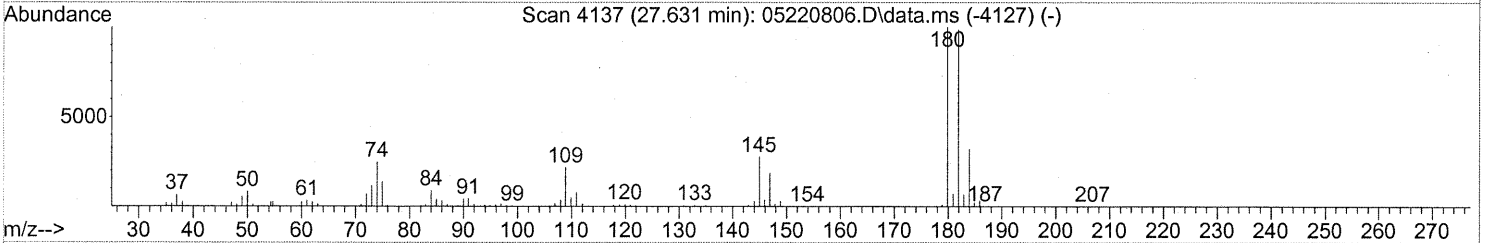
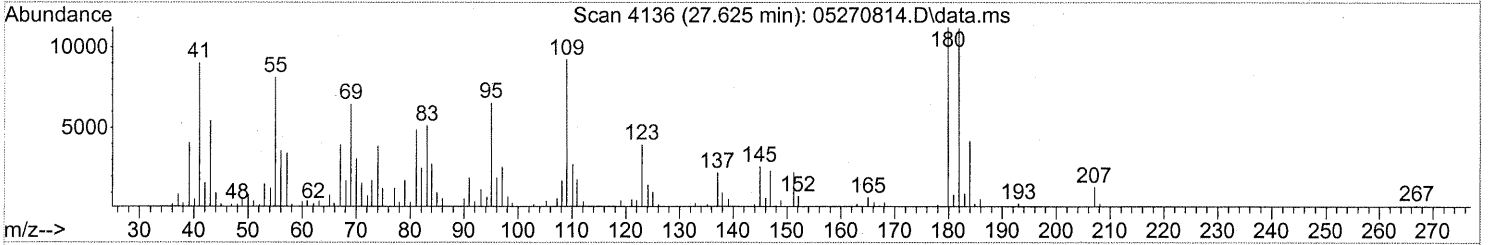
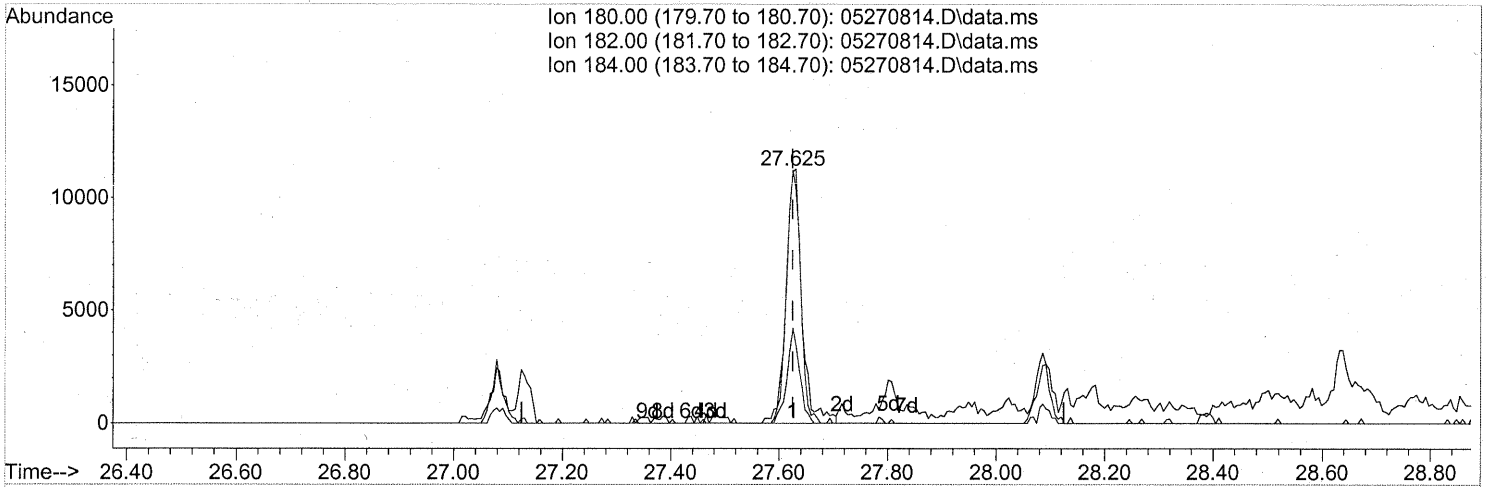
response 34294

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	65.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(94) 1,2,4-Trichlorobenzene (T)

27.625min (+0.000) 0.42ng

response 22679

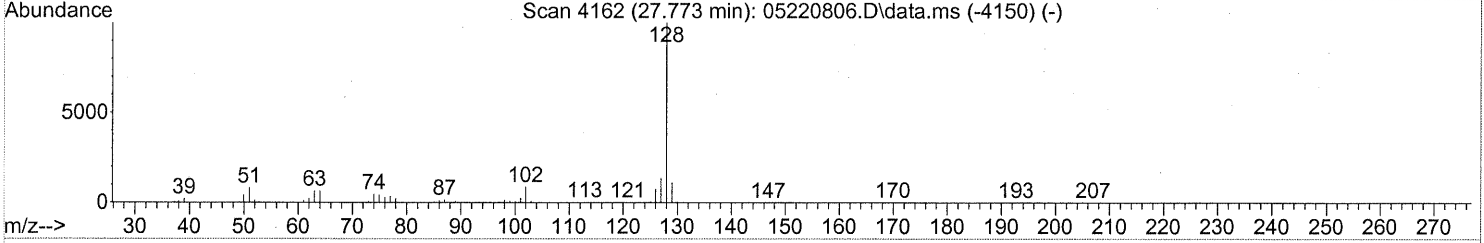
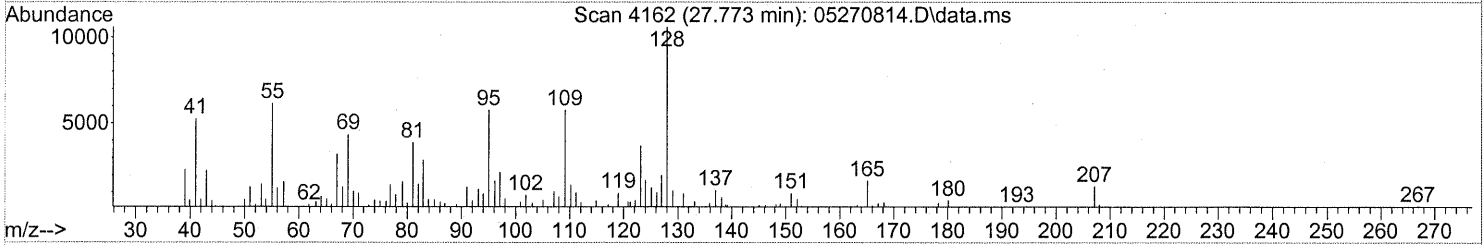
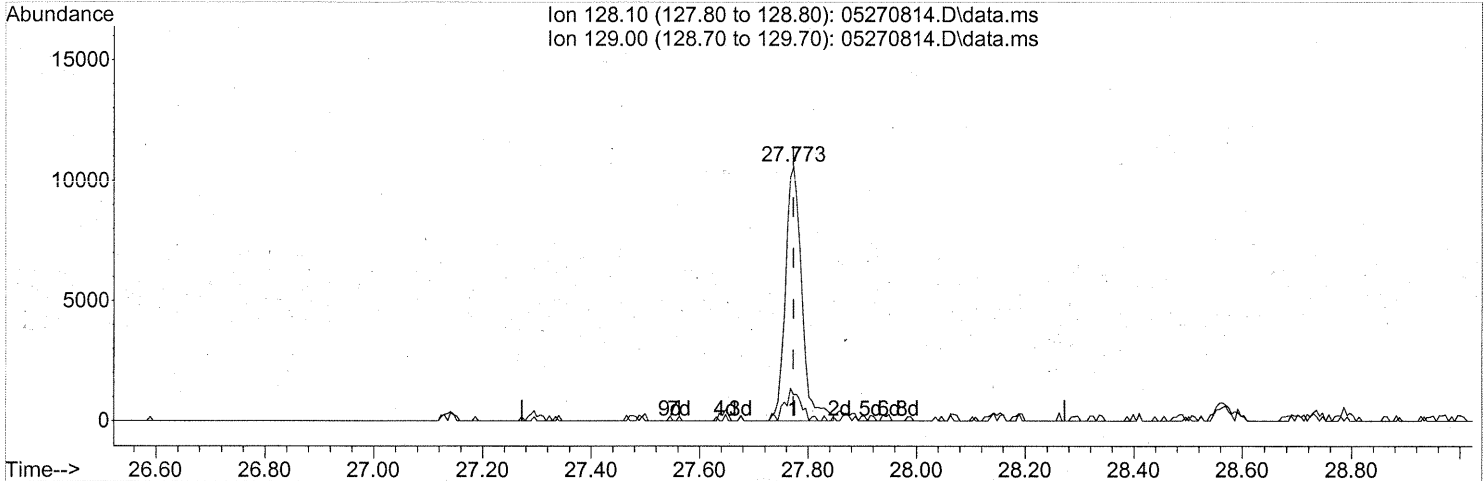
Ion	Exp%	Act%
180.00	100	100
182.00	95.20	90.33
184.00	30.30	29.80
0.00	0.00	0.00

678

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 18:54
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



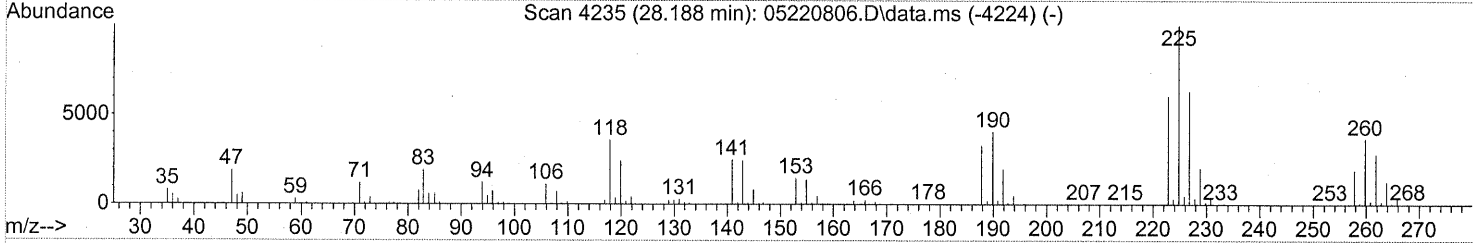
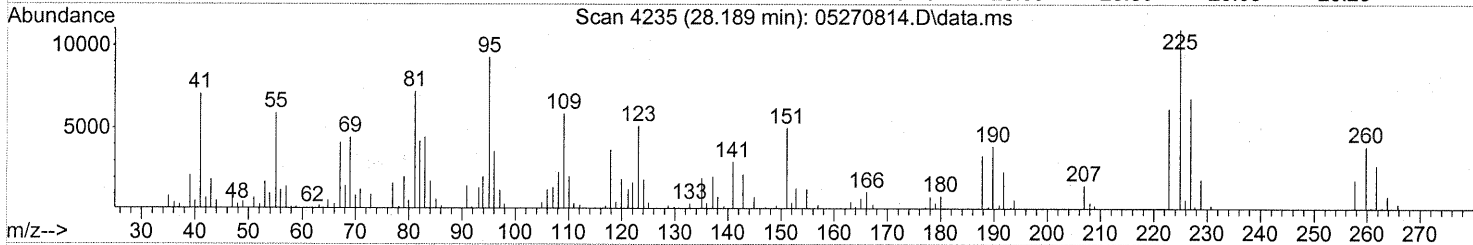
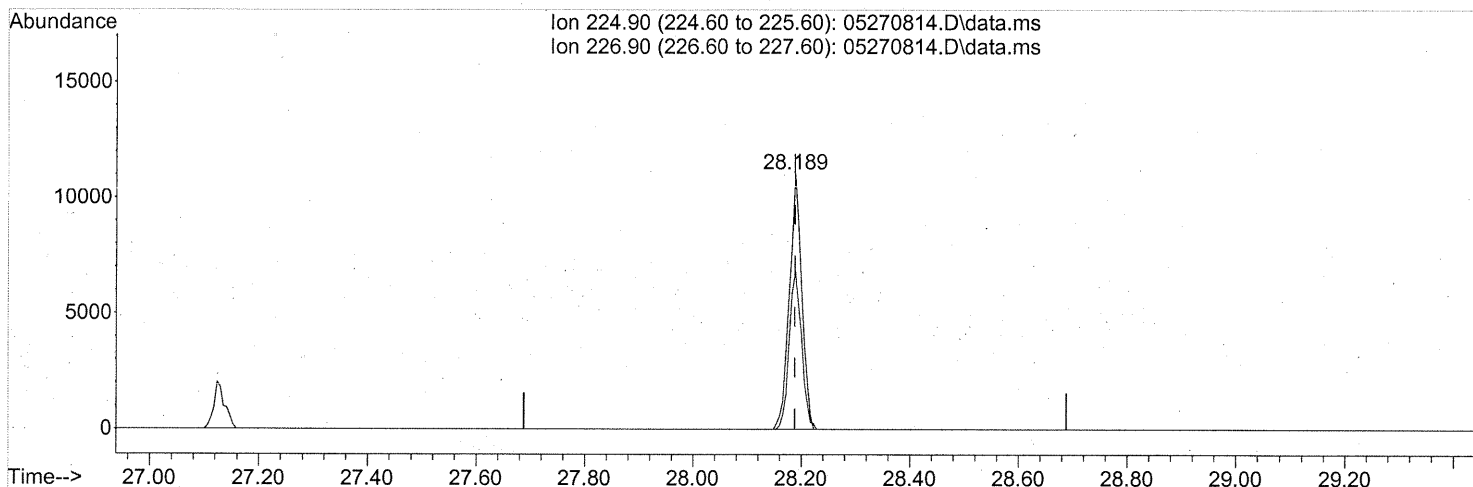
(95) Naphthalene (T)
 27.773min (+0.000) 0.13ng
 response 22239

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	12.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 18:54
Operator : WA
Sample : P0801483-014 (150ml)
Misc : ENSR SG82B-05 (-3.7, 3.7)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:37 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270814.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

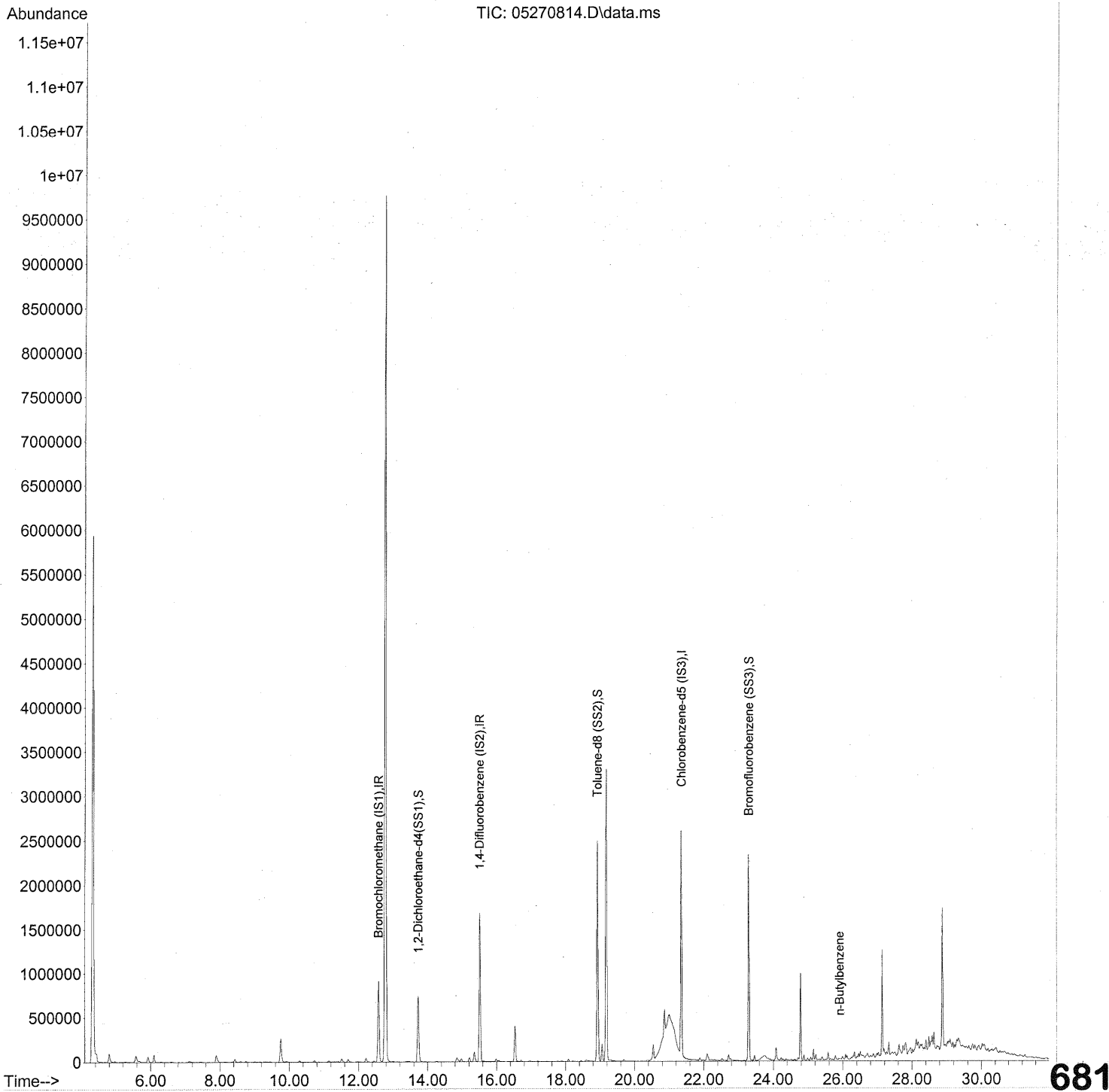
28.189min (+0.000) 0.49ng

response 17562

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	61.62
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 6:54 pm
Operator : WA
Sample : P0801483-014 (150ml)
Misc : ENSR SG82B-05 (-3.7, 3.7)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 31 13:12:49 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270814.D
 Acq On : 27 May 2008 6:54 pm
 Operator : WA
 Sample : P0801483-014 (150ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

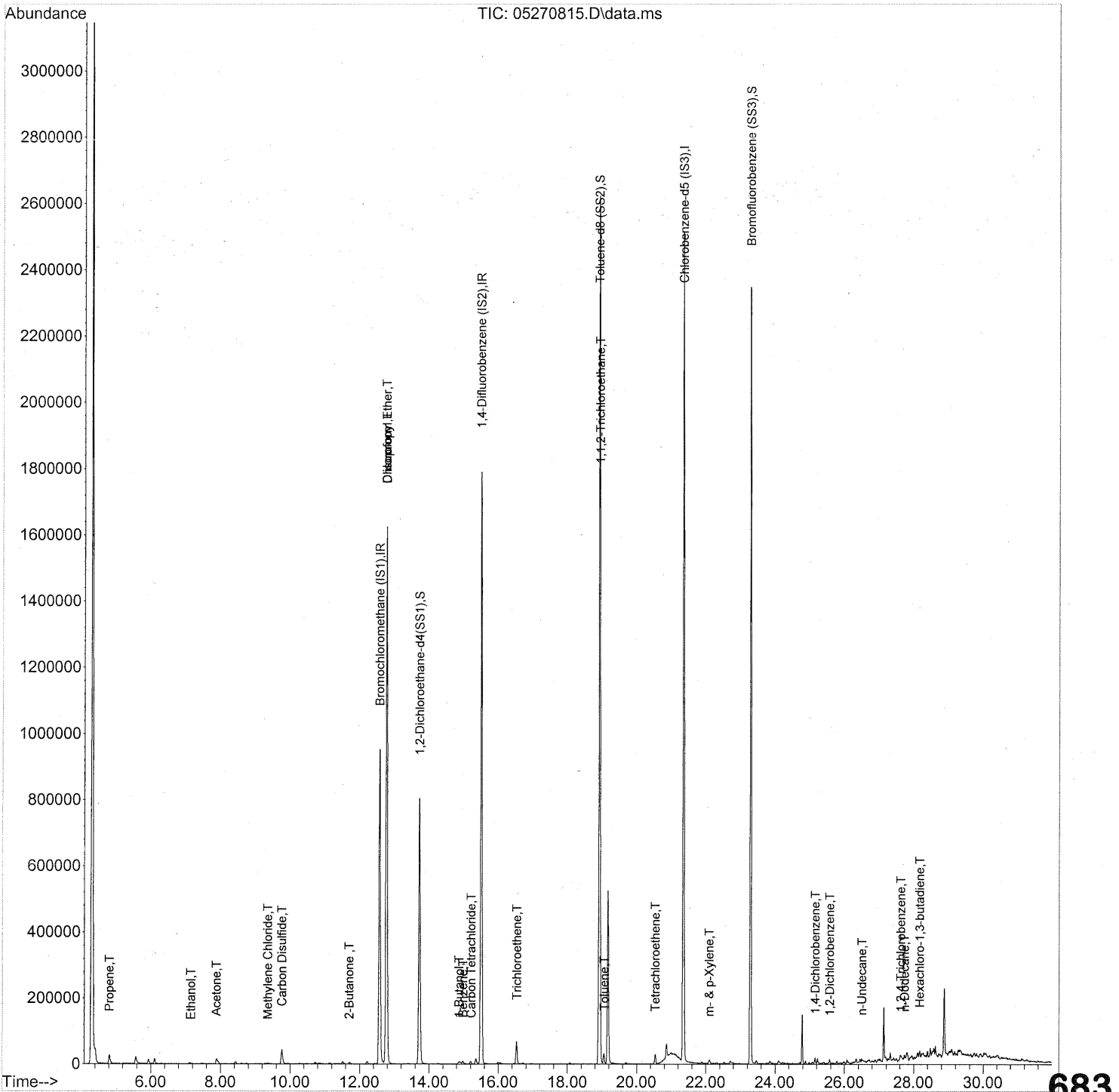
Quant Time: May 31 13:12:49 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	458314	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1954879	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1018129	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	750786	23.642	ng	-0.03
Spiked Amount	25.000		Recovery	=	94.56%	
5) Toluene-d8 (SS2)	18.92	98	2065383	22.588	ng	-0.02
Spiked Amount	25.000		Recovery	=	90.36%	
6) Bromofluorobenzene (SS3)	23.29	174	887615	23.871	ng	0.00
Spiked Amount	25.000		Recovery	=	95.48%	
Target Compounds						
7) tert-Butylbenzene	25.31	119	1540	N.D.		Qvalue
8) n-Butylbenzene	25.91	91	5563	0.042 ng	#	51

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

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 19:35
Operator : WA
Sample : P0801483-014 Dil (25ml)
Misc : ENSR SG82B-05 (-3.7, 3.7)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:45 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270815.D
 Acq On : 27 May 2008 19:35
 Operator : WA
 Sample : P0801483-014 Dil (25ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	493378	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2089356	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	981540	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	822496	24.059	ng	0.00
Spiked Amount	25.000		Recovery	=	96.24%	
57) Toluene-d8 (SS2)	18.92	98	2192687	24.874	ng	0.00
Spiked Amount	25.000		Recovery	=	99.48%	
73) Bromofluorobenzene (SS3)	23.29	174	889204	24.806	ng	0.00
Spiked Amount	25.000		Recovery	=	99.24%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.82	42	6148	0.158	ng	# 68
3) Dichlorodifluoromethane	4.97	85	2452	N.D.		
4) Chloromethane	5.29	50	691	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.51	94	57	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.15	45	2534	0.098	ng	# 43
11) Acetonitrile	7.44	41	796	N.D.		
12) Acrolein	7.68	56	660	N.D.		
13) Acetone	7.88	58	11209	0.422	ng	97
14) Trichlorofluoromethane	8.15	101	957	N.D.		
15) Isopropanol	8.34	45	1948	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.16	96	285	N.D.		
18) tert-Butanol	9.30	59	1753	N.D.		
19) Methylene Chloride	9.36	84	1561	0.053	ng	# 78
20) Allyl Chloride	9.44	41	343	N.D.		
21) Trichlorotrifluoroethane	9.81	151	64	N.D.		
22) Carbon Disulfide	9.77	76	94128	0.836	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.24	73	158	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.70	72	1955	0.101	ng	# 92
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	175245	7.378	ng	# 1
30) Ethyl Acetate	12.79	61	66	N.D.		
31) n-Hexane	12.70	57	593	N.D.		

684

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270815.D
 Acq On : 27 May 2008 19:35
 Operator : WA
 Sample : P0801483-014 Dil (25ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	1718917	38.207	ng	98
34) Tetrahydrofuran	13.40	72	194	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.72	62	147	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.87	56	8475	0.295	ng	88
41) Benzene	14.99	78	8703	0.080	ng	98
42) Carbon Tetrachloride	15.22	117	5737	0.136	ng	99
43) Cyclohexane	15.41	84	63	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.46	83	207	N.D.		
47) Trichloroethene	16.54	130	30461	0.908	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	543	N.D.		
50) Methyl Methacrylate	16.71	100	445	N.D.		
51) n-Heptane	16.99	71	53	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	191087	7.068	ng	# 8
58) Toluene	19.07	91	29716	0.248	ng	99
59) 2-Hexanone	19.40	43	574	N.D.		
60) Dibromochloromethane	19.61	129	60	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.12	43	52	N.D.		
63) n-Octane	20.37	57	122	N.D.		
64) Tetrachloroethene	20.55	166	11364	0.321	ng	97
65) Chlorobenzene	21.40	112	1254	N.D.		
66) Ethylbenzene	21.89	91	4271	N.D.		
67) m- & p-Xylene	22.10	91	11487	0.125	ng	98
68) Bromoform	22.21	173	306	N.D.		
69) Styrene	22.58	104	56	N.D.		
70) o-Xylene	22.71	91	4887	N.D.		
71) n-Nonane	22.98	43	529	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.76	83	51	N.D.		
74) Cumene	23.47	105	85	N.D.		
75) alpha-Pinene	23.95	93	354	N.D.		
76) n-Propylbenzene	24.09	91	1303	N.D.		
77) 3-Ethyltoluene	24.22	105	2848	N.D.		
78) 4-Ethyltoluene	24.28	105	1503	N.D.		
79) 1,3,5-Trimethylbenzene	24.38	105	1472	N.D.		

685

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270815.D
 Acq On : 27 May 2008 19:35
 Operator : WA
 Sample : P0801483-014 Dil (25ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

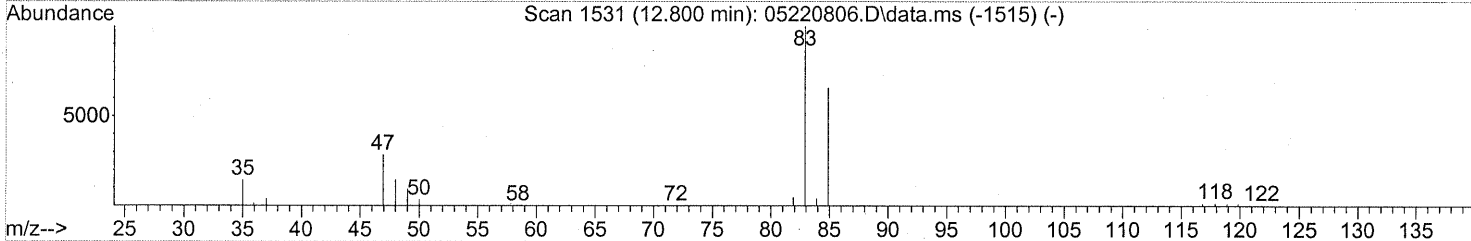
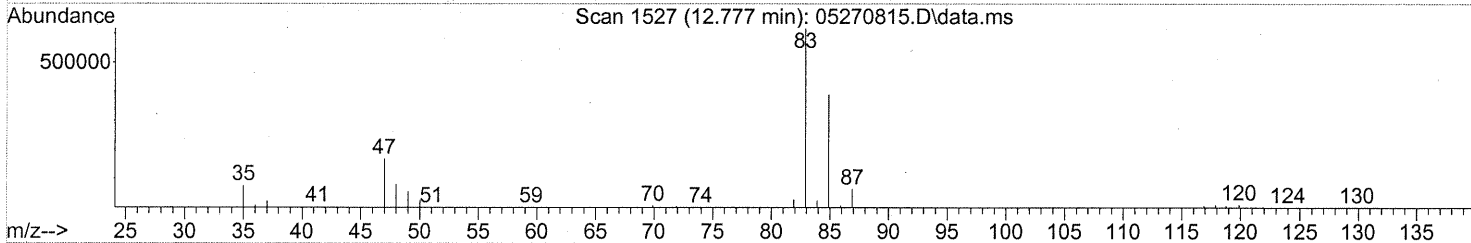
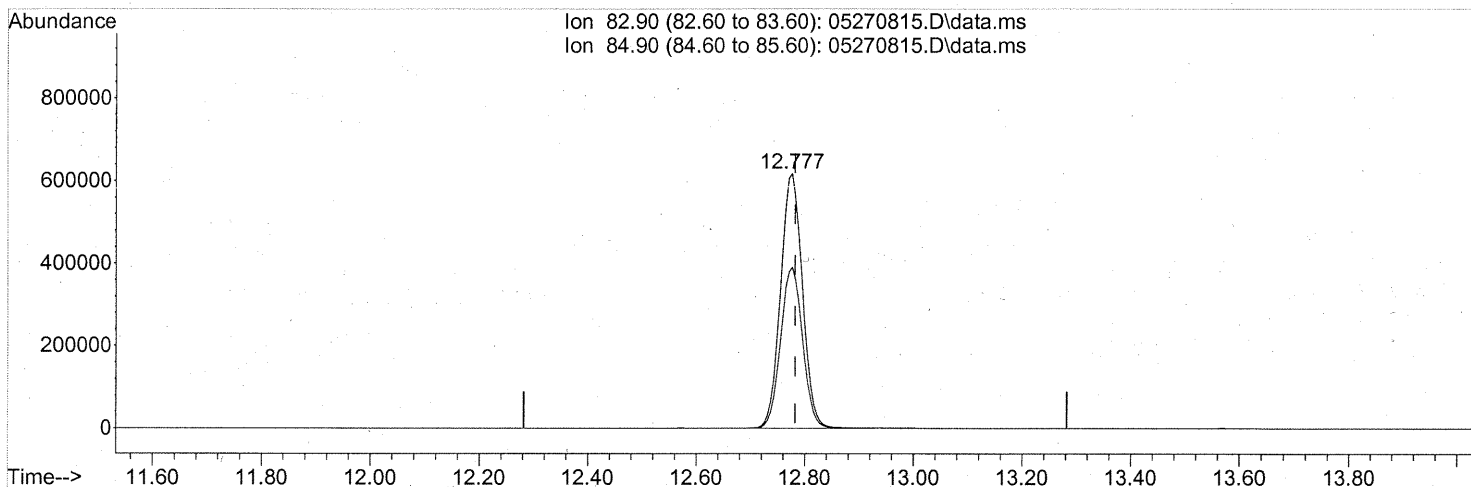
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.77	118	1922	N.D.		
81) 2-Ethyltoluene	24.60	105	1265	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	4366	N.D.		
83) n-Decane	24.98	57	1591	N.D.		
84) Benzyl Chloride	25.06	91	57	N.D.		
85) 1,3-Dichlorobenzene	25.07	146	2295	N.D.		
86) 1,4-Dichlorobenzene	25.16	146	6947	0.095	ng	91
87) sec-Butylbenzene	25.40	105	1308	N.D.		
88) p-Isopropyltoluene	25.40	119	1335	N.D.		
89) 1,2,3-Trimethylbenzene	25.40	105	1308	N.D.		
90) 1,2-Dichlorobenzene	25.58	146	5684	0.079	ng	97
91) d-Limonene	25.56	68	306	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.50	57	4518	0.065	ng	# 42
94) 1,2,4-Trichlorobenzene	27.63	180	3289	0.063	ng	91
95) Naphthalene	27.78	128	4706	N.D.		
96) n-Dodecane	27.74	57	4789	0.069	ng	78
97) Hexachloro-1,3-butadiene	28.18	225	2985	0.086	ng	94

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270815.D
 Acq On : 27 May 2008 19:35
 Operator : WA
 Sample : P0801483-014 Dil (25ml)
 Misc : ENSR SG82B-05 (-3.7, 3.7)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 04:12:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270815.D\data.ms

(32) Chloroform (T)

12.777min (-0.006) 38.21ng

response 1718917

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.46
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG61B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-015

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00762

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/26 - 5/27/08
 Volume(s) Analyzed: 0.0050 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	160	16	ND	33	3.3	
74-87-3	Chloromethane	ND	33	16	ND	16	7.9	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	160	16	ND	23	2.3	
75-01-4	Vinyl Chloride	ND	33	16	ND	13	6.4	
74-83-9	Bromomethane	ND	33	16	ND	8.4	4.2	
75-00-3	Chloroethane	ND	33	16	ND	12	6.2	
64-17-5	Ethanol	20	1,600	16	11	870	8.7	J
67-64-1	Acetone	59	1,600	24	25	690	10	J, B
75-69-4	Trichlorofluoromethane	1,700	33	16	300	5.8	2.9	
107-13-1	Acrylonitrile	ND	160	23	ND	75	11	
75-35-4	1,1-Dichloroethene	ND	33	16	ND	8.2	4.1	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	160	24	ND	54	8.0	
75-09-2	Methylene Chloride	22	160	16	6.5	47	4.7	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	33	16	ND	10	5.2	
76-13-1	Trichlorotrifluoroethane	ND	33	18	ND	4.3	2.4	
75-15-0	Carbon Disulfide	ND	160	39	ND	52	13	
156-60-5	trans-1,2-Dichloroethene	ND	33	16	ND	8.2	4.1	
75-34-3	1,1-Dichloroethane	ND	33	16	ND	8.1	4.0	
1634-04-4	Methyl tert-Butyl Ether	ND	33	16	ND	9.0	4.5	
108-05-4	Vinyl Acetate	ND	1,600	52	ND	460	15	
78-93-3	2-Butanone (MEK)	ND	160	16	ND	55	5.5	
156-59-2	cis-1,2-Dichloroethene	ND	33	16	ND	8.2	4.1	
108-20-3	Diisopropyl Ether	ND	160	19	ND	39	4.6	
67-66-3	Chloroform	93,000	33	19	19,000	6.7	3.9	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG61B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-015

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00762

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/26 - 5/27/08
 Volume(s) Analyzed: 0.0050 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	160	17	ND	39	4.0	
107-06-2	1,2-Dichloroethane	ND	33	16	ND	8.1	4.0	
71-55-6	1,1,1-Trichloroethane	ND	33	16	ND	6.0	3.0	
71-43-2	Benzene	ND	33	16	ND	10	5.1	
56-23-5	Carbon Tetrachloride	17,000	33	16	2,700	5.2	2.6	
994-05-8	tert-Amyl Methyl Ether	ND	160	16	ND	39	3.9	
78-87-5	1,2-Dichloropropane	ND	33	16	ND	7.1	3.5	
75-27-4	Bromodichloromethane	ND	33	16	ND	4.9	2.4	
79-01-6	Trichloroethene	21	33	16	3.8	6.1	3.0	J
123-91-1	1,4-Dioxane	ND	160	20	ND	45	5.5	
80-62-6	Methyl Methacrylate	ND	160	24	ND	40	6.0	
142-82-5	n-Heptane	ND	160	21	ND	40	5.1	
10061-01-5	cis-1,3-Dichloropropene	ND	160	17	ND	36	3.7	
108-10-1	4-Methyl-2-pentanone	ND	160	18	ND	40	4.5	
10061-02-6	trans-1,3-Dichloropropene	ND	160	21	ND	36	4.5	
79-00-5	1,1,2-Trichloroethane	ND	33	16	ND	6.0	3.0	
108-88-3	Toluene	ND	160	16	ND	43	4.3	
591-78-6	2-Hexanone	ND	160	25	ND	40	6.1	
124-48-1	Dibromochloromethane	ND	33	22	ND	3.8	2.6	
106-93-4	1,2-Dibromoethane	ND	33	18	ND	4.2	2.3	
111-65-9	n-Octane	ND	160	16	ND	35	3.5	
127-18-4	Tetrachloroethene	280	33	16	41	4.8	2.4	
108-90-7	Chlorobenzene	ND	33	17	ND	7.1	3.6	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG61B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-015

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00762

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/26 - 5/27/08
 Volume(s) Analyzed: 0.0050 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	160	20	ND	38	4.7	
179601-23-1	m,p-Xylenes	ND	160	42	ND	38	9.8	
75-25-2	Bromoform	ND	160	25	ND	16	2.4	
100-42-5	Styrene	ND	160	25	ND	38	5.8	
95-47-6	o-Xylene	ND	160	21	ND	38	4.7	
79-34-5	1,1,2,2-Tetrachloroethane	ND	33	21	ND	4.7	3.0	
98-82-8	Cumene	ND	160	18	ND	33	3.7	
103-65-1	n-Propylbenzene	ND	160	17	ND	33	3.4	
622-96-8	4-Ethyltoluene	ND	160	19	ND	33	3.8	
108-67-8	1,3,5-Trimethylbenzene	ND	160	20	ND	33	4.0	
98-83-9	alpha-Methylstyrene	ND	160	24	ND	34	4.9	
95-63-6	1,2,4-Trimethylbenzene	ND	160	22	ND	33	4.6	
100-44-7	Benzyl Chloride	ND	33	28	ND	6.3	5.4	
541-73-1	1,3-Dichlorobenzene	ND	33	20	ND	5.4	3.4	
106-46-7	1,4-Dichlorobenzene	ND	33	18	ND	5.4	3.0	
135-98-8	sec-Butylbenzene	ND	160	19	ND	30	3.4	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	160	21	ND	30	3.9	
95-50-1	1,2-Dichlorobenzene	ND	33	22	ND	5.4	3.6	
96-12-8	1,2-Dibromo-3-chloropropane	ND	160	25	ND	17	2.6	
120-82-1	1,2,4-Trichlorobenzene	ND	33	25	ND	4.4	3.3	
91-20-3	Naphthalene	ND	65	24	ND	12	4.6	
87-68-3	Hexachlorobutadiene	ND	33	29	ND	3.1	2.8	
98-06-6	tert-Butylbenzene	ND	65	16	ND	12	3.0	
104-51-8	n-Butylbenzene	ND	65	16	ND	12	3.0	

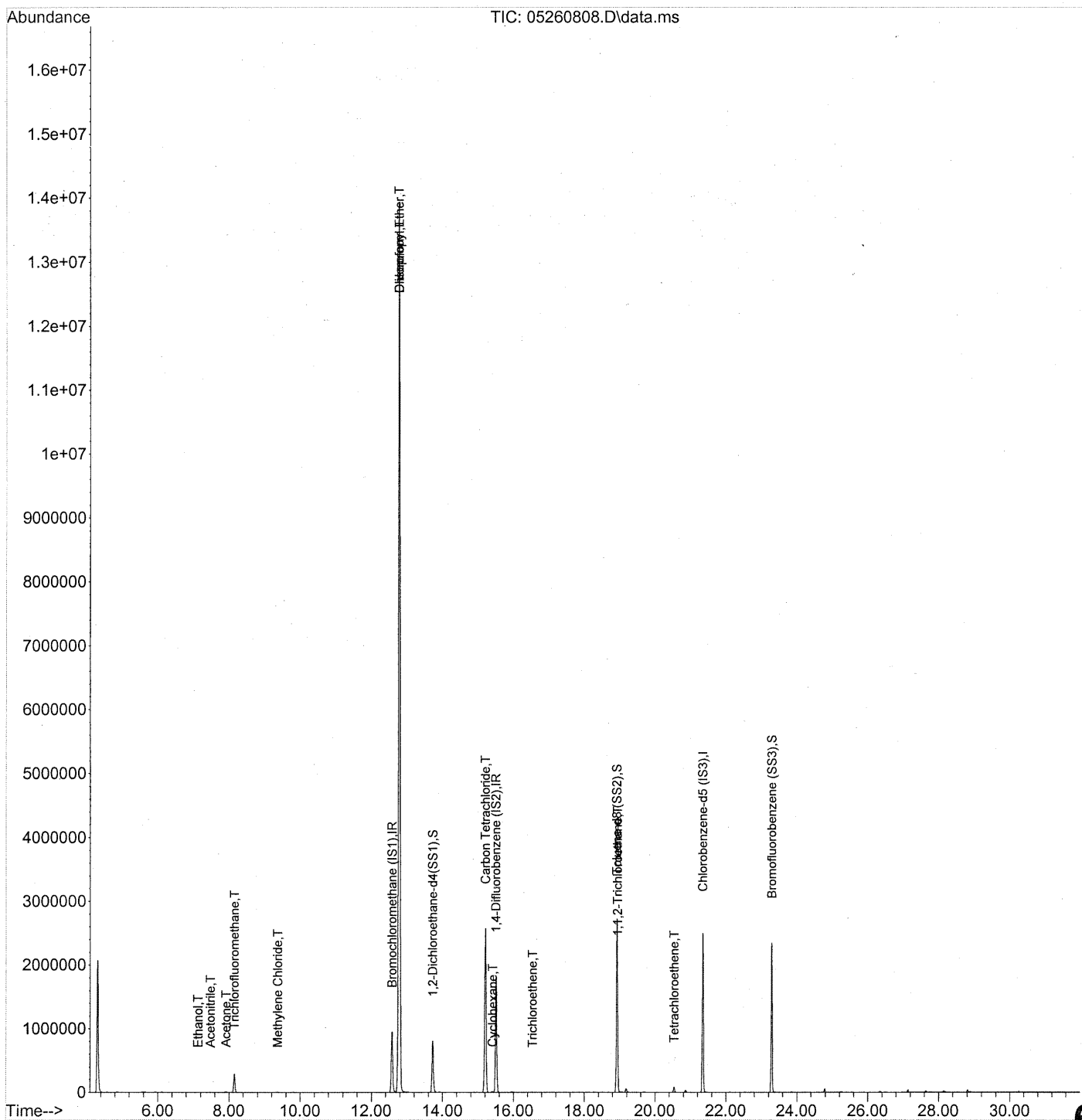
ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CA Date: 6/4/08

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260808.D
Acq On : 26 May 2008 16:33
Operator : WA
Sample : P0801483-015 (5.0ml)
Misc : ENSR SG61B-05 (-3.5, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 11:43:30 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260808.D
 Acq On : 26 May 2008 16:33
 Operator : WA
 Sample : P0801483-015 (5.0ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 11:43:30 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	494589	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2116782	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	982080	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	826272	24.111	ng	0.00
Spiked Amount	25.000		Recovery	=	96.44%	✓
57) Toluene-d8 (SS2)	18.92	98	2247943	25.487	ng	0.00
Spiked Amount	25.000		Recovery	=	101.96%	✓
73) Bromofluorobenzene (SS3)	23.29	174	895112	24.957	ng	0.00
Spiked Amount	25.000		Recovery	=	99.84%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	1903	N.D.		
3) Dichlorodifluoromethane	5.00	85	1986	N.D.✓		
4) Chloromethane	5.34	50	86	N.D.✓		
5) Freon 114	5.56	135	269	N.D.✓		
6) Vinyl Chloride	5.78	62	124	N.D.✓		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.52	94	304	N.D.✓		
9) Chloroethane	6.85	64	229	N.D.✓		
10) Ethanol	7.13	45	1597	0.061	ng	81
11) Acetonitrile	7.48	41	5197	0.069	ng	86
12) Acrolein	7.69	56	706	N.D.		
13) Acetone	7.92	58	4852m	0.182	ng	
14) Trichlorofluoromethane	8.15	101	319607	5.174	ng	100
15) Isopropanol	8.36	45	666	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.✓		
17) 1,1-Dichloroethene	9.16	96	89	N.D.✓		
18) tert-Butanol	9.33	59	485	N.D.✓		
19) Methylene Chloride	9.37	84	2052	0.069	ng	# 79
20) Allyl Chloride	9.54	41	51	N.D.✓		
21) Trichlorotrifluoroethane	9.82	151	195	N.D.✓		
22) Carbon Disulfide	9.78	76	5545	N.D.✓		
23) trans-1,2-Dichloroethene	10.79	61	145	N.D.✓		
24) 1,1-Dichloroethane	11.10	63	1087	N.D.✓		
25) Methyl tert-Butyl Ether	11.24	73	404	N.D.✓		
26) Vinyl Acetate	11.33	86	123	N.D.✓		
27) 2-Butanone	11.72	72	506	N.D.✓		
28) cis-1,2-Dichloroethene	12.34	61	144	N.D.✓		
29) Diisopropyl Ether	12.78	87	1665325	69.938 ng	MR #	1
30) Ethyl Acetate	12.78	61	238	N.D.		
31) n-Hexane	12.70	57	1560	N.D.		

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Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260808.D
 Acq On : 26 May 2008 16:33
 Operator : WA
 Sample : P0801483-015 (5.0ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 11:43:30 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	14736948	326.758	ng	see All 97
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	13.51	87	111	N.D.	✓	
36) 1,2-Dichloroethane	13.89	62	336	N.D.	✓	
38) 1,1,1-Trichloroethane	14.29	97	60	N.D.	✓	
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.91	56	834	N.D.		
41) Benzene	14.99	78	3933	N.D.	✓	
42) Carbon Tetrachloride	15.21	117	2211902	51.820	ng	100
43) Cyclohexane	15.41	84	5446	0.126	ng	# 83
44) tert-Amyl Methyl Ether	15.88	73	256	N.D.	✓	
45) 1,2-Dichloropropane	16.22	63	75	N.D.	✓	
46) Bromodichloromethane	16.46	83	1543	N.D.	✓	
47) Trichloroethene	16.54	130	2130	0.063	ng	100
48) 1,4-Dioxane	16.55	88	55	N.D.	✓	
49) Isooctane	16.61	57	1398	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.	✓	
51) n-Heptane	16.98	71	59	N.D.	✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.79	58	60	N.D.	✓	
54) trans-1,3-Dichloropropene	18.43	75	58	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	196365	7.170	ng NR	# 9
58) Toluene	19.06	91	5697	N.D.	✓	
59) 2-Hexanone	19.33	43	134	N.D.	✓	
60) Dibromochloromethane	19.60	129	153	N.D.	✓	
61) 1,2-Dibromoethane	19.94	107	172	N.D.	✓	
62) Butyl Acetate	20.23	43	791	N.D.	✓ NOT	
63) n-Octane	20.36	57	71	N.D.	✓	
64) Tetrachloroethene	20.54	166	30389	0.857	ng	99
65) Chlorobenzene	21.40	112	963	N.D.	✓	
66) Ethylbenzene	21.89	91	1530	N.D.	✓	
67) m- & p-Xylene	22.13	91	2583	N.D.	✓	
68) Bromoform	22.20	173	65	N.D.	✓	
69) Styrene	22.58	104	885	N.D.	✓	
70) o-Xylene	22.72	91	1720	N.D.	✓	
71) n-Nonane	22.98	43	1009	N.D.	✓	
72) 1,1,2,2-Tetrachloroethane	22.69	83	640	N.D.	✓	
74) Cumene	23.47	105	1433	N.D.	✓	
75) alpha-Pinene	23.95	93	124	N.D.		
76) n-Propylbenzene	24.10	91	1831	N.D.	✓	
77) 3-Ethyltoluene	24.22	105	2467	N.D.		
78) 4-Ethyltoluene	24.28	105	2227	N.D.	✓	
79) 1,3,5-Trimethylbenzene	24.37	105	2744	N.D.	✓	

693

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260808.D
 Acq On : 26 May 2008 16:33
 Operator : WA
 Sample : P0801483-015 (5.0ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 11:43:30 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

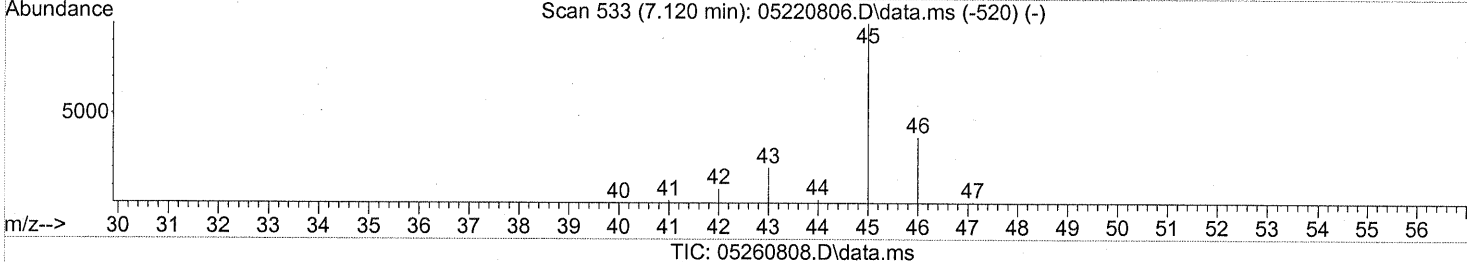
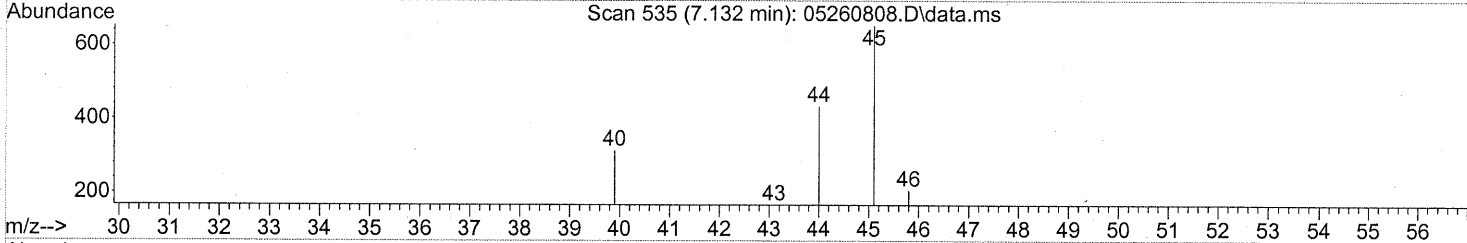
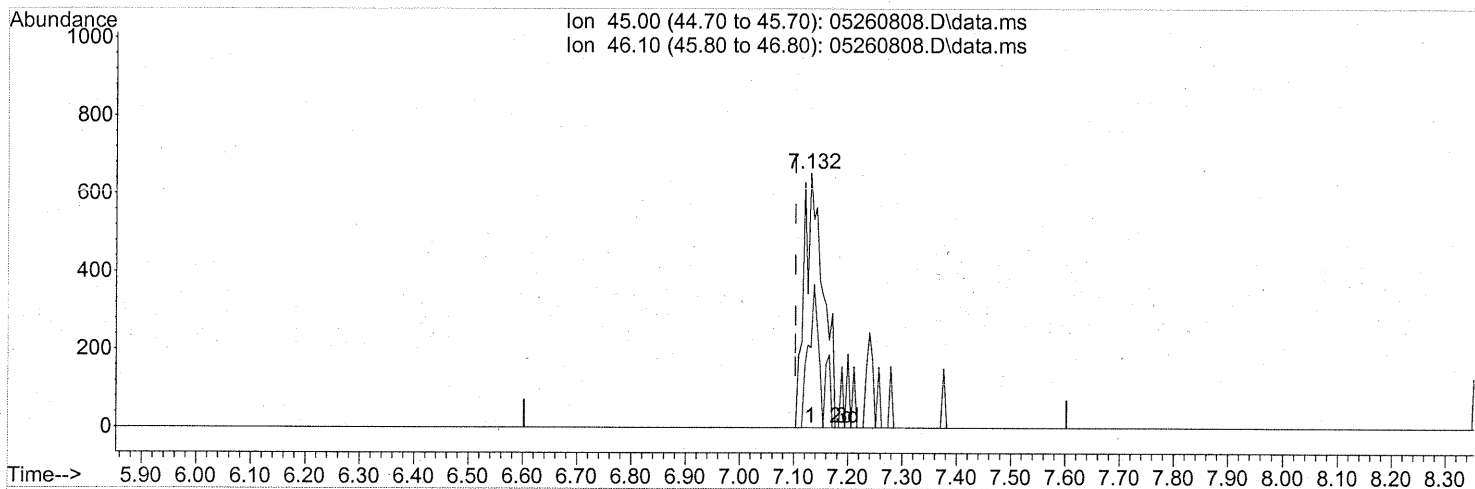
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.57	118	437	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	1984	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	2175	N.D.	✓	
83) n-Decane	24.98	57	1069	N.D.		
84) Benzyl Chloride	25.04	91	332	N.D.	✓	
85) 1,3-Dichlorobenzene	25.08	146	1475	N.D.	✓	
86) 1,4-Dichlorobenzene	25.16	146	2509	N.D.	✓	
87) sec-Butylbenzene	25.21	105	1325	N.D.	✓	
88) p-Isopropyltoluene	25.39	119	1076	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.41	105	1302	N.D.		
90) 1,2-Dichlorobenzene	25.56	146	500	N.D.	✓	
91) d-Limonene	25.58	68	407	N.D.		
92) 1,2-Dibromo-3-Chloropr...	26.12	157	197	N.D.	✓	
93) n-Undecane	26.50	57	1565	N.D.		
94) 1,2,4-Trichlorobenzene	27.63	180	2479	N.D.	✓	
95) Naphthalene	27.78	128	6862	N.D.	✓	
96) n-Dodecane	27.74	57	1840	N.D.		
97) Hexachloro-1,3-butadiene	28.19	225	1087	N.D.	✓	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260808.D
 Acq On : 26 May 2008 16:33
 Operator : WA
 Sample : P0801483-015 (5.0ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 06:13:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



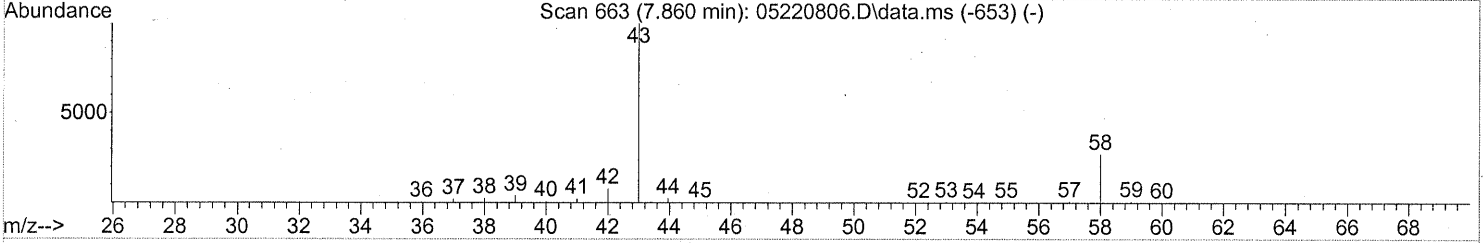
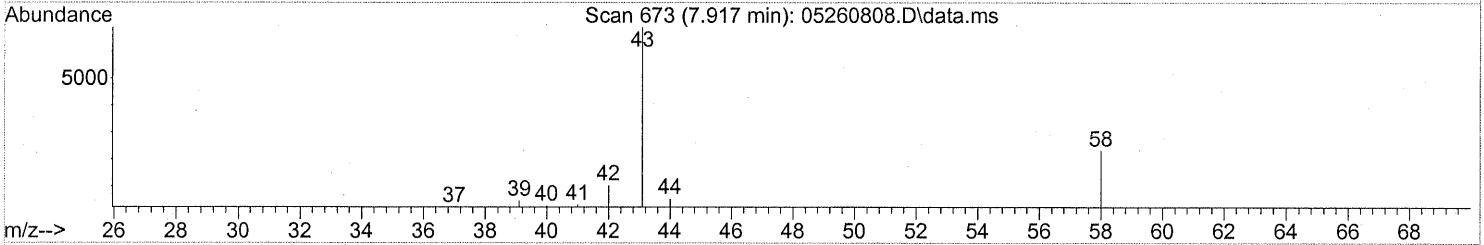
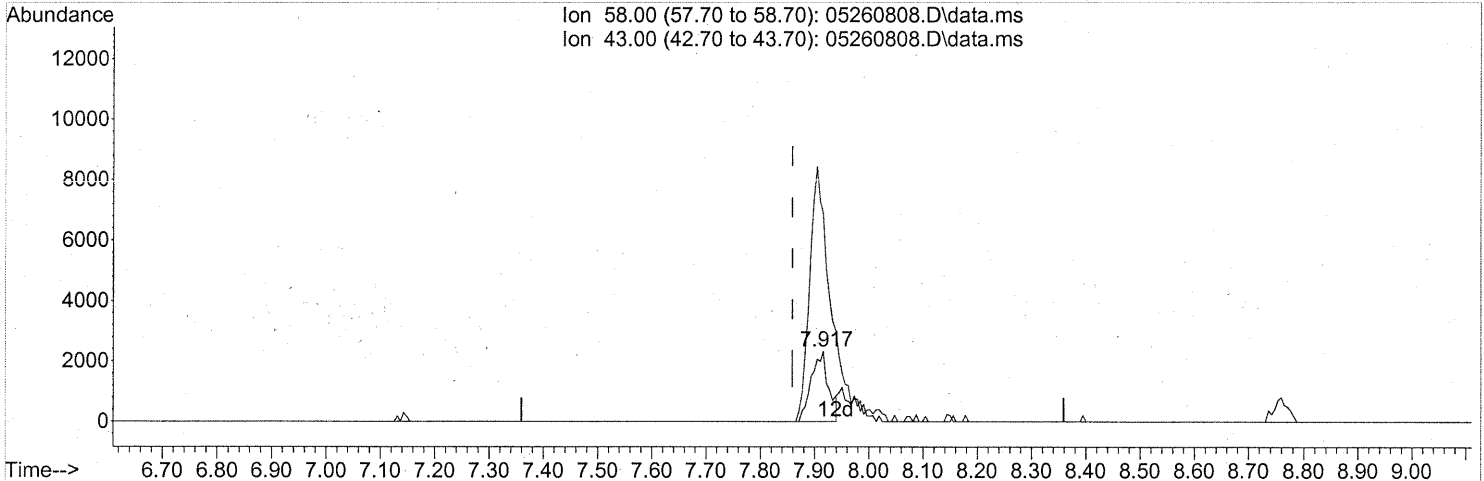
(10) Ethanol (T)
 7.132min (+0.029) 0.06ng
 response 1597

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	29.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260808.D
 Acq On : 26 May 2008 16:33
 Operator : WA
 Sample : P0801483-015 (5.0ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 06:13:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260808.D\data.ms

(13) Acetone (T)

7.917min (+0.057) 0.19ng

response 5137

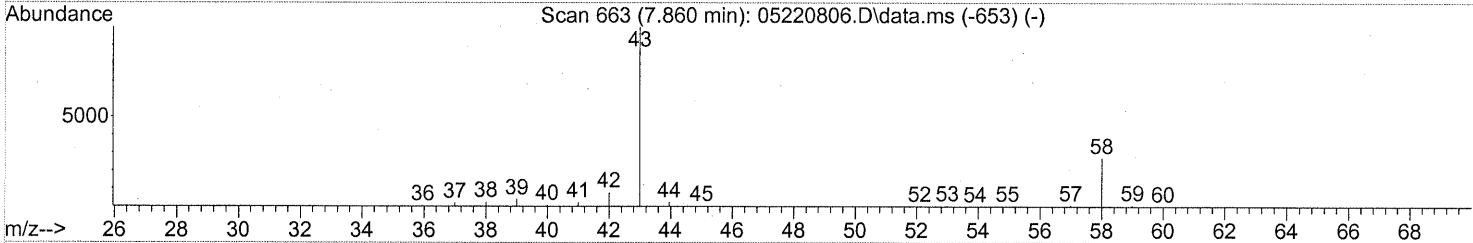
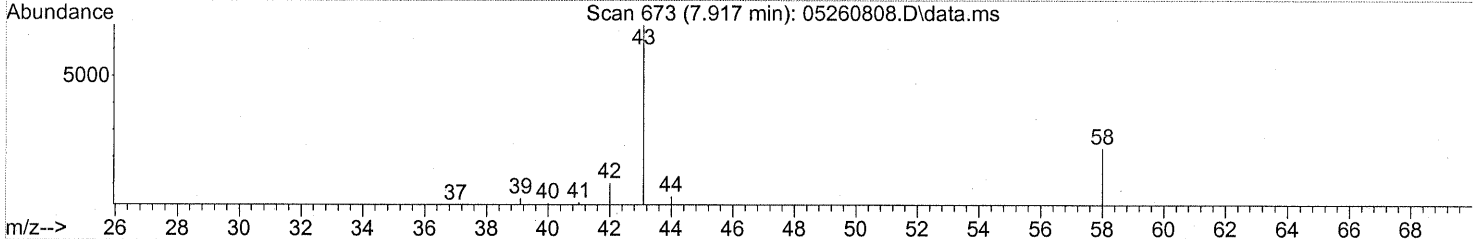
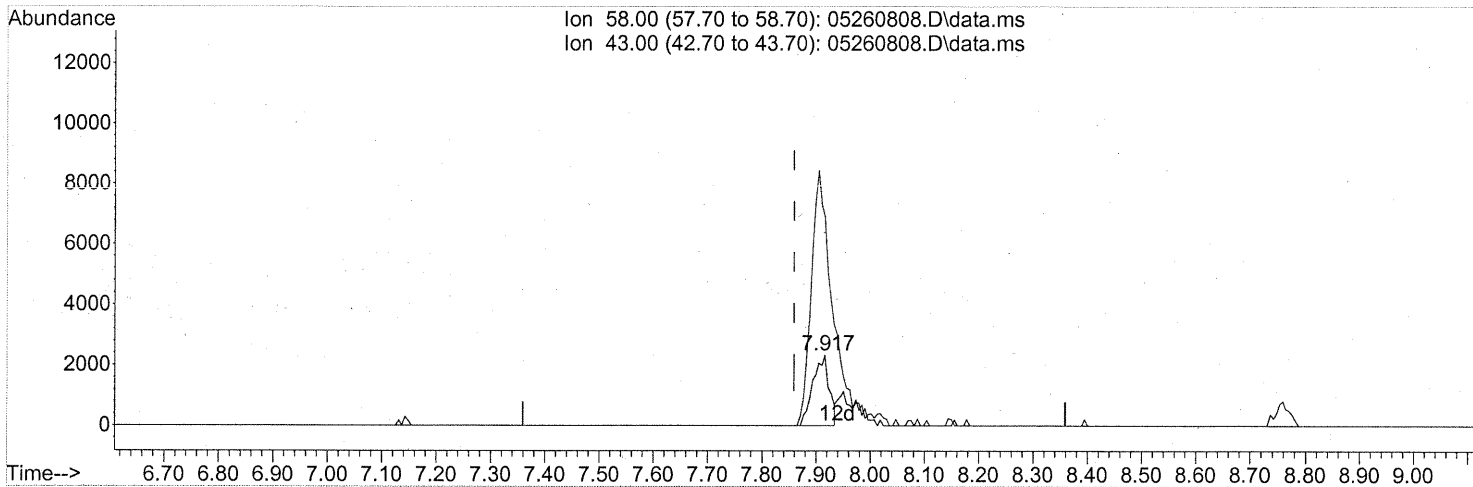
split peaks

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	462.20#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260808.D
Acq On : 26 May 2008 16:33
Operator : WA
Sample : P0801483-015 (5.0ml)
Misc : ENSR SG61B-05 (-3.5, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 06:13:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)
7.917min (+0.057) 0.18ng m
response 4852

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	489.34#
0.00	0.00	0.00
0.00	0.00	0.00

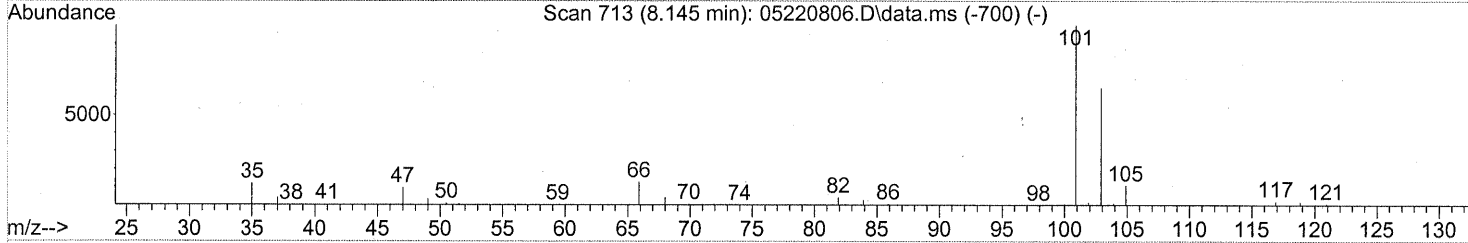
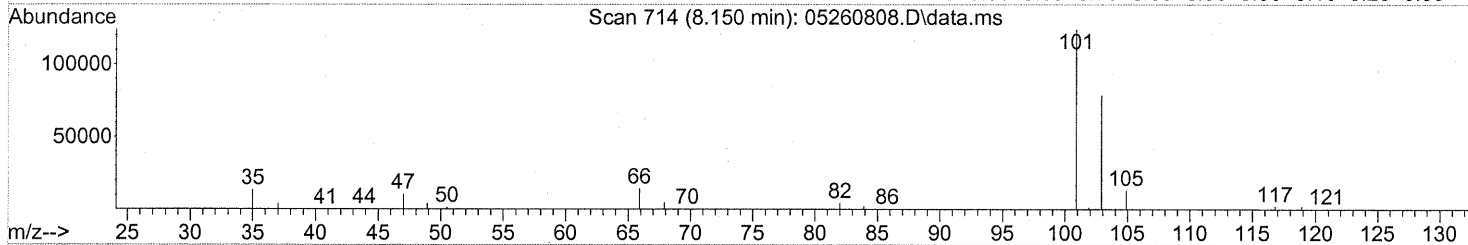
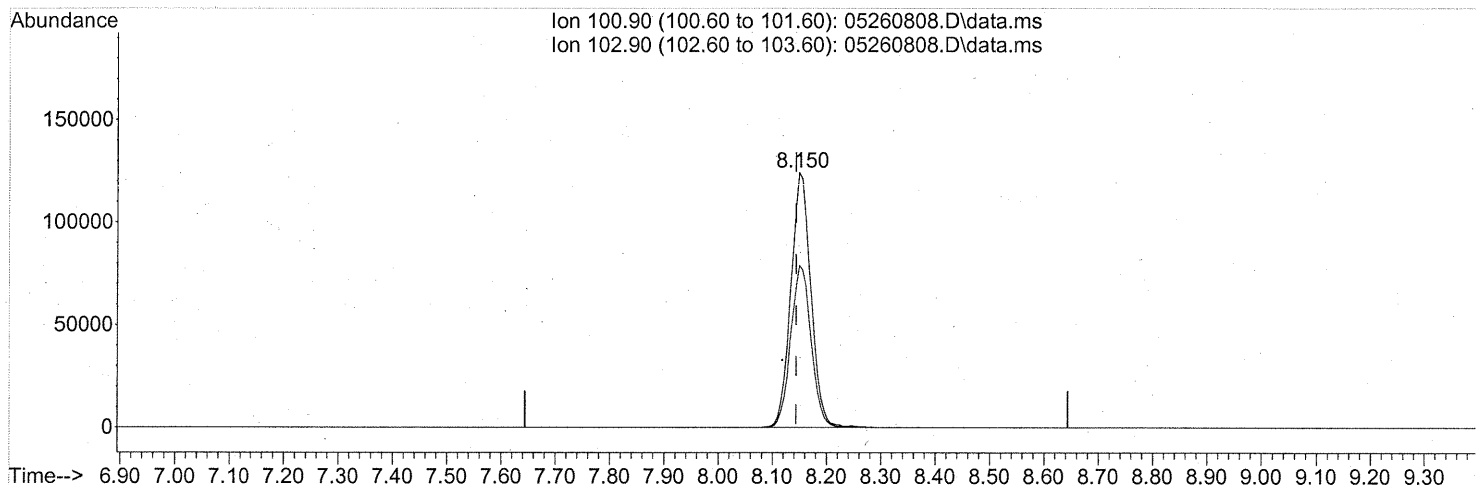
int. whole peaks
WA 5/31/08

Prudiz/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260808.D
 Acq On : 26 May 2008 16:33
 Operator : WA
 Sample : P0801483-015 (5.0ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 06:13:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05260808.D\data.ms

(14) Trichlorofluoromethane (T)

8.150min (+0.006) 5.17ng

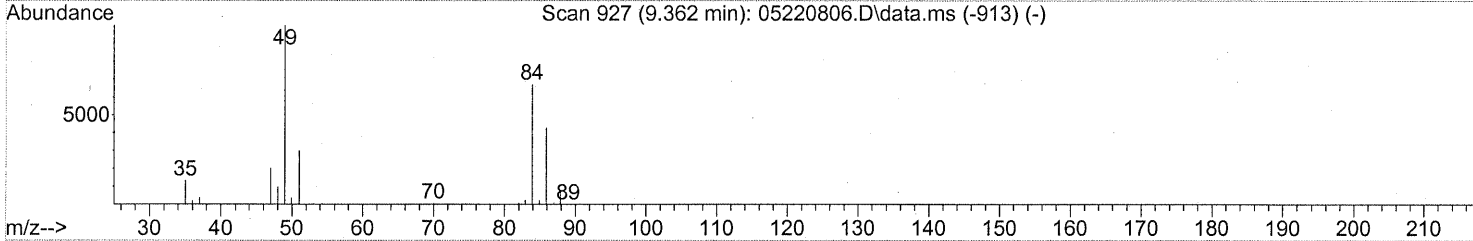
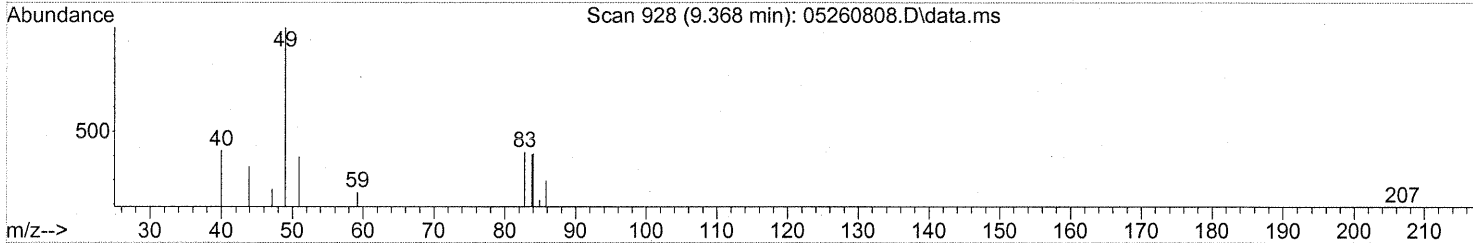
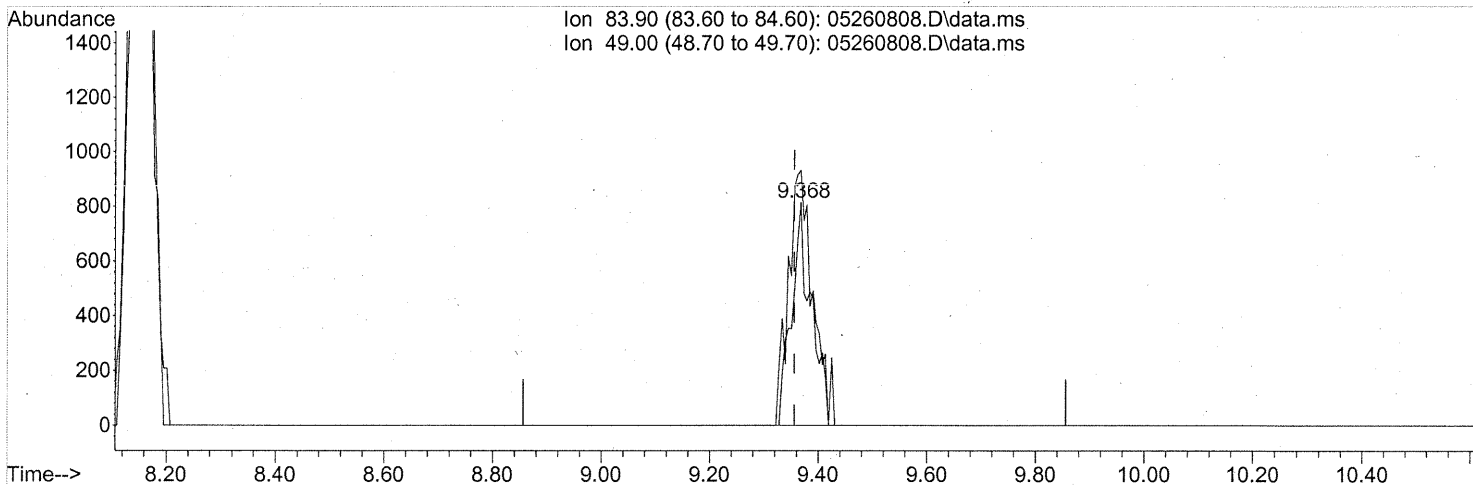
response 319607

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260808.D
Acq On : 26 May 2008 16:33
Operator : WA
Sample : P0801483-015 (5.0ml)
Misc : ENSR SG61B-05 (-3.5, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 06:13:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05260808.D\data.ms

(19) Methylene Chloride (T)

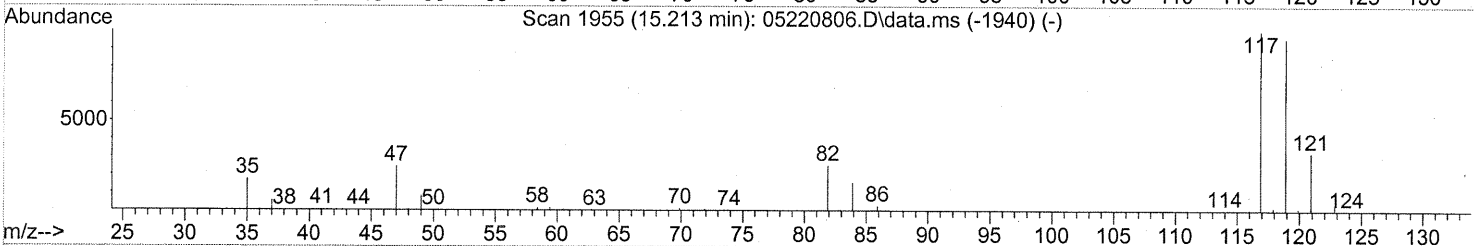
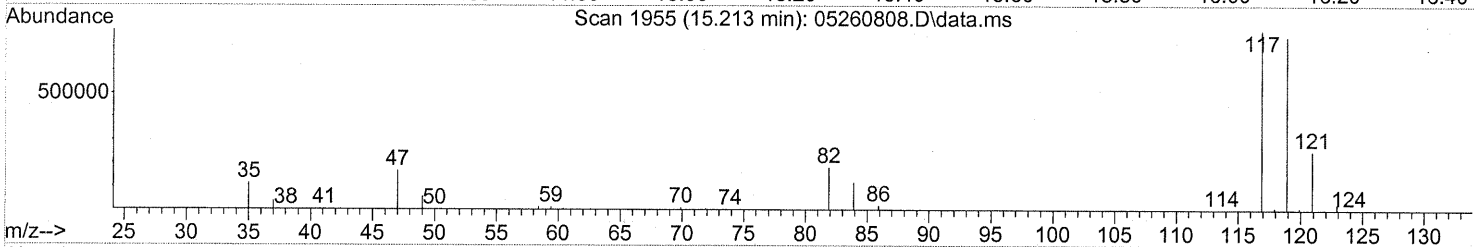
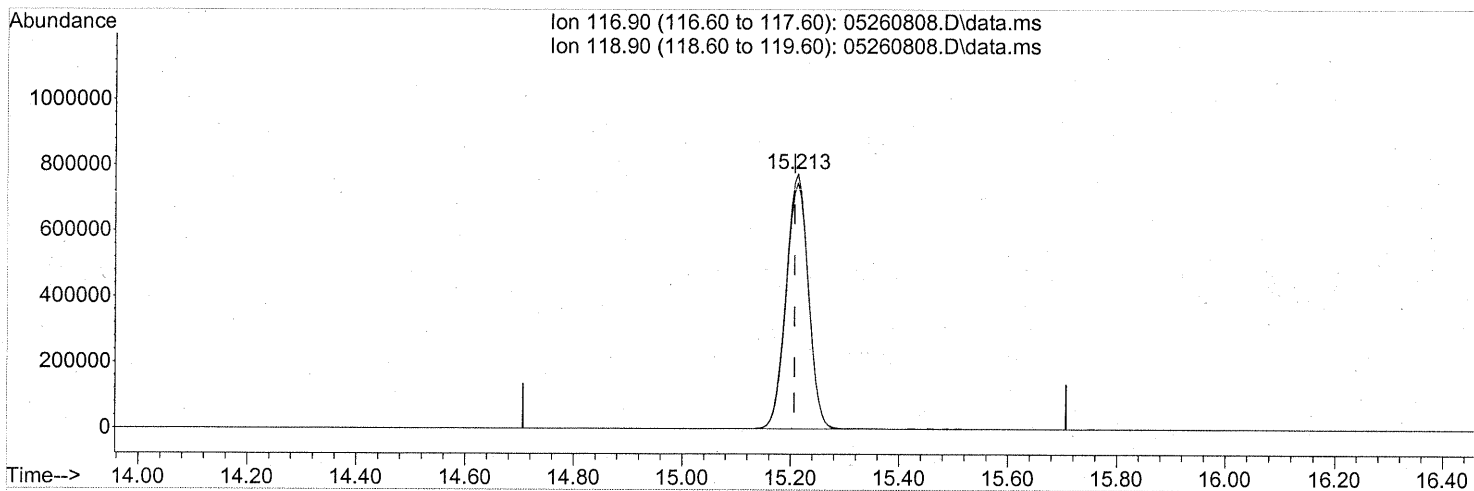
9.368min (+0.011) 0.07ng

response 2052

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	143.32#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260808.D
 Acq On : 26 May 2008 16:33
 Operator : WA
 Sample : P0801483-015 (5.0ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 06:13:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

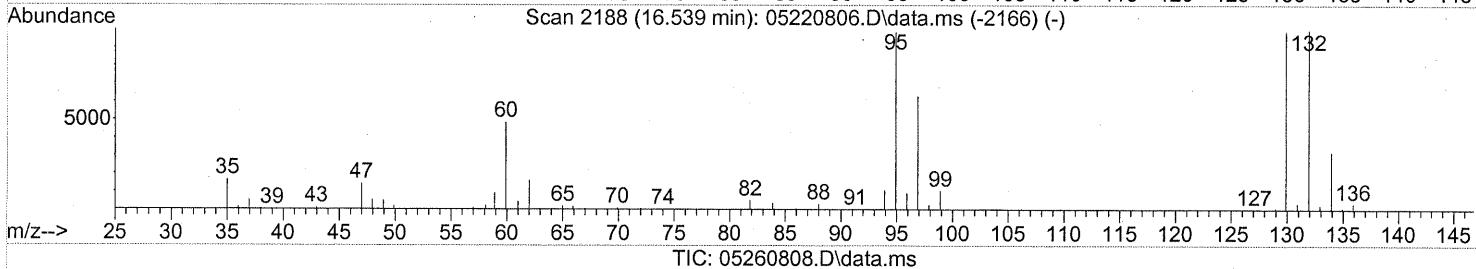
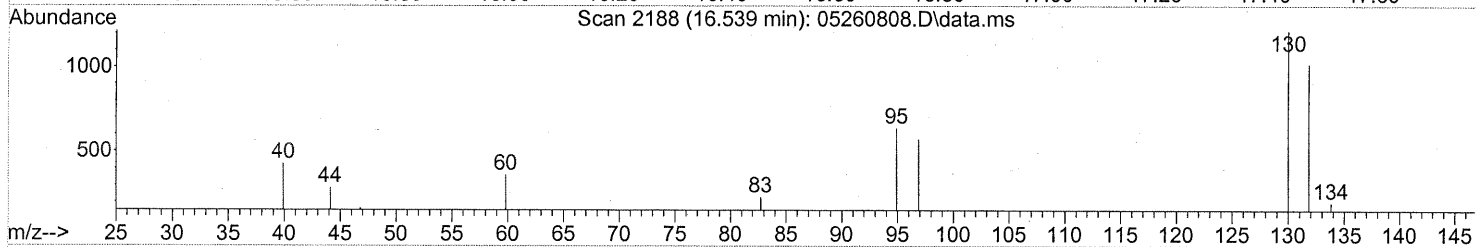
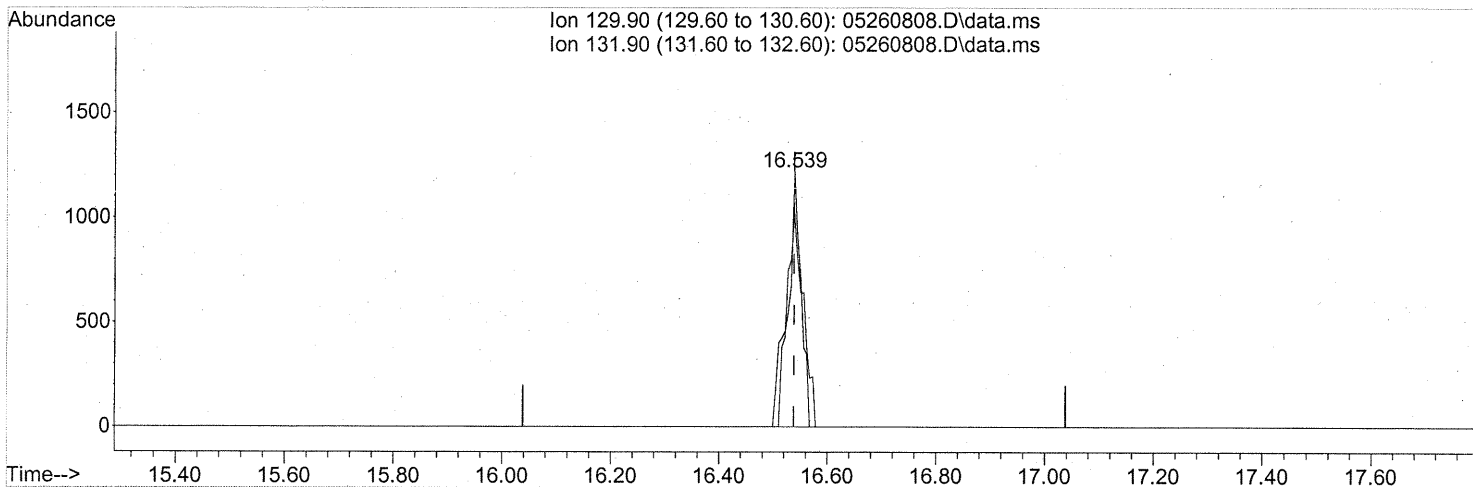
15.213min (+0.006) 51.82ng

response 2211902

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	96.34
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260808.D
 Acq On : 26 May 2008 16:33
 Operator : WA
 Sample : P0801483-015 (5.0ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 06:13:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

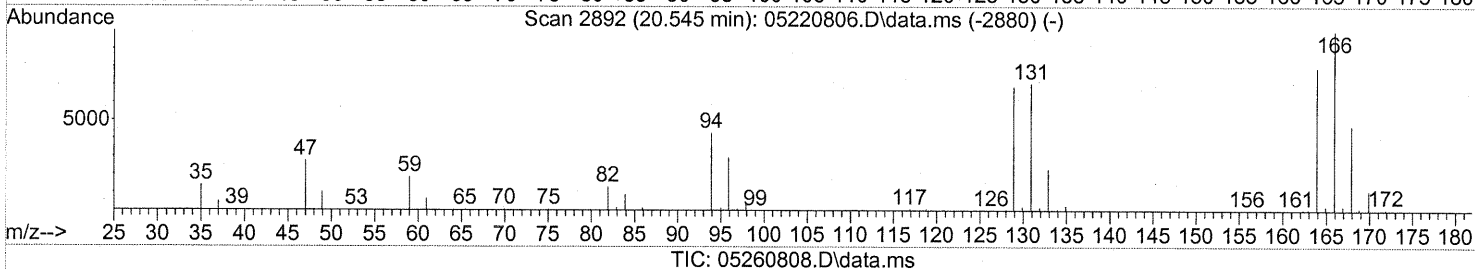
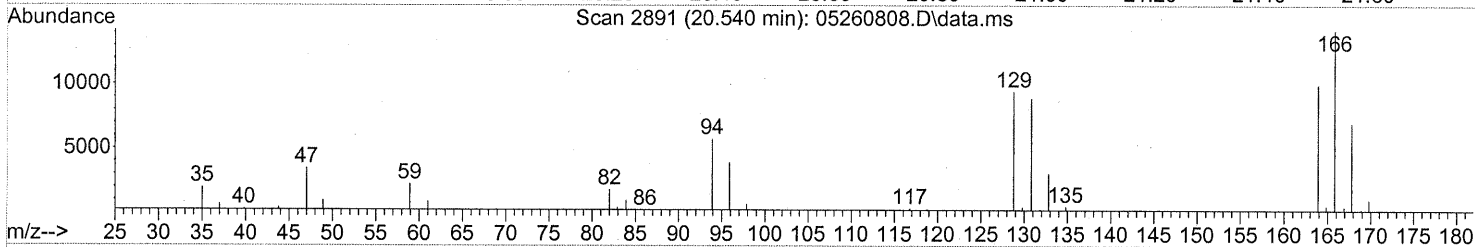
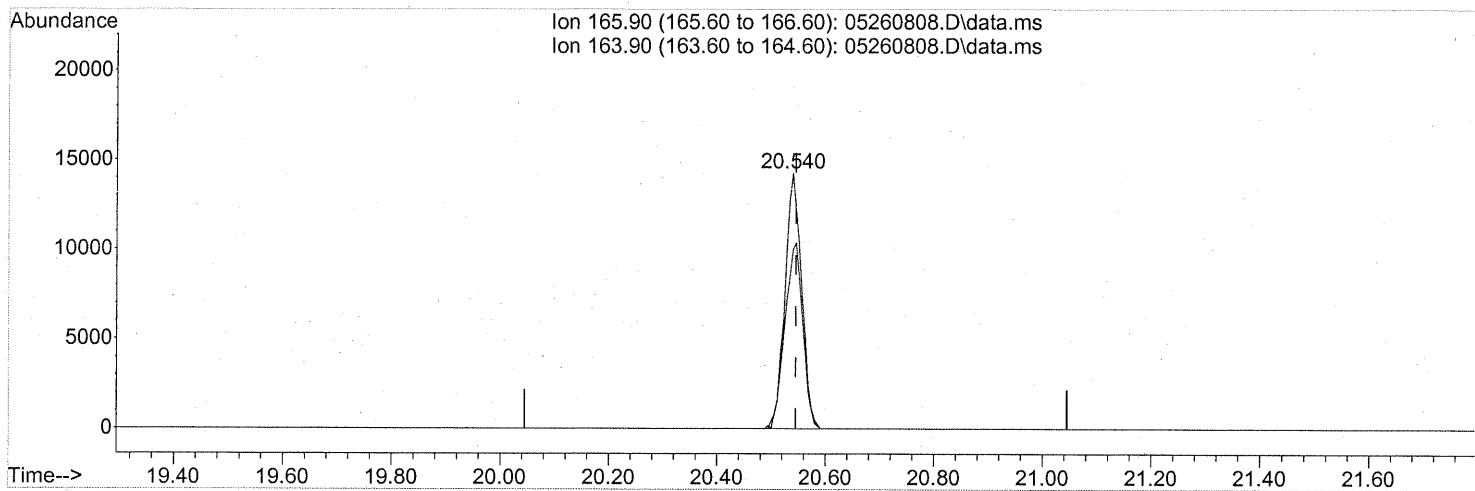


(47) Trichloroethene (T)
 16.539min (+0.000) 0.06ng
 response 2130

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.13
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260808.D
 Acq On : 26 May 2008 16:33
 Operator : WA
 Sample : P0801483-015 (5.0ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 06:13:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

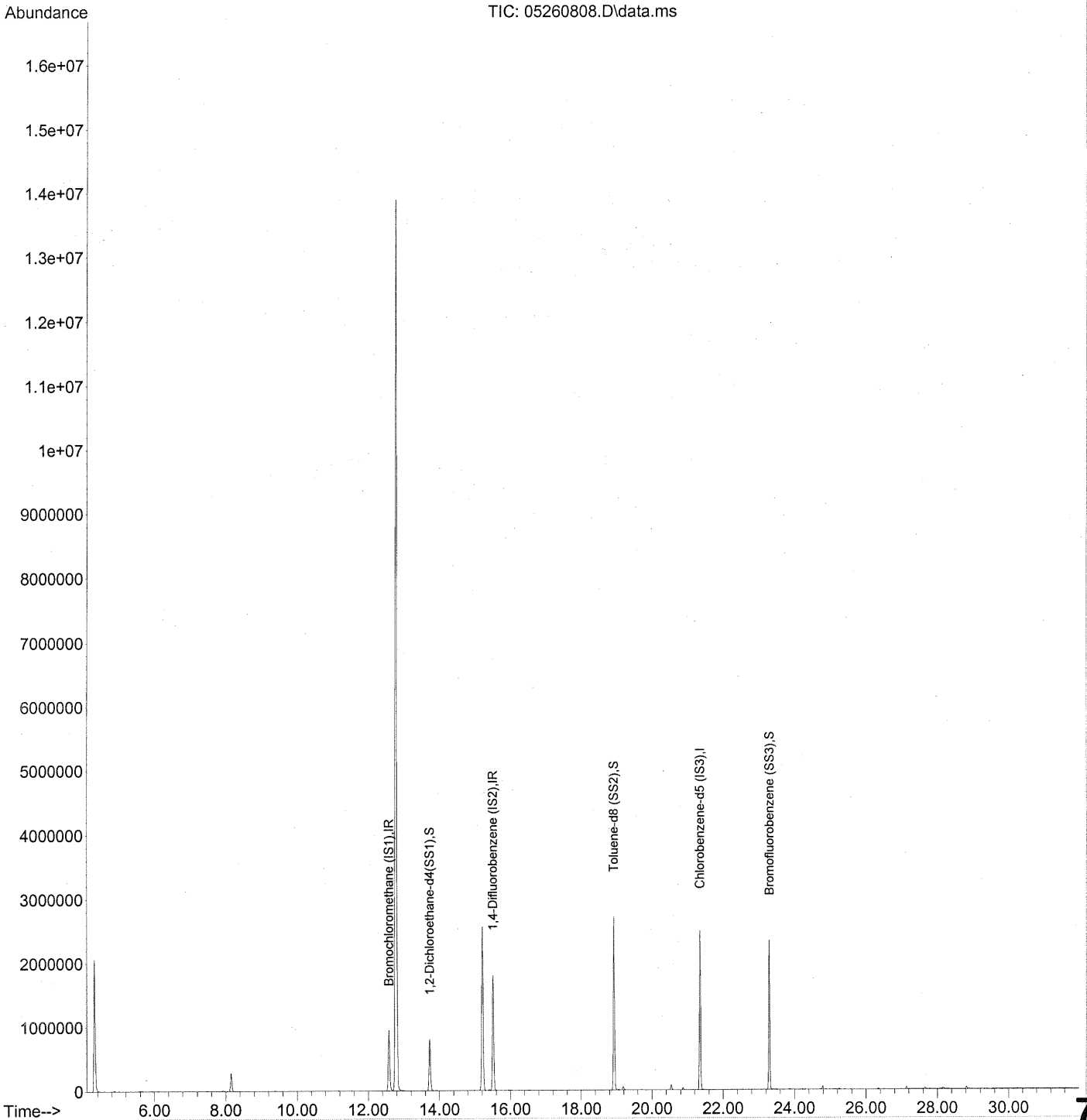
20.540min (-0.006) 0.86ng

response 30389

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	77.87
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260808.D
 Acq On : 26 May 2008 4:33 pm
 Operator : WA
 Sample : P0801483-015 (5.0ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 13:02:11 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260808.D
 Acq On : 26 May 2008 4:33 pm
 Operator : WA
 Sample : P0801483-015 (5.0ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

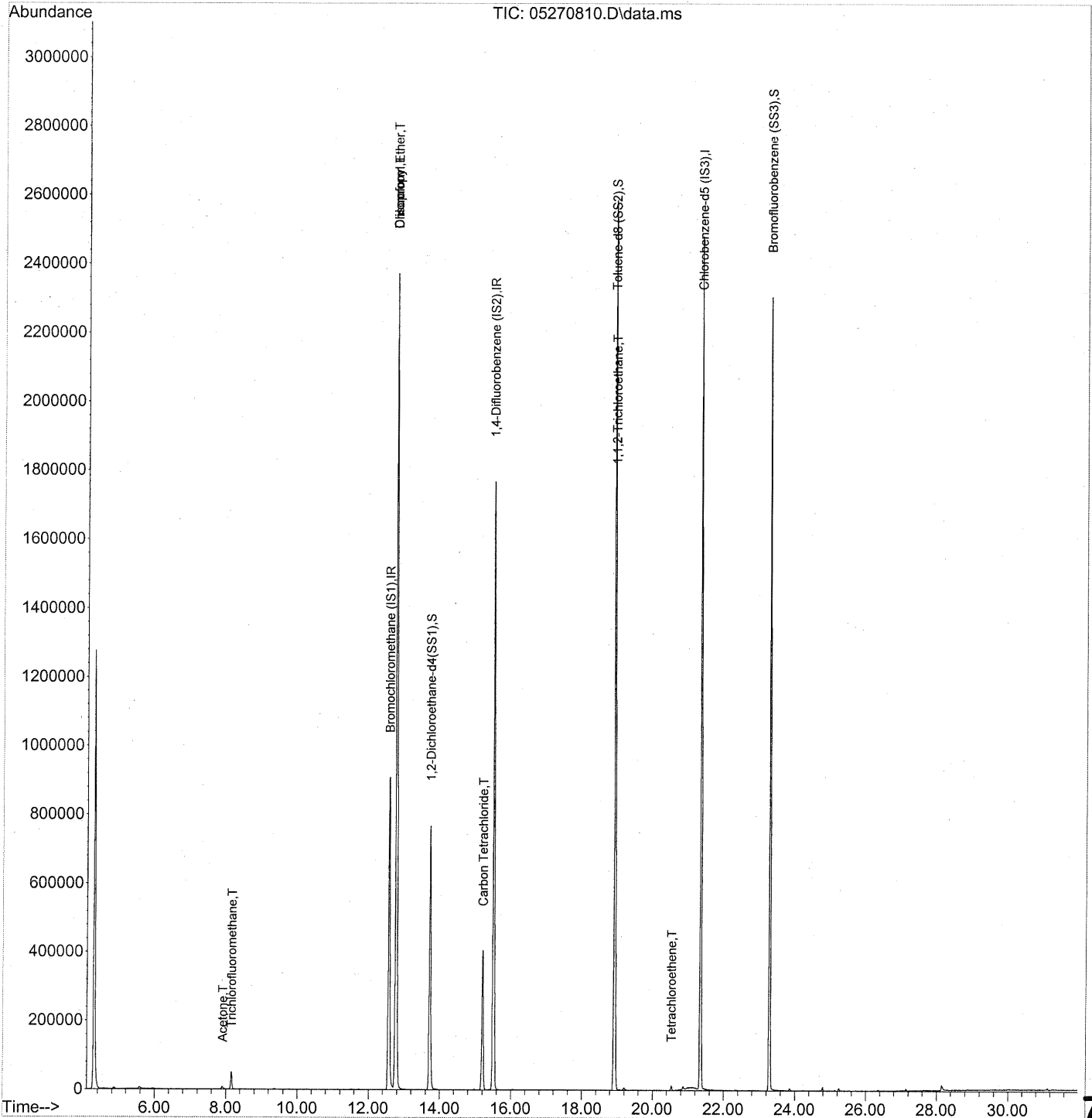
Quant Time: May 31 13:02:11 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) Bromochloromethane (IS1)	12.58	130	494589	25.000	ng	-0.02	
3) 1,4-Difluorobenzene (IS2)	15.51	114	2116782	25.000	ng	-0.02	
4) Chlorobenzene-d5 (IS3)	21.35	82	982080	25.000	ng	-0.01	
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...)	13.72	65	826272	24.111	ng	-0.03	
Spiked Amount	25.000		Recovery	=	96.44%		
5) Toluene-d8 (SS2)	18.92	98	2247943	25.487	ng	-0.02	
Spiked Amount	25.000		Recovery	=	101.96%		
6) Bromofluorobenzene (SS3)	23.29	174	895112	24.957	ng	0.00	
Spiked Amount	25.000		Recovery	=	99.84%		
Target Compounds							
7) tert-Butylbenzene	24.88	119	1199	N.D.			Qvalue
8) n-Butylbenzene	25.92	91	1361	N.D.			

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

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 15:43
Operator : WA
Sample : P0801483-015 Dil (1ml)
Misc : ENSR SG61B-05 (-3.5, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:11:58 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



705

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270810.D
 Acq On : 27 May 2008 15:43
 Operator : WA
 Sample : P0801483-015 Dil (1ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:11:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	480054	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2046521	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	970167	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	798382	24.002	ng	0.00
Spiked Amount	25.000		Recovery	=	96.00%	✓
57) Toluene-d8 (SS2)	18.92	98	2156917	24.755	ng	0.00
Spiked Amount	25.000		Recovery	=	99.00%	✓
73) Bromofluorobenzene (SS3)	23.29	174	874517	24.682	ng	0.00
Spiked Amount	25.000		Recovery	=	98.72%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.87	42	1050	N.D.		
3) Dichlorodifluoromethane	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	195	N.D.		
11) Acetonitrile	7.49	41	399	N.D.		
12) Acrolein	7.68	56	139	N.D.		
13) Acetone	7.91	58	5367	0.208	ng	88
14) Trichlorofluoromethane	8.16	101	53586	0.894	ng	99
15) Isopropanol	0.00	45	0	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	9.36	59	209	N.D.		
19) Methylene Chloride	9.35	84	922	N.D.		
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.74	76	55	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	57	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.54	72	165	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.77	87	261579	11.318	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

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Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270810.D
 Acq On : 27 May 2008 15:43
 Operator : WA
 Sample : P0801483-015 Dil (1ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:11:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.77	83	2508160	57.297	ng	99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.76	62	77	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.91	56	53	N.D.		
41) Benzene	14.99	78	1274	N.D.		
42) Carbon Tetrachloride	15.21	117	347817	8.428	ng	99
43) Cyclohexane	15.41	84	1013	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.49	57	52	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	185849	7.019	ng	# 8
58) Toluene	19.04	91	102	N.D.		
59) 2-Hexanone	19.20	43	68	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.53	166	4801	0.137	ng	99
65) Chlorobenzene	21.42	112	55	N.D.		
66) Ethylbenzene	21.90	91	53	N.D.		
67) m- & p-Xylene	21.90	91	53	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	0.00	91	0	N.D.		
71) n-Nonane	22.79	43	68	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.98	83	71	N.D.		
74) Cumene	23.29	105	1343	N.D.		
75) alpha-Pinene	24.17	93	89	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	0.00	105	0	N.D.		
79) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.		

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WA 6/3/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270810.D
 Acq On : 27 May 2008 15:43
 Operator : WA
 Sample : P0801483-015 Dil (1ml)
 Misc : ENSR SG61B-05 (-3.5, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:11:58 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

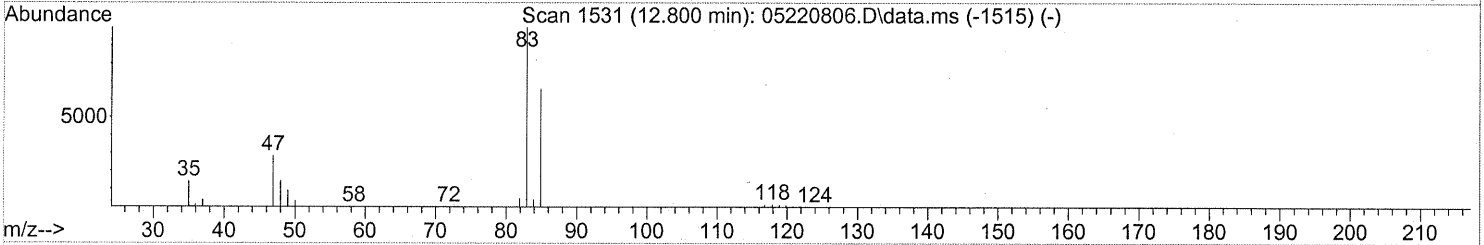
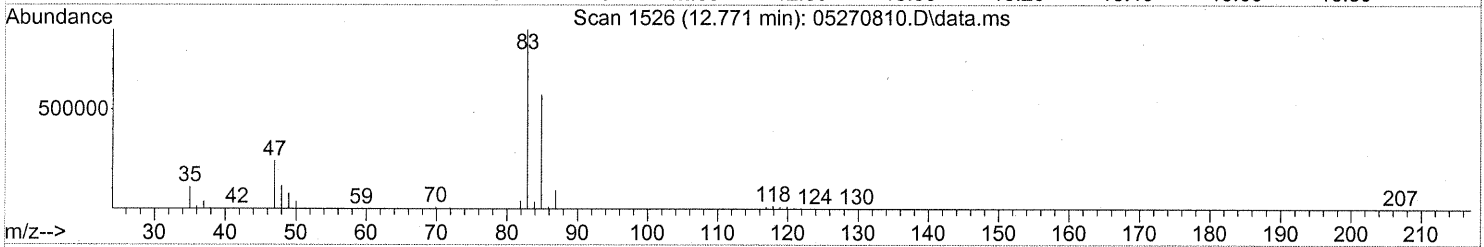
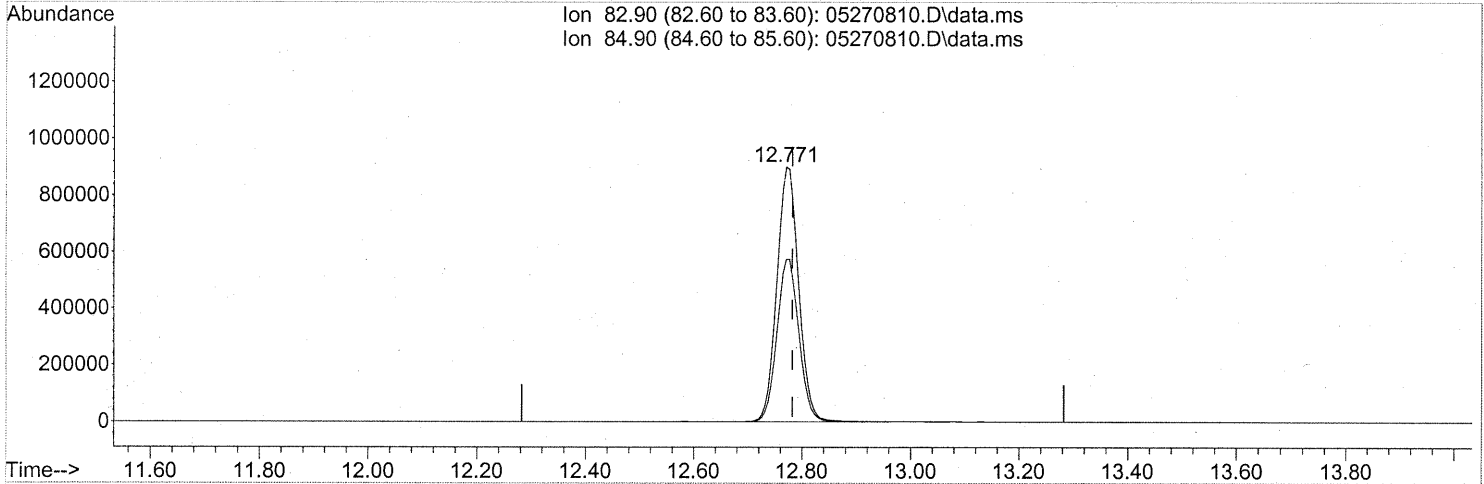
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0		N.D.	
81) 2-Ethyltoluene	0.00	105	0		N.D.	
82) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	
83) n-Decane	24.73	57	183		N.D.	
84) Benzyl Chloride	0.00	91	0		N.D.	
85) 1,3-Dichlorobenzene	25.16	146	57		N.D.	
86) 1,4-Dichlorobenzene	25.16	146	57		N.D.	
87) sec-Butylbenzene	0.00	105	0		N.D.	
88) p-Isopropyltoluene	0.00	119	0		N.D.	
89) 1,2,3-Trimethylbenzene	0.00	105	0		N.D.	
90) 1,2-Dichlorobenzene	25.16	146	57		N.D.	
91) d-Limonene	0.00	68	0		N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.50	57	346		N.D.	
94) 1,2,4-Trichlorobenzene	27.65	180	56		N.D.	
95) Naphthalene	27.79	128	1694		N.D.	
96) n-Dodecane	27.73	57	59		N.D.	
97) Hexachloro-1,3-butadiene	0.00	225	0		N.D.	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 15:43
Operator : WA
Sample : P0801483-015 Dil (1ml)
Misc : ENSR SG61B-05 (-3.5, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:11:58 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270810.D\data.ms

(32) Chloroform (T)
12.771min (-0.012) 57.30ng
response 2508160

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.24
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG83B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-016

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00869

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.010 Liter(s)
 0.0020 Liter(s)

Initial Pressure (psig): -4.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	92	9.2	ND	19	1.9	
74-87-3	Chloromethane	ND	18	9.2	ND	8.9	4.5	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	92	9.2	ND	13	1.3	
75-01-4	Vinyl Chloride	ND	18	9.2	ND	7.2	3.6	
74-83-9	Bromomethane	ND	18	9.2	ND	4.7	2.4	
75-00-3	Chloroethane	ND	18	9.2	ND	7.0	3.5	
64-17-5	Ethanol	32	920	9.2	17	490	4.9	J, B
67-64-1	Acetone	52	920	13	22	390	5.7	J, B
75-69-4	Trichlorofluoromethane	1,400	18	9.2	240	3.3	1.6	
107-13-1	Acrylonitrile	ND	92	13	ND	42	5.9	
75-35-4	1,1-Dichloroethene	ND	18	9.2	ND	4.6	2.3	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	92	14	ND	30	4.5	
75-09-2	Methylene Chloride	9.6	92	9.2	2.8	26	2.6	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	18	9.2	ND	5.9	2.9	
76-13-1	Trichlorotrifluoroethane	ND	18	10	ND	2.4	1.3	
75-15-0	Carbon Disulfide	23	92	22	7.3	30	7.1	J, B
156-60-5	trans-1,2-Dichloroethene	ND	18	9.2	ND	4.6	2.3	
75-34-3	1,1-Dichloroethane	ND	18	9.2	ND	4.5	2.3	
1634-04-4	Methyl tert-Butyl Ether	ND	18	9.2	ND	5.1	2.6	
108-05-4	Vinyl Acetate	ND	920	29	ND	260	8.4	
78-93-3	2-Butanone (MEK)	ND	92	9.2	ND	31	3.1	
156-59-2	cis-1,2-Dichloroethene	ND	18	9.2	ND	4.6	2.3	
108-20-3	Diisopropyl Ether	ND	92	11	ND	22	2.6	
67-66-3	Chloroform	52,000	18	11	11,000	3.8	2.2	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG83B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-016

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00869

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.010 Liter(s)
 0.0020 Liter(s)

Initial Pressure (psig): -4.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	92	9.4	ND	22	2.2	
107-06-2	1,2-Dichloroethane	ND	18	9.2	ND	4.5	2.3	
71-55-6	1,1,1-Trichloroethane	ND	18	9.2	ND	3.4	1.7	
71-43-2	Benzene	79	18	9.2	25	5.8	2.9	
56-23-5	Carbon Tetrachloride	9,800	18	9.2	1,600	2.9	1.5	
994-05-8	tert-Amyl Methyl Ether	ND	92	9.2	ND	22	2.2	
78-87-5	1,2-Dichloropropane	ND	18	9.2	ND	4.0	2.0	
75-27-4	Bromodichloromethane	ND	18	9.2	ND	2.7	1.4	
79-01-6	Trichloroethene	12	18	9.2	2.3	3.4	1.7	J
123-91-1	1,4-Dioxane	ND	92	11	ND	26	3.1	
80-62-6	Methyl Methacrylate	ND	92	14	ND	22	3.4	
142-82-5	n-Heptane	ND	92	12	ND	22	2.9	
10061-01-5	cis-1,3-Dichloropropene	ND	92	9.6	ND	20	2.1	
108-10-1	4-Methyl-2-pentanone	ND	92	10	ND	22	2.5	
10061-02-6	trans-1,3-Dichloropropene	ND	92	12	ND	20	2.6	
79-00-5	1,1,2-Trichloroethane	ND	18	9.2	ND	3.4	1.7	
108-88-3	Toluene	ND	92	9.2	ND	24	2.4	
591-78-6	2-Hexanone	ND	92	14	ND	22	3.4	
124-48-1	Dibromochloromethane	ND	18	13	ND	2.2	1.5	
106-93-4	1,2-Dibromoethane	ND	18	9.9	ND	2.4	1.3	
111-65-9	n-Octane	ND	92	9.2	ND	20	2.0	
127-18-4	Tetrachloroethene	120	18	9.2	18	2.7	1.4	
108-90-7	Chlorobenzene	330	18	9.4	71	4.0	2.0	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG83B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-016

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00869

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 0.010 Liter(s)
 0.0020 Liter(s)

Initial Pressure (psig): -4.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	92	11	ND	21	2.6	
179601-23-1	m,p-Xylenes	ND	92	24	ND	21	5.5	
75-25-2	Bromoform	ND	92	14	ND	8.9	1.4	
100-42-5	Styrene	ND	92	14	ND	22	3.3	
95-47-6	o-Xylene	ND	92	12	ND	21	2.7	
79-34-5	1,1,2,2-Tetrachloroethane	ND	18	12	ND	2.7	1.7	
98-82-8	Cumene	ND	92	10	ND	19	2.1	
103-65-1	n-Propylbenzene	ND	92	9.6	ND	19	1.9	
622-96-8	4-Ethyltoluene	ND	92	10	ND	19	2.1	
108-67-8	1,3,5-Trimethylbenzene	ND	92	11	ND	19	2.2	
98-83-9	alpha-Methylstyrene	ND	92	13	ND	19	2.8	
95-63-6	1,2,4-Trimethylbenzene	ND	92	13	ND	19	2.6	
100-44-7	Benzyl Chloride	ND	18	16	ND	3.6	3.1	
541-73-1	1,3-Dichlorobenzene	ND	18	11	ND	3.1	1.9	
106-46-7	1,4-Dichlorobenzene	ND	18	10	ND	3.1	1.7	
135-98-8	sec-Butylbenzene	ND	92	11	ND	17	1.9	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	92	12	ND	17	2.2	
95-50-1	1,2-Dichlorobenzene	ND	18	12	ND	3.1	2.0	
96-12-8	1,2-Dibromo-3-chloropropane	ND	92	14	ND	9.5	1.4	
120-82-1	1,2,4-Trichlorobenzene	ND	18	14	ND	2.5	1.9	
91-20-3	Naphthalene	ND	37	14	ND	7.0	2.6	
87-68-3	Hexachlorobutadiene	ND	18	17	ND	1.7	1.6	
98-06-6	tert-Butylbenzene	ND	37	9.2	ND	6.7	1.7	
104-51-8	n-Butylbenzene	ND	37	9.2	ND	6.7	1.7	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

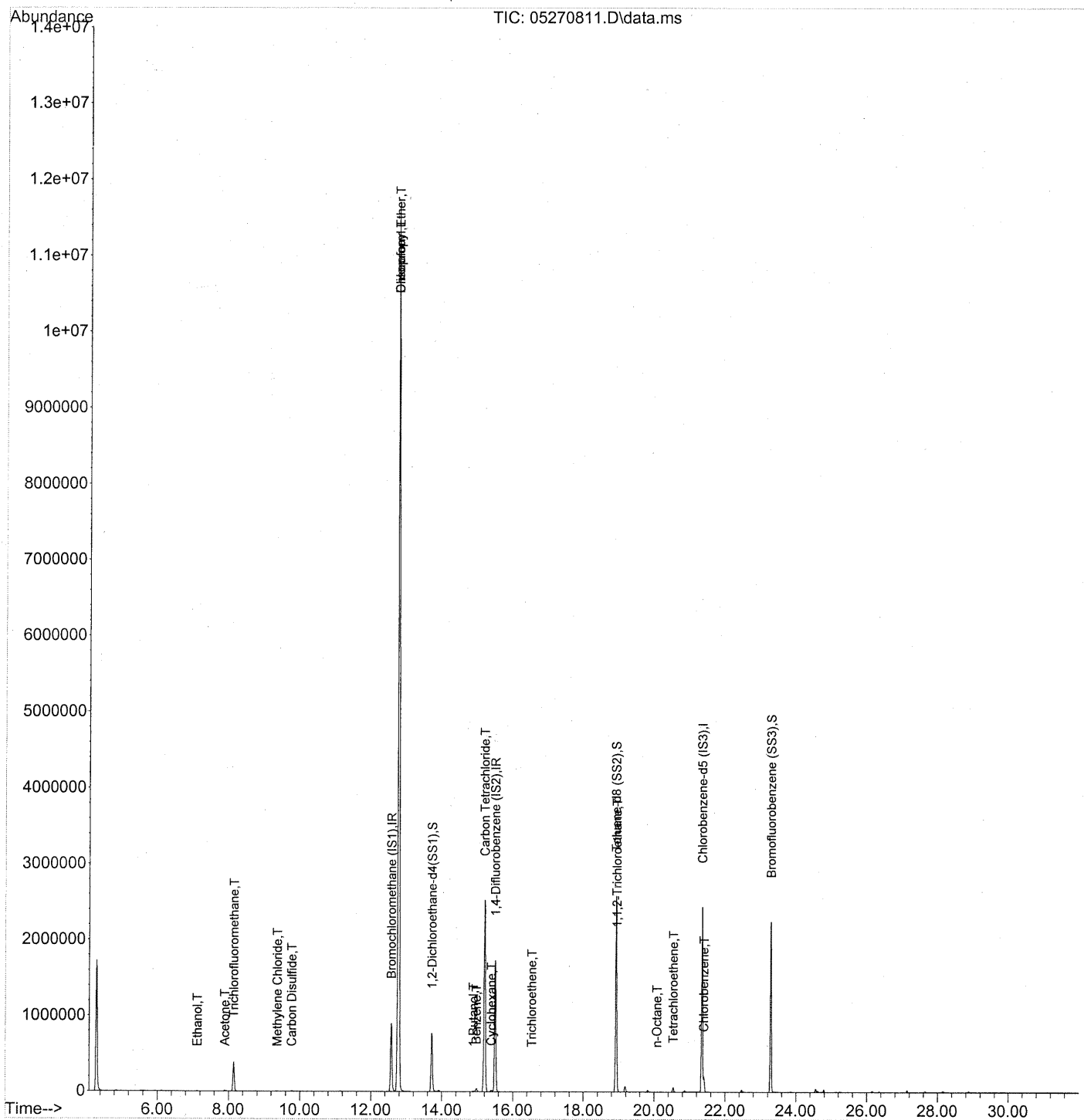
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CA Date: 6/4/08

712

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:40:52 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



713

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:40:52 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	463175	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1975601	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	942315	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)	Recovery
33) 1,2-Dichloroethane-d4(...)	13.72	65	776868	24.207	ng	0.00	96.84%
Spiked Amount				25.000			
57) Toluene-d8 (SS2)	18.92	98	2126256	25.124	ng	0.00	100.48%
Spiked Amount				25.000			
73) Bromofluorobenzene (SS3)	23.29	174	849288	24.678	ng	0.00	98.72%
Spiked Amount				25.000			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	536	N.D.		
3) Dichlorodifluoromethane	4.99	85	990	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	4193m	0.172 ng		
11) Acetonitrile	7.42	41	78	N.D.		
12) Acrolein	7.69	56	261	N.D.		
13) Acetone	7.89	58	6986	0.280 ng		99
14) Trichlorofluoromethane	8.14	101	428625	7.409 ng		100
15) Isopropanol	8.36	45	145	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	9.29	59	54	N.D.		
19) Methylene Chloride	9.37	84	1447	0.052 ng		86
20) Allyl Chloride	9.36	41	58	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.77	76	13125	0.124 ng		97
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	1707	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.73	72	238	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	1342965	60.226 ng NR#		1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.70	57	134	N.D.		

714

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:40:52 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	12259022	290.251	ng	see dif 98
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.78	62	66	N.D.	✓	
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.	✓	
39) Isopropyl Acetate	14.97	61	147	N.D.		
40) 1-Butanol	14.89	56	5801	0.214	ng	95
41) Benzene	14.98	78	44250	0.428	ng	98
42) Carbon Tetrachloride	15.21	117	2131784	53.512	ng	99
43) Cyclohexane	15.40	84	9415	0.234	ng	# 77
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	0.00	63	0	N.D.	✓	
46) Bromodichloromethane	16.45	83	860	N.D.	✓	
47) Trichloroethene	16.54	130	2079	0.066	ng	84
48) 1,4-Dioxane	0.00	88	0	N.D.	✓	
49) Isooctane	16.78	57	1202	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.	✓	
51) n-Heptane	0.00	71	0	N.D.	✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.	✓	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	184366	7.212	ng	NR # 8
58) Toluene	19.06	91	982	N.D.	✓	
59) 2-Hexanone	19.42	43	58	N.D.	✓	
60) Dibromochloromethane	0.00	129	0	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.21	43	1005	N.D.		
63) n-Octane	20.08	57	1547	0.061	ng	NR # 73
64) Tetrachloroethene	20.54	166	22799	0.670	ng	99
65) Chlorobenzene	21.40	112	136404	1.769	ng	98
66) Ethylbenzene	21.90	91	162	N.D.	✓	
67) m- & p-Xylene	22.11	91	204	N.D.	✓	
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	0.00	104	0	N.D.	✓	
70) o-Xylene	0.00	91	0	N.D.	✓	
71) n-Nonane	22.98	43	477	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.66	83	68	N.D.	✓	
74) Cumene	23.29	105	1439	N.D.	✓	
75) alpha-Pinene	24.26	93	72	N.D.		
76) n-Propylbenzene	24.11	91	109	N.D.	✓	
77) 3-Ethyltoluene	24.23	105	57	N.D.		
78) 4-Ethyltoluene	24.28	105	53	N.D.	✓	
79) 1,3,5-Trimethylbenzene	24.28	105	53	N.D.	✓	

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:40:52 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

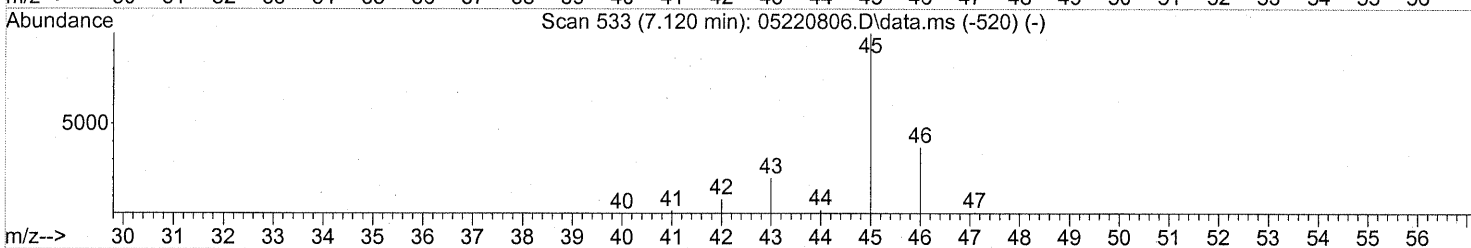
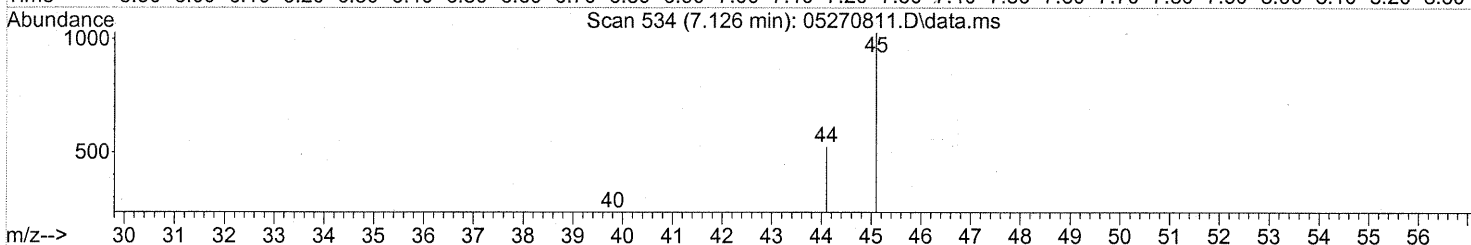
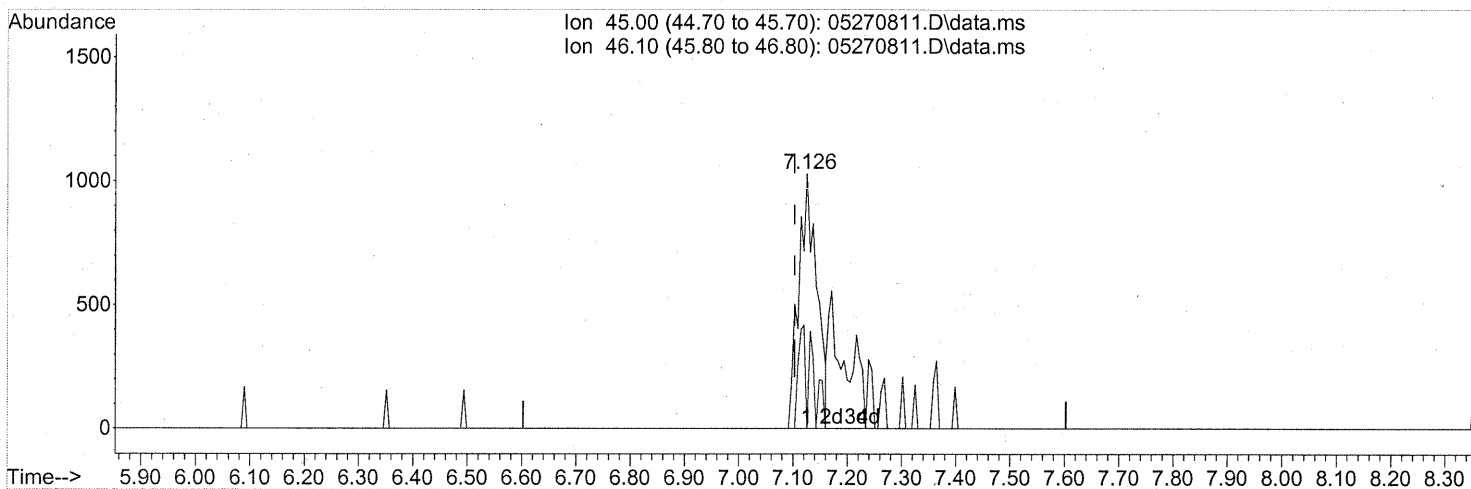
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.77	118	265	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	136	N.D.		
82) 1,2,4-Trimethylbenzene	24.89	105	258	N.D.	✓	
83) n-Decane	24.98	57	107	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.	✓	
85) 1,3-Dichlorobenzene	25.15	146	848	N.D.	✓	
86) 1,4-Dichlorobenzene	25.15	146	848	N.D.	✓	
87) sec-Butylbenzene	25.21	105	55	N.D.	✓	
88) p-Isopropyltoluene	25.41	119	241	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.41	105	90	N.D.		
90) 1,2-Dichlorobenzene	25.15	146	848	N.D.	✓	
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	✓	
93) n-Undecane	26.50	57	471	N.D.		
94) 1,2,4-Trichlorobenzene	27.63	180	392	N.D.	✓	
95) Naphthalene	27.78	128	2526	N.D.	✓	
96) n-Dodecane	27.73	57	571	N.D.		
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	✓	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270811.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801483-016 (10ml)
Misc : ENSR SG83B-05D (-4.7, 3.7)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:12:09 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.126min (+0.023) 0.10ng

response 2372

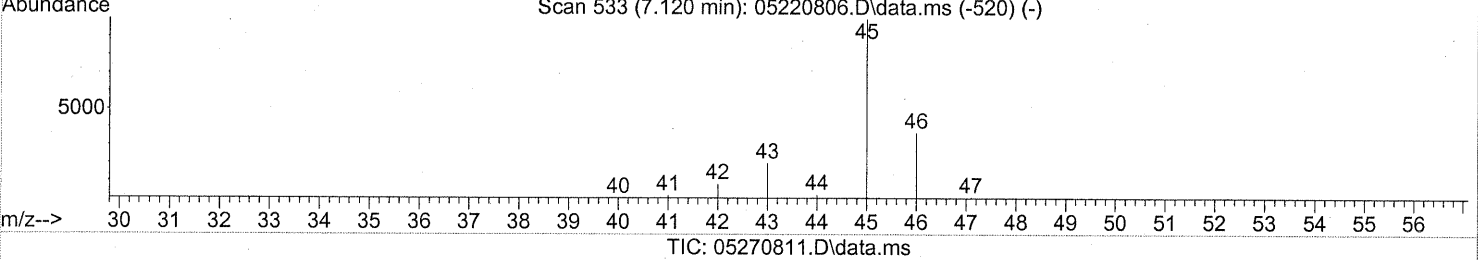
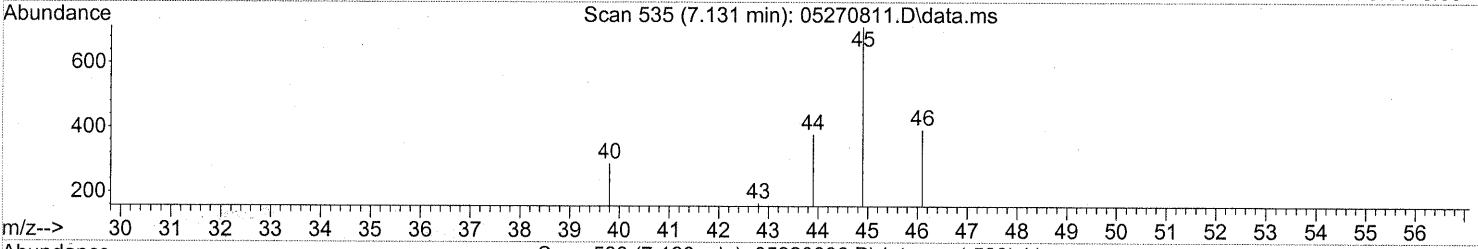
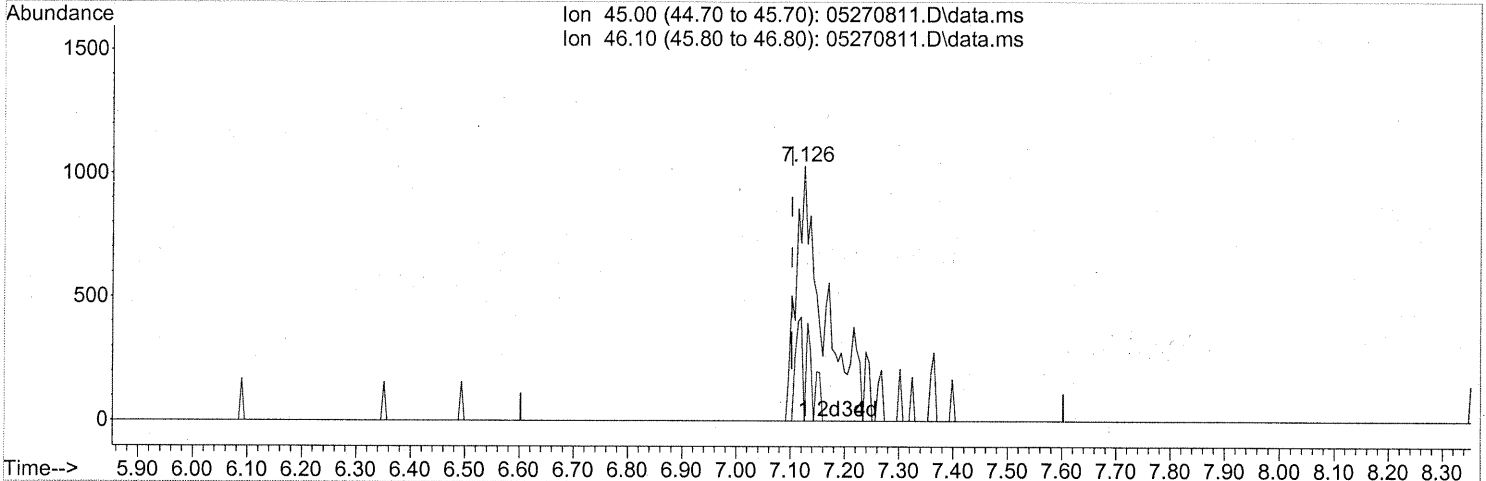
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	9.78#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270811.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801483-016 (10ml)
Misc : ENSR SG83B-05D (-4.7, 3.7)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:12:09 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)
7.126min (+0.023) 0.17ng m
response 4193

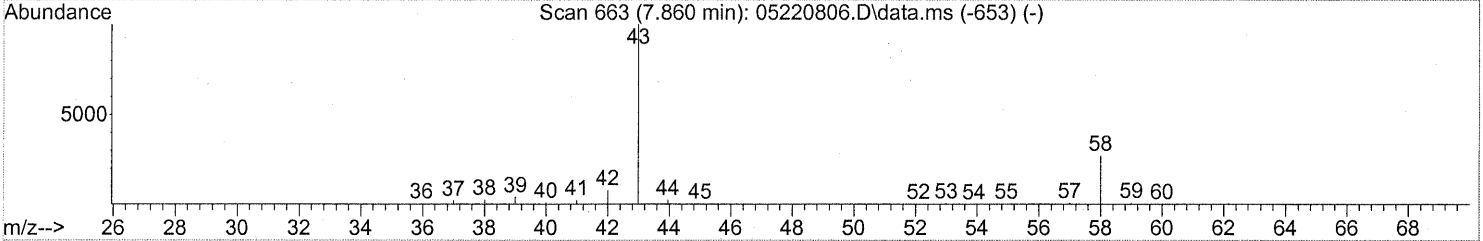
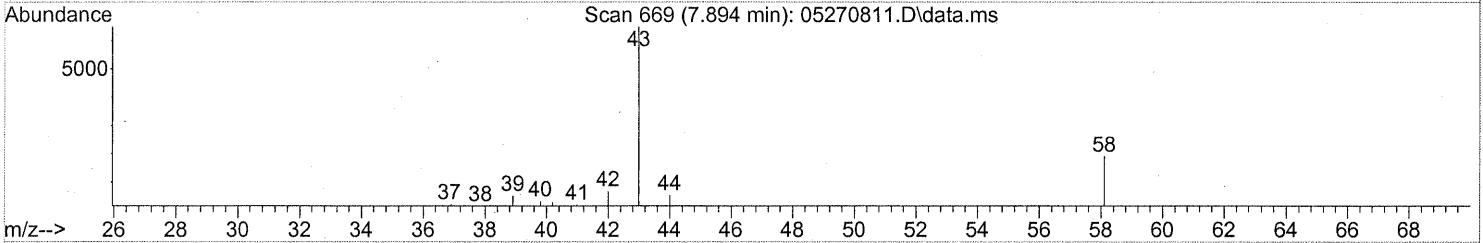
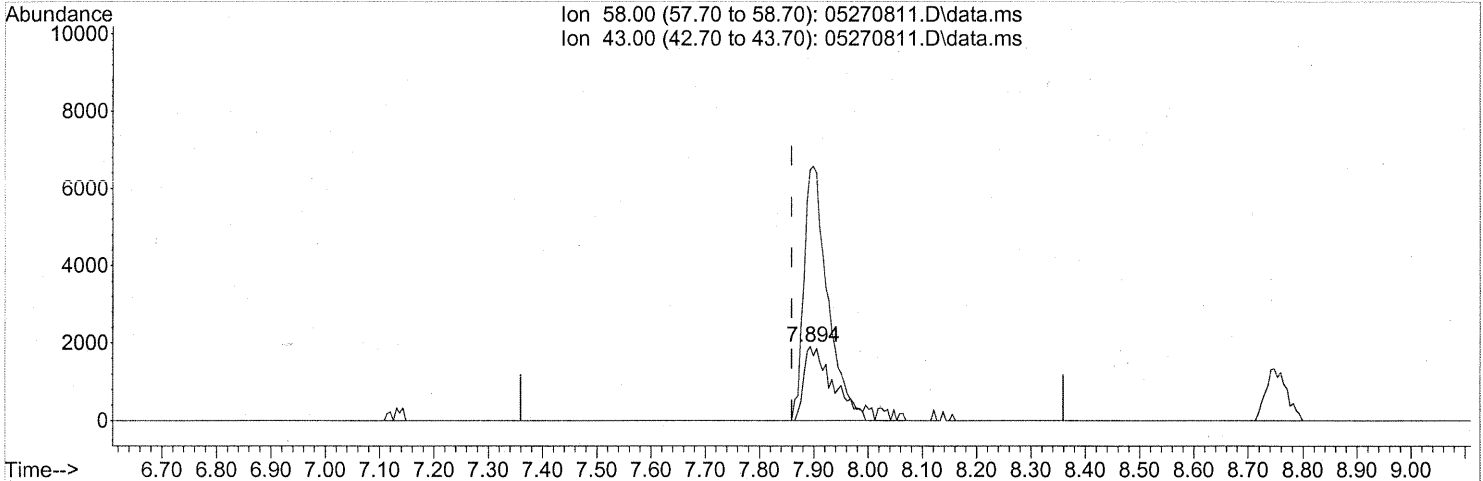
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	5.53#
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
WA 5/31/08
P 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:12:09 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

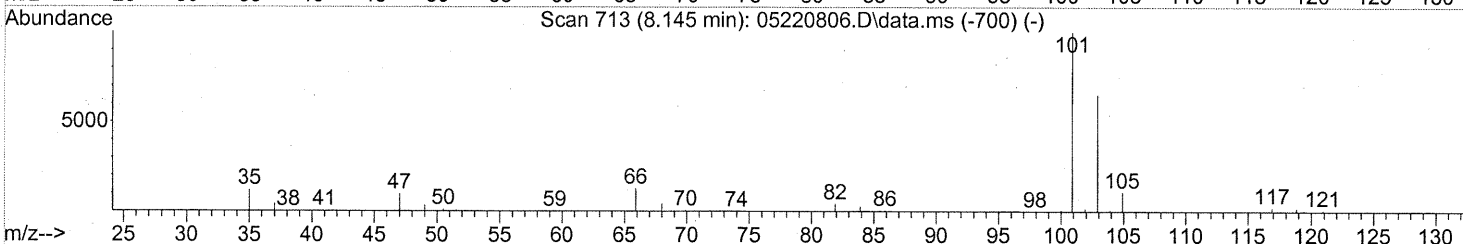
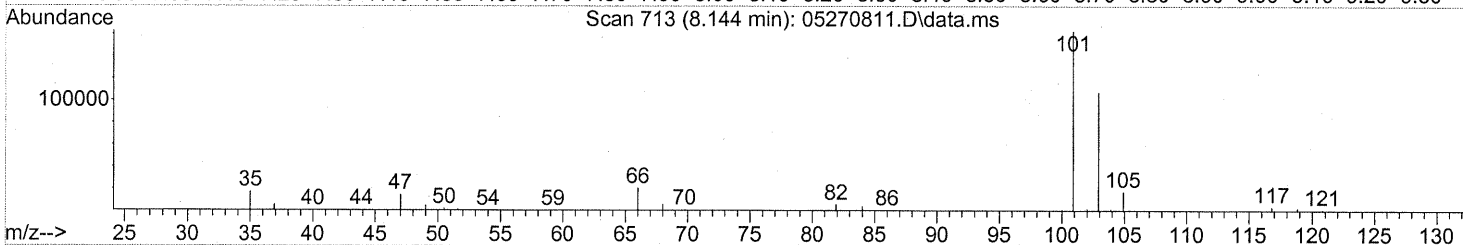
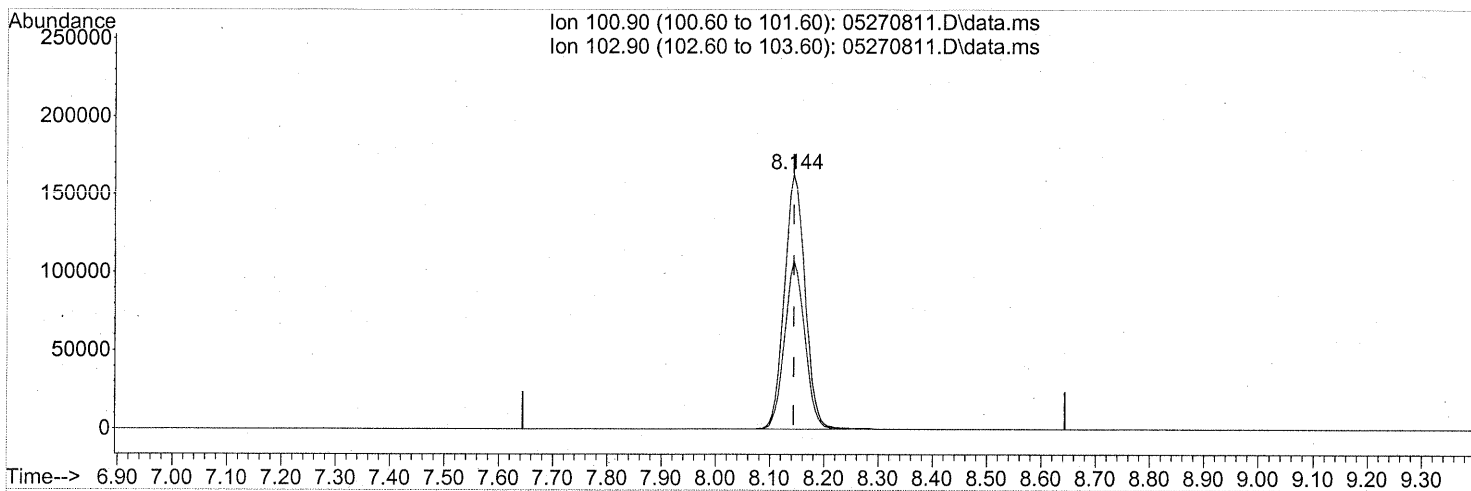


(13) Acetone (T)
 7.894min (+0.034) 0.28ng
 response 6986

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	284.60
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:12:09 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.144min (-0.000) 7.41ng

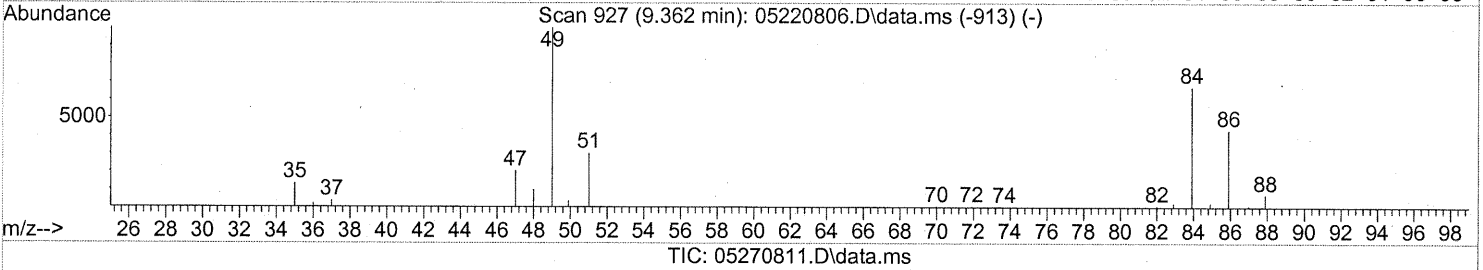
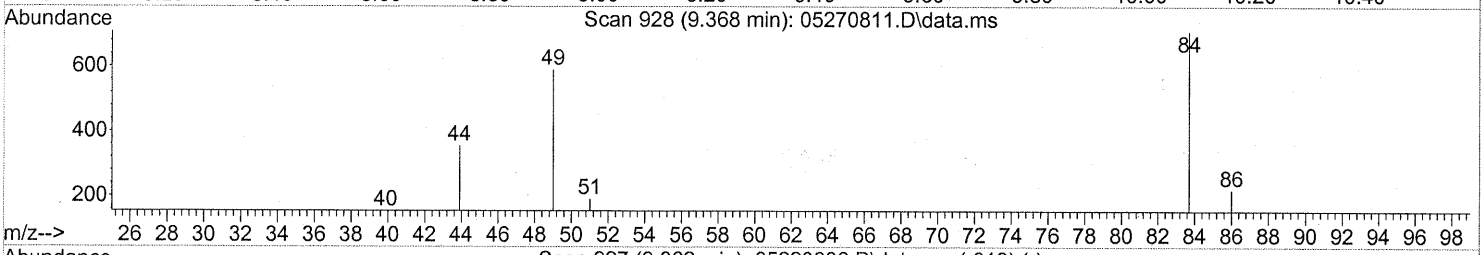
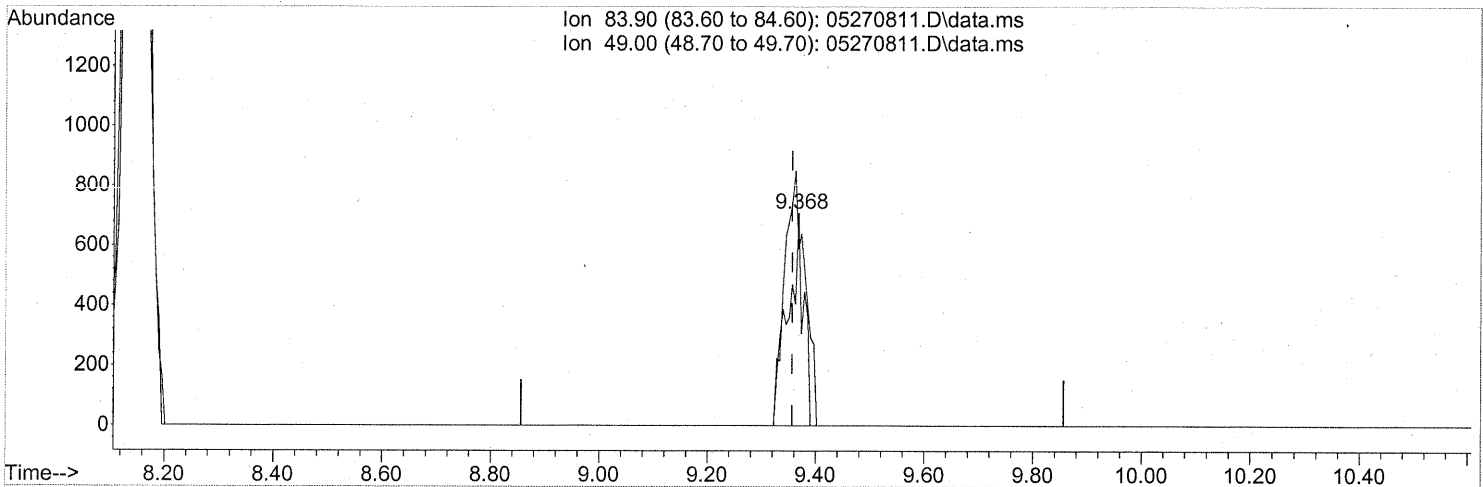
response 428625

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:12:09 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.368min (+0.011) 0.05ng

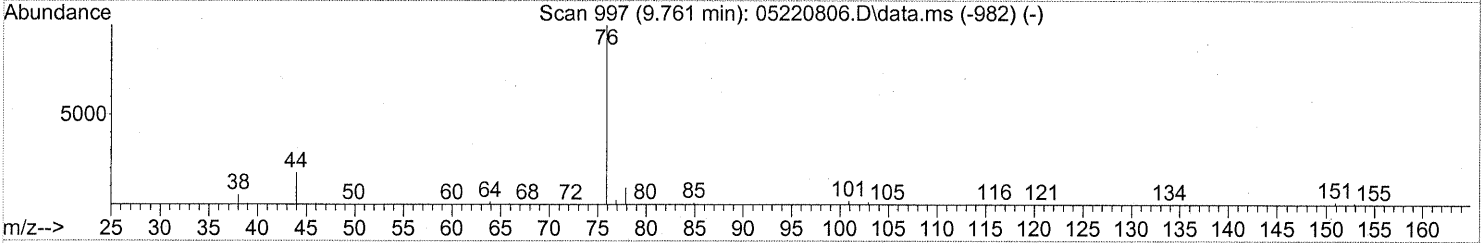
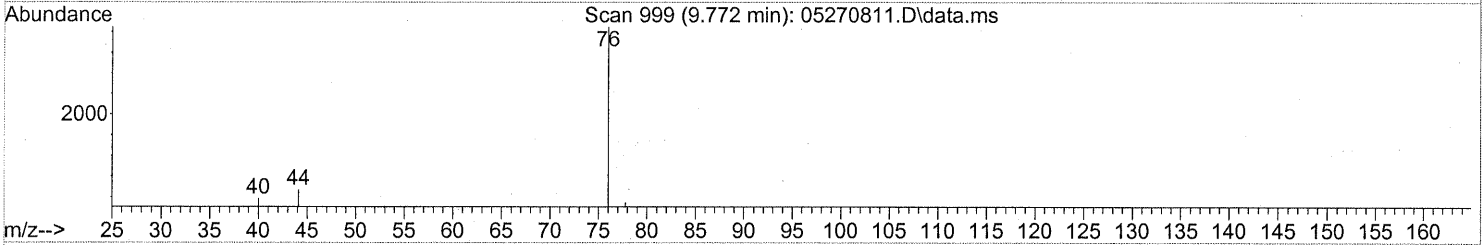
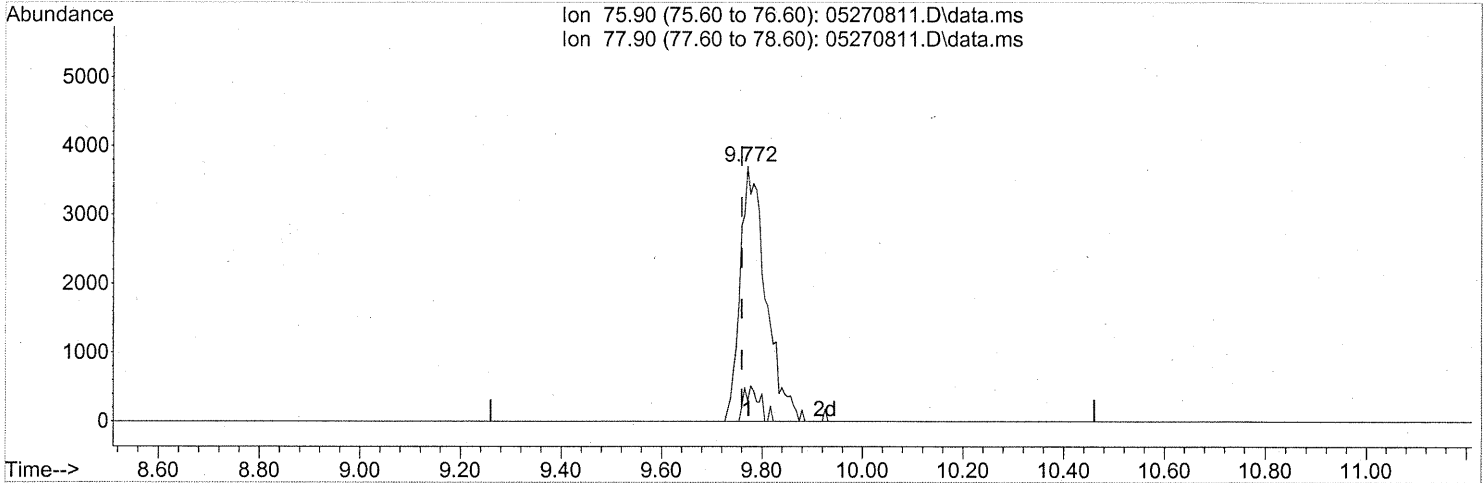
response 1447

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	153.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270811.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801483-016 (10ml)
Misc : ENSR SG83B-05D (-4.7, 3.7)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:12:09 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270811.D\data.ms

(22) Carbon Disulfide (T)

9.772min (+0.011) 0.12ng

response 13125

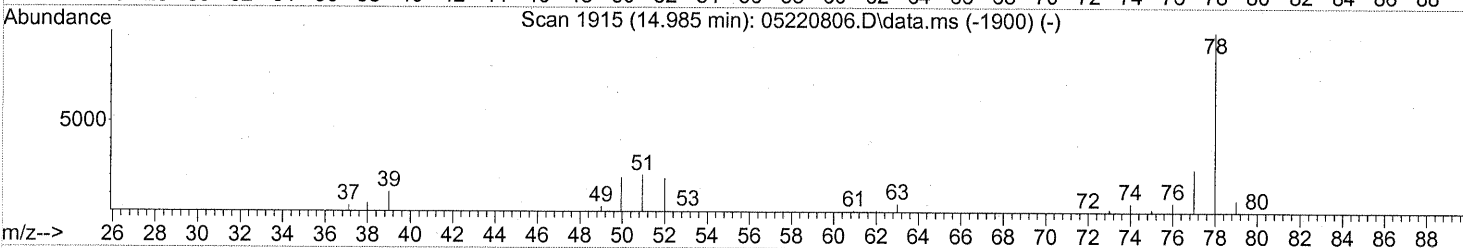
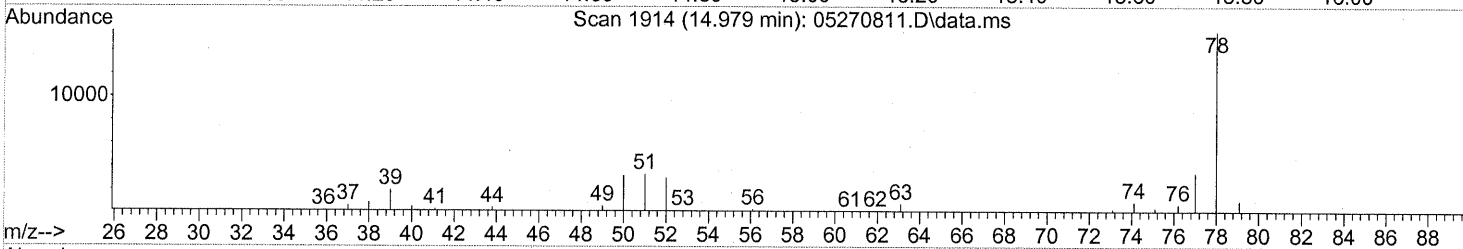
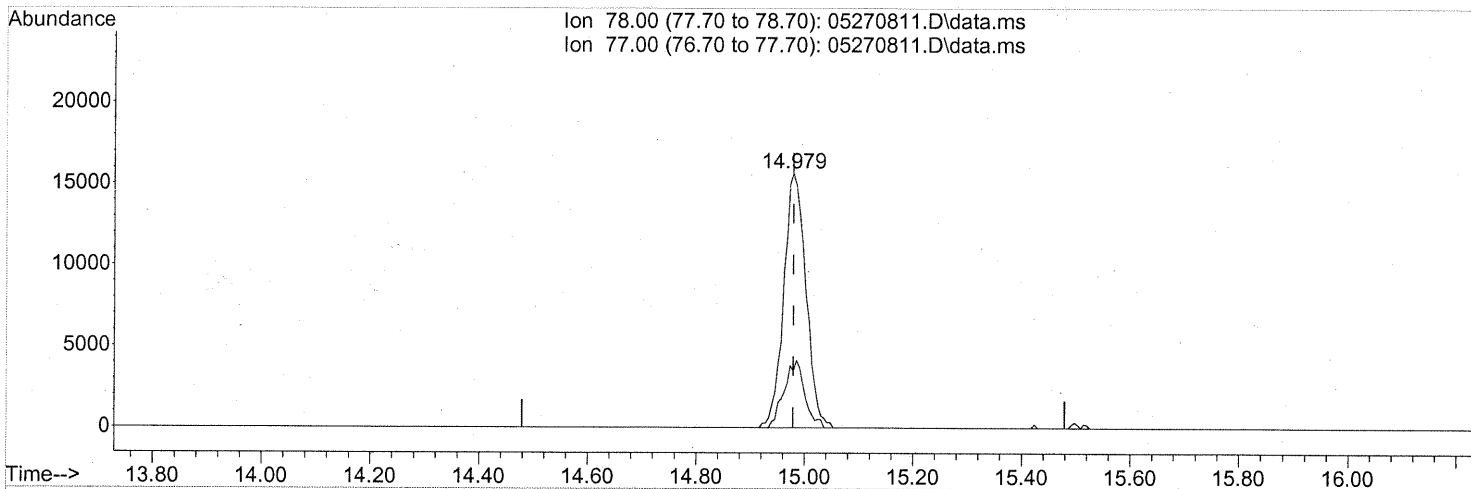
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	7.54
0.00	0.00	0.00
0.00	0.00	0.00

722

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:12:09 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(41) Benzene (T)
 14.979min (-0.000) 0.43ng
 response 44250

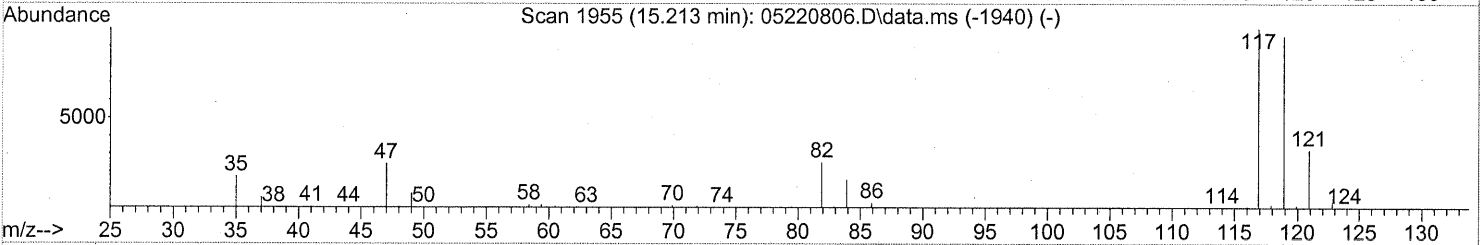
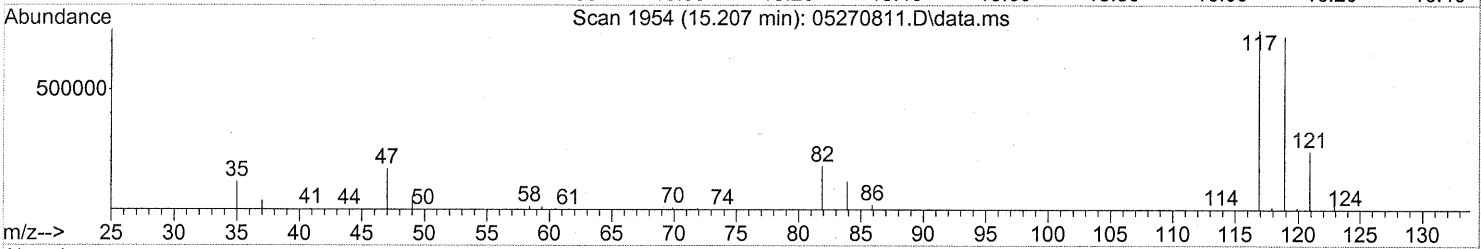
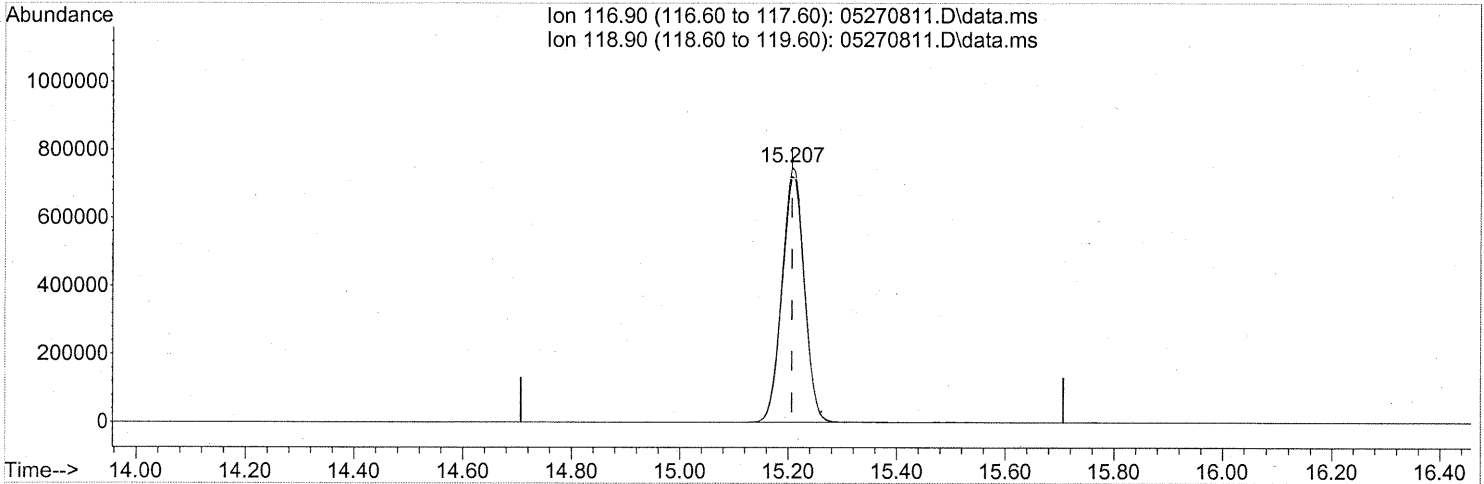
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.53
0.00	0.00	0.00
0.00	0.00	0.00

723

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:12:09 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270811.D\data.ms

(42) Carbon Tetrachloride (T)

15.207min (-0.000) 53.51ng

response 2131784

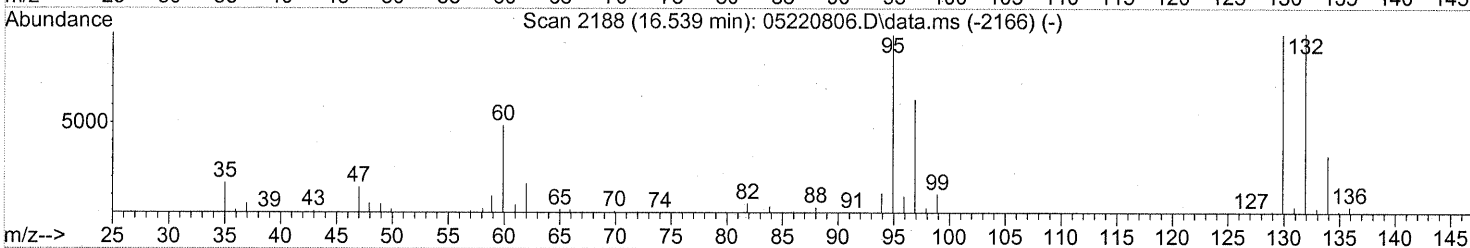
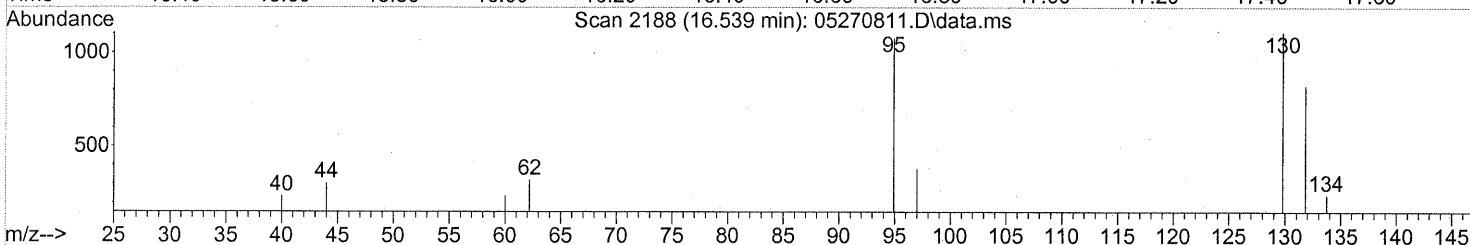
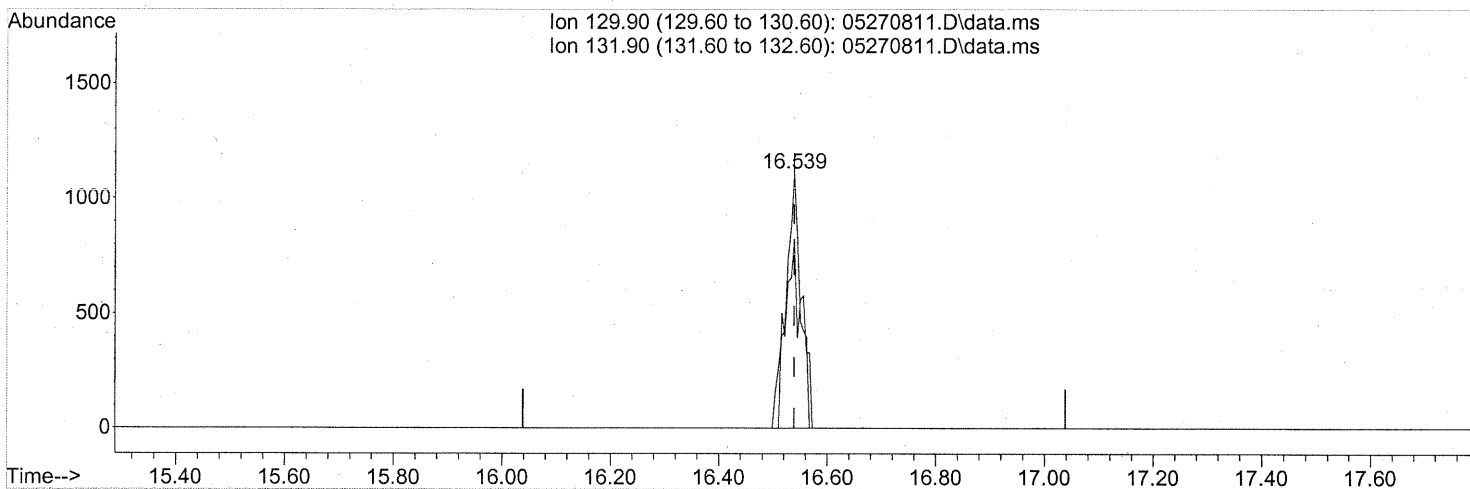
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	96.03
0.00	0.00	0.00
0.00	0.00	0.00

724

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:12:09 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270811.D\data.ms

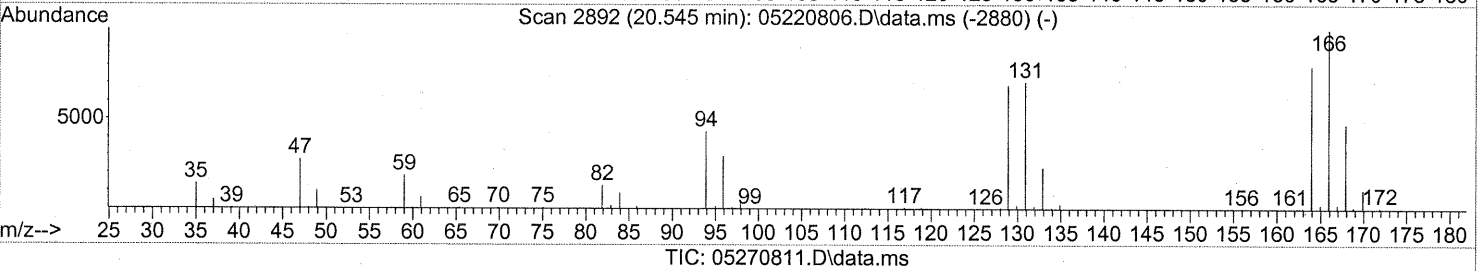
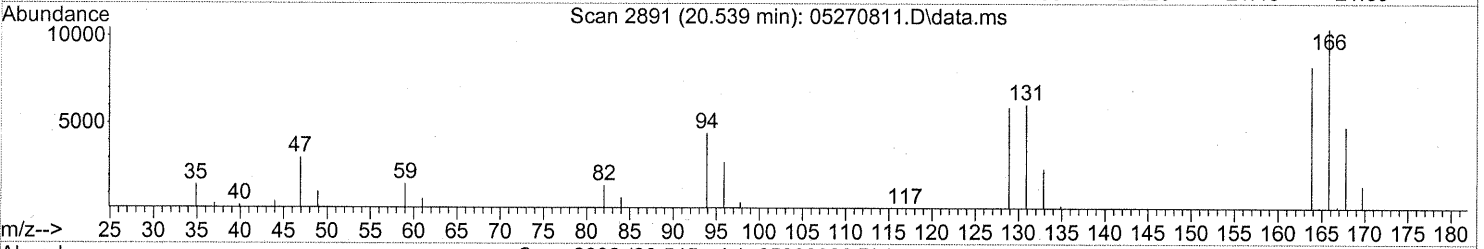
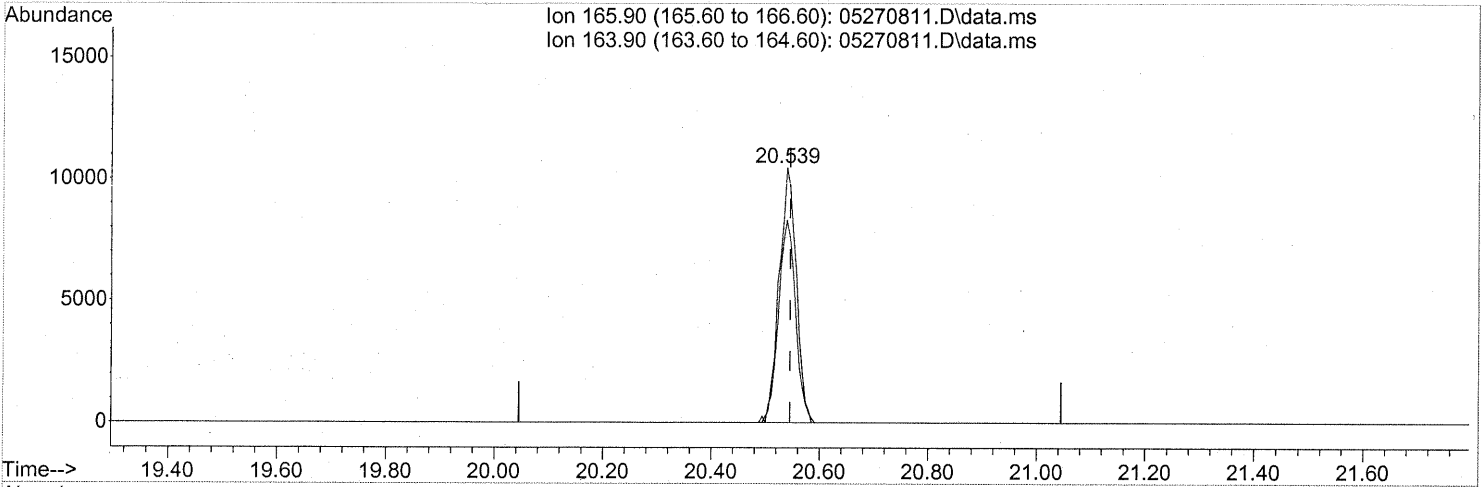
(47) Trichloroethene (T)
 16.539min (-0.000) 0.07ng
 response 2079

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	85.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:12:09 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.539min (-0.006) 0.67ng

response 22799

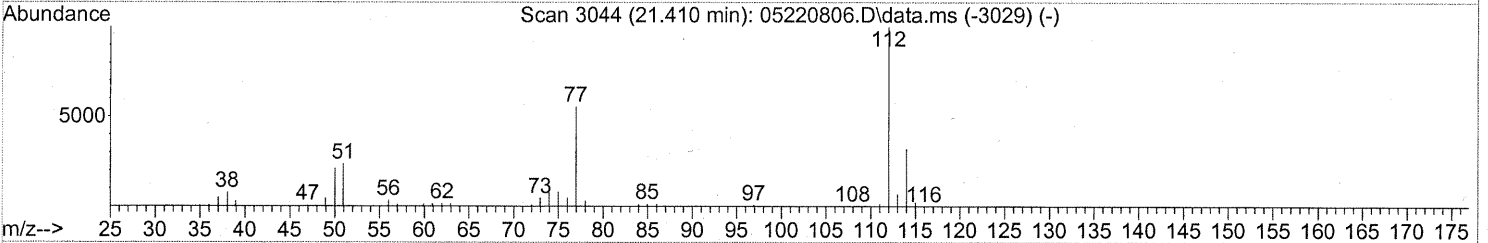
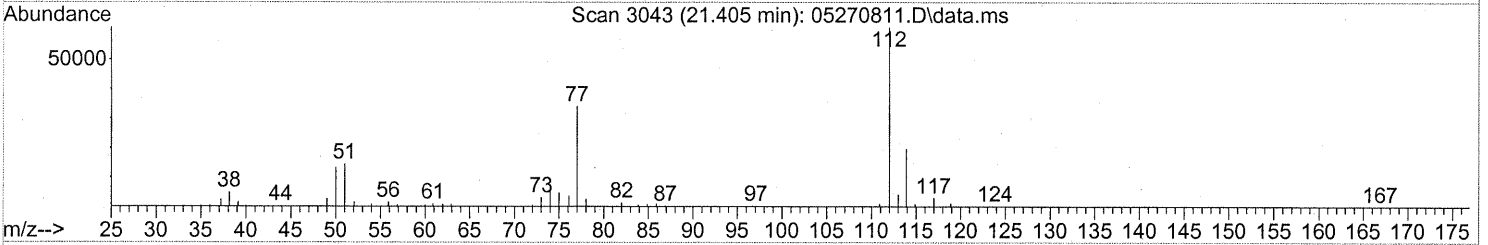
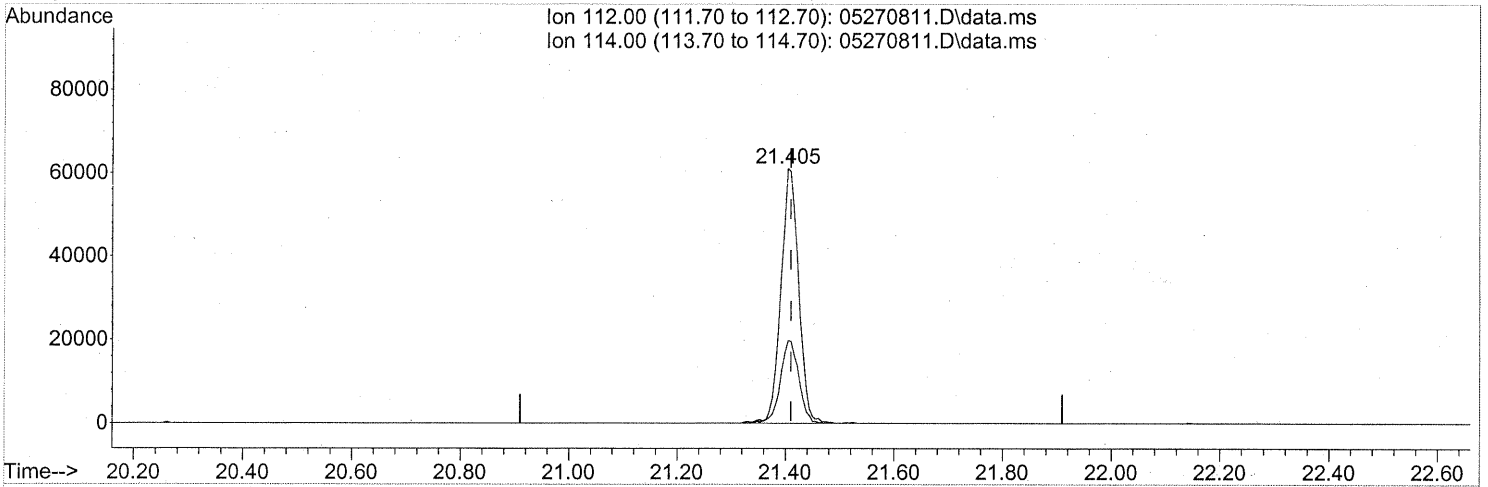
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.51
0.00	0.00	0.00
0.00	0.00	0.00

726

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 16:33
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:12:09 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



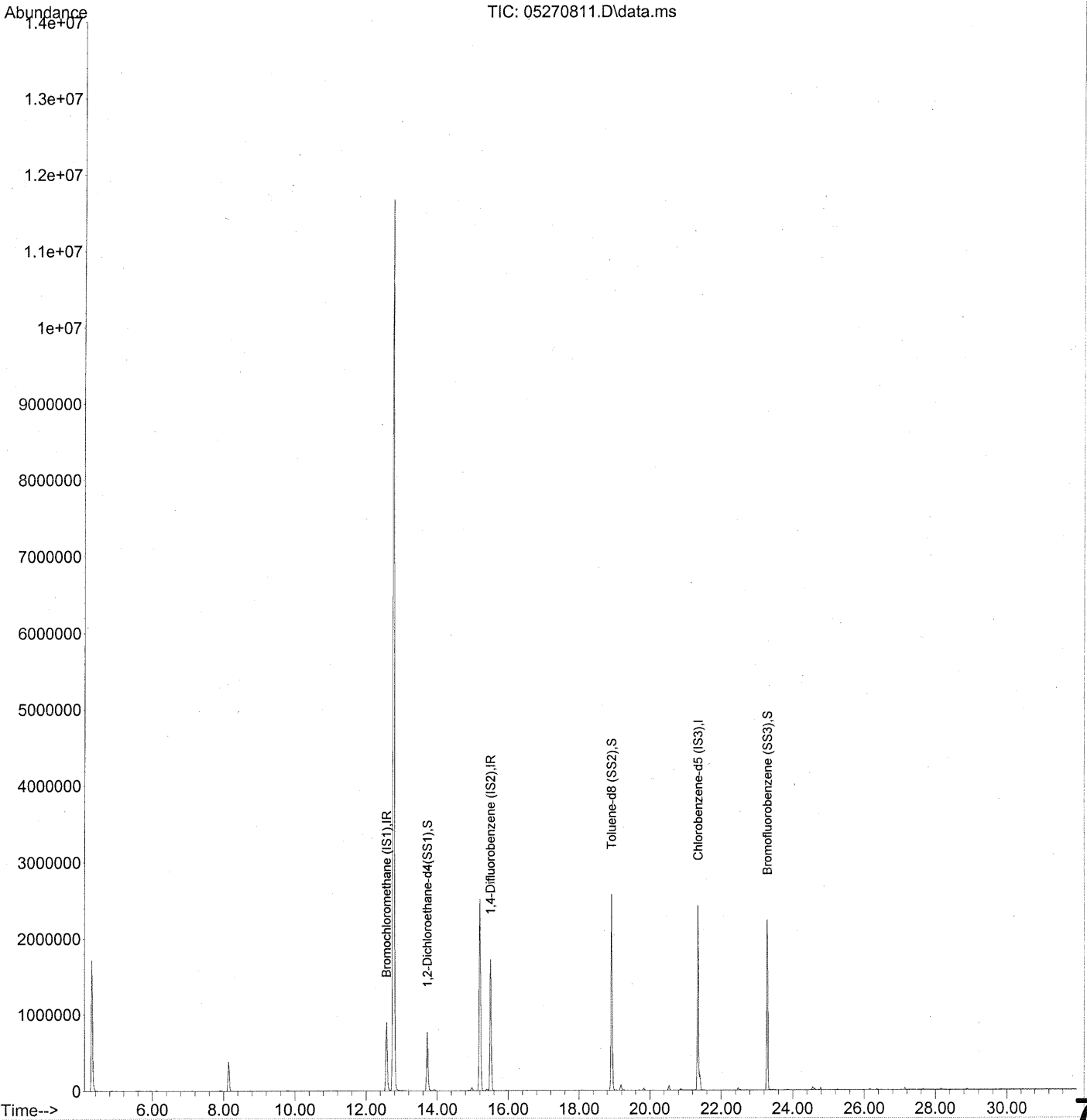
TIC: 05270811.D\data.ms

(65) Chlorobenzene (T)
 21.405min (-0.006) 1.77ng
 response 136404

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	33.47
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 4:33 pm
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:12:43 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270811.D
 Acq On : 27 May 2008 4:33 pm
 Operator : WA
 Sample : P0801483-016 (10ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 4 Sample Multiplier: 1

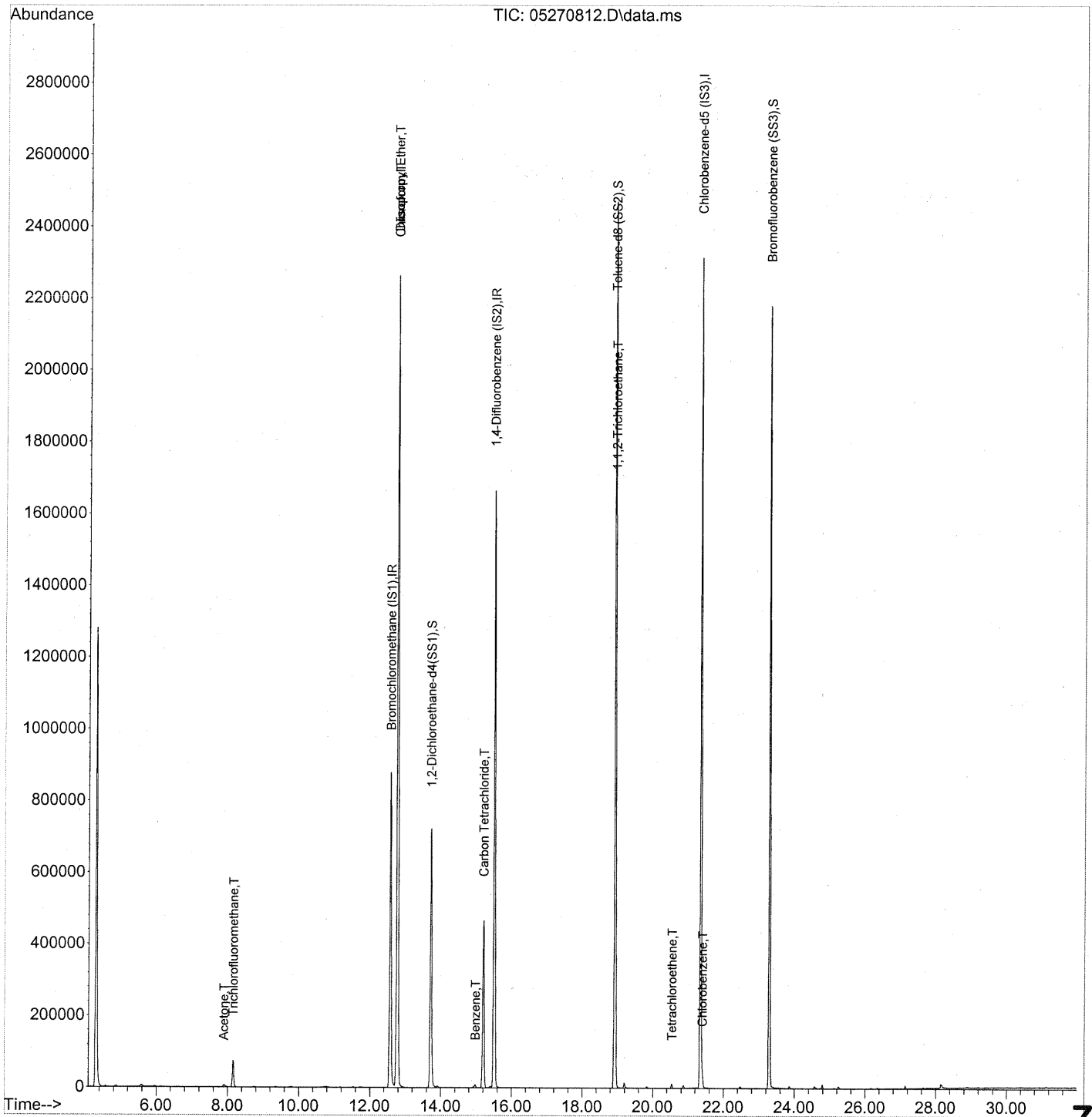
Quant Time: May 31 13:12:43 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	463175	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1975601	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	942315	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	776868	24.207	ng	-0.03
Spiked Amount	25.000		Recovery	=	96.84%	
5) Toluene-d8 (SS2)	18.92	98	2126256	25.124	ng	-0.02
Spiked Amount	25.000		Recovery	=	100.48%	
6) Bromofluorobenzene (SS3)	23.29	174	849288	24.678	ng	0.00
Spiked Amount	25.000		Recovery	=	98.72%	
Target Compounds						
7) tert-Butylbenzene	24.77	119	795		N.D.	Qvalue
8) n-Butylbenzene	0.00	91	0		N.D.	

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

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 17:14
Operator : WA
Sample : P0801483-016 Dil (2ml)
Misc : ENSR SG83B-05D (-4.7, 3.7)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:12:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270812.D
 Acq On : 27 May 2008 17:14
 Operator : WA
 Sample : P0801483-016 Dil (2ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:12:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	457316	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1922557	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	909590	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	761885	24.044	ng	-0.01	
Spiked Amount	25.000		Recovery =	96.16%			✓
57) Toluene-d8 (SS2)	18.92	98	2048156	25.072	ng	0.00	✓
Spiked Amount	25.000		Recovery =	100.28%			
73) Bromofluorobenzene (SS3)	23.29	174	822132	24.749	ng	0.00	✓
Spiked Amount	25.000		Recovery =	99.00%			

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	887	N.D.		
3) Dichlorodifluoromethane	5.00	85	168	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	377	N.D.		
11) Acetonitrile	7.50	41	719	N.D.		
12) Acrolein	7.68	56	121	N.D.		
13) Acetone	7.89	58	4590	0.186	ng	100
14) Trichlorofluoromethane	8.16	101	84319	1.476	ng	98
15) Isopropanol	0.00	45	0	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	9.36	59	225	N.D.		
19) Methylene Chloride	9.37	84	804	N.D.		
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.77	76	3077	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	148	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.74	72	125	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.77	87	242771	11.027	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270812.D
 Acq On : 27 May 2008 17:14
 Operator : WA
 Sample : P0801483-016 Dil (2ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:12:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	2373430	56.915	ng	99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.74	62	199	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.95	56	1146	N.D.		
41) Benzene	14.99	78	9712	0.096	ng	# 52
42) Carbon Tetrachloride	15.21	117	393887	10.160	ng	100
43) Cyclohexane	15.42	84	1898	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	16.53	130	138	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	178713	7.184	ng	# 7
58) Toluene	19.05	91	185	N.D.		
59) 2-Hexanone	19.33	43	56	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	19.83	43	1744	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.55	166	4038	0.123	ng	93
65) Chlorobenzene	21.40	112	26444	0.355	ng	94
66) Ethylbenzene	0.00	91	0	N.D.		
67) m- & p-Xylene	0.00	91	0	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	0.00	91	0	N.D.		
71) n-Nonane	22.94	43	68	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.29	105	1246	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.00	105	67	N.D.		
78) 4-Ethyltoluene	24.00	105	67	N.D.		
79) 1,3,5-Trimethylbenzene	24.00	105	67	N.D.		

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ADA 5/27/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270812.D
 Acq On : 27 May 2008 17:14
 Operator : WA
 Sample : P0801483-016 Dil (2ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 5 Sample Multiplier: 1

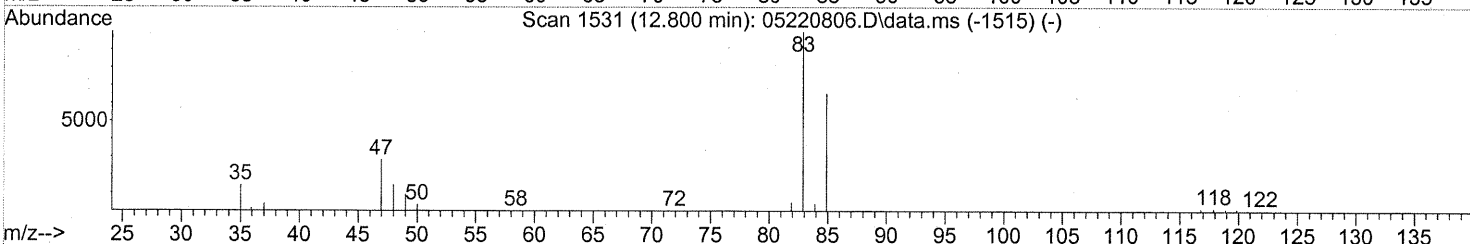
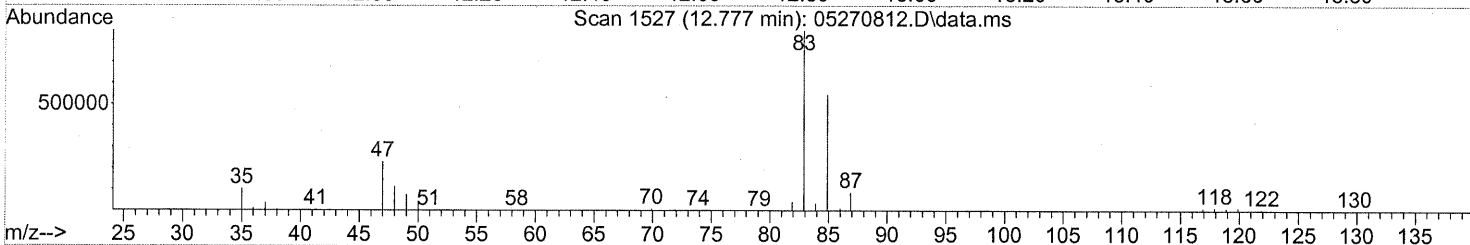
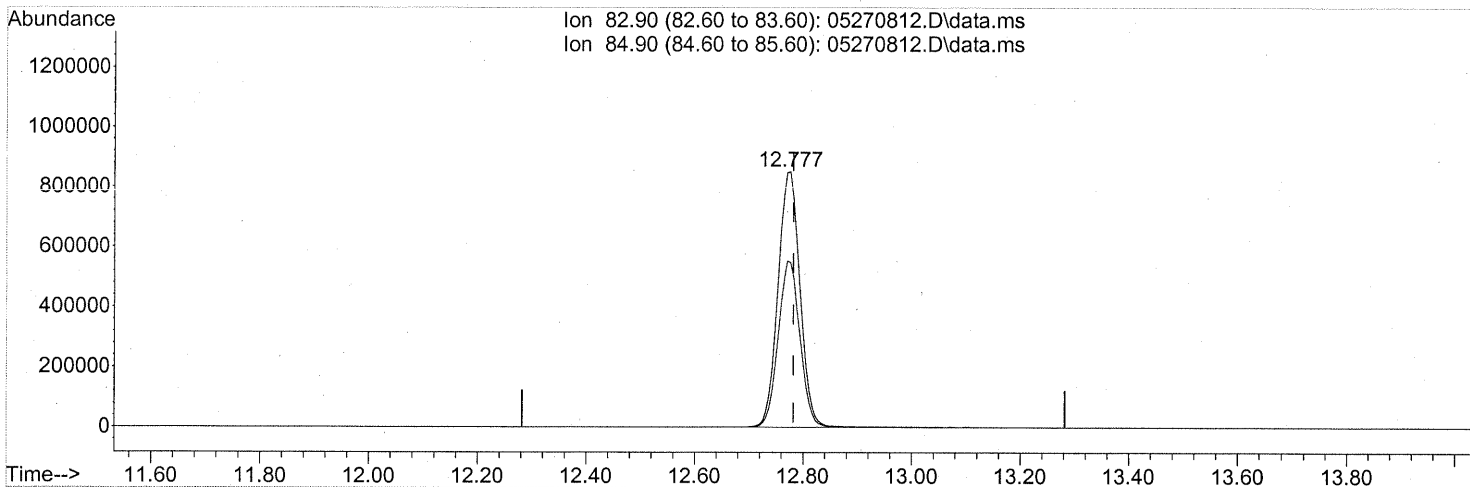
Quant Time: May 28 04:12:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.		
83) n-Decane	24.76	57	68	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	25.16	146	182	N.D.		
86) 1,4-Dichlorobenzene	25.16	146	182	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) p-Isopropyltoluene	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	25.16	146	182	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.50	57	68	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.80	128	1250	N.D.		
96) n-Dodecane	27.74	57	72	N.D.		
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

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

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270812.D
 Acq On : 27 May 2008 17:14
 Operator : WA
 Sample : P0801483-016 Dil (2ml)
 Misc : ENSR SG83B-05D (-4.7, 3.7)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:12:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270812.D\data.ms

(32) Chloroform (T)
 12.777min (-0.006) 56.91ng
 response 2373430

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.20
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG83B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-017

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00955

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 0.010 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -4.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.81

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	91	9.1	ND	18	1.8	
74-87-3	Chloromethane	ND	18	9.1	ND	8.8	4.4	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	91	9.1	ND	13	1.3	
75-01-4	Vinyl Chloride	ND	18	9.1	ND	7.1	3.5	
74-83-9	Bromomethane	ND	18	9.1	ND	4.7	2.3	
75-00-3	Chloroethane	ND	18	9.1	ND	6.9	3.4	
64-17-5	Ethanol	32	910	9.1	17	480	4.8	J
67-64-1	Acetone	49	910	13	21	380	5.6	J, B
75-69-4	Trichlorofluoromethane	1,300	18	9.1	230	3.2	1.6	
107-13-1	Acrylonitrile	ND	91	13	ND	42	5.8	
75-35-4	1,1-Dichloroethene	ND	18	9.1	ND	4.6	2.3	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	91	13	ND	30	4.4	
75-09-2	Methylene Chloride	10	91	9.1	2.9	26	2.6	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	18	9.1	ND	5.8	2.9	
76-13-1	Trichlorotrifluoroethane	ND	18	10	ND	2.4	1.3	
75-15-0	Carbon Disulfide	37	91	22	12	29	7.0	J
156-60-5	trans-1,2-Dichloroethene	ND	18	9.1	ND	4.6	2.3	
75-34-3	1,1-Dichloroethane	9.4	18	9.1	2.3	4.5	2.2	J
1634-04-4	Methyl tert-Butyl Ether	ND	18	9.1	ND	5.0	2.5	
108-05-4	Vinyl Acetate	ND	910	29	ND	260	8.2	
78-93-3	2-Butanone (MEK)	16	91	9.1	5.4	31	3.1	J
156-59-2	cis-1,2-Dichloroethene	ND	18	9.1	ND	4.6	2.3	
108-20-3	Diisopropyl Ether	ND	91	11	ND	22	2.6	
67-66-3	Chloroform	46,000	18	11	9,400	3.7	2.2	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA

Date: 6/19/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG83B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-017

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00955

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 0.010 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -4.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.81

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	91	9.2	ND	22	2.2	
107-06-2	1,2-Dichloroethane	ND	18	9.1	ND	4.5	2.2	
71-55-6	1,1,1-Trichloroethane	ND	18	9.1	ND	3.3	1.7	
71-43-2	Benzene	80	18	9.1	25	5.7	2.8	
56-23-5	Carbon Tetrachloride	9,700	18	9.1	1,500	2.9	1.4	
994-05-8	tert-Amyl Methyl Ether	ND	91	9.1	ND	22	2.2	
78-87-5	1,2-Dichloropropane	ND	18	9.1	ND	3.9	2.0	
75-27-4	Bromodichloromethane	ND	18	9.1	ND	2.7	1.4	
79-01-6	Trichloroethene	13	18	9.1	2.5	3.4	1.7	J
123-91-1	1,4-Dioxane	ND	91	11	ND	25	3.1	
80-62-6	Methyl Methacrylate	ND	91	14	ND	22	3.3	
142-82-5	n-Heptane	ND	91	12	ND	22	2.8	
10061-01-5	cis-1,3-Dichloropropene	ND	91	9.4	ND	20	2.1	
108-10-1	4-Methyl-2-pentanone	ND	91	10	ND	22	2.5	
10061-02-6	trans-1,3-Dichloropropene	ND	91	11	ND	20	2.5	
79-00-5	1,1,2-Trichloroethane	ND	18	9.1	ND	3.3	1.7	
108-88-3	Toluene	ND	91	9.1	ND	24	2.4	
591-78-6	2-Hexanone	ND	91	14	ND	22	3.4	
124-48-1	Dibromochloromethane	ND	18	12	ND	2.1	1.4	
106-93-4	1,2-Dibromoethane	ND	18	9.8	ND	2.4	1.3	
111-65-9	n-Octane	ND	91	9.1	ND	19	1.9	
127-18-4	Tetrachloroethene	130	18	9.1	19	2.7	1.3	
108-90-7	Chlorobenzene	340	18	9.2	73	3.9	2.0	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG83B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-017

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00955

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 0.010 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -4.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.81

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	91	11	ND	21	2.6	
179601-23-1	m,p-Xylenes	ND	91	24	ND	21	5.4	
75-25-2	Bromoform	ND	91	14	ND	8.8	1.3	
100-42-5	Styrene	ND	91	14	ND	21	3.2	
95-47-6	o-Xylene	ND	91	11	ND	21	2.6	
79-34-5	1,1,2,2-Tetrachloroethane	ND	18	12	ND	2.6	1.7	
98-82-8	Cumene	ND	91	10	ND	18	2.1	
103-65-1	n-Propylbenzene	ND	91	9.4	ND	18	1.9	
622-96-8	4-Ethyltoluene	ND	91	10	ND	18	2.1	
108-67-8	1,3,5-Trimethylbenzene	ND	91	11	ND	18	2.2	
98-83-9	alpha-Methylstyrene	ND	91	13	ND	19	2.7	
95-63-6	1,2,4-Trimethylbenzene	ND	91	12	ND	18	2.5	
100-44-7	Benzyl Chloride	ND	18	16	ND	3.5	3.0	
541-73-1	1,3-Dichlorobenzene	ND	18	11	ND	3.0	1.9	
106-46-7	1,4-Dichlorobenzene	12	18	10	1.9	3.0	1.7	J
135-98-8	sec-Butylbenzene	ND	91	10	ND	16	1.9	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	91	12	ND	16	2.1	
95-50-1	1,2-Dichlorobenzene	ND	18	12	ND	3.0	2.0	
96-12-8	1,2-Dibromo-3-chloropropane	ND	91	14	ND	9.4	1.4	
120-82-1	1,2,4-Trichlorobenzene	ND	18	14	ND	2.4	1.9	
91-20-3	Naphthalene	20	36	13	3.8	6.9	2.6	J
87-68-3	Hexachlorobutadiene	ND	18	16	ND	1.7	1.5	
98-06-6	tert-Butylbenzene	ND	36	9.1	ND	6.6	1.6	
104-51-8	n-Butylbenzene	ND	36	9.1	ND	6.6	1.6	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

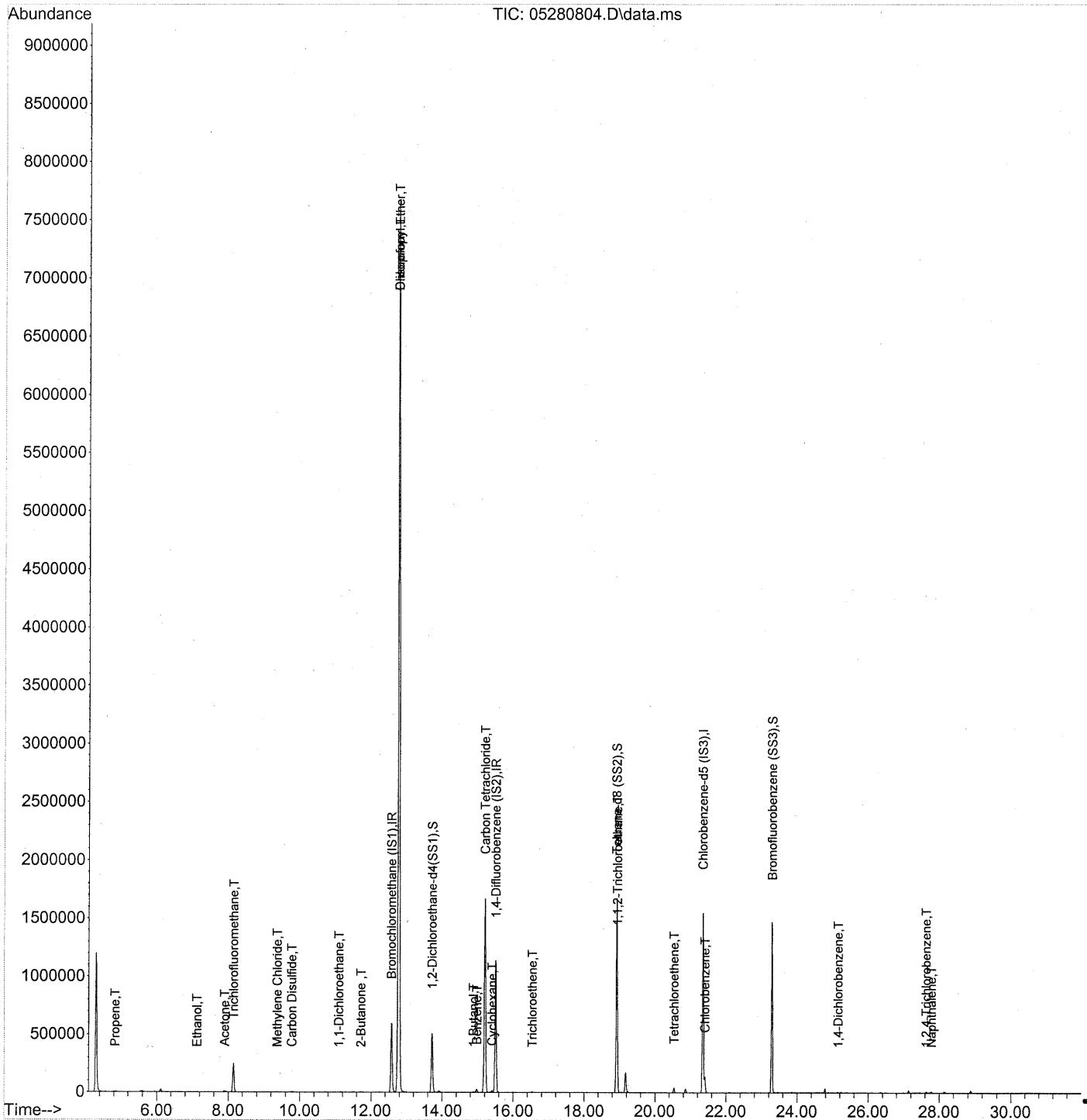
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08 **737**

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280804.D
Acq On : 28 May 2008 9:32
Operator : WA
Sample : P0801483-017 (10ml)
Misc : ENSR SG83B-05 (-4.6, 3.5) ⁶ *DA 6/3/08*
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:44:00 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5) *6*
 ALS Vial : 4 Sample Multiplier: 1 *RA 6/3/08*

Quant Time: May 31 13:44:00 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	314404	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1331644	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	613875	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	510130	23.417	ng	0.00
Spiked Amount	25.000		Recovery =	93.68%		✓
57) Toluene-d8 (SS2)	18.92	98	1393176	25.270	ng	0.00
Spiked Amount	25.000		Recovery =	101.08%		✓
73) Bromofluorobenzene (SS3)	23.29	174	562802	25.103	ng	0.00
Spiked Amount	25.000		Recovery =	100.40%		✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	1756	0.071	ng	# 52
3) Dichlorodifluoromethane	4.98	85	830	N.D.		✓
4) Chloromethane	5.33	50	151	N.D.		✓
5) Freon 114	5.54	135	320	N.D.		✓
6) Vinyl Chloride	5.74	62	52	N.D.		✓
7) 1,3-Butadiene	6.04	54	53	N.D.		✓
8) Bromomethane	6.51	94	118	N.D.		✓
9) Chloroethane	0.00	64	0	N.D.		✓
10) Ethanol	7.13	45	2931m	0.177	ng	
11) Acetonitrile	7.46	41	524	N.D.		
12) Acrolein	7.68	56	413	N.D.		
13) Acetone	7.90	58	4555	0.269	ng	# 23
14) Trichlorofluoromethane	8.15	101	283393	7.217	ng	# 99
15) Isopropanol	8.35	45	1245	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		✓
17) 1,1-Dichloroethene	9.17	96	194	N.D.		✓
18) tert-Butanol	9.33	59	673	N.D.		✓
19) Methylene Chloride	9.38	84	1042	0.055	ng	# 1
20) Allyl Chloride	9.54	41	70	N.D.		✓
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		✓
22) Carbon Disulfide	9.78	76	14646	0.204	ng	# 99
23) trans-1,2-Dichloroethene	10.81	61	70	N.D.		✓
24) 1,1-Dichloroethane	11.10	63	1706	0.052	ng	# 46
25) Methyl tert-Butyl Ether	11.23	73	525	N.D.		✓
26) Vinyl Acetate	0.00	86	0	N.D.		✓
27) 2-Butanone	11.72	72	1082	0.088	ng	# 48
28) cis-1,2-Dichloroethene	12.34	61	53	N.D.		✓
29) Diisopropyl Ether	12.78	87	887167	58.611	ng NR	# 1
30) Ethyl Acetate	12.75	61	72	N.D.		
31) n-Hexane	12.69	57	579	N.D.		

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RA 5/31/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml) ⁶
 Misc : ENSR SG83B-05 (-4.6, 3.5) ^{10A 6/3/08}
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:44:00 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	8221990	286.782 ng	see dil	99
34) Tetrahydrofuran	13.41	72	53	N.D.		
35) Ethyl tert-Butyl Ether	13.50	87	52	N.D. ✓		
36) 1,2-Dichloroethane	13.87	62	85	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	157	N.D. ✓		
39) Isopropyl Acetate	14.97	61	62	N.D.		
40) 1-Butanol	14.89	56	4104	0.224 ng		98
41) Benzene	14.99	78	30939	0.444 ng		96
42) Carbon Tetrachloride	15.21	117	1443068	53.741 ng		100
43) Cyclohexane	15.41	84	7245	0.267 ng	#	78
44) tert-Amyl Methyl Ether	15.88	73	217	N.D. ✓		
45) 1,2-Dichloropropane	0.00	63	0	N.D. ✓		
46) Bromodichloromethane	16.45	83	1036	N.D. ✓		
47) Trichloroethene	16.54	130	1589	0.074 ng		99
48) 1,4-Dioxane	0.00	88	0	N.D. ✓		
49) Isooctane	16.61	57	664	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D. ✓		
51) n-Heptane	16.98	71	83	N.D. ✓		
52) cis-1,3-Dichloropropene	17.73	75	165	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	70	N.D. ✓		
54) trans-1,3-Dichloropropene	18.44	75	63	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	121612	7.058 ng	NR#	8
58) Toluene	19.05	91	1922	N.D. ✓		
59) 2-Hexanone	19.38	43	1509	N.D. ✓		
60) Dibromochloromethane	0.00	129	0	N.D. ✓		
61) 1,2-Dibromoethane	19.94	107	149	N.D. ✓		
62) Butyl Acetate	20.20	43	824	N.D.		
63) n-Octane	20.08	57	208	N.D. ✓		
64) Tetrachloroethene	20.55	166	15518	0.700 ng		97
65) Chlorobenzene	21.41	112	93698	1.865 ng		100
66) Ethylbenzene	21.89	91	1904	N.D. ✓		
67) m- & p-Xylene	22.13	91	2737	N.D. ✓		
68) Bromoform	22.21	173	57	N.D. ✓		
69) Styrene	22.57	104	1034	N.D. ✓		
70) o-Xylene	22.71	91	2352	N.D. ✓		
71) n-Nonane	22.98	43	644	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.69	83	478	N.D. ✓		
74) Cumene	23.46	105	2055	N.D. ✓		
75) alpha-Pinene	23.95	93	325	N.D.		
76) n-Propylbenzene	24.10	91	1591	N.D. ✓		
77) 3-Ethyltoluene	24.23	105	2060	N.D.		
78) 4-Ethyltoluene	24.28	105	1907	N.D. ✓		
79) 1,3,5-Trimethylbenzene	24.36	105	2095	N.D. ✓		

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Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5) ⁶ *107 6/3/08*
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:44:00 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

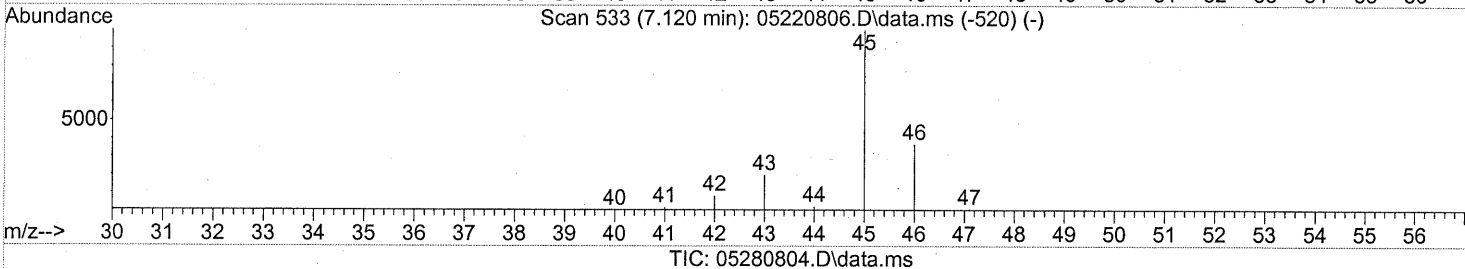
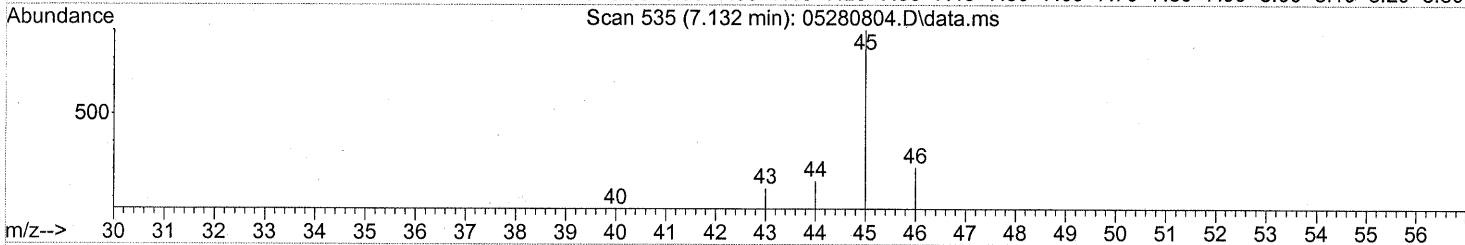
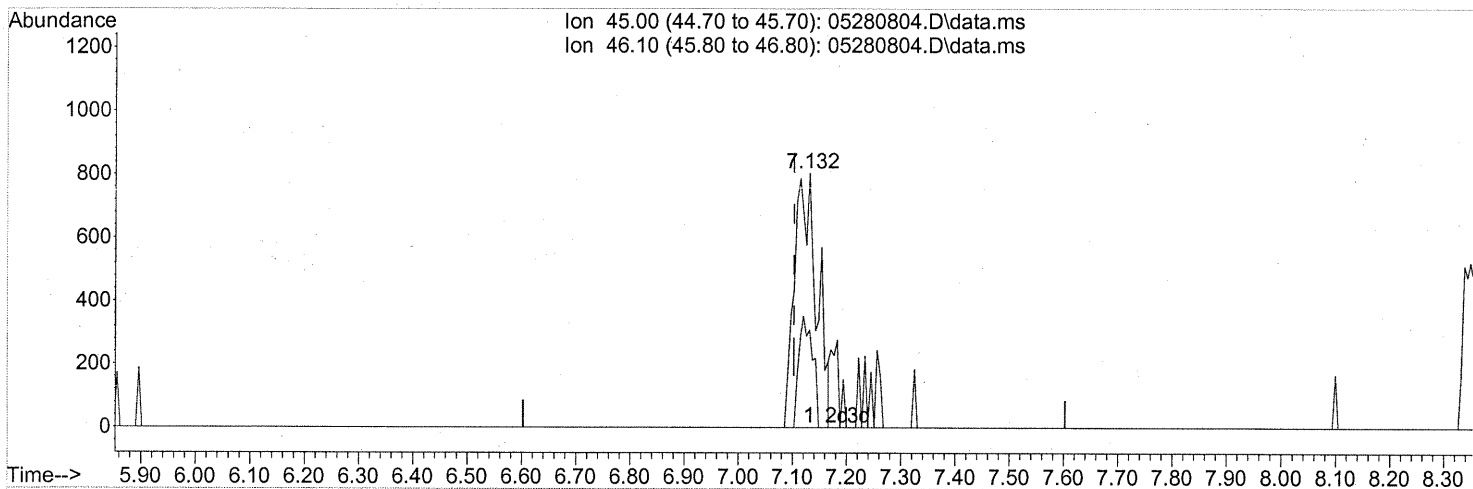
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.57	118	576	N.D.	✓	
81) 2-Ethyltoluene	24.60	105	1658	N.D.		
82) 1,2,4-Trimethylbenzene	24.87	105	2352	N.D.	✓	
83) n-Decane	24.98	57	456	N.D.		
84) Benzyl Chloride	25.05	91	1853	N.D.	✓	
85) 1,3-Dichlorobenzene	25.09	146	1767	N.D.	✓	
86) 1,4-Dichlorobenzene	25.16	146	2905	0.064	ng	93
87) sec-Butylbenzene	25.21	105	1615	N.D.	✓	
88) p-Isopropyltoluene	25.40	119	1379	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.40	105	1222	N.D.		
90) 1,2-Dichlorobenzene	25.58	146	1207	N.D.	✓	
91) d-Limonene	25.58	68	333	N.D.		
92) 1,2-Dibromo-3-Chloropr...	26.11	157	430	N.D.	✓	
93) n-Undecane	26.51	57	882	N.D.		
94) 1,2,4-Trichlorobenzene	27.63	180	1802	0.055	ng	95
95) Naphthalene	27.78	128	10977	0.110	ng	94
96) n-Dodecane	27.74	57	1393	N.D.		
97) Hexachloro-1,3-butadiene	28.19	225	479	N.D.	✓	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



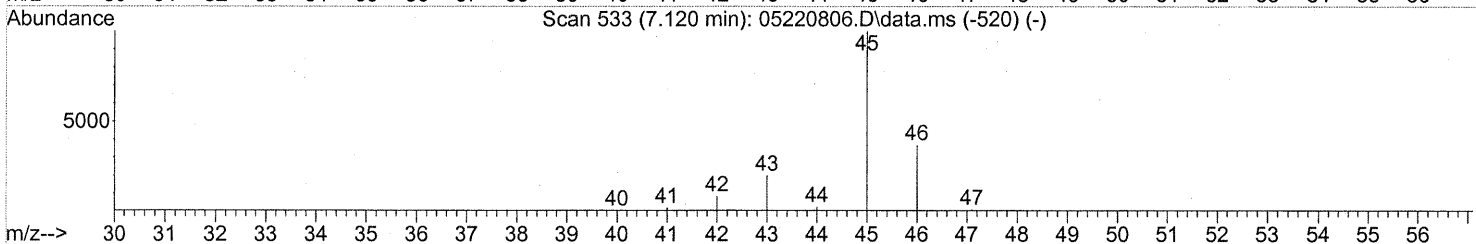
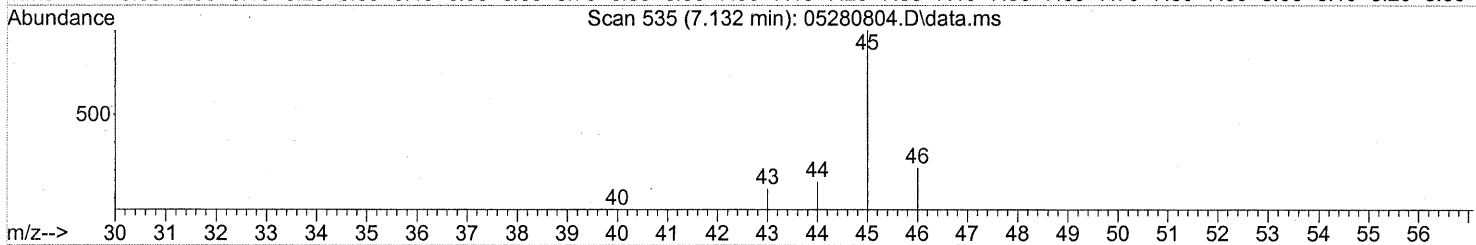
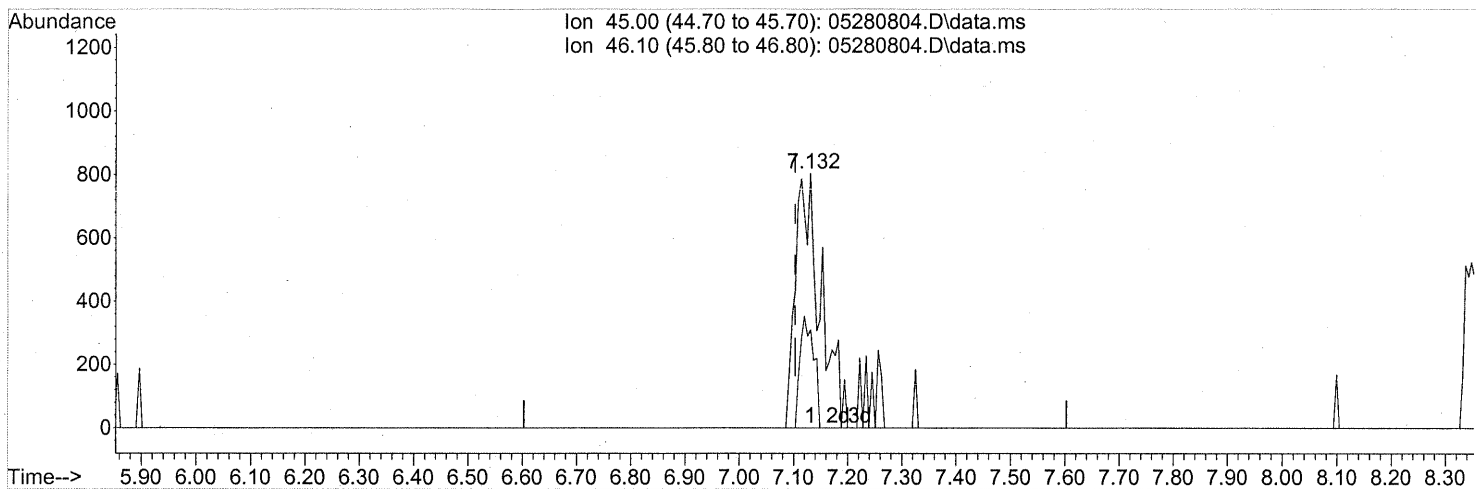
(10) Ethanol (T)
 7.132min (+0.028) 0.14ng
 response 2274

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	27.44
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.132min (+0.028) 0.18ng m

response 2931

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	21.29
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

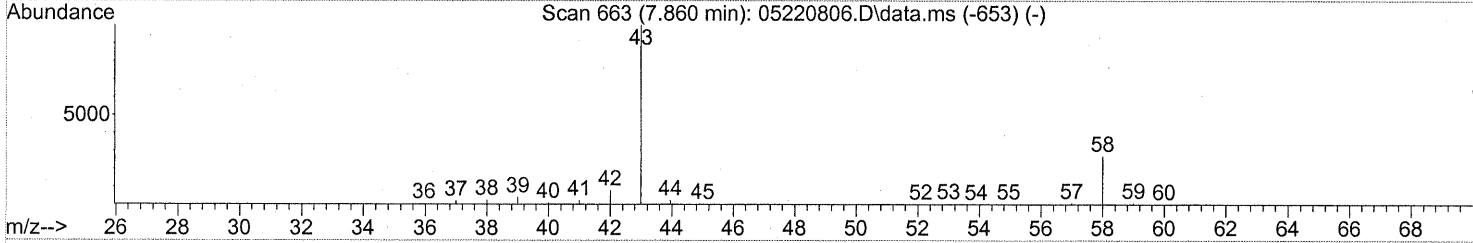
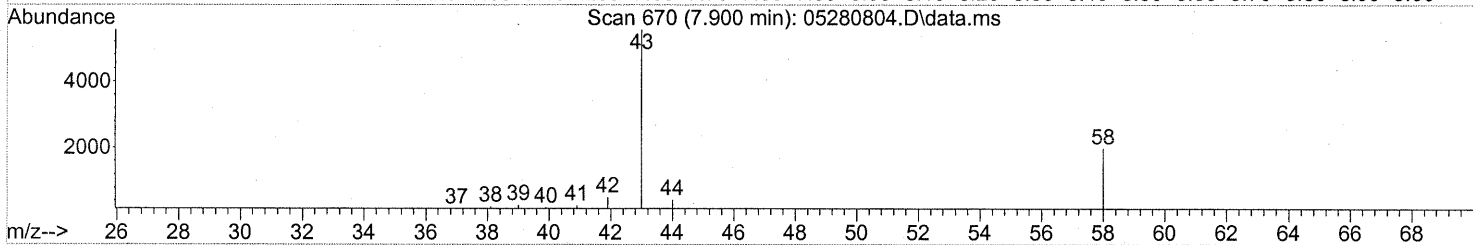
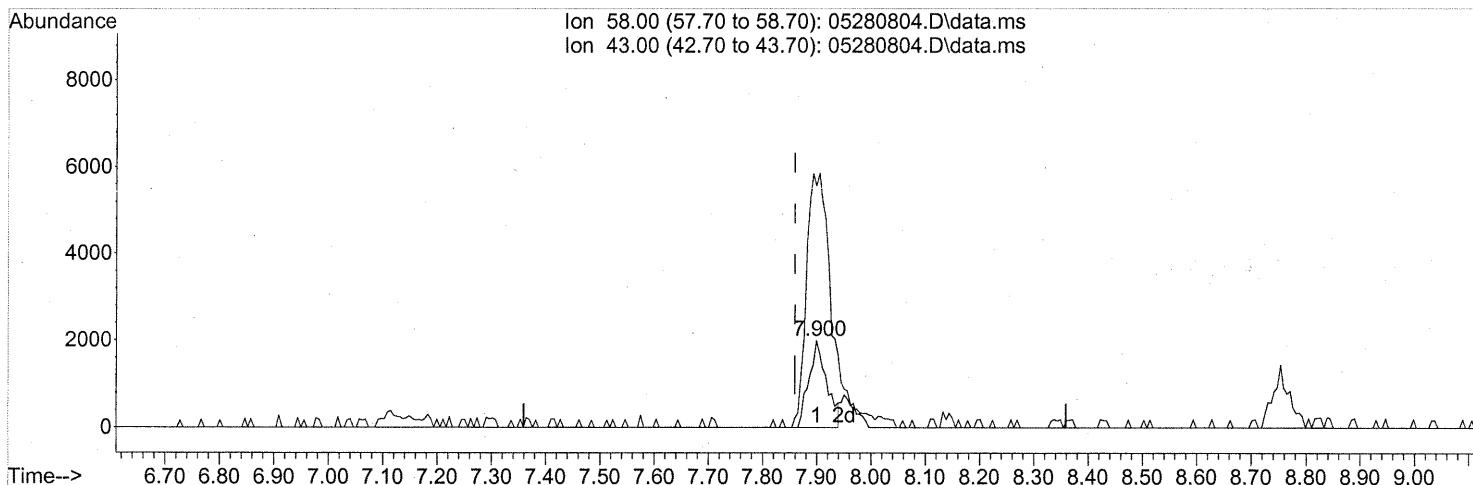
WA 5/31/08

R. 06/02/08

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280804.D\data.ms

(13) Acetone (T)

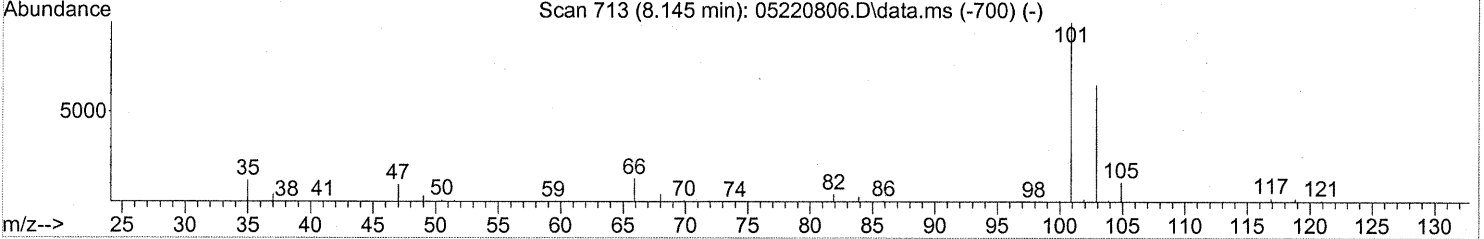
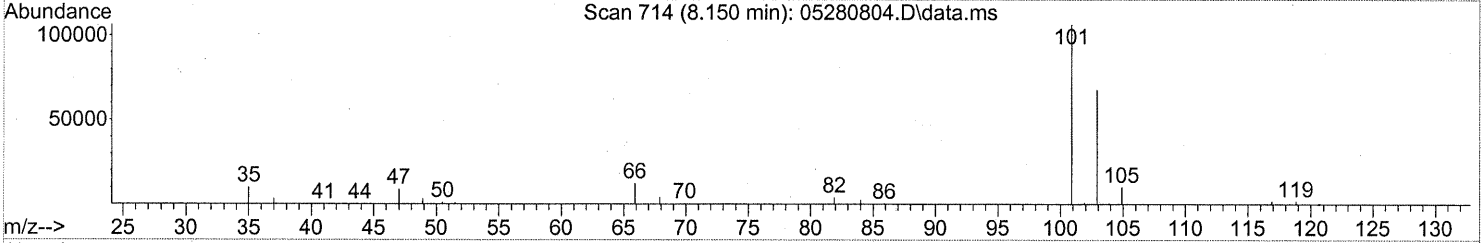
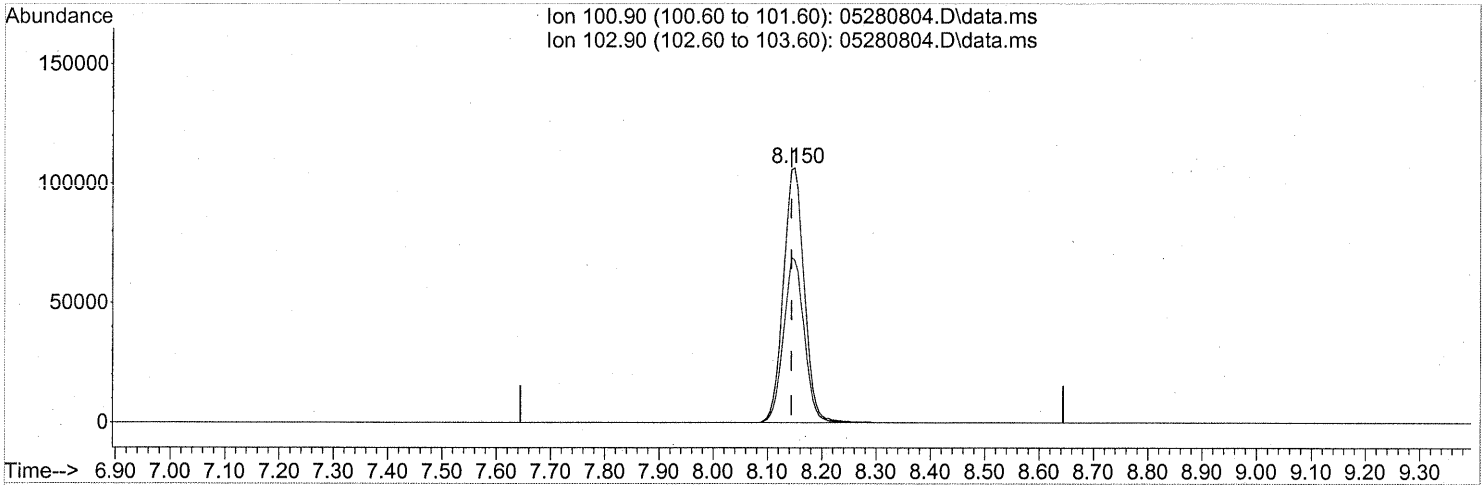
7.900min (+0.040) 0.27ng

response 4555

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	428.34#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280804.D\data.ms

(14) Trichlorofluoromethane (T)

8.150min (+0.006) 7.22ng

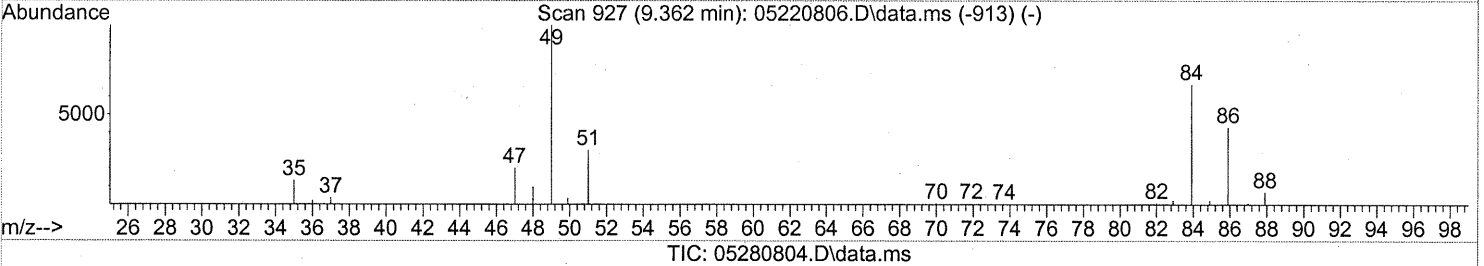
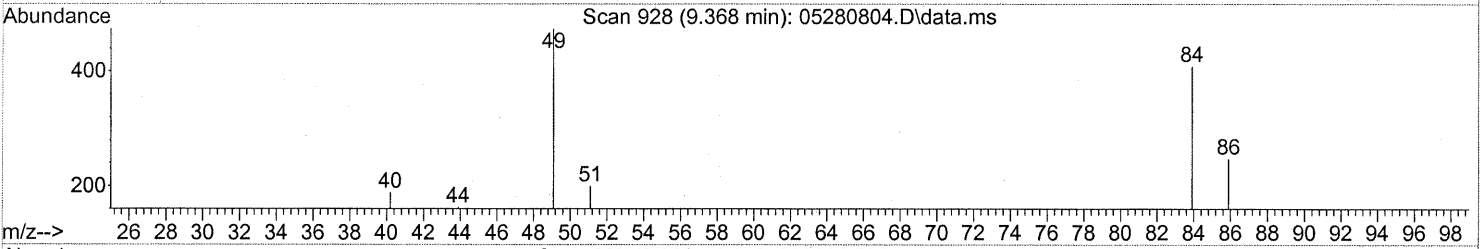
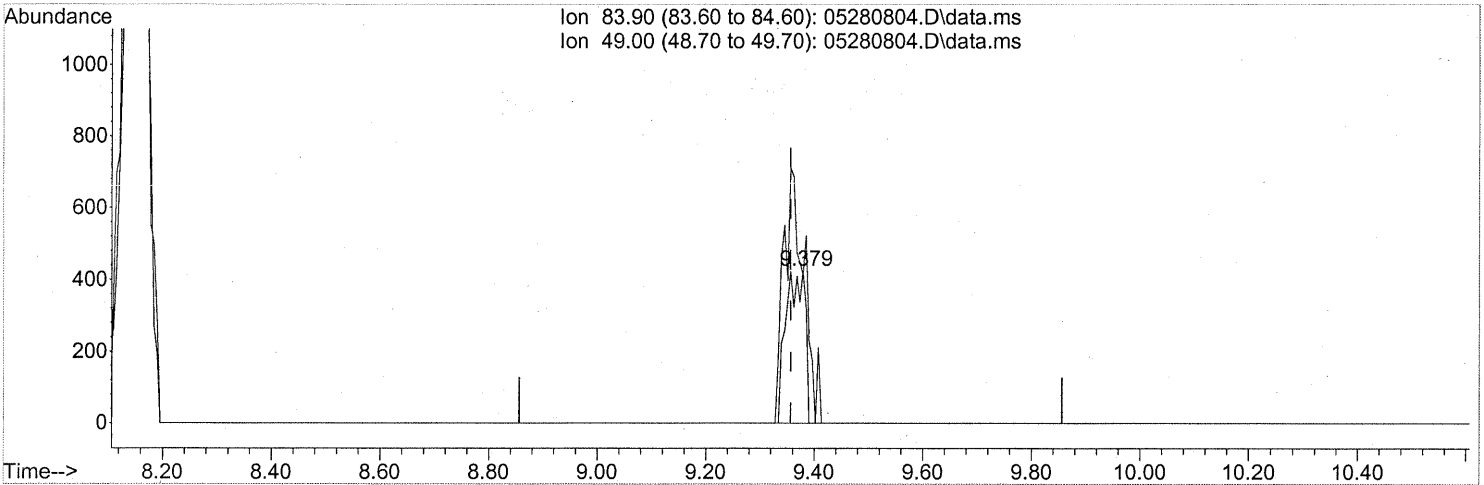
response 283393

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.379min (+0.023) 0.06ng

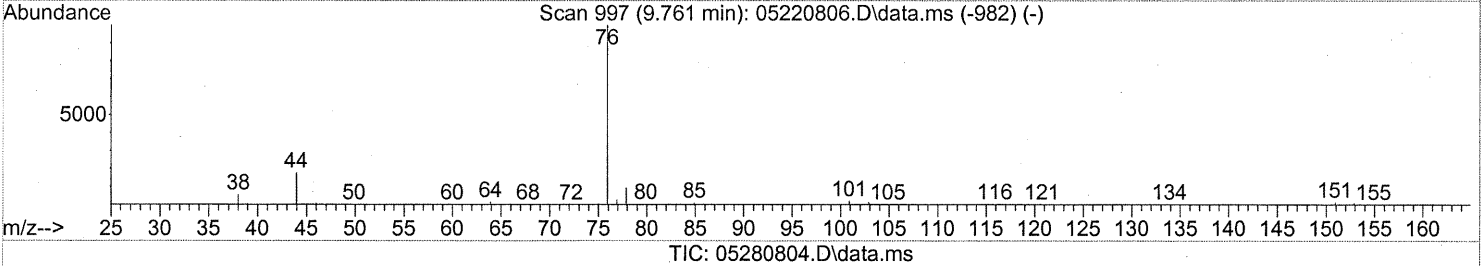
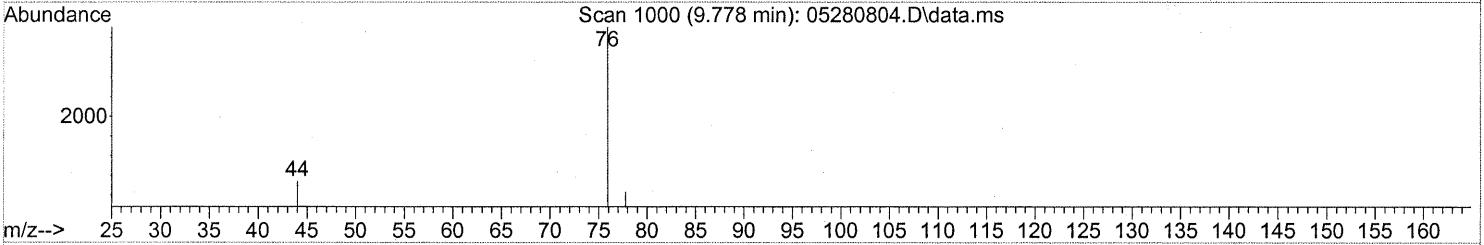
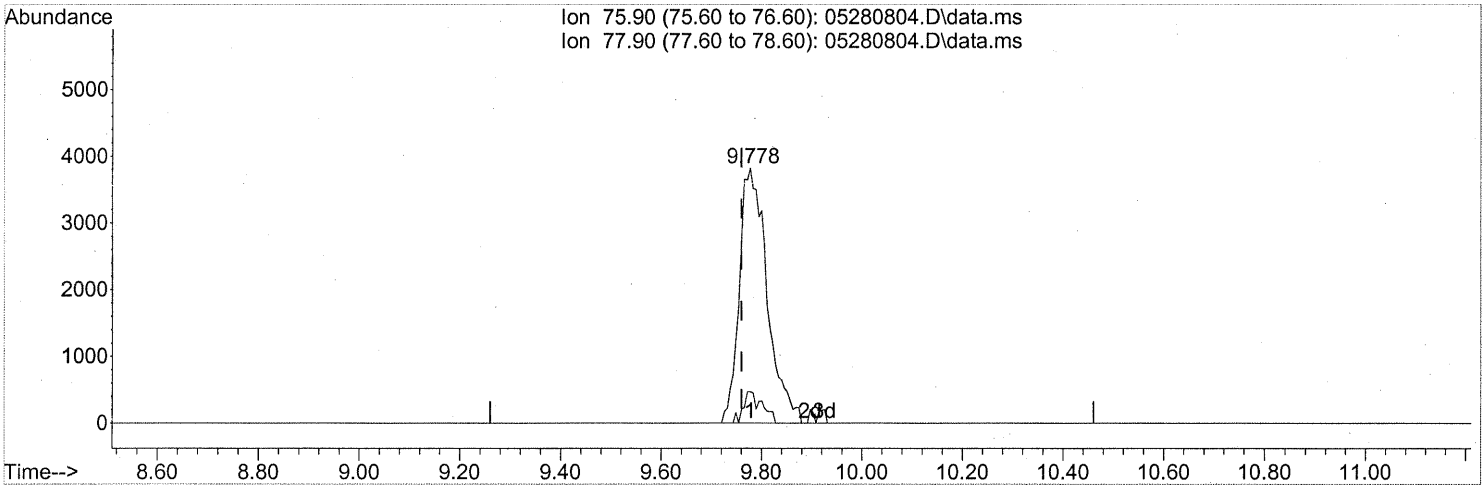
response 1042

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.778min (+0.017) 0.20ng

response 14646

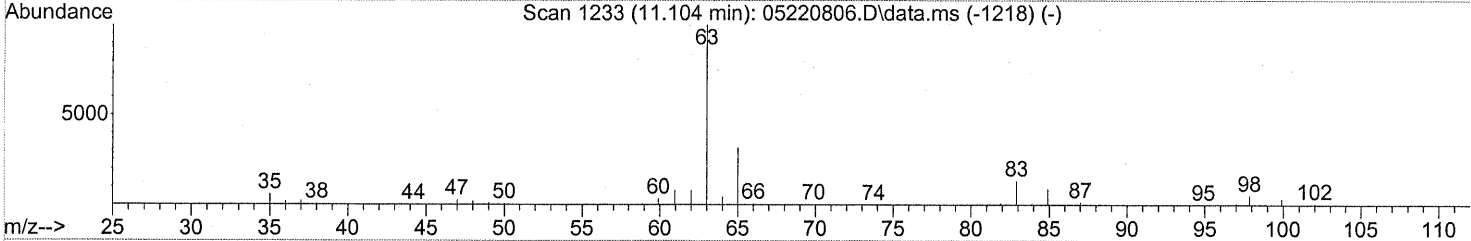
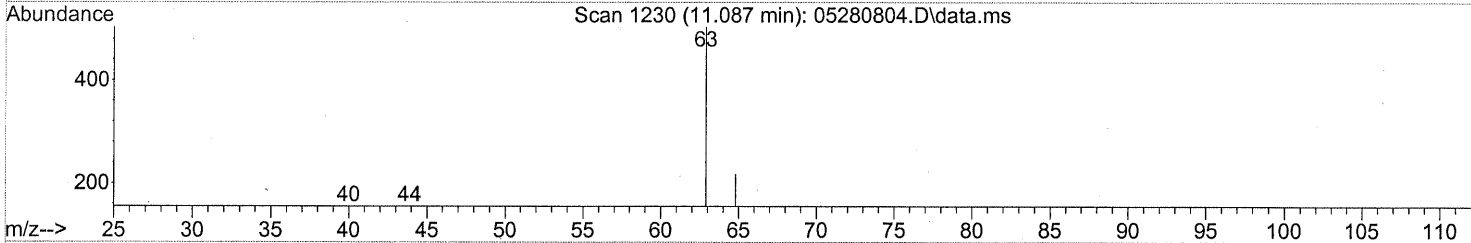
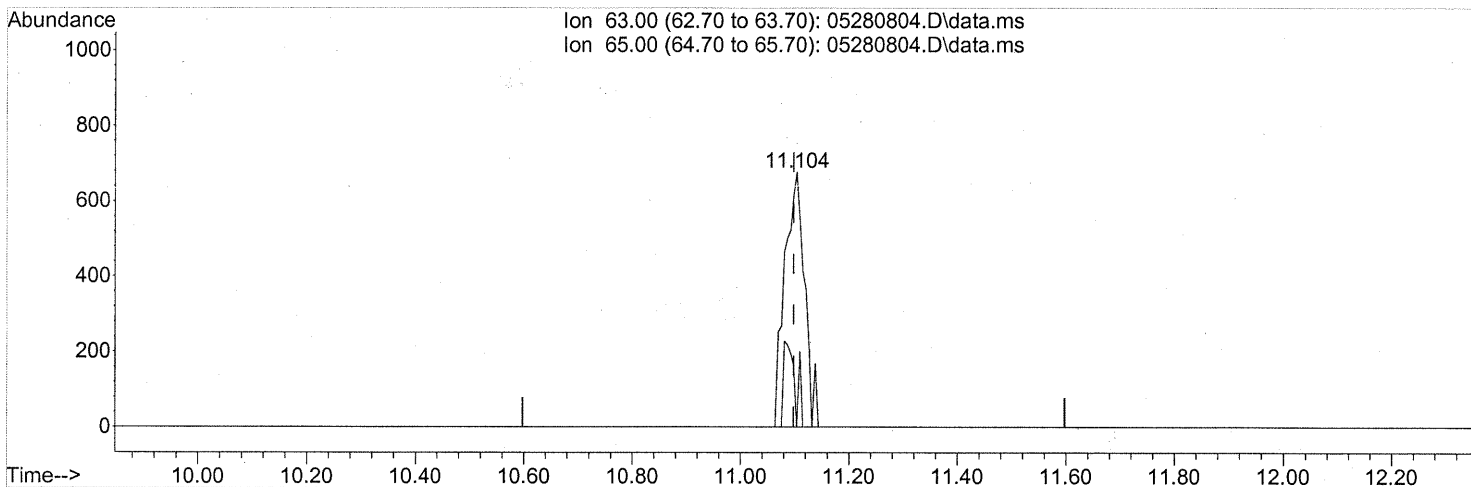
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.32
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280804.D\data.ms

(24) 1,1-Dichloroethane (T)

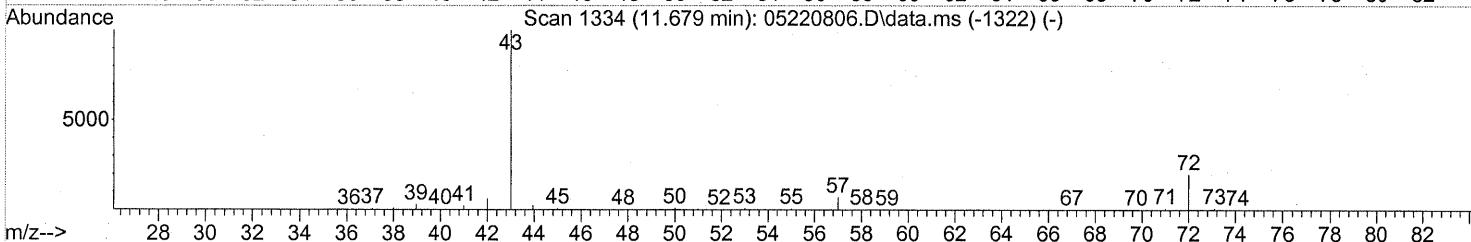
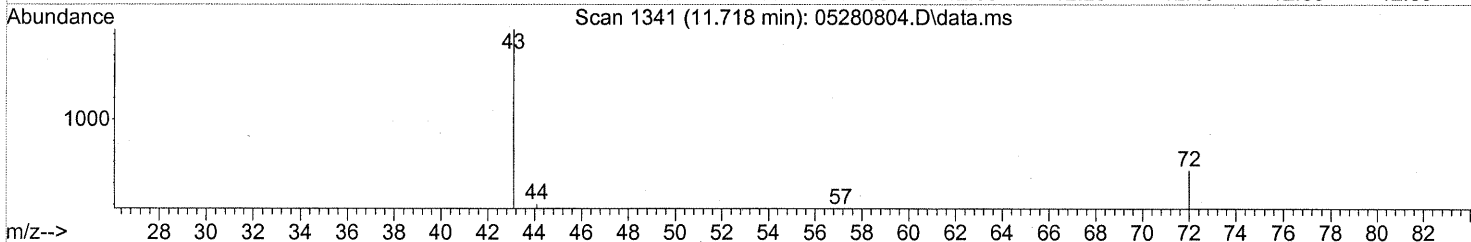
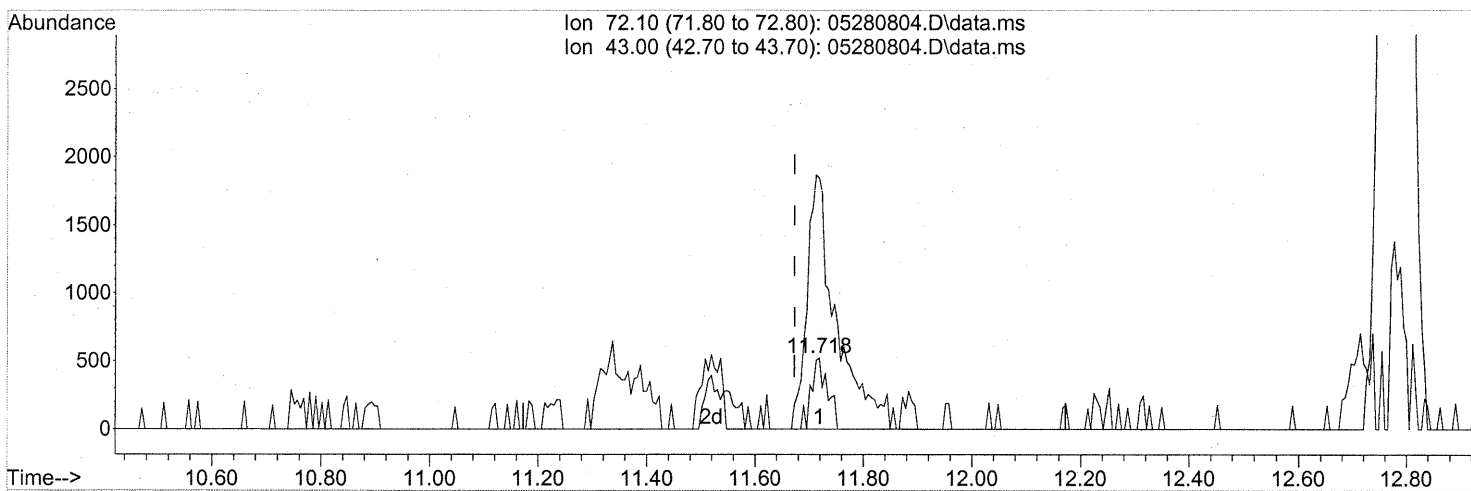
11.104min (+0.006) 0.05ng

response 1706

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



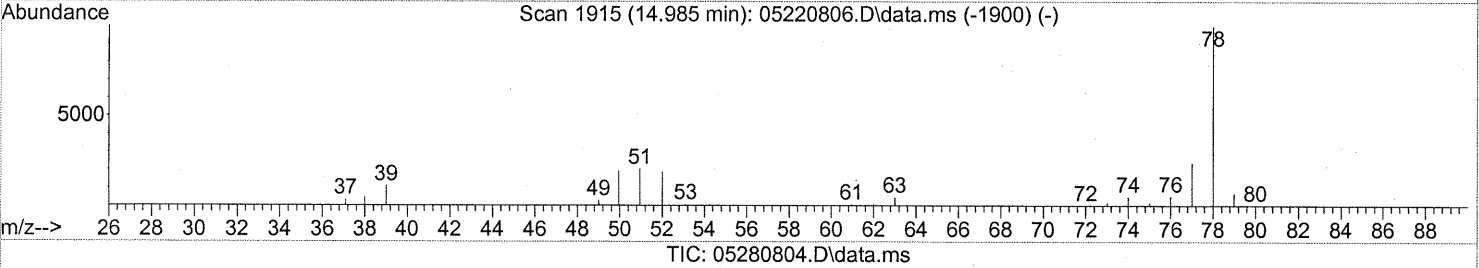
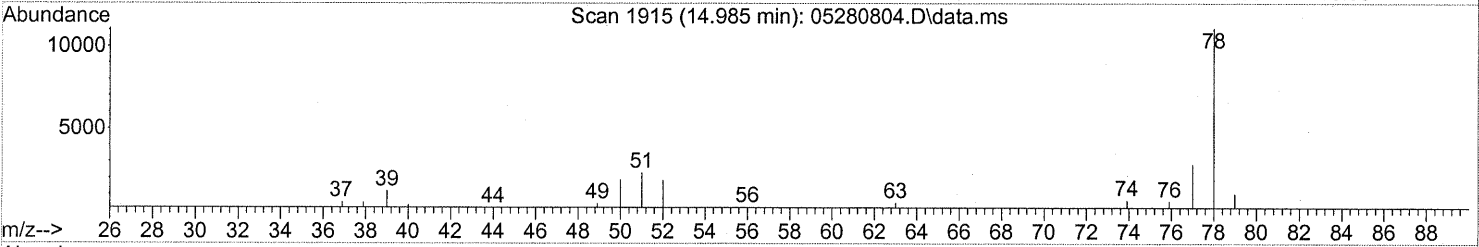
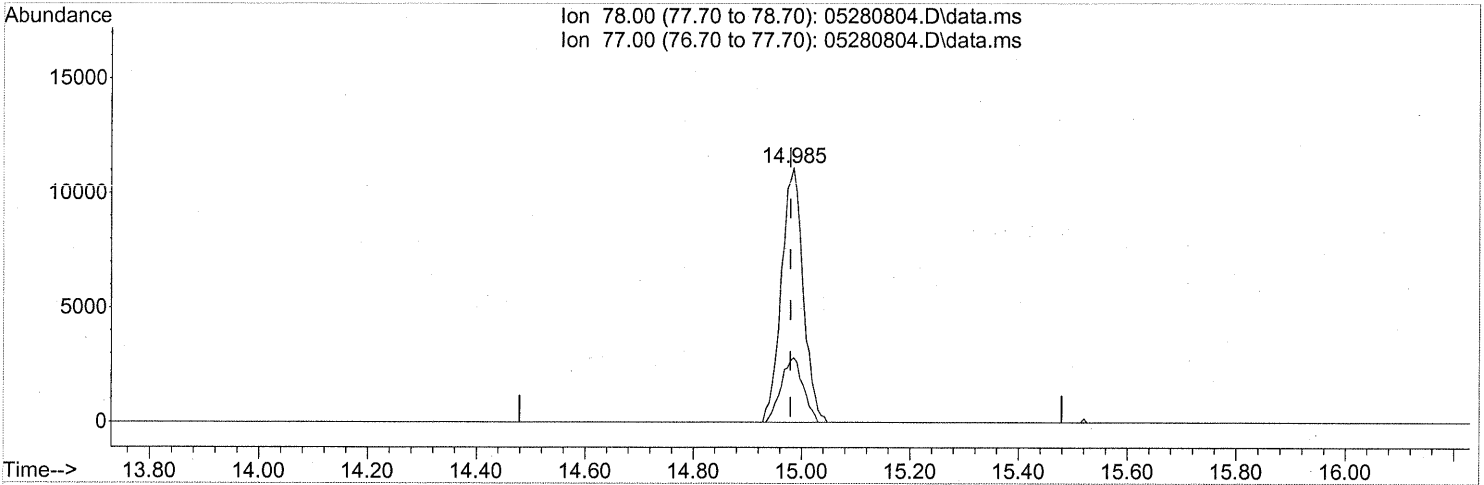
(27) 2-Butanone (T)
 11.718min (+0.045) 0.09ng
 response 1082

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	652.68#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280804.D
Acq On : 28 May 2008 9:32
Operator : WA
Sample : P0801483-017 (10ml)
Misc : ENSR SG83B-05 (-4.6, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(41) Benzene (T)

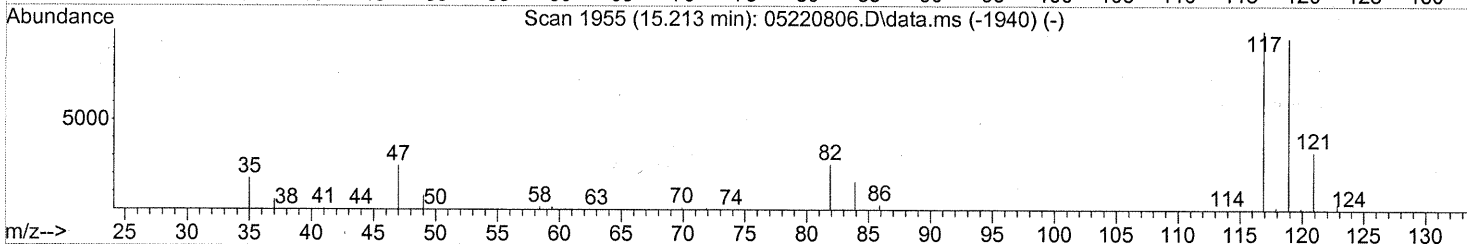
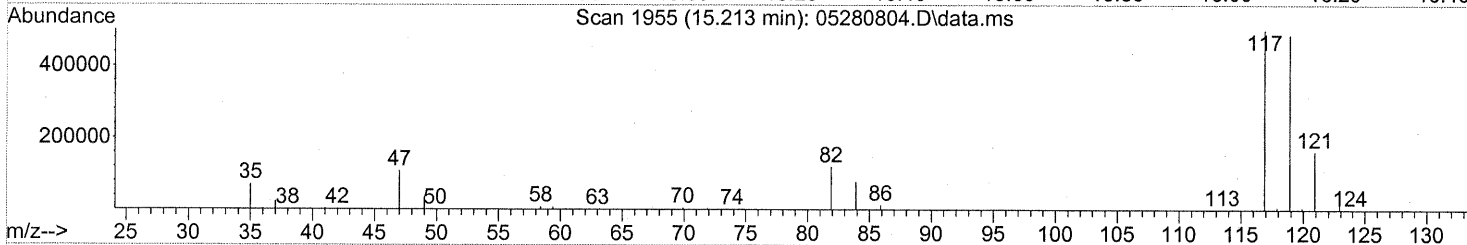
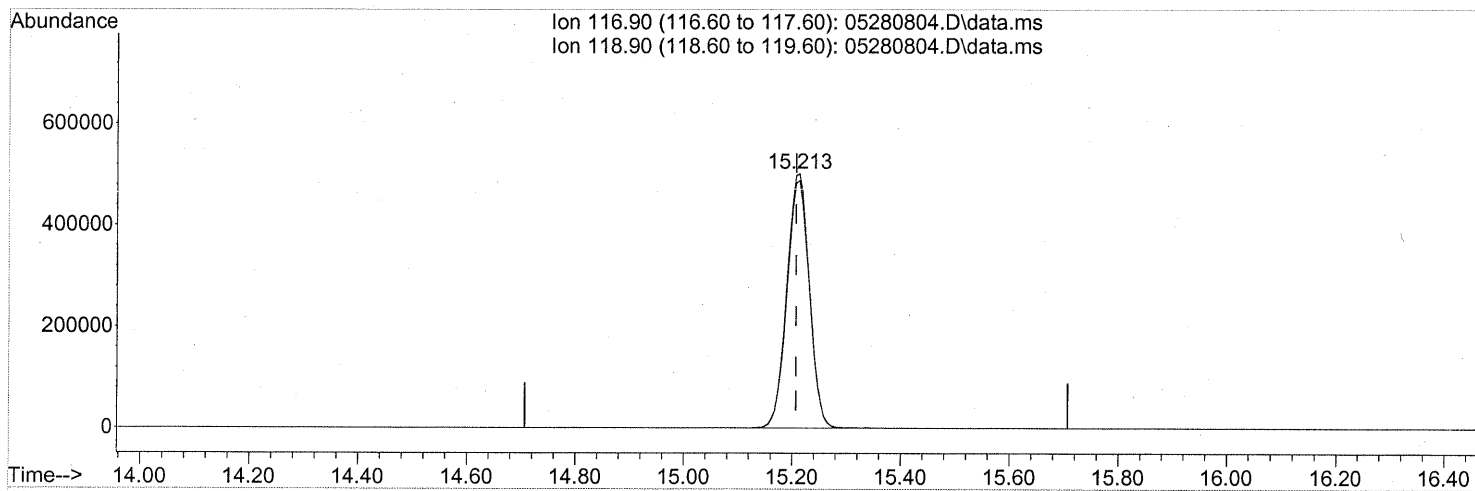
14.985min (+0.006) 0.44ng

response 30939

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	25.59
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280804.D\data.ms

(42) Carbon Tetrachloride (T)

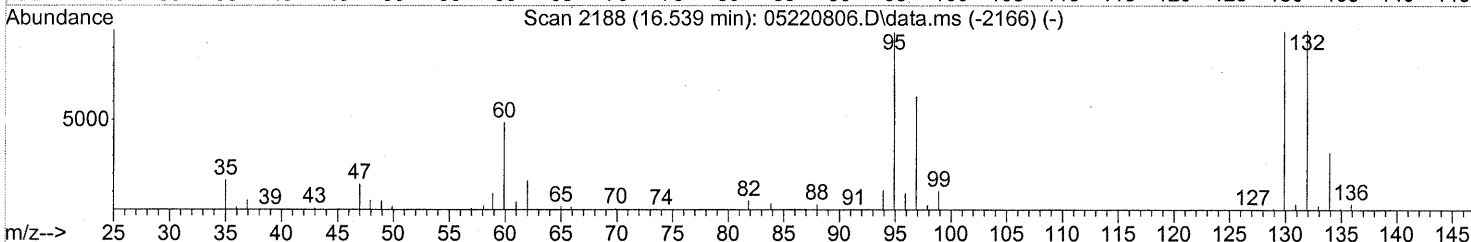
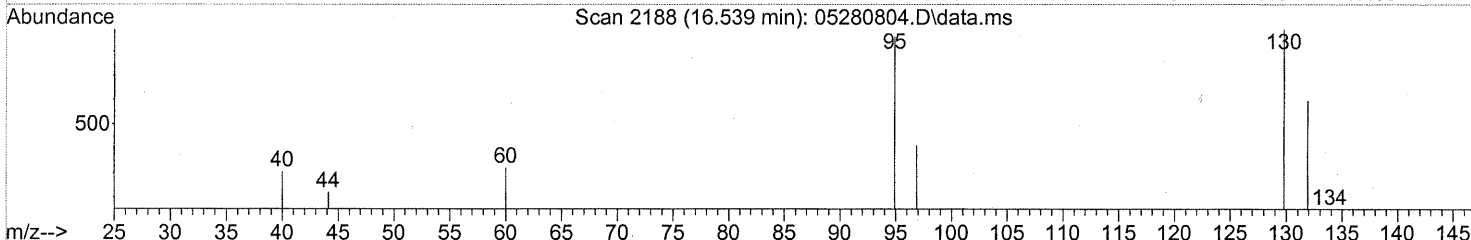
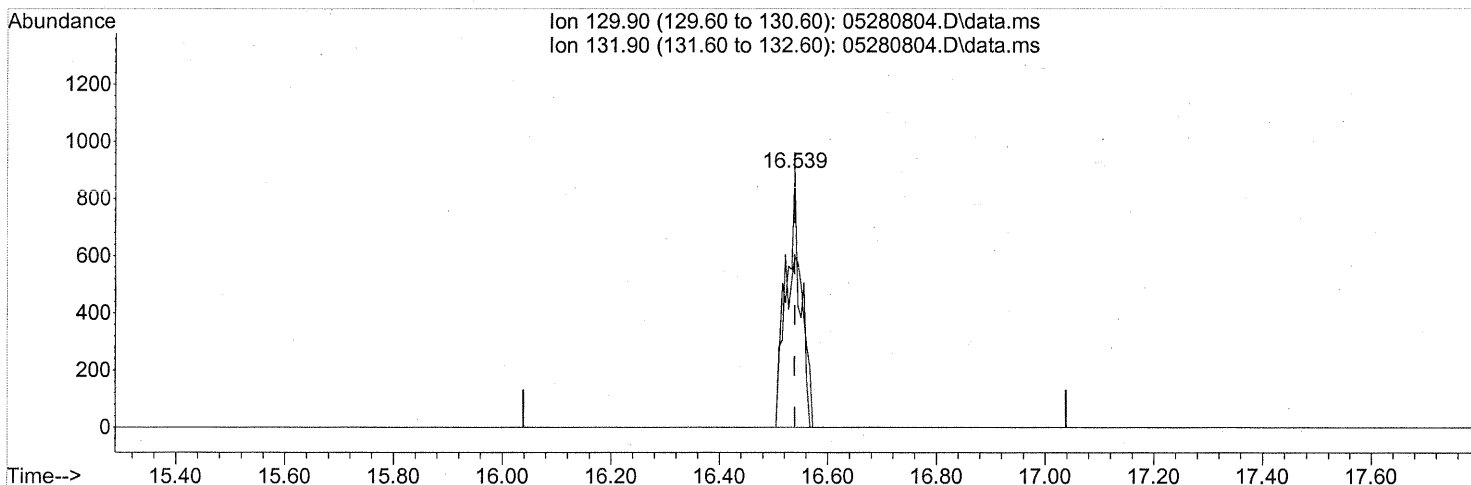
15.213min (+0.006) 53.74ng

response 1443068

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	96.29
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280804.D\data.ms

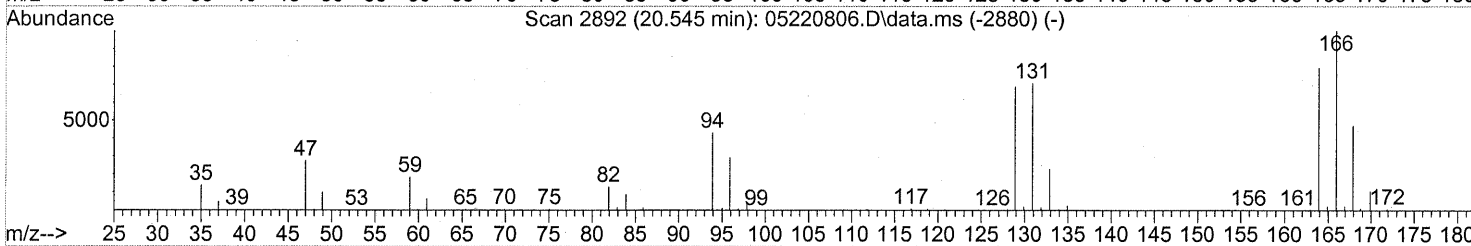
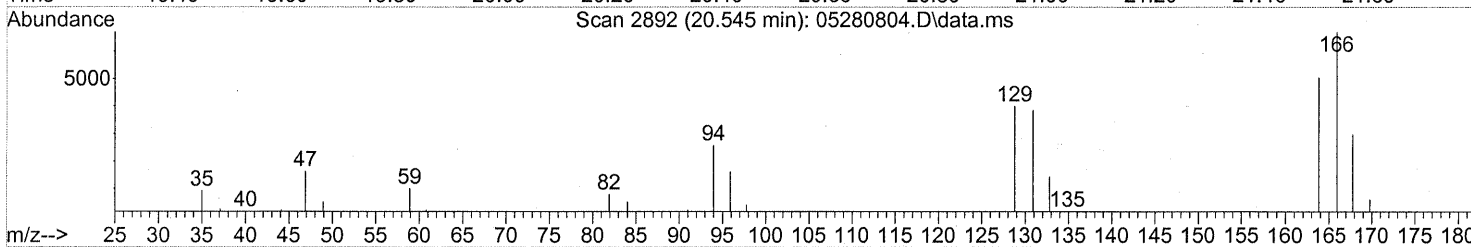
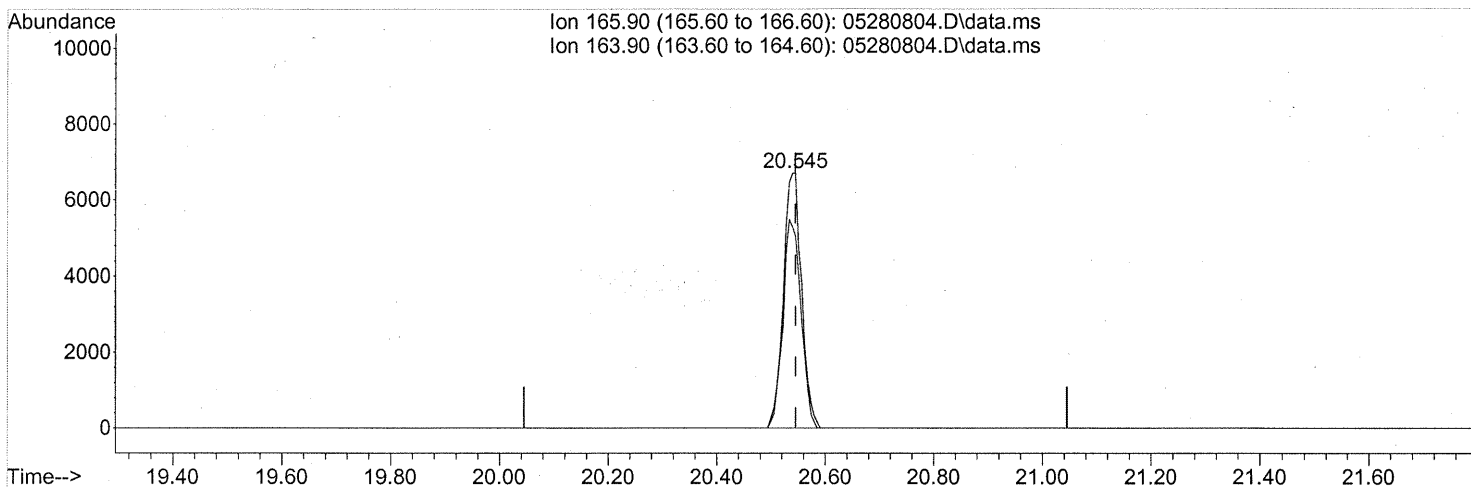
(47) Trichloroethene (T)
 16.539min (-0.000) 0.07ng
 response 1589

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	100.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280804.D\data.ms

(64) Tetrachloroethene (T)

20.545min (-0.000) 0.70ng

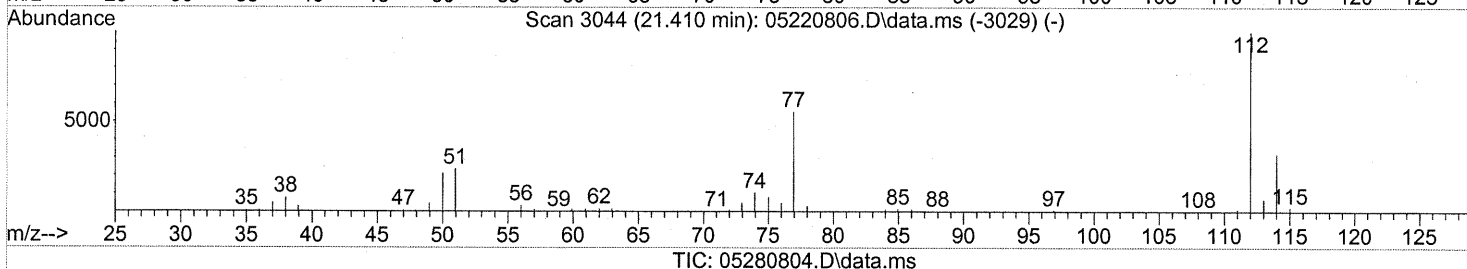
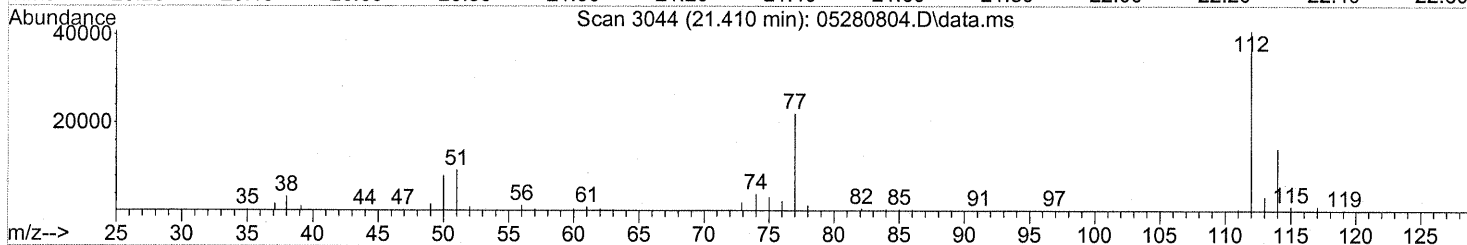
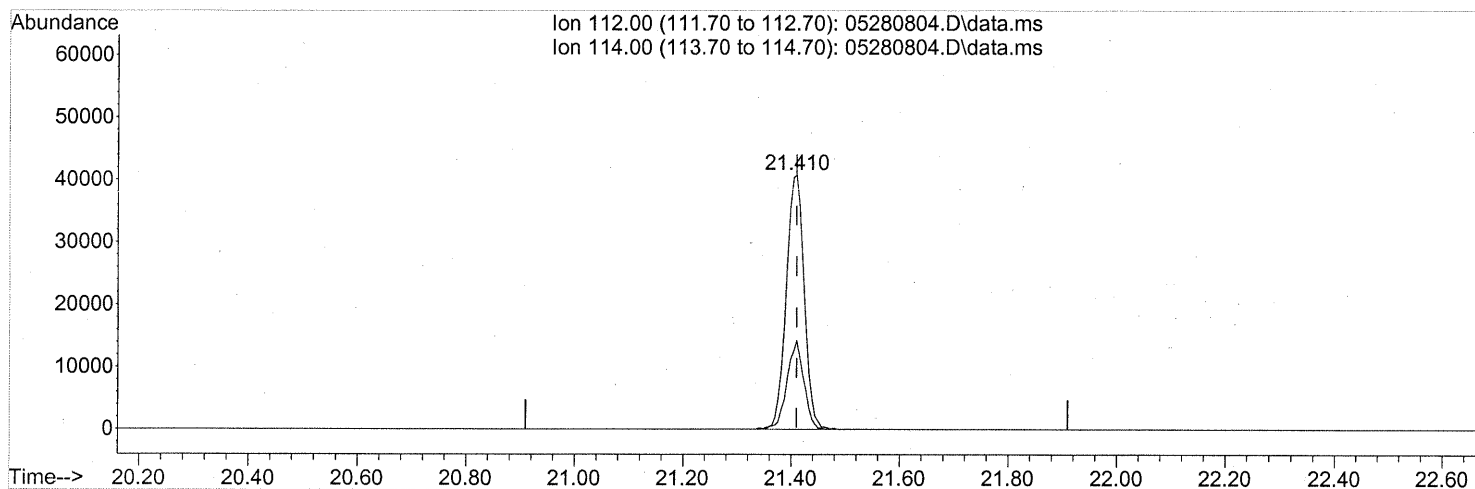
response 15518

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	80.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280804.D
Acq On : 28 May 2008 9:32
Operator : WA
Sample : P0801483-017 (10ml)
Misc : ENSR SG83B-05 (-4.6, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

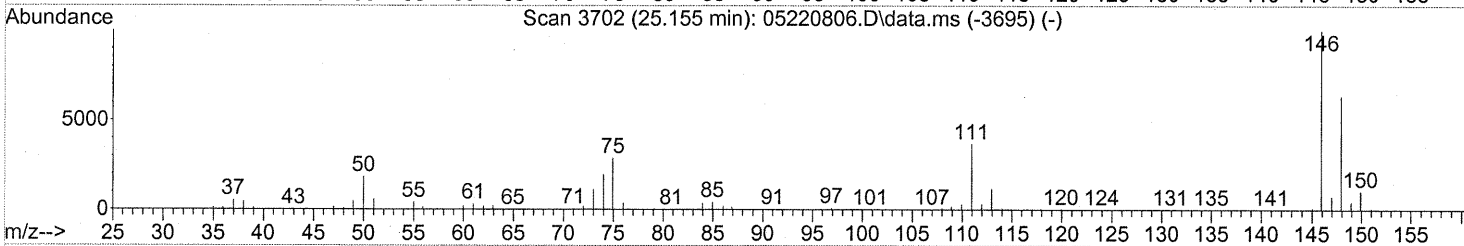
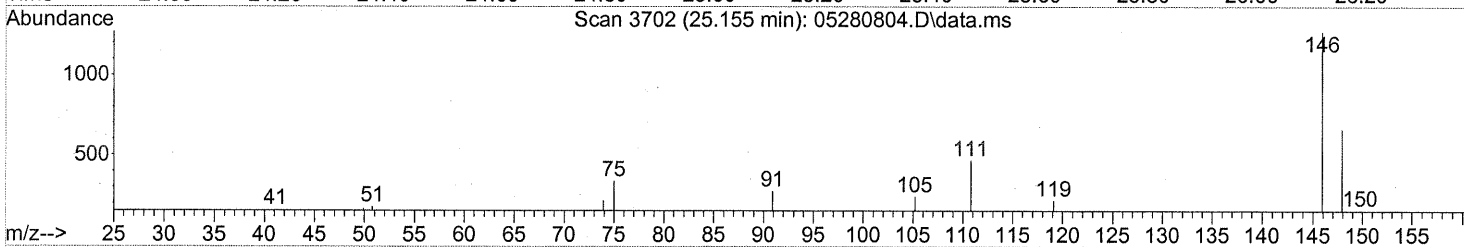
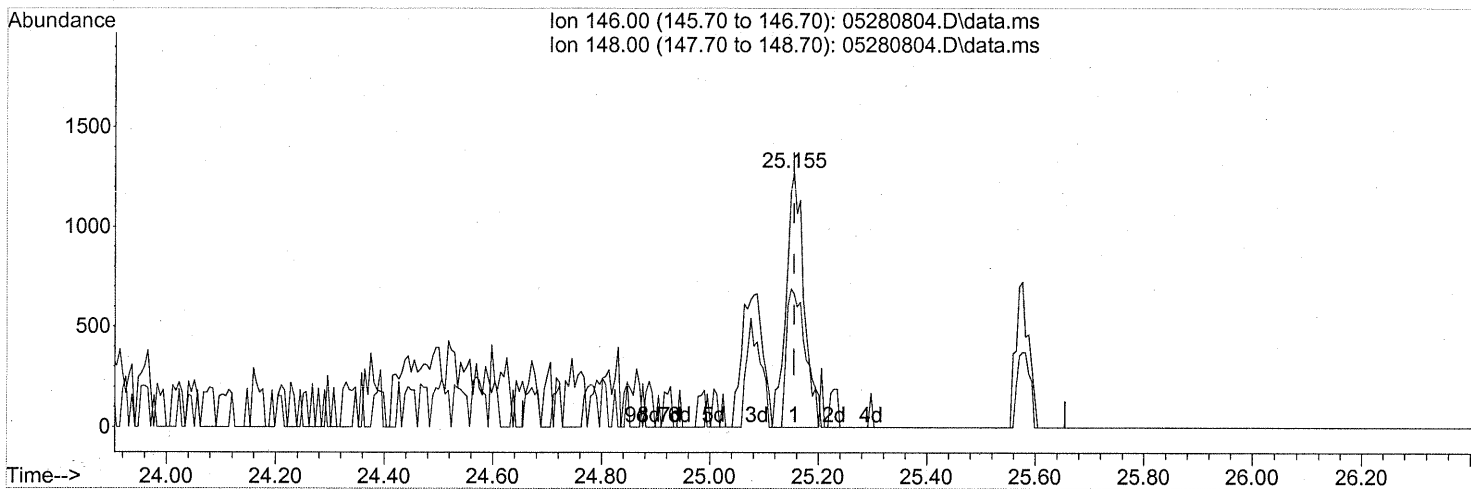


(65) Chlorobenzene (T)
21.410min (-0.000) 1.86ng
response 93698

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	32.51
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280804.D\data.ms

(86) 1,4-Dichlorobenzene (T)

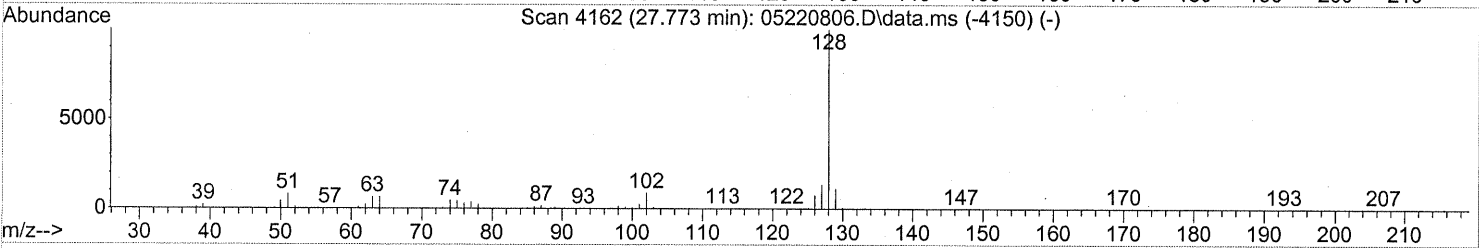
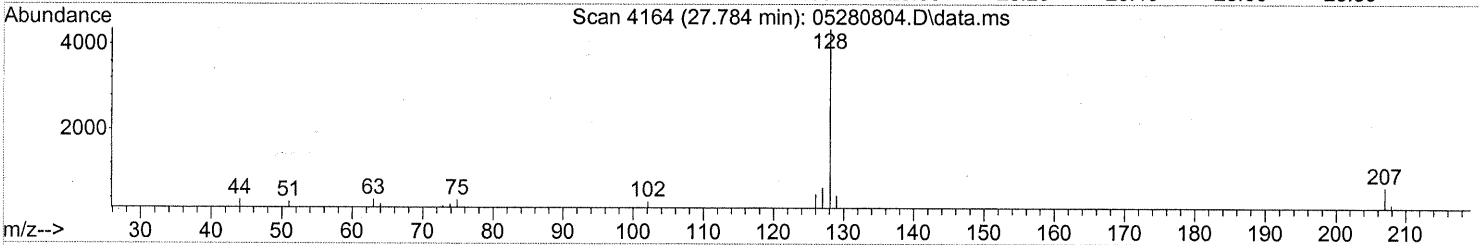
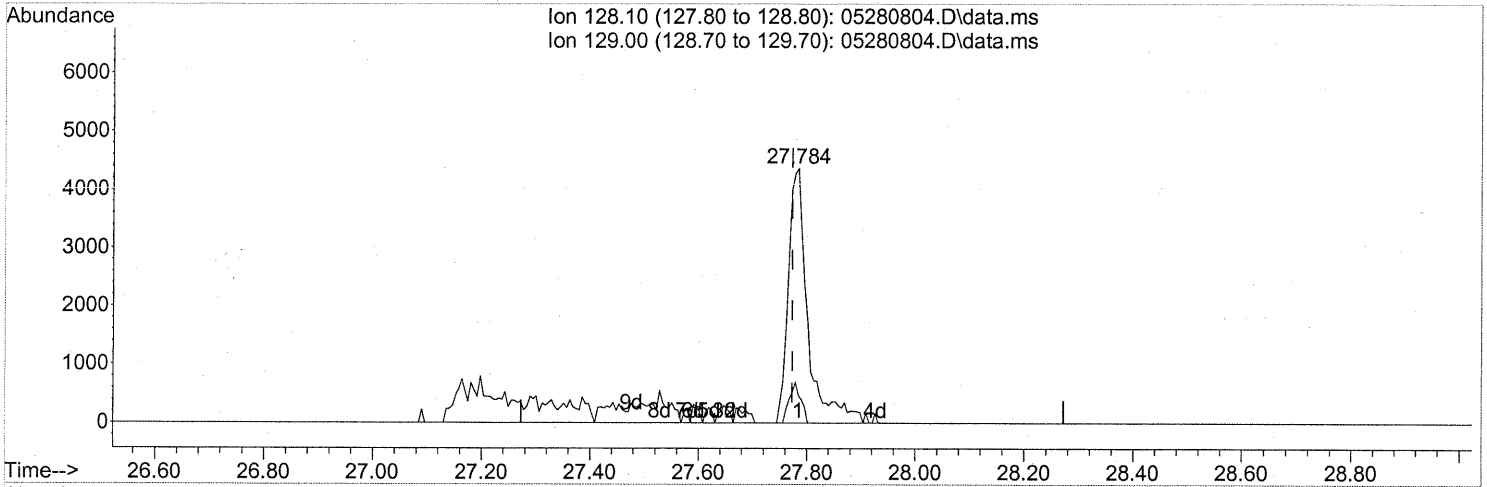
25.155min (-0.000) 0.06ng

response 2905

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	58.90
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 10:54:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

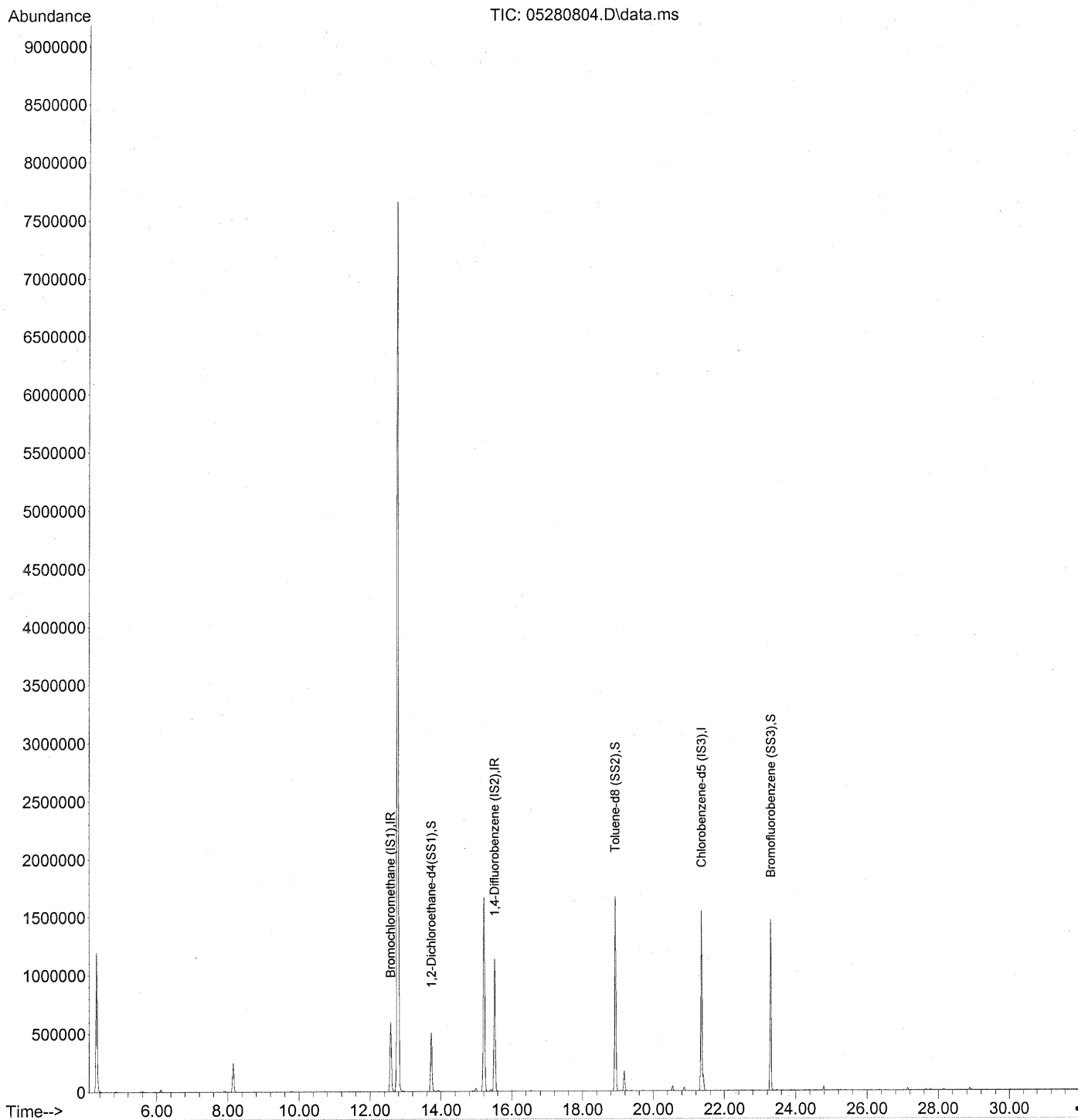


(95) Naphthalene (T)
 27.784min (+0.011) 0.11ng
 response 10977

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	9.19
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32 am
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:24:11 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280804.D
 Acq On : 28 May 2008 9:32 am
 Operator : WA
 Sample : P0801483-017 (10ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

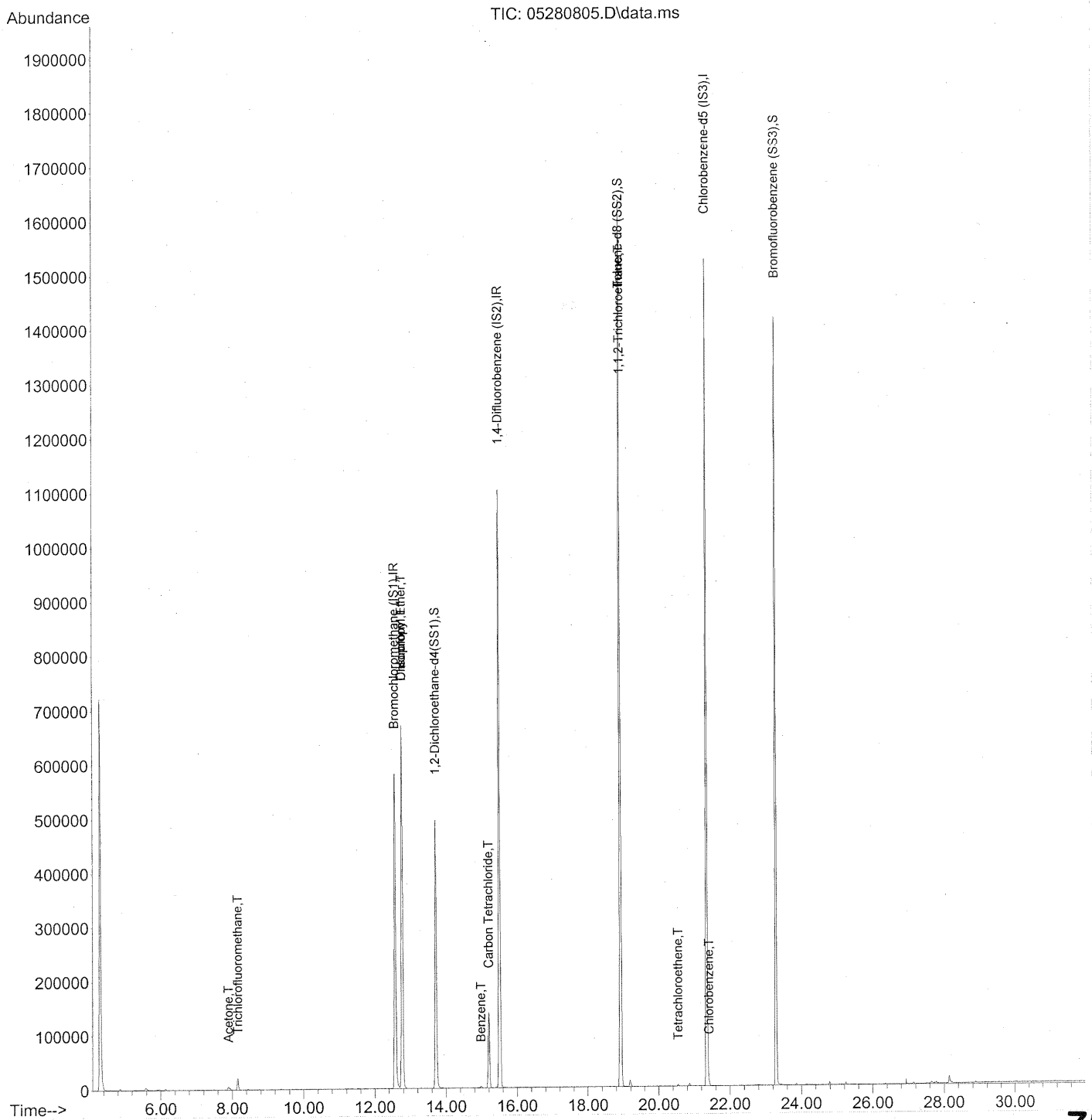
Quant Time: May 31 13:24:11 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	314404	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1331644	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	613875	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	510130	23.417	ng	-0.03
Spiked Amount	25.000		Recovery	=	93.68%	
5) Toluene-d8 (SS2)	18.92	98	1393176	25.270	ng	-0.02
Spiked Amount	25.000		Recovery	=	101.08%	
6) Bromofluorobenzene (SS3)	23.29	174	562802	25.103	ng	0.00
Spiked Amount	25.000		Recovery	=	100.40%	
Target Compounds						
7) tert-Butylbenzene	25.02	119	322	N.D.	✓	Qvalue
8) n-Butylbenzene	25.91	91	1412	N.D.	✓	

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

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280805.D
Acq On : 28 May 2008 12:13
Operator : WA
Sample : P0801483-017 Dil (1.0ml)
Misc : ENSR SG83B-05 (-4.6, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 14:54:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280805.D
 Acq On : 28 May 2008 12:13
 Operator : WA
 Sample : P0801483-017 Dil (1.0ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 14:54:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	308951	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.50	114	1297212	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.35	82	601748	25.000	ng	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.72	65	507173	23.692	ng	-0.01
Spiked Amount	25.000		Recovery	=	94.76%	✓
57) Toluene-d8 (SS2)	18.92	98	1354412	25.062	ng	0.00
Spiked Amount	25.000		Recovery	=	100.24%	✓
73) Bromofluorobenzene (SS3)	23.29	174	553480	25.185	ng	0.00
Spiked Amount	25.000		Recovery	=	100.76%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	433		N.D.	
3) Dichlorodifluoromethane	0.00	85	0		N.D.	
4) Chloromethane	0.00	50	0		N.D.	
5) Freon 114	0.00	135	0		N.D.	
6) Vinyl Chloride	0.00	62	0		N.D.	
7) 1,3-Butadiene	0.00	54	0		N.D.	
8) Bromomethane	0.00	94	0		N.D.	
9) Chloroethane	0.00	64	0		N.D.	
10) Ethanol	7.13	45	414		N.D.	
11) Acetonitrile	7.47	41	307		N.D.	
12) Acrolein	7.67	56	66		N.D.	
13) Acetone	7.89	58	3874	0.233	ng	# 80
14) Trichlorofluoromethane	8.16	101	25730	0.667	ng	95
15) Isopropanol	0.00	45	0		N.D.	
16) Acrylonitrile	0.00	53	0		N.D.	
17) 1,1-Dichloroethene	0.00	96	0		N.D.	
18) tert-Butanol	0.00	59	0		N.D.	
19) Methylene Chloride	9.36	84	656		N.D.	
20) Allyl Chloride	0.00	41	0		N.D.	
21) Trichlorotrifluoroethane	0.00	151	0		N.D.	
22) Carbon Disulfide	9.78	76	2010		N.D.	
23) trans-1,2-Dichloroethene	0.00	61	0		N.D.	
24) 1,1-Dichloroethane	0.00	63	0		N.D.	
25) Methyl tert-Butyl Ether	0.00	73	0		N.D.	
26) Vinyl Acetate	0.00	86	0		N.D.	
27) 2-Butanone	11.72	72	165		N.D.	
28) cis-1,2-Dichloroethene	0.00	61	0		N.D.	
29) Diisopropyl Ether	12.77	87	73034	4.910	ng	# 1
30) Ethyl Acetate	0.00	61	0		N.D.	
31) n-Hexane	0.00	57	0		N.D.	

5/31/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280805.D
 Acq On : 28 May 2008 12:13
 Operator : WA
 Sample : P0801483-017 Dil (1.0ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 14:54:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.77	83	715199	25.386	ng	100
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.73	62	68	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.90	56	122	N.D.		
41) Benzene	14.97	78	3545	0.052	ng	94
42) Carbon Tetrachloride	15.20	117	118430	4.527	ng	98
43) Cyclohexane	15.40	84	366	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	16.53	130	125	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.93	97	118970	7.088	ng	# 8
58) Toluene	19.06	91	520	N.D.		
59) 2-Hexanone	19.38	43	59	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.54	166	1331	0.061	ng	93
65) Chlorobenzene	21.41	112	7557	0.153	ng	99
66) Ethylbenzene	21.90	91	56	N.D.		
67) m- & p-Xylene	22.10	91	283	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.71	91	110	N.D.		
71) n-Nonane	22.78	43	67	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.46	105	65	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.31	91	61	N.D.		
77) 3-Ethyltoluene	24.22	105	73	N.D.		
78) 4-Ethyltoluene	24.28	105	206	N.D.		
79) 1,3,5-Trimethylbenzene	24.37	105	121	N.D.		

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280805.D
 Acq On : 28 May 2008 12:13
 Operator : WA
 Sample : P0801483-017 Dil (1.0ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

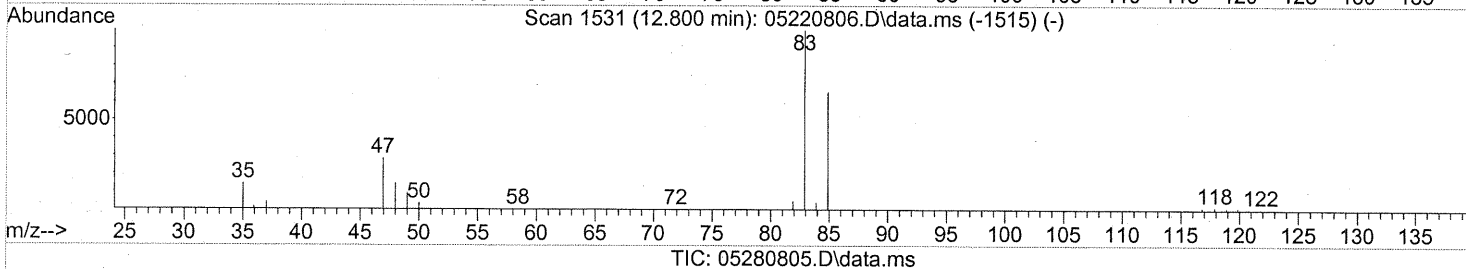
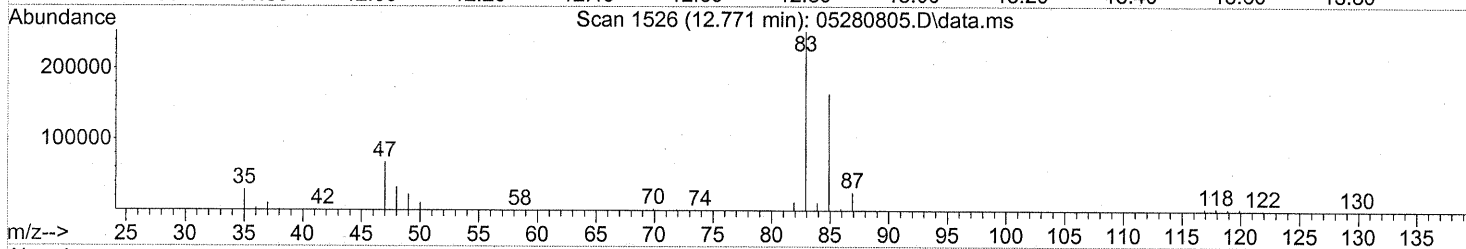
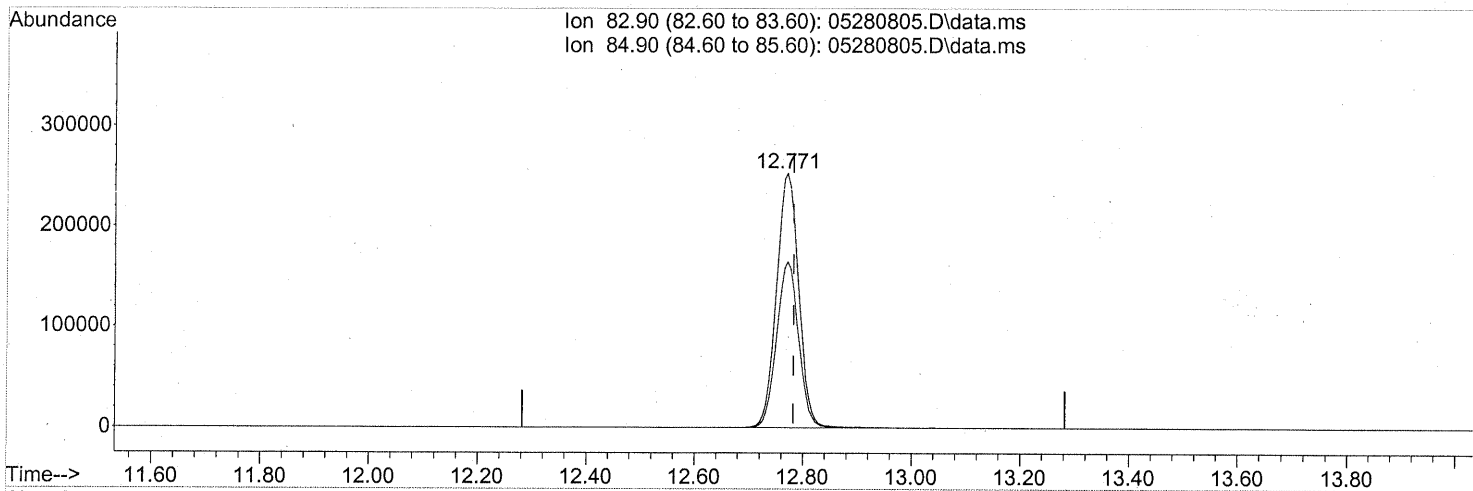
Quant Time: May 28 14:54:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0		N.D.	
81) 2-Ethyltoluene	24.61	105	58		N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	127		N.D.	
83) n-Decane	24.73	57	116		N.D.	
84) Benzyl Chloride	25.05	91	95		N.D.	
85) 1,3-Dichlorobenzene	25.08	146	154		N.D.	
86) 1,4-Dichlorobenzene	25.15	146	474		N.D.	
87) sec-Butylbenzene	25.41	105	53		N.D.	
88) p-Isopropyltoluene	0.00	119	0		N.D.	
89) 1,2,3-Trimethylbenzene	25.41	105	53		N.D.	
90) 1,2-Dichlorobenzene	25.58	146	59		N.D.	
91) d-Limonene	0.00	68	0		N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.35	57	464		N.D.	
94) 1,2,4-Trichlorobenzene	27.64	180	738		N.D.	
95) Naphthalene	27.78	128	4743		N.D.	
96) n-Dodecane	27.74	57	119		N.D.	
97) Hexachloro-1,3-butadiene	0.00	225	0		N.D.	

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

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280805.D
 Acq On : 28 May 2008 12:13
 Operator : WA
 Sample : P0801483-017 Dil (1.0ml)
 Misc : ENSR SG83B-05 (-4.6, 3.5)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 14:54:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)
 12.771min (-0.011) 25.39ng
 response 715199

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.46
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG27B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-018

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00931

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27 - 5/28/08
 Volume(s) Analyzed: 0.50 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.7	0.17	0.41	0.34	0.034	
74-87-3	Chloromethane	ND	0.33	0.17	ND	0.16	0.080	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.17	ND	0.24	0.024	
75-01-4	Vinyl Chloride	ND	0.33	0.17	ND	0.13	0.065	
74-83-9	Bromomethane	ND	0.33	0.17	ND	0.086	0.043	
75-00-3	Chloroethane	ND	0.33	0.17	ND	0.13	0.063	
64-17-5	Ethanol	6.3	17	0.17	3.4	8.8	0.088	J, B
67-64-1	Acetone	14	17	0.24	6.1	7.0	0.10	J, B
75-69-4	Trichlorofluoromethane	1.1	0.33	0.17	0.20	0.059	0.030	
107-13-1	Acrylonitrile	ND	1.7	0.23	ND	0.77	0.11	
75-35-4	1,1-Dichloroethene	1.7	0.33	0.17	0.42	0.084	0.042	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.88	1.7	0.25	0.29	0.55	0.081	J
75-09-2	Methylene Chloride	0.21	1.7	0.17	0.059	0.48	0.048	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.33	0.17	ND	0.11	0.053	
76-13-1	Trichlorotrifluoroethane	0.46	0.33	0.19	0.060	0.043	0.024	
75-15-0	Carbon Disulfide	0.98	1.7	0.40	0.31	0.53	0.13	J, B
156-60-5	trans-1,2-Dichloroethene	ND	0.33	0.17	ND	0.084	0.042	
75-34-3	1,1-Dichloroethane	0.23	0.33	0.17	0.057	0.082	0.041	J
1634-04-4	Methyl tert-Butyl Ether	ND	0.33	0.17	ND	0.092	0.046	
108-05-4	Vinyl Acetate	6.0	17	0.53	1.7	4.7	0.15	J, B
78-93-3	2-Butanone (MEK)	5.0	1.7	0.17	1.7	0.56	0.056	B
156-59-2	cis-1,2-Dichloroethene	ND	0.33	0.17	ND	0.084	0.042	
108-20-3	Diisopropyl Ether	ND	1.7	0.20	ND	0.40	0.047	
67-66-3	Chloroform	940	0.33	0.20	190	0.068	0.040	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG27B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-018

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00931

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27 - 5/28/08
 Volume(s) Analyzed: 0.50 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.7	0.17	ND	0.40	0.041	
107-06-2	1,2-Dichloroethane	ND	0.33	0.17	ND	0.082	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.33	0.17	ND	0.061	0.030	
71-43-2	Benzene	2.2	0.33	0.17	0.69	0.10	0.052	
56-23-5	Carbon Tetrachloride	9.7	0.33	0.17	1.5	0.053	0.026	
994-05-8	tert-Amyl Methyl Ether	ND	1.7	0.17	ND	0.40	0.040	
78-87-5	1,2-Dichloropropane	0.22	0.33	0.17	0.047	0.072	0.036	J
75-27-4	Bromodichloromethane	0.65	0.33	0.17	0.097	0.050	0.025	
79-01-6	Trichloroethene	0.73	0.33	0.17	0.14	0.062	0.031	
123-91-1	1,4-Dioxane	ND	1.7	0.20	ND	0.46	0.056	
80-62-6	Methyl Methacrylate	ND	1.7	0.25	ND	0.41	0.061	
142-82-5	n-Heptane	ND	1.7	0.21	ND	0.41	0.052	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.17	ND	0.37	0.038	
108-10-1	4-Methyl-2-pentanone	0.20	1.7	0.19	0.049	0.41	0.045	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.21	ND	0.37	0.046	
79-00-5	1,1,2-Trichloroethane	ND	0.33	0.17	ND	0.061	0.030	
108-88-3	Toluene	2.7	1.7	0.17	0.73	0.44	0.044	
591-78-6	2-Hexanone	0.54	1.7	0.25	0.13	0.41	0.062	J
124-48-1	Dibromochloromethane	ND	0.33	0.23	ND	0.039	0.027	
106-93-4	1,2-Dibromoethane	ND	0.33	0.18	ND	0.043	0.023	
111-65-9	n-Octane	ND	1.7	0.17	ND	0.36	0.036	
127-18-4	Tetrachloroethene	6.4	0.33	0.17	0.95	0.049	0.024	
108-90-7	Chlorobenzene	ND	0.33	0.17	ND	0.072	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG27B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-018

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00931

Date Collected: 5/16/08
 Date Received: 5/20/08
 Date Analyzed: 5/27 - 5/28/08
 Volume(s) Analyzed: 0.50 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	1.7	0.21	ND	0.38	0.047	
179601-23-1	m,p-Xylenes	0.49	1.7	0.43	0.11	0.38	0.099	J
75-25-2	Bromoform	ND	1.7	0.25	ND	0.16	0.024	
100-42-5	Styrene	ND	1.7	0.25	ND	0.39	0.059	
95-47-6	o-Xylene	0.26	1.7	0.21	0.059	0.38	0.048	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.33	0.21	ND	0.048	0.031	
98-82-8	Cumene	ND	1.7	0.19	ND	0.34	0.038	
103-65-1	n-Propylbenzene	ND	1.7	0.17	ND	0.34	0.035	
622-96-8	4-Ethyltoluene	ND	1.7	0.19	ND	0.34	0.039	
108-67-8	1,3,5-Trimethylbenzene	ND	1.7	0.20	ND	0.34	0.041	
98-83-9	alpha-Methylstyrene	ND	1.7	0.24	ND	0.34	0.050	
95-63-6	1,2,4-Trimethylbenzene	0.43	1.7	0.23	0.088	0.34	0.047	J
100-44-7	Benzyl Chloride	ND	0.33	0.29	ND	0.064	0.055	
541-73-1	1,3-Dichlorobenzene	ND	0.33	0.21	ND	0.055	0.034	
106-46-7	1,4-Dichlorobenzene	12	0.33	0.19	2.1	0.055	0.031	
135-98-8	sec-Butylbenzene	ND	1.7	0.19	ND	0.30	0.035	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	1.7	0.22	ND	0.30	0.039	
95-50-1	1,2-Dichlorobenzene	ND	0.33	0.22	ND	0.055	0.036	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.25	ND	0.17	0.026	
120-82-1	1,2,4-Trichlorobenzene	ND	0.33	0.25	ND	0.045	0.034	
91-20-3	Naphthalene	2.3	0.66	0.25	0.44	0.13	0.047	
87-68-3	Hexachlorobutadiene	2.7	0.33	0.30	0.25	0.031	0.028	
98-06-6	tert-Butylbenzene	ND	0.66	0.17	ND	0.12	0.030	
104-51-8	n-Butylbenzene	0.18	0.66	0.17	0.033	0.12	0.030	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

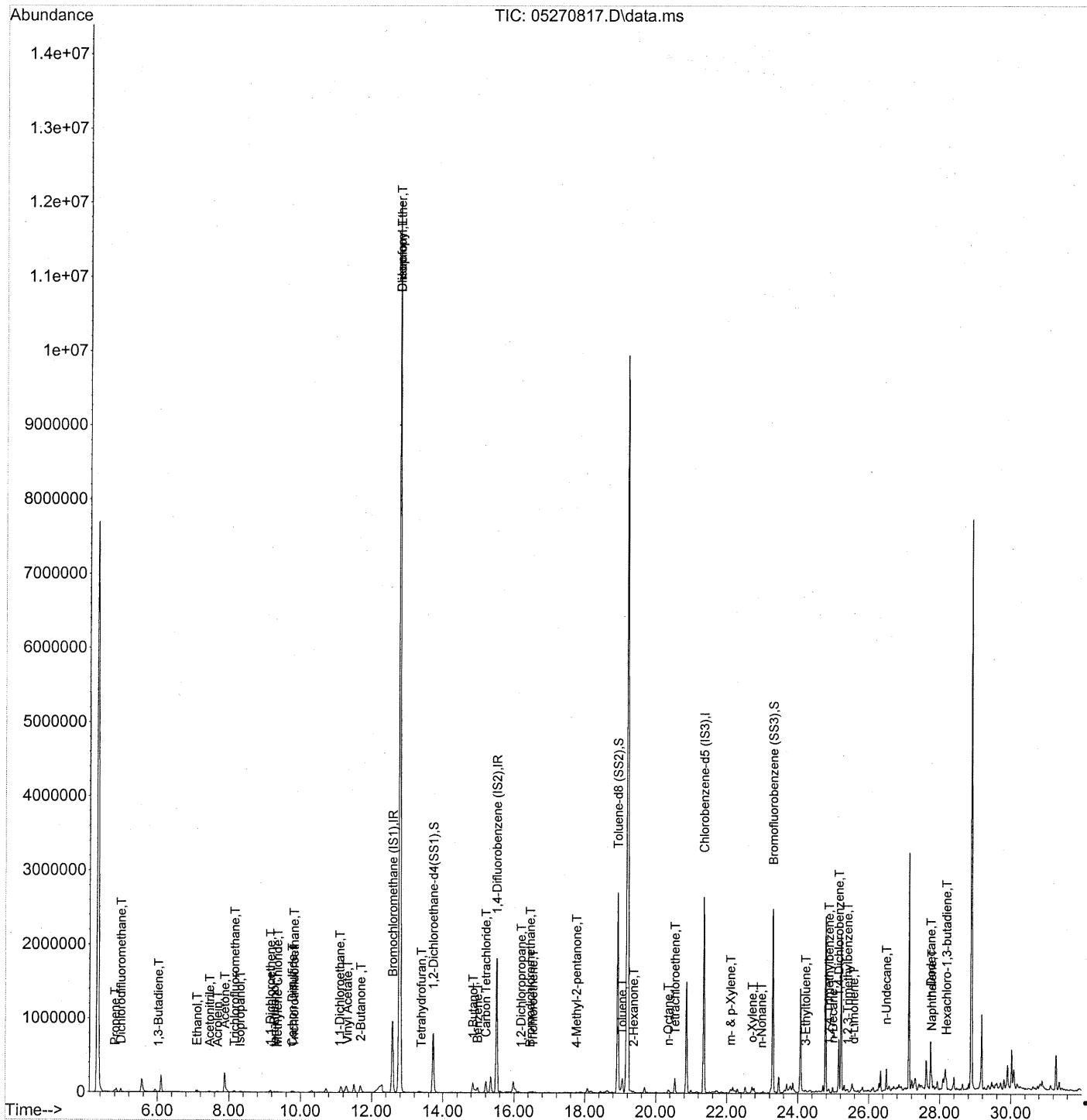
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CA Date: 6/4/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 11:09:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 11:09:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	514732	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2168190	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1024484	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)	Recovery
33) 1,2-Dichloroethane-d4 (...)	13.73	65	810126	22.714	ng	0.00	90.84%
Spiked Amount				25.000			
57) Toluene-d8 (SS2)	18.93	98	2276382	24.741	ng	0.00	98.96%
Spiked Amount				25.000			
73) Bromofluorobenzene (SS3)	23.29	174	934190	24.968	ng	0.00	99.88%
Spiked Amount				25.000			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	14377	0.354	ng	# 70
3) Dichlorodifluoromethane	4.97	85	45701	0.610	ng	99
4) Chloromethane	5.30	50	792	N.D.	✓	
5) Freon 114	5.56	135	1250	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.02	54	1950	0.054	ng	87
8) Bromomethane	6.49	94	389	N.D.	✓	
9) Chloroethane	6.82	64	139	N.D.	✓	
10) Ethanol	7.10	45	51609m	1.907	ng	
11) Acetonitrile	7.46	41	18521	0.237	ng	100
12) Acrolein	7.68	56	11786	0.610	ng	93
13) Acetone	7.88	58	120493	4.349	ng	# 54
14) Trichlorofluoromethane	8.16	101	21274	0.331	ng	99
15) Isopropanol	8.32	45	21421	0.242	ng	74
16) Acrylonitrile	8.66	53	388	N.D.	✓	
17) 1,1-Dichloroethene	9.16	96	14046	0.497	ng	# 72
18) tert-Butanol	9.27	59	19841m	0.264	ng	
19) Methylene Chloride	9.36	84	1935	0.062	ng	84
20) Allyl Chloride	9.44	41	784	N.D.	✓	
21) Trichlorotrifluoroethane	9.82	151	4064	0.139	ng	95
22) Carbon Disulfide	9.77	76	34597	0.294	ng	98
23) trans-1,2-Dichloroethene	10.72	61	562	N.D.	✓	
24) 1,1-Dichloroethane	11.10	63	3687	0.069	ng	94
25) Methyl tert-Butyl Ether	11.21	73	716	N.D.	✓	
26) Vinyl Acetate	11.31	86	9205	1.798	ng	# 1
27) 2-Butanone	11.69	72	30730	1.520	ng	# 67
28) cis-1,2-Dichloroethene	12.35	61	144	N.D.	✓	
29) Diisopropyl Ether	12.78	87	1436017	57.948	ng NR	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.70	57	1044	N.D.		

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Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 11:09:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	12935246	275.586 ng	see dil	98
34) Tetrahydrofuran	13.39	72	2043	0.106	ng #	85
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.76	62	69	N.D.	✓	
38) 1,1,1-Trichloroethane	14.30	97	319	N.D.	✓	
39) Isopropyl Acetate	14.97	61	467	N.D.		
40) 1-Butanol	14.85	56	128654	4.317	ng	93
41) Benzene	14.98	78	75191	0.662	ng	100
42) Carbon Tetrachloride	15.21	117	128040	2.929	ng	100
43) Cyclohexane	15.46	84	114	N.D.		
44) tert-Amyl Methyl Ether	15.87	73	1508	N.D.	✓	
45) 1,2-Dichloropropane	16.20	63	1971	0.065	ng	94
46) Bromodichloromethane	16.46	83	7484	0.195	ng	96
47) Trichloroethene	16.53	130	7704	0.221	ng	99
48) 1,4-Dioxane	16.51	88	85	N.D.	✓	
49) Isooctane	16.59	57	3235	N.D.		
50) Methyl Methacrylate	16.70	100	53	N.D.	✓	
51) n-Heptane	16.98	71	545	N.D.	✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.77	58	1818	0.060	ng #	33
54) trans-1,3-Dichloropropene	18.43	75	114	N.D.	✓	
55) 1,1,2-Trichloroethane	18.68	97	732	N.D.	✓	
58) Toluene	19.05	91	103240	0.825	ng	99
59) 2-Hexanone	19.37	43	13994	0.162	ng	74
60) Dibromochloromethane	0.00	129	0	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.16	43	461	N.D.		
63) n-Octane	20.35	57	1462	0.053	ng UR #	73
64) Tetrachloroethene	20.54	166	71447	1.931	ng	99
65) Chlorobenzene	21.40	112	508	N.D.	✓	
66) Ethylbenzene	21.88	91	4970	N.D.	✓	
67) m- & p-Xylene	22.10	91	14079	0.147	ng	82
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	22.57	104	1773	N.D.	✓	
70) o-Xylene	22.72	91	7958m	0.077	ng	
71) n-Nonane	22.98	43	4121	0.056	ng #	70
72) 1,1,2,2-Tetrachloroethane	22.70	83	1515	N.D.	✓	
74) Cumene	23.47	105	1613	N.D.	✓	
75) alpha-Pinene	23.96	93	1929	N.D.		
76) n-Propylbenzene	24.10	91	6522	N.D.	✓	
77) 3-Ethyltoluene	24.22	105	8382	0.057	ng	97
78) 4-Ethyltoluene	24.28	105	4549	N.D.	✓	
79) 1,3,5-Trimethylbenzene	24.37	105	4449	N.D.	✓	

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 11:09:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

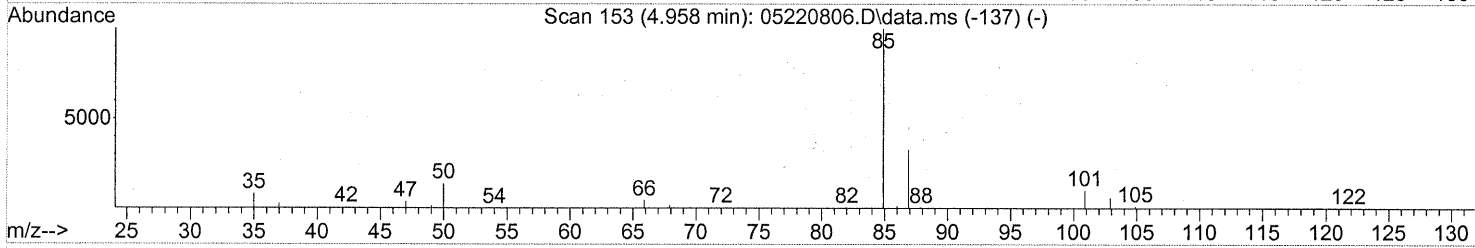
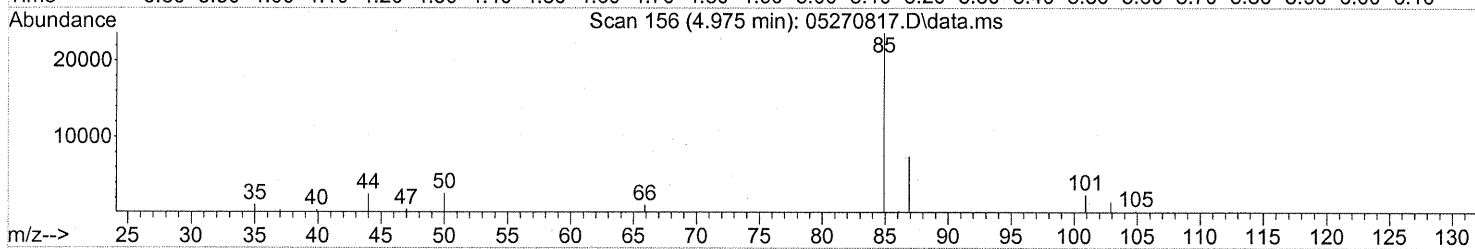
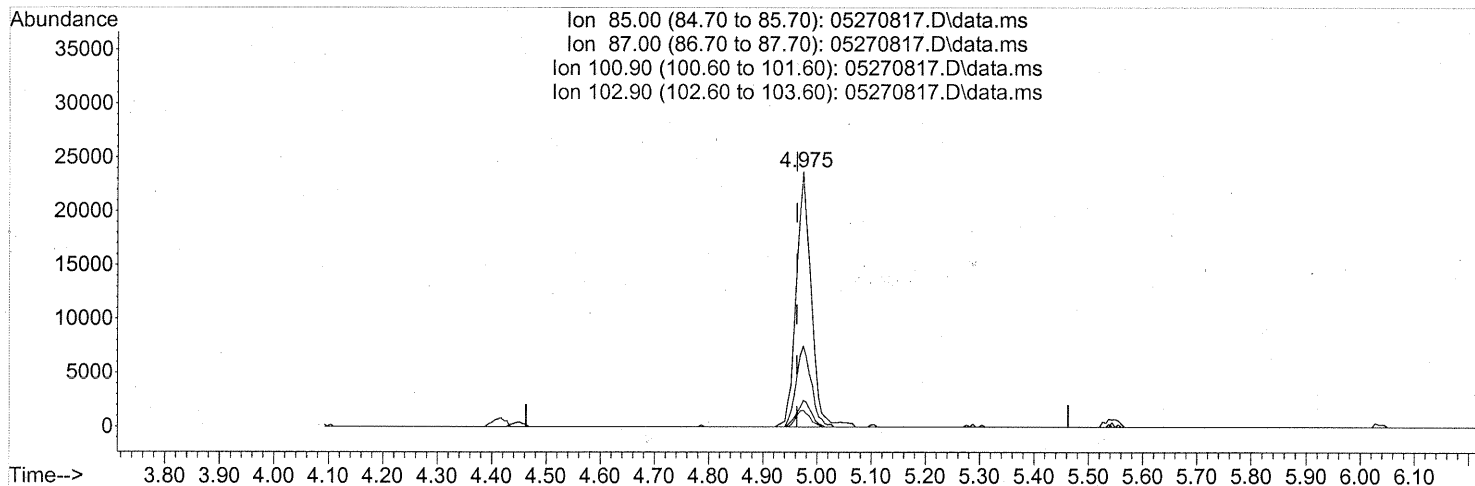
Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
80) alpha-Methylstyrene	24.55	118	1674	N.D. ✓	
81) 2-Ethyltoluene	24.60	105	5280	N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	16419	0.130 ng	84
83) n-Decane	24.98	57	25306	0.365 ng	81
84) Benzyl Chloride	25.05	91	1321	N.D. ✓	
85) 1,3-Dichlorobenzene	25.08	146	649	N.D. ✓	
86) 1,4-Dichlorobenzene	25.15	146	286683	3.758 ng	100
87) sec-Butylbenzene	25.21	105	1326	N.D. ✓	
88) p-Isopropyltoluene	25.39	119	3799	N.D. ✓	
89) 1,2,3-Trimethylbenzene	25.41	105	7588	0.062 ng	89
90) 1,2-Dichlorobenzene	25.58	146	1226	N.D. ✓	
91) d-Limonene	25.58	68	10101	0.201 ng	91
92) 1,2-Dibromo-3-Chloropr...	26.07	157	52	N.D. ✓	
93) n-Undecane	26.50	57	109453	1.510 ng	79
94) 1,2,4-Trichlorobenzene	27.62	180	1459	N.D. ✓	
95) Naphthalene	27.77	128	116078	0.699 ng	94
96) n-Dodecane	27.74	57	206949	2.871 ng	82
97) Hexachloro-1,3-butadiene	28.19	225	29258	0.804 ng	96

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(3) Dichlorodifluoromethane (T)

4.975min (+0.011) 0.61ng

response 45701

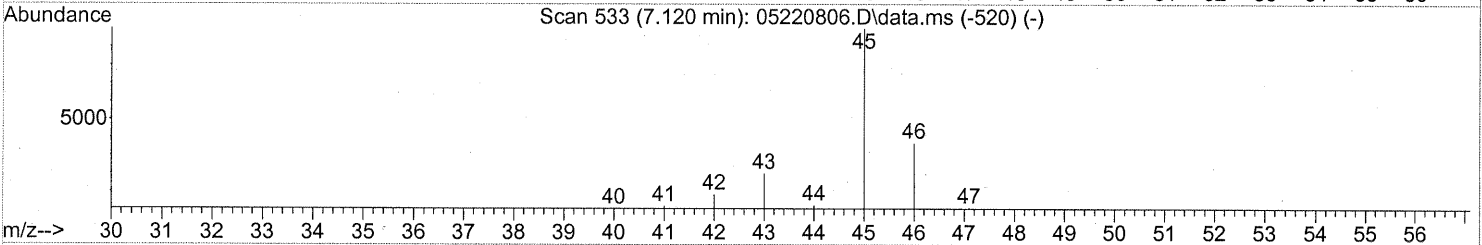
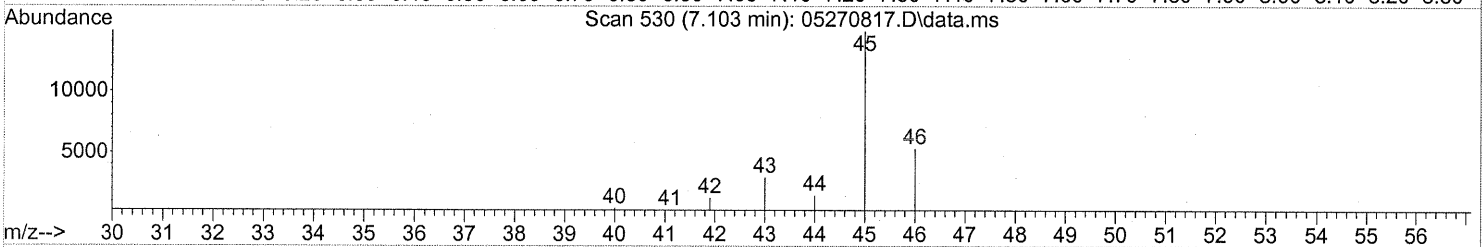
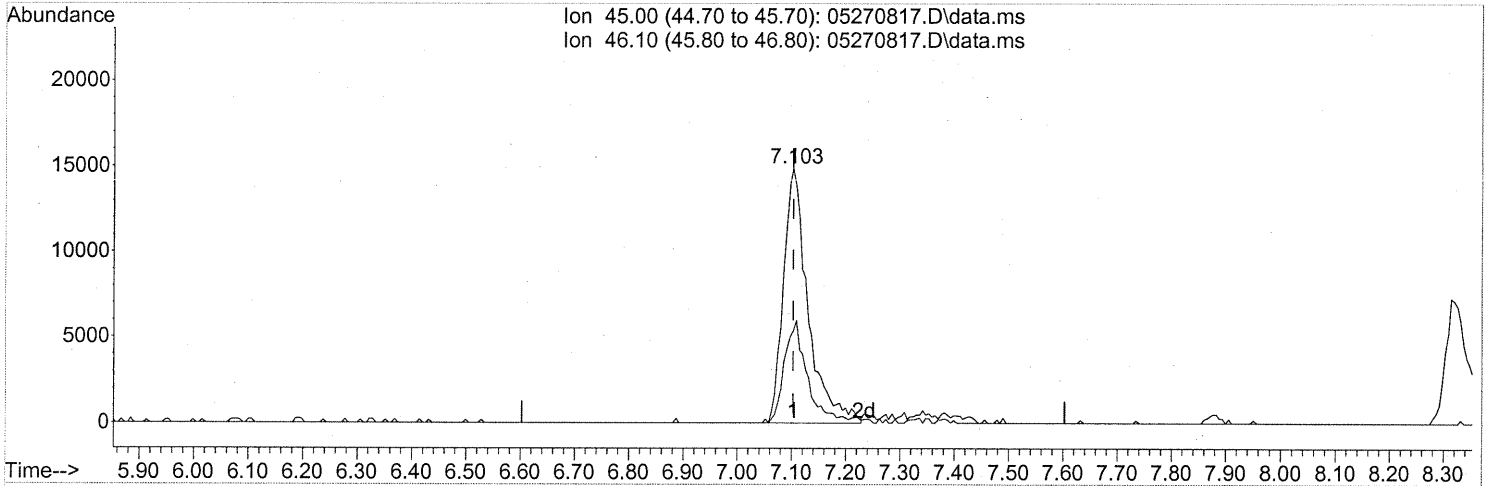
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.11
100.90	9.30	9.71
102.90	6.00	5.83

771

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 20:58
Operator : WA
Sample : P0801483-018 (500ml)
Misc : ENSR SG27B-05 (-3.7, 3.6)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(10) Ethanol (T)

7.103min (-0.000) 1.72ng

response 46485

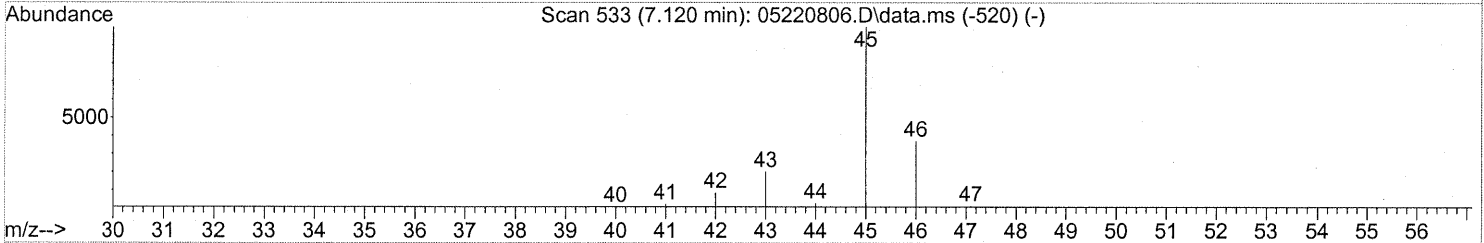
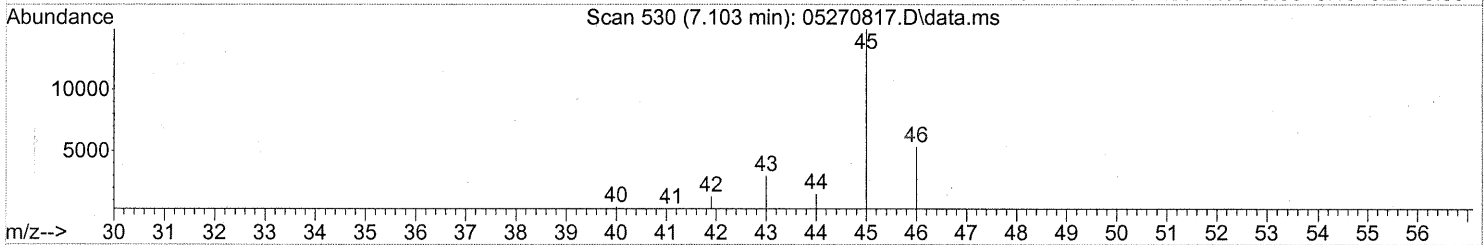
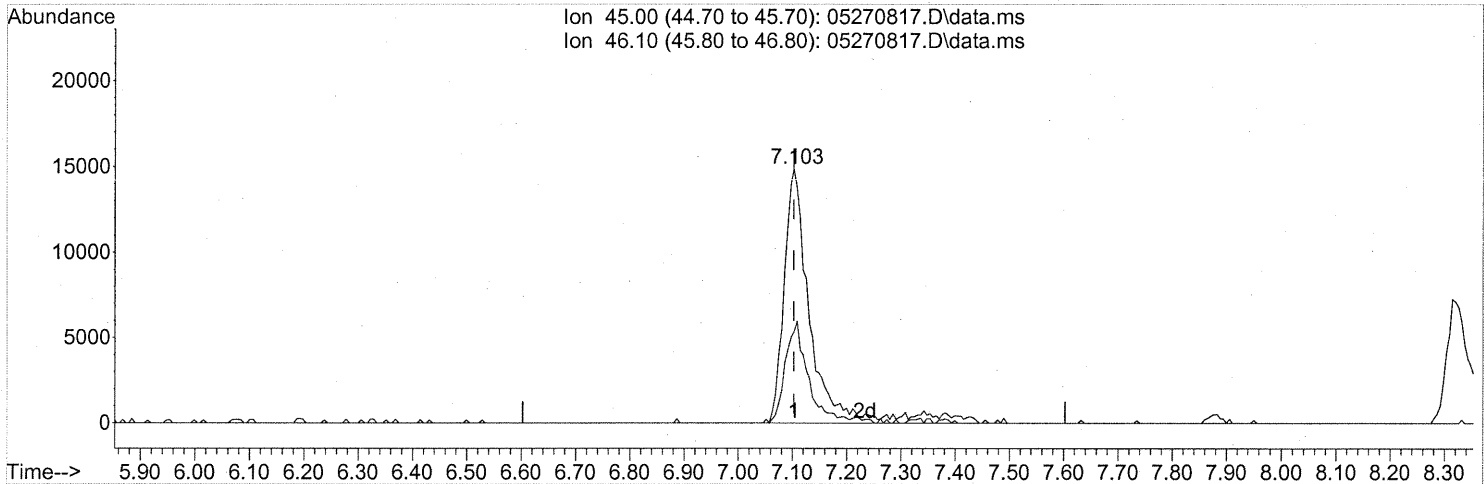
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.80
0.00	0.00	0.00
0.00	0.00	0.00

split / tailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(10) Ethanol (T)

7.103min (-0.000) 1.91ng m

response 51609

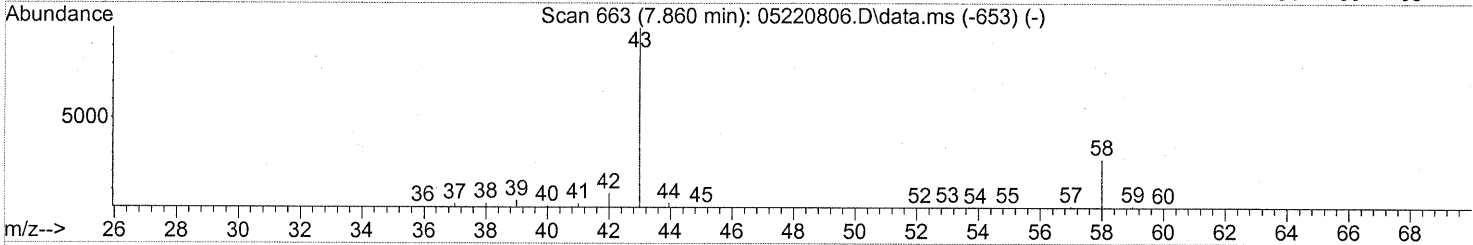
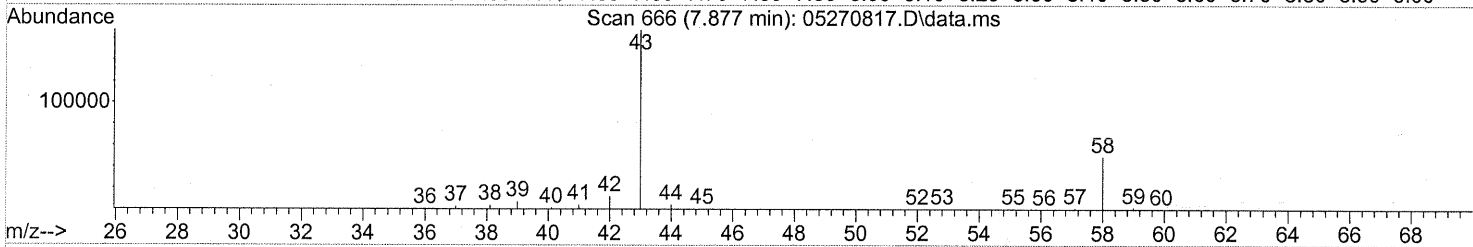
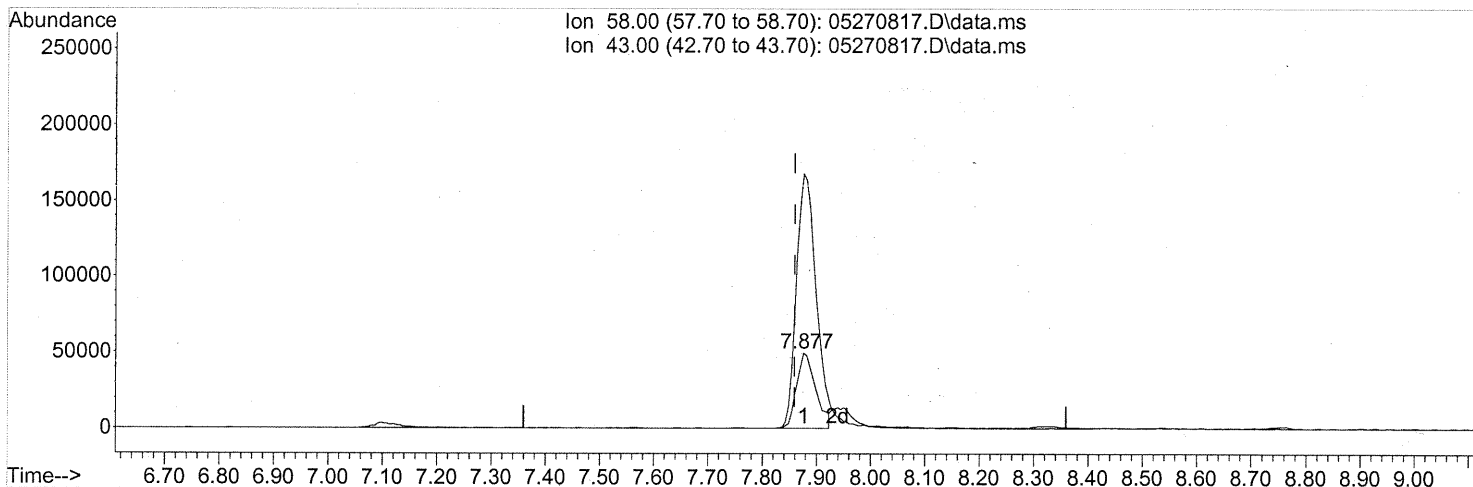
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	33.14
0.00	0.00	0.00
0.00	0.00	0.00

incl - tailing
for 5/31/08
R 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 20:58
Operator : WA
Sample : P0801483-018 (500ml)
Misc : ENSR SG27B-05 (-3.7, 3.6)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(13) Acetone (T)

7.877min (+0.017) 4.35ng

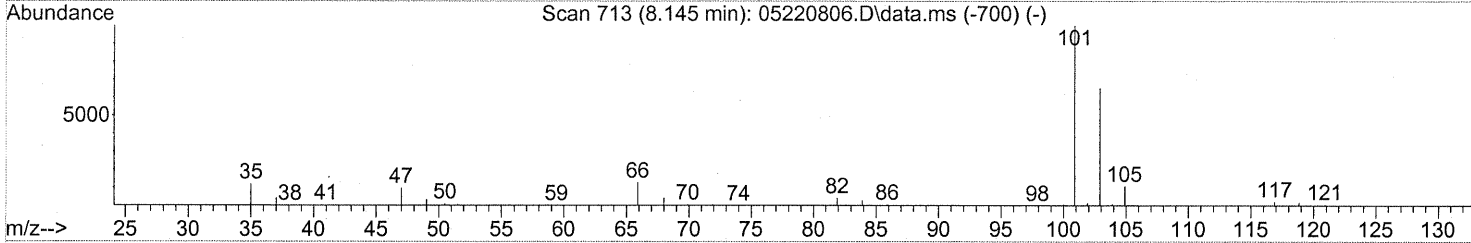
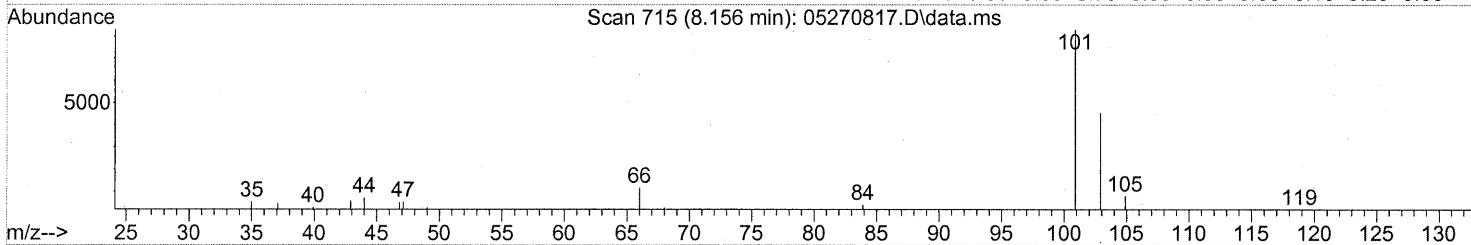
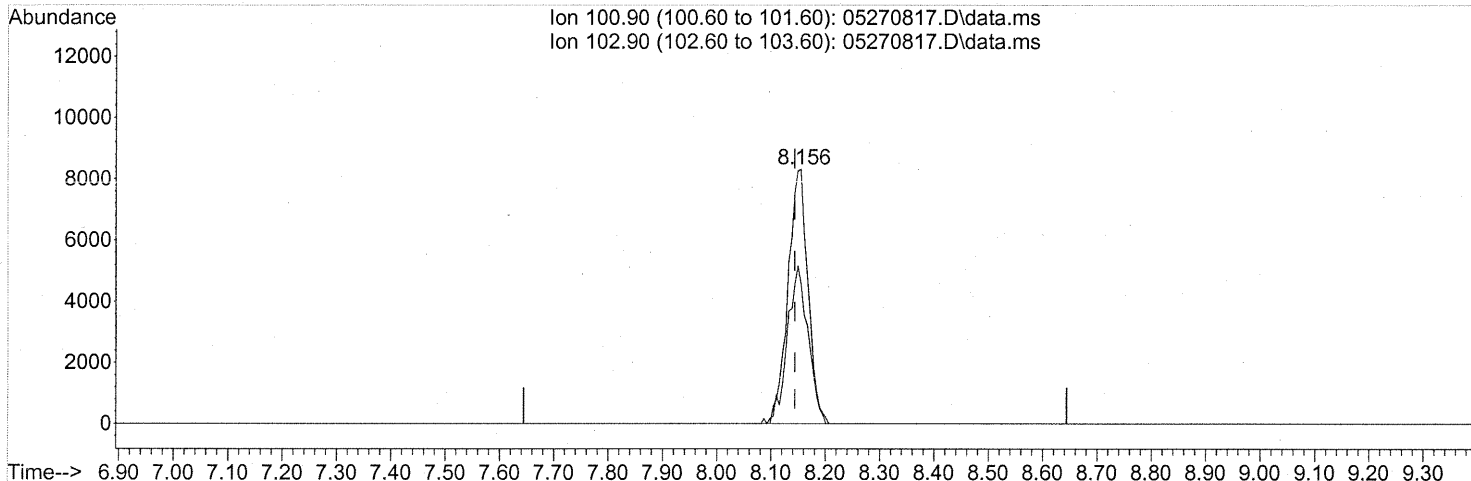
response 120493

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	370.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(14) Trichlorofluoromethane (T)

8.156min (+0.011) 0.33ng

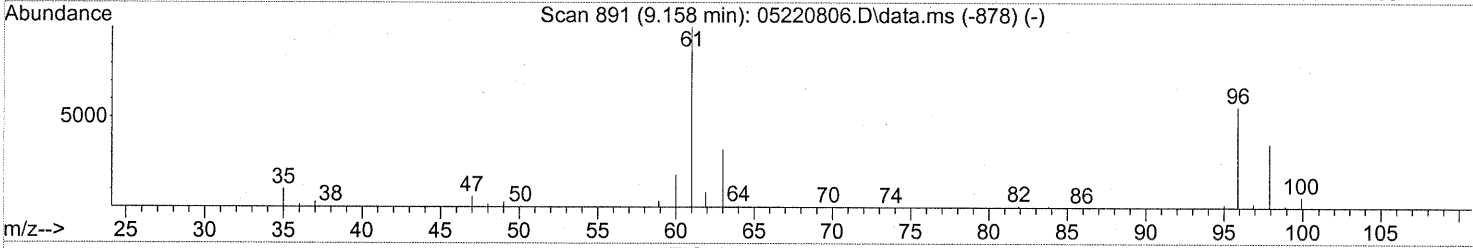
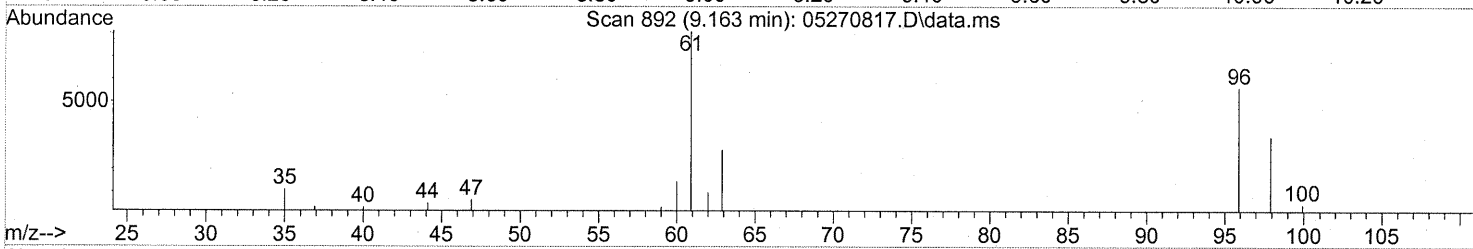
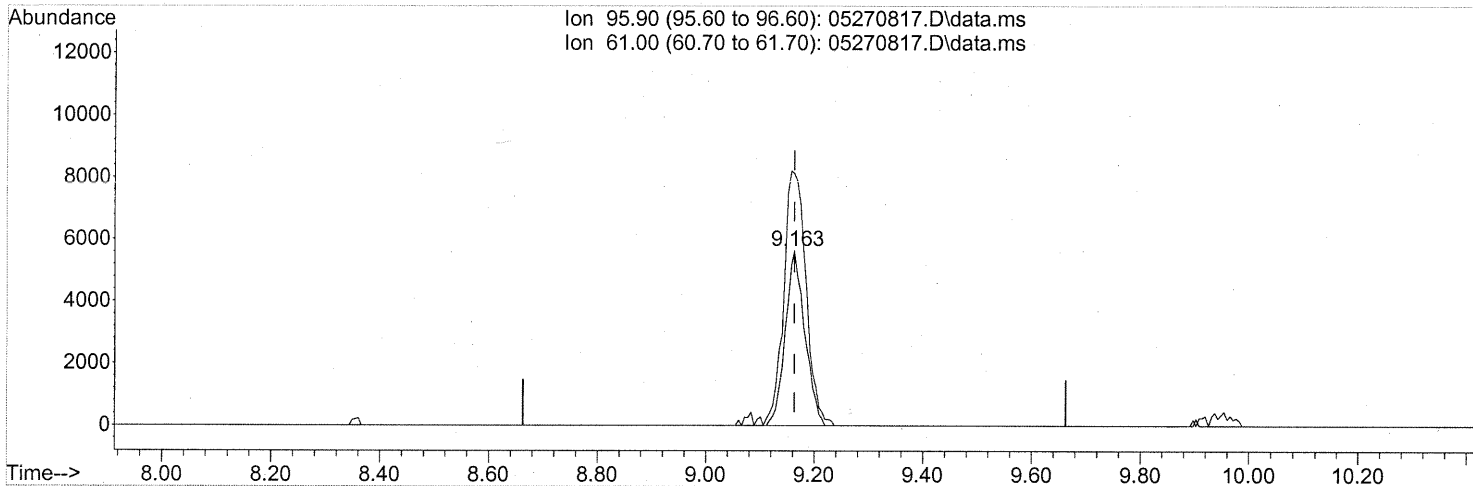
response 21274

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	63.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(17) 1,1-Dichloroethene (T)

9.163min (-0.000) 0.50ng

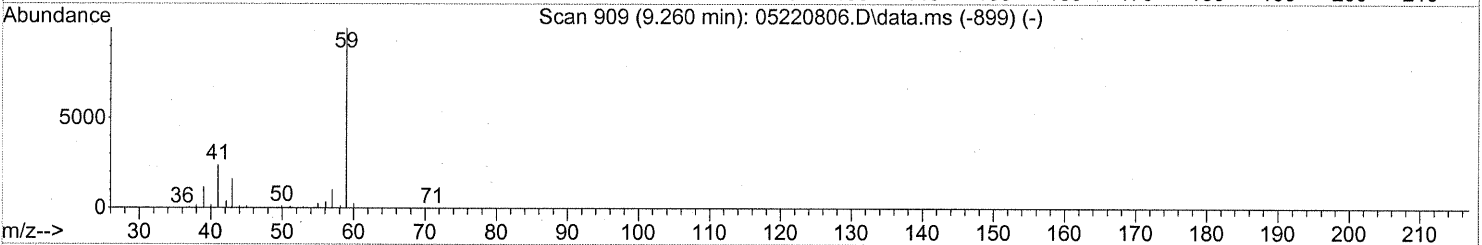
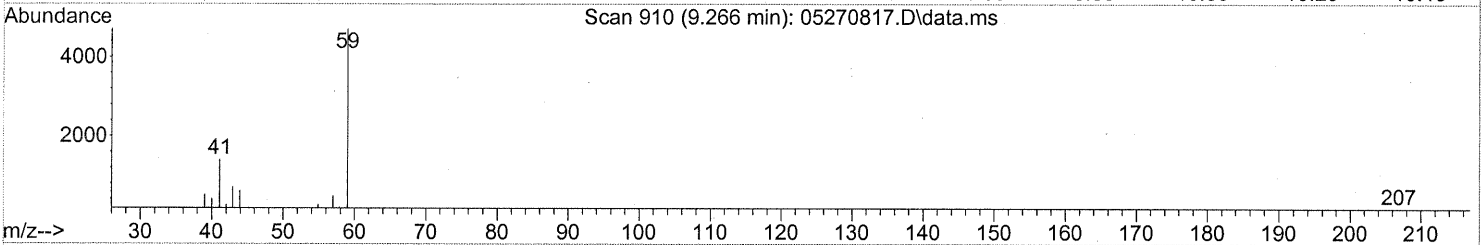
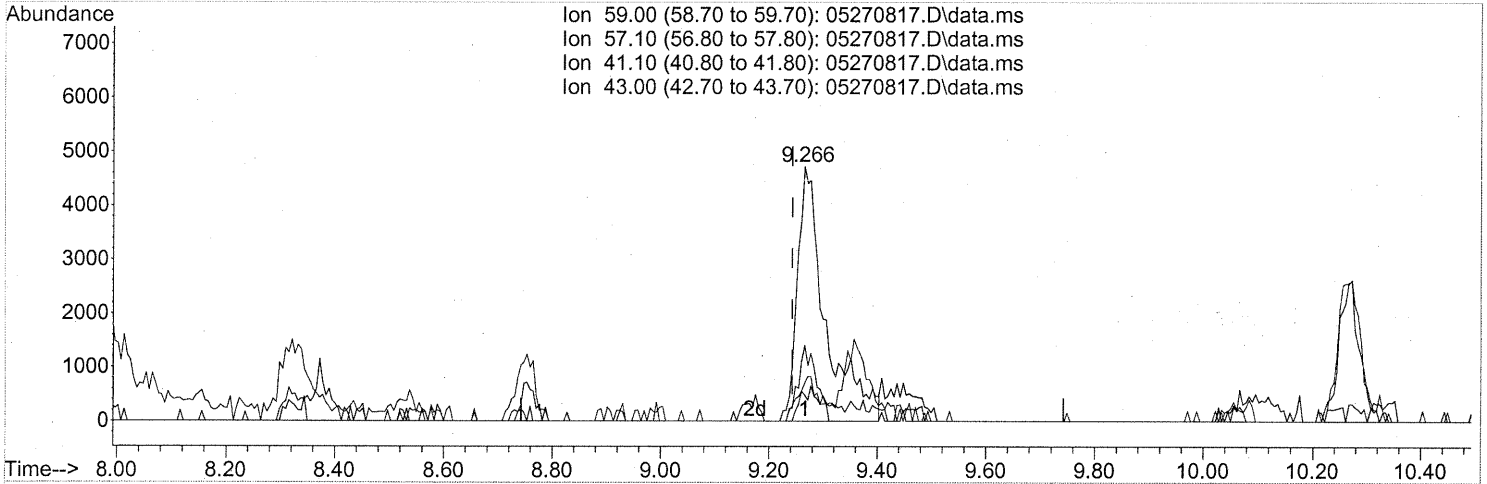
response 14046

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	166.47#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (+0.023) 0.23ng

response 17046

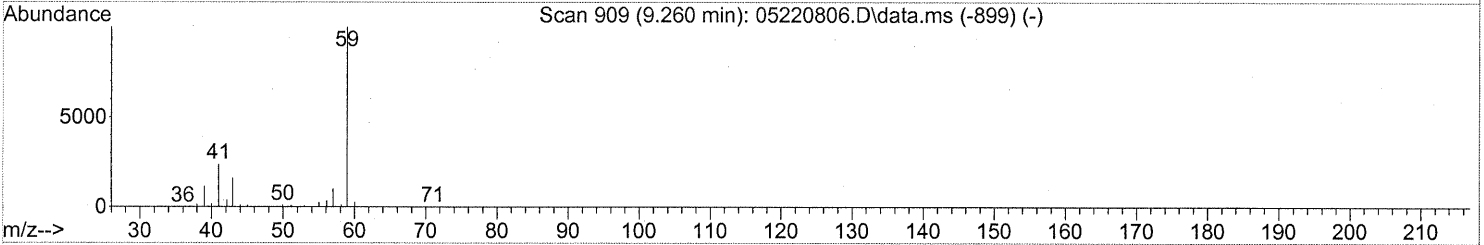
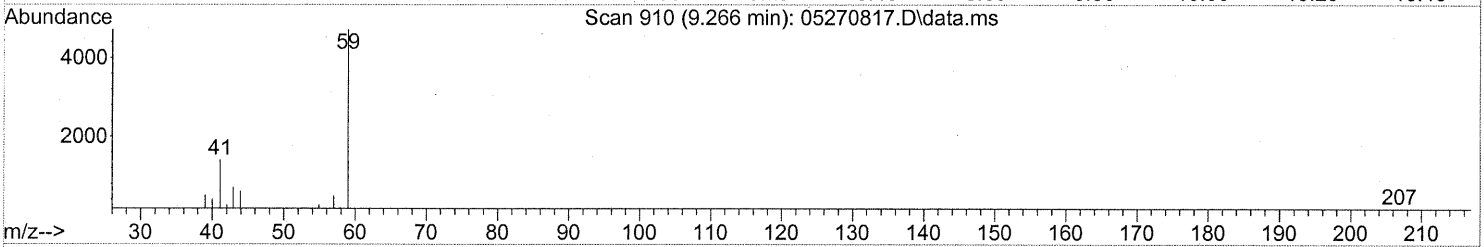
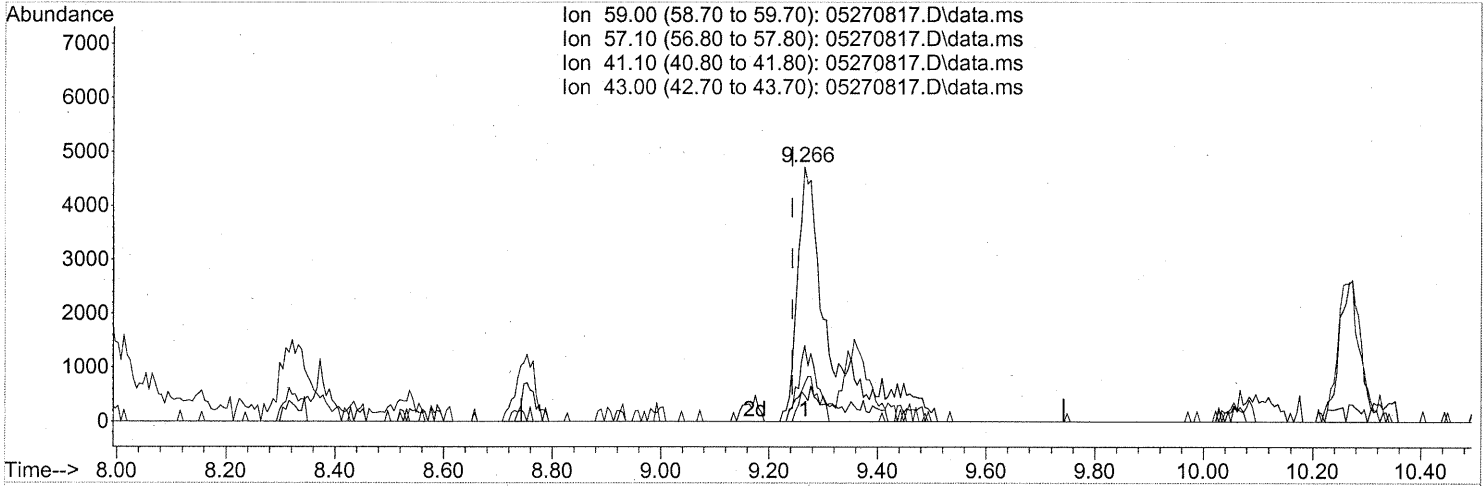
split peaks

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	3.80
41.10	20.10	22.03
43.00	12.30	14.27

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 20:58
Operator : WA
Sample : P0801483-018 (500ml)
Misc : ENSR SG27B-05 (-3.7, 3.6)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)
9.266min (+0.023) 0.26ng m
response 19841

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	3.26
41.10	20.10	18.93
43.00	12.30	12.26

int. whole peaks

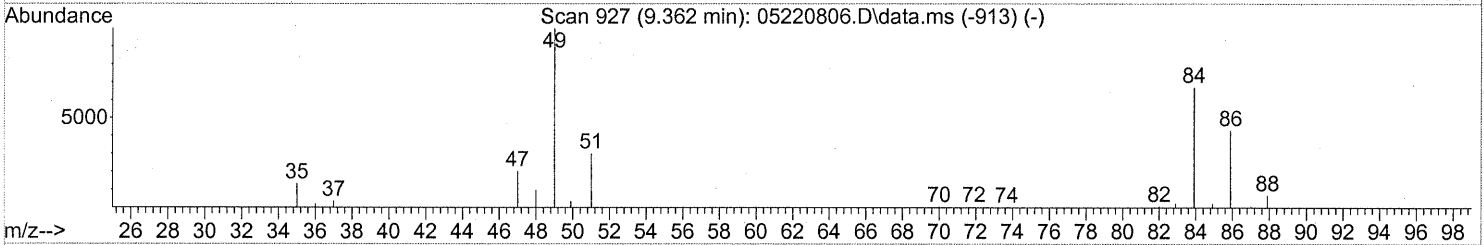
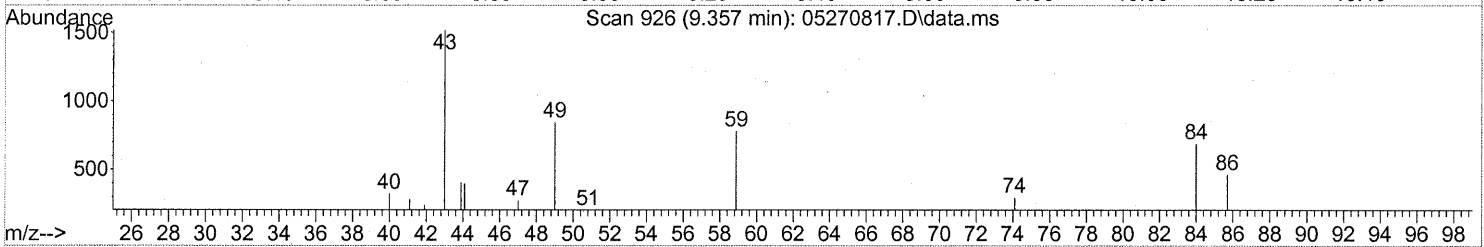
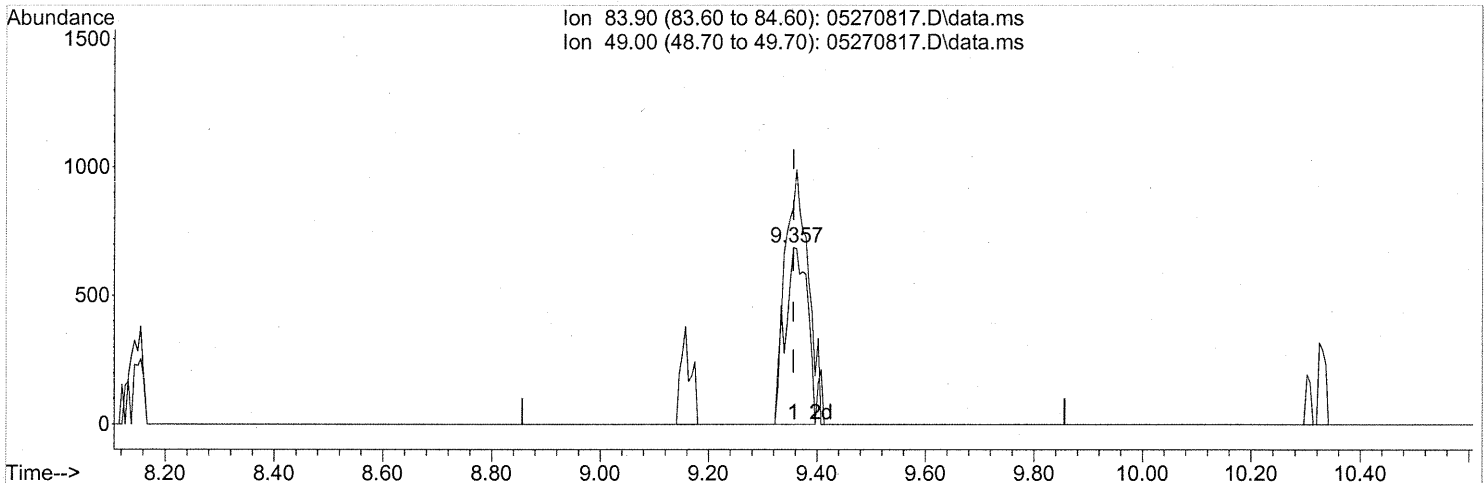
DA 5/31/08

P 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(19) Methylene Chloride (T)

9.357min (-0.000) 0.06ng

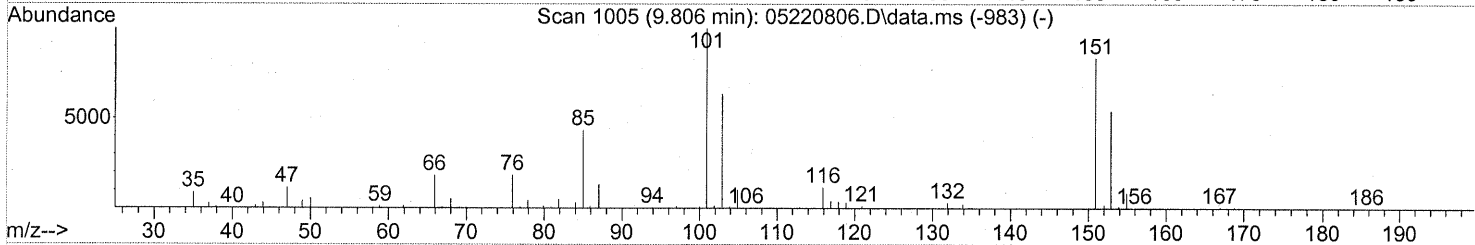
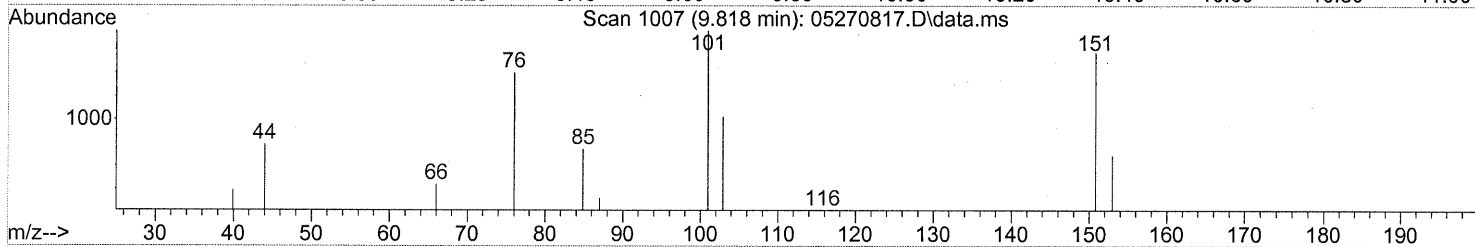
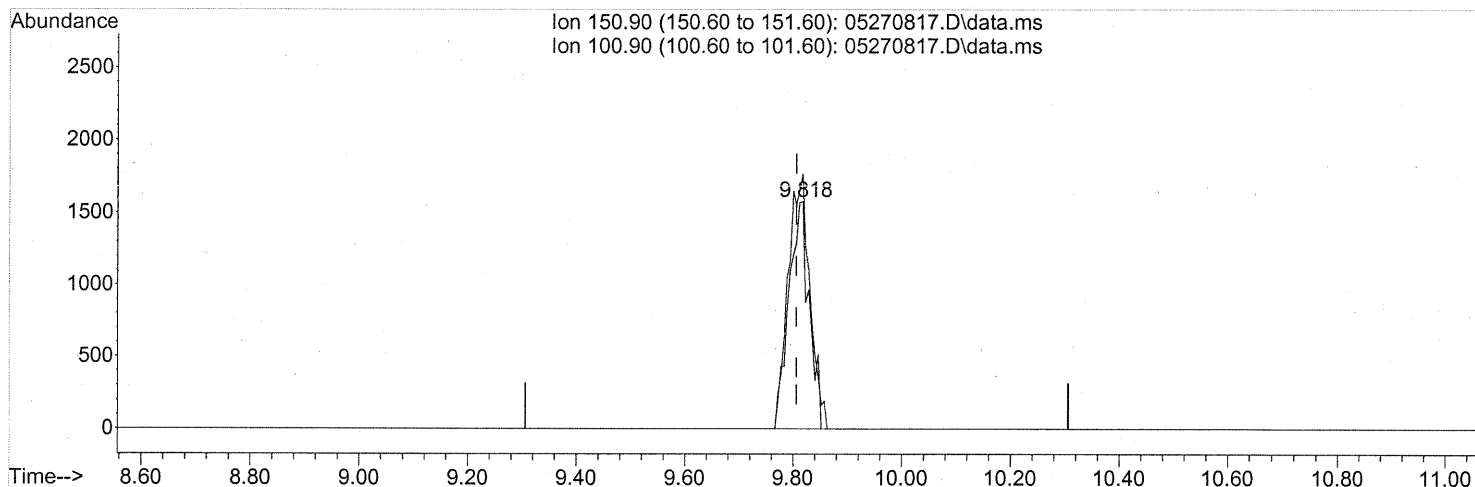
response 1935

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	150.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.818min (+0.011) 0.14ng

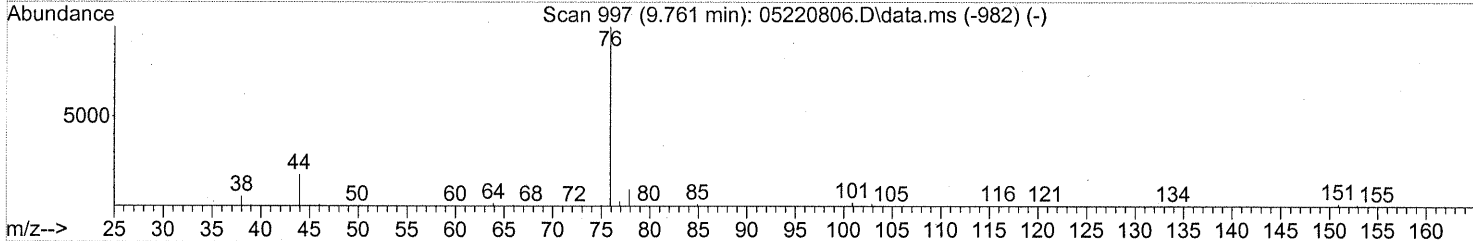
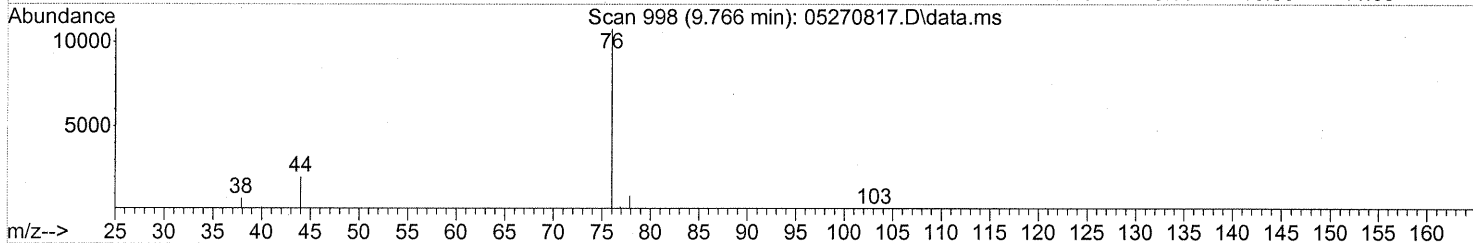
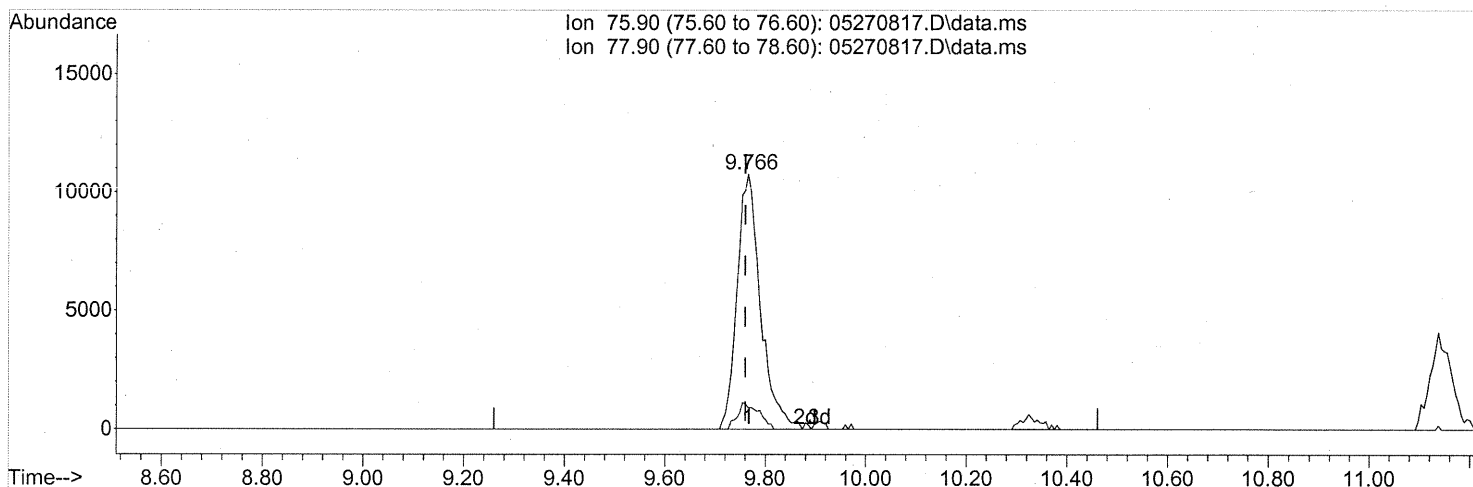
response 4064

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	120.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(22) Carbon Disulfide (T)

9.766min (+0.006) 0.29ng

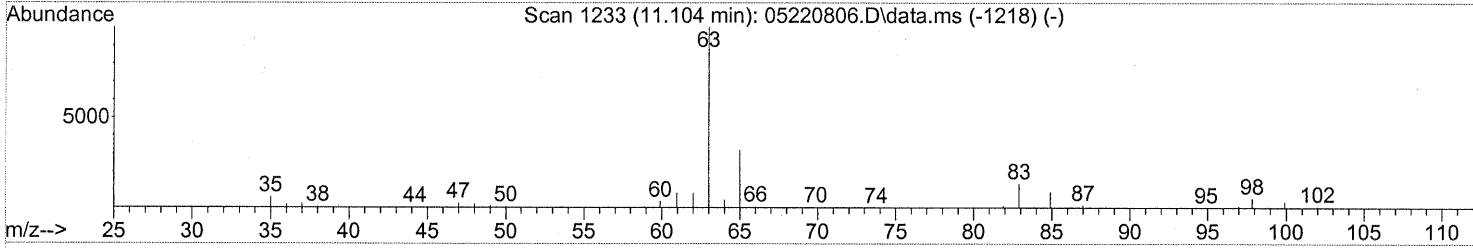
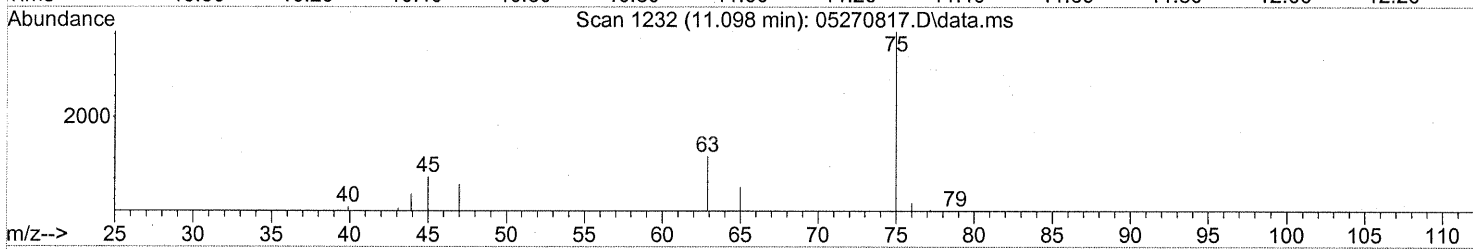
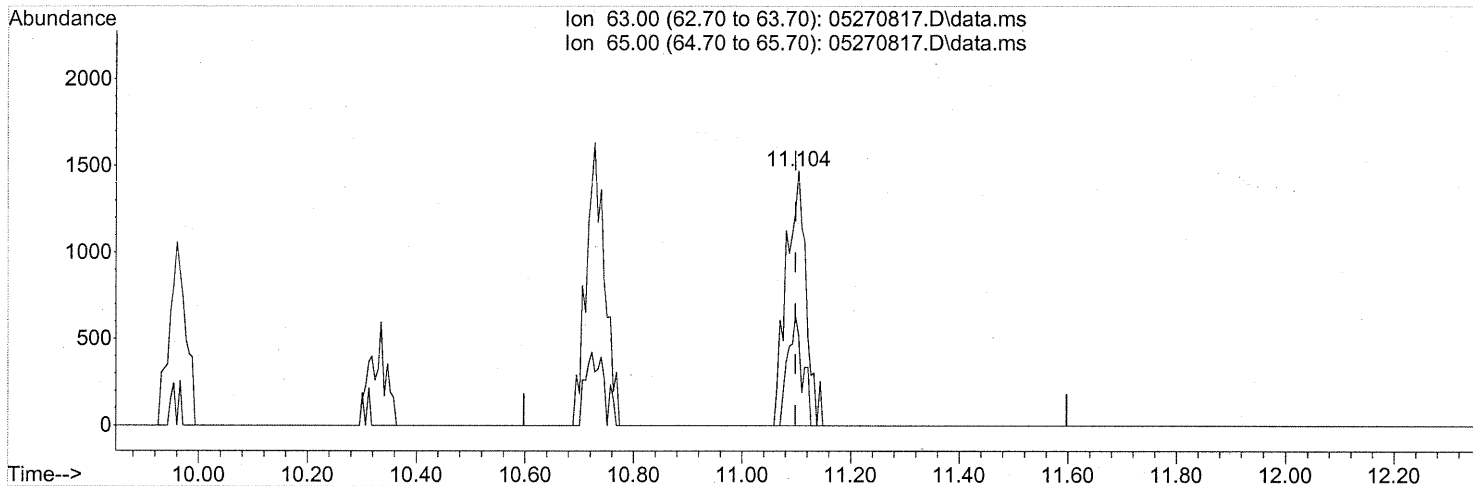
response 34597

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.104min (+0.006) 0.07ng

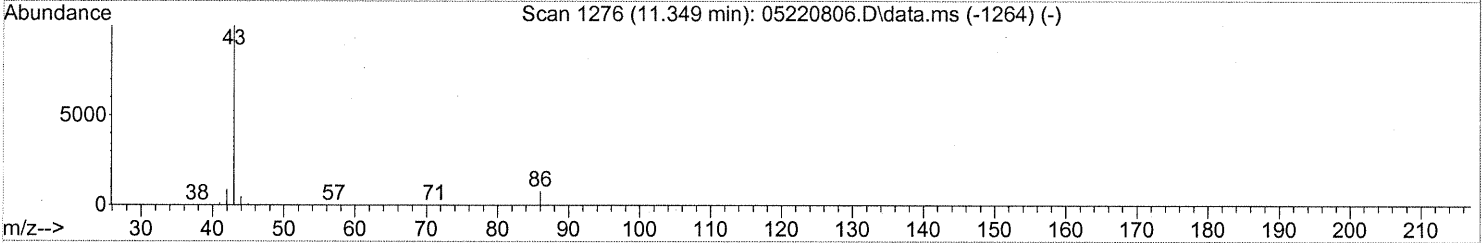
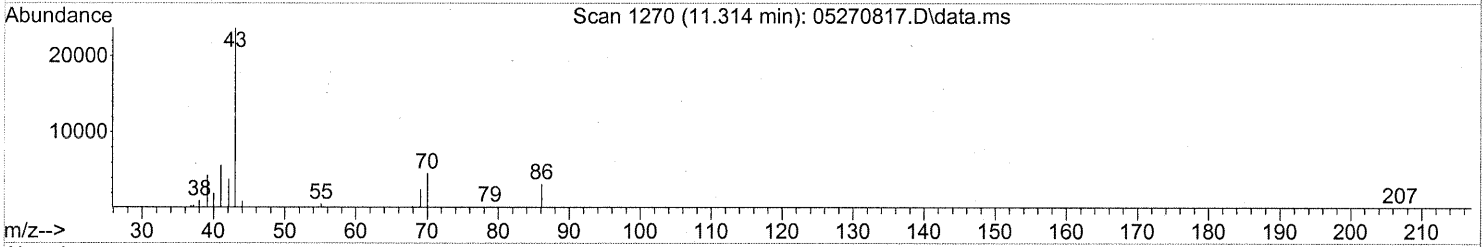
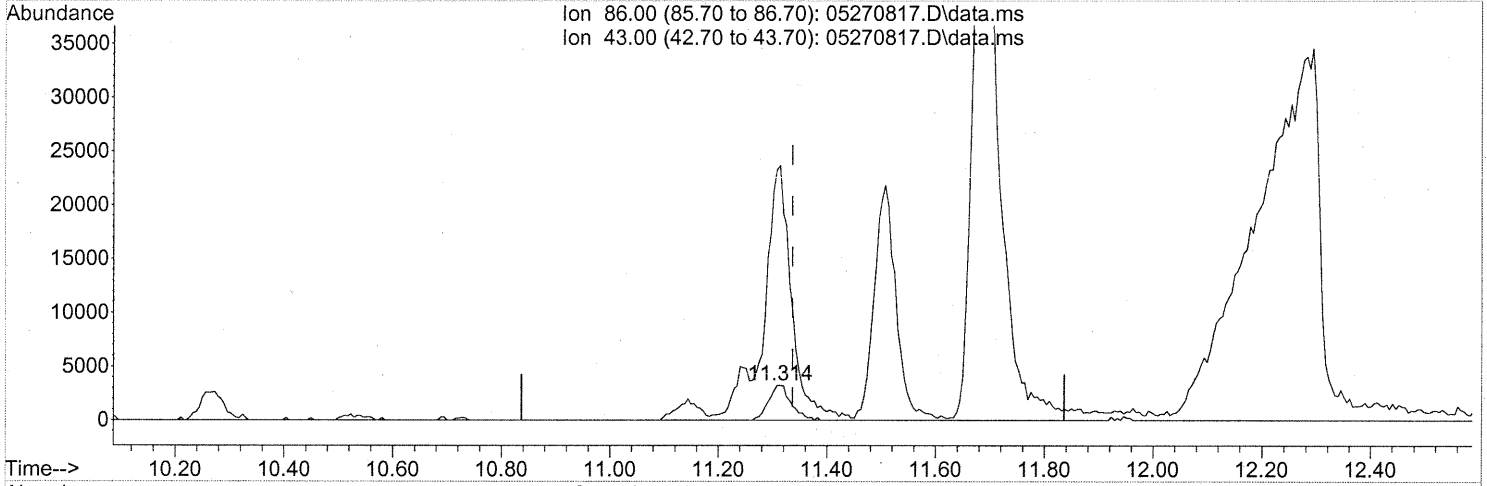
response 3687

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	32.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(26) Vinyl Acetate (T)

11.314min (-0.023) 1.80ng

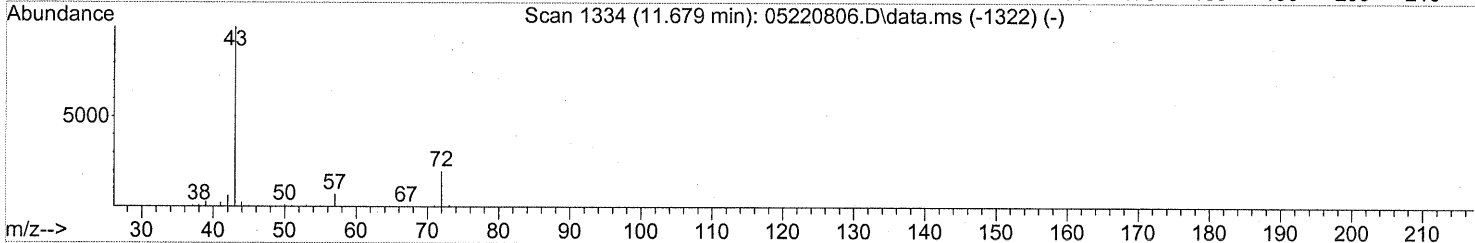
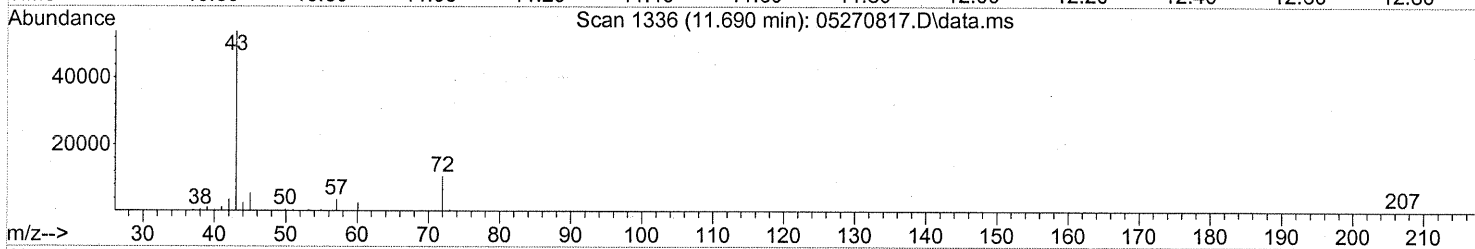
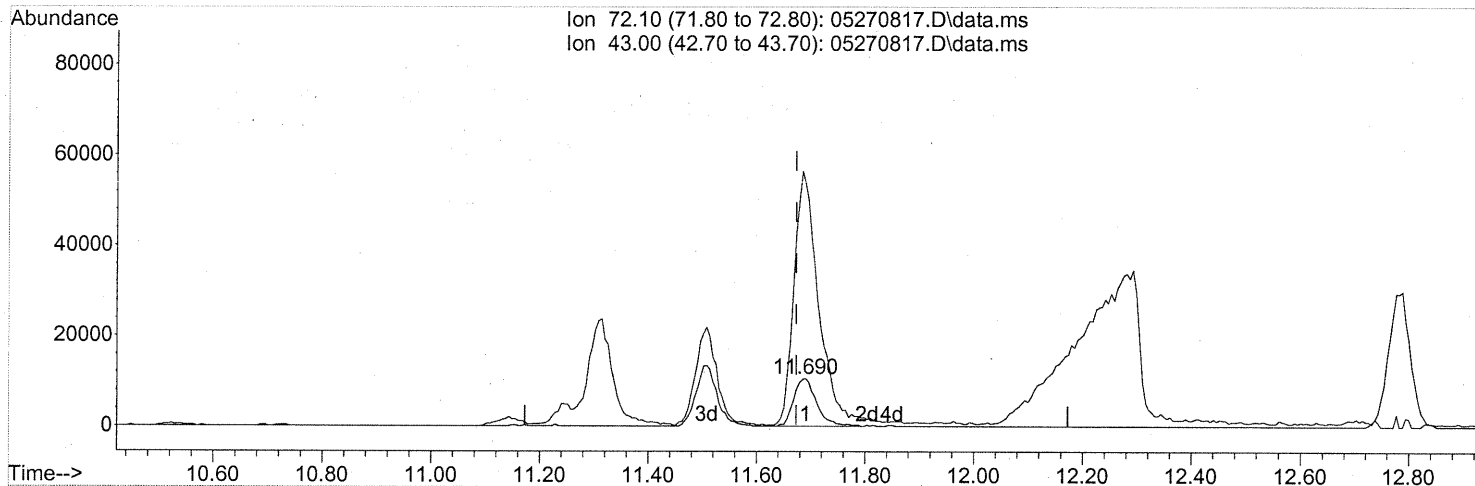
response 9205

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	780.55#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

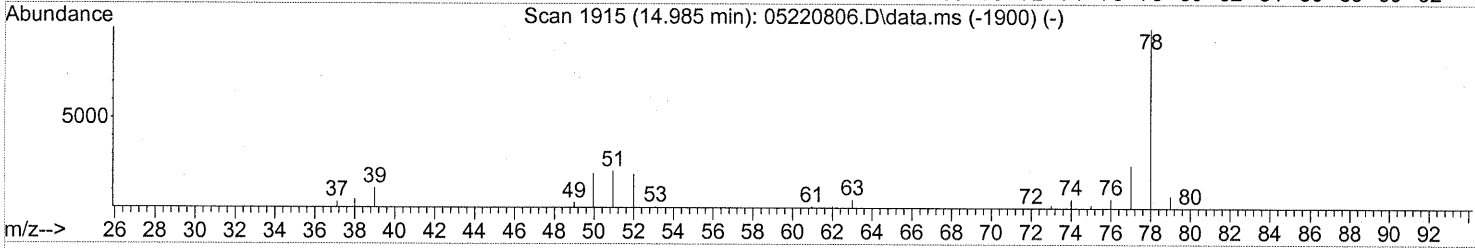
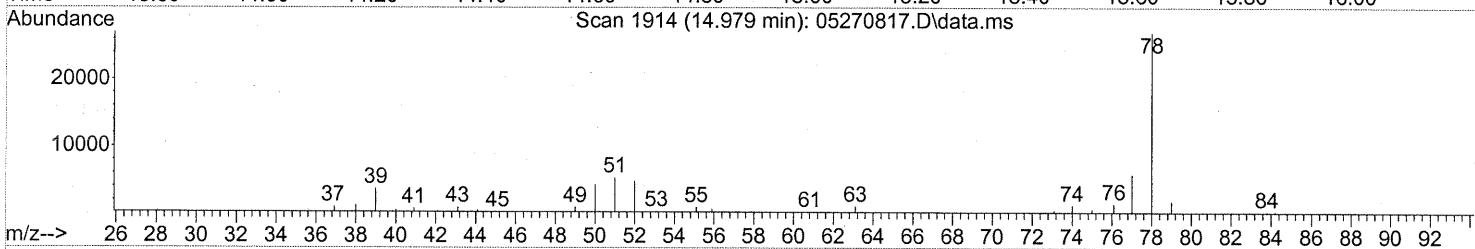
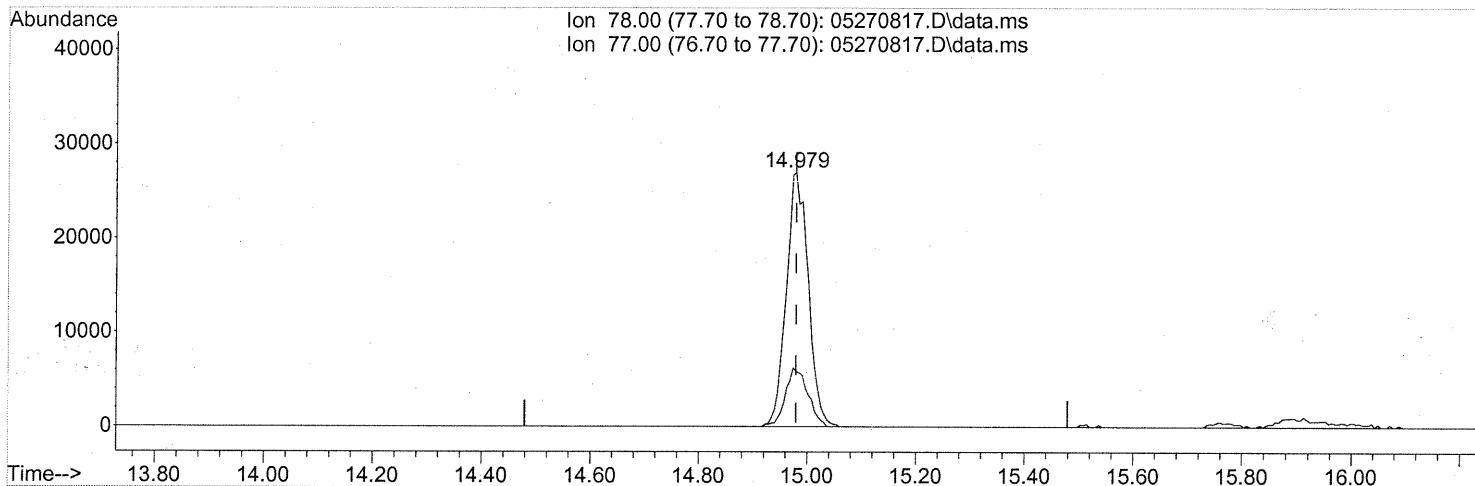
(27) 2-Butanone (T)
 11.690min (+0.017) 1.52ng
 response 30730

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	597.51#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



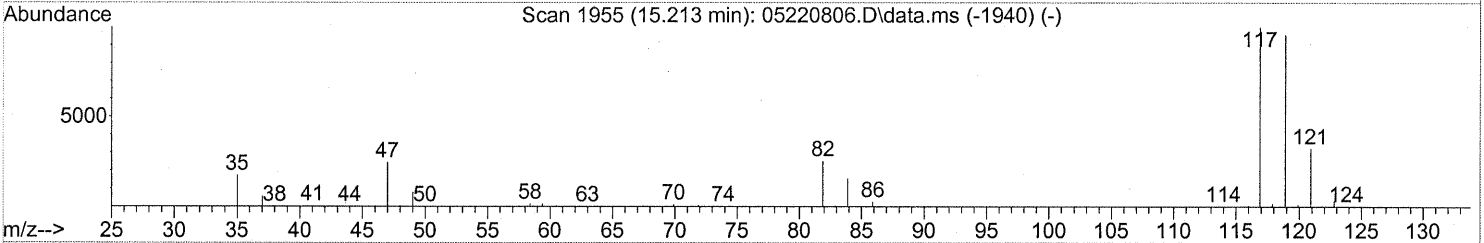
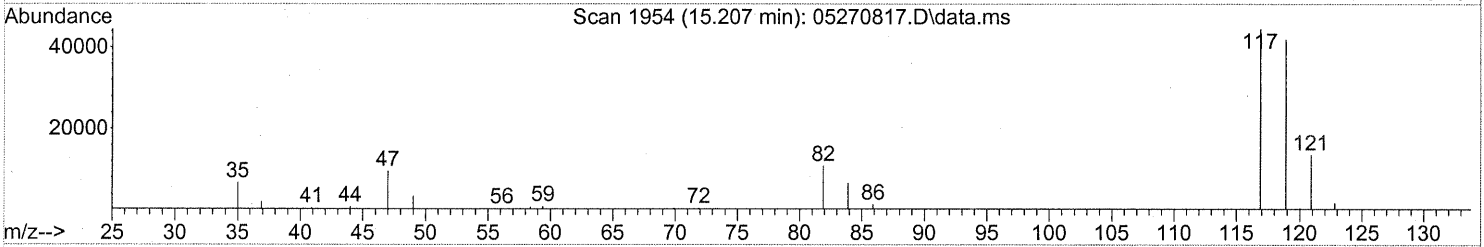
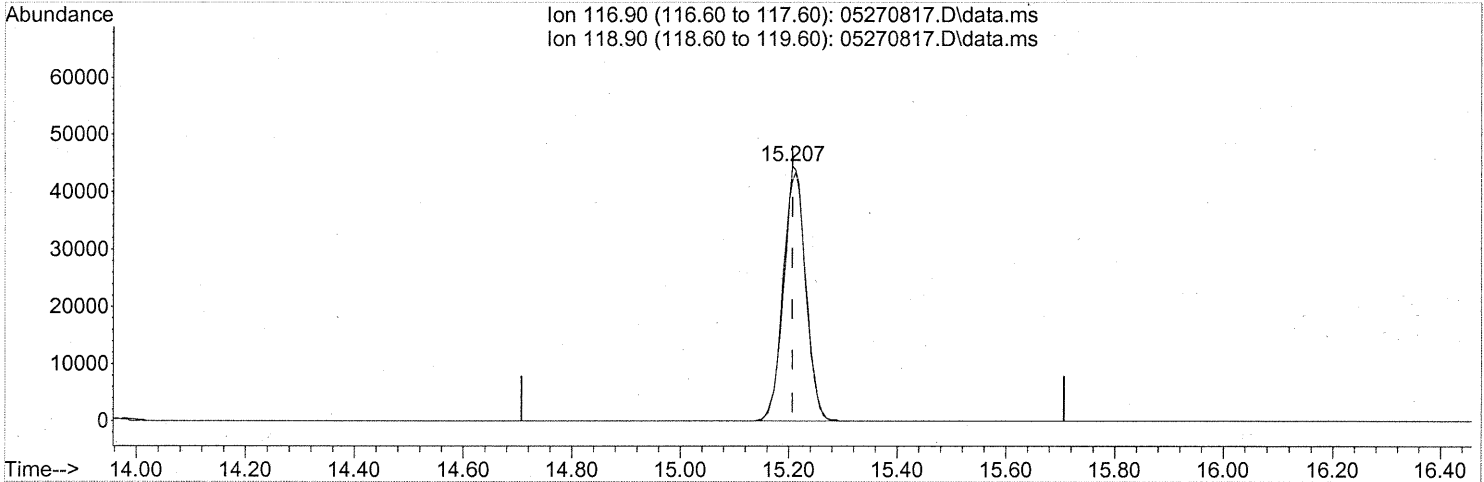
(41) Benzene (T)
 14.979min (-0.000) 0.66ng
 response 75191

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(42) Carbon Tetrachloride (T)

15.207min (-0.000) 2.93ng

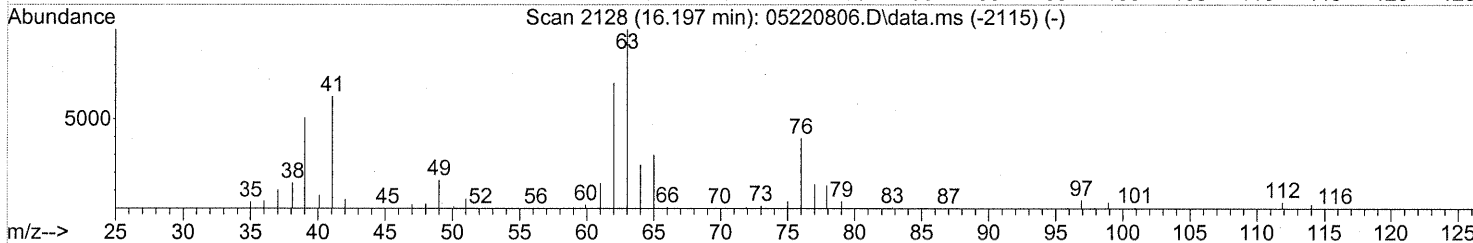
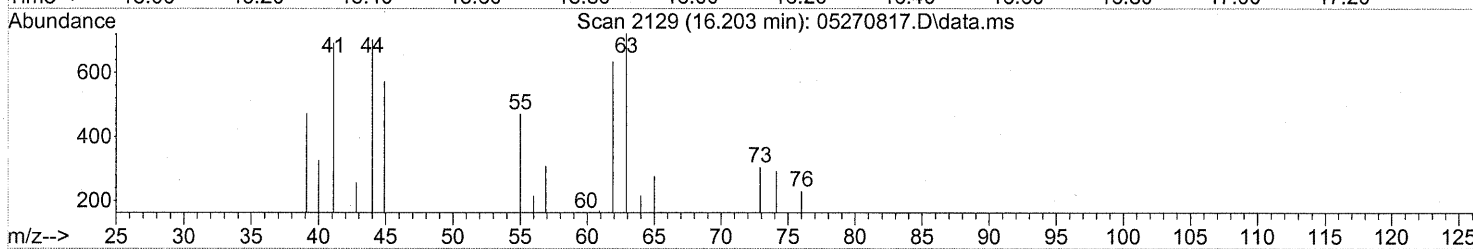
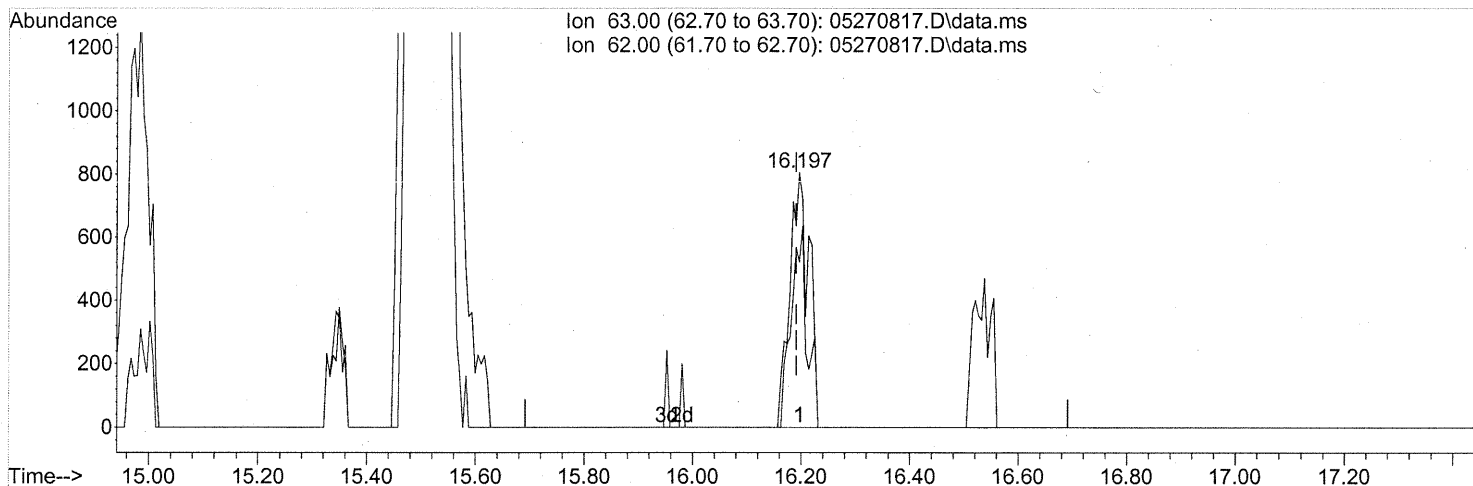
response 128040

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	96.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(45) 1,2-Dichloropropane (T)

16.197min (+0.006) 0.06ng

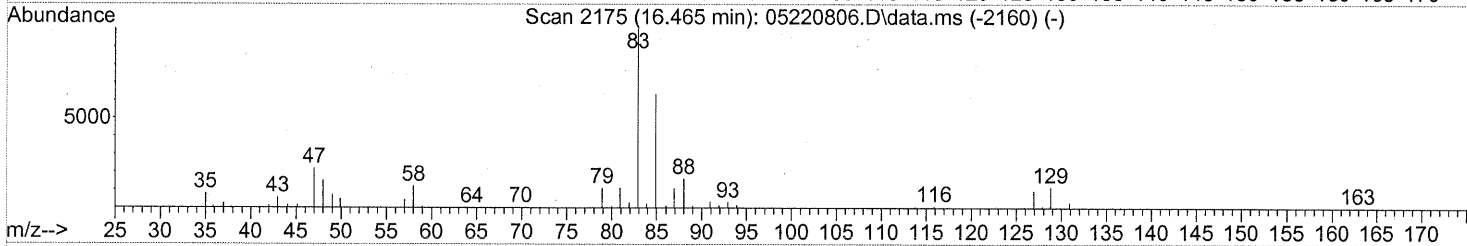
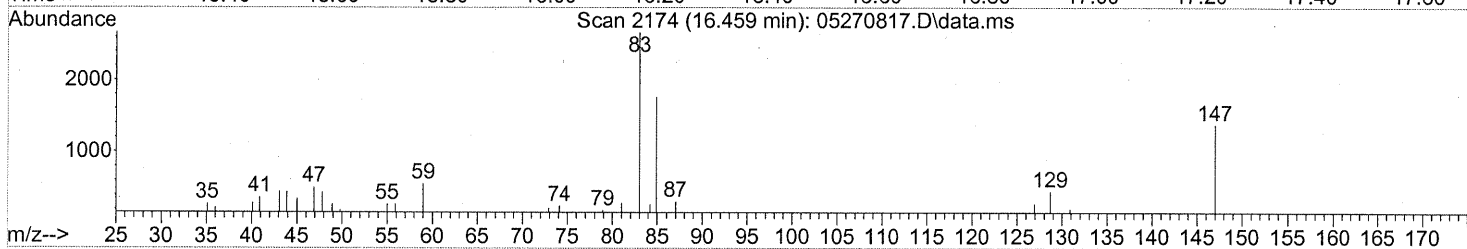
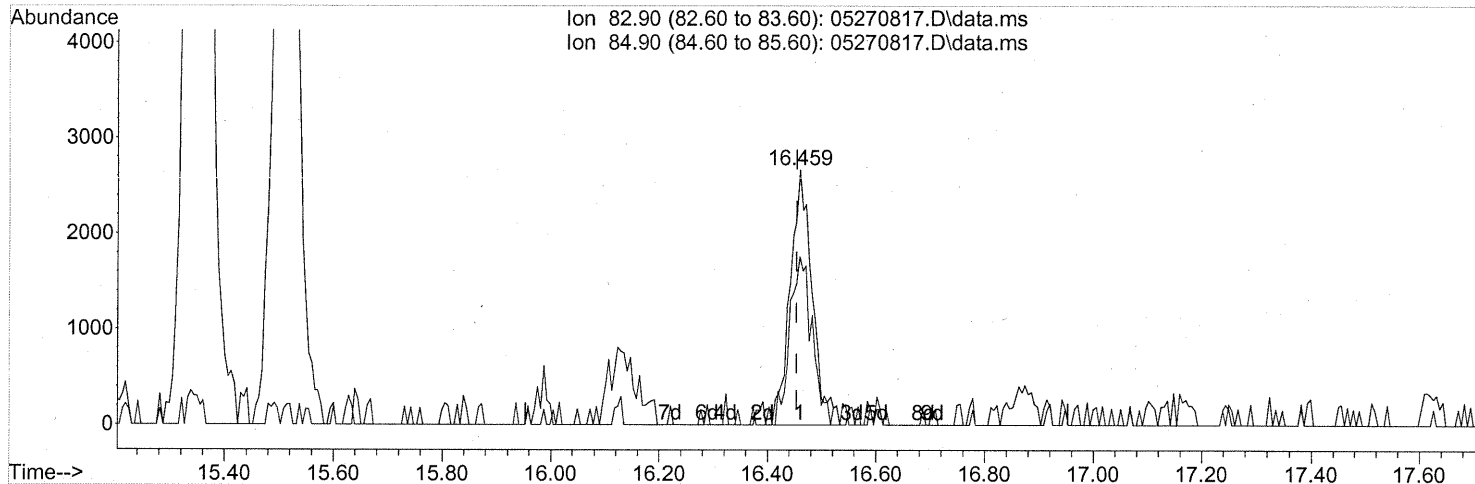
response 1971

Ion	Exp%	Act%
63.00	100	100
62.00	71.30	66.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR_SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.20ng

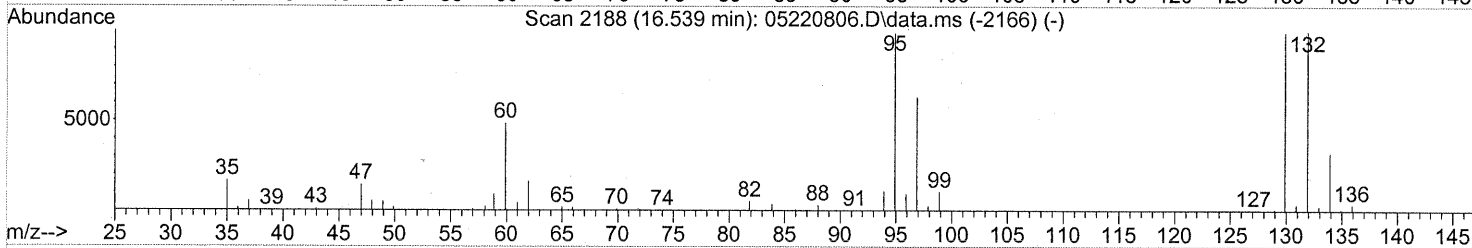
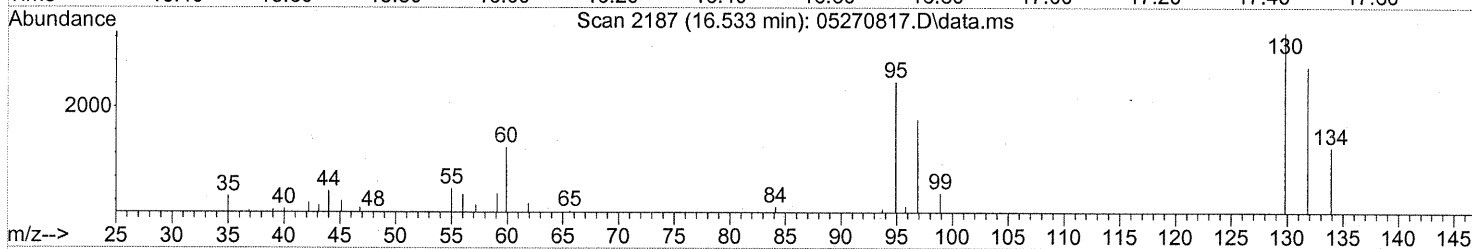
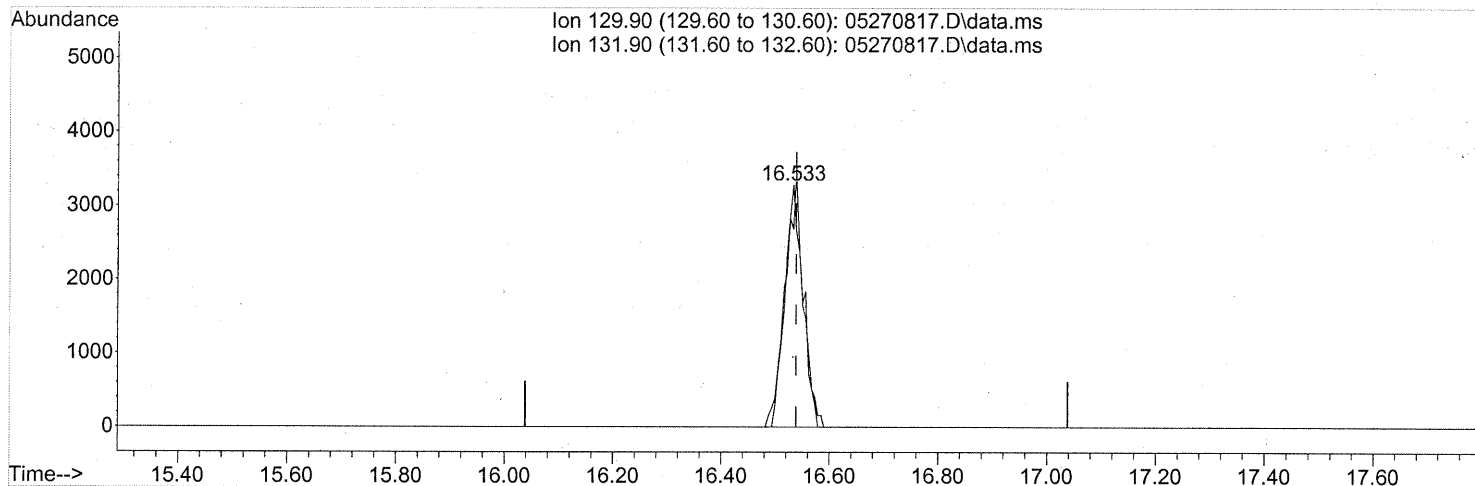
response 7484

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	66.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 20:58
Operator : WA
Sample : P0801483-018 (500ml)
Misc : ENSR SG27B-05 (-3.7, 3.6)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

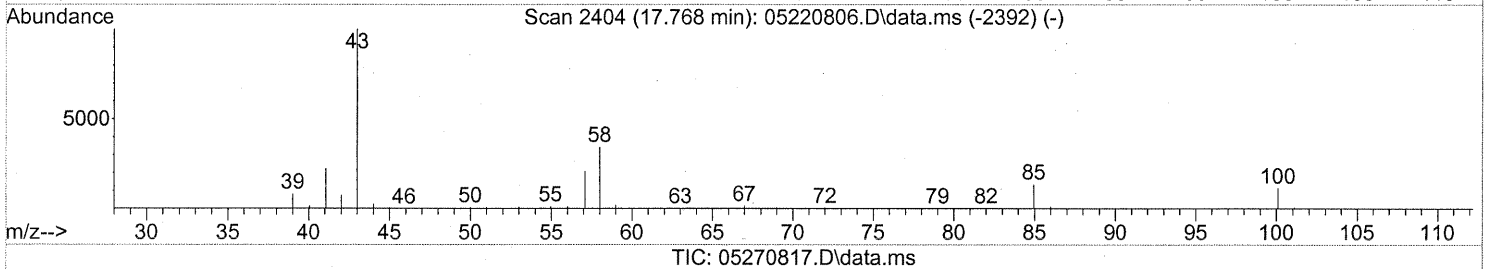
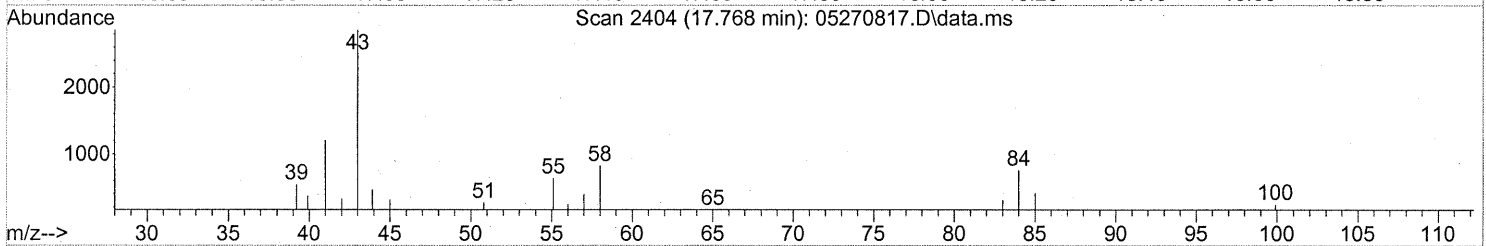
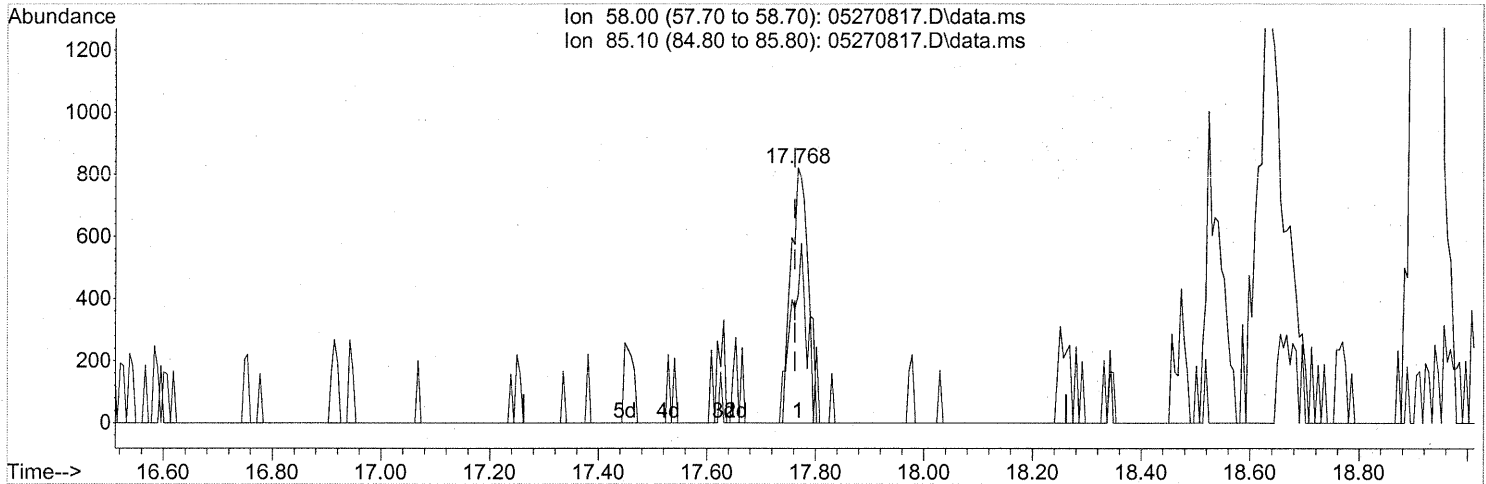
(47) Trichloroethene (T)
16.533min (-0.006) 0.22ng
response 7704

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.768min (+0.006) 0.06ng

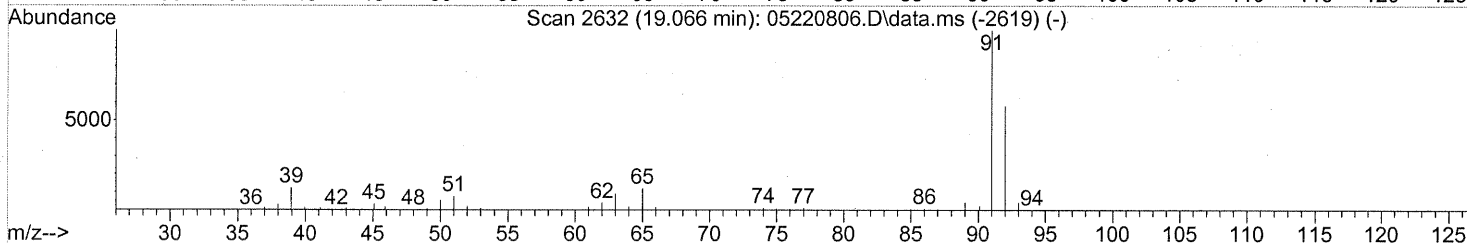
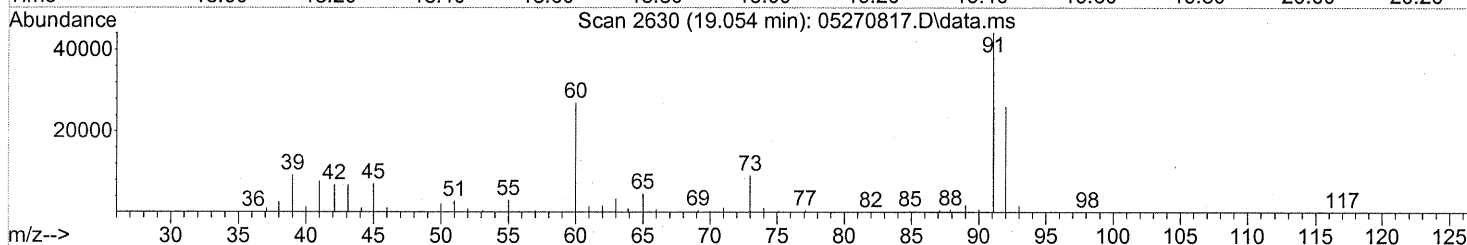
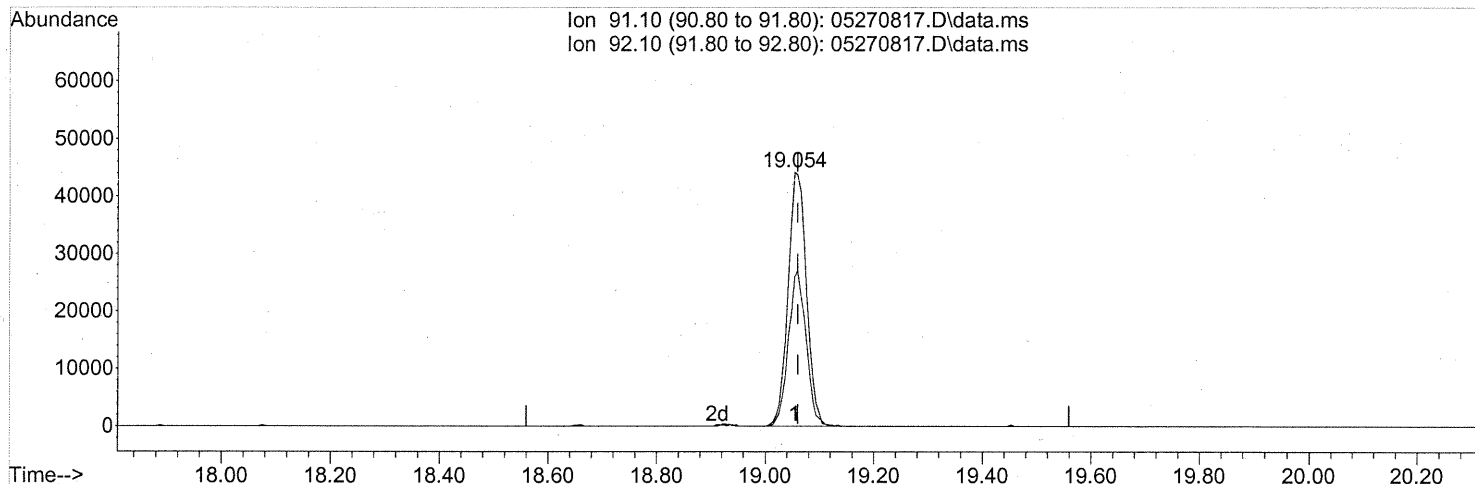
response 1818

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	66.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(58) Toluene (T)

19.054min (-0.006) 0.83ng

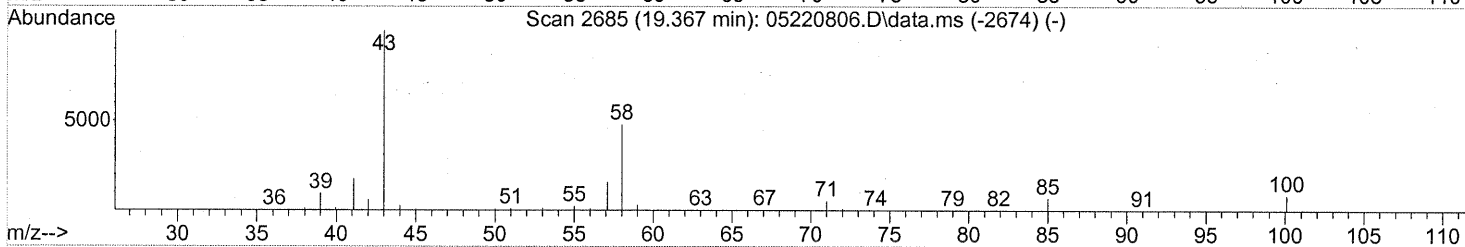
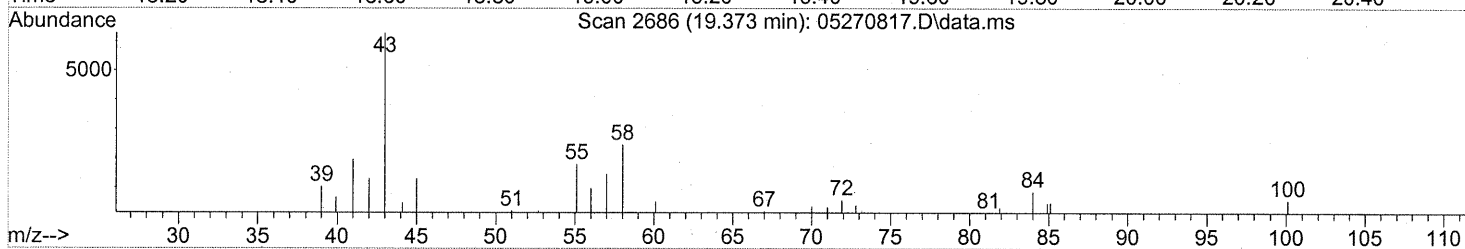
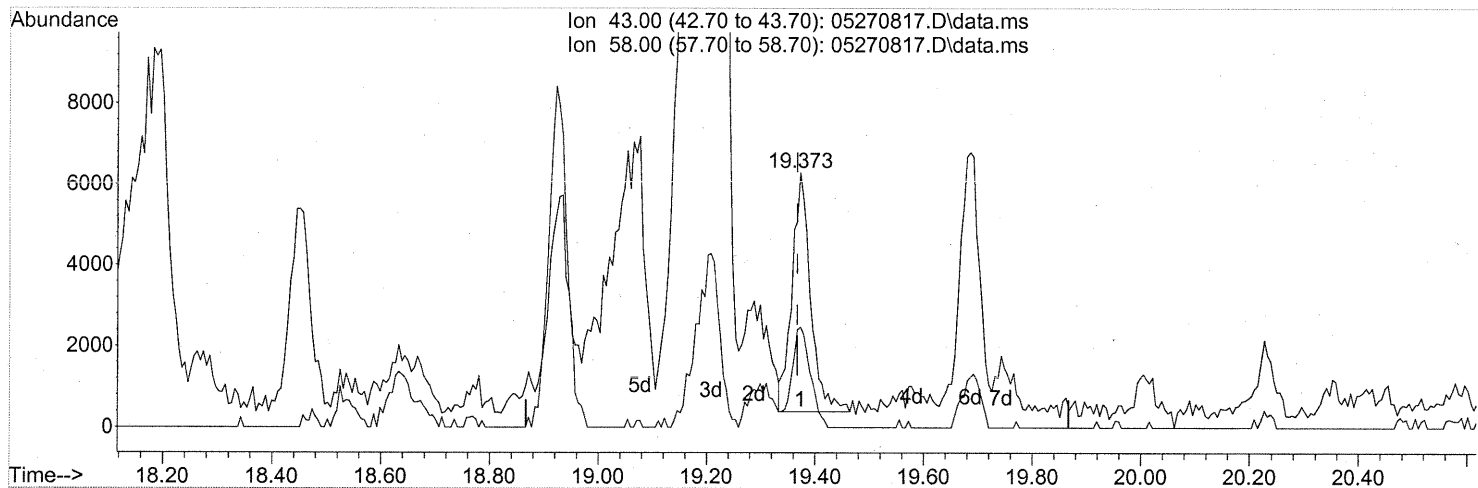
response 103240

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(59) 2-Hexanone (T)

19.373min (+0.006) 0.16ng

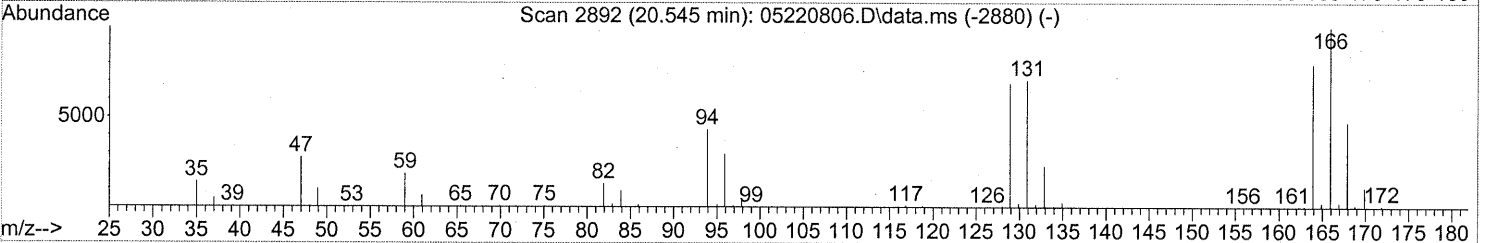
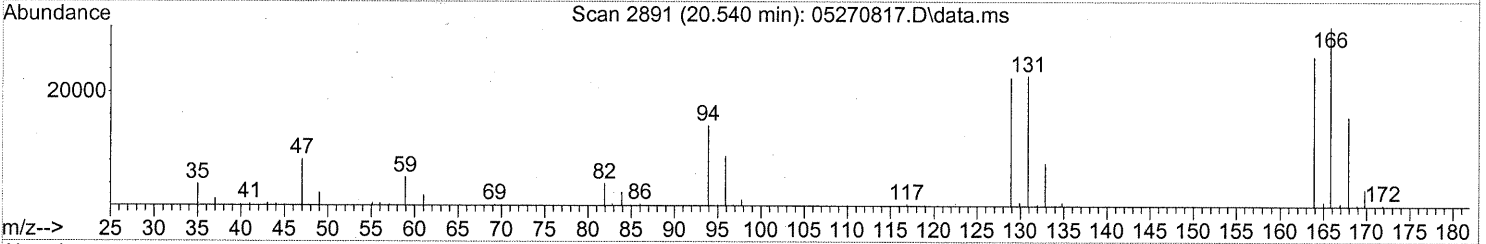
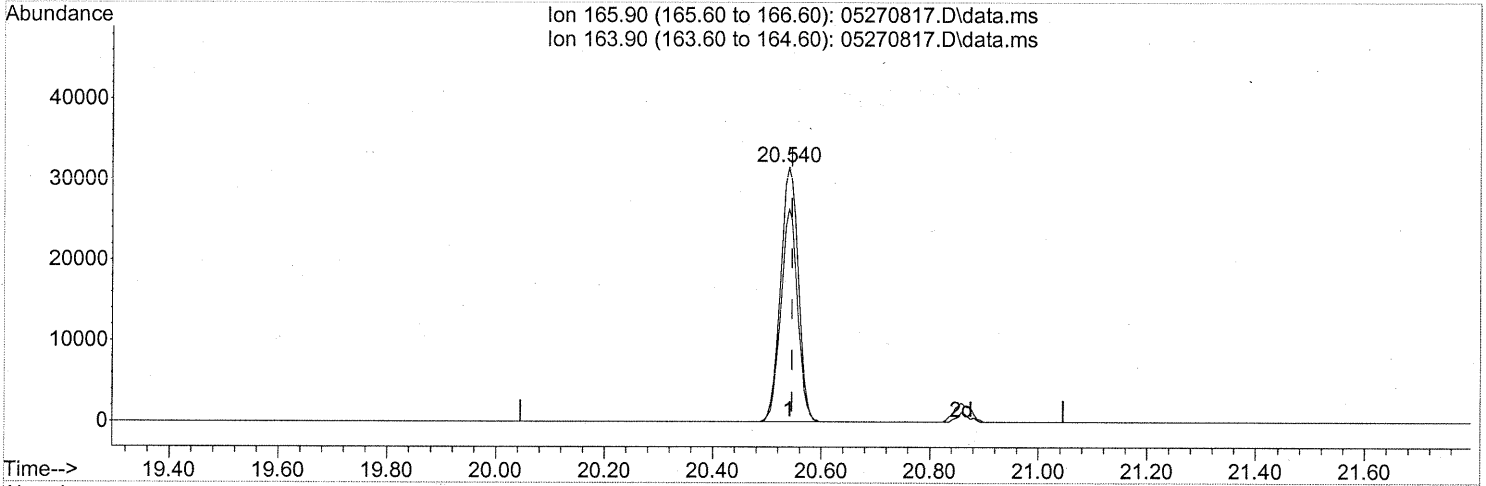
response 13994

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	41.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 1.93ng

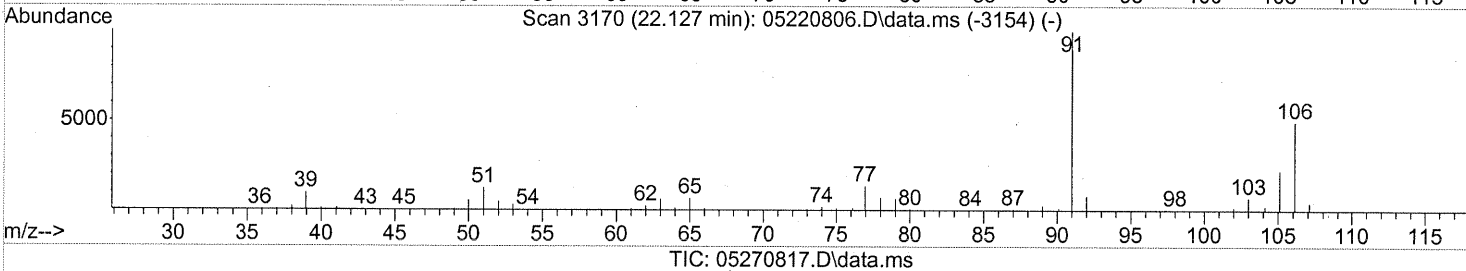
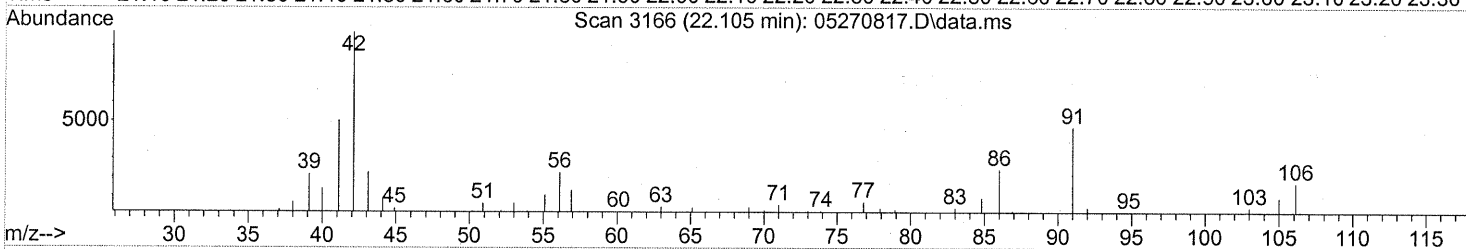
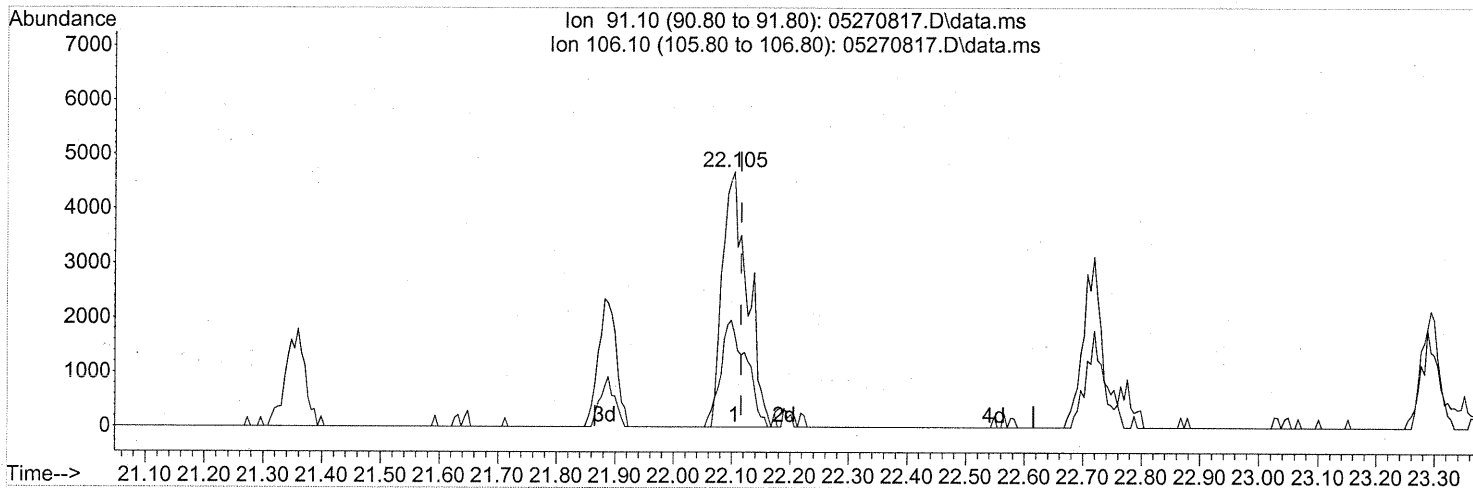
response 71447

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(67) m- & p-Xylene (T)

22.105min (-0.012) 0.15ng

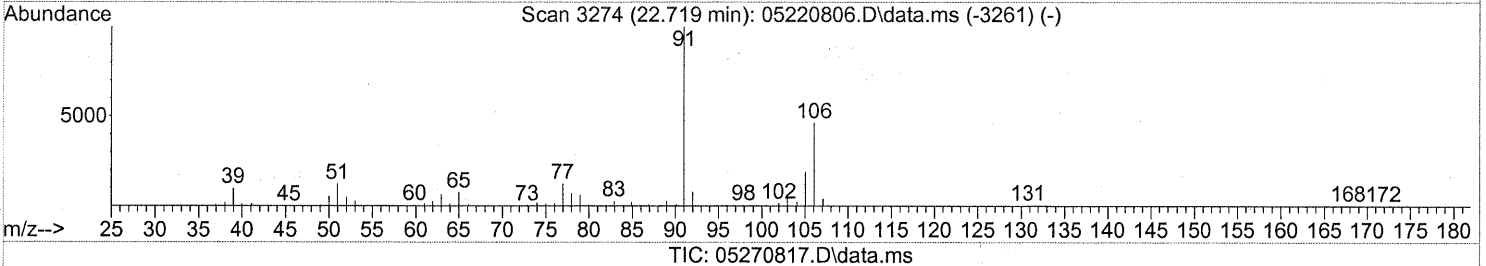
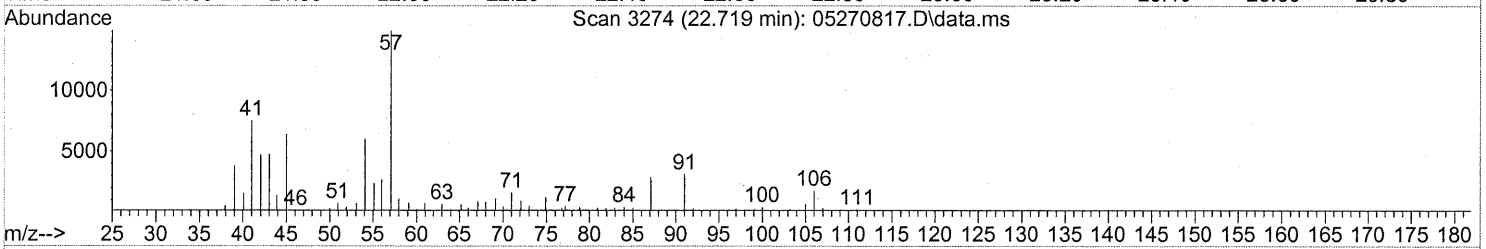
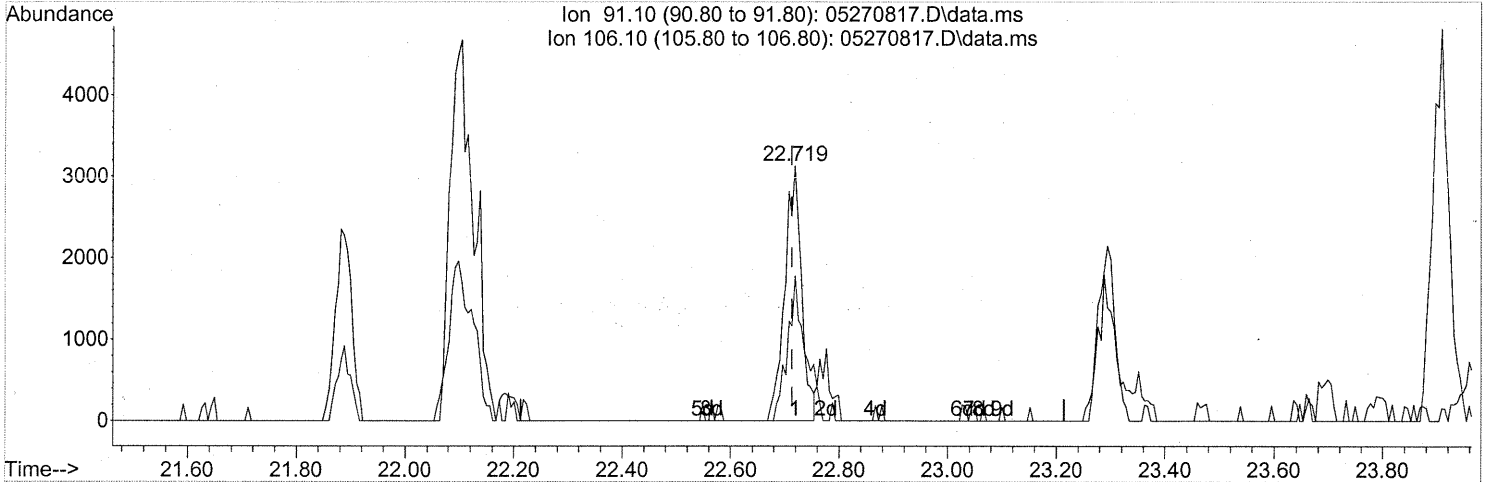
response 14079

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	41.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)

22.719min (+0.006) 0.06ng

response 6658

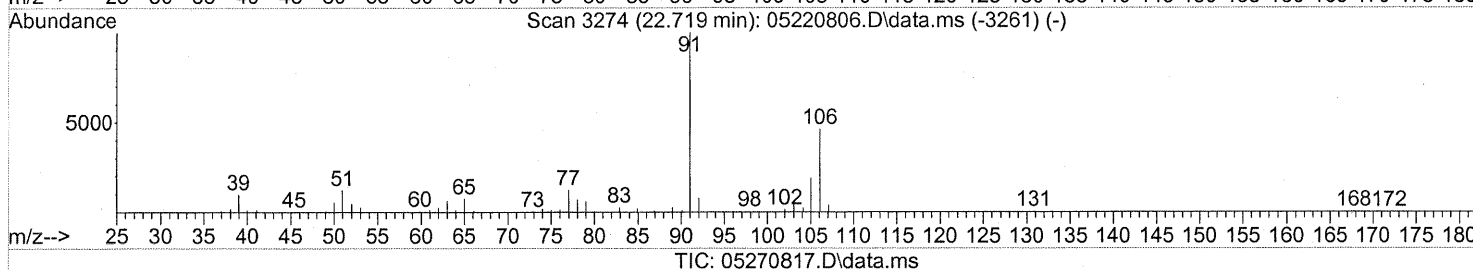
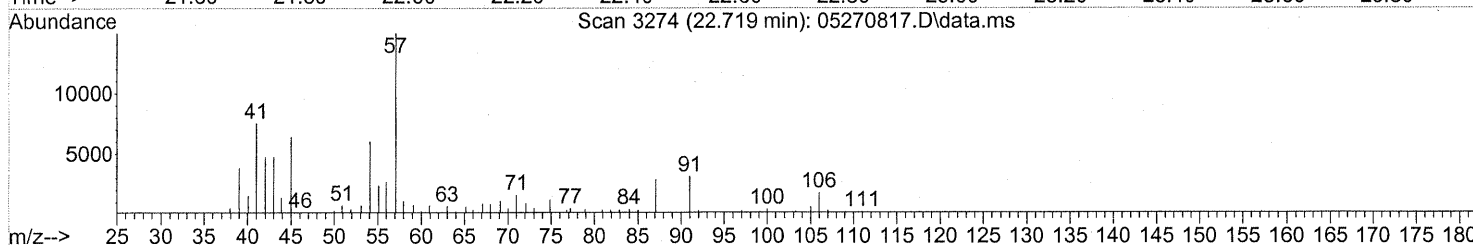
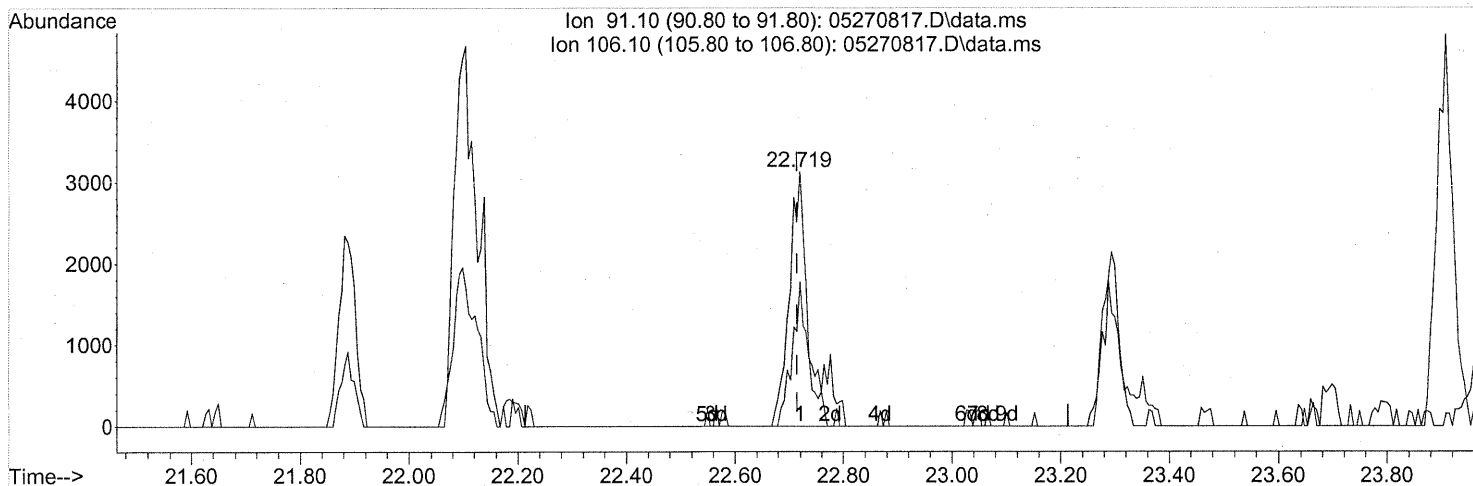
split peaks

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	60.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 11:05:14 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)
 22.719min (+0.006) 0.08ng m
 response 7958

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	50.80
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

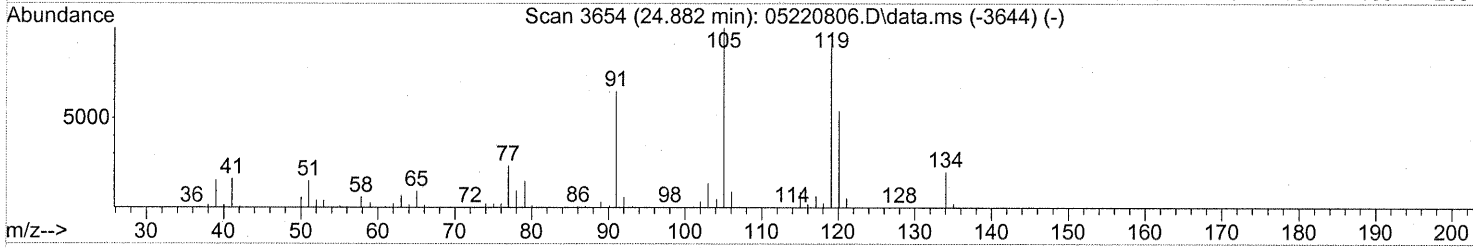
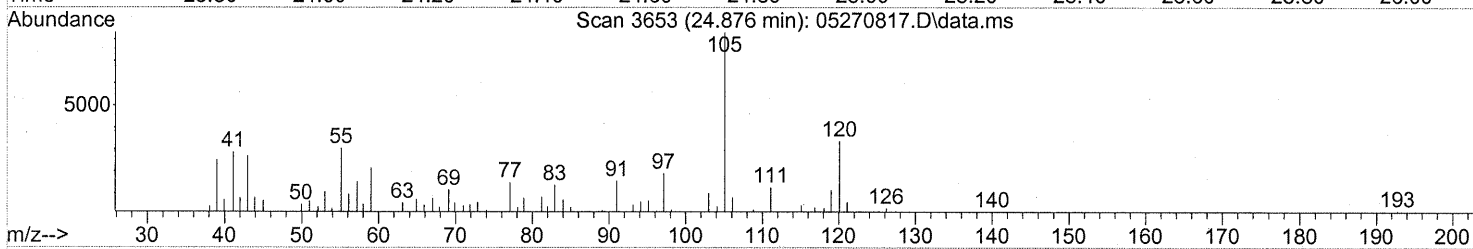
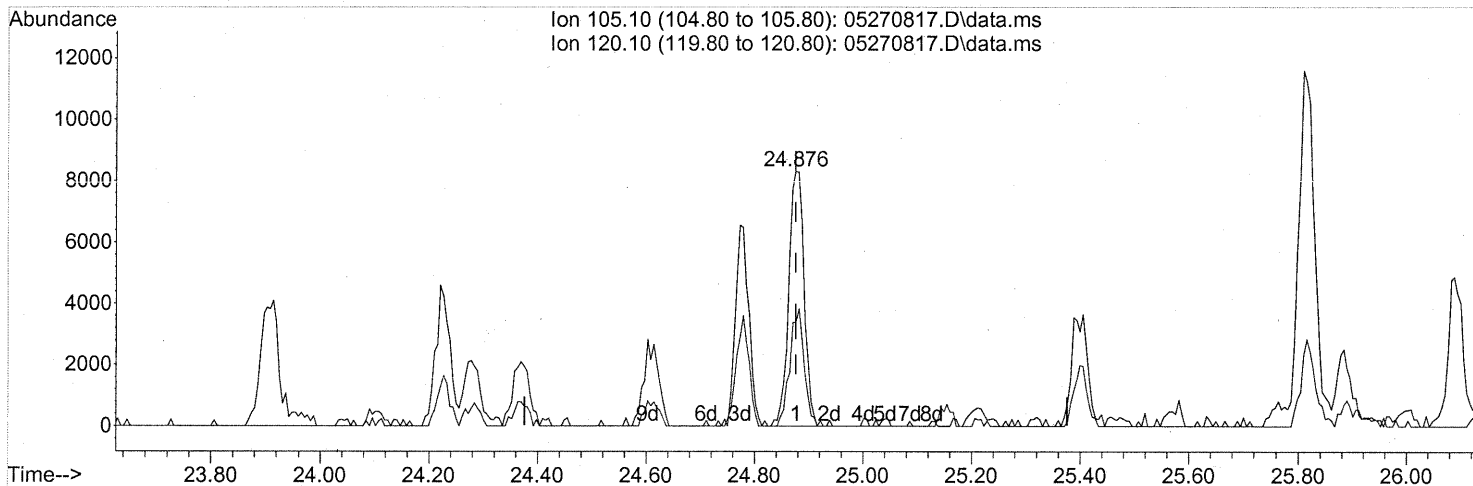
10/5/08

5/26/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.876min (-0.000) 0.13ng

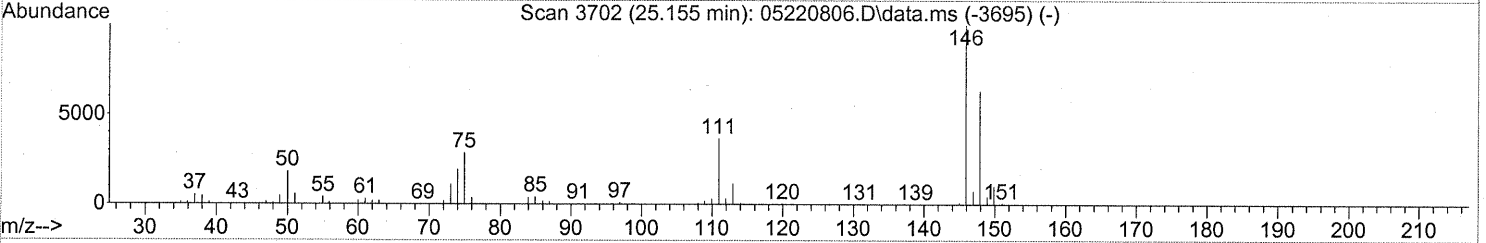
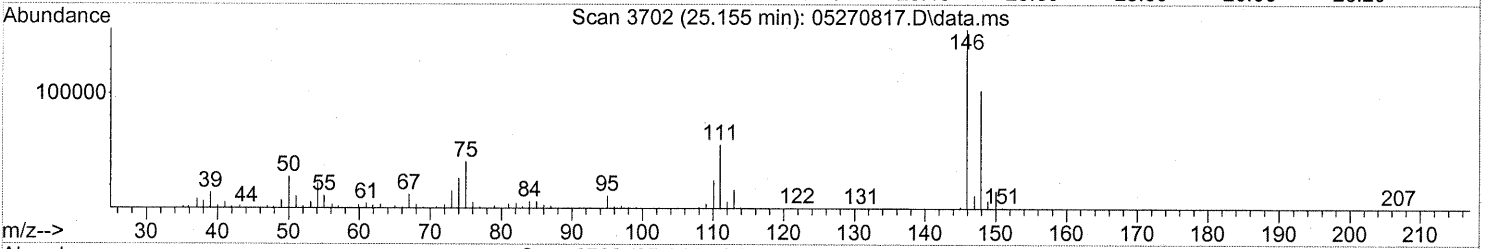
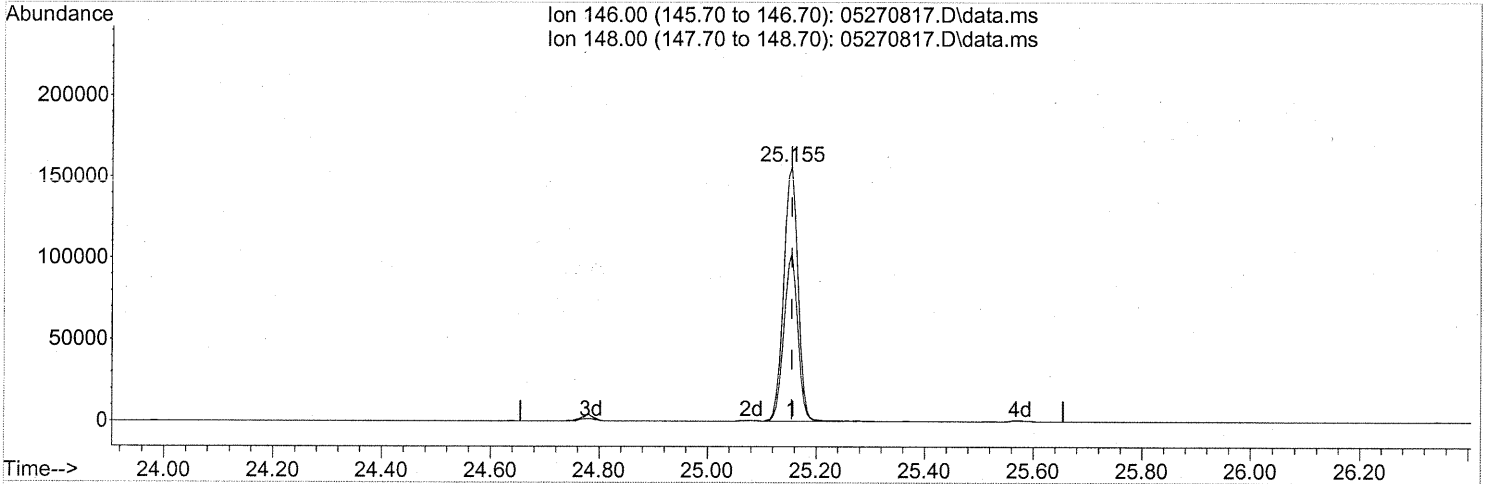
response 16419

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	42.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 3.76ng

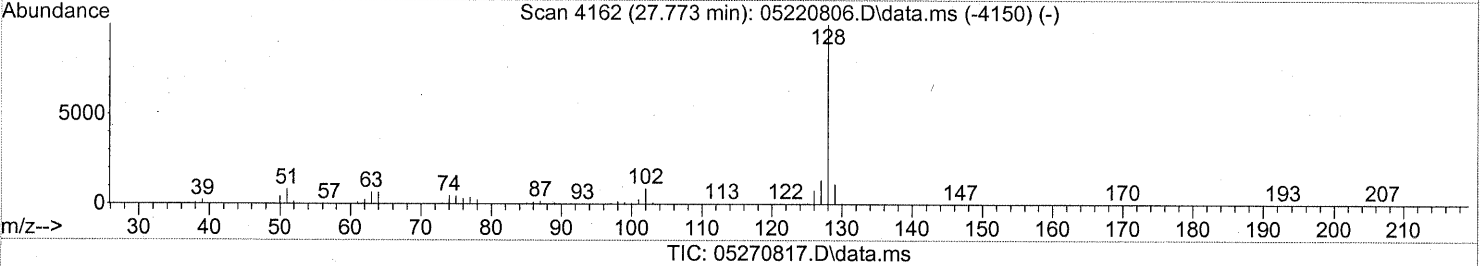
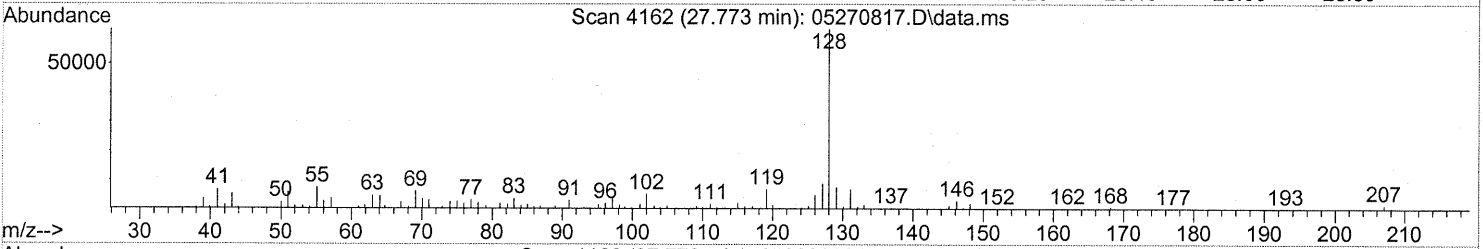
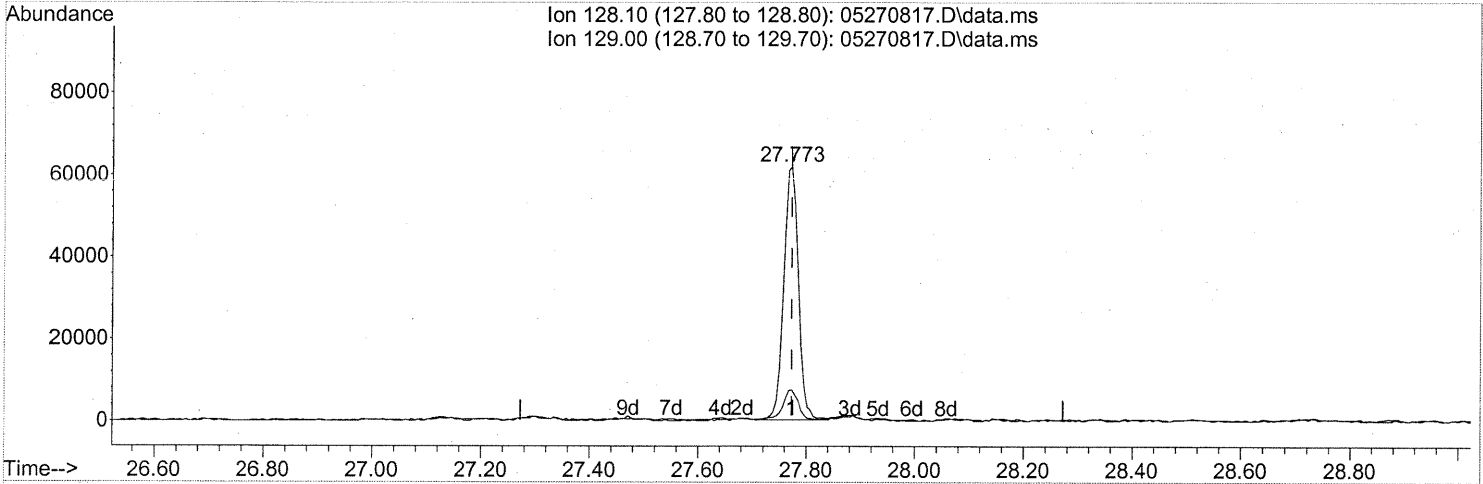
response 286683

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(95) Naphthalene (T)

27.773min (-0.000) 0.70ng

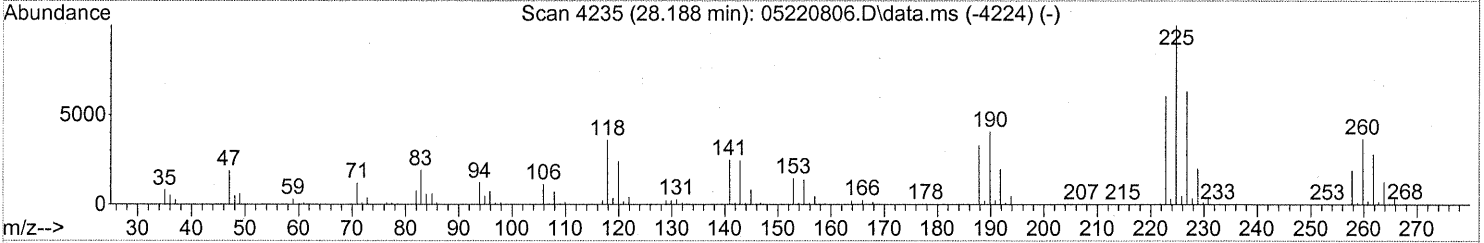
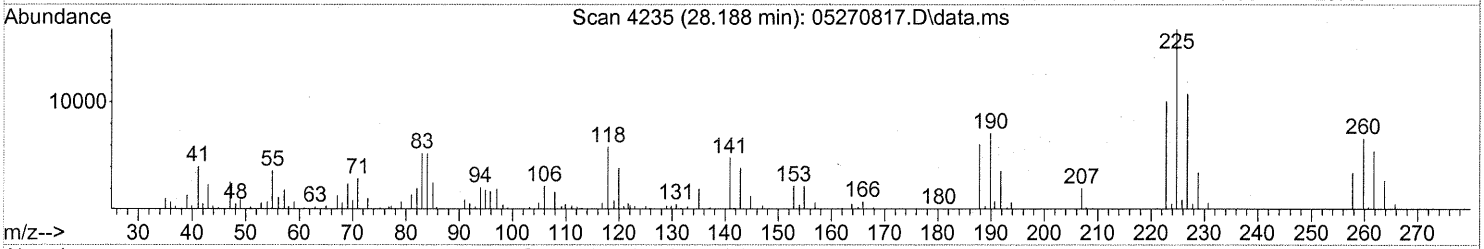
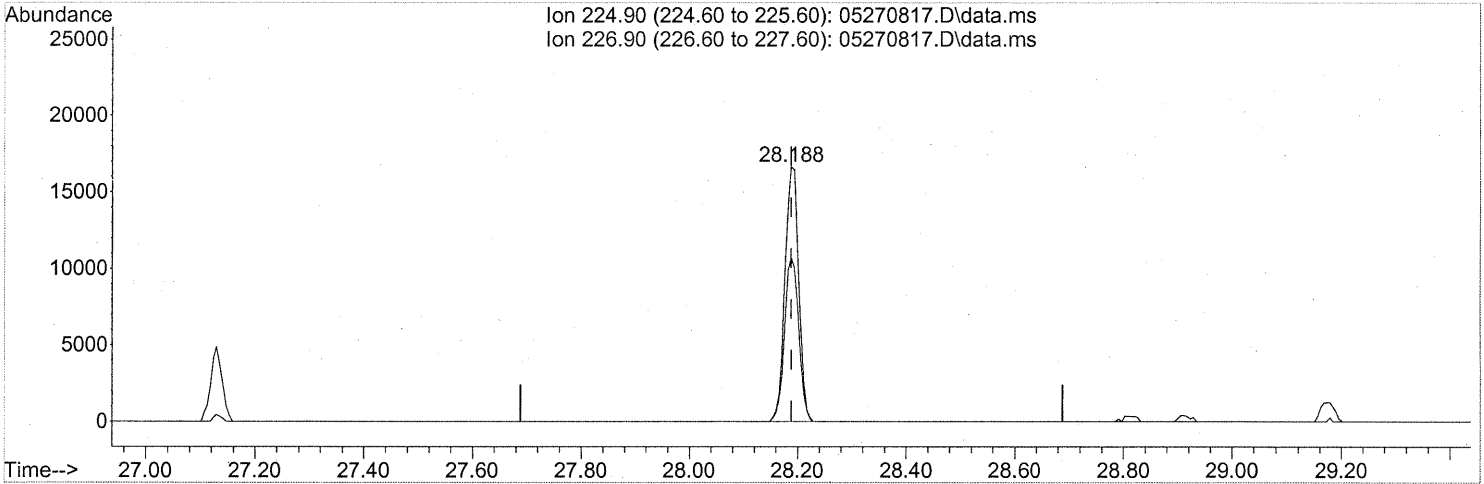
response 116078

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:13:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

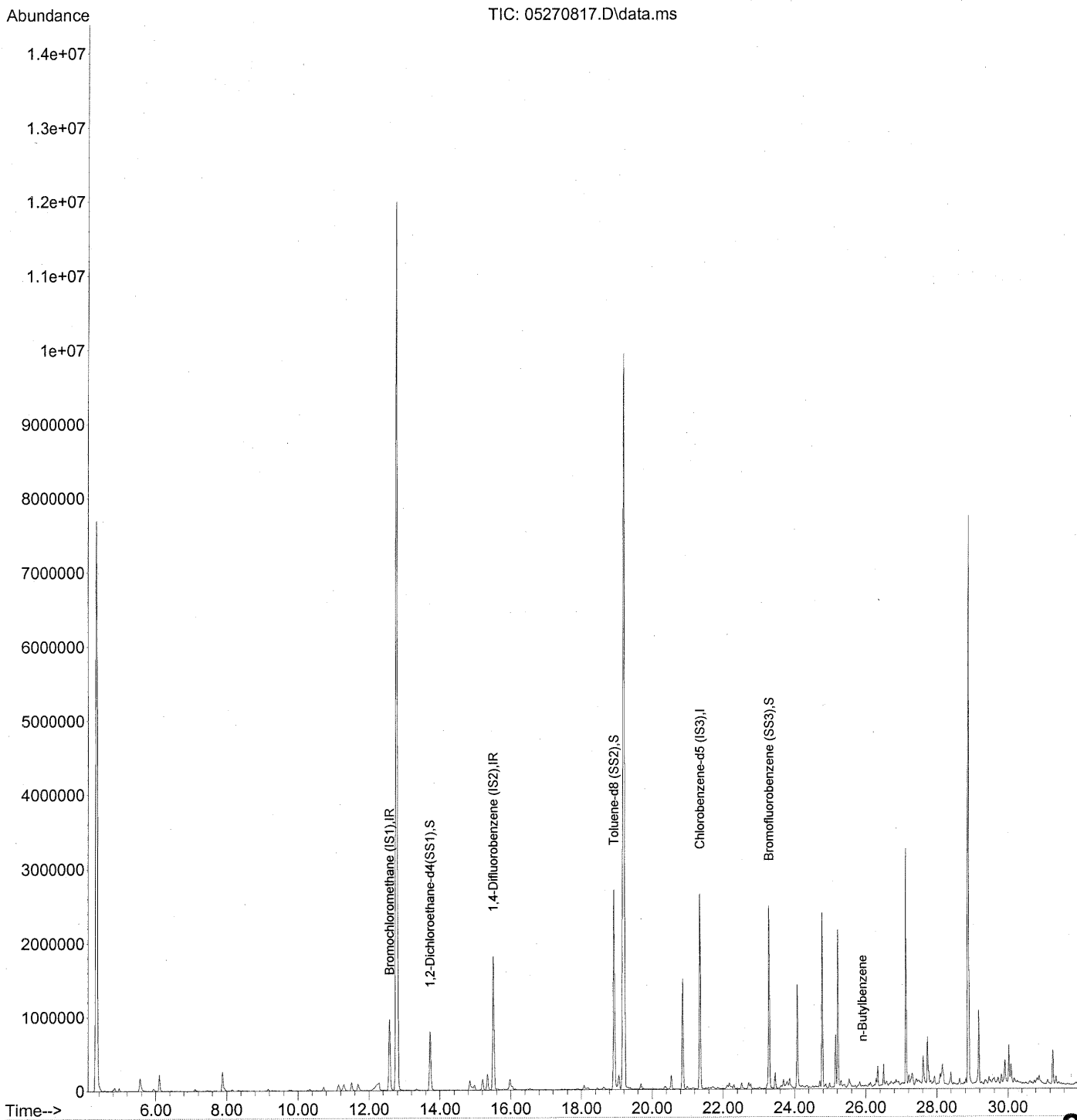
28.188min (-0.000) 0.80ng

response 29258

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	65.95
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 8:58 pm
Operator : WA
Sample : P0801483-018 (500ml)
Misc : ENSR SG27B-05 (-3.7, 3.6)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 13:12:55 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 8:58 pm
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 13:12:55 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

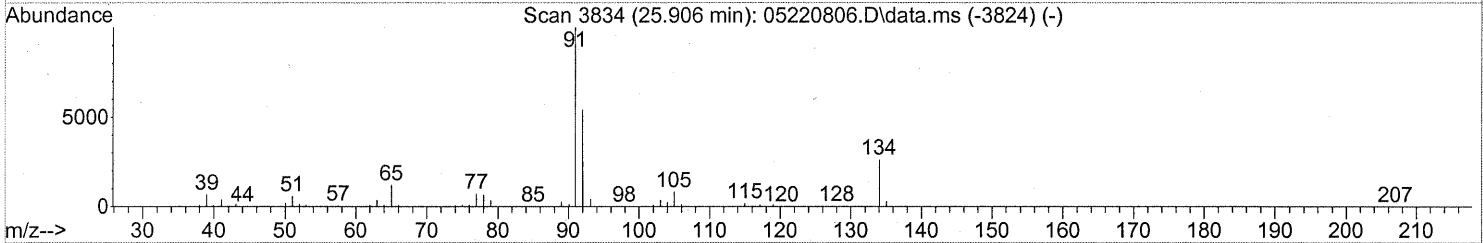
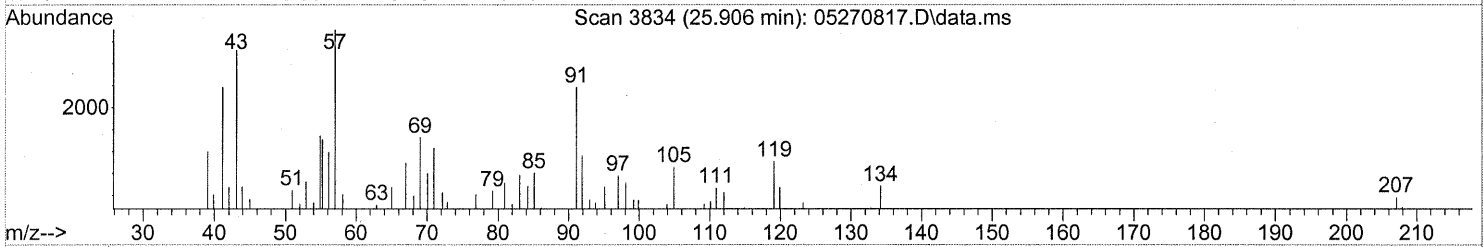
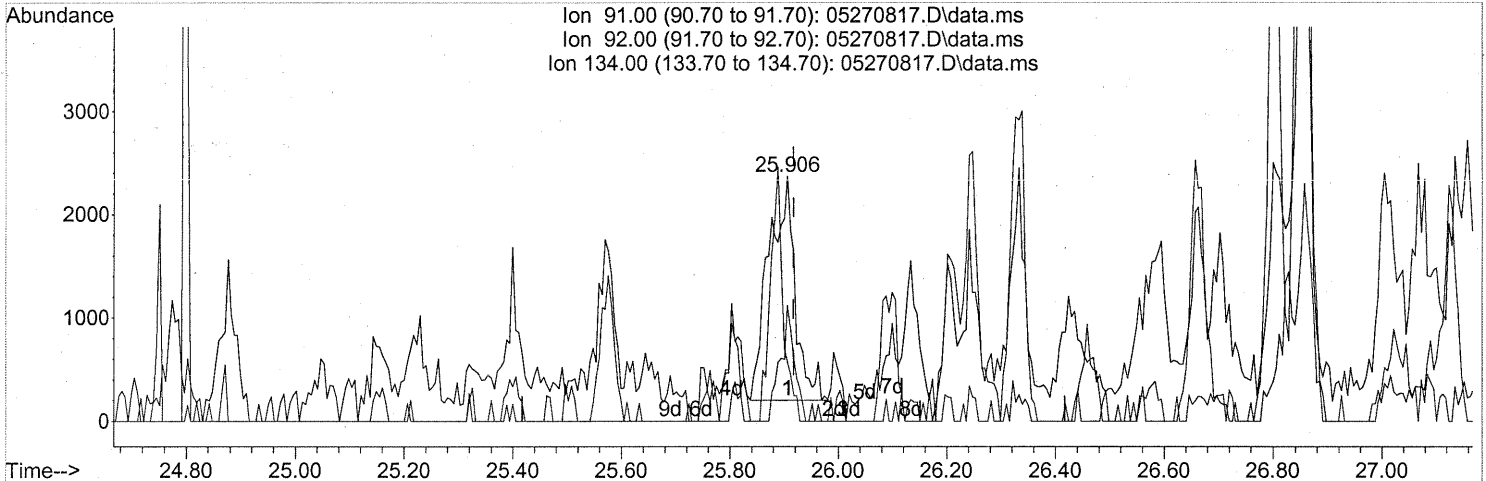
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	514732	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2168190	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1024484	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	810126	22.714	ng	-0.02
Spiked Amount	25.000			Recovery	=	90.84%
5) Toluene-d8 (SS2)	18.93	98	2276382	24.741	ng	-0.01
Spiked Amount	25.000			Recovery	=	98.96%
6) Bromofluorobenzene (SS3)	23.29	174	934190	24.968	ng	0.00
Spiked Amount	25.000			Recovery	=	99.88%
Target Compounds						
7) tert-Butylbenzene	24.57	119	236	N.D.		Qvalue
8) n-Butylbenzene	25.91	91	7275	0.055 ng	M#	58

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270817.D
 Acq On : 27 May 2008 20:58
 Operator : WA
 Sample : P0801483-018 (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 13:12:55 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



TIC: 05270817.D\data.ms

(8) n-Butylbenzene

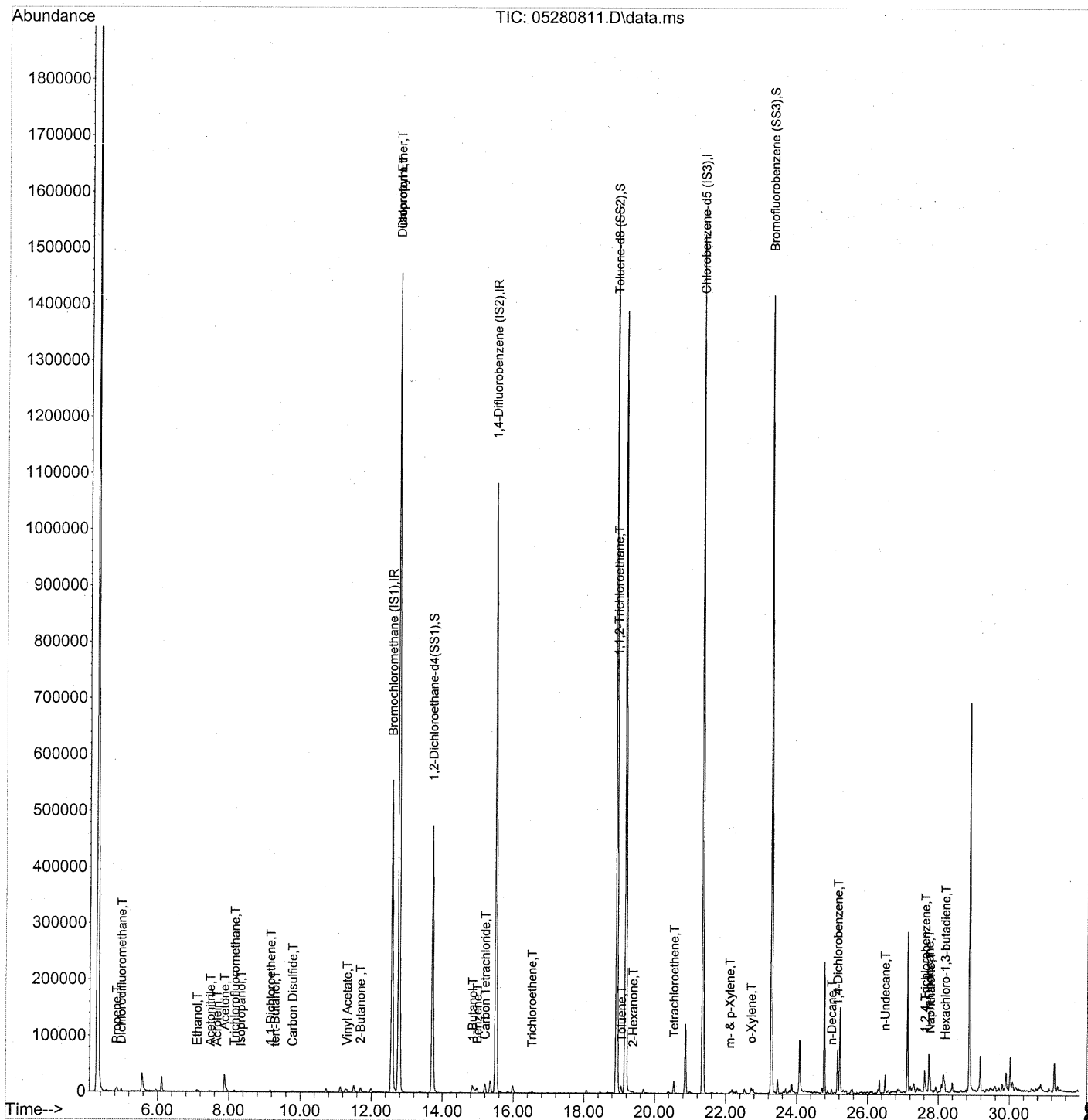
25.906min (-0.011) 0.05ng

response 7275

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	27.53#
134.00	28.80	54.94#
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 17:59
Operator : WA
Sample : P0801483-018 Dil (100ml)
Misc : ENSR SG27B-05 (-3.7, 3.6)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 04:15:35 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



804

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280811.D
 Acq On : 28 May 2008 17:59
 Operator : WA
 Sample : P0801483-018 Dil (100ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 04:15:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	297312	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1262605	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	593640	25.000	ng	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.72	65	488133	23.695	ng	0.00
Spiked Amount	25.000		Recovery	=	94.80%	
57) Toluene-d8 (SS2)	18.92	98	1333202	25.006	ng	0.00
Spiked Amount	25.000		Recovery	=	100.04%	
73) Bromofluorobenzene (SS3)	23.29	174	543017	25.047	ng	0.00
Spiked Amount	25.000		Recovery	=	100.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	2071	0.088	ng	# 26
3) Dichlorodifluoromethane	4.98	85	4932	0.114	ng	93
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.03	54	229	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.11	45	4959	0.317	ng	94
11) Acetonitrile	7.48	41	2900	0.064	ng	# 60
12) Acrolein	7.67	56	1392	0.125	ng	98
13) Acetone	7.88	58	20769	1.298	ng	95
14) Trichlorofluoromethane	8.16	101	2488	0.067	ng	94
15) Isopropanol	8.33	45	2711	0.053	ng	79
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.17	96	1949	0.119	ng	# 49
18) tert-Butanol	9.29	59	2642	0.061	ng	# 64
19) Methylene Chloride	9.35	84	739	N.D.		
20) Allyl Chloride	9.39	41	64	N.D.		
21) Trichlorotrifluoroethane	9.80	151	323	N.D.		
22) Carbon Disulfide	9.78	76	4956	0.073	ng	83
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.08	63	410	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.31	86	849	0.287	ng	# 45
27) 2-Butanone	11.70	72	3124	0.267	ng	# 87
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.77	87	161089	11.254	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.68	57	60	N.D.		

DA 6/2/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280811.D
 Acq On : 28 May 2008 17:59
 Operator : WA
 Sample : P0801483-018 Dil (100ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 04:15:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	1542130	56.882 ng		99
34) Tetrahydrofuran	13.40	72	153	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.73	62	79	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.85	56	14735	0.849 ng		92
41) Benzene	14.99	78	9628	0.146 ng		97
42) Carbon Tetrachloride	15.21	117	13644	0.536 ng		99
43) Cyclohexane	15.35	84	643	N.D.		
44) tert-Amyl Methyl Ether	15.86	73	722	N.D.		
45) 1,2-Dichloropropane	16.21	63	70	N.D.		
46) Bromodichloromethane	16.47	83	701	N.D.		
47) Trichloroethene	16.53	130	1035	0.051 ng		93
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	192	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	160	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.95	97	117800	7.211 ng	#	7
58) Toluene	19.06	91	12214	0.169 ng		94
59) 2-Hexanone	19.39	43	2707	0.054 ng	#	69
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.20	43	778	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.55	166	8223	0.383 ng		100
65) Chlorobenzene	21.41	112	276	N.D.		
66) Ethylbenzene	21.89	91	1368	N.D.		
67) m- & p-Xylene	22.12	91	2824	0.051 ng		79
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.57	104	716	N.D.		
70) o-Xylene	22.72	91	3528	0.059 ng	#	43
71) n-Nonane	22.98	43	1012	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.30	83	111	N.D.		
74) Cumene	23.46	105	767	N.D.		
75) alpha-Pinene	23.96	93	197	N.D.		
76) n-Propylbenzene	24.10	91	1887	N.D.		
77) 3-Ethyltoluene	24.23	105	1913	N.D.		
78) 4-Ethyltoluene	24.28	105	1185	N.D.		
79) 1,3,5-Trimethylbenzene	24.36	105	839	N.D.		

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Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280811.D
 Acq On : 28 May 2008 17:59
 Operator : WA
 Sample : P0801483-018 Dil (100ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 04:15:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

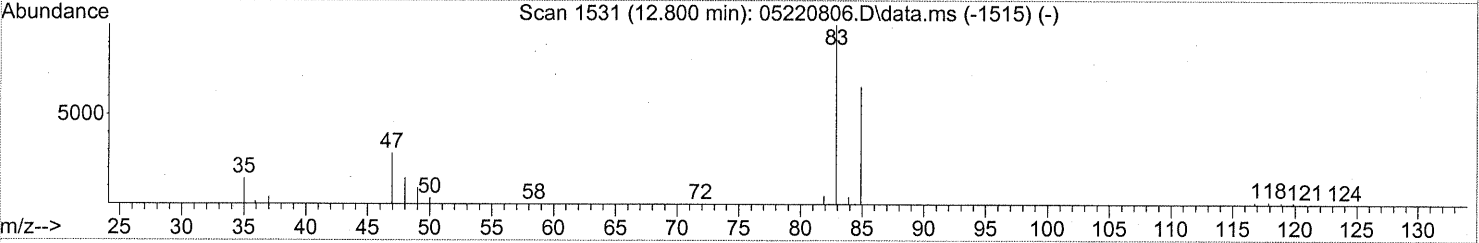
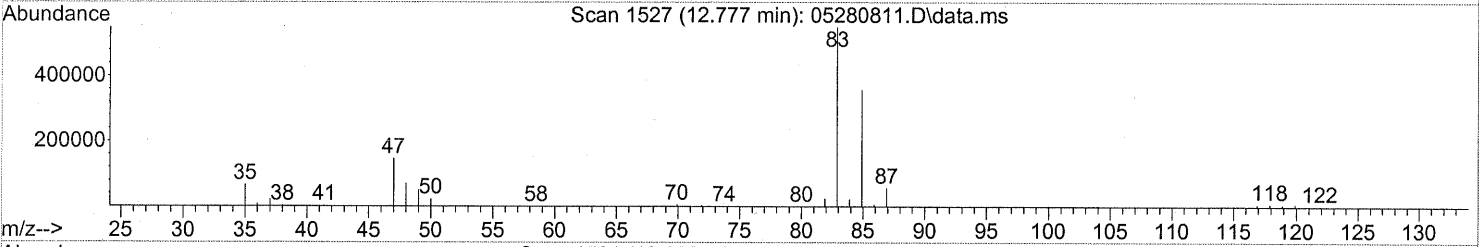
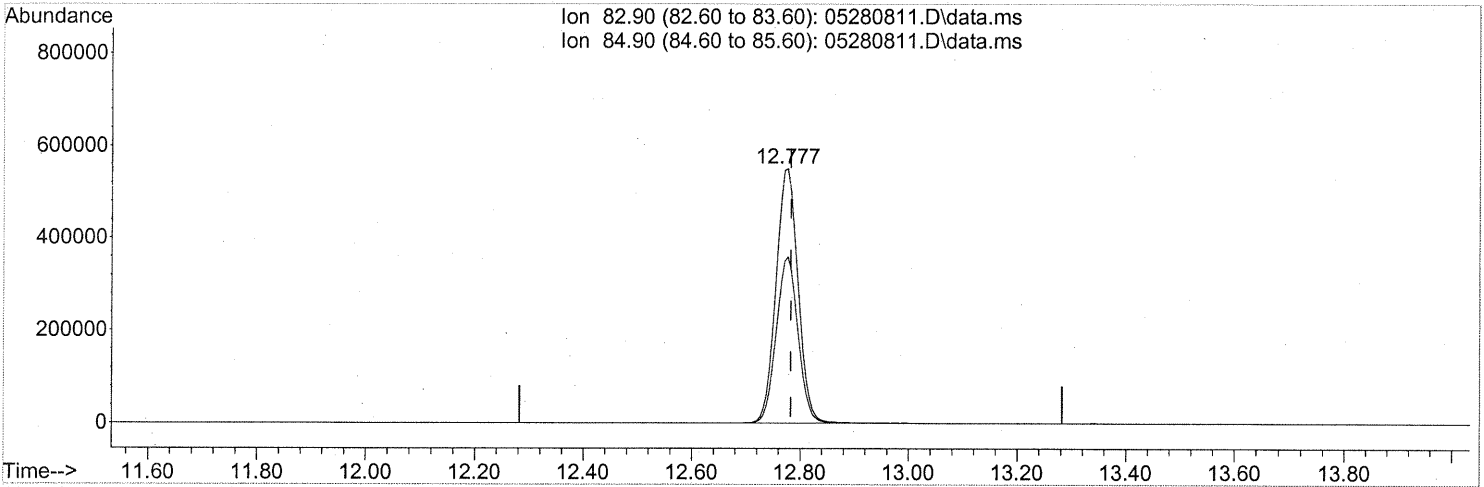
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	343	N.D.		
81) 2-Ethyltoluene	24.60	105	1641	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	2925	N.D.		
83) n-Decane	24.98	57	3035	0.076	ng	85
84) Benzyl Chloride	25.05	91	2253	N.D.		
85) 1,3-Dichlorobenzene	25.07	146	902	N.D.		
86) 1,4-Dichlorobenzene	25.16	146	32171	0.728	ng	99
87) sec-Butylbenzene	25.21	105	836	N.D.		
88) p-Isopropyltoluene	25.39	119	709	N.D.		
89) 1,2,3-Trimethylbenzene	25.41	105	1287	N.D.		
90) 1,2-Dichlorobenzene	25.58	146	845	N.D.		
91) d-Limonene	25.57	68	1180	N.D.		
92) 1,2-Dibromo-3-Chloropr...	26.10	157	128	N.D.		
93) n-Undecane	26.50	57	11458	0.273	ng	71
94) 1,2,4-Trichlorobenzene	27.63	180	1603	0.051	ng	88
95) Naphthalene	27.77	128	19315	0.201	ng	100
96) n-Dodecane	27.73	57	21682	0.519	ng	78
97) Hexachloro-1,3-butadiene	28.19	225	3333	0.158	ng	98

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280811.D
 Acq On : 28 May 2008 17:59
 Operator : WA
 Sample : P0801483-018 Dil (100ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 04:15:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280811.D\data.ms

(32) Chloroform (T)
 12.777min (-0.006) 56.88ng
 response 1542130

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.31
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG32B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-019

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00335

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 0.0025 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	330	33	ND	66	6.6	
74-87-3	Chloromethane	ND	65	33	ND	32	16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	330	33	ND	47	4.7	
75-01-4	Vinyl Chloride	ND	65	33	ND	26	13	
74-83-9	Bromomethane	ND	65	33	ND	17	8.4	
75-00-3	Chloroethane	ND	65	33	ND	25	12	
64-17-5	Ethanol	ND	3,300	33	ND	1,700	17	
67-64-1	Acetone	160	3,300	48	66	1,400	20	J, B
75-69-4	Trichlorofluoromethane	610	65	33	110	12	5.8	
107-13-1	Acrylonitrile	ND	330	46	ND	150	21	
75-35-4	1,1-Dichloroethene	ND	65	33	ND	16	8.2	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	330	48	ND	110	16	
75-09-2	Methylene Chloride	ND	330	33	ND	94	9.4	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	65	33	ND	21	10	
76-13-1	Trichlorotrifluoroethane	ND	65	37	ND	8.5	4.8	
75-15-0	Carbon Disulfide	ND	330	78	ND	100	25	
156-60-5	trans-1,2-Dichloroethene	ND	65	33	ND	16	8.2	
75-34-3	1,1-Dichloroethane	ND	65	33	ND	16	8.1	
1634-04-4	Methyl tert-Butyl Ether	ND	65	33	ND	18	9.0	
108-05-4	Vinyl Acetate	ND	3,300	100	ND	930	30	
78-93-3	2-Butanone (MEK)	ND	330	33	ND	110	11	
156-59-2	cis-1,2-Dichloroethene	ND	65	33	ND	16	8.2	
108-20-3	Diisopropyl Ether	ND	330	38	ND	78	9.2	
67-66-3	Chloroform	160,000	65	38	32,000	13	7.9	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: LA

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG32B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-019

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00335

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 0.0025 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	330	33	ND	78	8.0	
107-06-2	1,2-Dichloroethane	ND	65	33	ND	16	8.1	
71-55-6	1,1,1-Trichloroethane	ND	65	33	ND	12	6.0	
71-43-2	Benzene	ND	65	33	ND	20	10	
56-23-5	Carbon Tetrachloride	190	65	33	30	10	5.2	
994-05-8	tert-Amyl Methyl Ether	ND	330	33	ND	78	7.8	
78-87-5	1,2-Dichloropropane	ND	65	33	ND	14	7.1	
75-27-4	Bromodichloromethane	ND	65	33	ND	9.7	4.9	
79-01-6	Trichloroethene	ND	65	33	ND	12	6.1	
123-91-1	1,4-Dioxane	ND	330	40	ND	91	11	
80-62-6	Methyl Methacrylate	ND	330	49	ND	80	12	
142-82-5	n-Heptane	ND	330	42	ND	80	10	
10061-01-5	cis-1,3-Dichloropropene	ND	330	34	ND	72	7.5	
108-10-1	4-Methyl-2-pentanone	ND	330	37	ND	80	8.9	
10061-02-6	trans-1,3-Dichloropropene	ND	330	41	ND	72	9.1	
79-00-5	1,1,2-Trichloroethane	ND	65	33	ND	12	6.0	
108-88-3	Toluene	ND	330	33	ND	87	8.7	
591-78-6	2-Hexanone	ND	330	50	ND	80	12	
124-48-1	Dibromochloromethane	ND	65	44	ND	7.7	5.2	
106-93-4	1,2-Dibromoethane	ND	65	35	ND	8.5	4.6	
111-65-9	n-Octane	ND	330	33	ND	70	7.0	
127-18-4	Tetrachloroethene	360	65	33	53	9.6	4.8	
108-90-7	Chlorobenzene	ND	65	33	ND	14	7.2	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG32B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-019

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00335

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 0.0025 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	330	40	ND	75	9.3	
179601-23-1	m,p-Xylenes	ND	330	85	ND	75	20	
75-25-2	Bromoform	ND	330	50	ND	32	4.8	
100-42-5	Styrene	ND	330	50	ND	77	12	
95-47-6	o-Xylene	ND	330	41	ND	75	9.5	
79-34-5	1,1,2,2-Tetrachloroethane	ND	65	42	ND	9.5	6.1	
98-82-8	Cumene	ND	330	37	ND	66	7.4	
103-65-1	n-Propylbenzene	ND	330	34	ND	66	6.9	
622-96-8	4-Ethyltoluene	ND	330	37	ND	66	7.6	
108-67-8	1,3,5-Trimethylbenzene	ND	330	39	ND	66	8.0	
98-83-9	alpha-Methylstyrene	ND	330	48	ND	67	9.9	
95-63-6	1,2,4-Trimethylbenzene	ND	330	45	ND	66	9.2	
100-44-7	Benzyl Chloride	ND	65	56	ND	13	11	
541-73-1	1,3-Dichlorobenzene	ND	65	40	ND	11	6.7	
106-46-7	1,4-Dichlorobenzene	ND	65	37	ND	11	6.1	
135-98-8	sec-Butylbenzene	ND	330	38	ND	59	6.9	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	330	42	ND	59	7.7	
95-50-1	1,2-Dichlorobenzene	ND	65	43	ND	11	7.2	
96-12-8	1,2-Dibromo-3-chloropropane	ND	330	50	ND	34	5.1	
120-82-1	1,2,4-Trichlorobenzene	ND	65	50	ND	8.8	6.7	
91-20-3	Naphthalene	ND	130	48	ND	25	9.2	
87-68-3	Hexachlorobutadiene	ND	65	59	ND	6.1	5.5	
98-06-6	tert-Butylbenzene	ND	130	33	ND	24	5.9	
104-51-8	n-Butylbenzene	ND	130	33	ND	24	5.9	

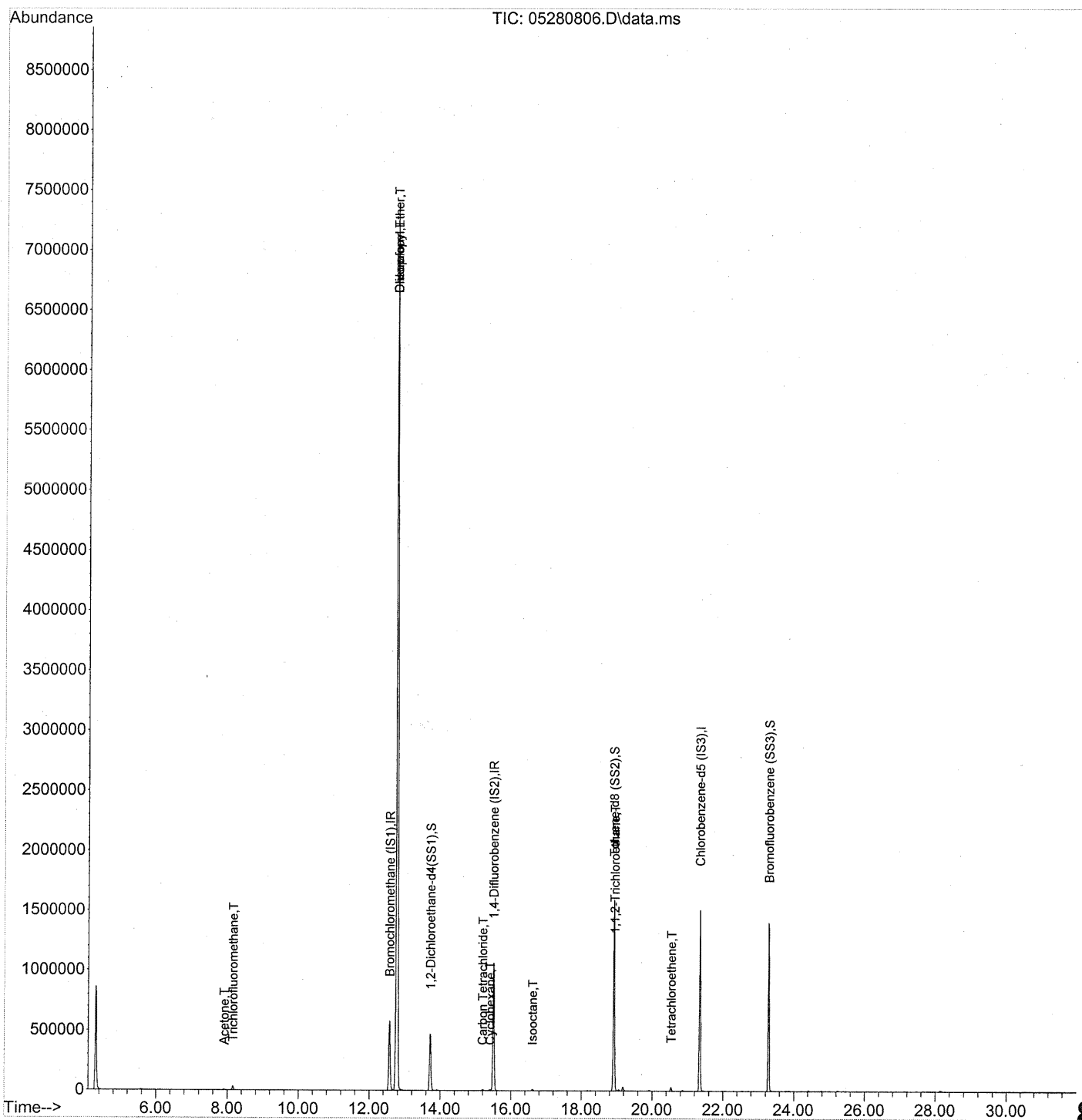
ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280806.D
 Acq On : 28 May 2008 13:07
 Operator : WA
 Sample : P0801483-019 (2.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:54:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280806.D
 Acq On : 28 May 2008 13:07
 Operator : WA
 Sample : P0801483-019 (2.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:54:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	297813	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1234128	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	589313	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.72	65	483154	23.414	ng	0.00	
Spiked Amount	25.000		Recovery	=	93.64%		✓
57) Toluene-d8 (SS2)	18.92	98	1323174	25.000	ng	0.00	
Spiked Amount	25.000		Recovery	=	100.00%		✓
73) Bromofluorobenzene (SS3)	23.29	174	534214	24.821	ng	0.00	✓
Spiked Amount	25.000		Recovery	=	99.28%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	556	N.D.		
3) Dichlorodifluoromethane	0.00	85	0	N.D.	✓	
4) Chloromethane	0.00	50	0	N.D.	✓	
5) Freon 114	0.00	135	0	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	0.00	54	0	N.D.	✓	
8) Bromomethane	0.00	94	0	N.D.	✓	
9) Chloroethane	0.00	64	0	N.D.	✓	
10) Ethanol	7.14	45	235	N.D.	✓	
11) Acetonitrile	7.48	41	352	N.D.	✓	
12) Acrolein	7.68	56	64	N.D.	✓	
13) Acetone	7.92	58	3849	0.240	ng	86
14) Trichlorofluoromethane	8.16	101	34710	0.933	ng	99
15) Isopropanol	0.00	45	0	N.D.	✓	
16) Acrylonitrile	0.00	53	0	N.D.	✓	
17) 1,1-Dichloroethene	0.00	96	0	N.D.	✓	
18) tert-Butanol	0.00	59	0	N.D.	✓	
19) Methylene Chloride	9.38	84	507	N.D.	✓	
20) Allyl Chloride	0.00	41	0	N.D.	✓	
21) Trichlorotrifluoroethane	0.00	151	0	N.D.	✓	
22) Carbon Disulfide	9.78	76	2302	N.D.	✓	
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
24) 1,1-Dichloroethane	11.10	63	258	N.D.	✓	
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	✓	
26) Vinyl Acetate	0.00	86	0	N.D.	✓	
27) 2-Butanone	0.00	72	0	N.D.	✓	
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	835060	58.242	ng NR#	1
30) Ethyl Acetate	0.00	61	0	N.D.	✓	
31) n-Hexane	0.00	57	0	N.D.	✓	

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Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280806.D
 Acq On : 28 May 2008 13:07
 Operator : WA
 Sample : P0801483-019 (2.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:54:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
32) Chloroform	12.78	83	7763944	285.892 ng <i>Sp dil</i>	99
34) Tetrahydrofuran	0.00	72	0	N.D.	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.✓	
36) 1,2-Dichloroethane	13.73	62	111	N.D.✓	
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.✓	
39) Isopropyl Acetate	0.00	61	0	N.D.	
40) 1-Butanol	14.91	56	58	N.D.	
41) Benzene	14.98	78	853	N.D.✓	
42) Carbon Tetrachloride	<u>15.20</u>	117	7312	<u>0.294 ng</u>	91
43) Cyclohexane	15.41	84	4153	0.165 ng #	86
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.✓	
45) 1,2-Dichloropropane	0.00	63	0	N.D.✓	
46) Bromodichloromethane	16.45	83	56	N.D.✓	
47) Trichloroethene	16.54	130	108	N.D.✓	
48) 1,4-Dioxane	0.00	88	0	N.D.✓	
49) Isooctane	16.62	57	11243	0.152 ng	81
50) Methyl Methacrylate	0.00	100	0	N.D.✓	
51) n-Heptane	0.00	71	0	N.D.✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.✓	
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.✓	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.✓	
55) 1,1,2-Trichloroethane	18.94	97	115799	7.252 ng <i>NR#</i>	8
58) Toluene	19.06	91	578	N.D.✓	
59) 2-Hexanone	19.38	43	507	N.D.✓	
60) Dibromochloromethane	0.00	129	0	N.D.✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.✓	
62) Butyl Acetate	19.92	43	1105	N.D.	
63) n-Octane	0.00	57	0	N.D.✓	
64) Tetrachloroethene	<u>20.54</u>	166	11638	<u>0.547 ng</u>	99
65) Chlorobenzene	0.00	112	0	N.D.✓	
66) Ethylbenzene	21.88	91	62	N.D.✓	
67) m- & p-Xylene	22.12	91	120	N.D.✓	
68) Bromoform	0.00	173	0	N.D.✓	
69) Styrene	22.60	104	53	N.D.✓	
70) o-Xylene	22.72	91	205	N.D.✓	
71) n-Nonane	23.07	43	279	N.D.	
72) 1,1,2,2-Tetrachloroethane	22.57	83	52	N.D.✓	
74) Cumene	23.46	105	57	N.D.✓	
75) alpha-Pinene	0.00	93	0	N.D.	
76) n-Propylbenzene	0.00	91	0	N.D.✓	
77) 3-Ethyltoluene	24.23	105	363	N.D.	
78) 4-Ethyltoluene	24.28	105	409	N.D.✓	
79) 1,3,5-Trimethylbenzene	24.38	105	67	N.D.✓	

DA 5/31/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280806.D
 Acq On : 28 May 2008 13:07
 Operator : WA
 Sample : P0801483-019 (2.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:54:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

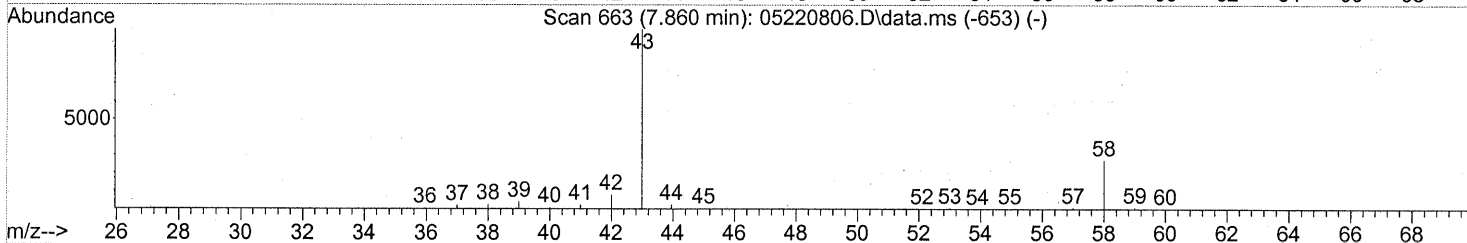
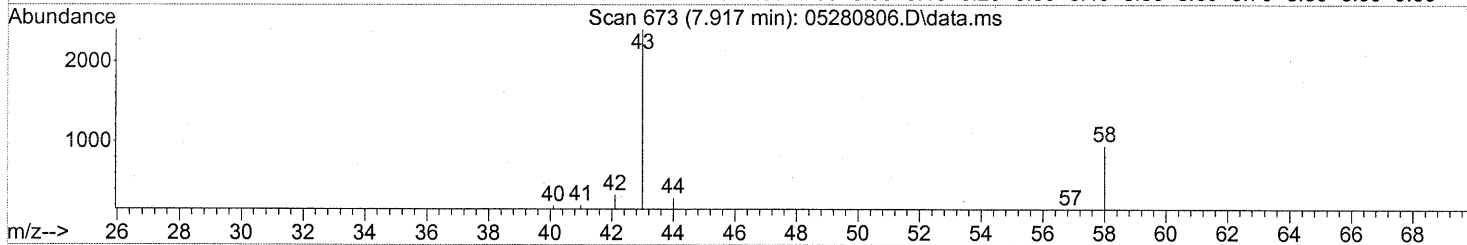
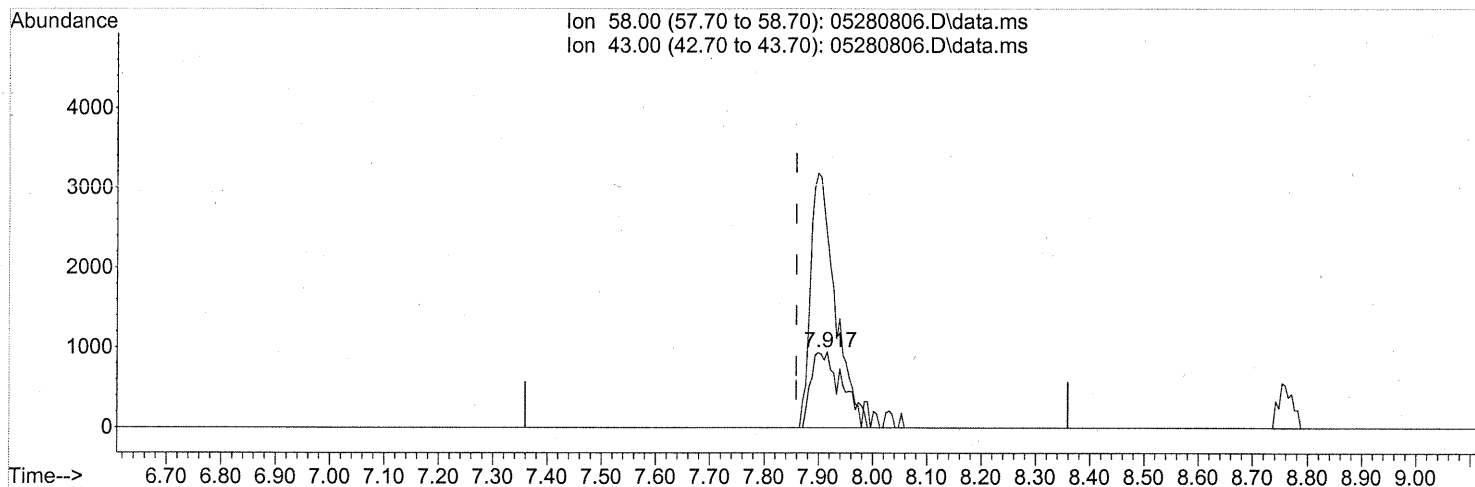
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.	✓	
81) 2-Ethyltoluene	24.38	105	67	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	726	N.D.	✓	
83) n-Decane	24.98	57	564	N.D.		
84) Benzyl Chloride	25.05	91	52	N.D.	✓	
85) 1,3-Dichlorobenzene	25.16	146	123	N.D.	✓	
86) 1,4-Dichlorobenzene	25.16	146	123	N.D.	✓	
87) sec-Butylbenzene	25.22	105	52	N.D.	✓	
88) p-Isopropyltoluene	25.40	119	198	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.42	105	54	N.D.		
90) 1,2-Dichlorobenzene	25.16	146	123	N.D.	✓	
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	✓	
93) n-Undecane	26.50	57	1108	N.D.		
94) 1,2,4-Trichlorobenzene	27.63	180	60	N.D.	✓	
95) Naphthalene	27.78	128	1602	N.D.	✓	
96) n-Dodecane	27.74	57	649	N.D.		
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	✓	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280806.D
 Acq On : 28 May 2008 13:07
 Operator : WA
 Sample : P0801483-019 (2.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:54:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280806.D\data.ms

(13) Acetone (T)

7.917min (+0.057) 0.24ng

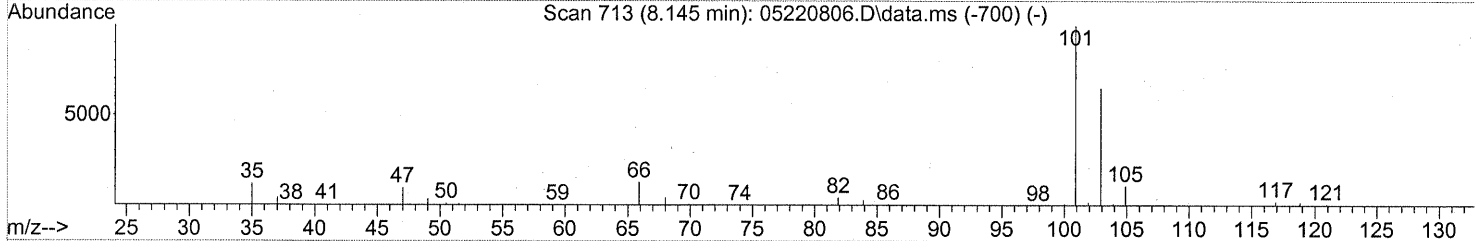
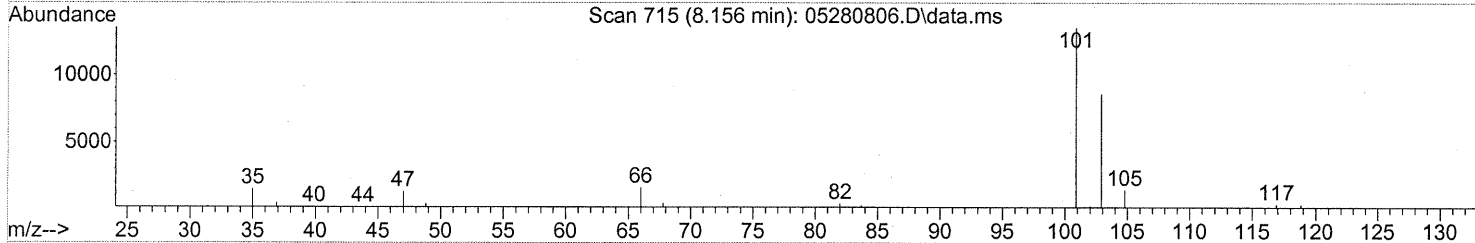
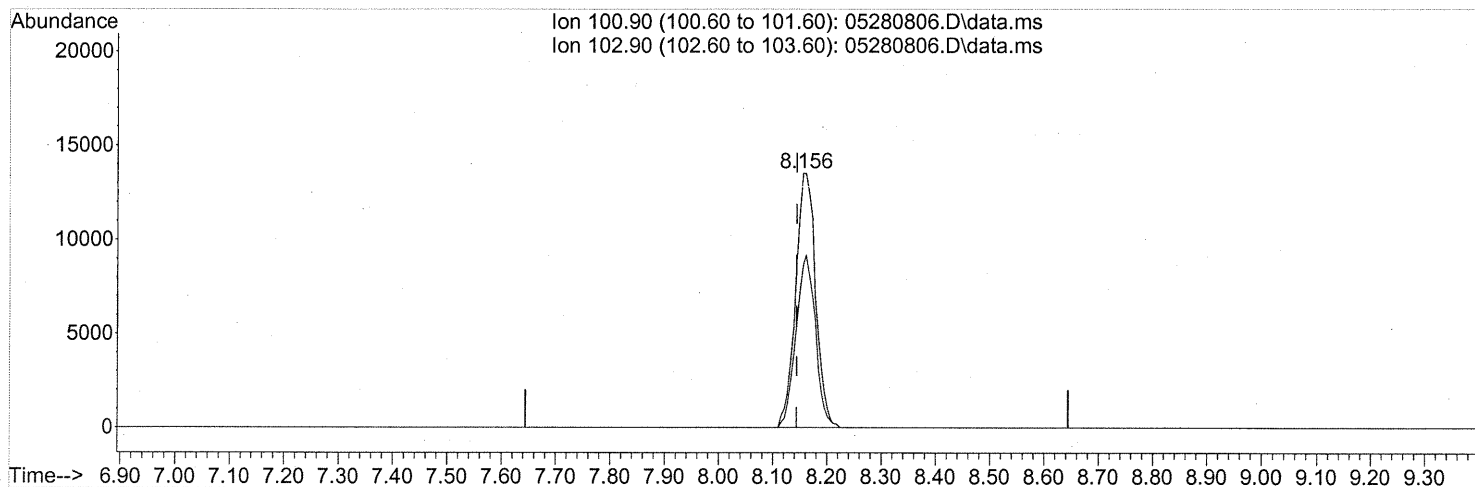
response 3849

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	256.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280806.D
 Acq On : 28 May 2008 13:07
 Operator : WA
 Sample : P0801483-019 (2.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:54:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280806.D\data.ms

(14) Trichlorofluoromethane (T)

8.156min (+0.011) 0.93ng

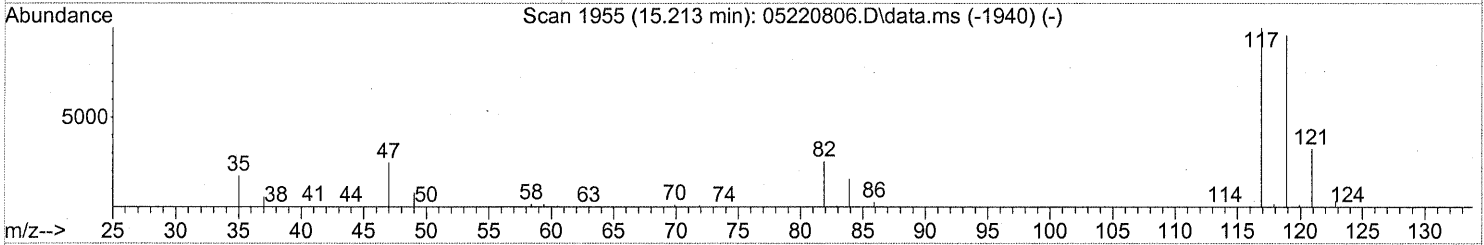
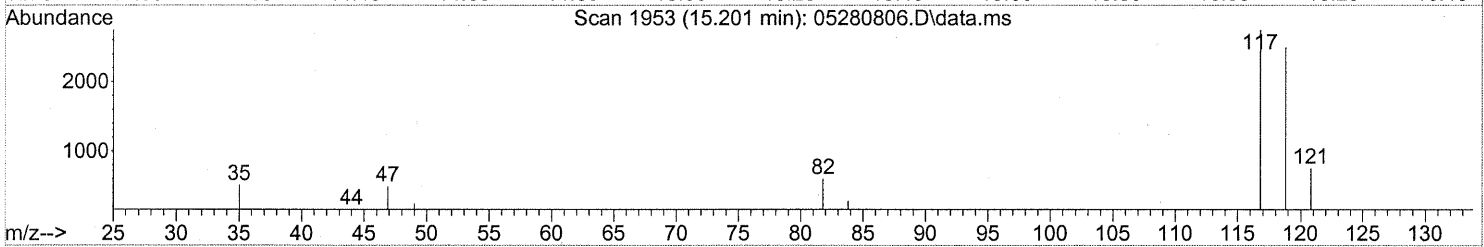
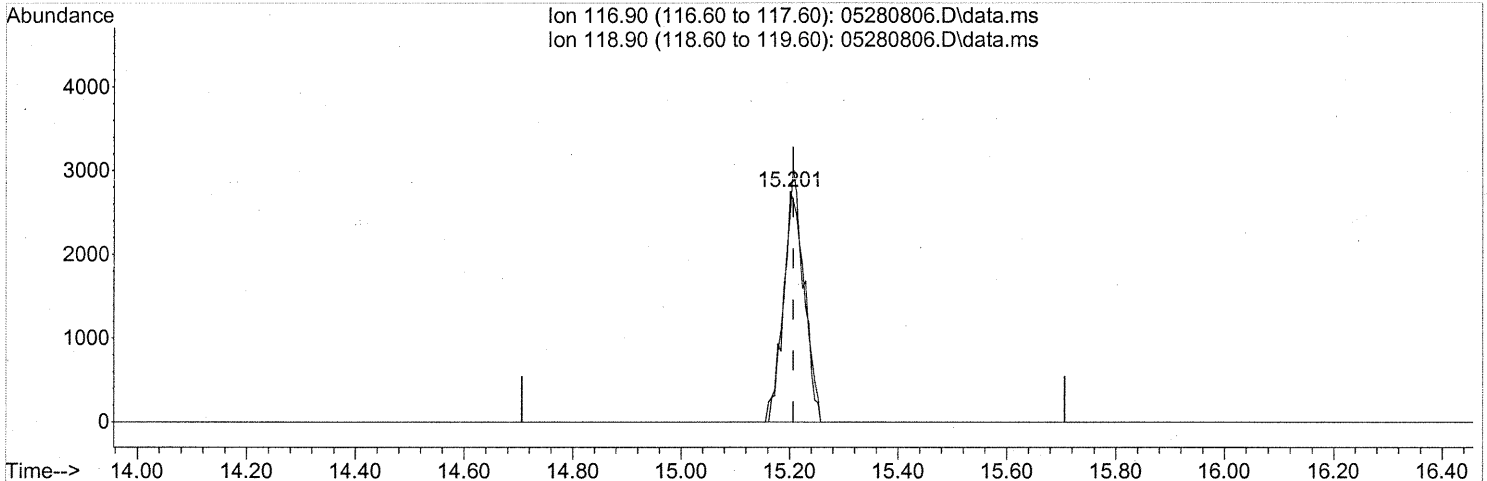
response 34710

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	65.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280806.D
 Acq On : 28 May 2008 13:07
 Operator : WA
 Sample : P0801483-019 (2.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:54:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280806.D\data.ms

(42) Carbon Tetrachloride (T)

15.201min (-0.006) 0.29ng

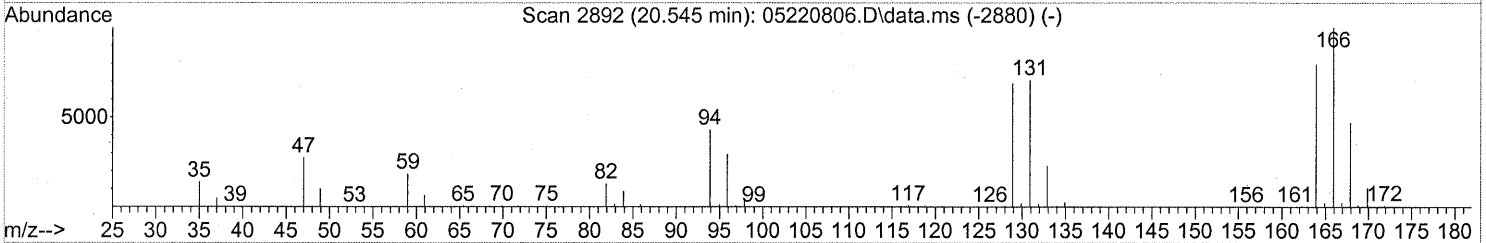
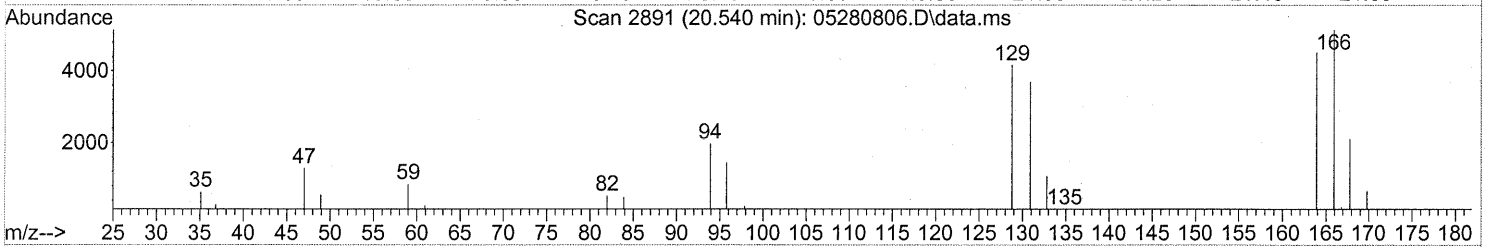
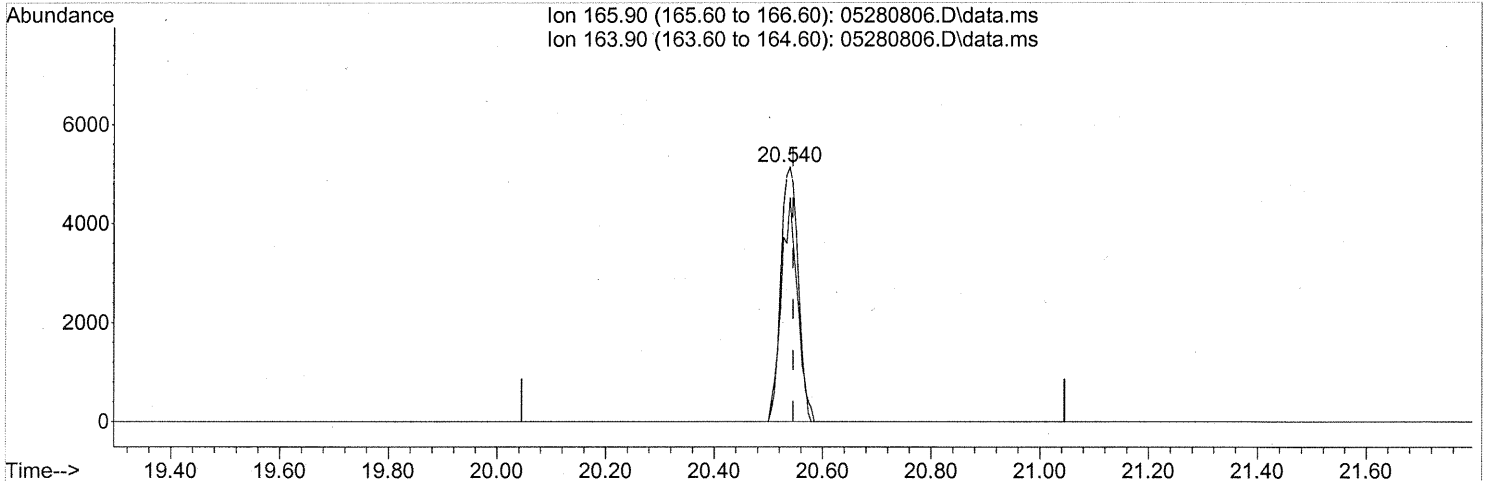
response 7312

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	105.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280806.D
 Acq On : 28 May 2008 13:07
 Operator : WA
 Sample : P0801483-019 (2.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:54:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280806.D\data.ms

(64) Tetrachloroethene (T)

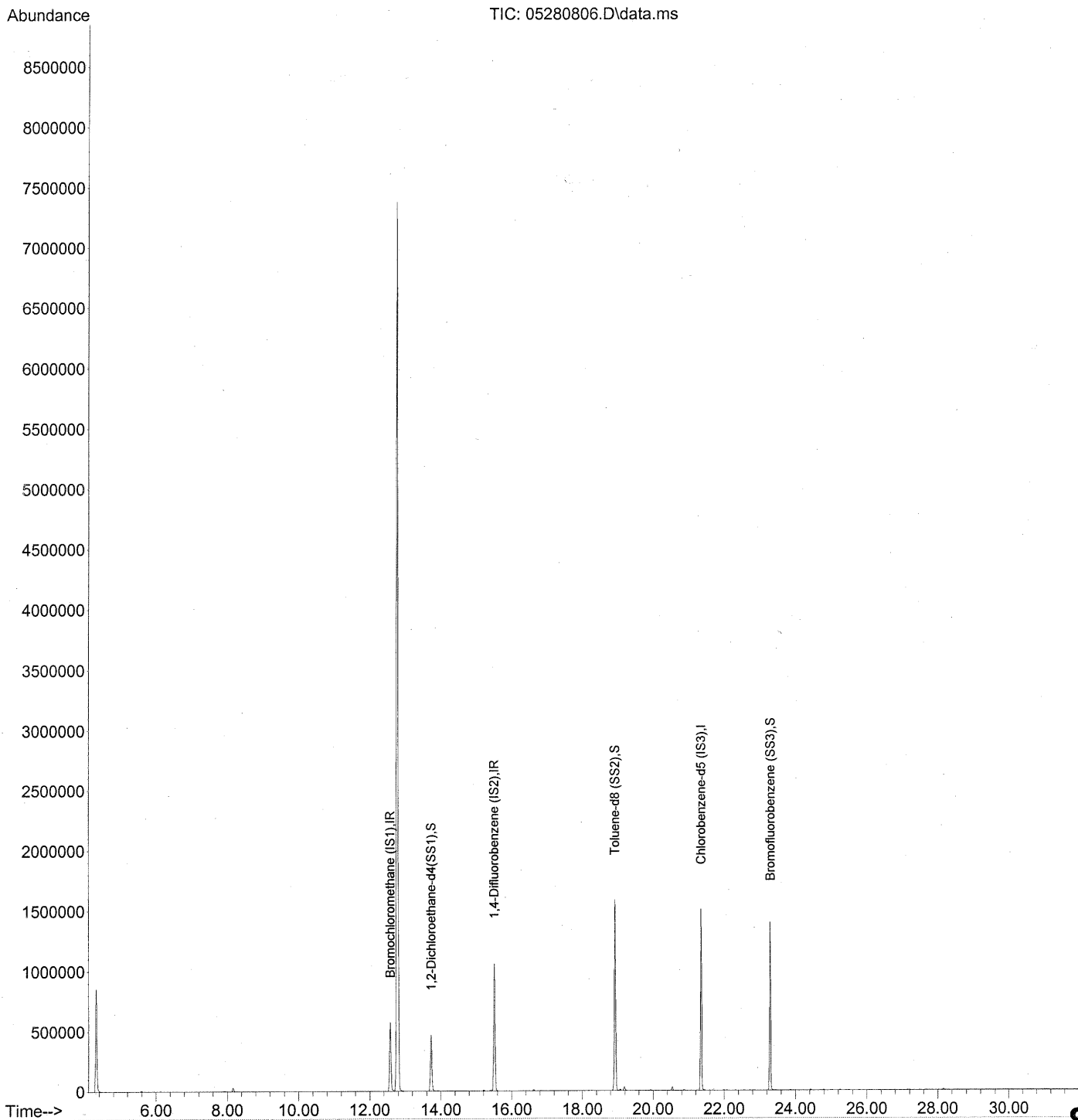
20.540min (-0.006) 0.55ng

response 11638

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.52
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280806.D
Acq On : 28 May 2008 1:07 pm
Operator : WA
Sample : P0801483-019 (2.5ml)
Misc : ENSR SG32B-05 (-3.5, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 13:24:13 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280806.D
 Acq On : 28 May 2008 1:07 pm
 Operator : WA
 Sample : P0801483-019 (2.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

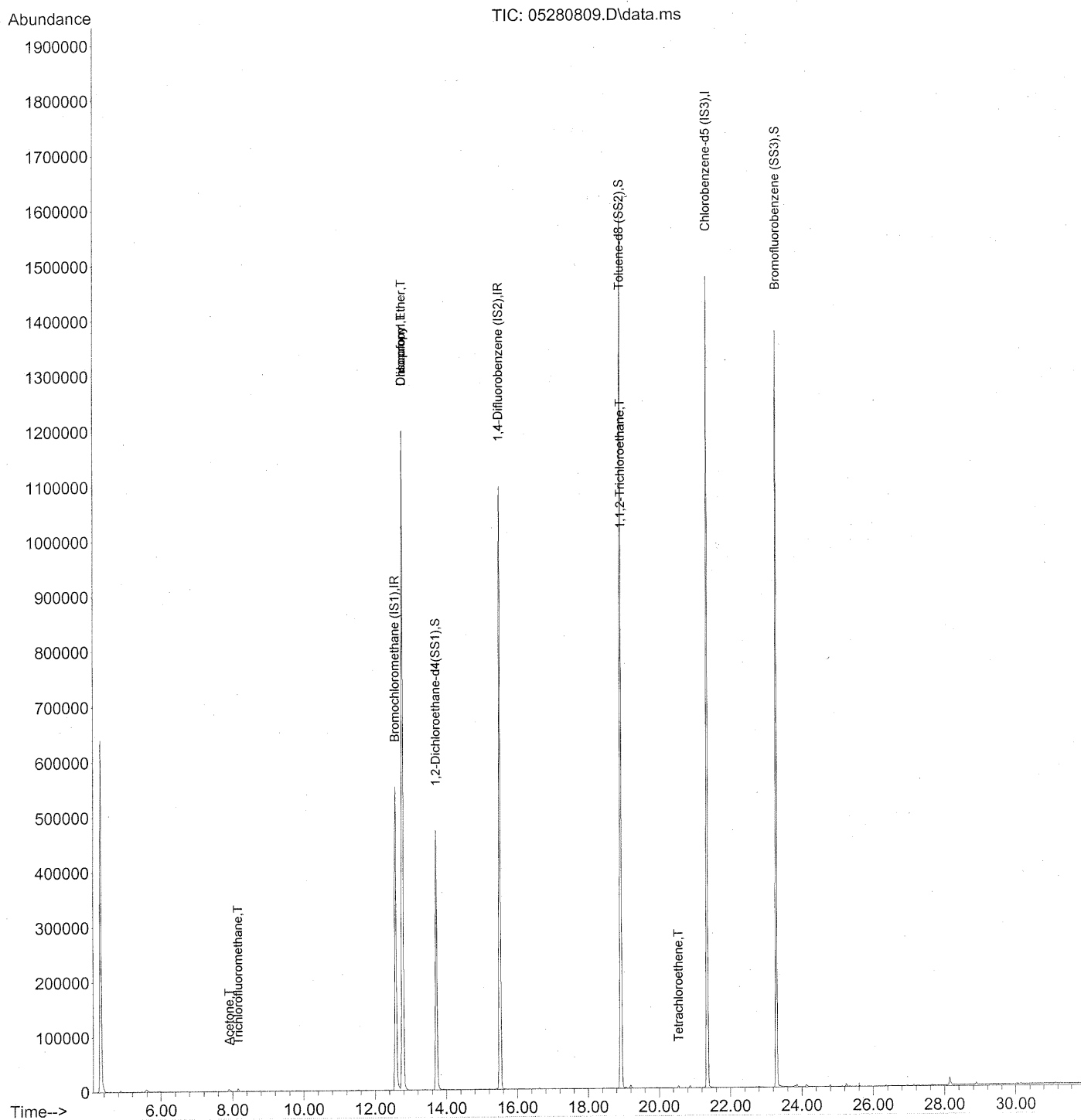
Quant Time: May 31 13:24:13 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	297813	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1234128	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	589313	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	483154	23.414	ng	-0.03
Spiked Amount	25.000		Recovery	=	93.64%	
5) Toluene-d8 (SS2)	18.92	98	1323174	25.000	ng	-0.02
Spiked Amount	25.000		Recovery	=	100.00%	
6) Bromofluorobenzene (SS3)	23.29	174	534214	24.821	ng	0.00
Spiked Amount	25.000		Recovery	=	99.28%	
Target Compounds						Qvalue
7) tert-Butylbenzene	0.00	119	0		N.D.	
8) n-Butylbenzene	25.92	91	118		N.D.	

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

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280809.D
 Acq On : 28 May 2008 15:22
 Operator : WA
 Sample : P0801483-019 Dil (0.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 16:33:57 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280809.D
 Acq On : 28 May 2008 15:22
 Operator : WA
 Sample : P0801483-019 Dil (0.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 16:33:57 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	298012	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.51	114	1275023	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	583916	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	493527	23.901	ng	-0.01
Spiked Amount	25.000		Recovery	=	95.60%	✓
57) Toluene-d8 (SS2)	18.92	98	1333175	25.422	ng	0.00
Spiked Amount	25.000		Recovery	=	101.68%	✓
73) Bromofluorobenzene (SS3)	23.29	174	528482	24.782	ng	0.00
Spiked Amount	25.000		Recovery	=	99.12%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	294		N.D.	
3) Dichlorodifluoromethane	0.00	85	0		N.D.	
4) Chloromethane	0.00	50	0		N.D.	
5) Freon 114	0.00	135	0		N.D.	
6) Vinyl Chloride	0.00	62	0		N.D.	
7) 1,3-Butadiene	0.00	54	0		N.D.	
8) Bromomethane	0.00	94	0		N.D.	
9) Chloroethane	0.00	64	0		N.D.	
10) Ethanol	7.15	45	65		N.D.	
11) Acetonitrile	7.51	41	657		N.D.	
12) Acrolein	0.00	56	0		N.D.	
13) Acetone	7.91	58	3375	0.210	ng	91
14) Trichlorofluoromethane	8.16	101	6071	0.163	ng	90
15) Isopropanol	0.00	45	0		N.D.	
16) Acrylonitrile	0.00	53	0		N.D.	
17) 1,1-Dichloroethene	0.00	96	0		N.D.	
18) tert-Butanol	0.00	59	0		N.D.	
19) Methylene Chloride	9.37	84	350		N.D.	
20) Allyl Chloride	0.00	41	0		N.D.	
21) Trichlorotrifluoroethane	0.00	151	0		N.D.	
22) Carbon Disulfide	9.78	76	812		N.D.	
23) trans-1,2-Dichloroethene	0.00	61	0		N.D.	
24) 1,1-Dichloroethane	0.00	63	0		N.D.	
25) Methyl tert-Butyl Ether	0.00	73	0		N.D.	
26) Vinyl Acetate	0.00	86	0		N.D.	
27) 2-Butanone	0.00	72	0		N.D.	
28) cis-1,2-Dichloroethene	0.00	61	0		N.D.	
29) Diisopropyl Ether	12.77	87	131844	9.189	ng	# 1
30) Ethyl Acetate	0.00	61	0		N.D.	
31) n-Hexane	0.00	57	0		N.D.	

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280809.D
 Acq On : 28 May 2008 15:22
 Operator : WA
 Sample : P0801483-019 Dil (0.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 16:33:57 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.77	83	1294960	47.653	ng	99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.71	62	124	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.94	56	65	N.D.		
41) Benzene	14.97	78	685	N.D.		
42) Carbon Tetrachloride	15.21	117	1110	N.D.		
43) Cyclohexane	15.41	84	905	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	1967	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	117204	7.104	ng	# 8
58) Toluene	19.07	91	216	N.D.		
59) 2-Hexanone	19.08	43	1115	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	19.93	43	69	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.54	166	1741	0.083	ng	99
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	0.00	91	0	N.D.		
67) m- & p-Xylene	0.00	91	0	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	0.00	91	0	N.D.		
71) n-Nonane	22.96	43	60	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.31	105	557	N.D.		
75) alpha-Pinene	24.36	93	58	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	0.00	105	0	N.D.		
79) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.		

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280809.D
 Acq On : 28 May 2008 15:22
 Operator : WA
 Sample : P0801483-019 Dil (0.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 16:33:57 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

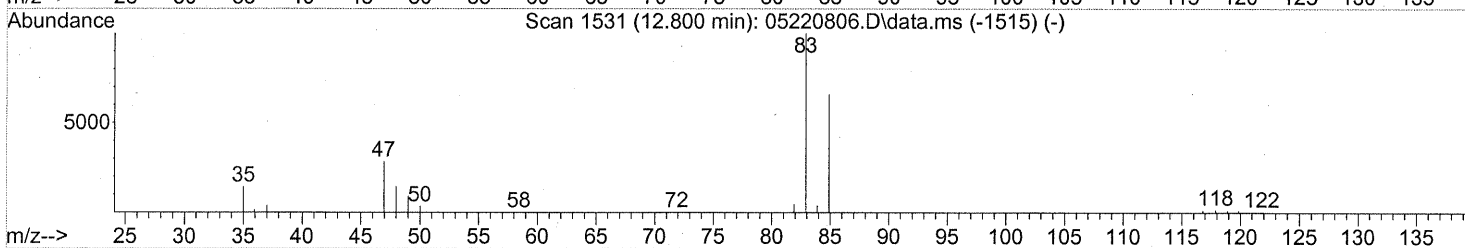
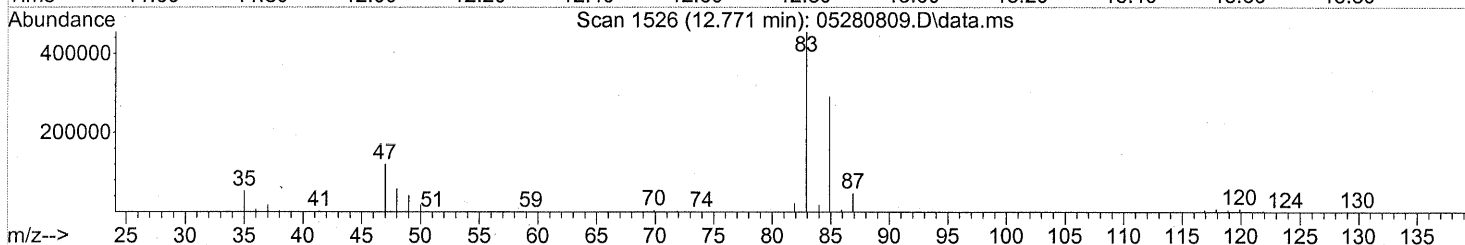
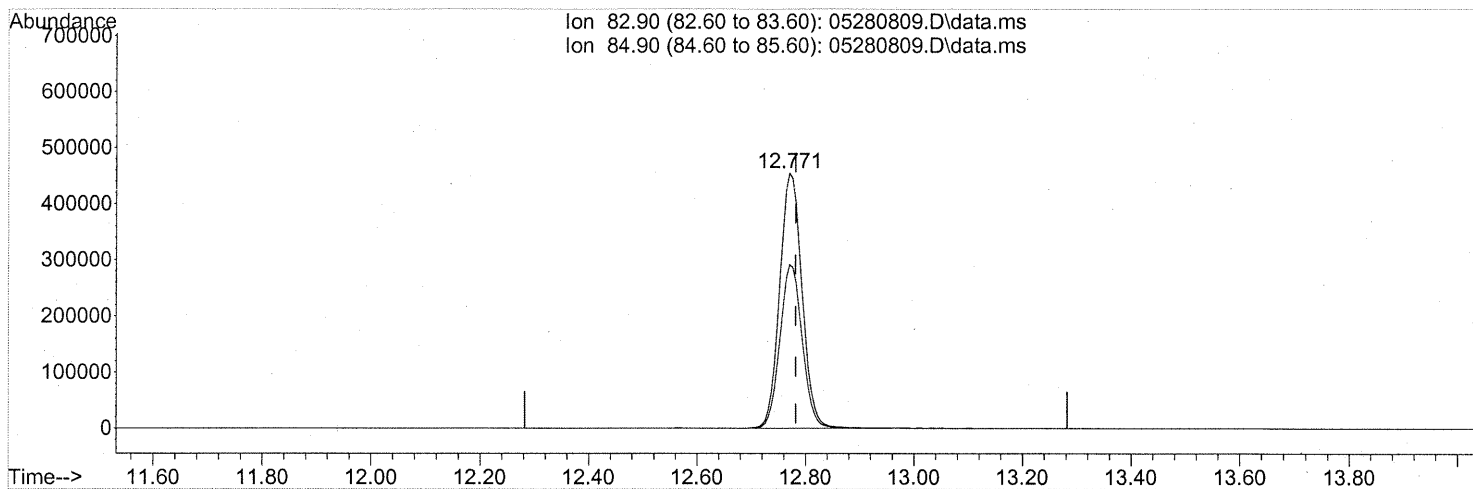
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0		N.D.	
81) 2-Ethyltoluene	0.00	105	0		N.D.	
82) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	
83) n-Decane	24.73	57	110		N.D.	
84) Benzyl Chloride	0.00	91	0		N.D.	
85) 1,3-Dichlorobenzene	0.00	146	0		N.D.	
86) 1,4-Dichlorobenzene	0.00	146	0		N.D.	
87) sec-Butylbenzene	0.00	105	0		N.D.	
88) p-Isopropyltoluene	0.00	119	0		N.D.	
89) 1,2,3-Trimethylbenzene	25.87	105	110		N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
91) d-Limonene	0.00	68	0		N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.50	57	59		N.D.	
94) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
95) Naphthalene	27.78	128	1162		N.D.	
96) n-Dodecane	27.66	57	106		N.D.	
97) Hexachloro-1,3-butadiene	0.00	225	0		N.D.	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280809.D
 Acq On : 28 May 2008 15:22
 Operator : WA
 Sample : P0801483-019 Dil (0.5ml)
 Misc : ENSR SG32B-05 (-3.5, 3.5)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 16:33:57 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)
 12.771min (-0.011) 47.65ng
 response 1294960

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.70
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG63B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-020

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00994

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/27 - 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.80	0.080	0.43	0.16	0.016	
74-87-3	Chloromethane	0.099	0.16	0.080	0.048	0.078	0.039	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.099	0.80	0.080	0.014	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.16	0.080	ND	0.063	0.031	
74-83-9	Bromomethane	ND	0.16	0.080	ND	0.041	0.021	
75-00-3	Chloroethane	0.20	0.16	0.080	0.076	0.061	0.030	
64-17-5	Ethanol	3.4	8.0	0.080	1.8	4.2	0.042	J, B
67-64-1	Acetone	10	8.0	0.12	4.4	3.4	0.049	B
75-69-4	Trichlorofluoromethane	180	0.16	0.080	32	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.80	0.11	ND	0.37	0.052	
75-35-4	1,1-Dichloroethene	ND	0.16	0.080	ND	0.040	0.020	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.44	0.80	0.12	0.14	0.26	0.039	J
75-09-2	Methylene Chloride	0.13	0.80	0.080	0.036	0.23	0.023	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.080	ND	0.051	0.026	
76-13-1	Trichlorotrifluoroethane	0.48	0.16	0.090	0.063	0.021	0.012	
75-15-0	Carbon Disulfide	0.41	0.80	0.19	0.13	0.26	0.062	J, B
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.080	ND	0.040	0.020	
75-34-3	1,1-Dichloroethane	ND	0.16	0.080	ND	0.040	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.080	ND	0.044	0.022	
108-05-4	Vinyl Acetate	4.0	8.0	0.26	1.1	2.3	0.073	J, B
78-93-3	2-Butanone (MEK)	3.1	0.80	0.080	1.1	0.27	0.027	B
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.080	ND	0.040	0.020	
108-20-3	Diisopropyl Ether	ND	0.80	0.094	ND	0.19	0.023	
67-66-3	Chloroform	140	0.16	0.094	28	0.033	0.019	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08 **827**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG63B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-020

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00994

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.80	0.082	ND	0.19	0.020	
107-06-2	1,2-Dichloroethane	ND	0.16	0.080	ND	0.040	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.080	ND	0.029	0.015	
71-43-2	Benzene	1.1	0.16	0.080	0.34	0.050	0.025	
56-23-5	Carbon Tetrachloride	240	0.16	0.080	39	0.025	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.80	0.080	ND	0.19	0.019	
78-87-5	1,2-Dichloropropane	ND	0.16	0.080	ND	0.035	0.017	
75-27-4	Bromodichloromethane	4.4	0.16	0.080	0.66	0.024	0.012	
79-01-6	Trichloroethene	0.14	0.16	0.080	0.026	0.030	0.015	J
123-91-1	1,4-Dioxane	0.20	0.80	0.098	0.056	0.22	0.027	J
80-62-6	Methyl Methacrylate	ND	0.80	0.12	ND	0.20	0.029	
142-82-5	n-Heptane	ND	0.80	0.10	ND	0.20	0.025	
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.083	ND	0.18	0.018	
108-10-1	4-Methyl-2-pentanone	0.18	0.80	0.090	0.043	0.20	0.022	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.10	ND	0.18	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.080	ND	0.029	0.015	
108-88-3	Toluene	24	0.80	0.080	6.4	0.21	0.021	
591-78-6	2-Hexanone	0.41	0.80	0.12	0.10	0.20	0.030	J
124-48-1	Dibromochloromethane	1.1	0.16	0.11	0.12	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.086	ND	0.021	0.011	
111-65-9	n-Octane	ND	0.80	0.080	ND	0.17	0.017	
127-18-4	Tetrachloroethene	2.9	0.16	0.080	0.43	0.024	0.012	
108-90-7	Chlorobenzene	ND	0.16	0.082	ND	0.035	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG63B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-020

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00994

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/27 - 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.12	0.80	0.099	0.028	0.18	0.023	J
179601-23-1	m,p-Xylenes	0.58	0.80	0.21	0.13	0.18	0.048	J
75-25-2	Bromoform	ND	0.80	0.12	ND	0.077	0.012	
100-42-5	Styrene	ND	0.80	0.12	ND	0.19	0.029	
95-47-6	o-Xylene	0.30	0.80	0.10	0.070	0.18	0.023	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	Cumene	ND	0.80	0.090	ND	0.16	0.018	
103-65-1	n-Propylbenzene	0.16	0.80	0.083	0.033	0.16	0.017	J
622-96-8	4-Ethyltoluene	0.26	0.80	0.091	0.052	0.16	0.019	J
108-67-8	1,3,5-Trimethylbenzene	0.33	0.80	0.096	0.068	0.16	0.020	J
98-83-9	alpha-Methylstyrene	0.14	0.80	0.12	0.029	0.17	0.024	J
95-63-6	1,2,4-Trimethylbenzene	1.5	0.80	0.11	0.31	0.16	0.022	
100-44-7	Benzyl Chloride	0.22	0.16	0.14	0.042	0.031	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.099	ND	0.027	0.017	
106-46-7	1,4-Dichlorobenzene	8.7	0.16	0.090	1.4	0.027	0.015	
135-98-8	sec-Butylbenzene	ND	0.80	0.093	ND	0.15	0.017	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.17	0.80	0.10	0.031	0.15	0.019	J
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.11	ND	0.027	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.80	0.12	ND	0.083	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	0.12	ND	0.022	0.016	
91-20-3	Naphthalene	3.3	0.32	0.12	0.62	0.061	0.023	
87-68-3	Hexachlorobutadiene	ND	0.16	0.14	ND	0.015	0.014	
98-06-6	tert-Butylbenzene	ND	0.32	0.080	ND	0.058	0.015	
104-51-8	n-Butylbenzene	0.42	0.32	0.080	0.076	0.058	0.015	M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

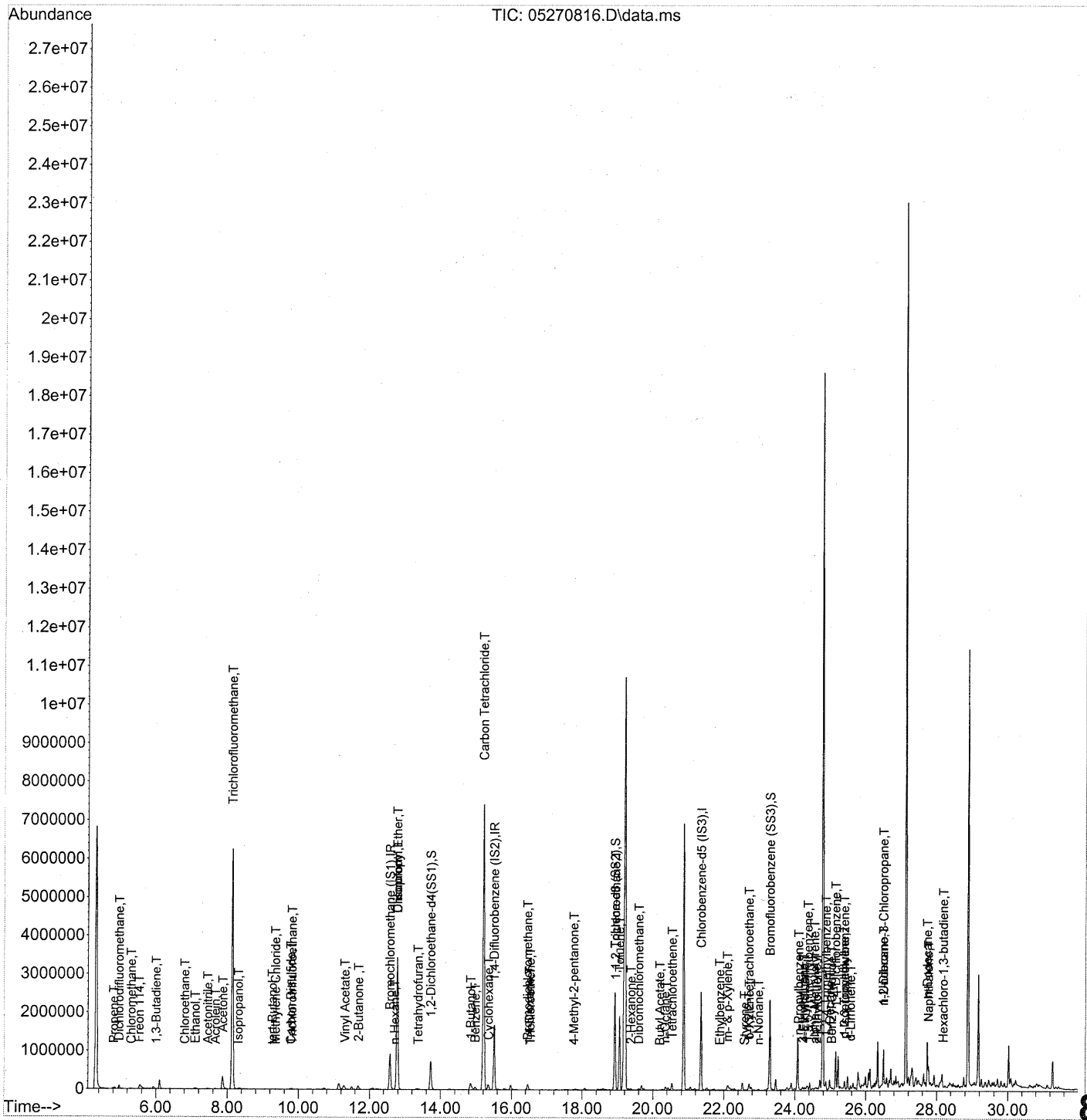
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Date: 6/4/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 10:57:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



830

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 10:57:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	476389	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1976297	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	975336	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	765932	23.204	ng	0.00
Spiked Amount	25.000		Recovery =	92.80%		✓
57) Toluene-d8 (SS2)	18.93	98	2119793	24.200	ng	0.00
Spiked Amount	25.000		Recovery =	96.80%		✓
73) Bromofluorobenzene (SS3)	23.29	174	889157	24.962	ng	0.00
Spiked Amount	25.000		Recovery =	99.84%		✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.81	42	13979	0.372	ng	# 78
3) Dichlorodifluoromethane	4.97	85	91672	1.322	ng	97
4) Chloromethane	5.30	50	2803	0.062	ng	84
5) Freon 114	5.53	135	2131	0.062	ng	100
6) Vinyl Chloride	0.00	62	0	N.D.		✓
7) 1,3-Butadiene	6.00	54	1987	0.059	ng	# 77
8) Bromomethane	6.48	94	378	N.D.		✓
9) Chloroethane	6.81	64	2668	0.125	ng	93
10) Ethanol	7.10	45	52826m	2.109	ng	
11) Acetonitrile	7.45	41	27081	0.374	ng	96
12) Acrolein	7.67	56	14688	0.821	ng	97
13) Acetone	7.87	58	166866m	6.507	ng	
14) Trichlorofluoromethane	8.14	101	6805065	114.373	ng	see dil 99
15) Isopropanol	8.32	45	45121	0.552	ng	92
16) Acrylonitrile	8.64	53	757	N.D.		✓
17) 1,1-Dichloroethene	0.00	96	0	N.D.		✓
18) tert-Butanol	9.27	59	18932m	0.272	ng	
19) Methylene Chloride	9.36	84	2274	0.079	ng	# 62
20) Allyl Chloride	9.56	41	73	N.D.		✓
21) Trichlorotrifluoroethane	9.82	151	8141	0.301	ng	96
22) Carbon Disulfide	9.78	76	27701	0.255	ng	98
23) trans-1,2-Dichloroethene	10.72	61	137	N.D.		✓
24) 1,1-Dichloroethane	11.10	63	1949	N.D.		✓
25) Methyl tert-Butyl Ether	11.22	73	460	N.D.		✓
26) Vinyl Acetate	11.31	86	11828	2.496	ng	# 1
27) 2-Butanone	11.69	72	36795	1.966	ng	# 89
28) cis-1,2-Dichloroethene	12.09	61	133	N.D.		✓
29) Diisopropyl Ether	12.78	87	387712	16.905	ng	NR# 1
30) Ethyl Acetate	12.70	61	499	N.D.		
31) n-Hexane	12.71	57	4411	0.087	ng	98

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DA 5/31/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 10:57:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	3748362	86.287	ng	100
34) Tetrahydrofuran	13.37	72	3447	0.193	ng #	36
35) Ethyl tert-Butyl Ether	13.48	87	587	N.D.✓		
36) 1,2-Dichloroethane	13.89	62	108	N.D.✓		
38) 1,1,1-Trichloroethane	14.29	97	1720	N.D.✓		
39) Isopropyl Acetate	14.97	61	291	N.D.		
40) 1-Butanol	14.85	56	169776	6.250	ng	87
41) Benzene	14.98	78	69909	0.676	ng	100
42) Carbon Tetrachloride	15.21	117	6362865	159.664	ng see dil	99
43) Cyclohexane	15.35	84	8692	0.216	ng #	1
44) tert-Amyl Methyl Ether	15.87	73	1180	N.D.✓		
45) 1,2-Dichloropropane	0.00	63	0	N.D.✓		
46) Bromodichloromethane	16.46	83	96625	2.762	ng	99
47) Trichloroethene	16.53	130	2720	0.086	ng	98
48) 1,4-Dioxane	16.51	88	2457m	0.126	ng	
49) Isooctane	16.62	57	5764	N.D.		
50) Methyl Methacrylate	16.97	100	278	N.D.✓		
51) n-Heptane	16.98	71	1118	N.D.✓		
52) cis-1,3-Dichloropropene	17.71	75	66	N.D.✓		
53) 4-Methyl-2-pentanone	17.77	58	3042	0.111	ng	87
54) trans-1,3-Dichloropropene	18.46	75	365	N.D.✓		
55) 1,1,2-Trichloroethane	18.94	97	188060	7.354	ng NR #	9
58) Toluene	19.06	91	1786608	15.005	ng	98
59) 2-Hexanone	19.38	43	20975	0.256	ng #	67
60) Dibromochloromethane	19.60	129	21113	0.657	ng	100
61) 1,2-Dibromoethane	0.00	107	0	N.D.✓		
62) Butyl Acetate	20.19	43	10237	0.123	ng	80
63) n-Octane	20.35	57	2545	0.097	ng NR	79
64) Tetrachloroethene	20.54	166	63971	1.816	ng	98
65) Chlorobenzene	21.40	112	2257	N.D.✓		
66) Ethylbenzene	21.88	91	10185	0.075	ng	91
67) m- & p-Xylene	22.10	91	33064	0.362	ng	93
68) Bromoform	22.21	173	426	N.D.✓		
69) Styrene	22.58	104	5614	0.069	ng #	60
70) o-Xylene	22.71	91	18672	0.189	ng	77
71) n-Nonane	22.98	43	16318	0.233	ng #	83
72) 1,1,2,2-Tetrachloroethane	22.70	83	2135	0.052	ng	75
74) Cumene	23.46	105	3939	N.D.✓		
75) alpha-Pinene	23.96	93	3205	N.D.		
76) n-Propylbenzene	24.10	91	16851	0.101	ng #	86
77) 3-Ethyltoluene	24.23	105	37106	0.266	ng	100
78) 4-Ethyltoluene	24.28	105	20808	0.160	ng	99
79) 1,3,5-Trimethylbenzene	24.37	105	24434	0.208	ng	95

832

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 10:57:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

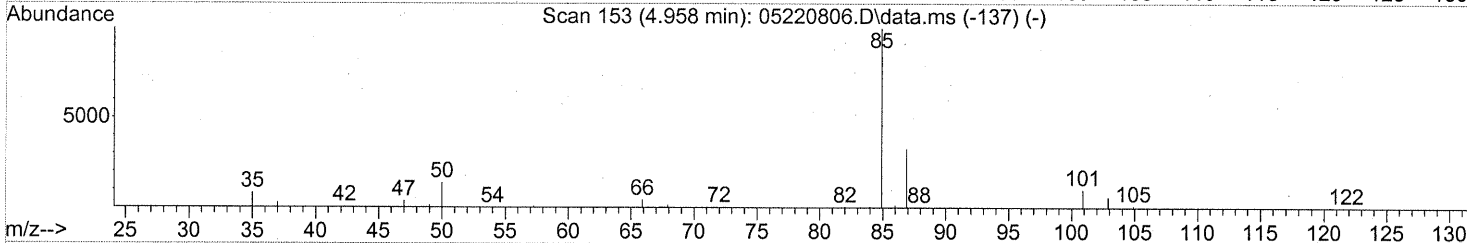
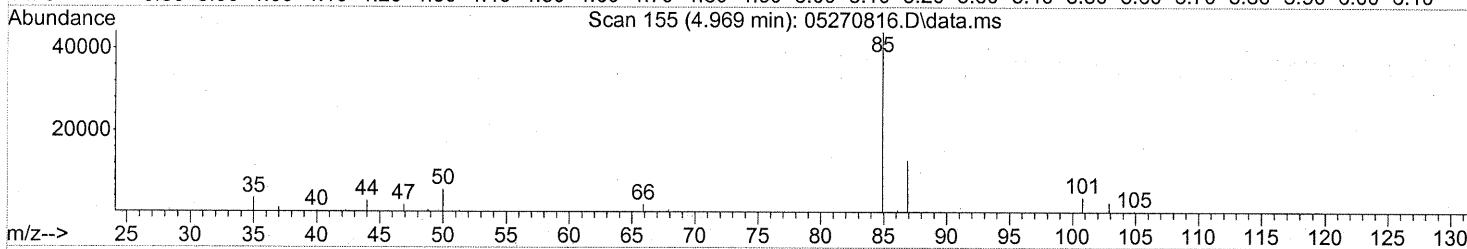
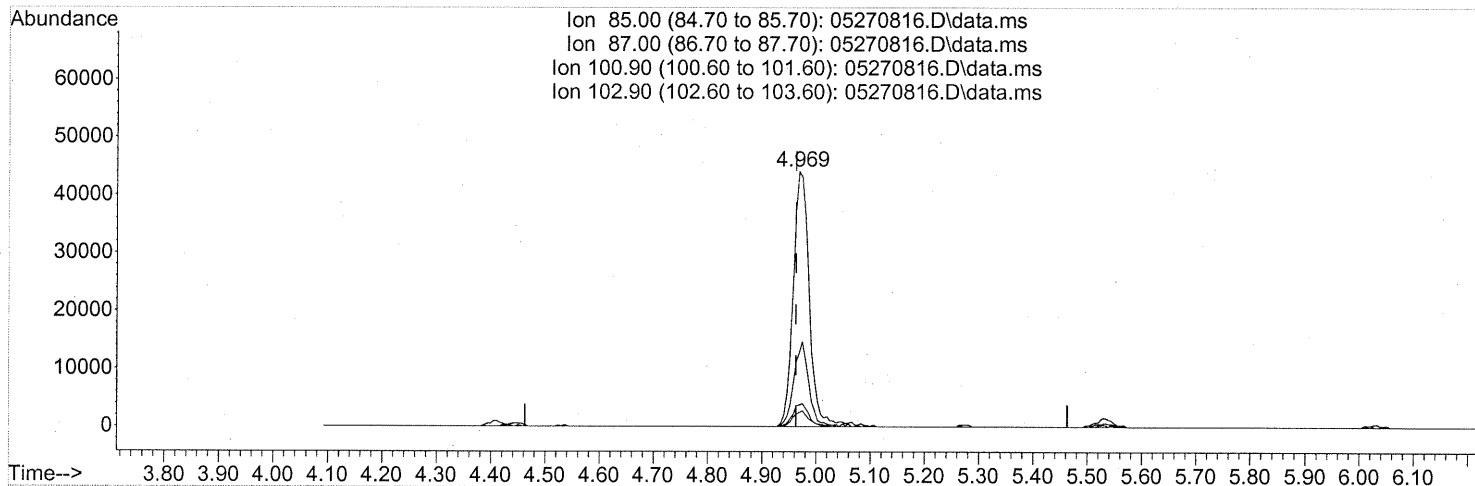
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	5641	0.089 ng	#	72
81) 2-Ethyltoluene	24.61	105	24982	0.176 ng		98
82) 1,2,4-Trimethylbenzene	24.88	105	112756	0.941 ng		85
83) n-Decane	24.98	57	117391	1.781 ng		80
84) Benzyl Chloride	25.04	91	10886	0.135 ng		92
85) 1,3-Dichlorobenzene	25.08	146	1341	N.D. ✓		
86) 1,4-Dichlorobenzene	25.15	146	393451	5.418 ng		100
87) sec-Butylbenzene	25.21	105	7025	N.D. ✓		
88) p-Isopropyltoluene	25.39	119	13584	0.108 ng	#	64
89) 1,2,3-Trimethylbenzene	25.40	105	42557	0.363 ng		84
90) 1,2-Dichlorobenzene	25.58	146	1346	N.D. ✓		
91) d-Limonene	25.57	68	27122	0.568 ng		93
92) 1,2-Dibromo-3-Chloropr...	26.50	157	1846	0.084 ng NR #		1
93) n-Undecane	26.50	57	368956	5.348 ng	#	70
94) 1,2,4-Trichlorobenzene	27.63	180	1641	N.D. ✓		
95) Naphthalene	27.77	128	321529	2.035 ng		95
96) n-Dodecane	27.73	57	381673	5.563 ng		83
97) Hexachloro-1,3-butadiene	28.19	225	2086	0.060 ng		93

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 1.32ng

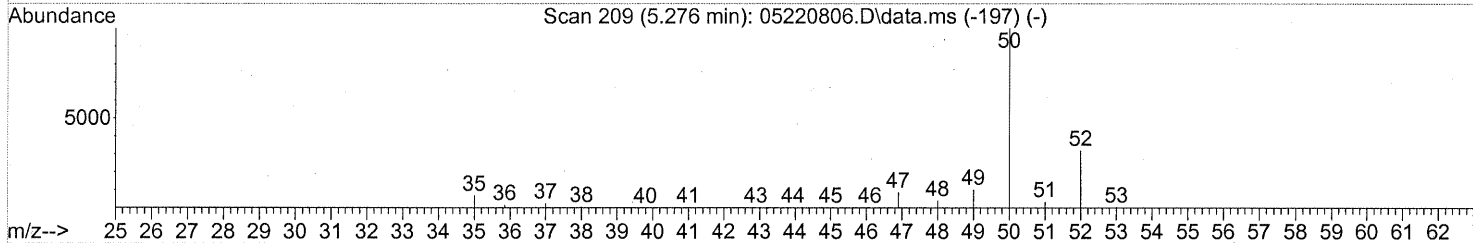
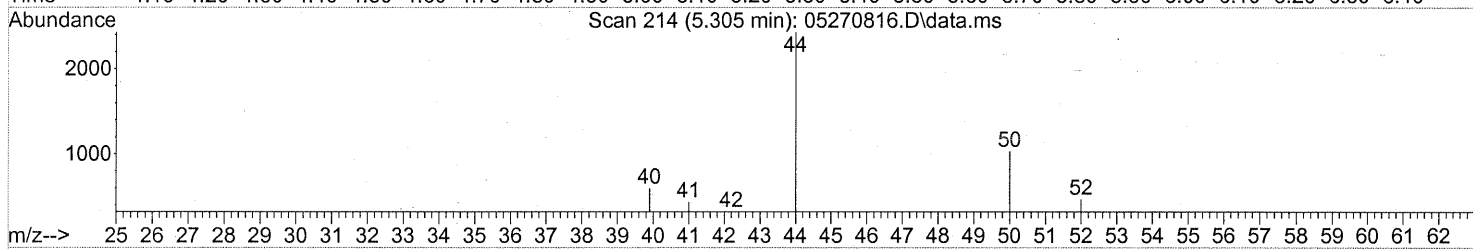
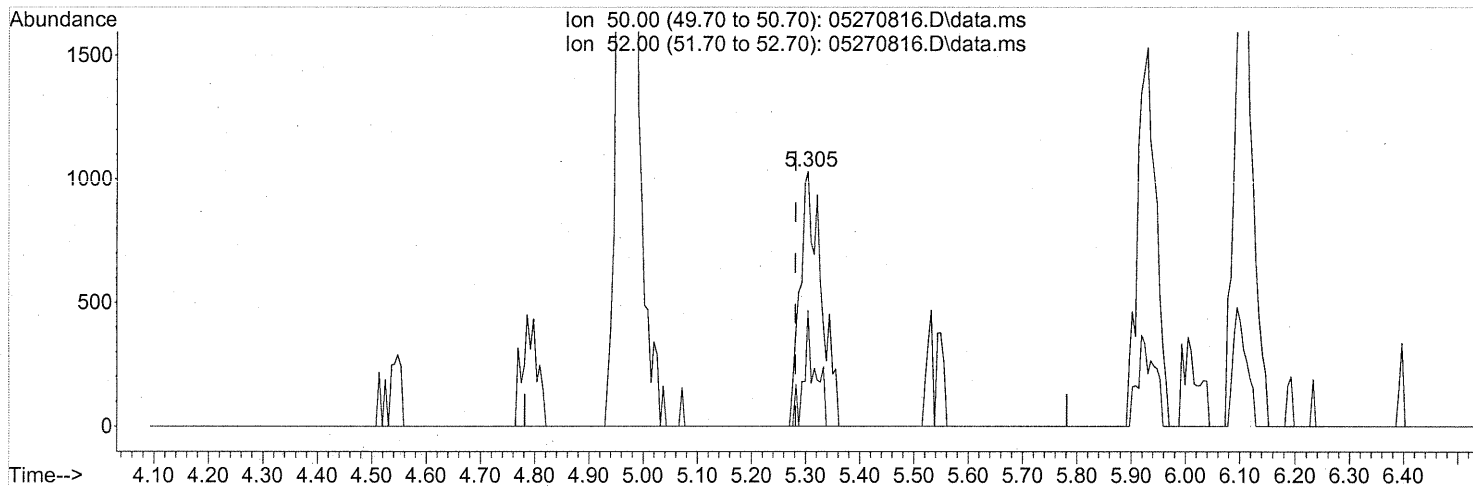
response 91672

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	30.63
100.90	9.30	8.98
102.90	6.00	5.81

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

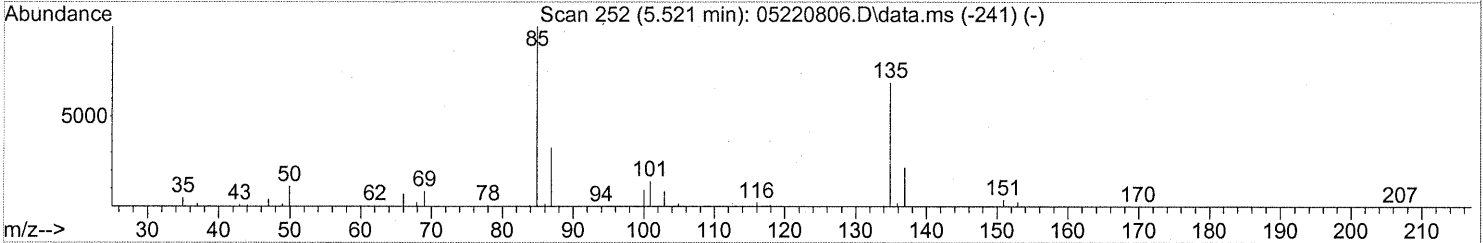
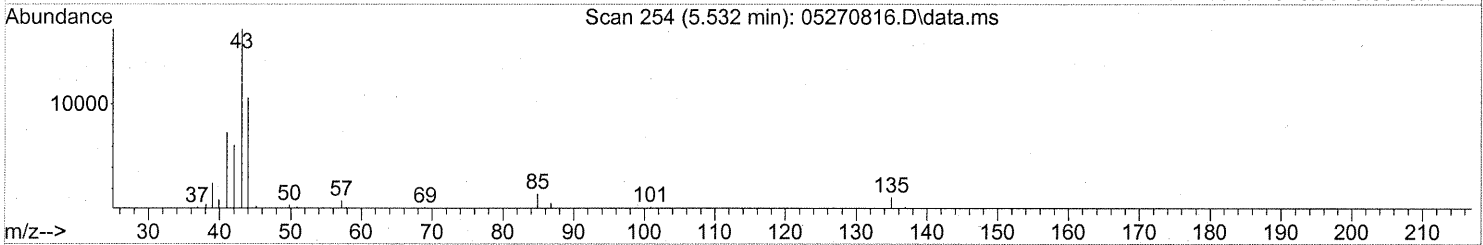
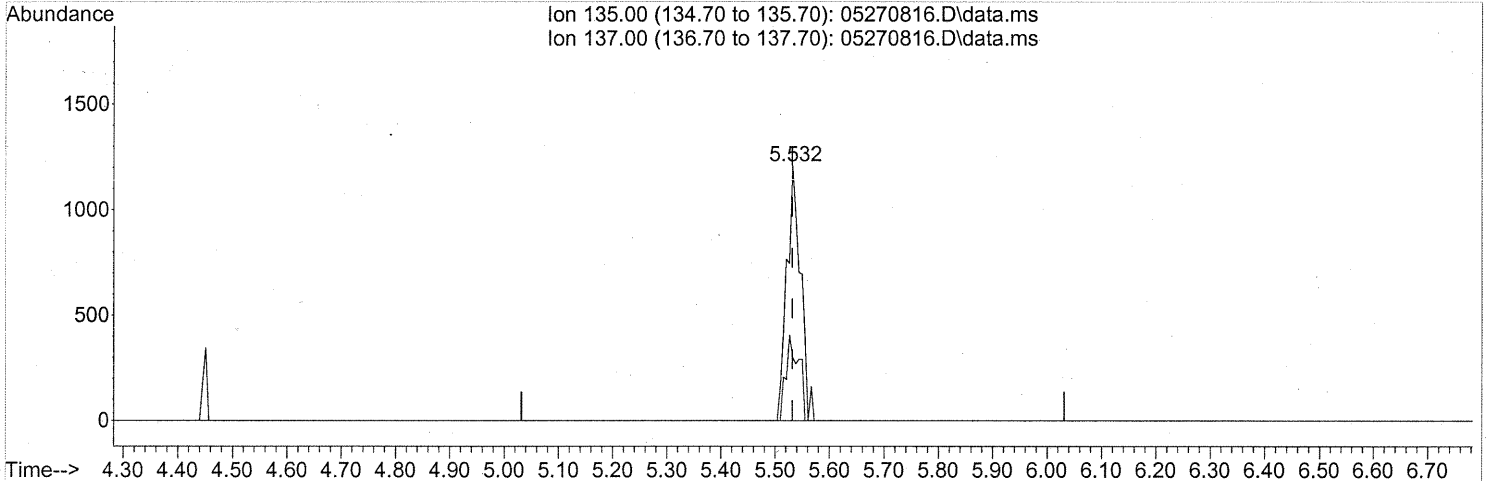
(4) Chloromethane (T)
 5.305min (+0.023) 0.06ng
 response 2803

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	24.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(5) Freon 114 (T)
 5.532min (+0.000) 0.06ng

response 2131

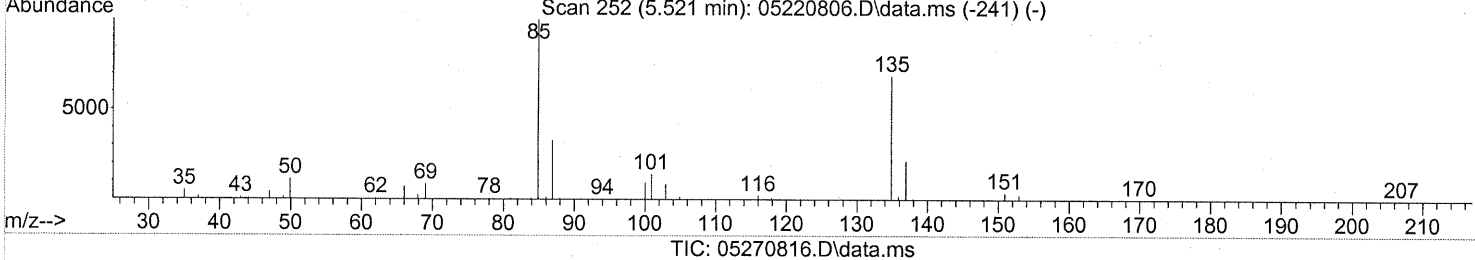
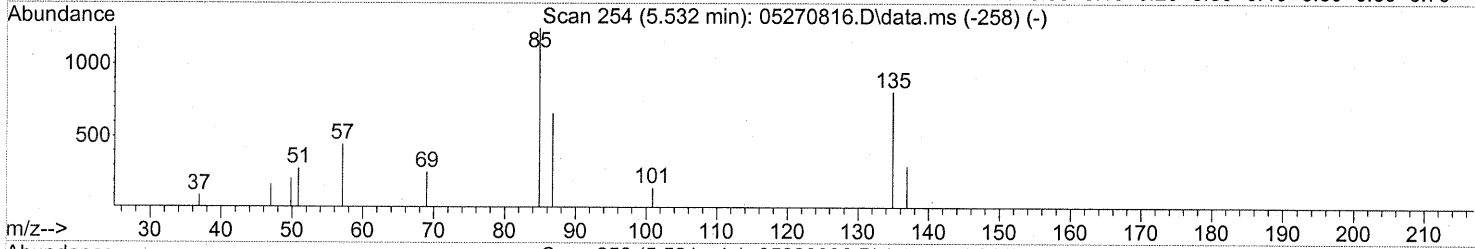
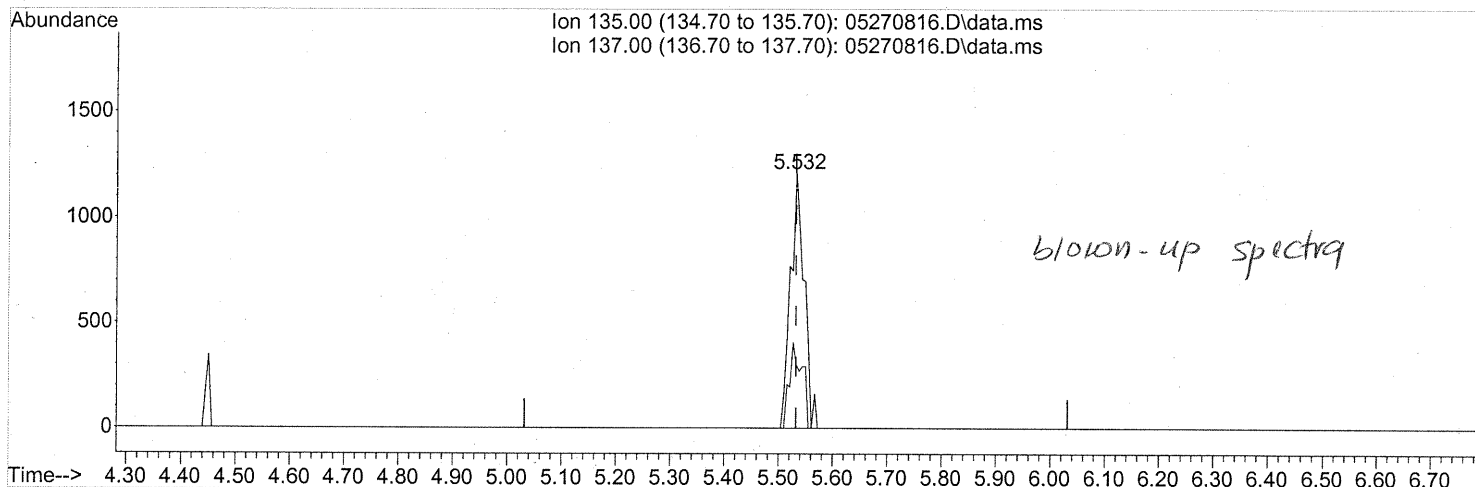
Ion	Exp%	Act%
135.00	100	100
137.00	31.50	31.25
0.00	0.00	0.00
0.00	0.00	0.00

see blown up spectra

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



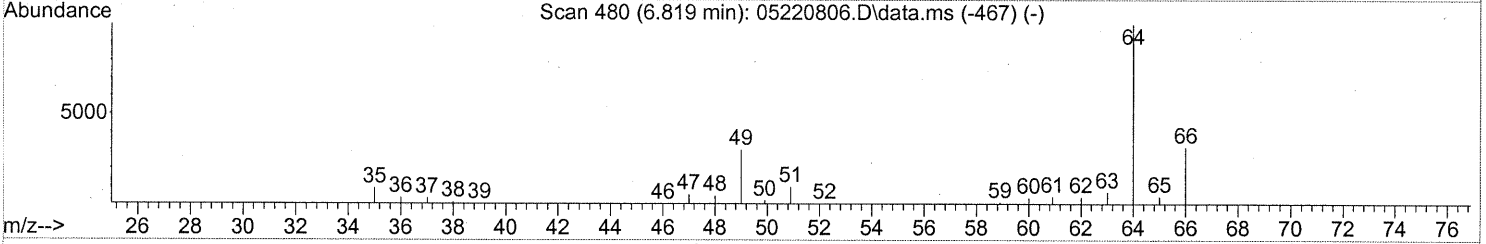
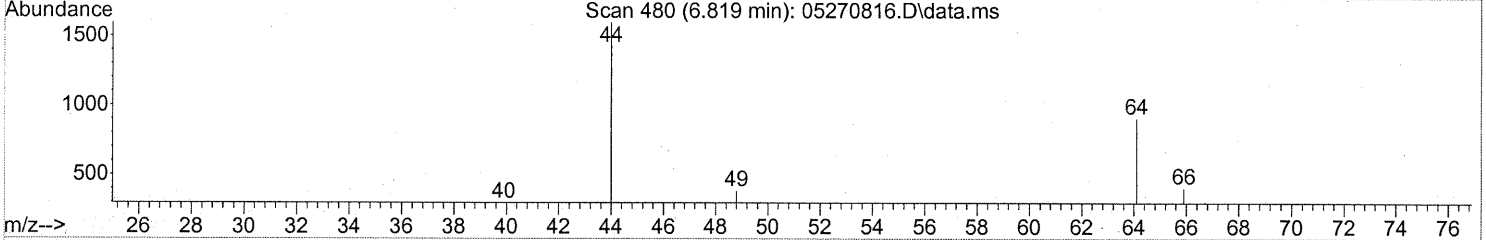
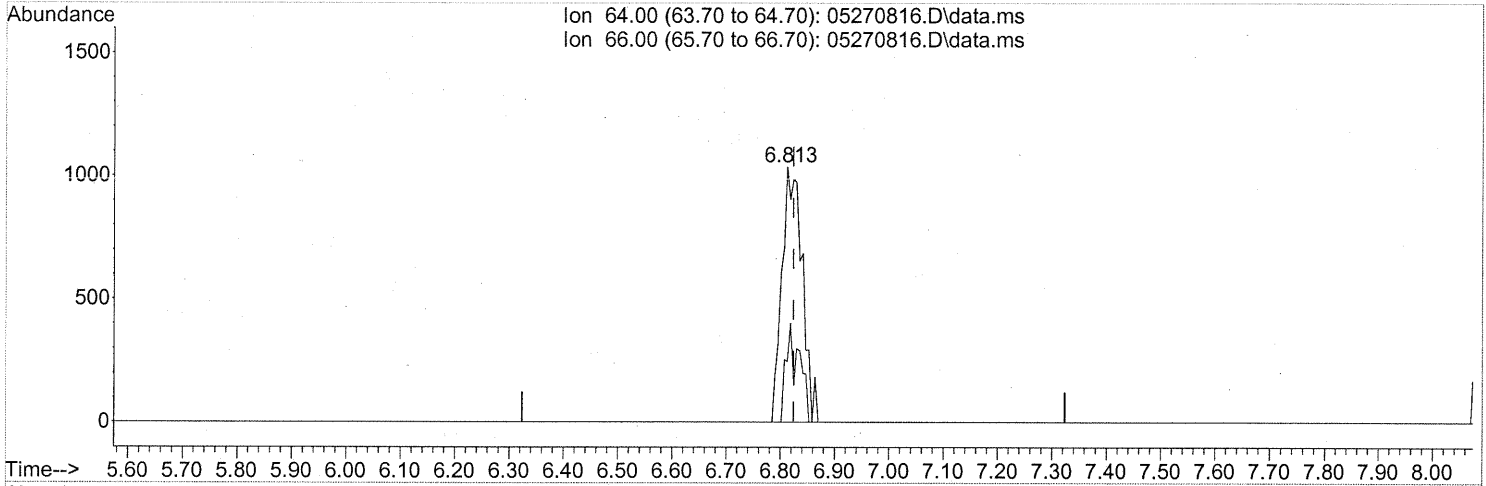
(5) Freon 114 (T)
 5.532min (+0.000) 0.06ng
 response 2131

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	31.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(9) Chloroethane (T)

6.813min (-0.011) 0.13ng

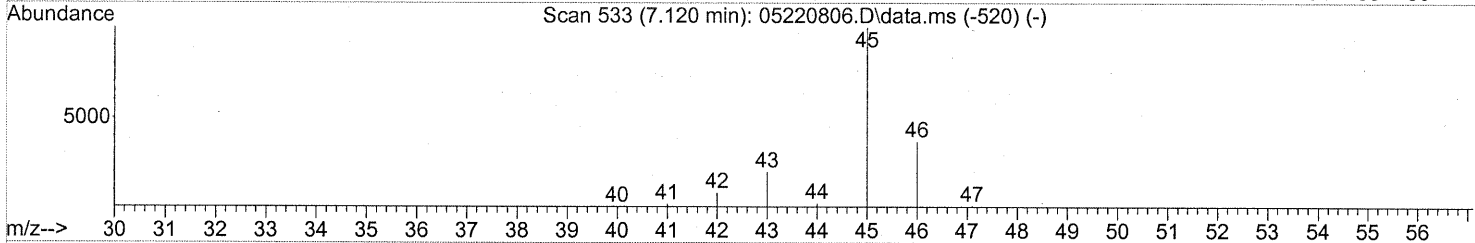
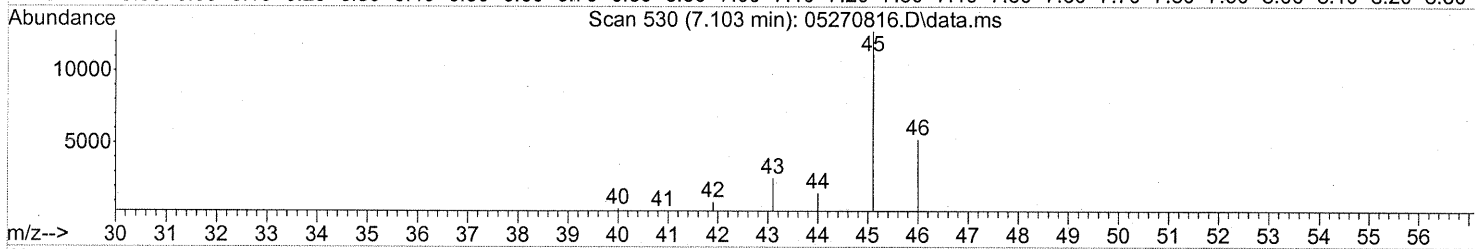
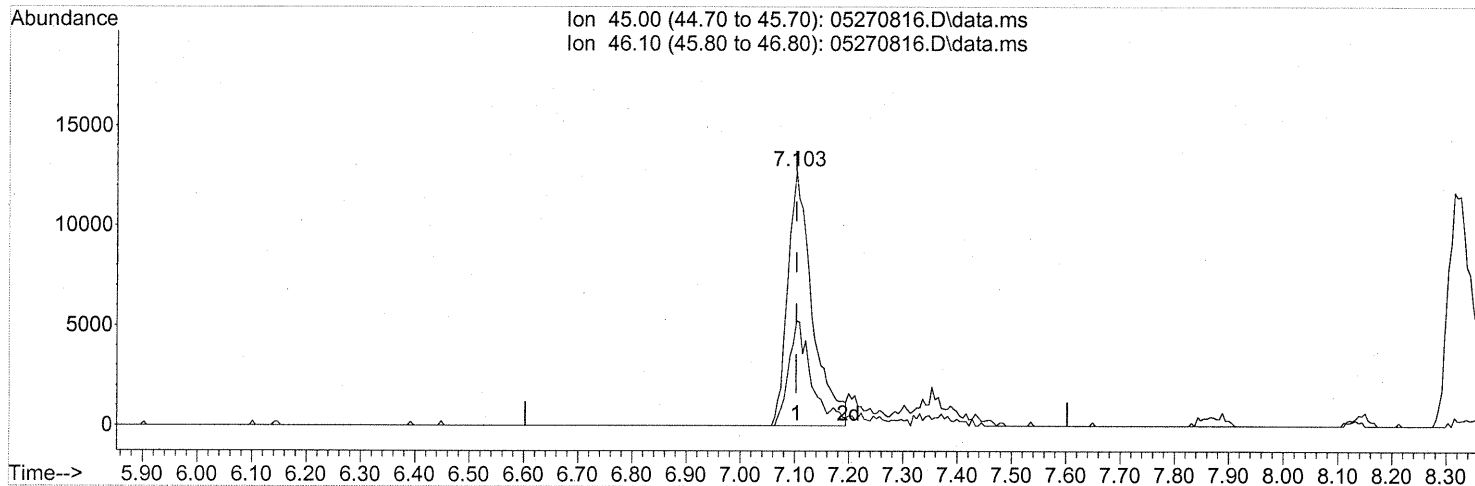
response 2668

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	25.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)
 7.103min (+0.000) 1.60ng
 response 39988

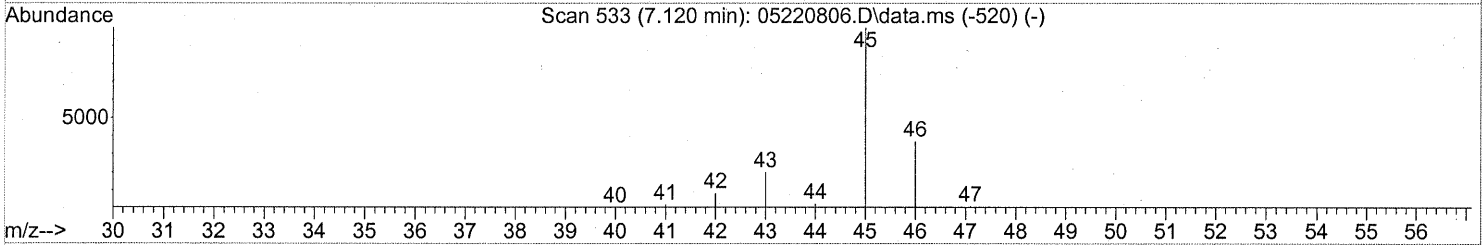
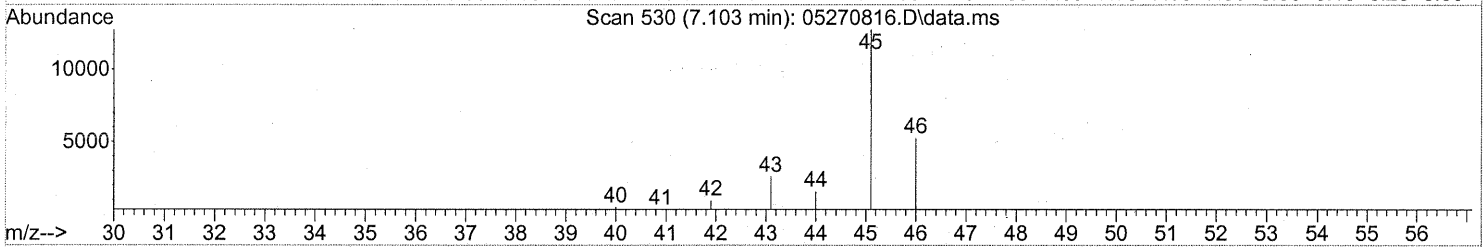
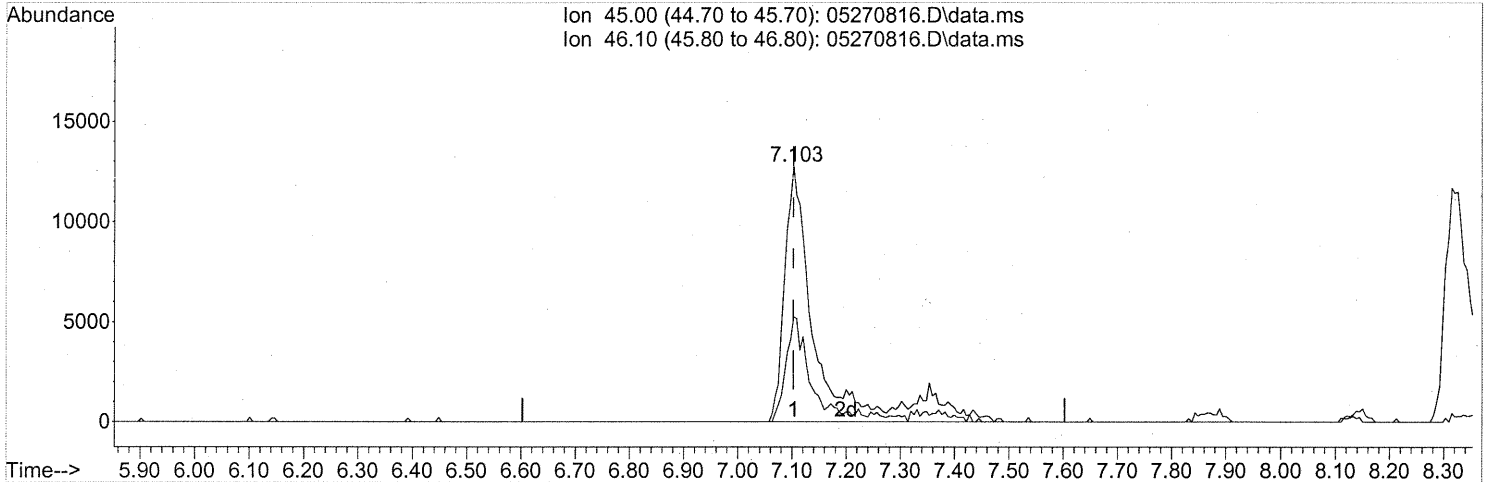
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	39.88
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(10) Ethanol (T)

7.103min (+0.000) 2.11ng m

response 52826

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	30.19
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

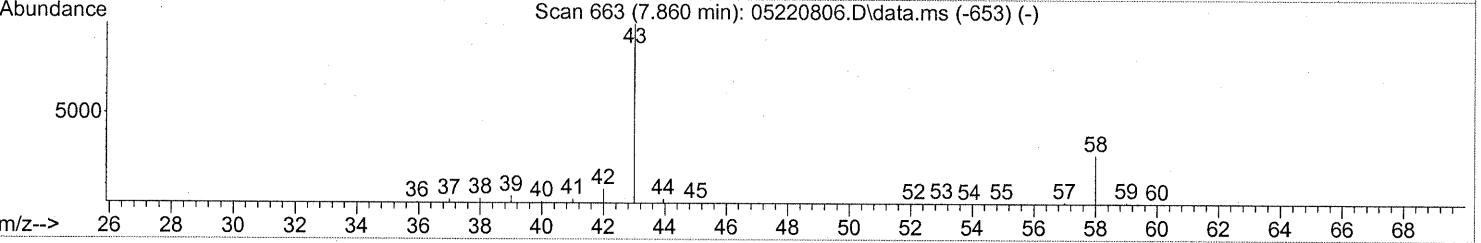
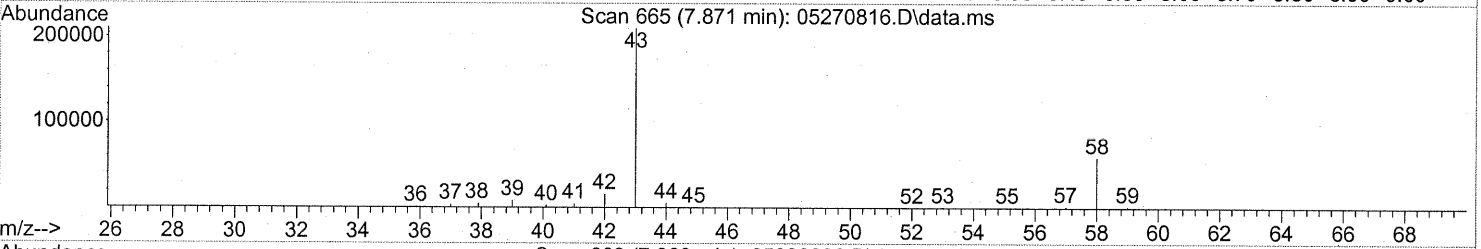
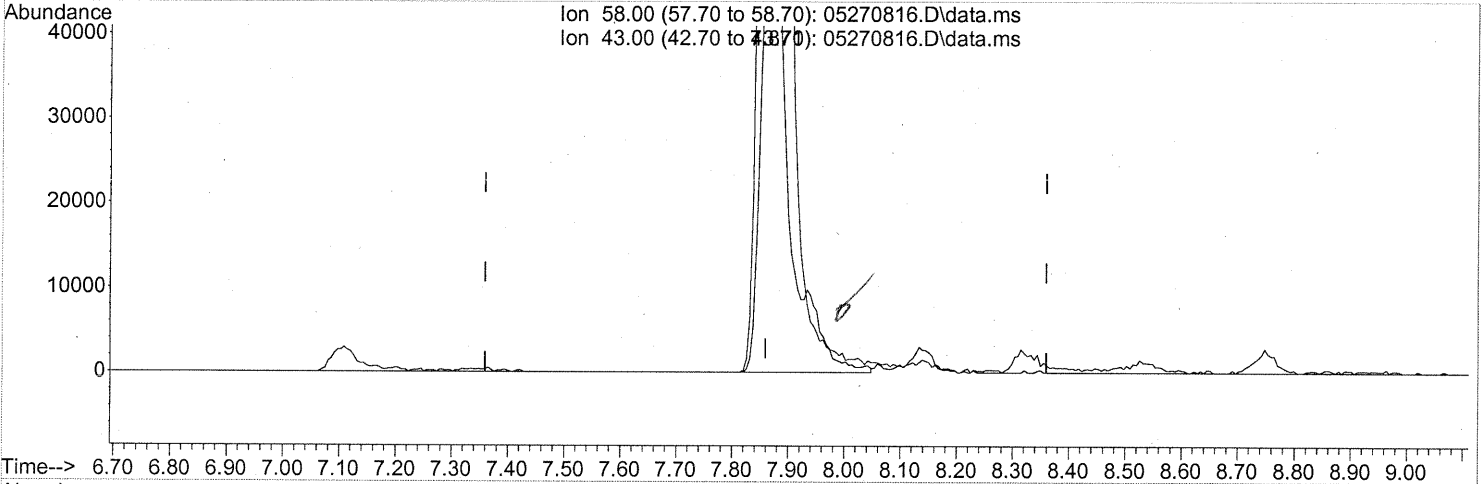
DA 5/31/08

Bud 2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(13) Acetone (T)

7.871min (+0.011) 7.44ng

response 190682

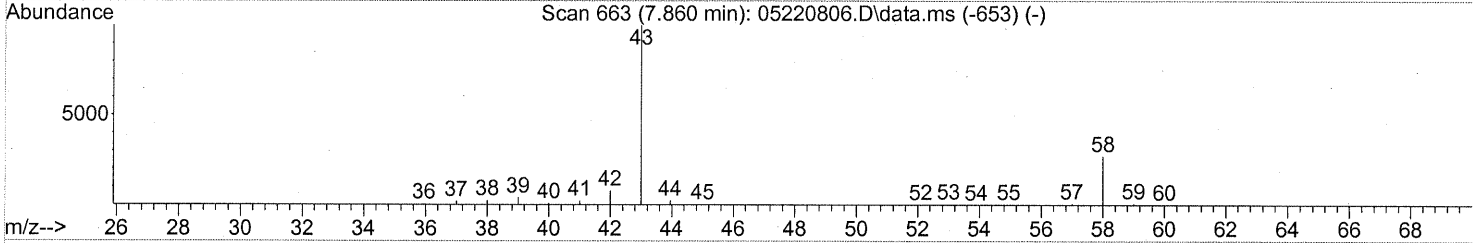
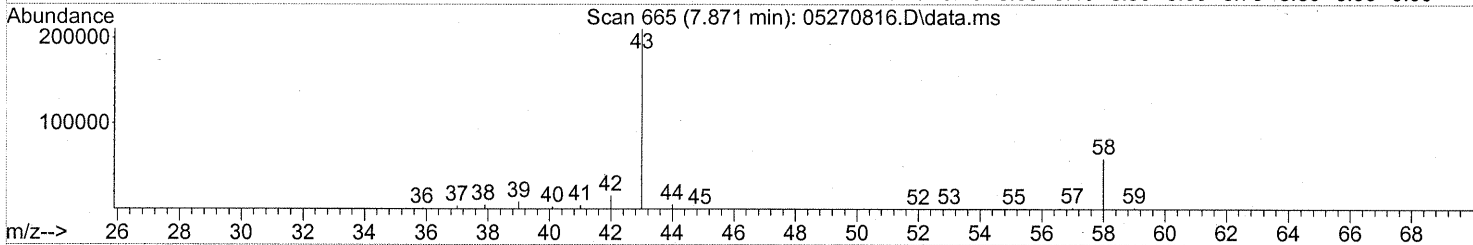
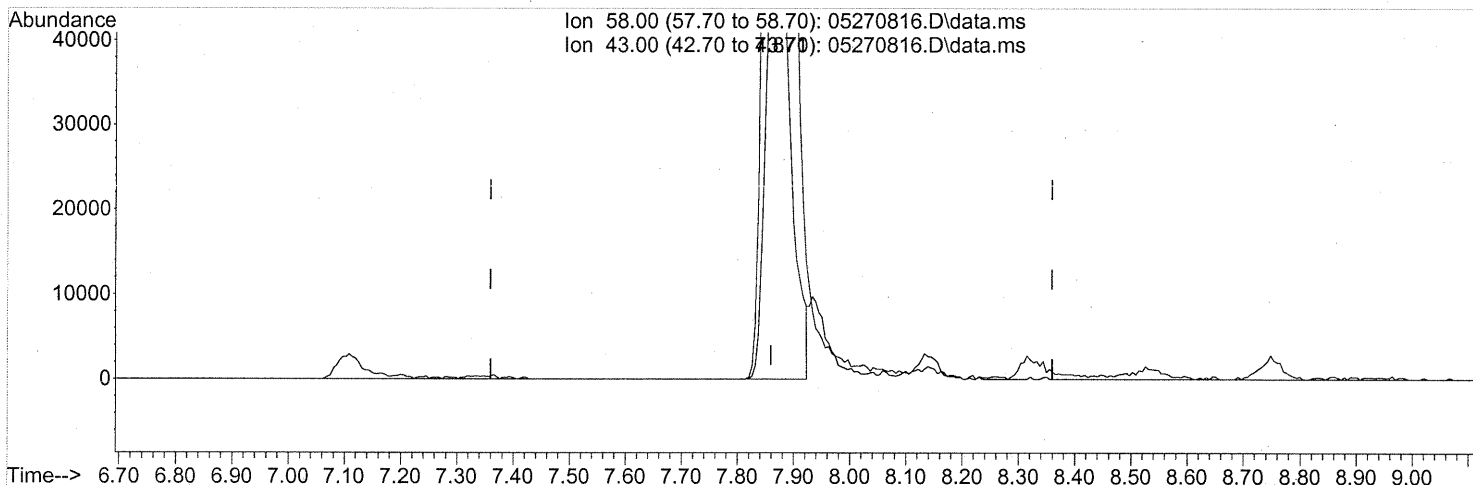
interf-shoulder

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	322.71#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(13) Acetone (T)
 7.871min (+0.011) 6.51ng m
 response 166866

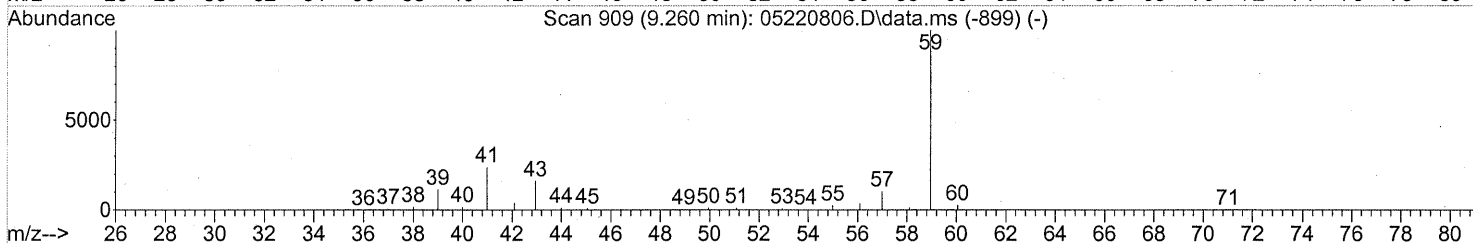
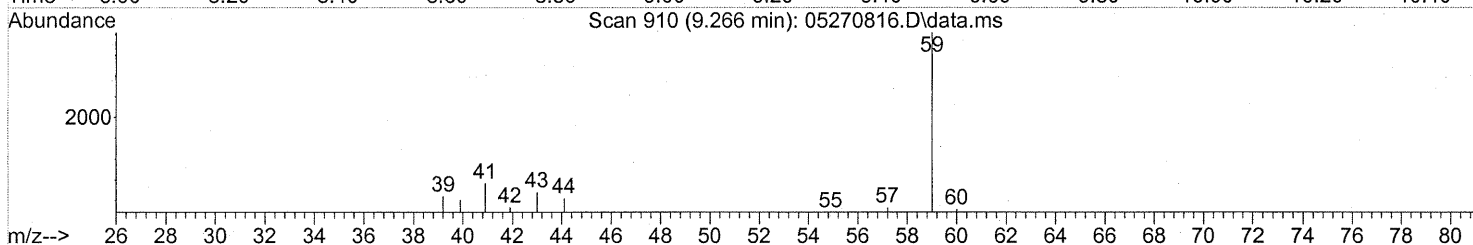
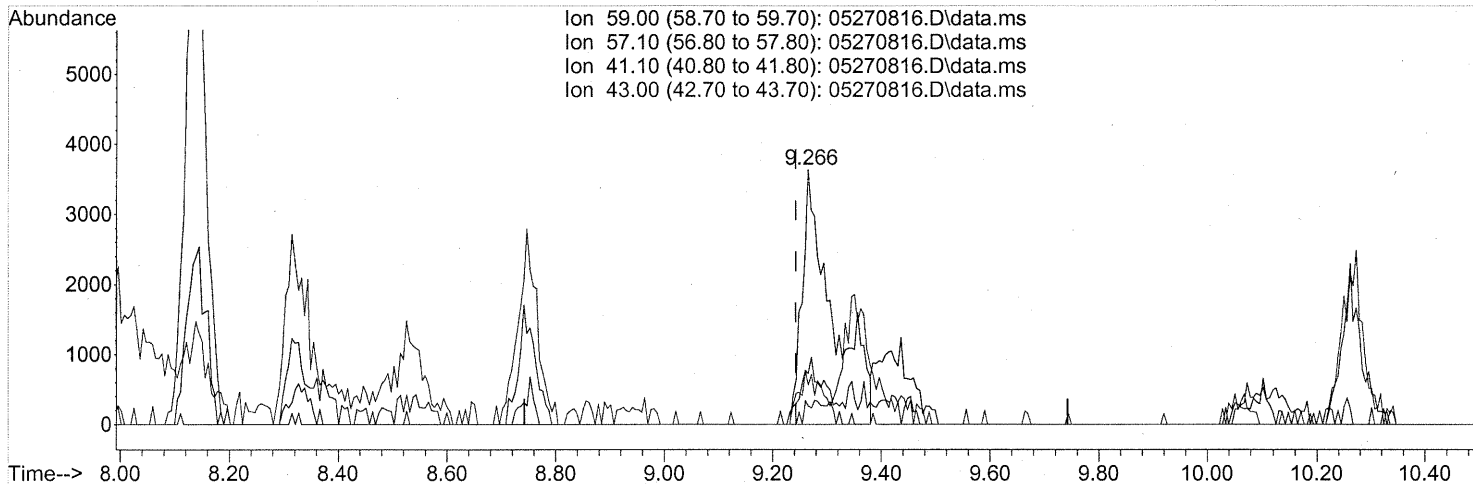
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	368.76#
0.00	0.00	0.00
0.00	0.00	0.00

10% shoulder
WA 5/31/08
P. 6/2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(18) tert-Butanol (T)
 9.266min (+0.023) 0.20ng
 response 14057

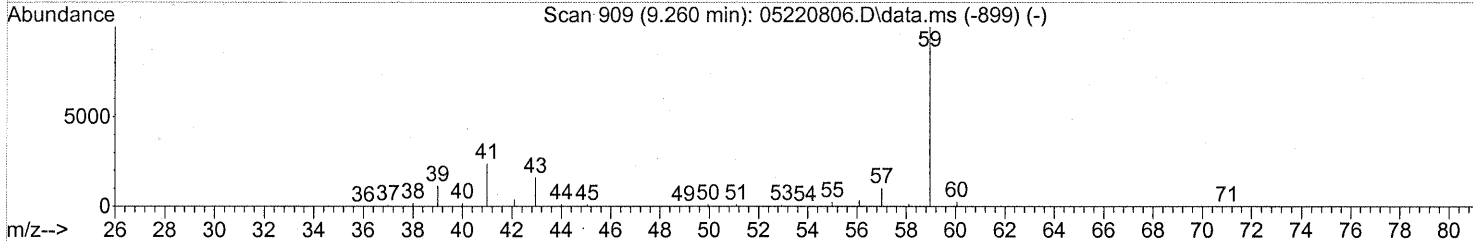
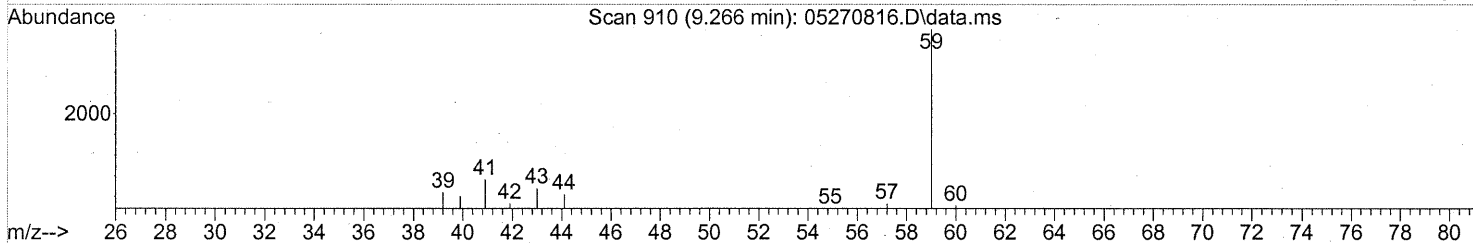
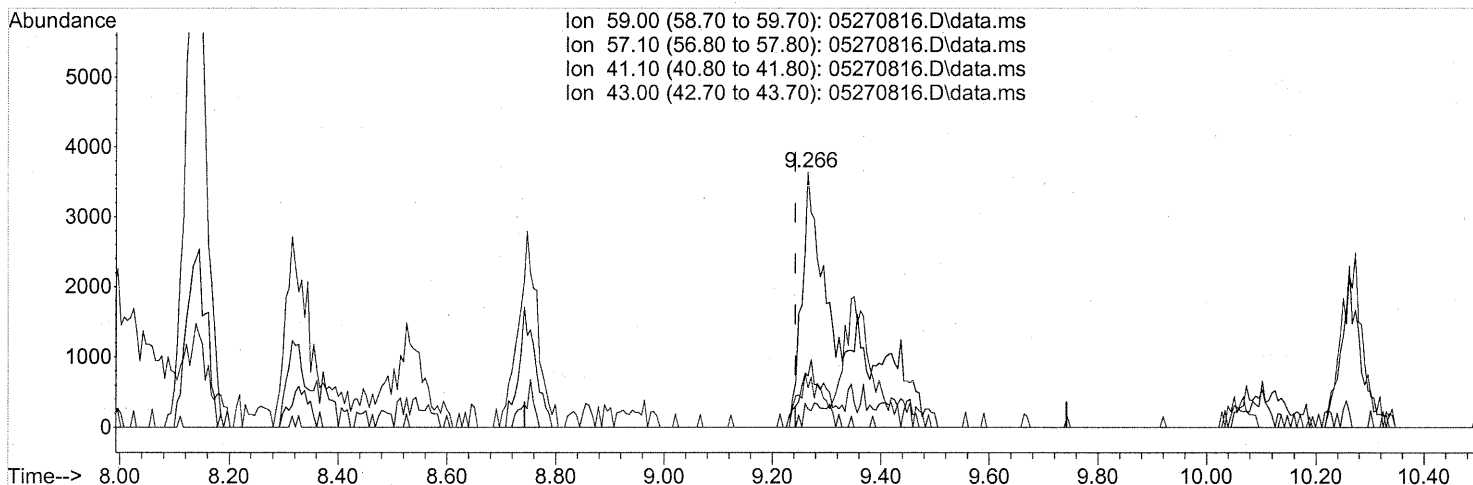
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	7.72
41.10	20.10	21.62
43.00	12.30	15.19

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)
 9.266min (+0.023) 0.27ng m
 response 18932

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	5.73
41.10	20.10	16.05
43.00	12.30	11.28

int. whole peaks

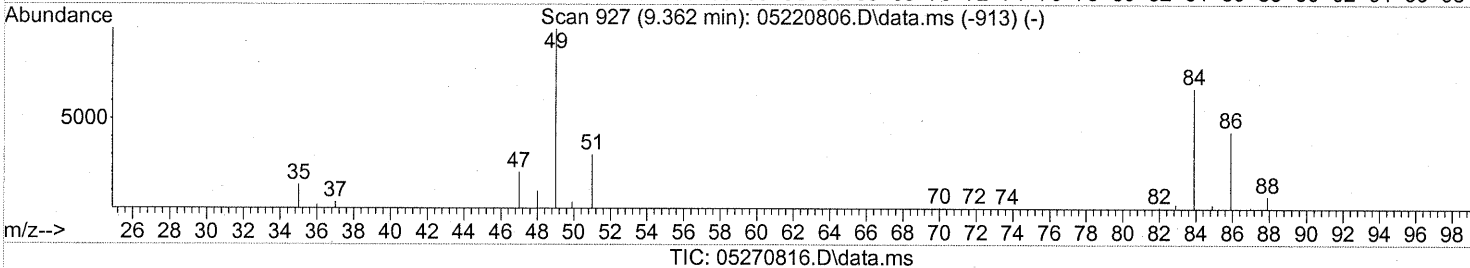
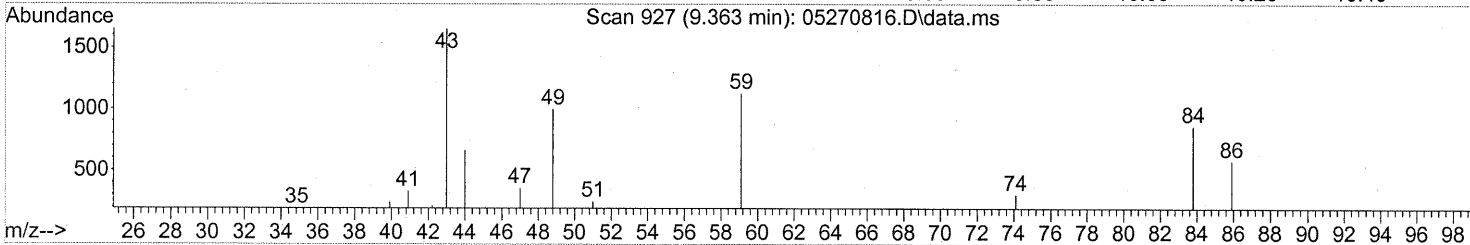
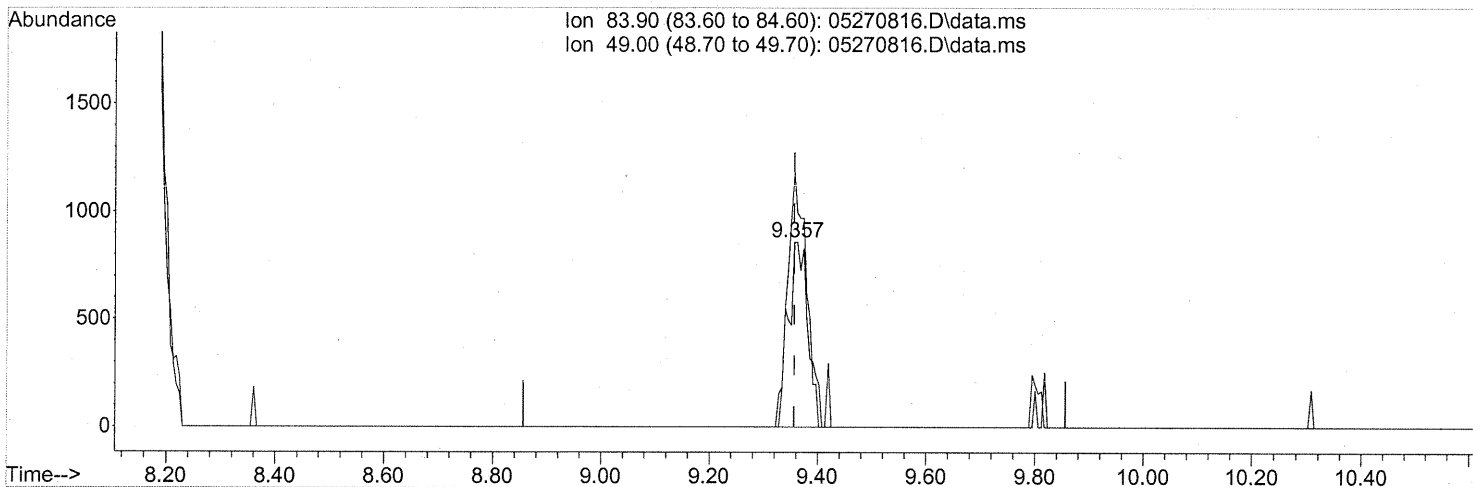
DA 5/31/08

P 20/2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 20:18
Operator : WA
Sample : P0801483-020 (1000ml)
Misc : ENSR SG63B-05 (-3.2, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (+0.000) 0.08ng

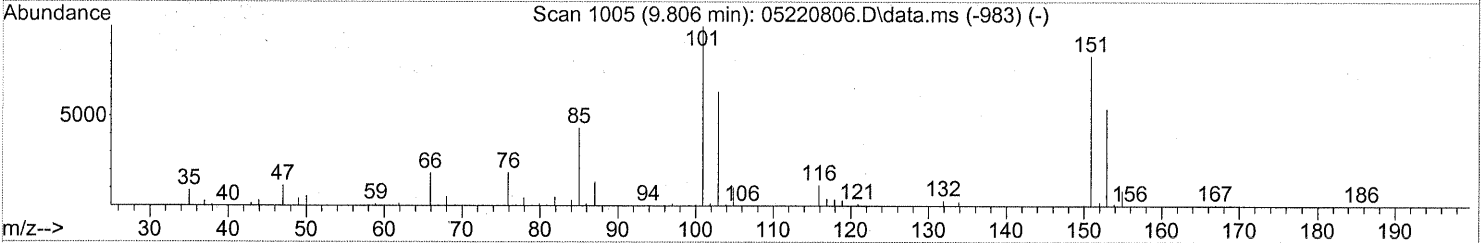
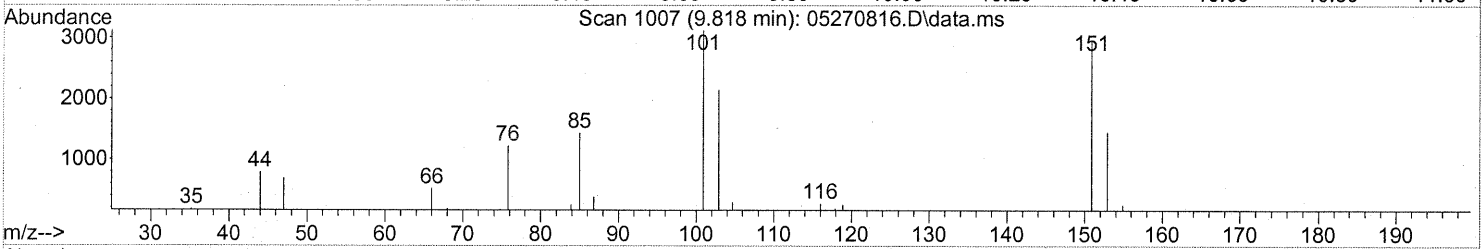
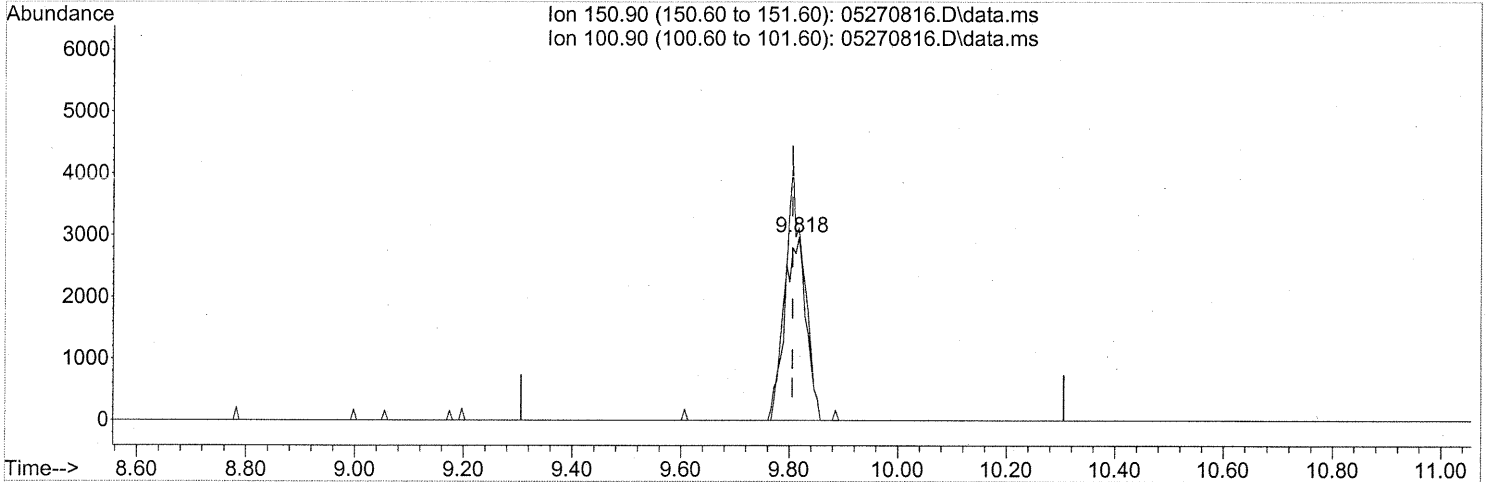
response 2274

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	120.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.818min (+0.011) 0.30ng

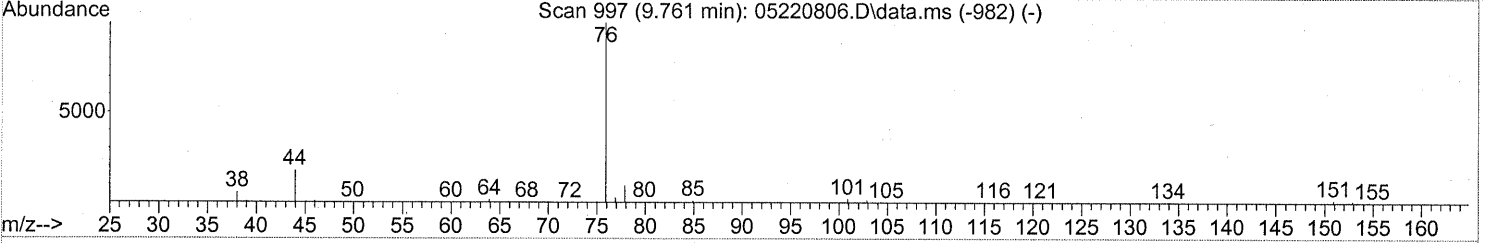
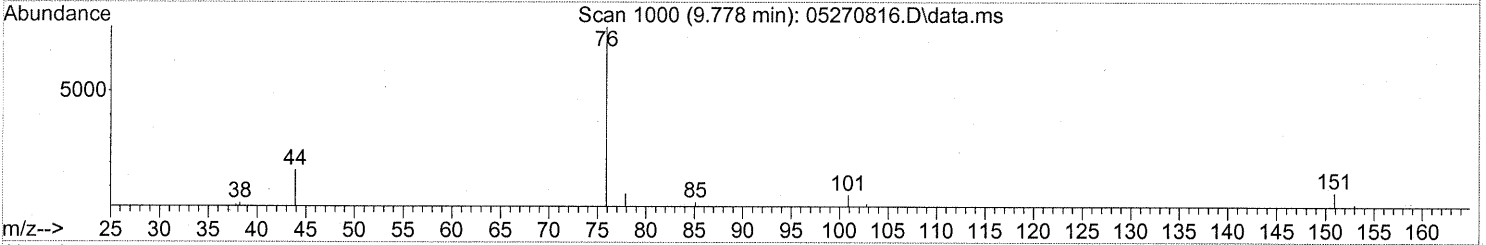
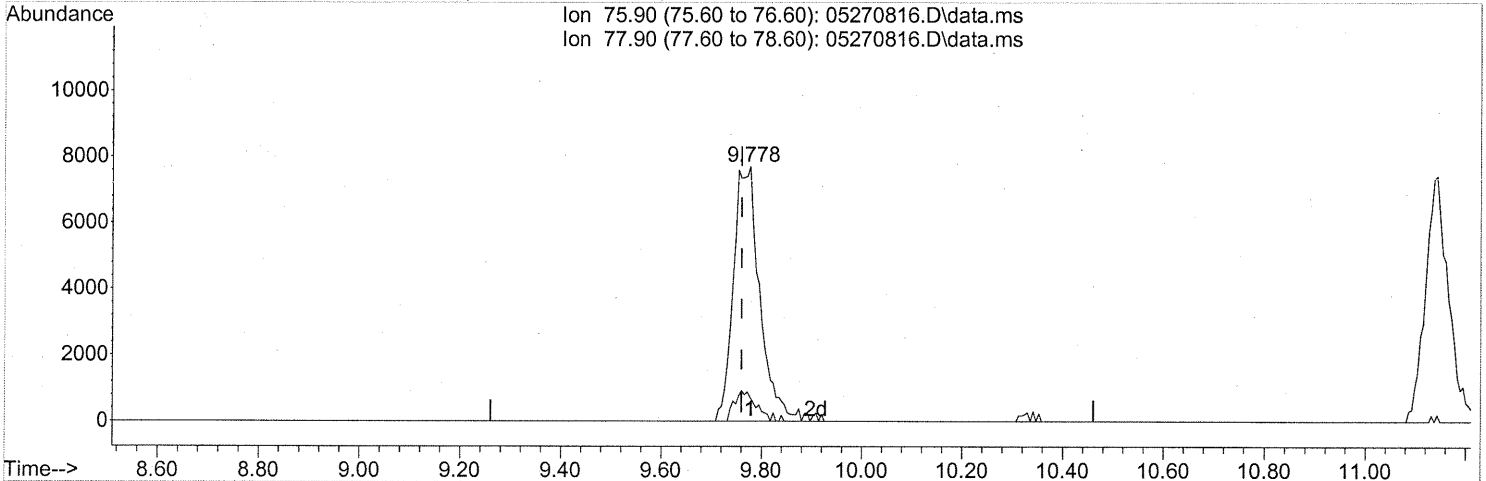
response 8141

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	121.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

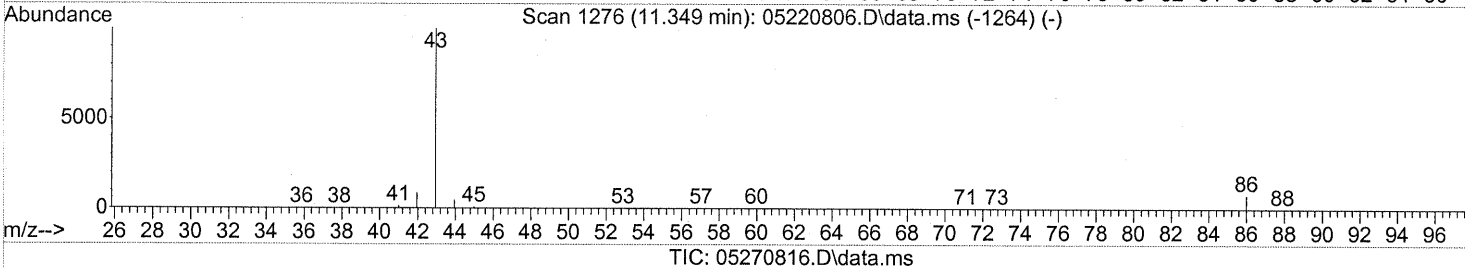
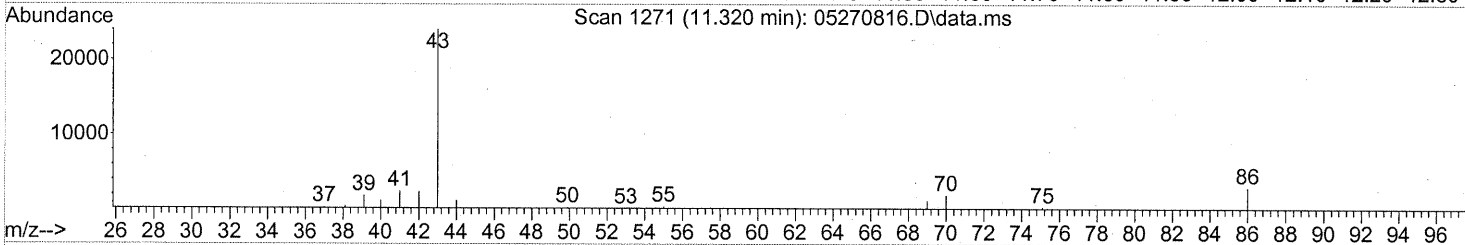
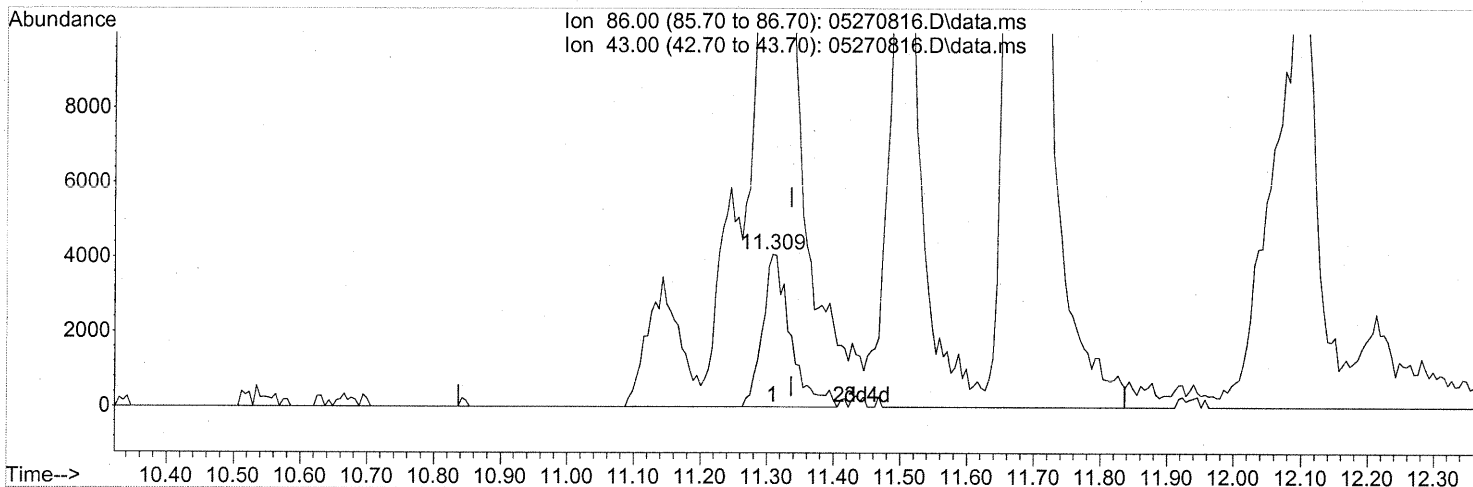
(22) Carbon Disulfide (T)
 9.778min (+0.017) 0.25ng
 response 27701

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



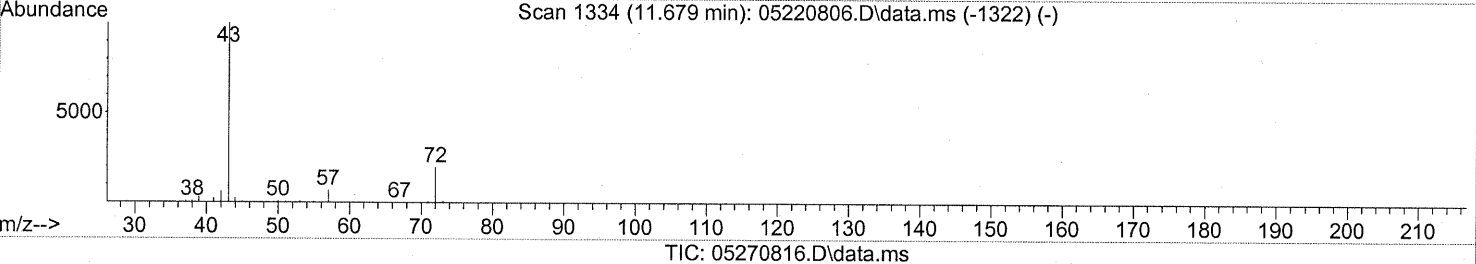
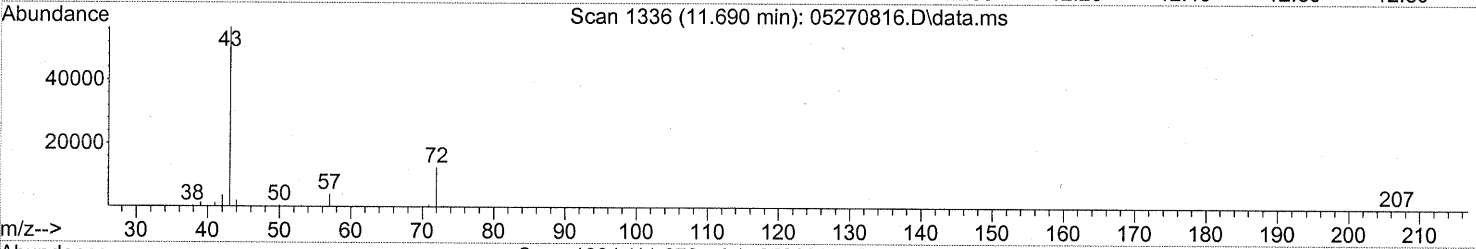
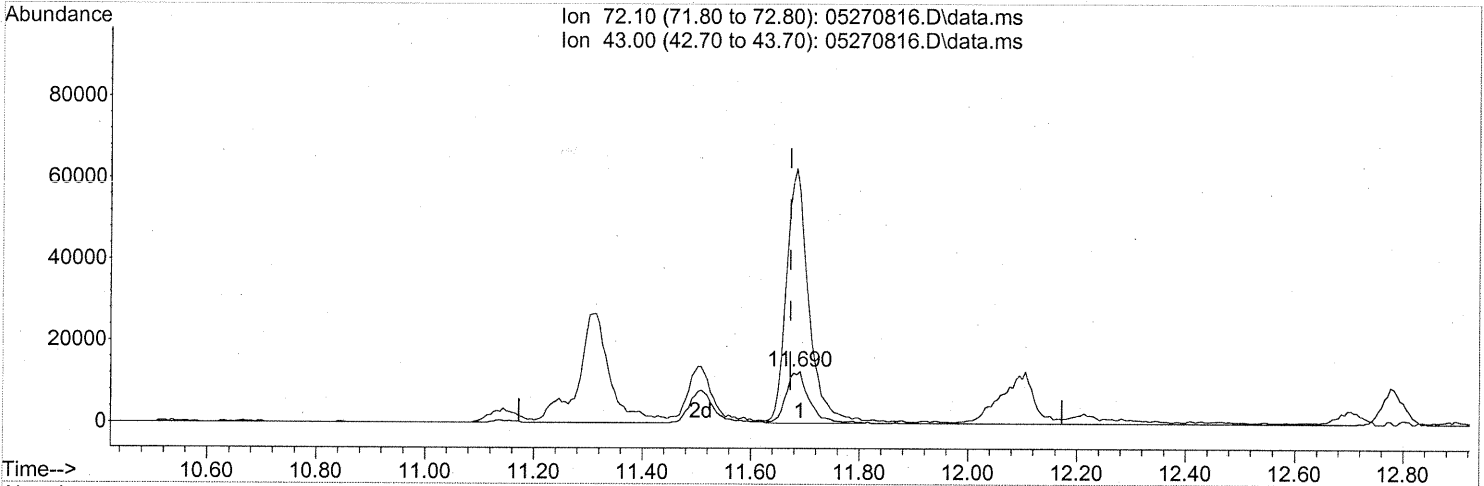
(26) Vinyl Acetate (T)
 11.309min (-0.028) 2.50ng
 response 11828

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	774.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 20:18
Operator : WA
Sample : P0801483-020 (1000ml)
Misc : ENSR SG63B-05 (-3.2, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

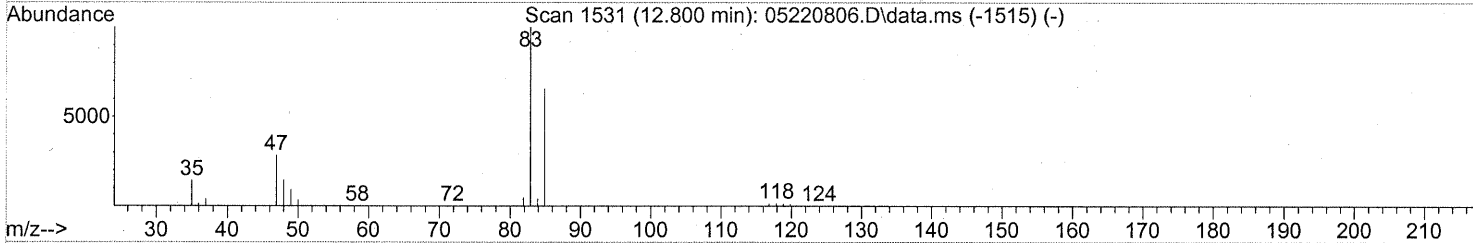
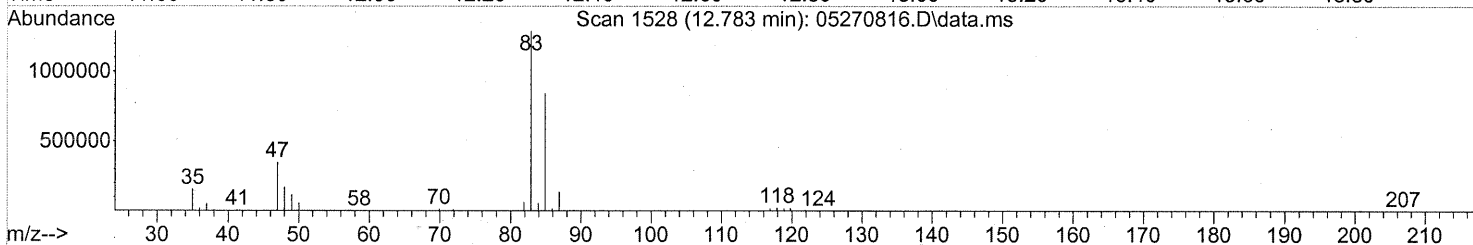
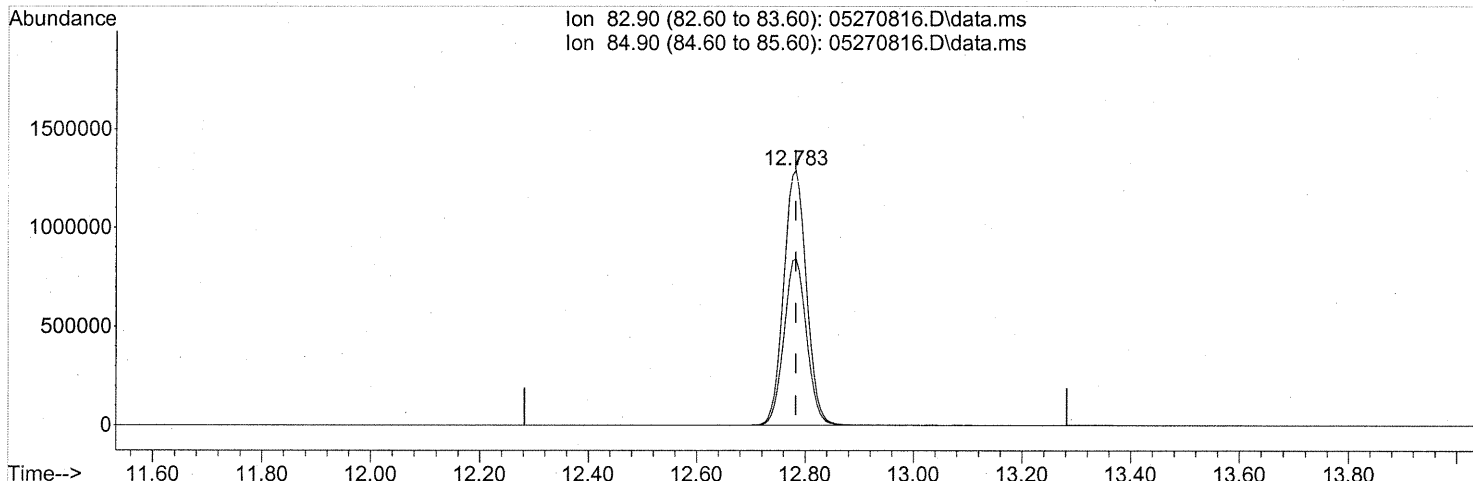


(27) 2-Butanone (T)
11.690min (+0.017) 1.97ng
response 36795
Ion Exp% Act%
72.10 100 100
43.00 506.80 475.76#
0.00 0.00 0.00
0.00 0.00 0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(32) Chloroform (T)

12.783min (+0.000) 86.29ng

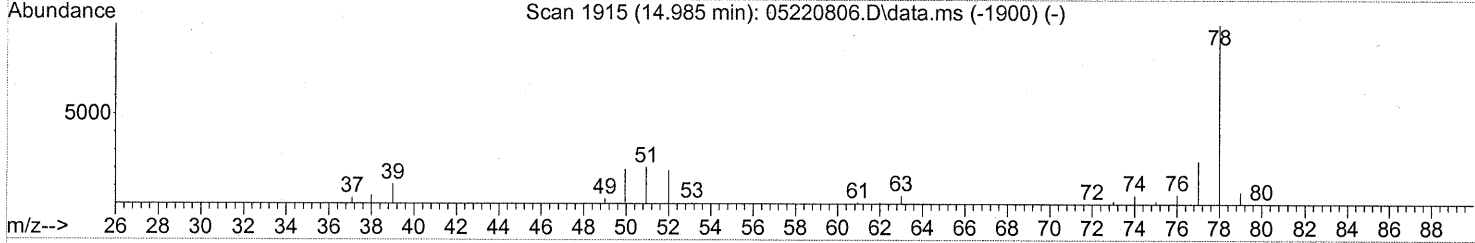
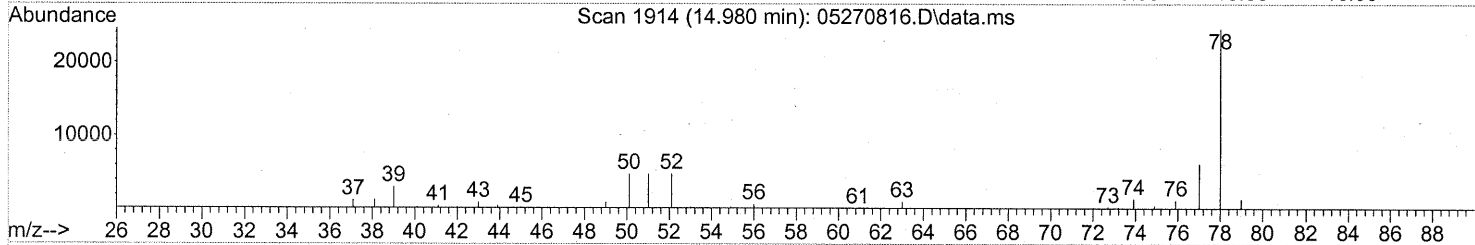
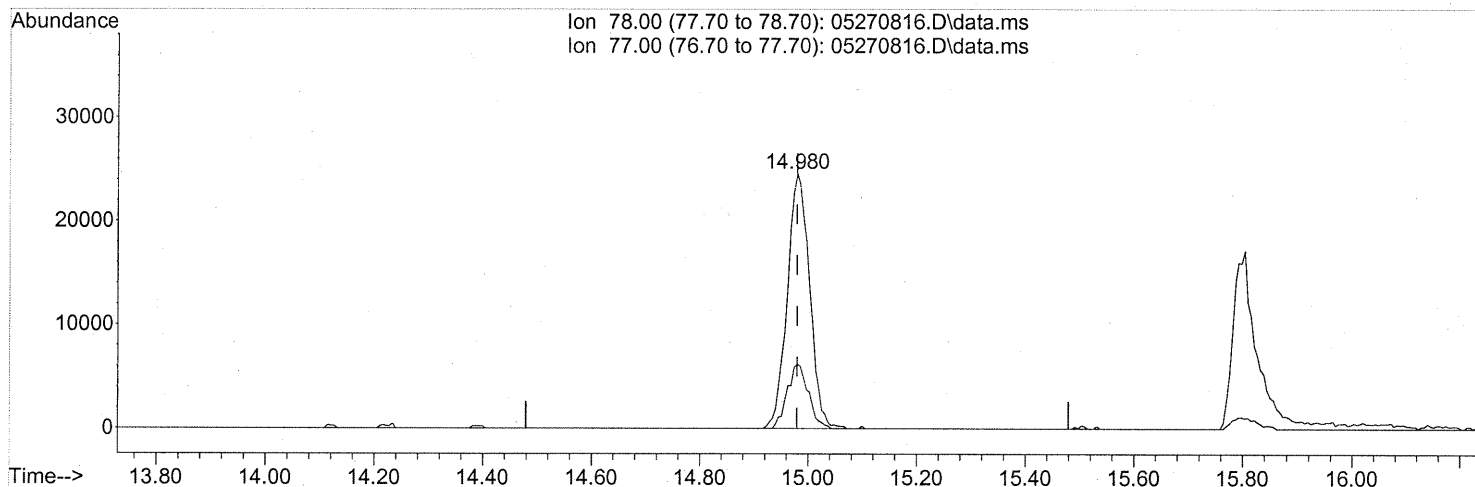
response 3748362

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 20:18
Operator : WA
Sample : P0801483-020 (1000ml)
Misc : ENSR SG63B-05 (-3.2, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(41) Benzene (T)

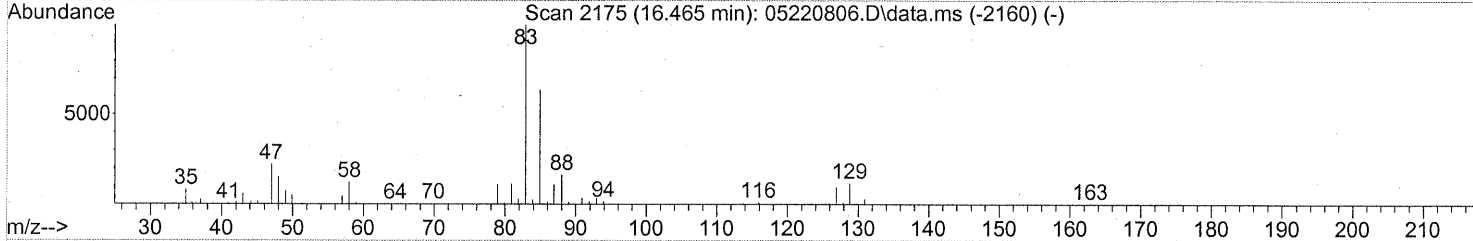
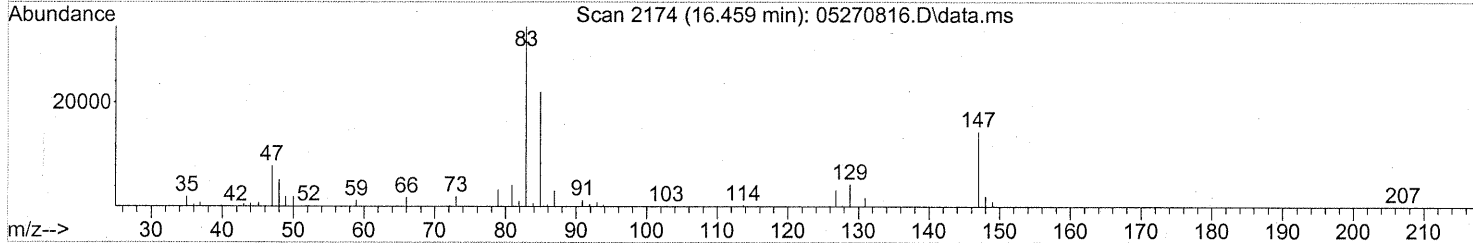
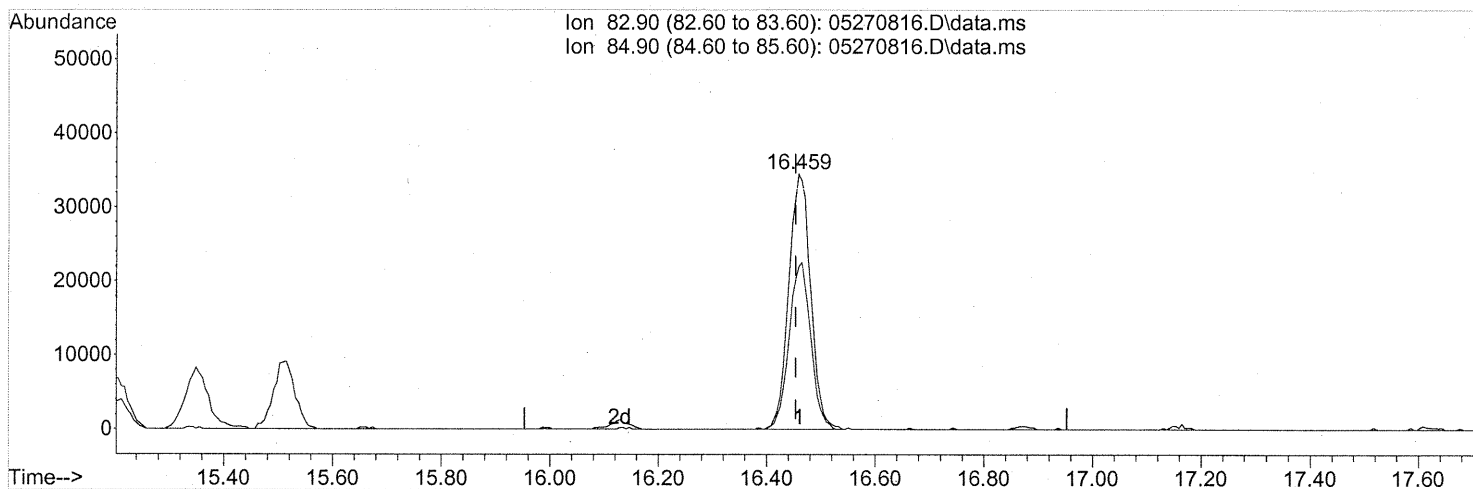
14.980min (+0.000) 0.68ng

response 69909

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.68
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 10:57:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(46) Bromodichloromethane (T)

16.459min (+0.006) 2.76ng

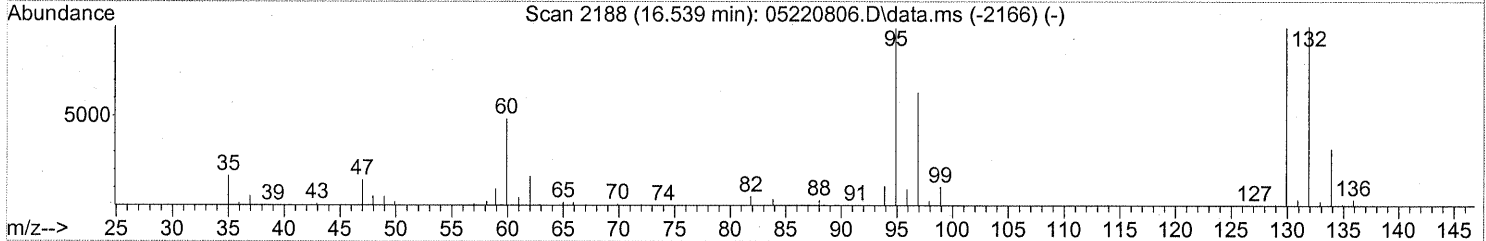
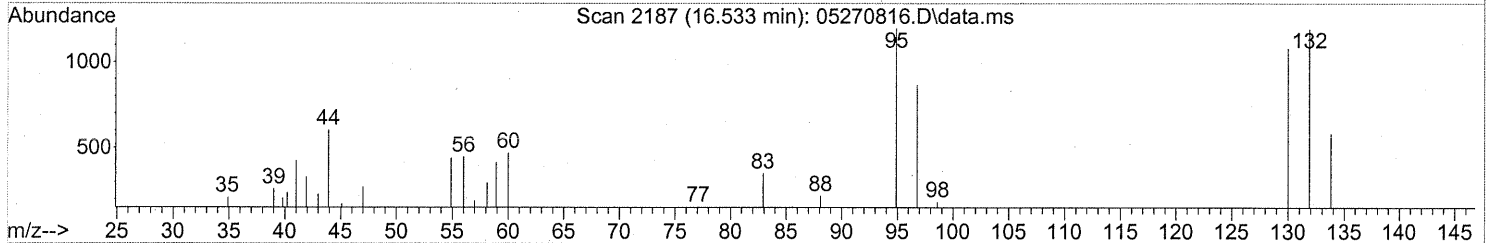
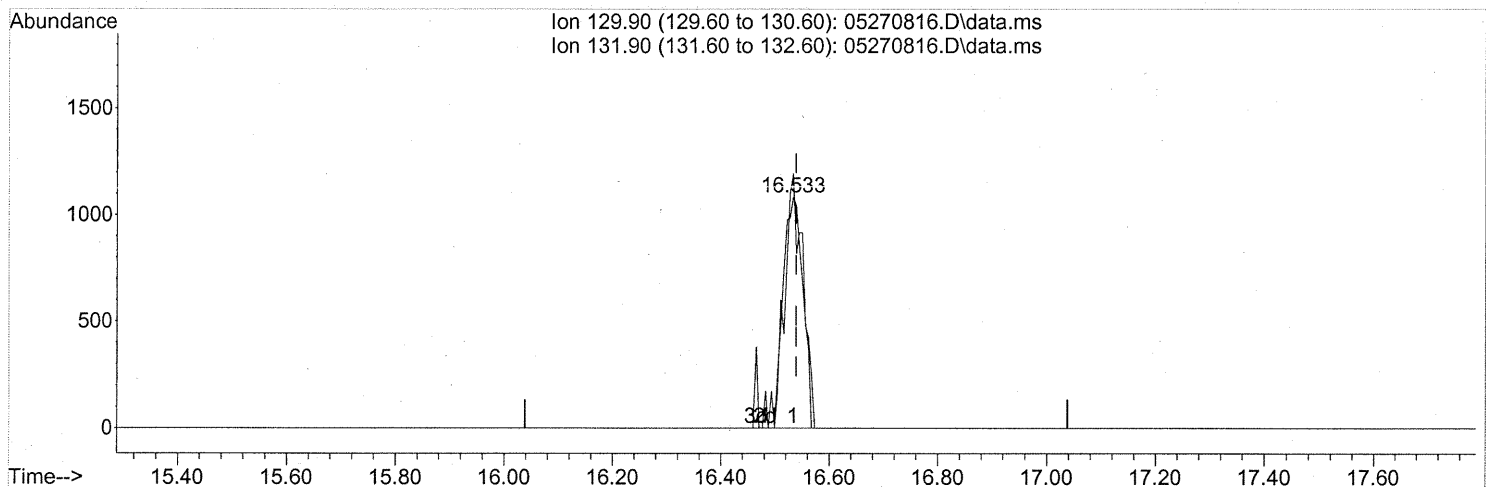
response 96625

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	64.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

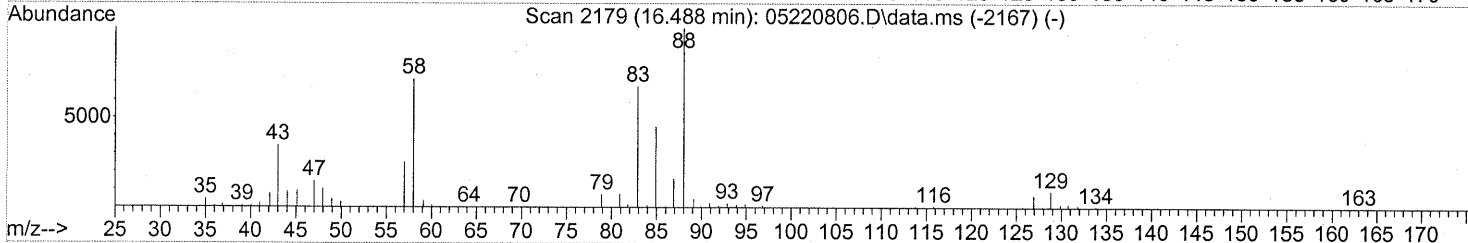
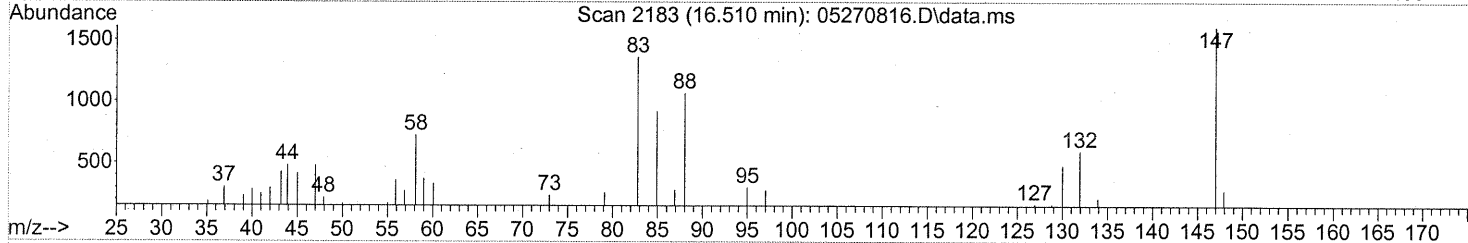
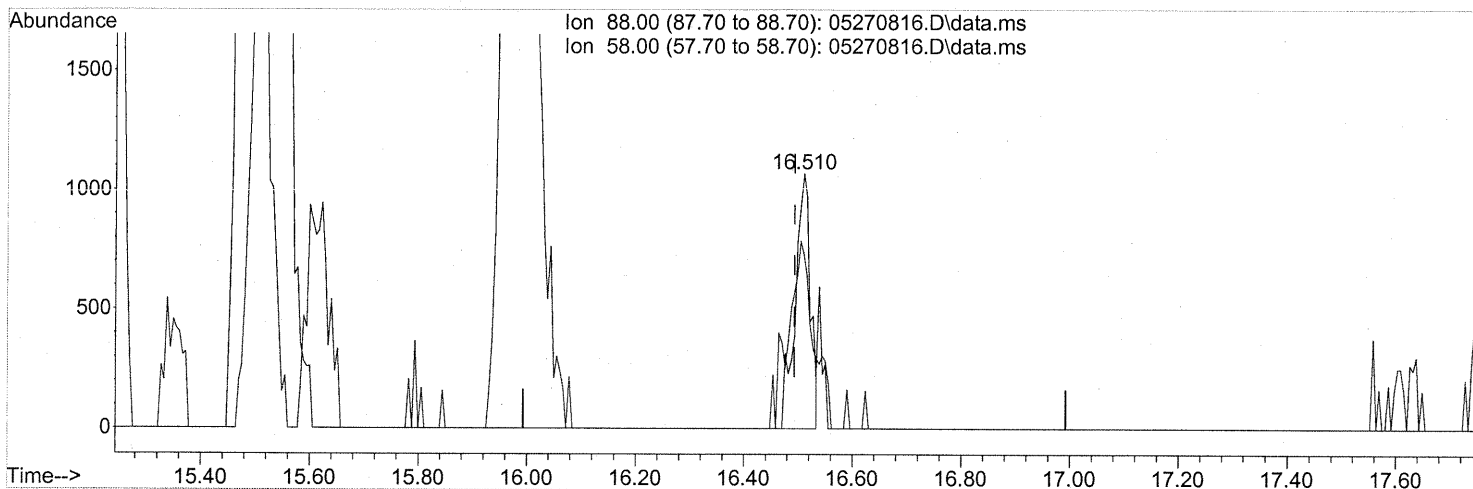
(47) Trichloroethene (T)
 16.533min (-0.006) 0.09ng
 response 2720

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	103.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)
 16.510min (+0.017) 0.11ng
 response 2085

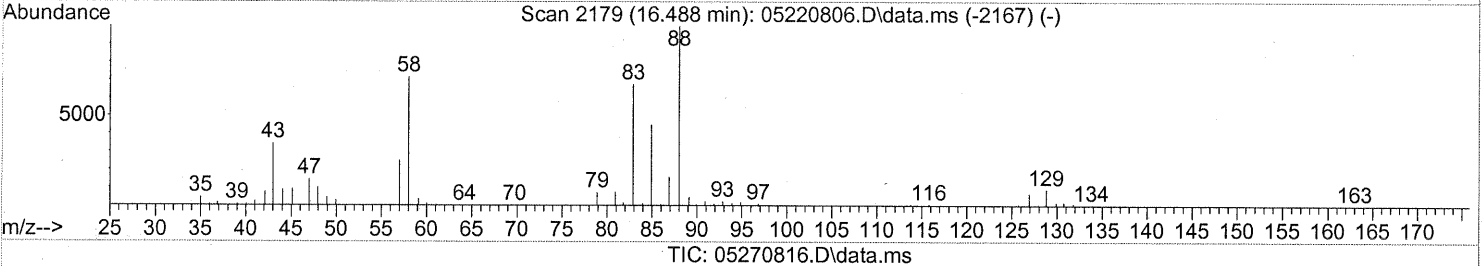
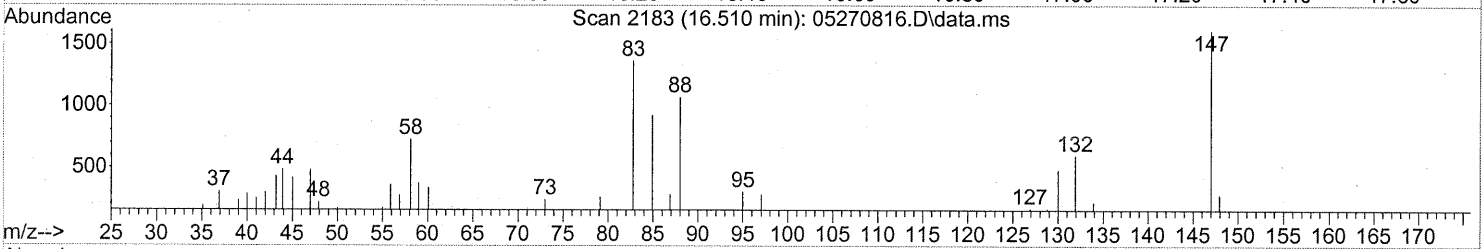
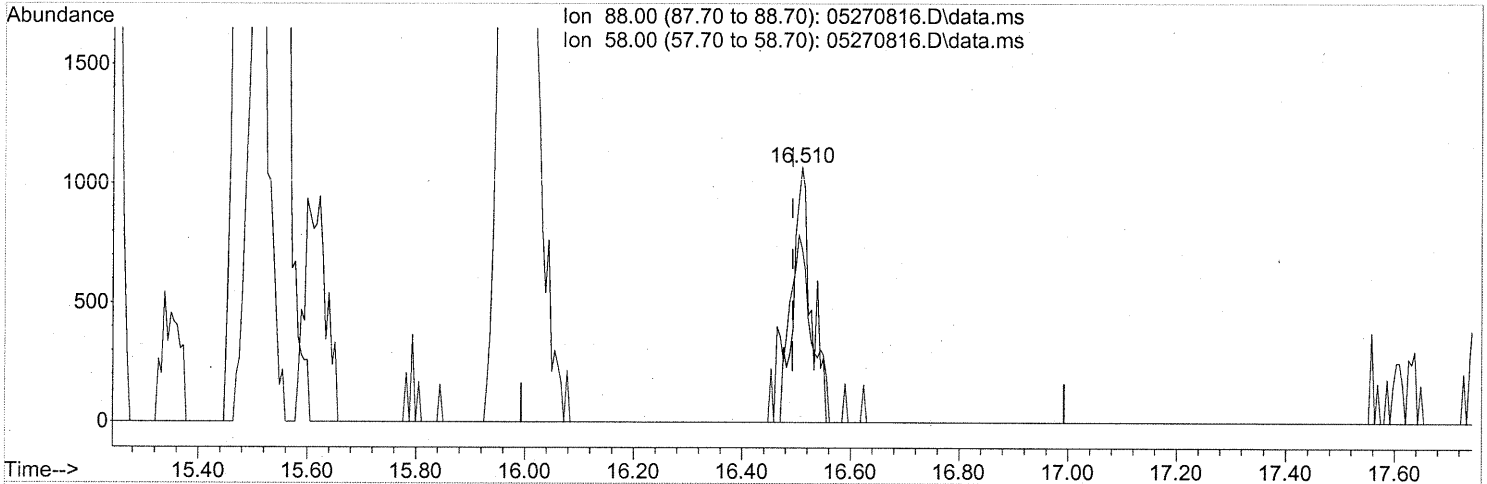
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	103.88
0.00	0.00	0.00
0.00	0.00	0.00

before

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)
 16.510min (+0.017) 0.13ng m

response 2457

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	88.16
0.00	0.00	0.00
0.00	0.00	0.00

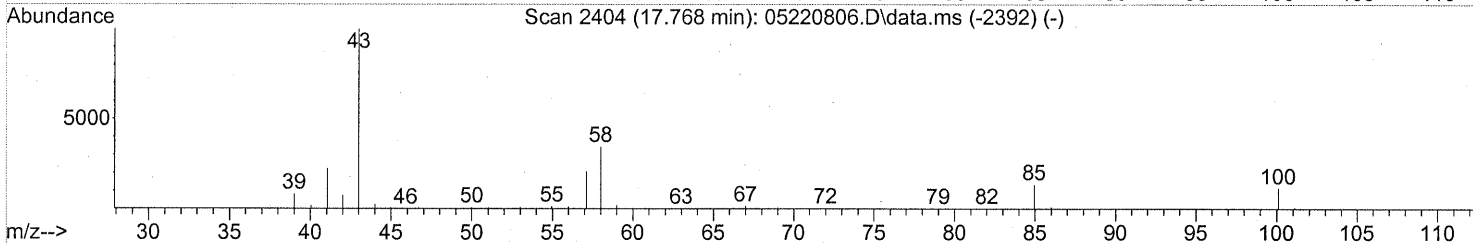
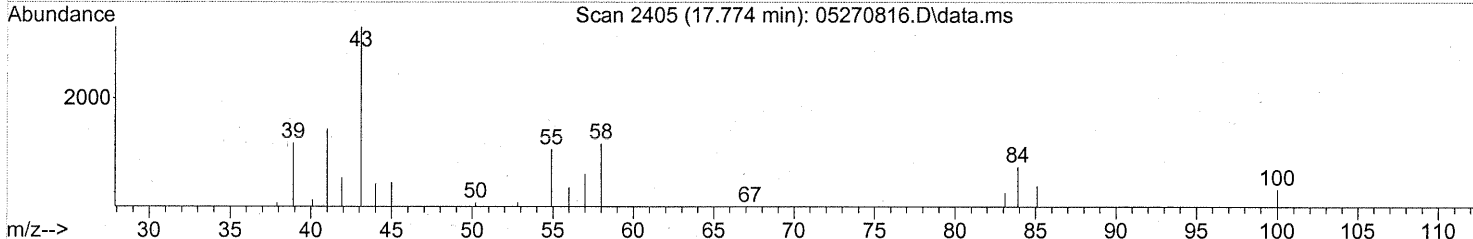
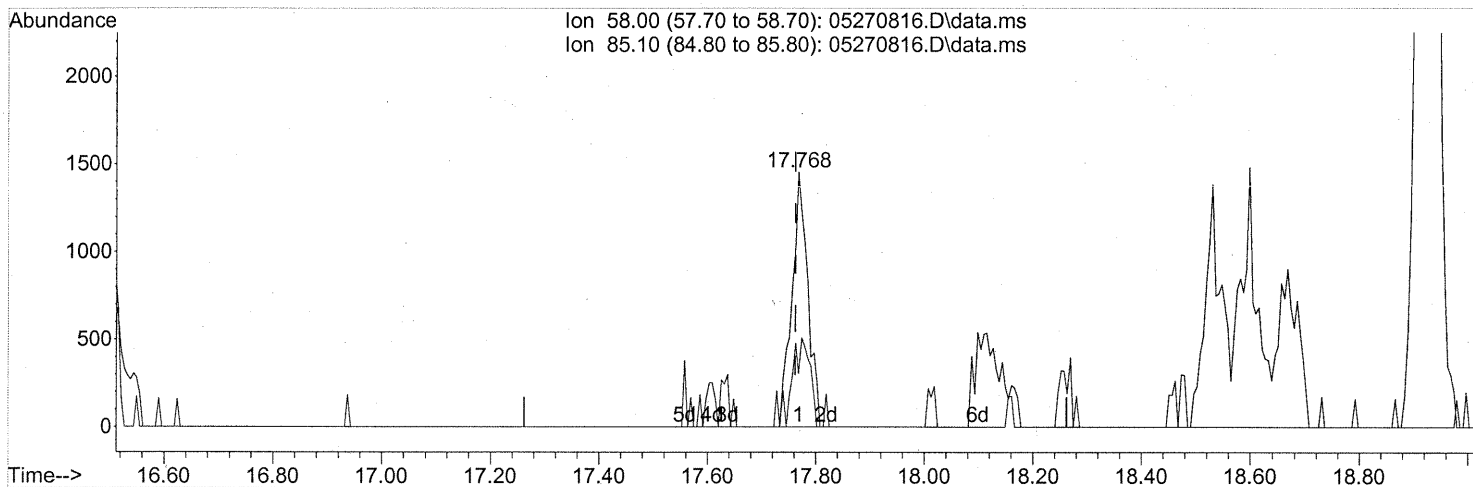
after substr.
WA 5/31/08

5/31/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(53) 4-Methyl-2-pentanone (T)

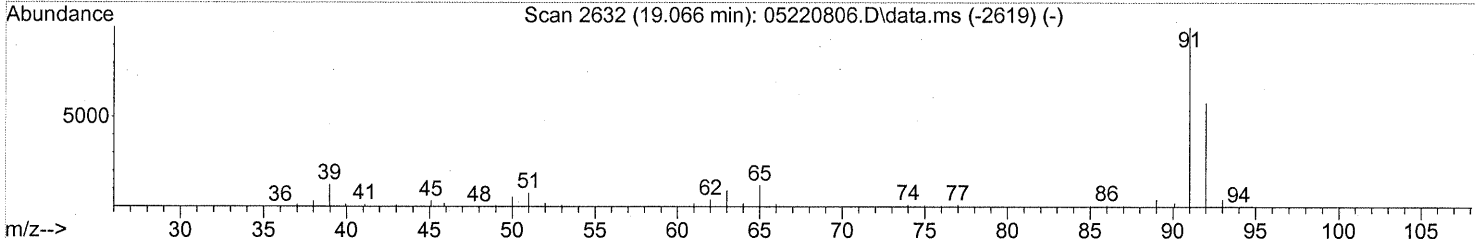
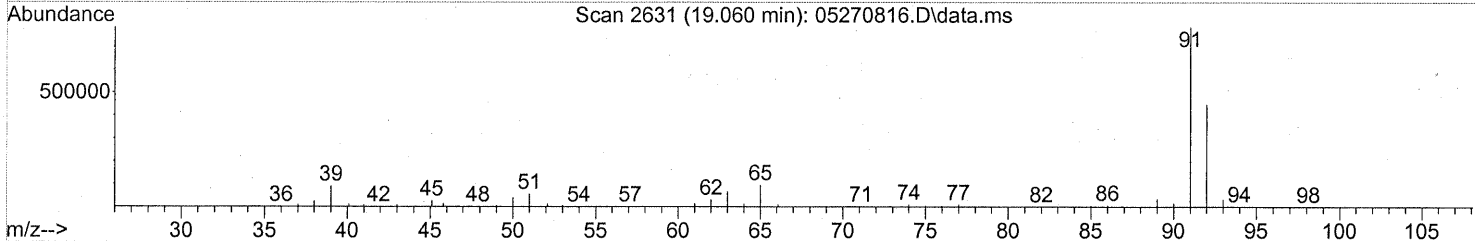
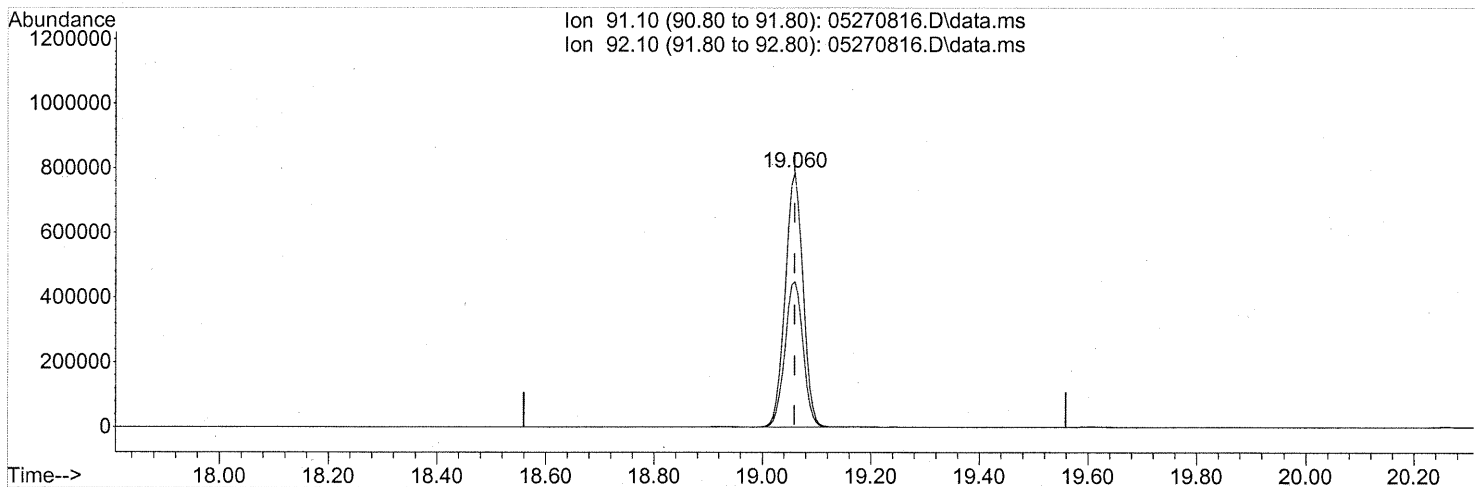
17.768min (+0.006) 0.11ng

response 3042

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	37.34
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(58) Toluene (T)

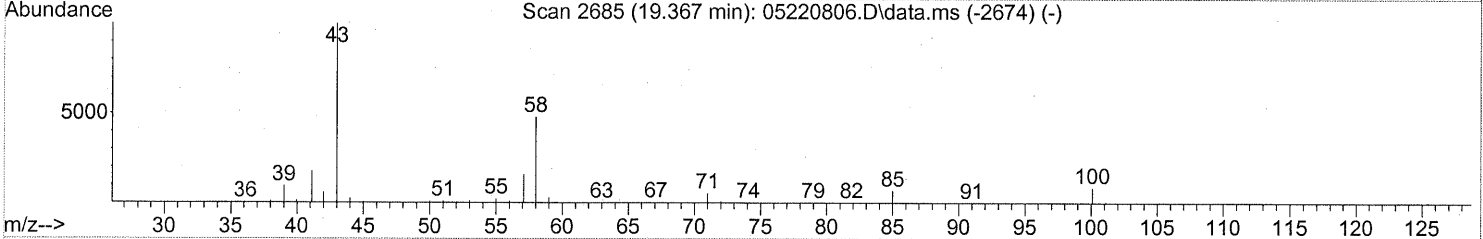
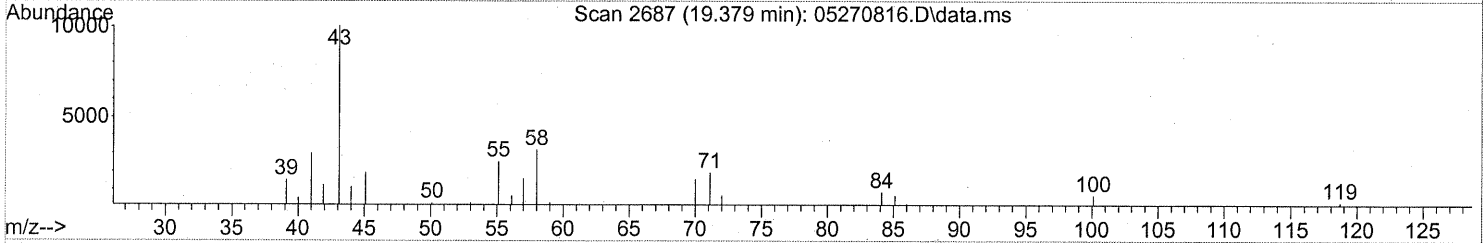
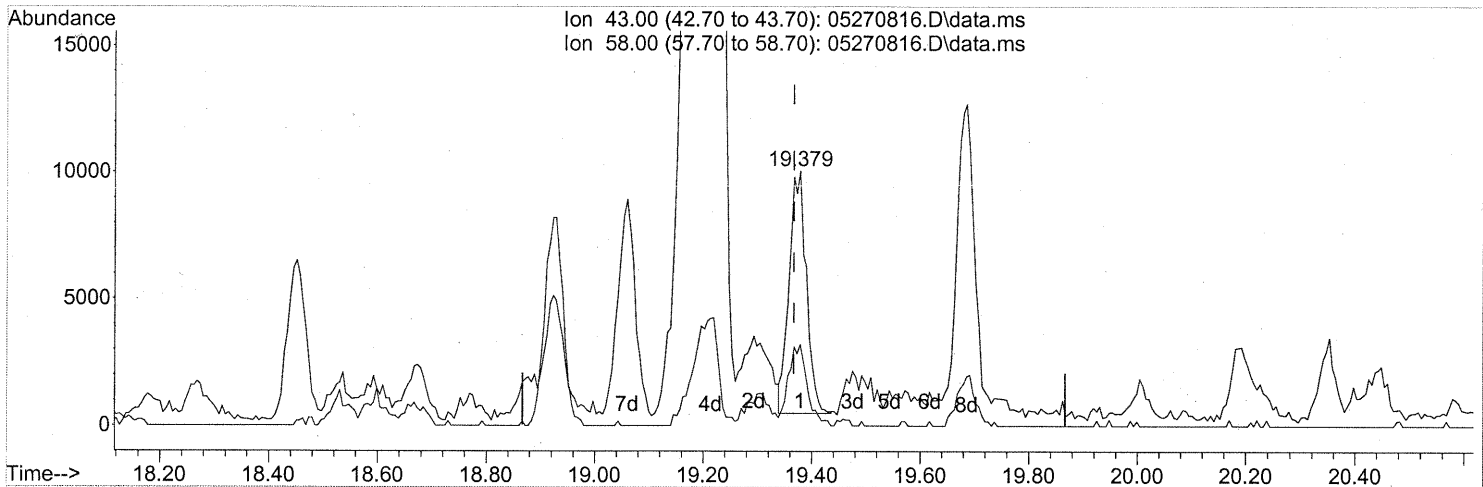
19.060min (+0.000) 15.00ng

response 1786608

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.97
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

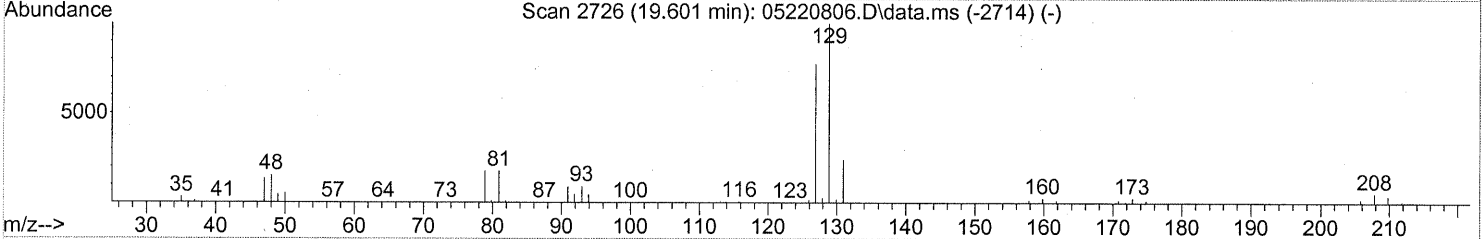
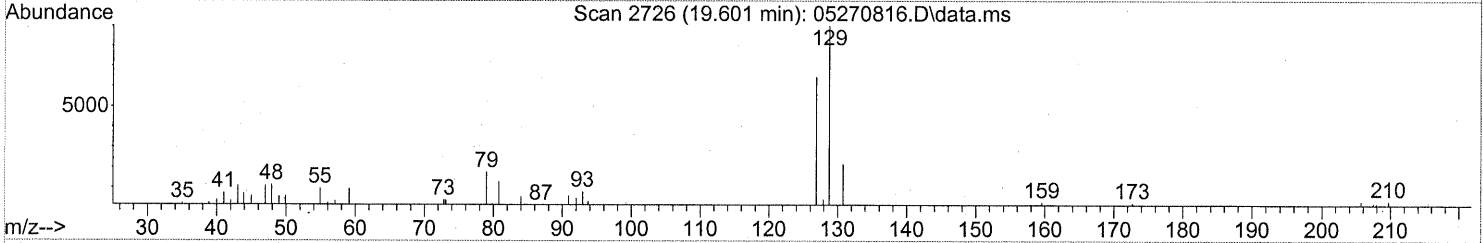
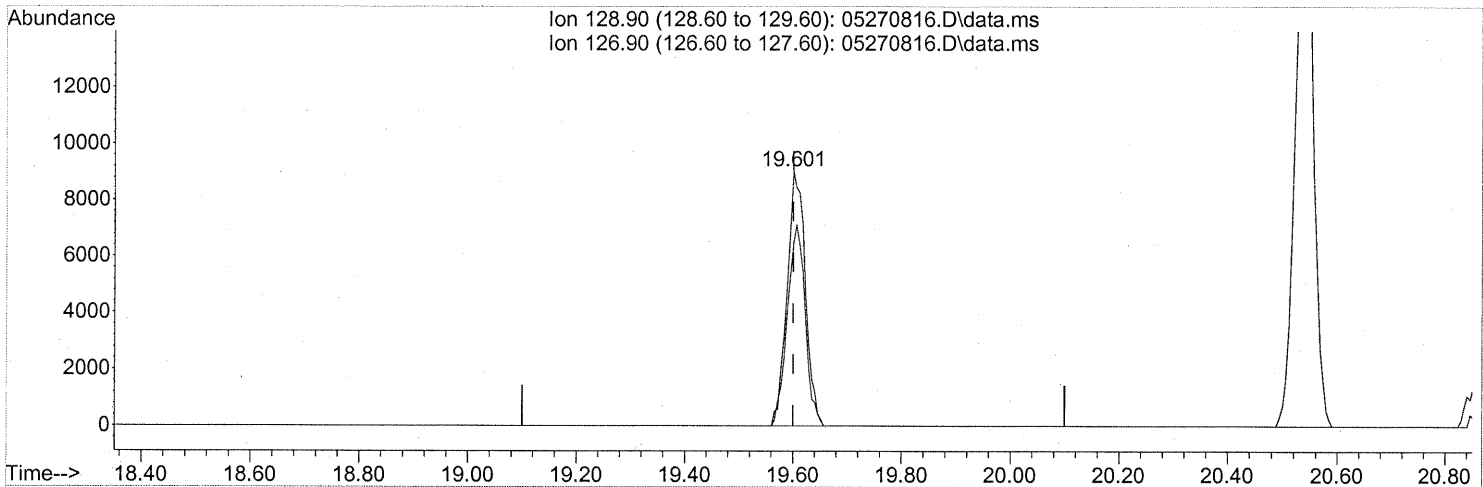
(59) 2-Hexanone (T)
 19.379min (+0.011) 0.26ng
 response 20975

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	36.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.601min (+0.000) 0.66ng

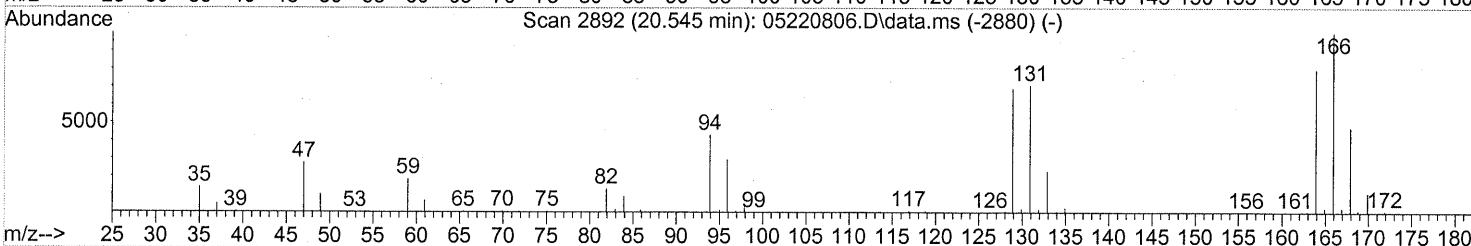
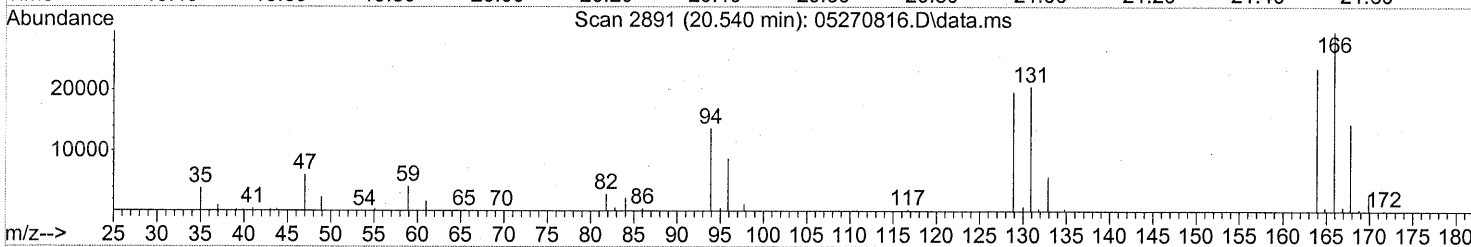
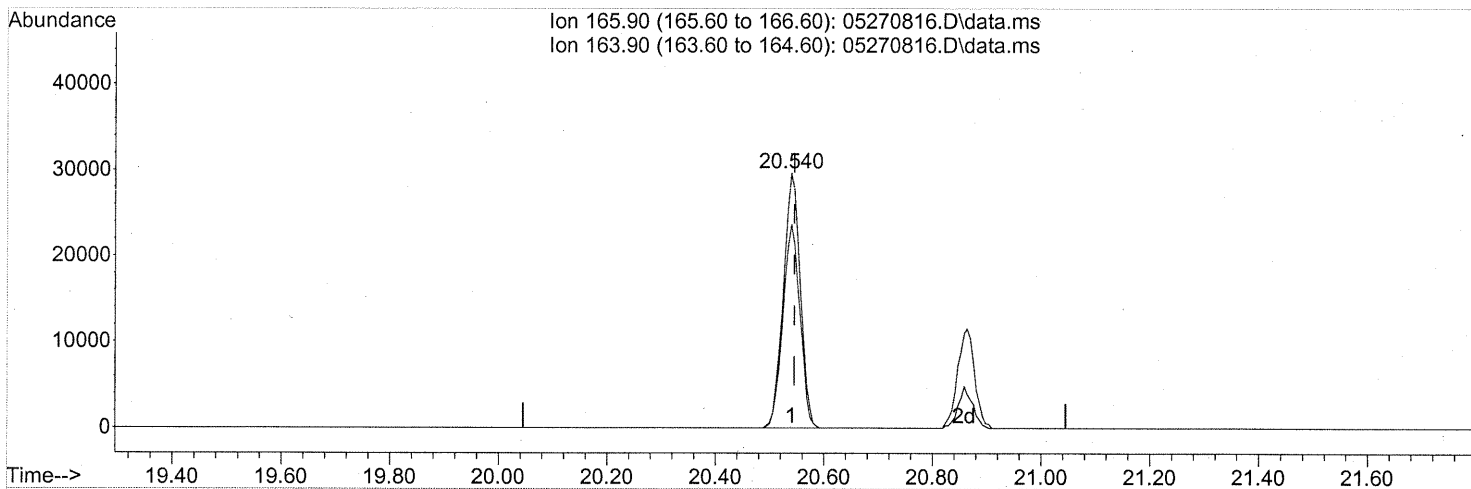
response 21113

Ion	Exp%	Act%
128.90	100	100
126.90	76.90	76.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 1.82ng

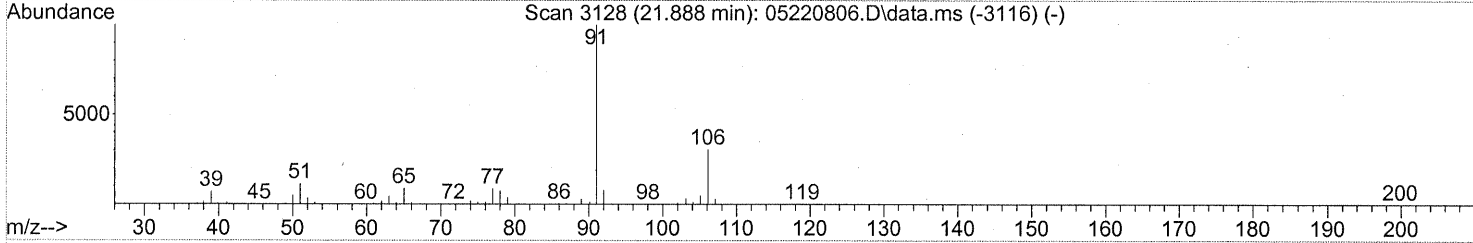
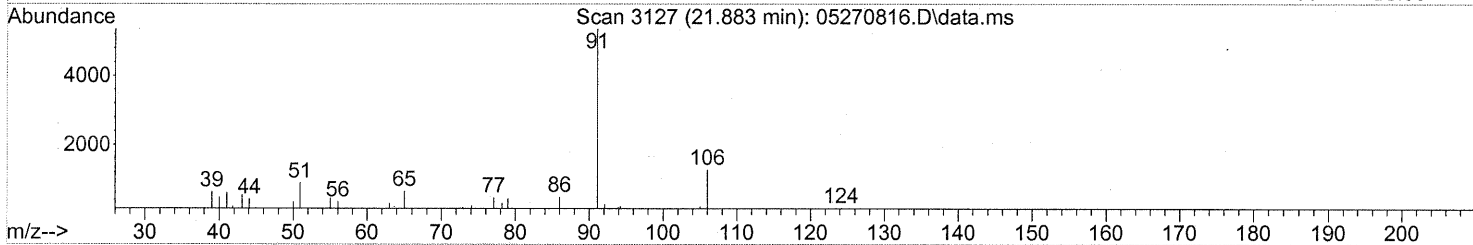
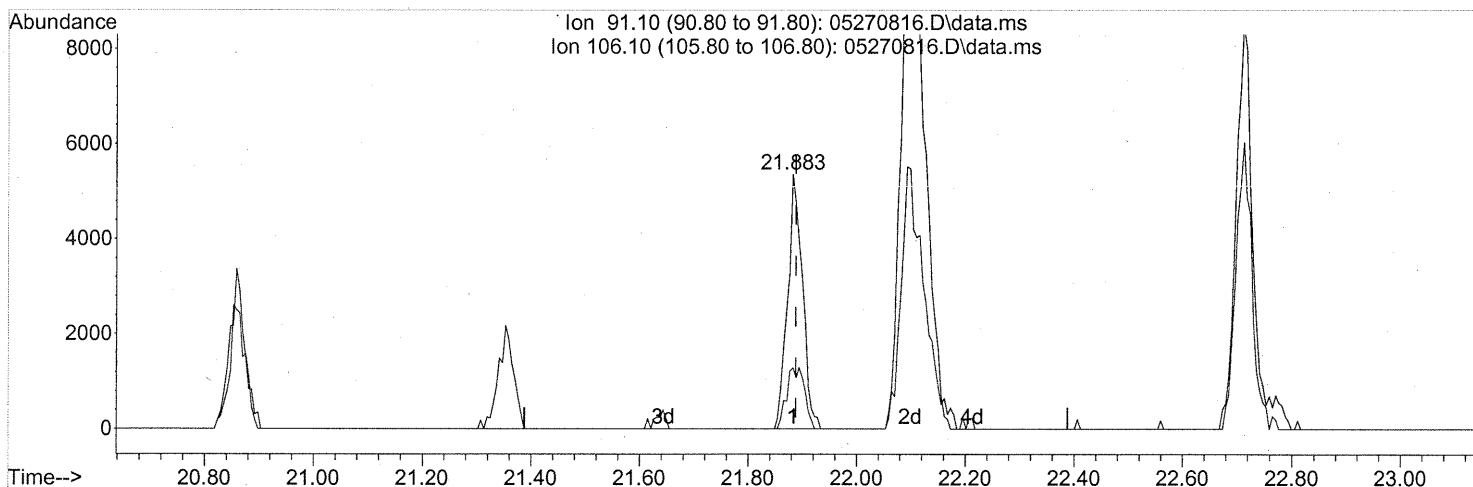
response 63971

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	80.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(66) Ethylbenzene (T)
 21.883min (-0.006) 0.07ng
 response 10185

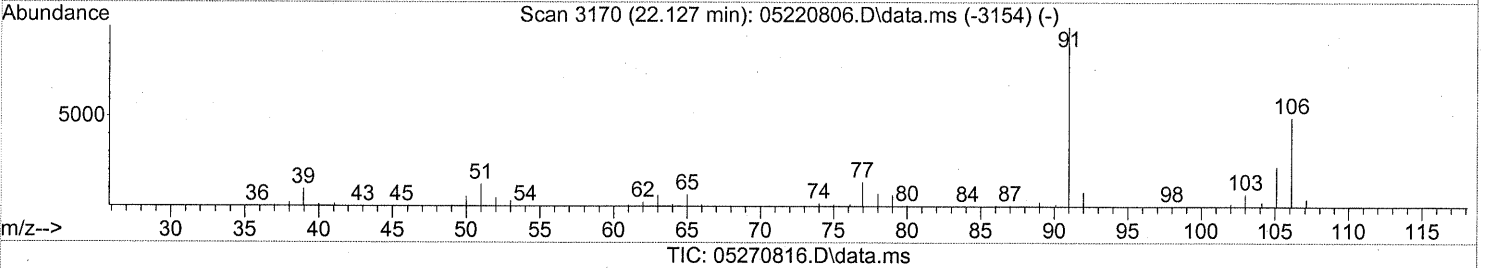
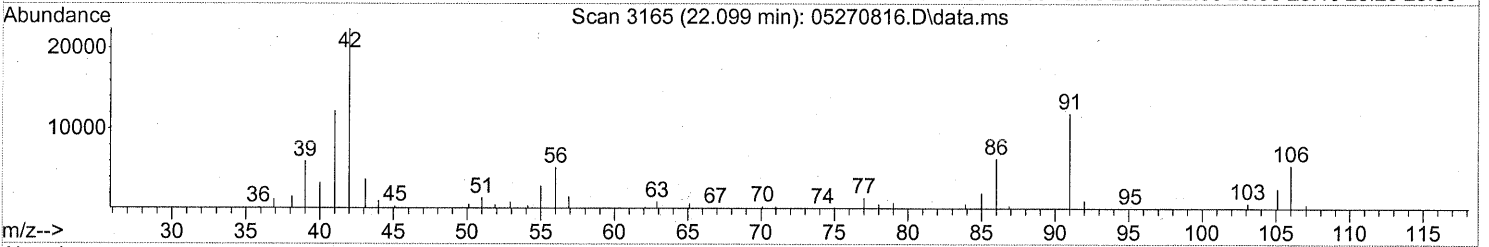
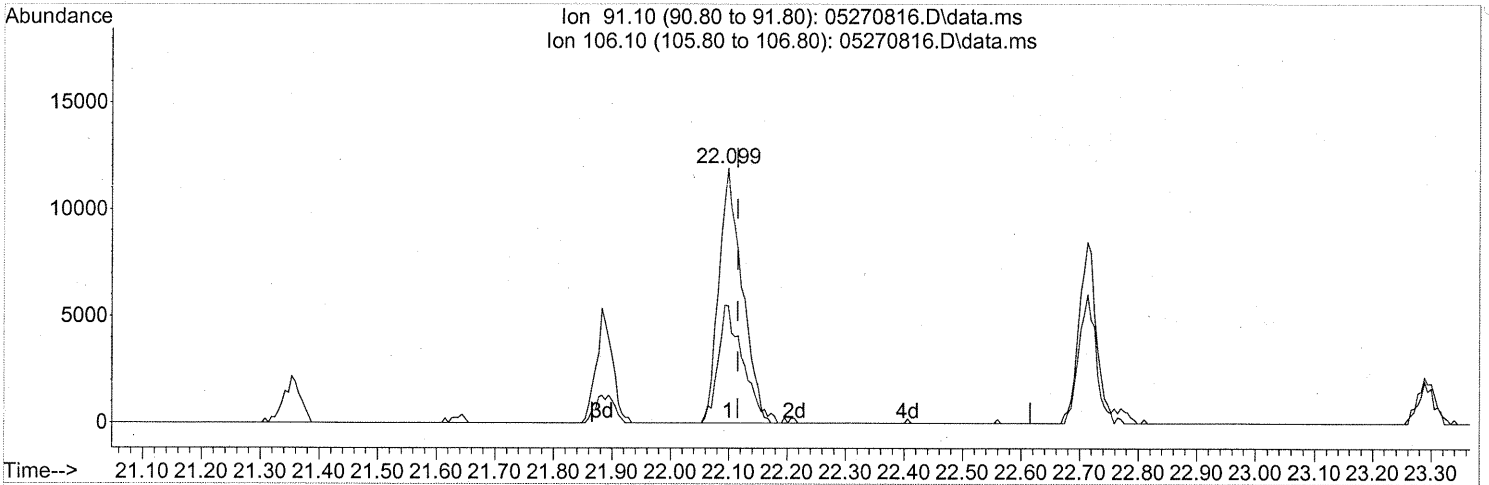
Ion	Exp%	Act%
91.10	100	100
106.10	34.10	28.86
0.00	0.00	0.00
0.00	0.00	0.00

861

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



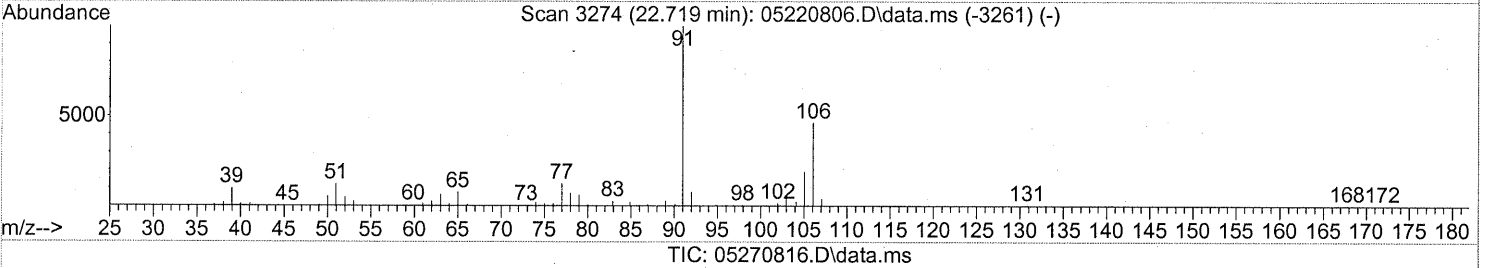
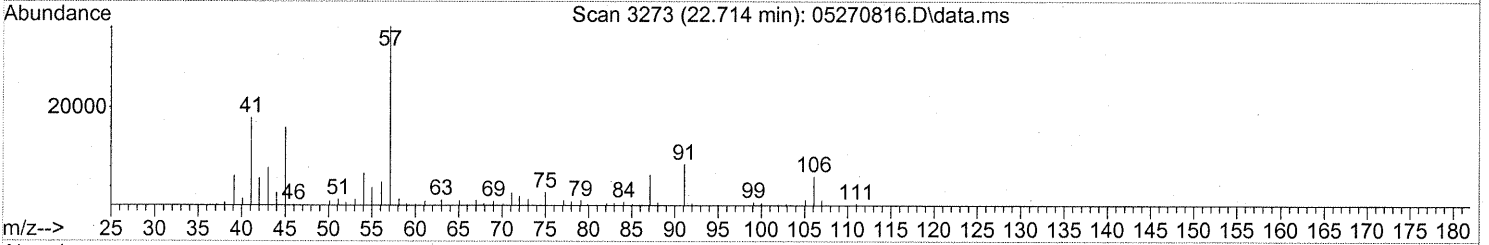
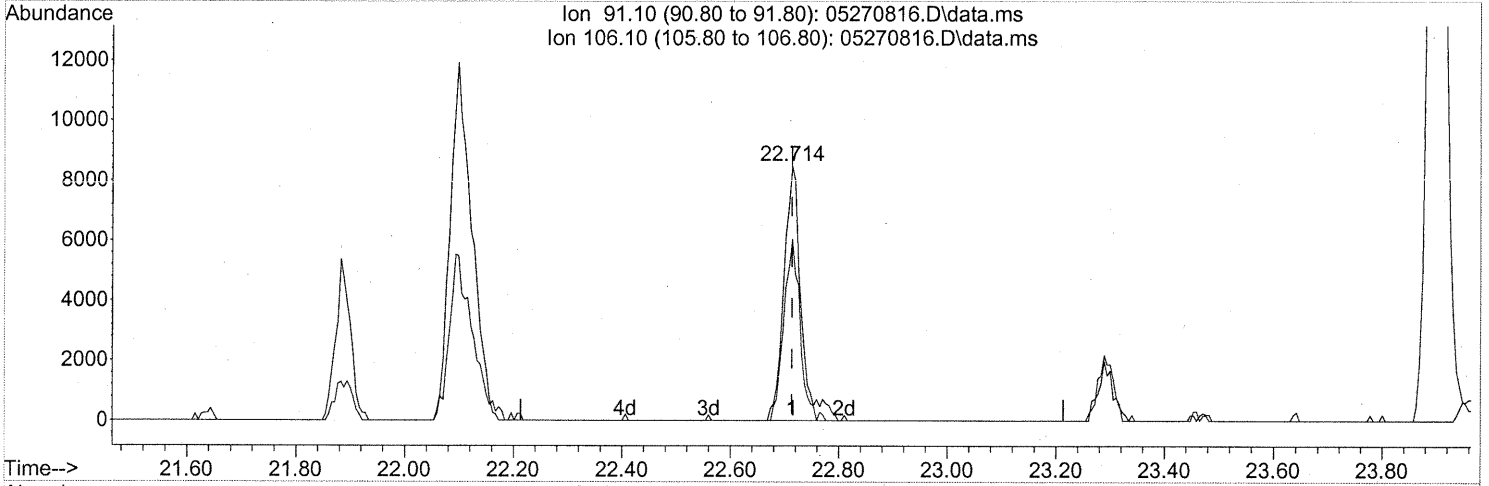
(67) m- & p-Xylene (T)
 22.099min (-0.017) 0.36ng
 response 33064

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	49.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (+0.000) 0.19ng

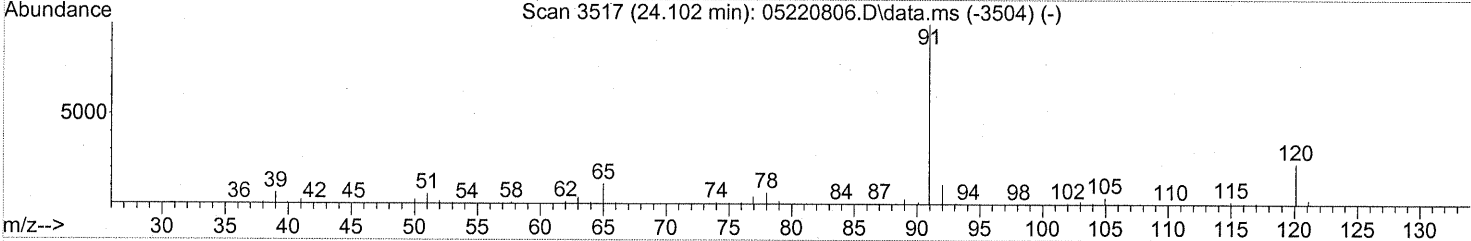
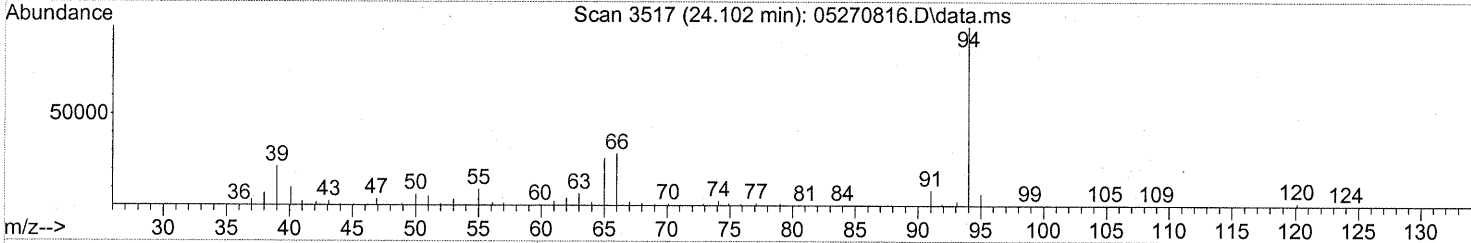
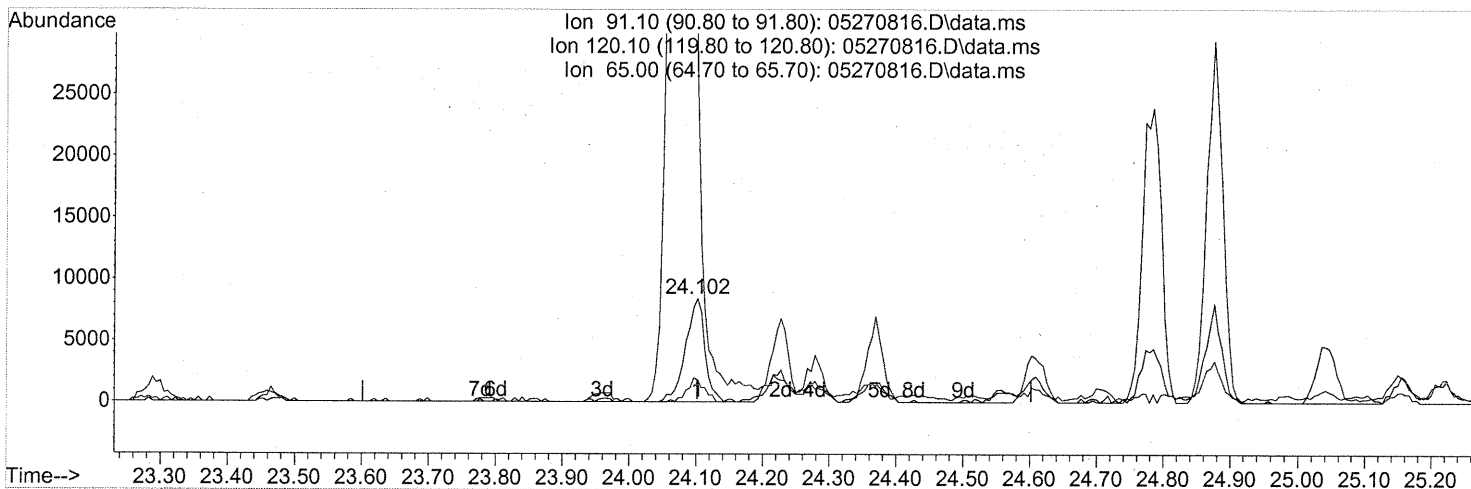
response 18672

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	66.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

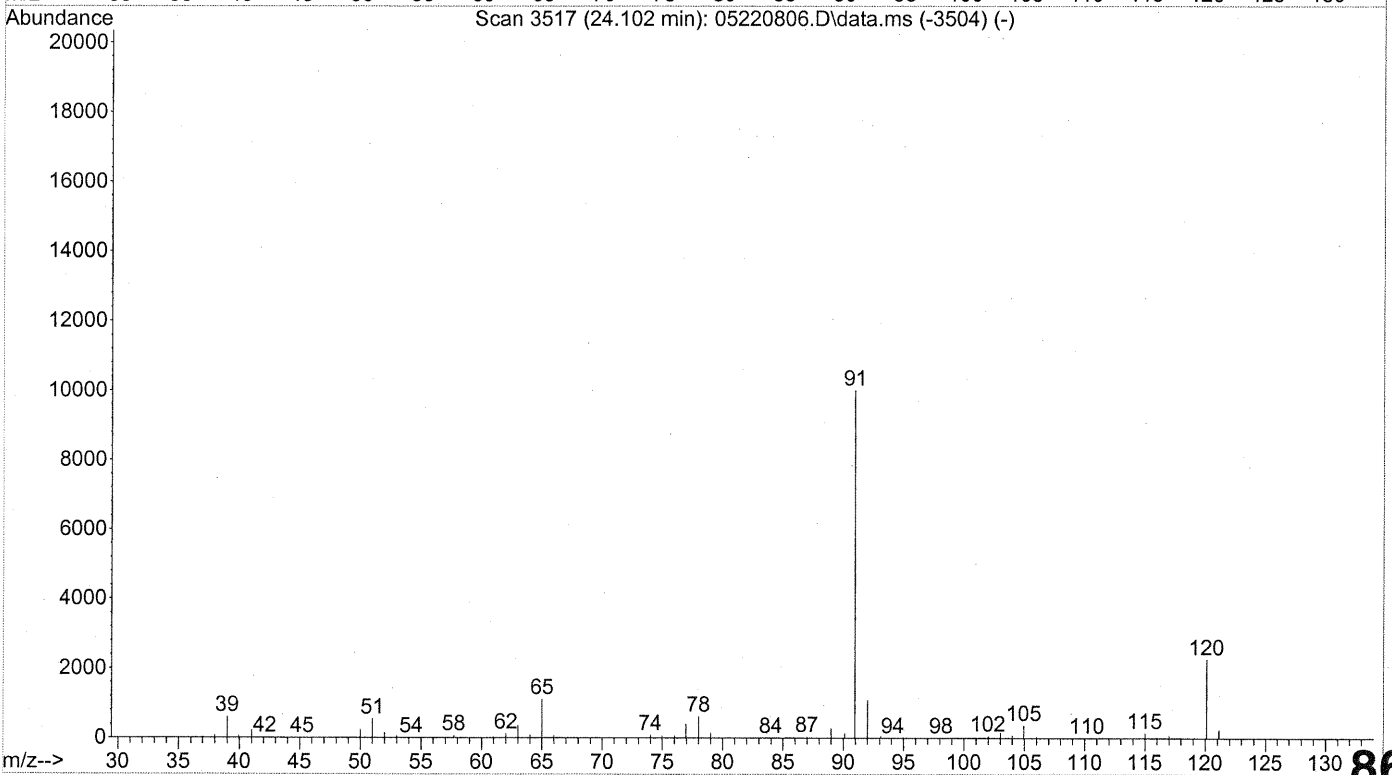
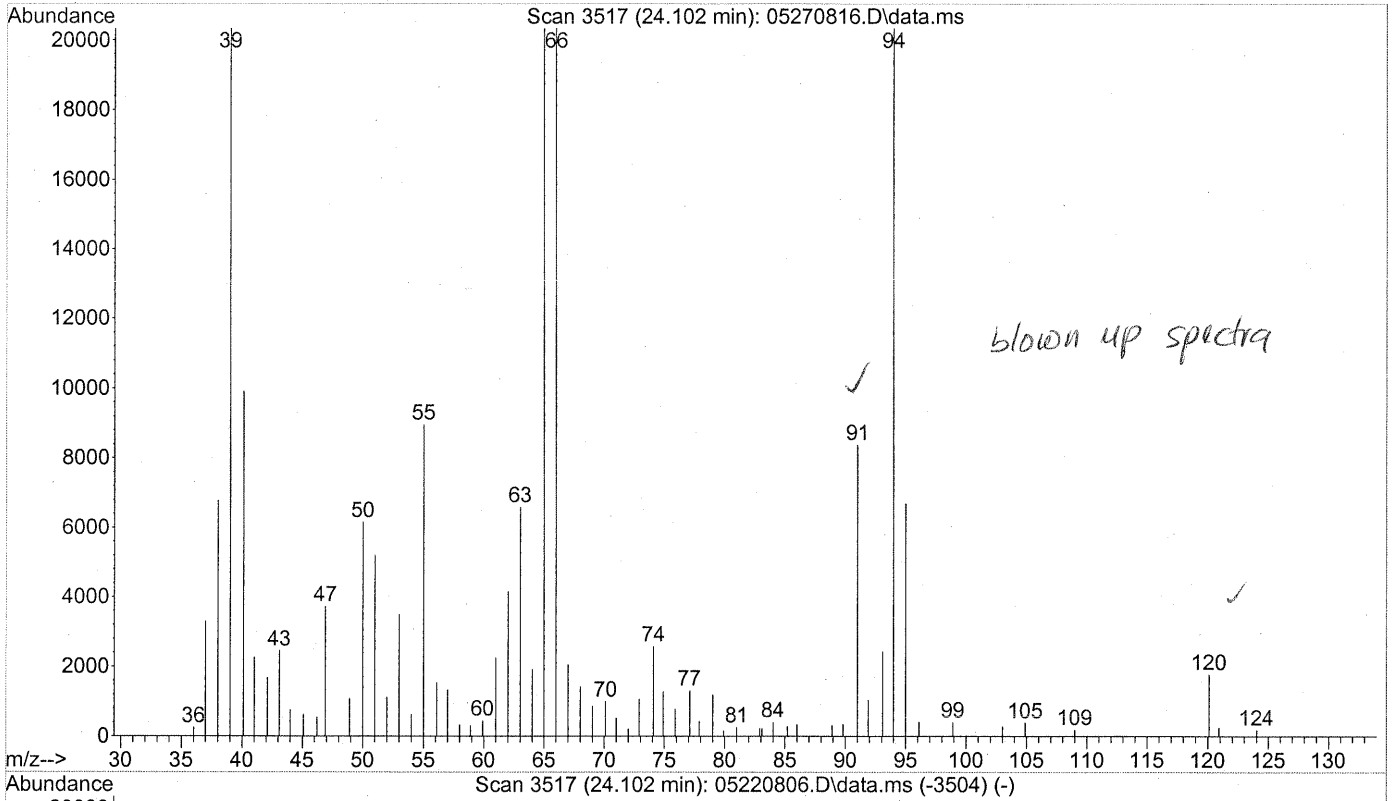
24.102min (+0.000) 0.10ng

response 16851

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	20.03
65.00	11.40	0.00
0.00	0.00	0.00

see blown up spectra

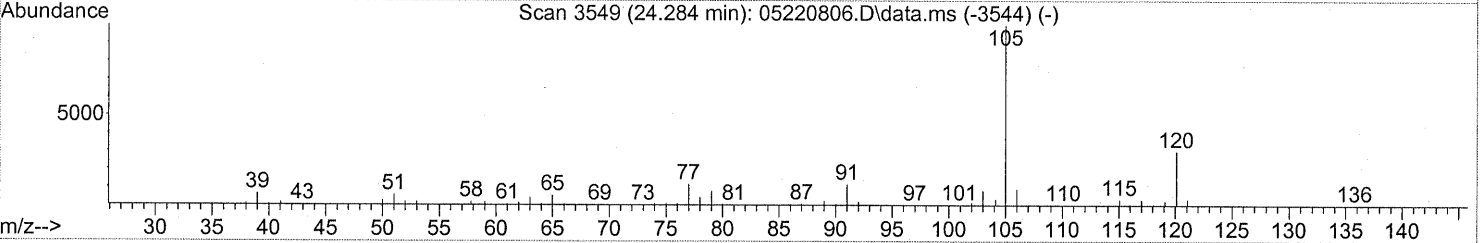
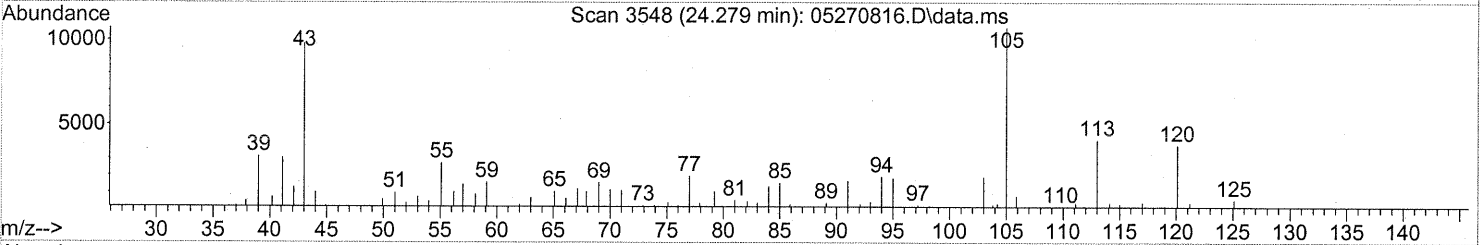
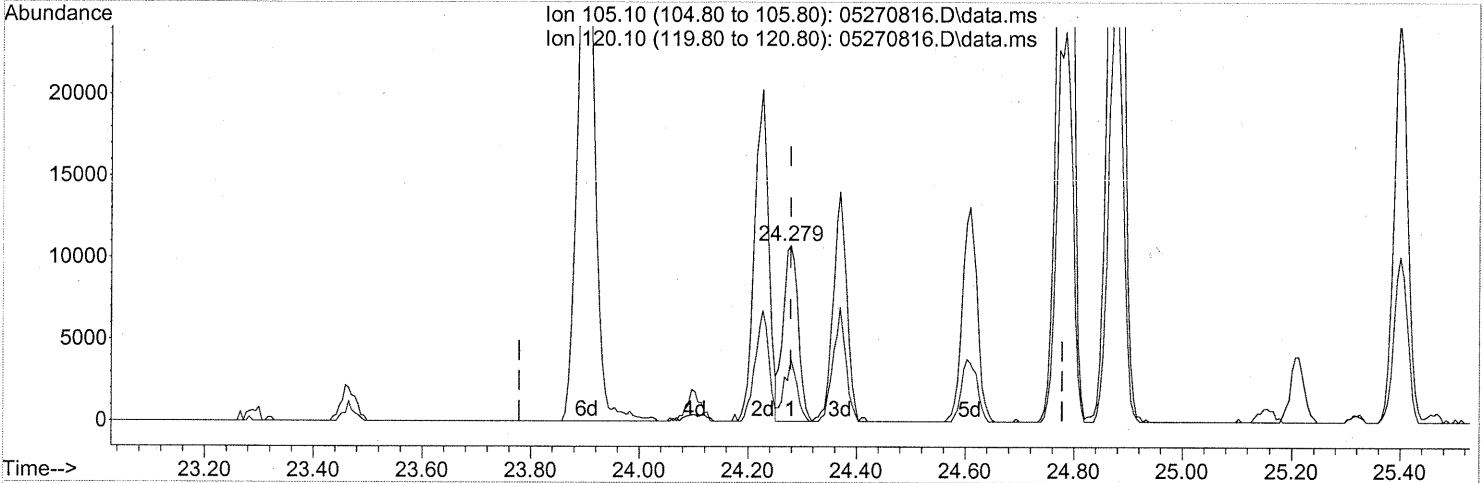
File :J:\MS13\DATA\2008_05\27\05270816.D
Operator : WA
Acquired : 27 May 2008 20:18 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-020 (1000ml)
Misc Info : ENSR SG63B-05 (-3.2, 3.7)
Vial Number: 1



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

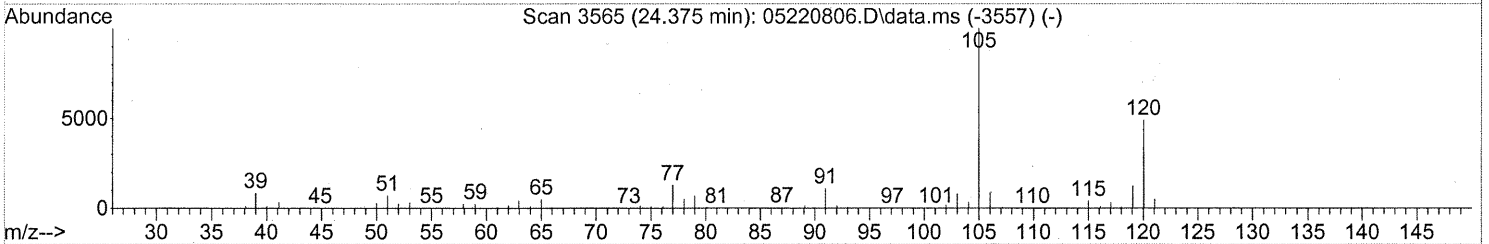
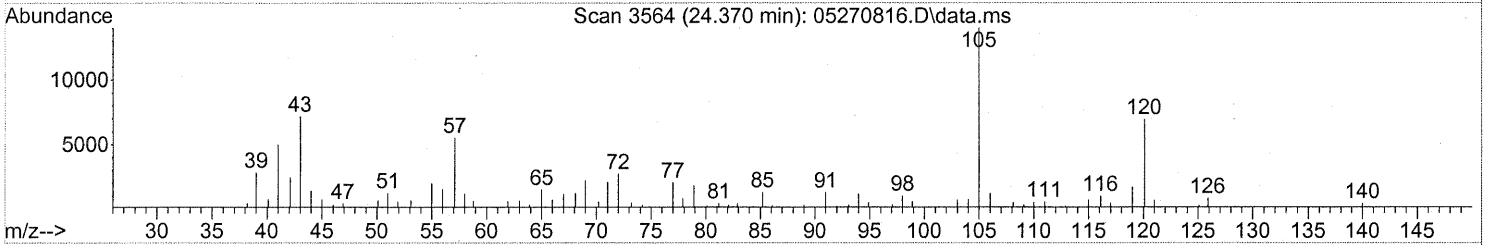
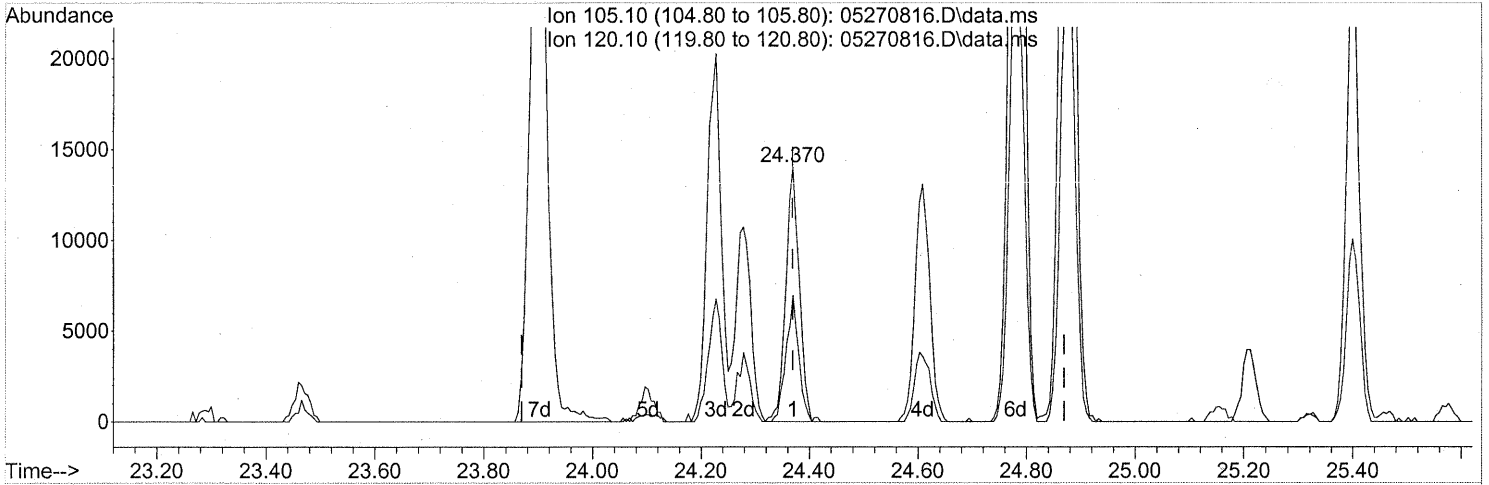
24.279min (+0.000) 0.16ng

response 20808

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.94
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

24.370min (+0.000) 0.21ng

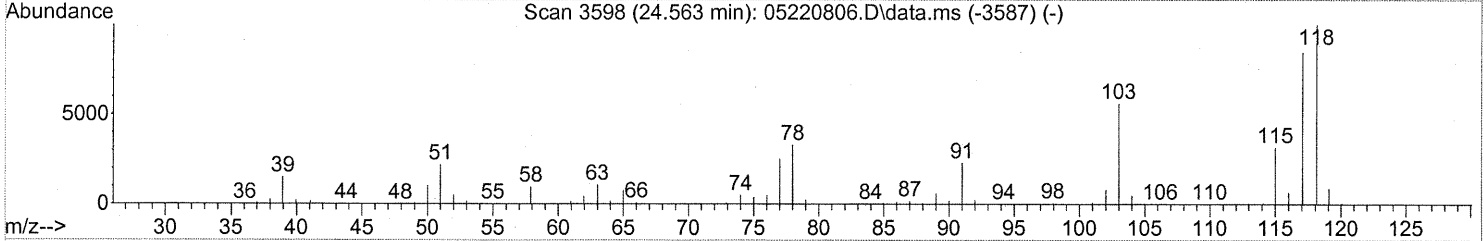
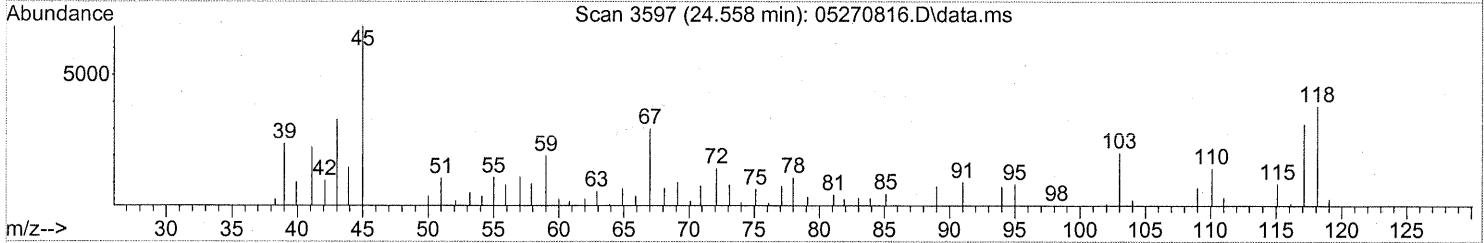
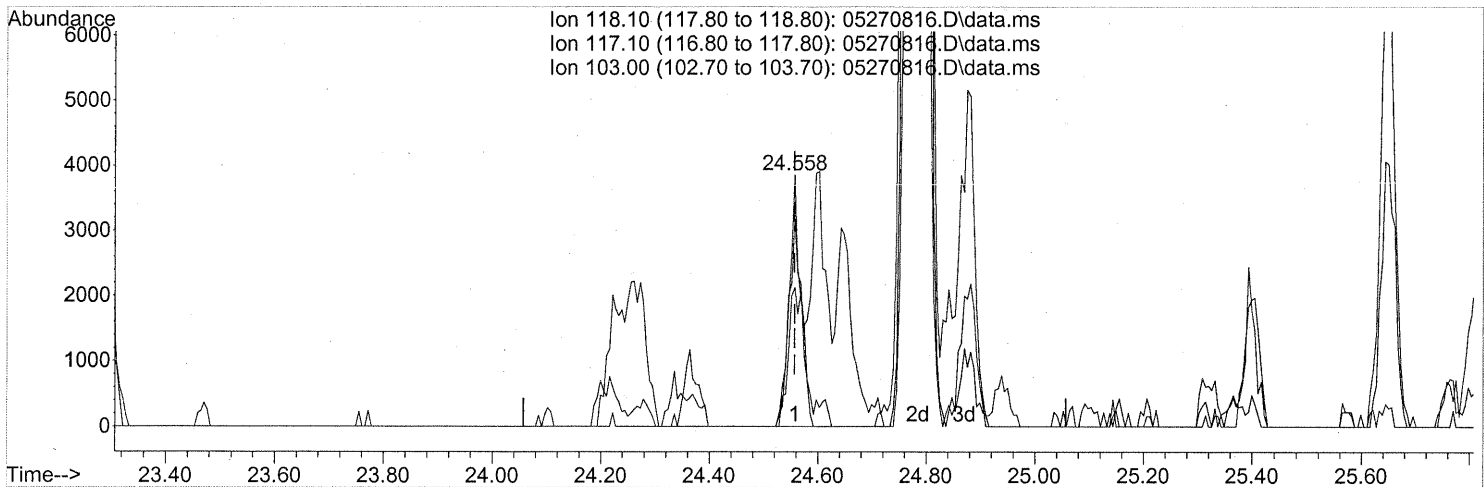
response 24434

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	46.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.558min (+0.000) 0.09ng

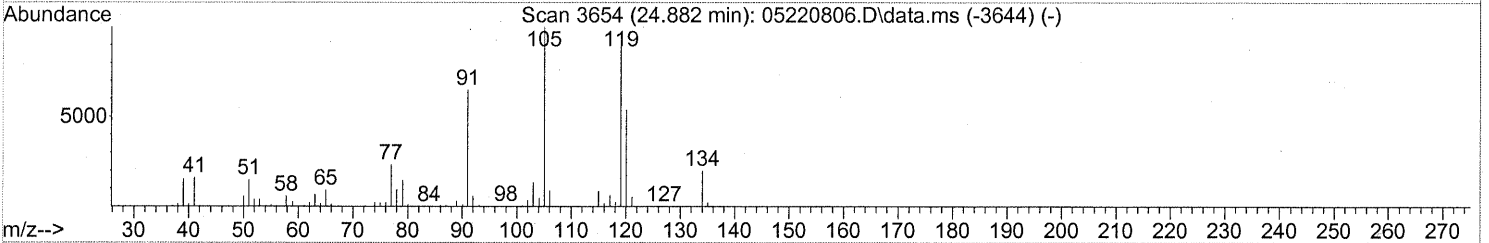
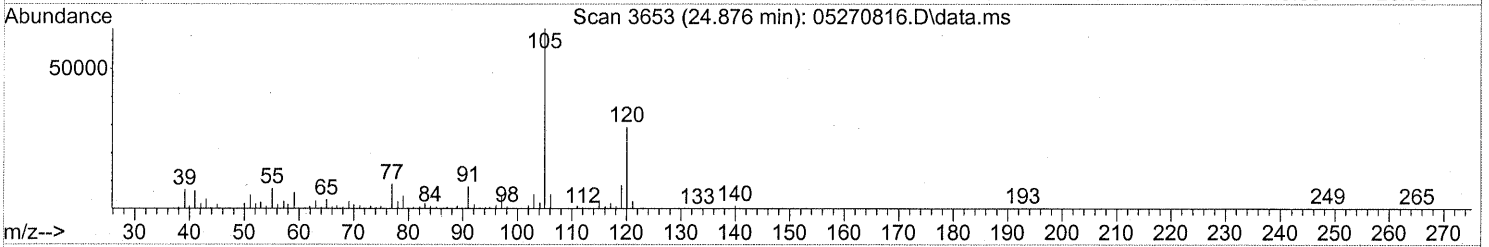
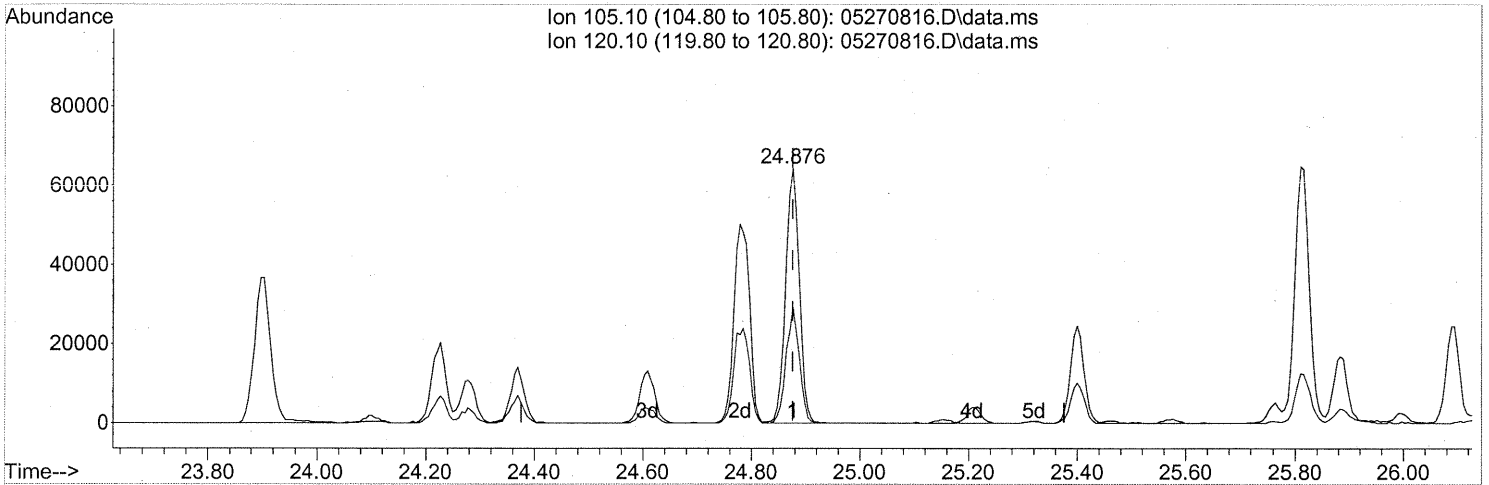
response 5641

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	106.84#
103.00	55.30	79.42#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

(82) 1,2,4-Trimethylbenzene (T)

24.876min (+0.000) 0.94ng

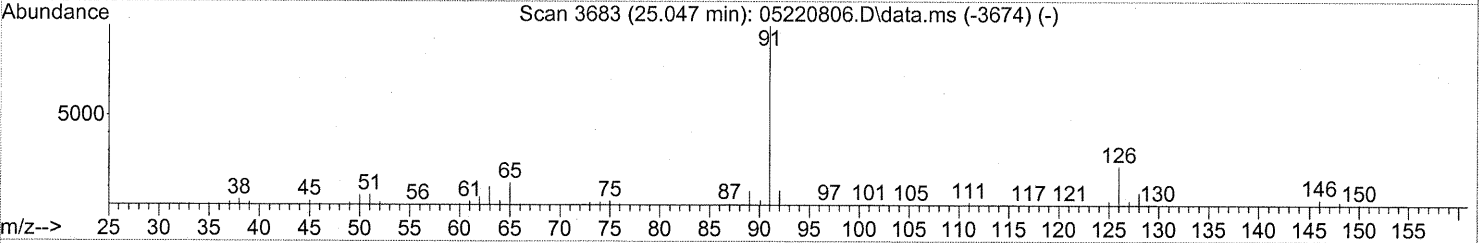
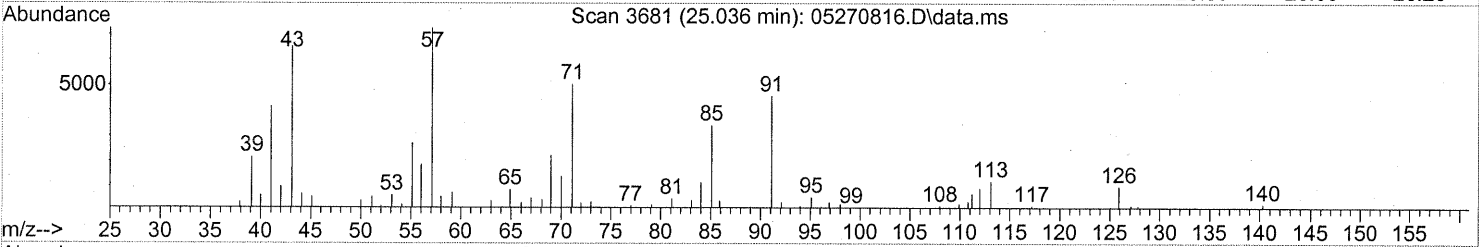
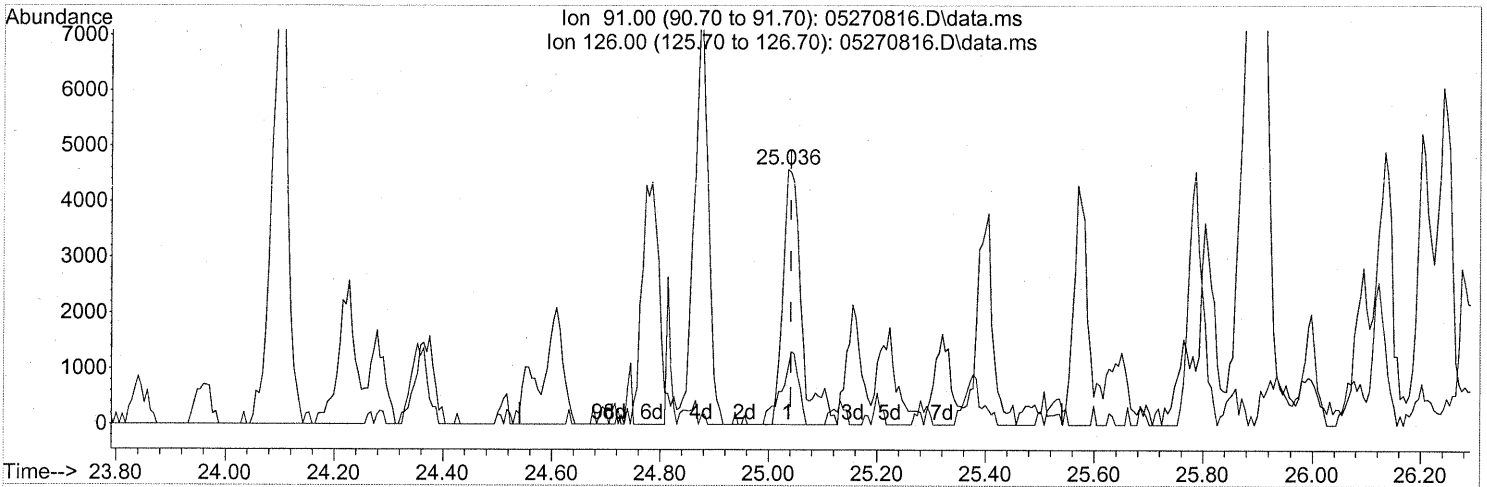
response 112756

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	43.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



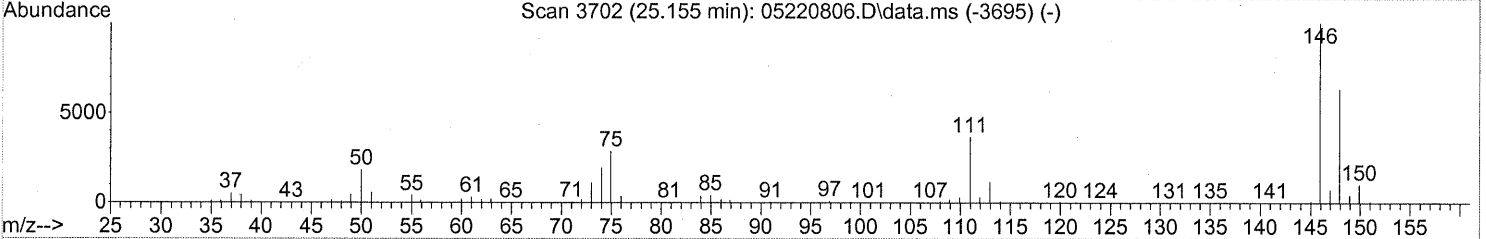
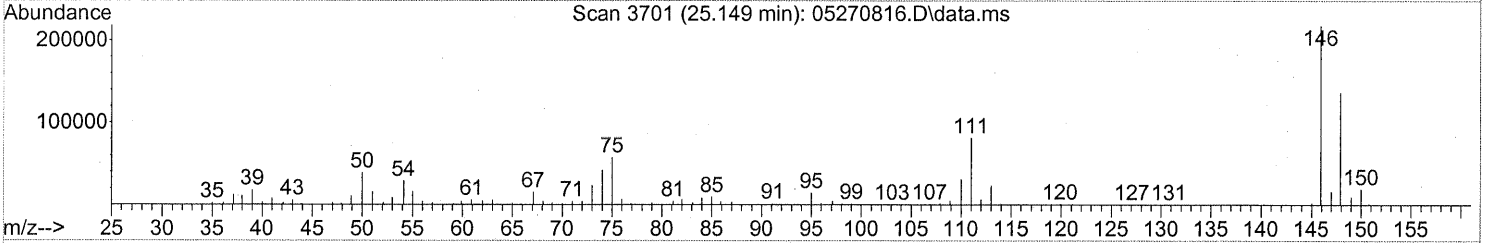
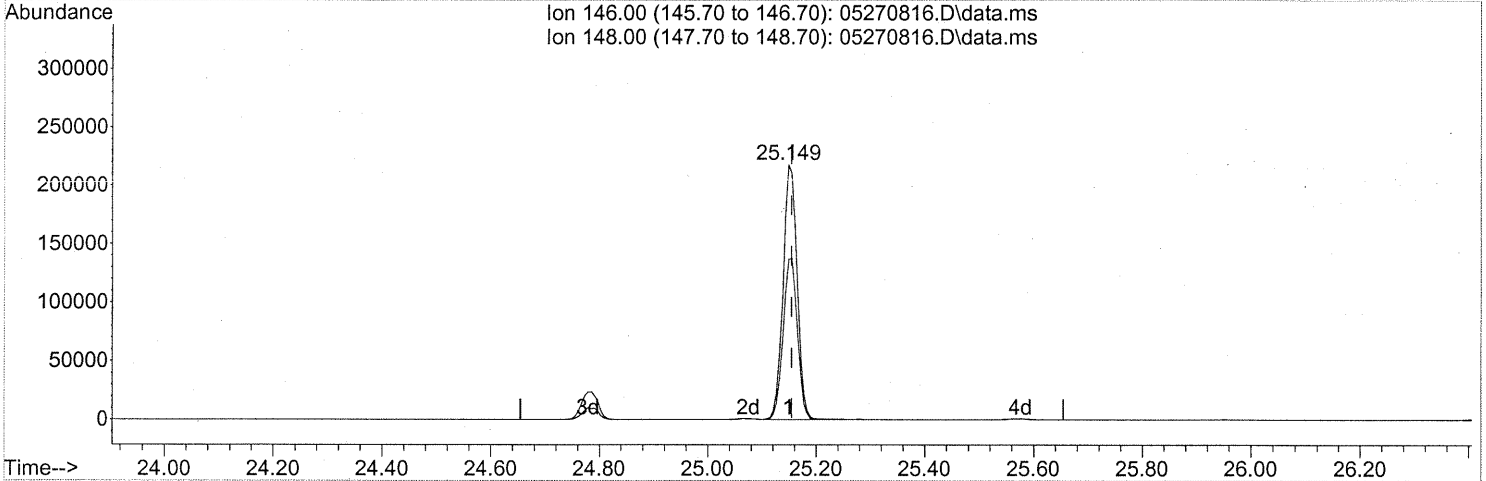
(84) Benzyl Chloride (T)
 25.036min (-0.006) 0.14ng
 response 10886

Ion	Exp%	Act%
91.00	100	100
126.00	22.50	26.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

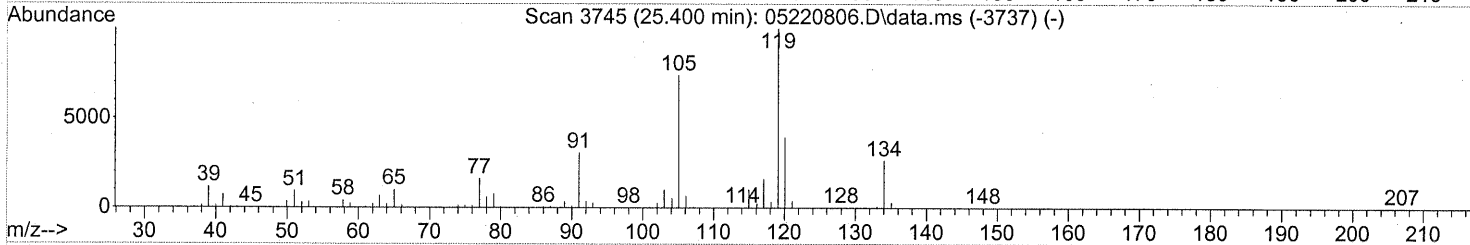
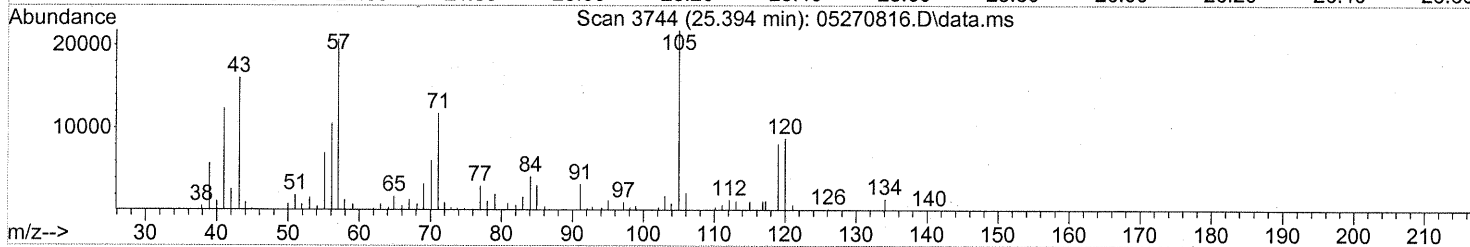
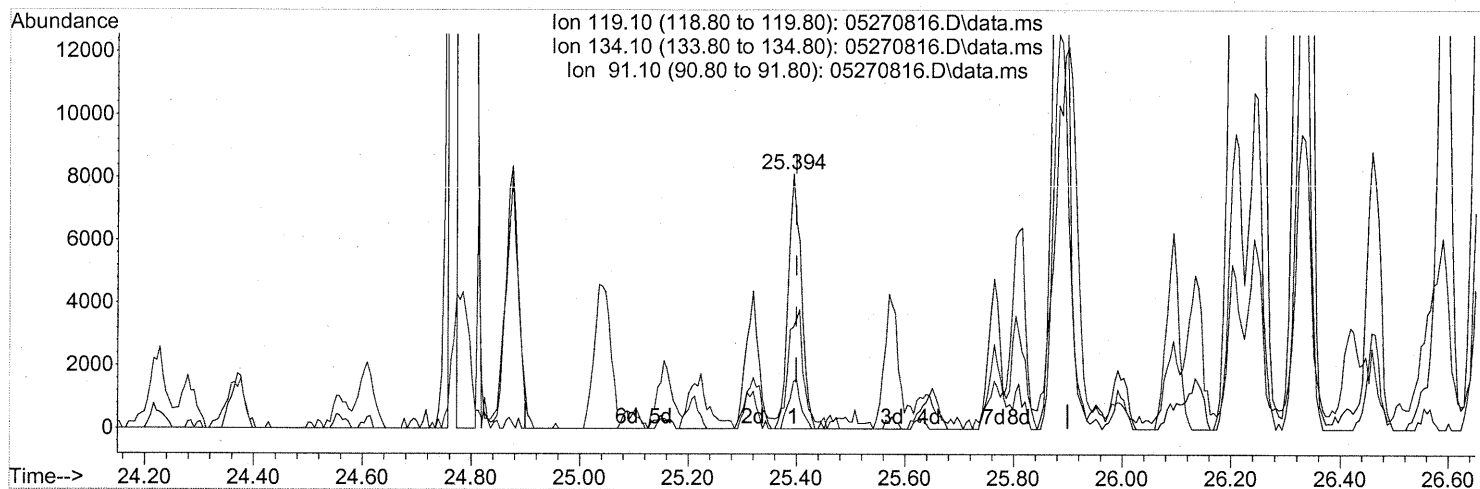
(86) 1,4-Dichlorobenzene (T)
 25.149min (-0.006) 5.42ng
 response 393451

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.11ng

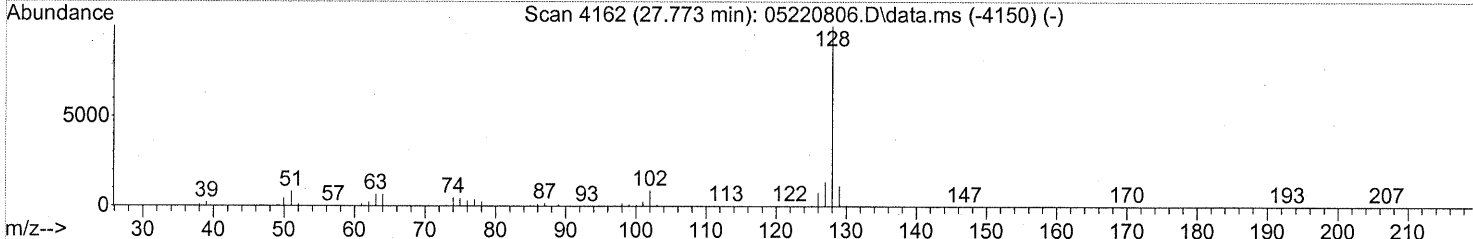
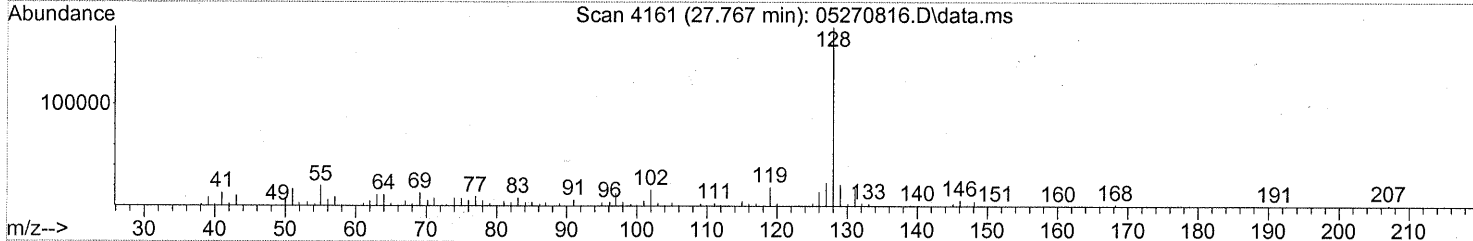
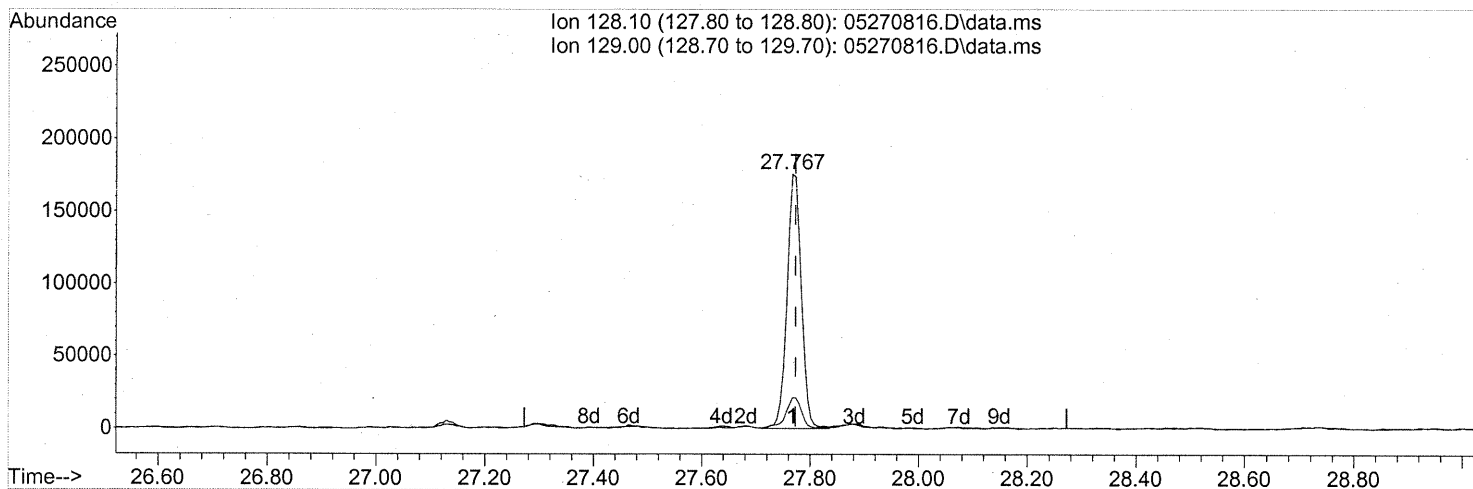
response 13584

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	17.96
91.10	27.10	55.60#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:12:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270816.D\data.ms

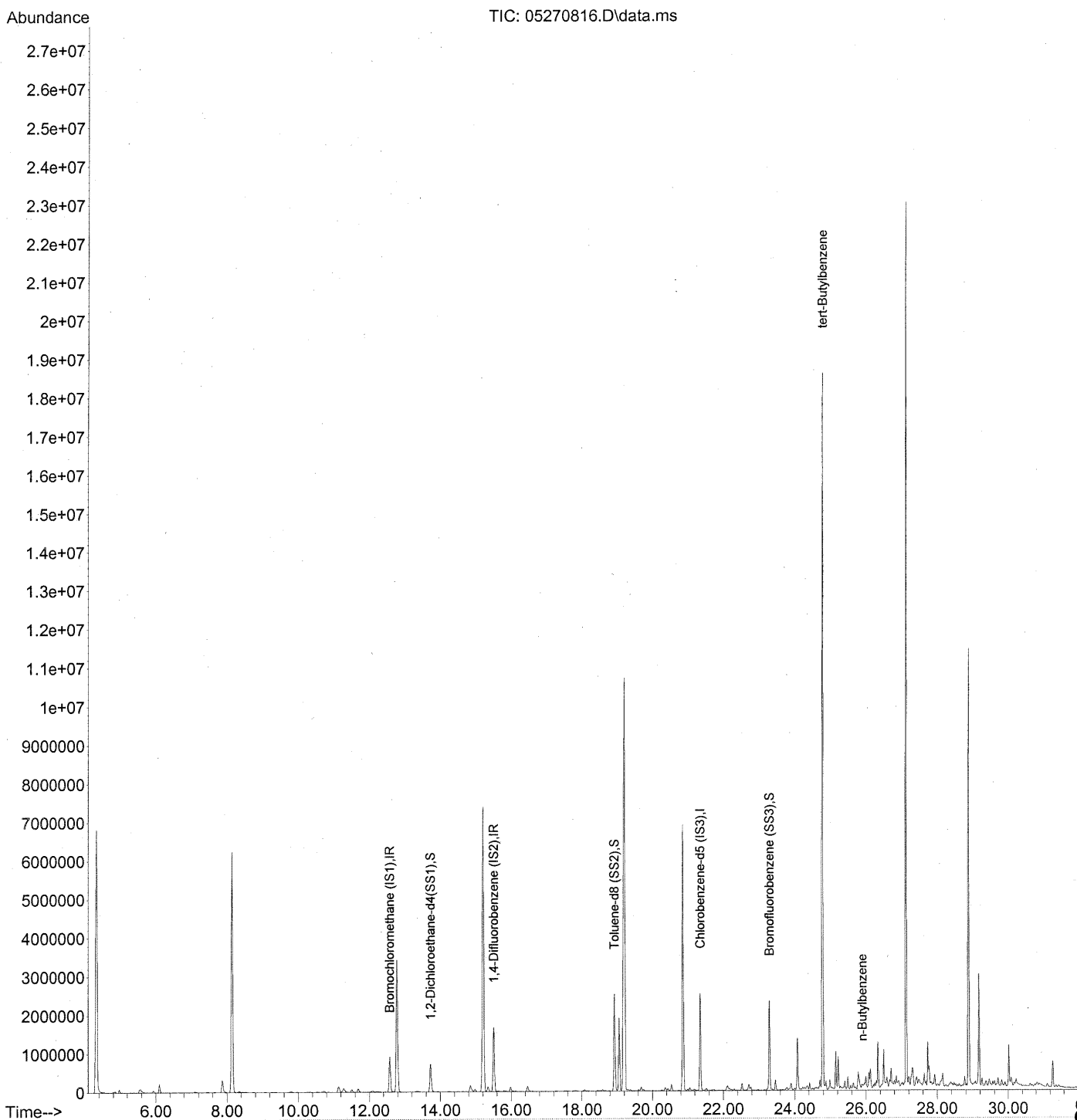
(95) Naphthalene (T)
 27.767min (-0.006) 2.03ng
 response 321529

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.35
0.00	0.00	0.00
0.00	0.00	0.00

873

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 8:18 pm
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 13:12:53 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 8:18 pm
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

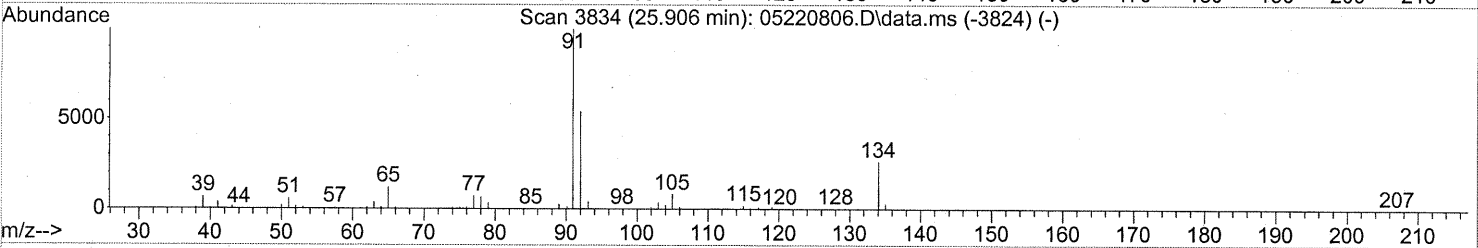
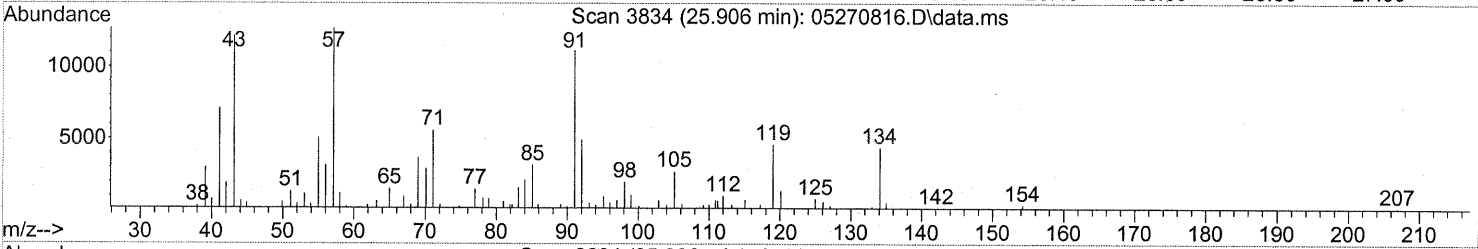
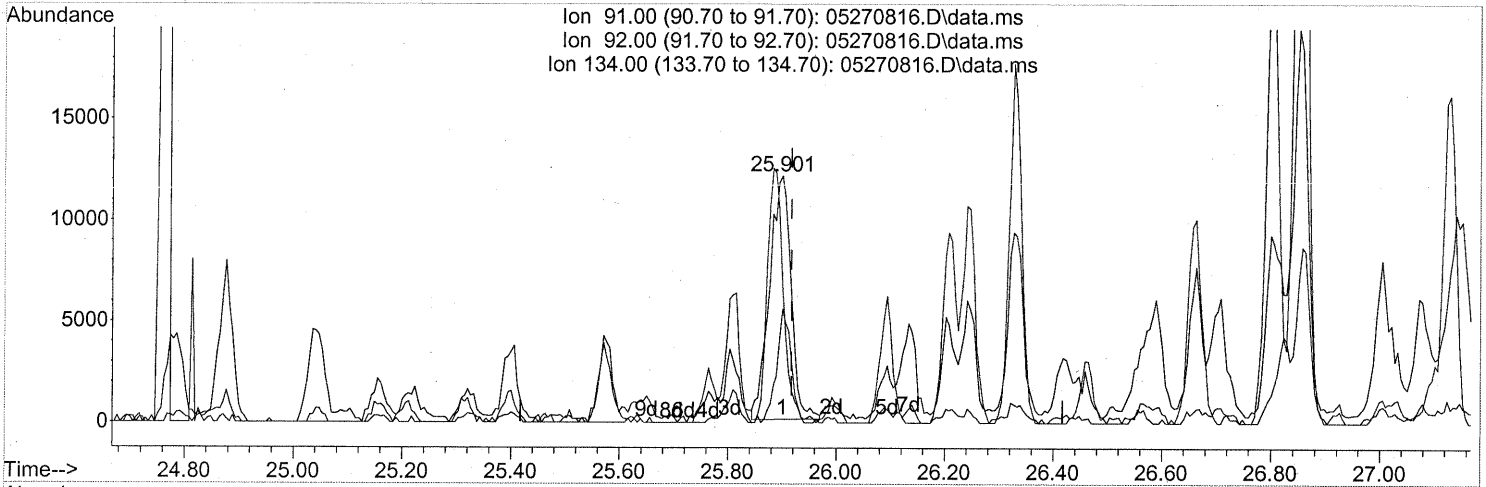
Quant Time: May 31 13:12:53 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	476389	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1976297	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	975336	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	765932	23.204	ng	-0.03
Spiked Amount	25.000		Recovery	=	92.80%	
5) Toluene-d8 (SS2)	18.93	98	2119793	24.200	ng	-0.01
Spiked Amount	25.000		Recovery	=	96.80%	
6) Bromofluorobenzene (SS3)	23.29	174	889157	24.962	ng	0.00
Spiked Amount	25.000		Recovery	=	99.84%	
Target Compounds						
7) tert-Butylbenzene	24.79	119	394449	3.444 ng	NR	94
8) n-Butylbenzene	<u>25.90</u>	91	33167	<u>0.262 ng</u>	M#	46

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

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270816.D
 Acq On : 27 May 2008 20:18
 Operator : WA
 Sample : P0801483-020 (1000ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 13:12:53 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

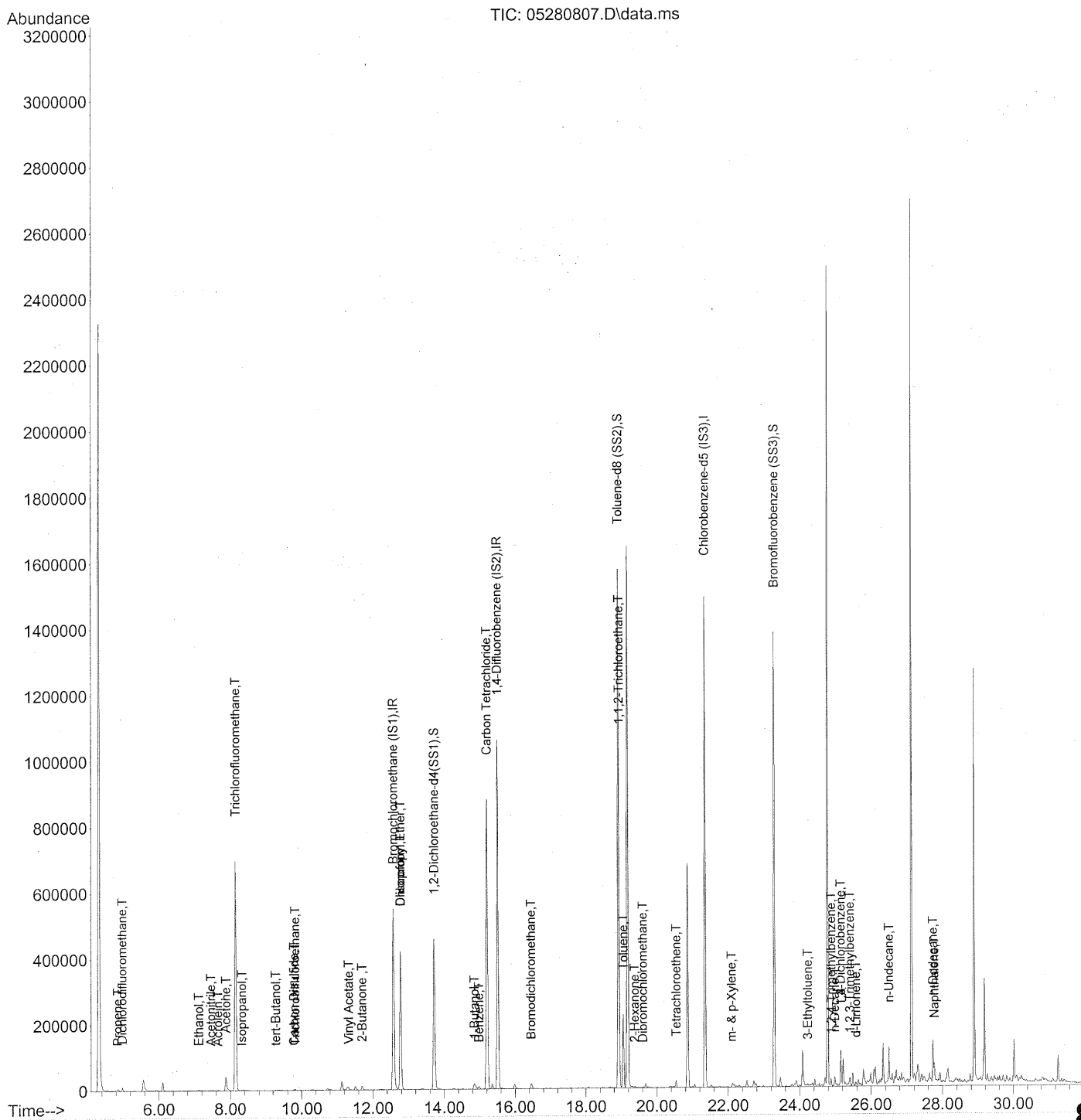


(8) n-Butylbenzene
 25.901min (-0.017) 0.26ng
 response 33167

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	31.42#
134.00	28.80	78.31#
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280807.D
 Acq On : 28 May 2008 13:48
 Operator : WA
 Sample : P0801483-020 Dil (200ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:54:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280807.D
 Acq On : 28 May 2008 13:48
 Operator : WA
 Sample : P0801483-020 Dil (200ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:54:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	289623	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1225857	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	585745	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)	Recovery
33) 1,2-Dichloroethane-d4 (...)	13.72	65	476745	23.757	ng	0.00	
Spiked Amount				25.000			95.04%
57) Toluene-d8 (SS2)	18.92	98	1294334	24.604	ng	0.00	
Spiked Amount				25.000			98.40%
73) Bromofluorobenzene (SS3)	23.29	174	532844	24.909	ng	0.00	
Spiked Amount				25.000			99.64%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	2112	0.092	ng	# 68
3) Dichlorodifluoromethane	4.98	85	11129	0.264	ng	97
4) Chloromethane	5.32	50	1243	N.D.		
5) Freon 114	5.54	135	73	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.11	45	5096	0.335	ng	88
11) Acetonitrile	7.46	41	3604	0.082	ng	# 50
12) Acrolein	7.66	56	1527	0.140	ng	87
13) Acetone	7.87	58	24247	1.555	ng	# 76
14) Trichlorofluoromethane	8.14	101	808579	22.353	ng	99
15) Isopropanol	8.33	45	4578	0.092	ng	89
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	9.27	59	3614	0.085	ng	# 92
19) Methylene Chloride	9.37	84	555	N.D.		
20) Allyl Chloride	9.44	41	69	N.D.		
21) Trichlorotrifluoroethane	9.82	151	992	0.060	ng	94
22) Carbon Disulfide	9.78	76	3919	0.059	ng	81
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	56	N.D.		
25) Methyl tert-Butyl Ether	11.13	73	104	N.D.		
26) Vinyl Acetate	11.32	86	1624	0.564	ng	# 8
27) 2-Butanone	11.69	72	4310	0.379	ng	# 88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	45467	3.261	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.70	57	525	N.D.		

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280807.D
 Acq On : 28 May 2008 13:48
 Operator : WA
 Sample : P0801483-020 Dil (200ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:54:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	444630	16.836 ng	N.D.	99
34) Tetrahydrofuran	13.40	72	135	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.72	62	150	N.D.		
38) 1,1,1-Trichloroethane	14.30	97	54	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.85	56	18747	1.113 ng		93
41) Benzene	14.98	78	8816	0.137 ng		99
42) Carbon Tetrachloride	15.21	117	750924	30.378 ng		99
43) Cyclohexane	15.34	84	570	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.45	83	11428	0.527 ng		100
47) Trichloroethene	16.54	130	141	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	476	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.78	58	121	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	113832	7.177 ng	#	8
58) Toluene	19.06	91	214736	3.003 ng		95
59) 2-Hexanone	19.37	43	2953	0.060 ng	#	50
60) Dibromochloromethane	19.60	129	2365	0.122 ng		97
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.19	43	1034	N.D.		
63) n-Octane	20.35	57	130	N.D.		
64) Tetrachloroethene	20.54	166	7866	0.372 ng		99
65) Chlorobenzene	21.42	112	68	N.D.		
66) Ethylbenzene	21.89	91	1211	N.D.		
67) m- & p-Xylene	22.09	91	3760	0.069 ng		92
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.57	104	455	N.D.		
70) o-Xylene	22.71	91	2134	N.D.		
71) n-Nonane	22.98	43	2010	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.31	83	54	N.D.		
74) Cumene	23.47	105	443	N.D.		
75) alpha-Pinene	23.95	93	257	N.D.		
76) n-Propylbenzene	24.10	91	1959	N.D.		
77) 3-Ethyltoluene	24.22	105	4348	0.052 ng		94
78) 4-Ethyltoluene	24.28	105	2469	N.D.		
79) 1,3,5-Trimethylbenzene	24.37	105	2995	N.D.		

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Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280807.D
 Acq On : 28 May 2008 13:48
 Operator : WA
 Sample : P0801483-020 Dil (200ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:54:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

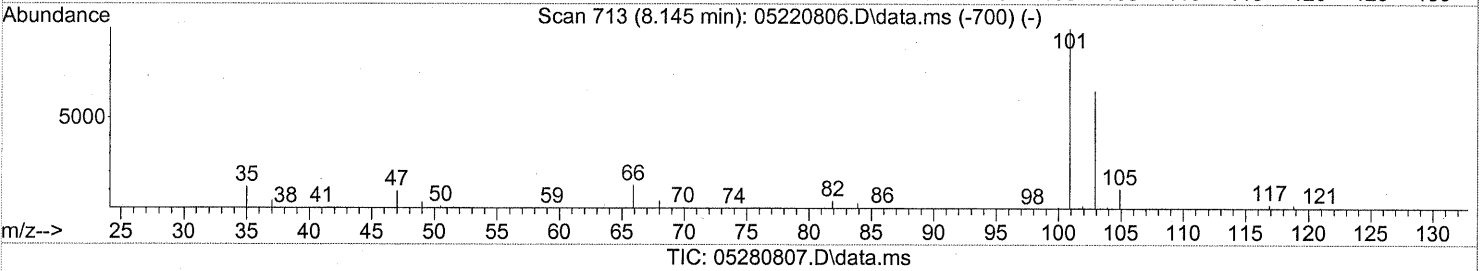
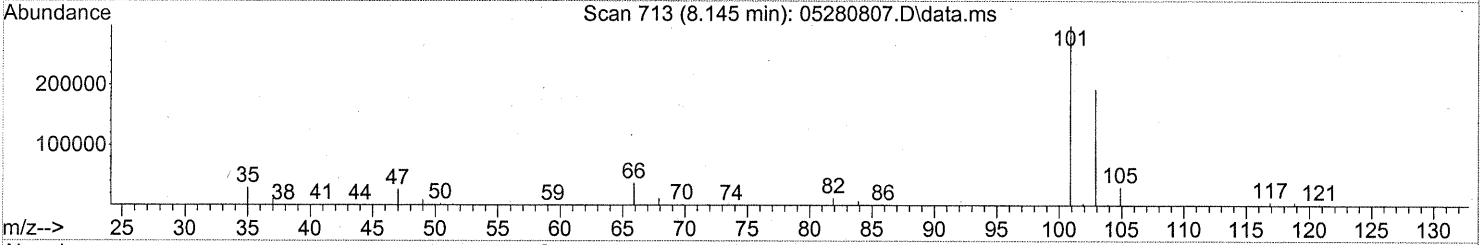
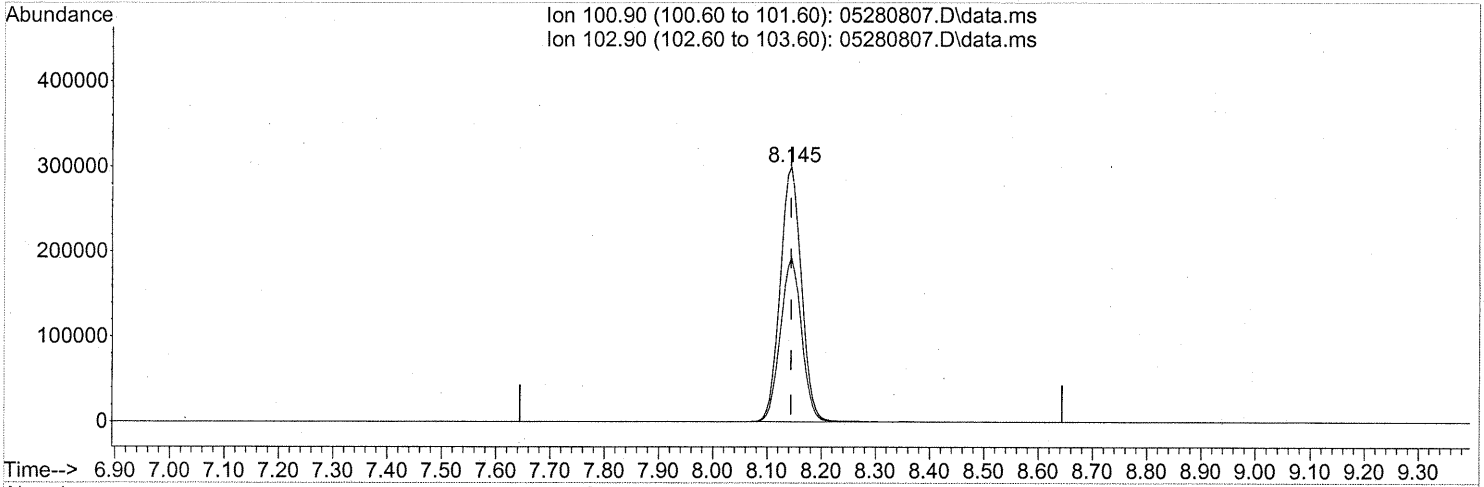
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	441	N.D.		
81) 2-Ethyltoluene	24.61	105	2984	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	12665	0.176	ng	87
83) n-Decane	24.98	57	13442	0.340	ng	80
84) Benzyl Chloride	25.04	91	1179	N.D.		
85) 1,3-Dichlorobenzene	25.15	146	44705	0.994	ng	96
86) 1,4-Dichlorobenzene	25.15	146	44705	1.025	ng	96
87) sec-Butylbenzene	25.22	105	758	N.D.		
88) p-Isopropyltoluene	25.39	119	1564	N.D.		
89) 1,2,3-Trimethylbenzene	25.41	105	4786	0.068	ng	87
90) 1,2-Dichlorobenzene	25.15	146	44705	1.048	ng	97
91) d-Limonene	25.57	68	2873	0.100	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.50	157	67	N.D.		
93) n-Undecane	26.50	57	39593	0.956	ng	# 70
94) 1,2,4-Trichlorobenzene	27.63	180	324	N.D.		
95) Naphthalene	27.77	128	36513	0.385	ng	96
96) n-Dodecane	27.73	57	41514	1.007	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	195	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:48
Operator : WA
Sample : P0801483-020 Dil (200ml)
Misc : ENSR SG63B-05 (-3.2, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:54:35 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

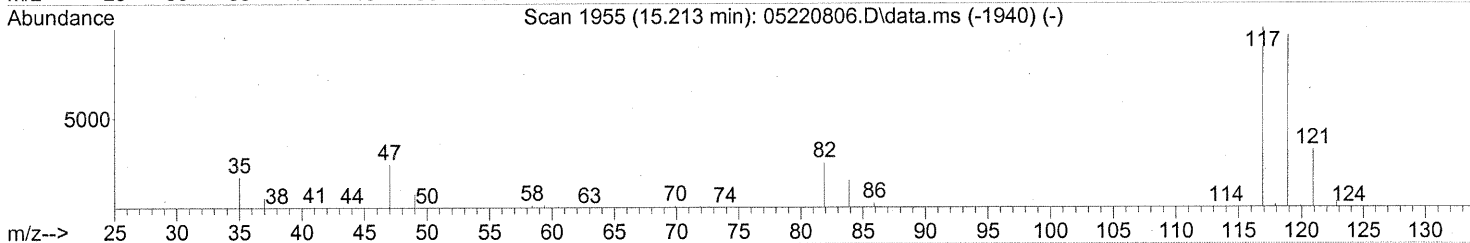
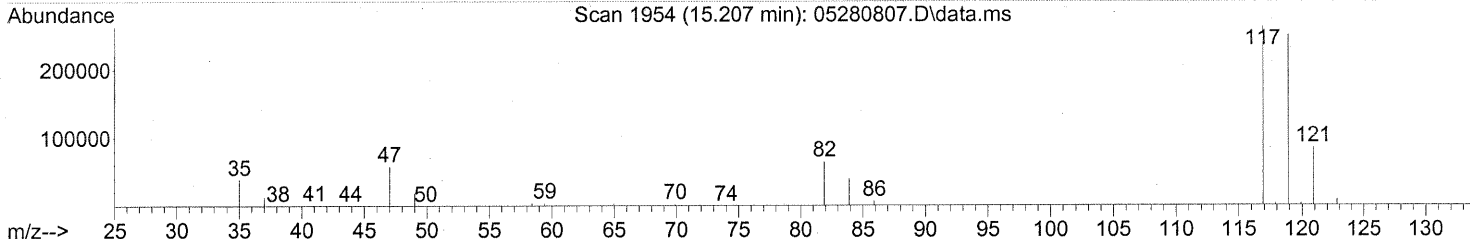
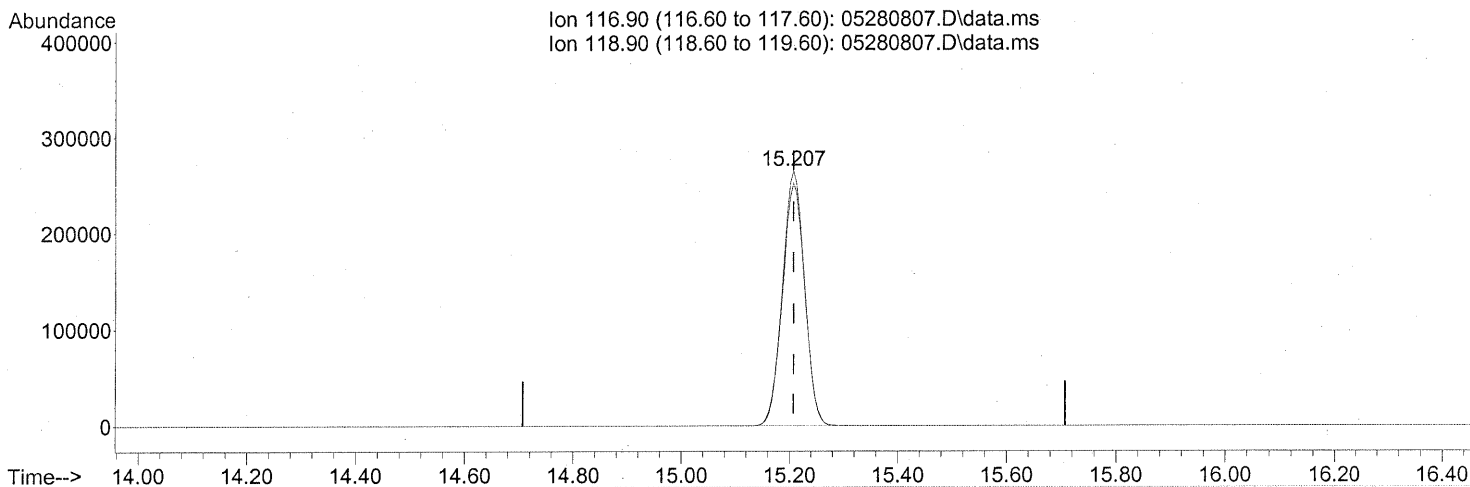
8.145min (+0.000) 22.35ng

response 808579

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.29
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280807.D
 Acq On : 28 May 2008 1:48 pm
 Operator : WA
 Sample : P0801483-020 Dil (200ml)
 Misc : ENSR SG63B-05 (-3.2, 3.7)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:54:35 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (+0.000) 30.38ng

response 750924.

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.16
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG16B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-021

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00529

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.79	0.079	0.41	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.079	ND	0.076	0.038	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.12	0.79	0.079	0.017	0.11	0.011	J
75-01-4	Vinyl Chloride	0.094	0.16	0.079	0.037	0.061	0.031	J
74-83-9	Bromomethane	ND	0.16	0.079	ND	0.040	0.020	
75-00-3	Chloroethane	27	0.16	0.079	10	0.060	0.030	
64-17-5	Ethanol	5.7	7.9	0.079	3.0	4.2	0.042	J, B
67-64-1	Acetone	11	7.9	0.11	4.4	3.3	0.048	B
75-69-4	Trichlorofluoromethane	1.1	0.16	0.079	0.19	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.79	0.11	ND	0.36	0.051	
75-35-4	1,1-Dichloroethene	0.10	0.16	0.079	0.026	0.040	0.020	J
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.52	0.79	0.12	0.17	0.26	0.038	J
75-09-2	Methylene Chloride	6.4	0.79	0.079	1.8	0.23	0.023	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.079	ND	0.050	0.025	
76-13-1	Trichlorotrifluoroethane	0.47	0.16	0.088	0.062	0.020	0.011	
75-15-0	Carbon Disulfide	0.90	0.79	0.19	0.29	0.25	0.061	B
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
75-34-3	1,1-Dichloroethane	3.7	0.16	0.079	0.91	0.039	0.019	
1634-04-4	Methyl tert-Butyl Ether	0.13	0.16	0.079	0.037	0.044	0.022	J
108-05-4	Vinyl Acetate	0.84	7.9	0.25	0.24	2.2	0.071	J, B
78-93-3	2-Butanone (MEK)	4.4	0.79	0.079	1.5	0.27	0.027	B
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
108-20-3	Diisopropyl Ether	ND	0.79	0.093	ND	0.19	0.022	
67-66-3	Chloroform	84	0.16	0.093	17	0.032	0.019	B

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG16B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-021

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00529

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.79	0.080	ND	0.19	0.019	
107-06-2	1,2-Dichloroethane	0.77	0.16	0.079	0.19	0.039	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.079	ND	0.029	0.014	
71-43-2	Benzene	2.2	0.16	0.079	0.69	0.049	0.025	
56-23-5	Carbon Tetrachloride	0.35	0.16	0.079	0.056	0.025	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.79	0.079	ND	0.19	0.019	
78-87-5	1,2-Dichloropropane	ND	0.16	0.079	ND	0.034	0.017	
75-27-4	Bromodichloromethane	0.69	0.16	0.079	0.10	0.023	0.012	
79-01-6	Trichloroethene	4.4	0.16	0.079	0.82	0.029	0.015	
123-91-1	1,4-Dioxane	0.25	0.79	0.096	0.070	0.22	0.027	J
80-62-6	Methyl Methacrylate	ND	0.79	0.12	ND	0.19	0.029	
142-82-5	n-Heptane	0.36	0.79	0.10	0.087	0.19	0.025	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.082	ND	0.17	0.018	
108-10-1	4-Methyl-2-pentanone	ND	0.79	0.088	ND	0.19	0.021	
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.099	ND	0.17	0.022	
79-00-5	1,1,2-Trichloroethane	1.2	0.16	0.079	0.22	0.029	0.014	
108-88-3	Toluene	1.0	0.79	0.079	0.27	0.21	0.021	
591-78-6	2-Hexanone	0.38	0.79	0.12	0.093	0.19	0.029	J
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.018	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.085	ND	0.020	0.011	
111-65-9	n-Octane	0.24	0.79	0.079	0.052	0.17	0.017	J
127-18-4	Tetrachloroethene	87	0.16	0.079	13	0.023	0.012	
108-90-7	Chlorobenzene	1.5	0.16	0.080	0.33	0.034	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: ENSR
Client Sample ID: SG16B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-021

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00529

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.23	0.79	0.097	0.052	0.18	0.022	J
179601-23-1	m,p-Xylenes	0.55	0.79	0.20	0.13	0.18	0.047	J
75-25-2	Bromoform	ND	0.79	0.12	ND	0.076	0.012	
100-42-5	Styrene	ND	0.79	0.12	ND	0.18	0.028	
95-47-6	o-Xylene	0.39	0.79	0.099	0.090	0.18	0.023	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	Cumene	ND	0.79	0.088	ND	0.16	0.018	
103-65-1	n-Propylbenzene	ND	0.79	0.082	ND	0.16	0.017	
622-96-8	4-Ethyltoluene	ND	0.79	0.089	ND	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	ND	0.79	0.094	ND	0.16	0.019	
98-83-9	alpha-Methylstyrene	0.54	0.79	0.11	0.11	0.16	0.024	J
95-63-6	1,2,4-Trimethylbenzene	0.25	0.79	0.11	0.051	0.16	0.022	J
100-44-7	Benzyl Chloride	ND	0.16	0.14	ND	0.030	0.026	
541-73-1	1,3-Dichlorobenzene	0.65	0.16	0.097	0.11	0.026	0.016	
106-46-7	1,4-Dichlorobenzene	0.48	0.16	0.088	0.080	0.026	0.015	
135-98-8	sec-Butylbenzene	ND	0.79	0.091	ND	0.14	0.017	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.79	0.10	ND	0.14	0.019	
95-50-1	1,2-Dichlorobenzene	0.71	0.16	0.10	0.12	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	0.12	ND	0.081	0.012	
120-82-1	1,2,4-Trichlorobenzene	1.6	0.16	0.12	0.21	0.021	0.016	
91-20-3	Naphthalene	0.72	0.31	0.12	0.14	0.060	0.022	
87-68-3	Hexachlorobutadiene	4.2	0.16	0.14	0.39	0.015	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.079	ND	0.057	0.014	
104-51-8	n-Butylbenzene	0.18	0.31	0.079	0.032	0.057	0.014	J, M

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

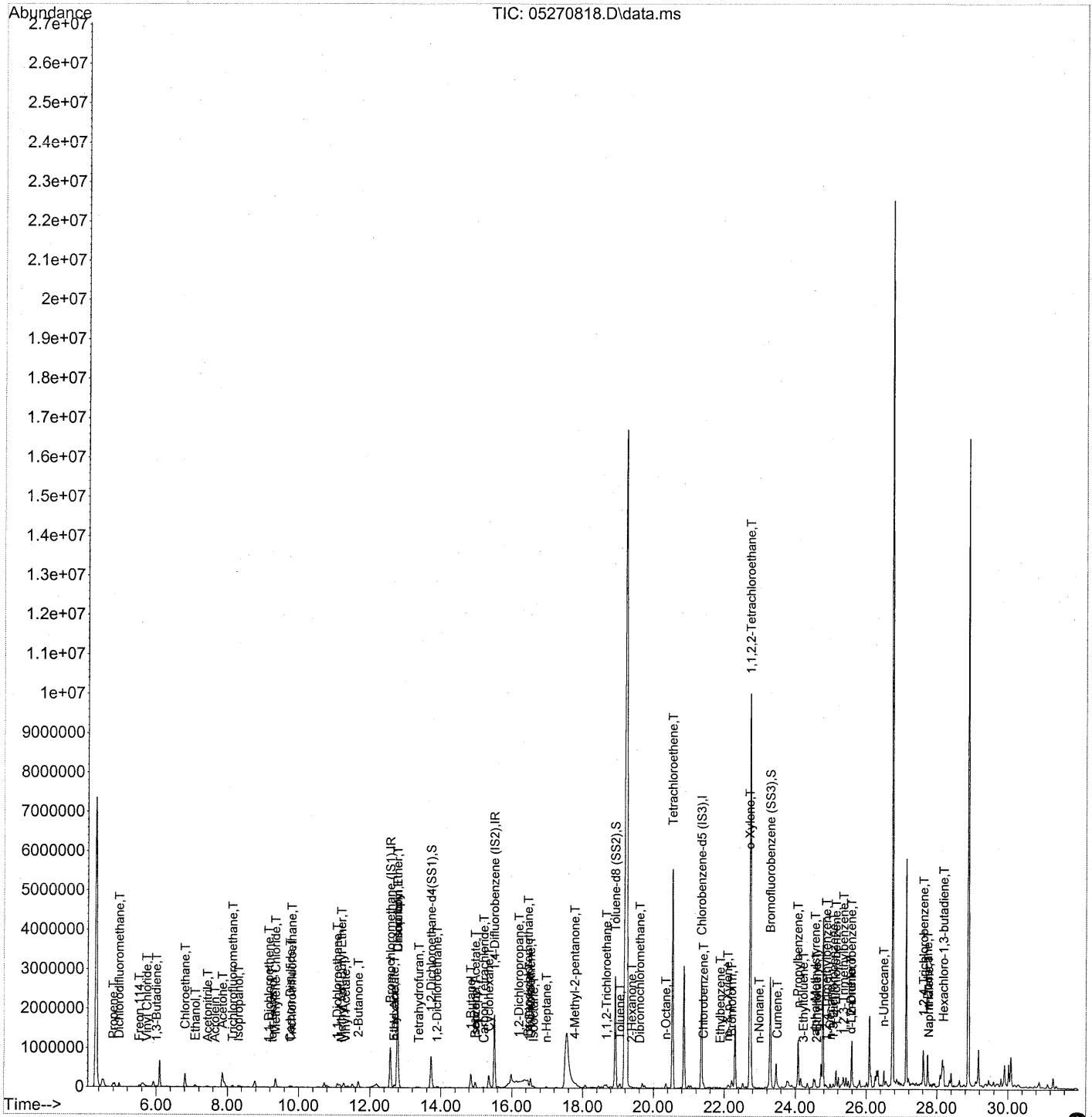
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CA Date: 6/4/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 11:20:11 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
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 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	528439	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2230556	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1064161	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	833718	22.770	ng	0.00	
Spiked Amount	25.000		Recovery	=	91.08%		✓
57) Toluene-d8 (SS2)	18.93	98	2412161	25.239	ng	0.00	
Spiked Amount	25.000		Recovery	=	100.96%		✓
73) Bromofluorobenzene (SS3)	23.29	174	1022338	26.305	ng	0.00	
Spiked Amount	25.000		Recovery	=	105.24%		✓

Target Compounds

						Qvalue
2) Propene	4.80	42	49451	1.185	ng	# 81
3) Dichlorodifluoromethane	4.97	85	98244	1.277	ng	98
4) Chloromethane	5.30	50	2195	N.D.	✓	
5) Freon 114	5.53	135	2792	0.074	ng	86
6) Vinyl Chloride	5.74	62	2971	0.060	ng	81
7) 1,3-Butadiene	6.01	54	5967	0.161	ng	# 79
8) Bromomethane	6.47	94	247	N.D.	✓	
9) Chloroethane	6.82	64	412618	17.428	ng	95
10) Ethanol	7.10	45	100460m	3.616	ng	
11) Acetonitrile	7.44	41	35139	0.437	ng	97
12) Acrolein	7.65	56	15678	0.790	ng	99
13) Acetone	7.86	58	190770	6.706	ng	# 46
14) Trichlorofluoromethane	8.14	101	44966	0.681	ng	97
15) Isopropanol	8.32	45	79097	0.872	ng	88
16) Acrylonitrile	8.62	53	595	N.D.	✓	
17) 1,1-Dichloroethene	9.17	96	1877	0.065	ng	# 86
18) tert-Butanol	9.27	59	25805m	0.334	ng	
19) Methylene Chloride	9.36	84	129518	4.074	ng	# 78
20) Allyl Chloride	9.54	41	1522	N.D.	✓	
21) Trichlorotrifluoroethane	9.81	151	9021	0.301	ng	96
22) Carbon Disulfide	9.77	76	69431	0.576	ng	100
23) trans-1,2-Dichloroethene	10.80	61	827	N.D.	✓	
24) 1,1-Dichloroethane	11.09	63	129751	2.352	ng	96
25) Methyl tert-Butyl Ether	11.21	73	7700	0.084	ng	92
26) Vinyl Acetate	11.32	86	2818	0.536	ng	# 1
27) 2-Butanone	11.68	72	58211	2.804	ng	94
28) cis-1,2-Dichloroethene	12.34	61	69	N.D.	✓	
29) Diisopropyl Ether	12.78	87	270643	10.638	ng	NR # 1
30) Ethyl Acetate	12.69	61	8297	0.740	ng	75
31) n-Hexane	12.70	57	20217	0.357	ng	88

Data Path : J:\MS13\DATA\2008_05\27\
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 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 11:20:11 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	2583272	53.609 ng		100
34) Tetrahydrofuran	13.38	72	5012	0.253 ng	#	73
35) Ethyl tert-Butyl Ether	13.49	87	69	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	22813	0.490 ng		97
38) 1,1,1-Trichloroethane	14.28	97	1766	N.D. ✓		
39) Isopropyl Acetate	14.97	61	1181	0.062 ng	#	1
40) 1-Butanol	14.85	56	296519	9.671 ng		87
41) Benzene	14.97	78	164052	1.405 ng		98
42) Carbon Tetrachloride	15.21	117	10083	0.224 ng		98
43) Cyclohexane	15.36	84	26742	0.589 ng	#	1
44) tert-Amyl Methyl Ether	15.83	73	322	N.D. ✓		
45) 1,2-Dichloropropane	16.20	63	2993	0.096 ng	UR#	14
46) Bromodichloromethane	16.46	83	17272m	0.438 ng		
47) Trichloroethene	16.53	130	100914	2.817 ng		99
48) 1,4-Dioxane	16.50	88	3541	0.161 ng	#	56
49) Isooctane	16.62	57	41053	0.307 ng	#	47
50) Methyl Methacrylate	16.70	100	322	N.D. ✓		
51) n-Heptane	16.98	71	7061	0.228 ng	#	82
52) cis-1,3-Dichloropropene	17.73	75	1610	N.D. ✓		
53) 4-Methyl-2-pentanone	17.78	58	28941	0.933 ng	UR#	45
54) trans-1,3-Dichloropropene	18.43	75	552	N.D. ✓		
55) 1,1,2-Trichloroethane	18.68	97	22039	0.764 ng		87
58) Toluene	19.06	91	84725	0.652 ng		100
59) 2-Hexanone	19.38	43	21641	0.242 ng	#	71
60) Dibromochloromethane	19.62	129	1887	0.054 ng		87
61) 1,2-Dibromoethane	19.75	107	68	N.D. ✓		
62) Butyl Acetate	20.19	43	1950	N.D.		
63) n-Octane	20.35	57	4420	0.154 ng		96
64) Tetrachloroethene	20.55	166	2126122	55.308 ng		99
65) Chlorobenzene	21.41	112	84763	0.973 ng		99
66) Ethylbenzene	21.89	91	21558	0.145 ng		95
67) m- & p-Xylene	22.10	91	34864	0.350 ng		95
68) Bromoform	22.21	173	1668	0.064 ng		99
69) Styrene	22.58	104	4451	N.D. ✓		
70) o-Xylene	22.71	91	26825	0.249 ng		83
71) n-Nonane	22.98	43	9961	0.130 ng	#	20
72) 1,1,2,2-Tetrachloroethane	22.73	83	2634	0.059 ng	#	1
74) Cumene	23.49	105	17789	0.124 ng	UR#	50
75) alpha-Pinene	23.97	93	3480	N.D.		
76) n-Propylbenzene	24.07	91	32576	0.179 ng	UR#	1
77) 3-Ethyltoluene	24.23	105	13281	0.087 ng		98
78) 4-Ethyltoluene	24.28	105	5938	N.D. ✓		
79) 1,3,5-Trimethylbenzene	24.37	105	3782	N.D. ✓		

888

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
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 Operator : WA
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 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 11:20:11 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

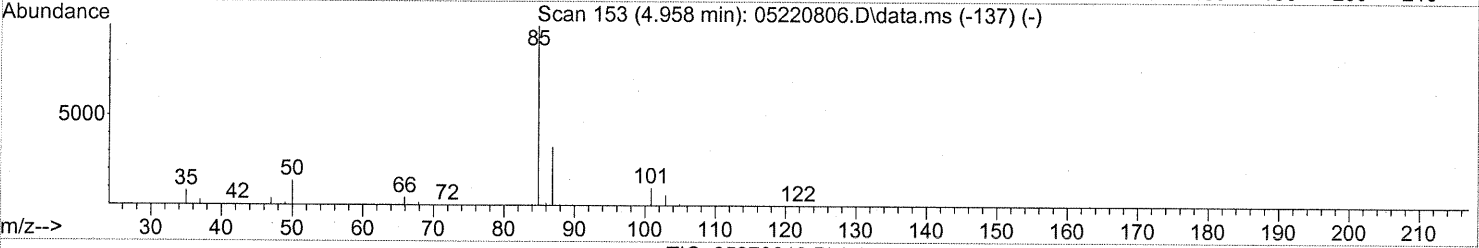
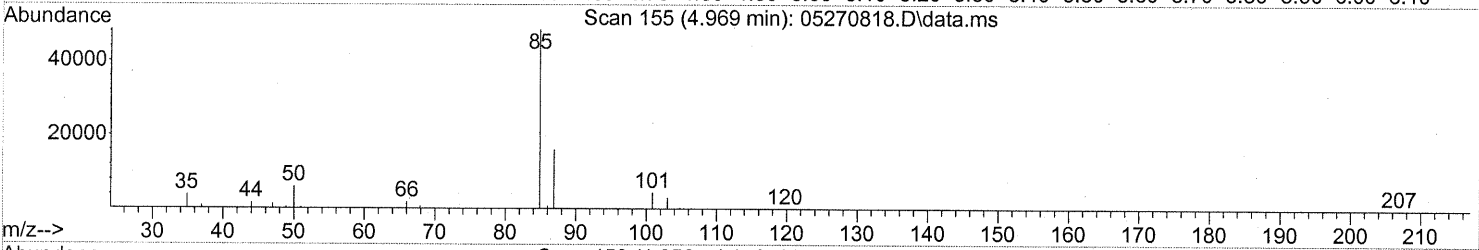
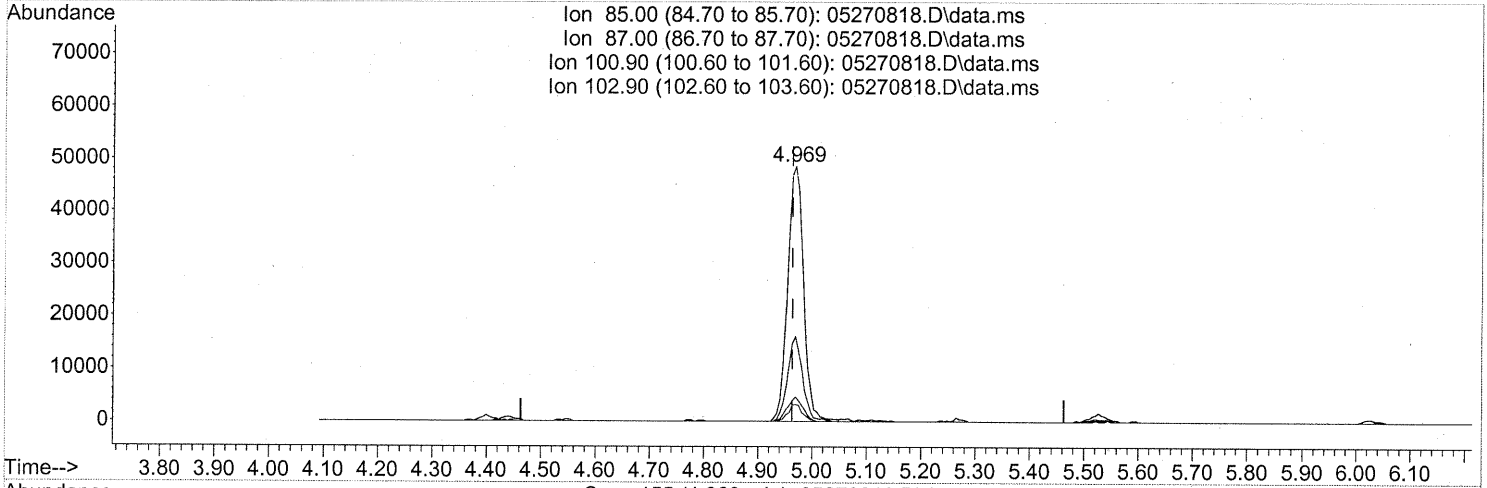
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	24084	0.346 ng	#	65
81) 2-Ethyltoluene	24.60	105	8900	0.058 ng		92
82) 1,2,4-Trimethylbenzene	24.88	105	20853	0.160 ng		88
83) n-Decane	24.98	57	40181	0.559 ng		79
84) Benzyl Chloride	25.03	91	4210	N.D. ✓		
85) 1,3-Dichlorobenzene	25.07	146	33896	0.415 ng		97
86) 1,4-Dichlorobenzene	25.15	146	24287	0.307 ng		97
87) sec-Butylbenzene	25.21	105	2151	N.D. ✓		
88) p-Isopropyltoluene	25.39	119	4700	N.D. ✓		
89) 1,2,3-Trimethylbenzene	25.37	105	24460	0.191 ng	#	26
90) 1,2-Dichlorobenzene	25.58	146	35271	0.455 ng		96
91) d-Limonene	25.57	68	5869	0.113 ng	#	10
92) 1,2-Dibromo-3-Chloropr...	26.25	157	59	N.D. ✓		
93) n-Undecane	26.50	57	160187	2.128 ng		77
94) 1,2,4-Trichlorobenzene	27.63	180	56678	0.998 ng		94
95) Naphthalene	27.77	128	79027	0.458 ng		96
96) n-Dodecane	27.74	57	259208	3.462 ng		83
97) Hexachloro-1,3-butadiene	28.19	225	100431	2.657 ng		99

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 1.28ng

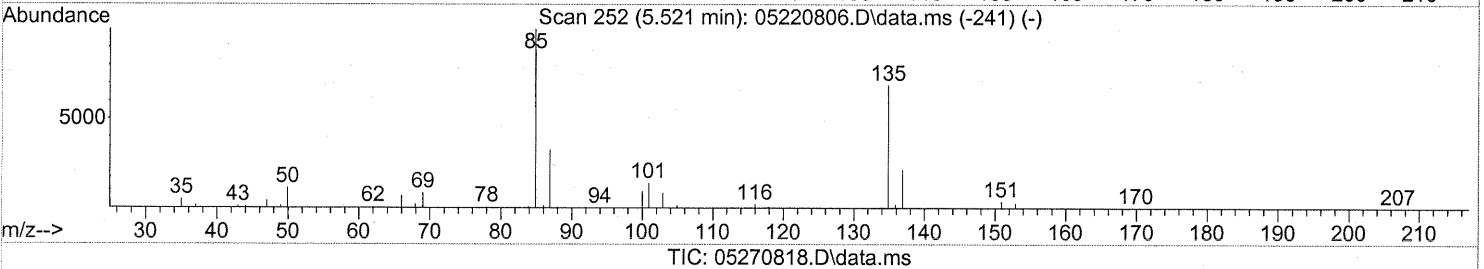
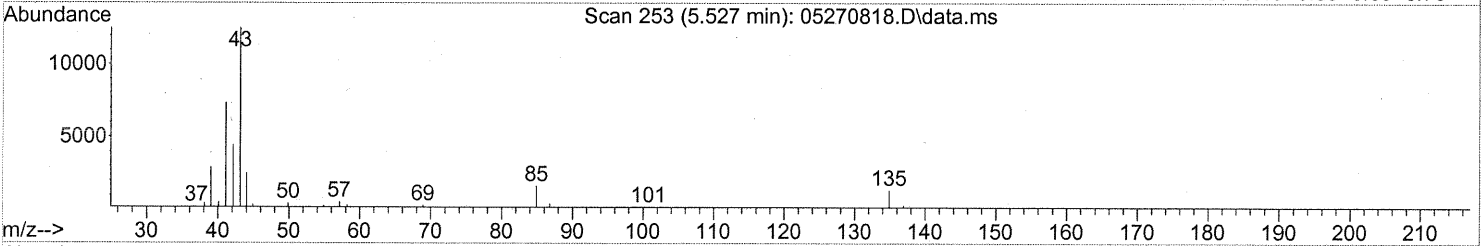
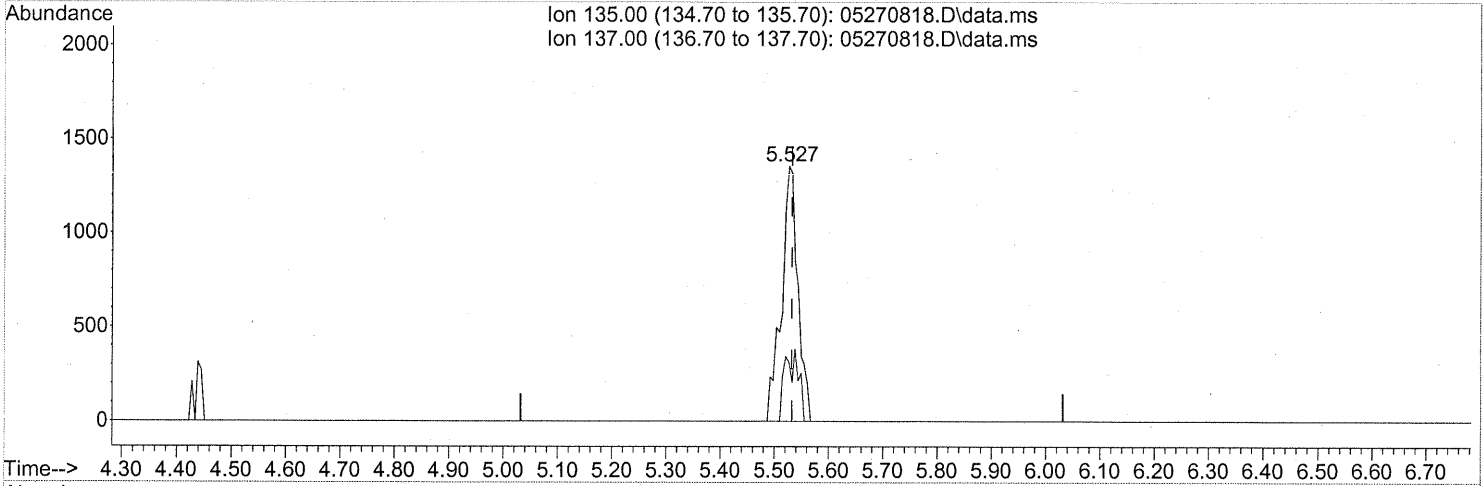
response 98244

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.32
100.90	9.30	9.09
102.90	6.00	5.77

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
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 ALS Vial : 2 Sample Multiplier: 1

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 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(5) Freon 114 (T)

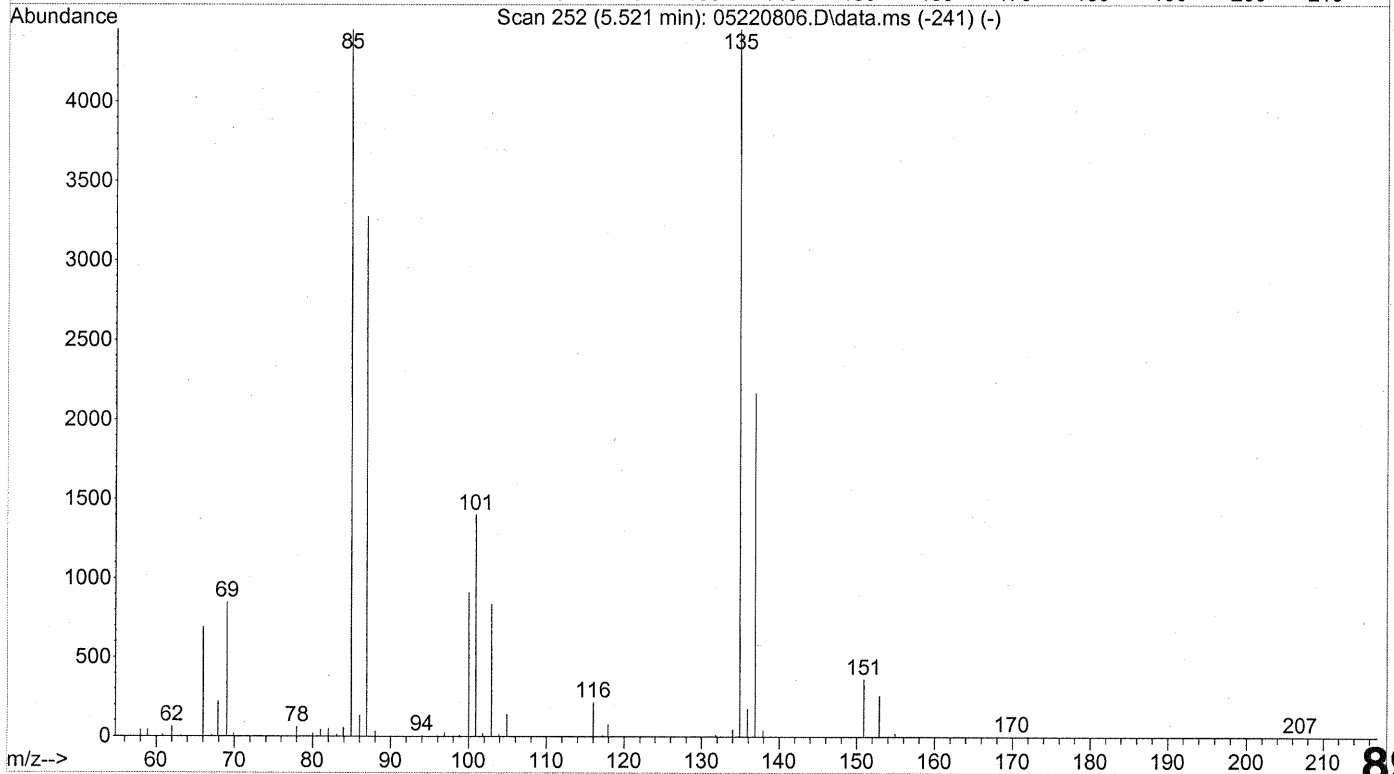
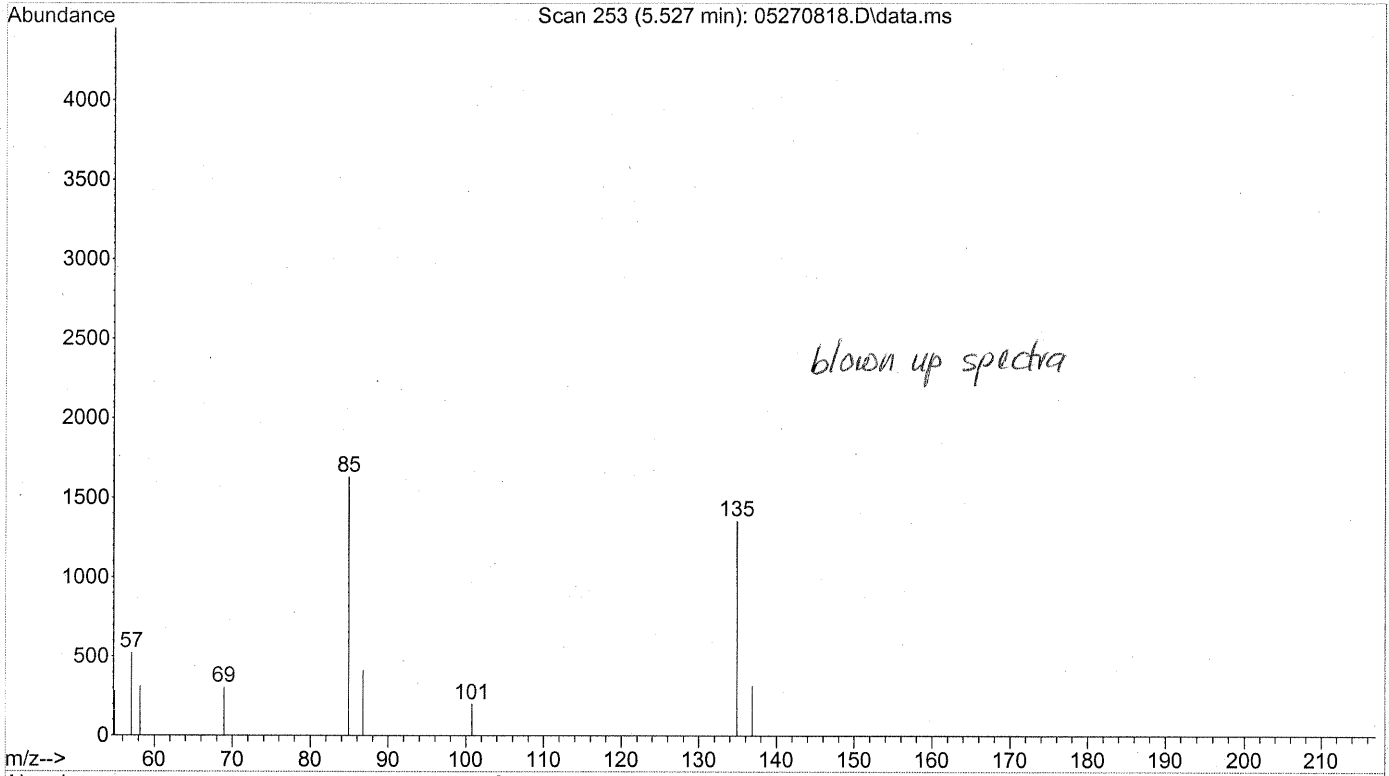
5.527min (-0.006) 0.07ng

response 2792

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	23.75
0.00	0.00	0.00
0.00	0.00	0.00

see blown up spectra

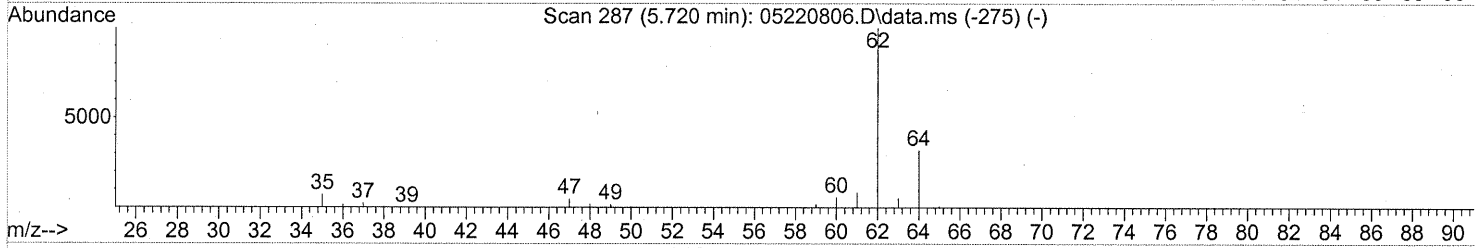
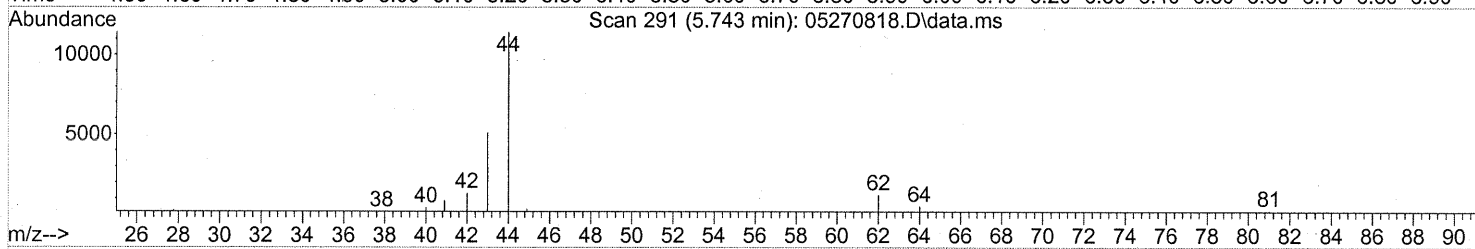
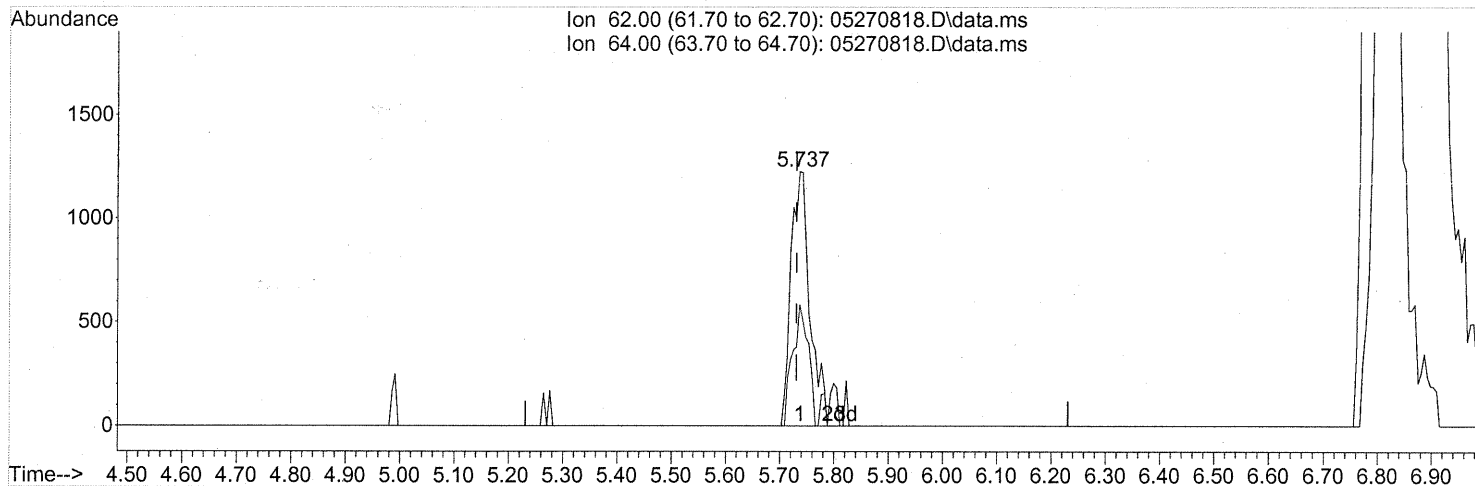
File : J:\MS13\DATA\2008_05\27\05270818.D
Operator : WA
Acquired : 27 May 2008 21:41 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-021 (1000ml)
Misc Info : ENSR SG16B-05 (-3.1, 3.5)
Vial Number: 2



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



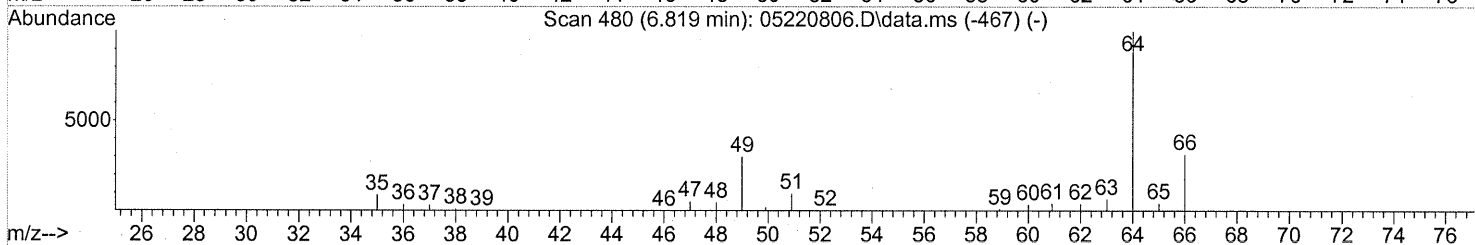
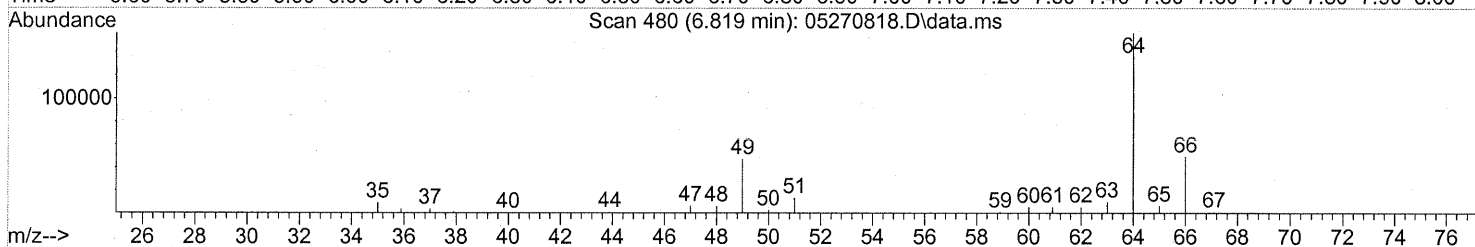
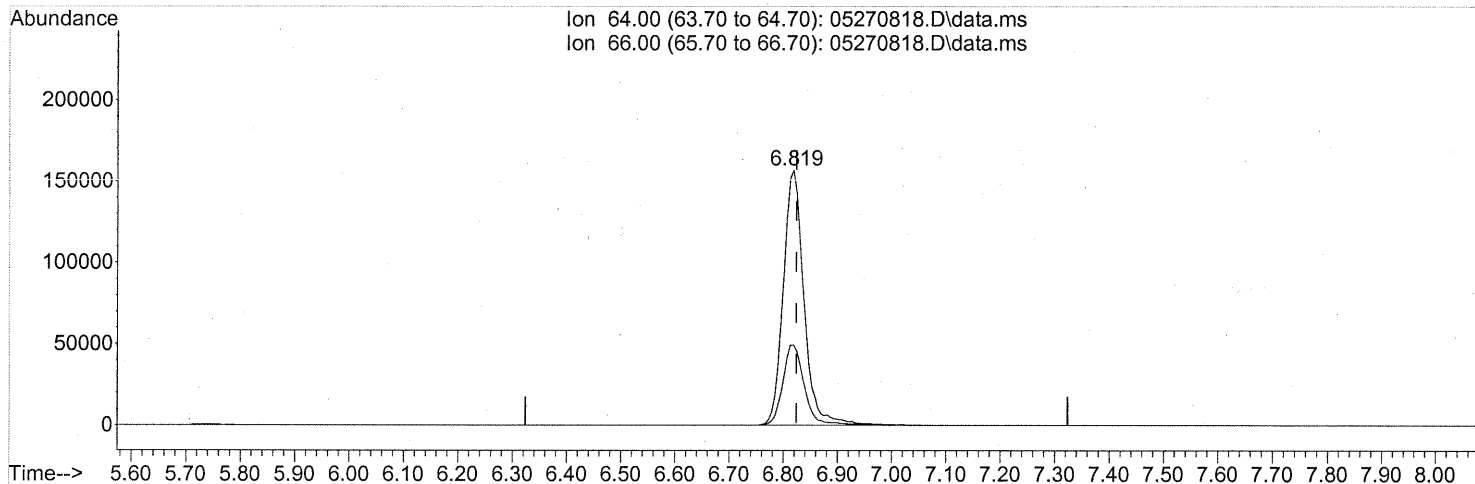
(6) Vinyl Chloride (T)
 5.737min (+0.006) 0.06ng
 response 2971

Ion	Exp%	Act%
62.00	100	100
64.00	29.30	39.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
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 Quant Method : J:\MS13\METHODS\R13052208.M
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TIC: 05270818.D\data.ms

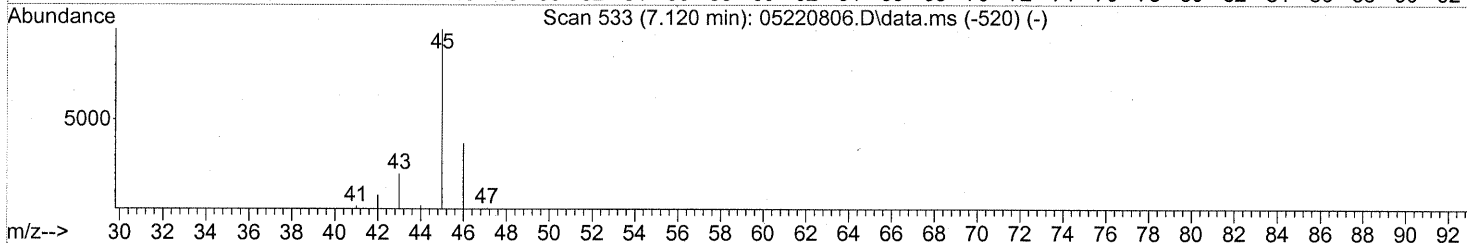
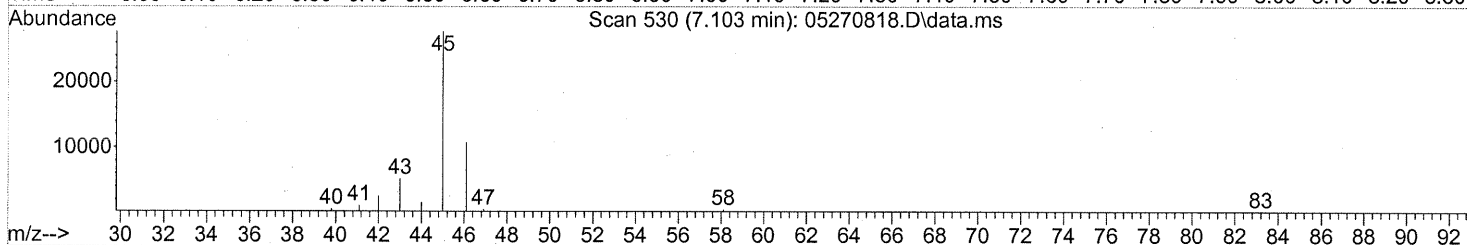
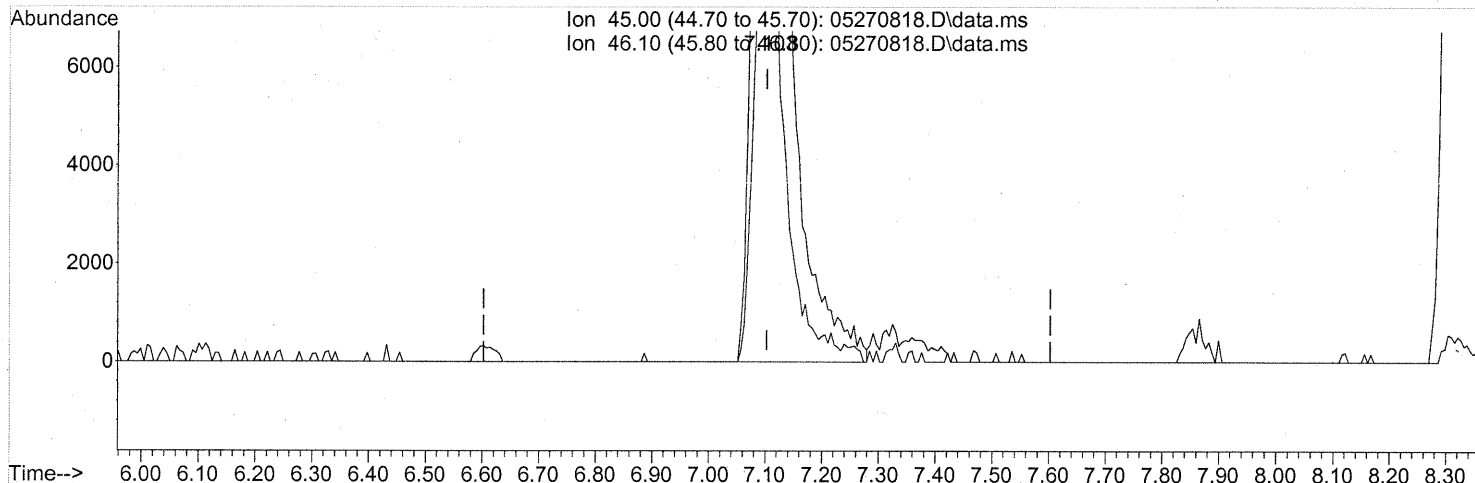
(9) Chloroethane (T)
 6.819min (-0.006) 17.43ng
 response 412618

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	32.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.000) 3.49ng

response 96835

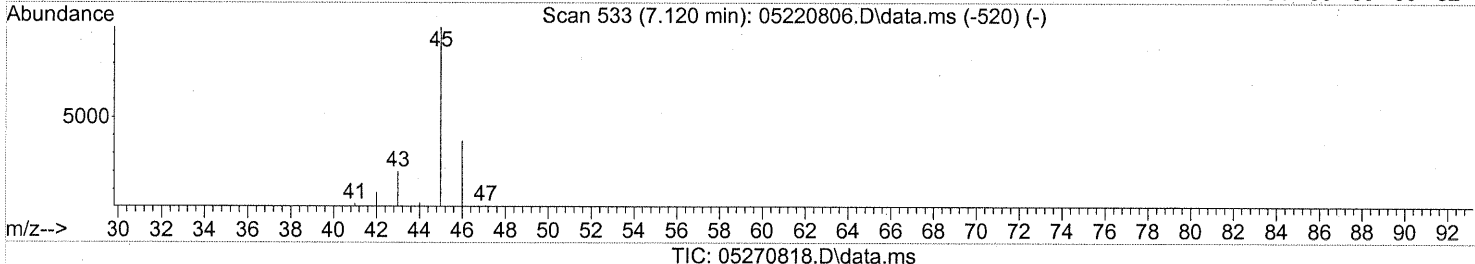
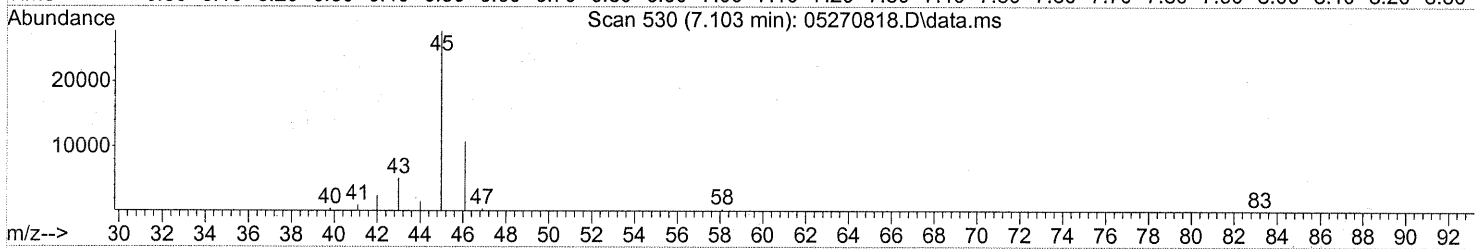
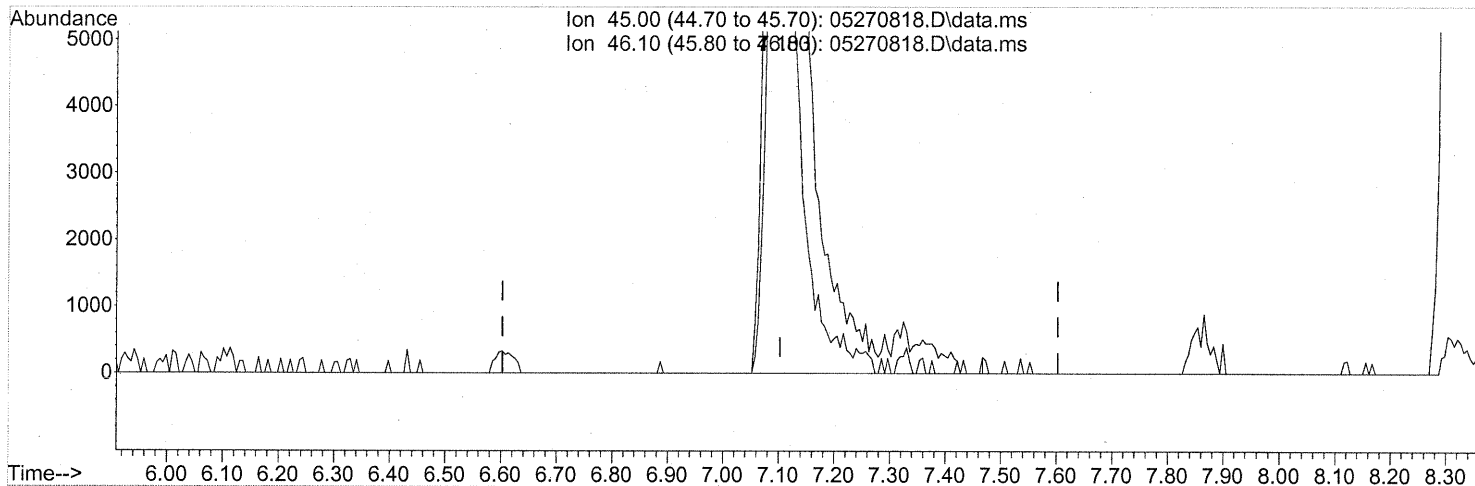
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.000) 3.62ng m

response 100460

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.37
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

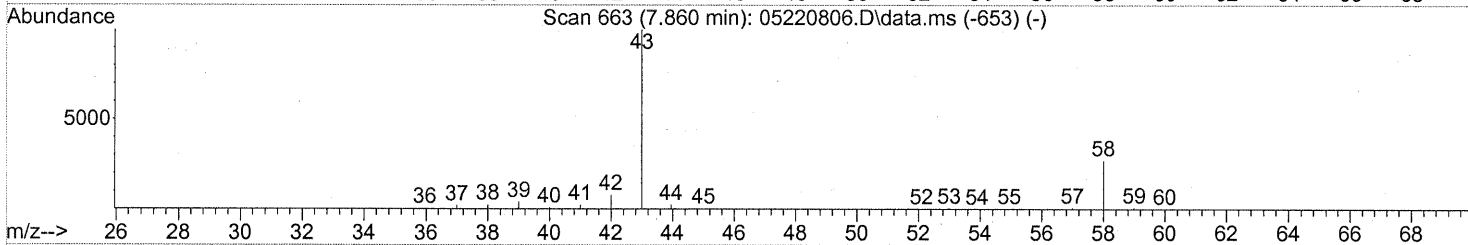
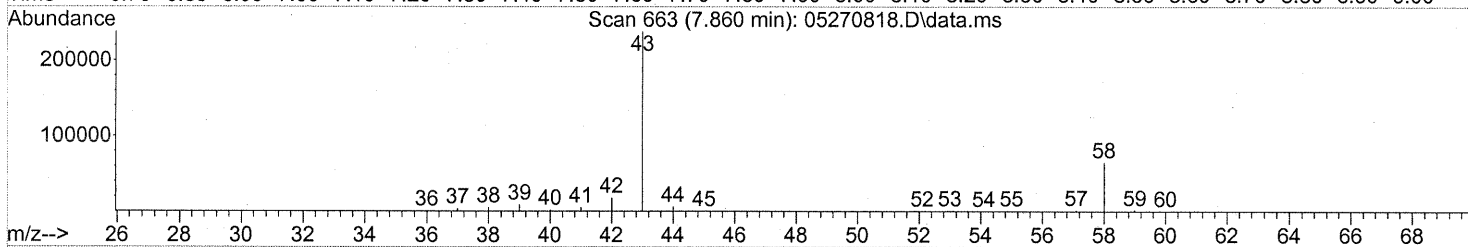
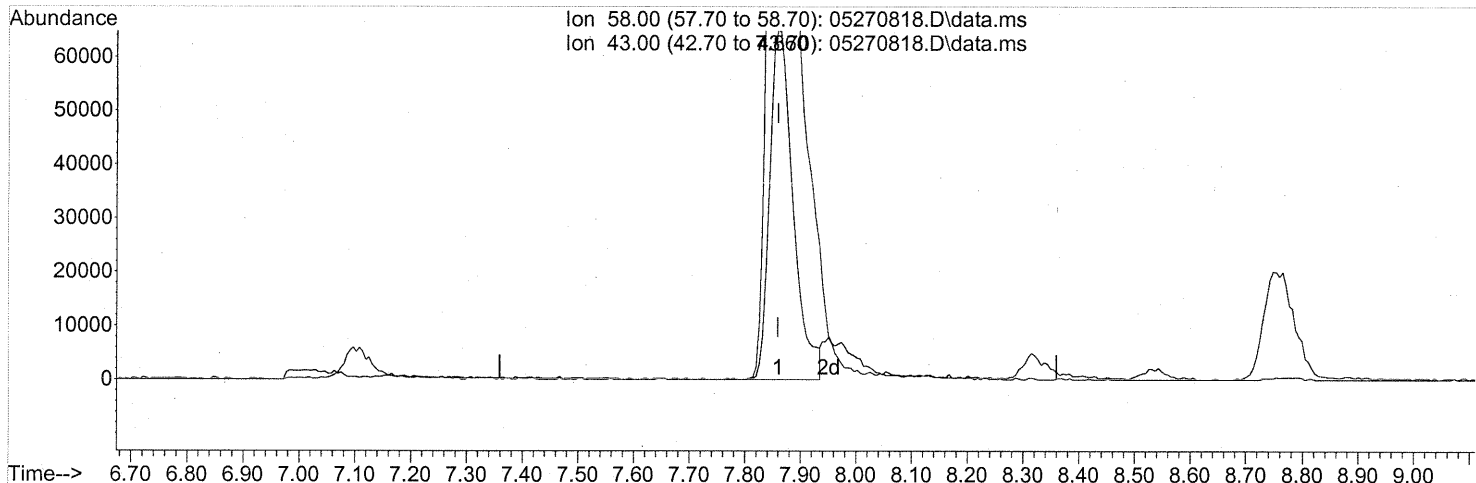
PA 5/31/08

POC/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
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Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(13) Acetone (T)

7.860min (+0.000) 6.71ng

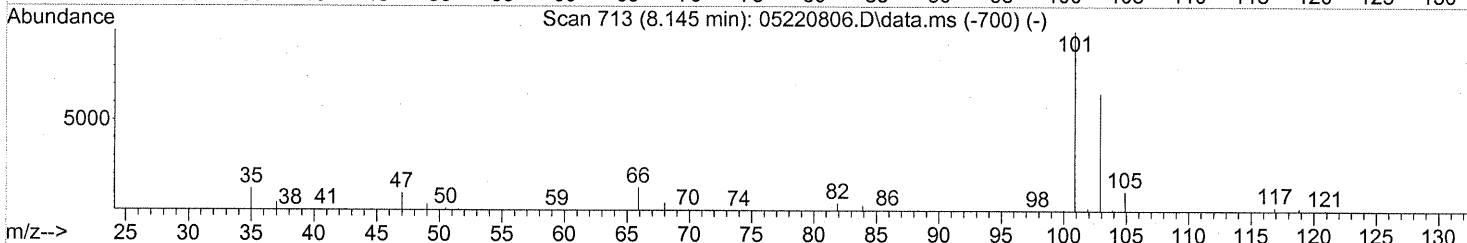
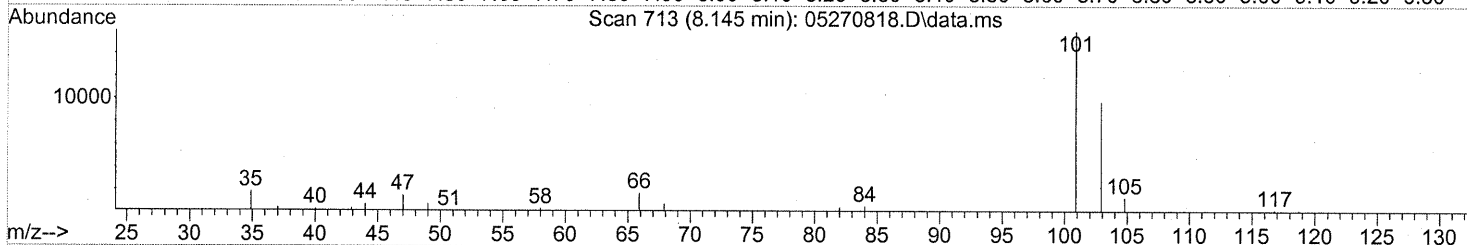
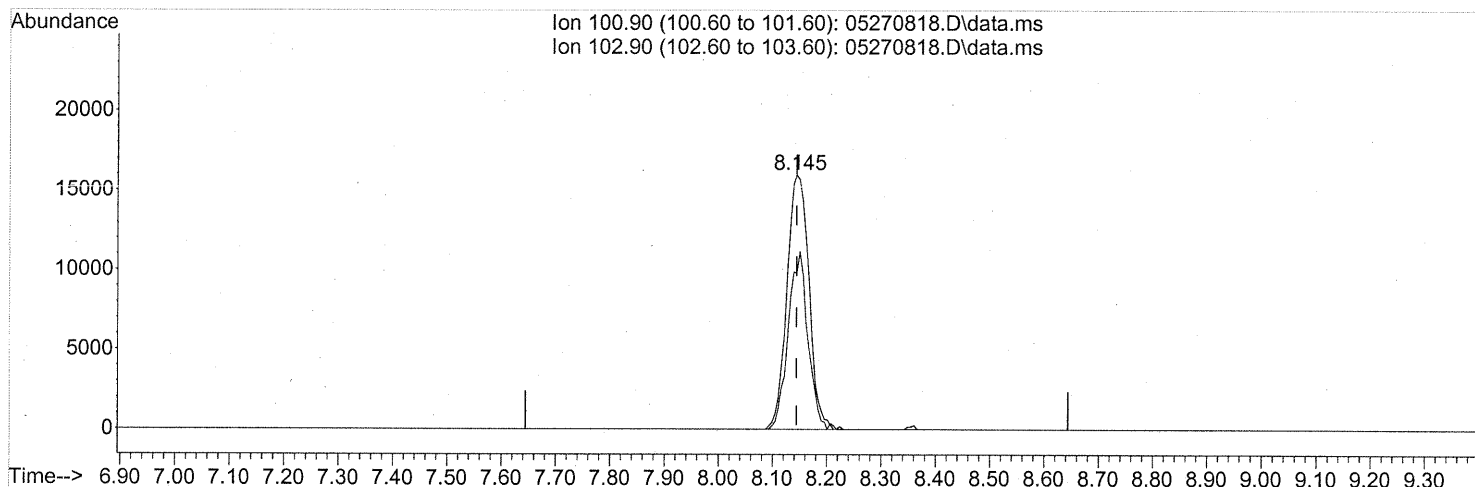
response 190770

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	384.95#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 21:41
Operator : WA
Sample : P0801483-021 (1000ml)
Misc : ENSR SG16B-05 (-3.1, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(14) Trichlorofluoromethane (T)

8.145min (-0.000) 0.68ng

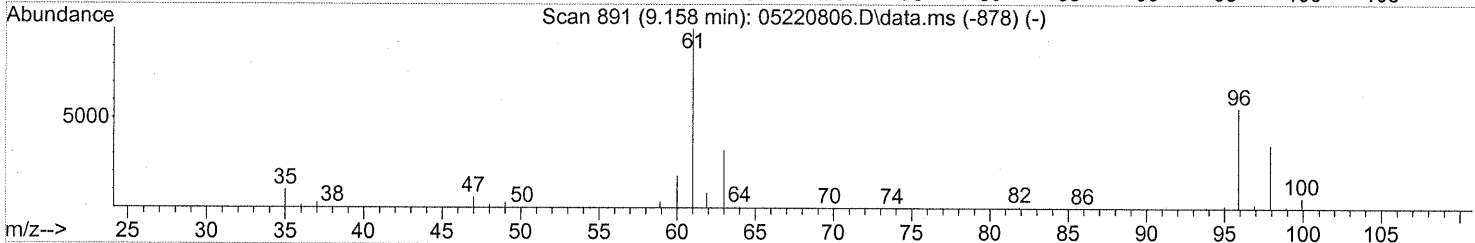
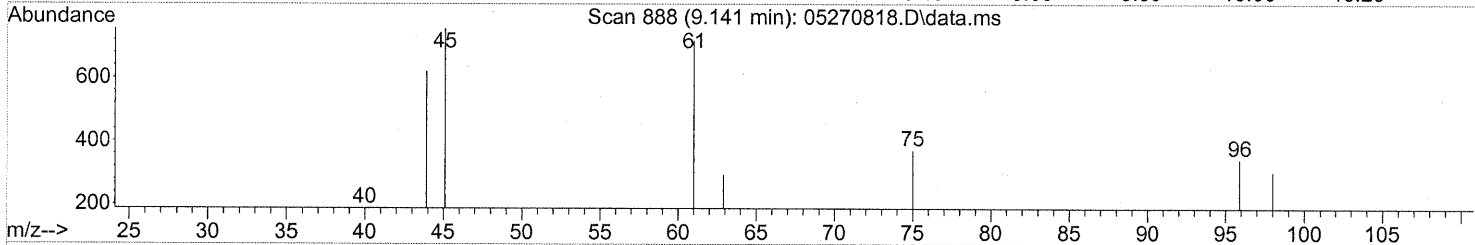
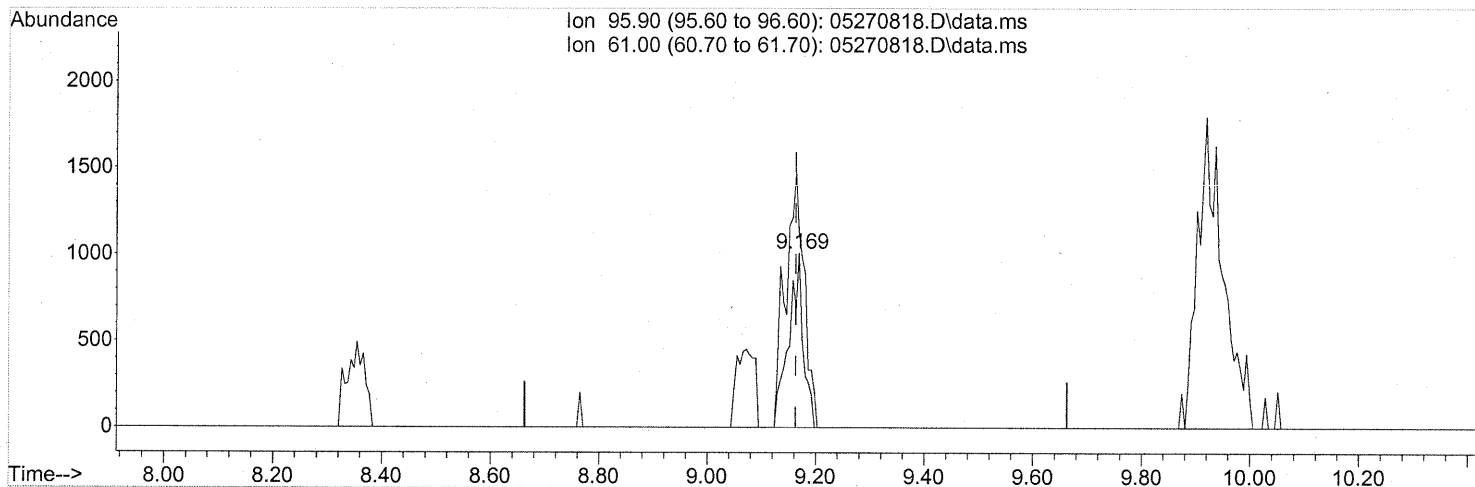
response 44966

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	62.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 21:41
Operator : WA
Sample : P0801483-021 (1000ml)
Misc : ENSR SG16B-05 (-3.1, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(17) 1,1-Dichloroethene (T)

9.169min (+0.006) 0.06ng

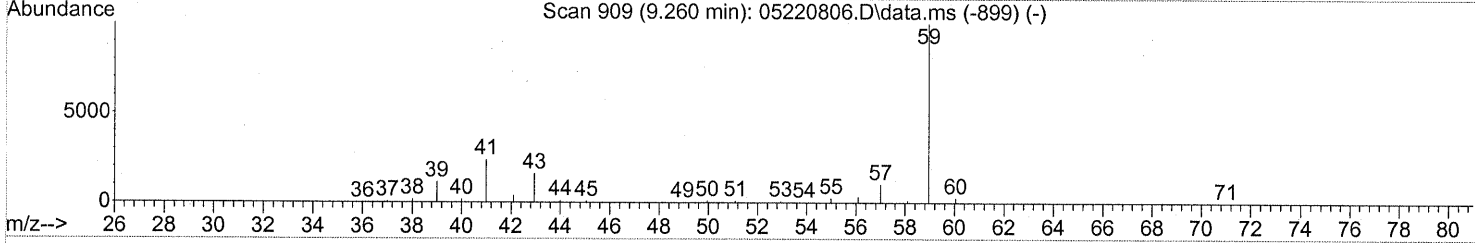
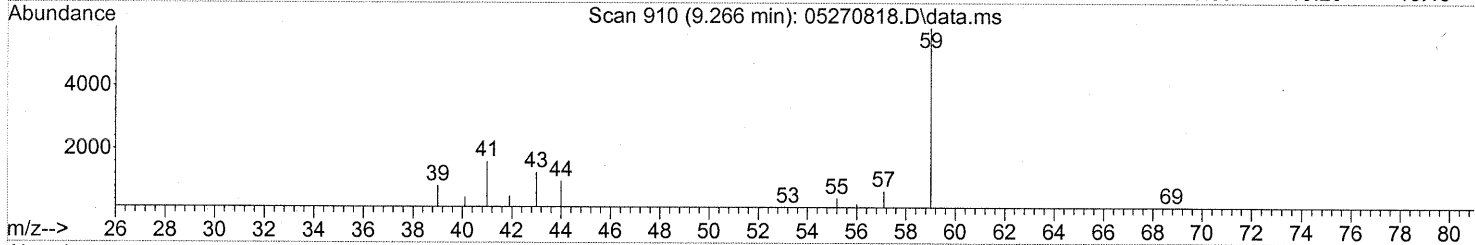
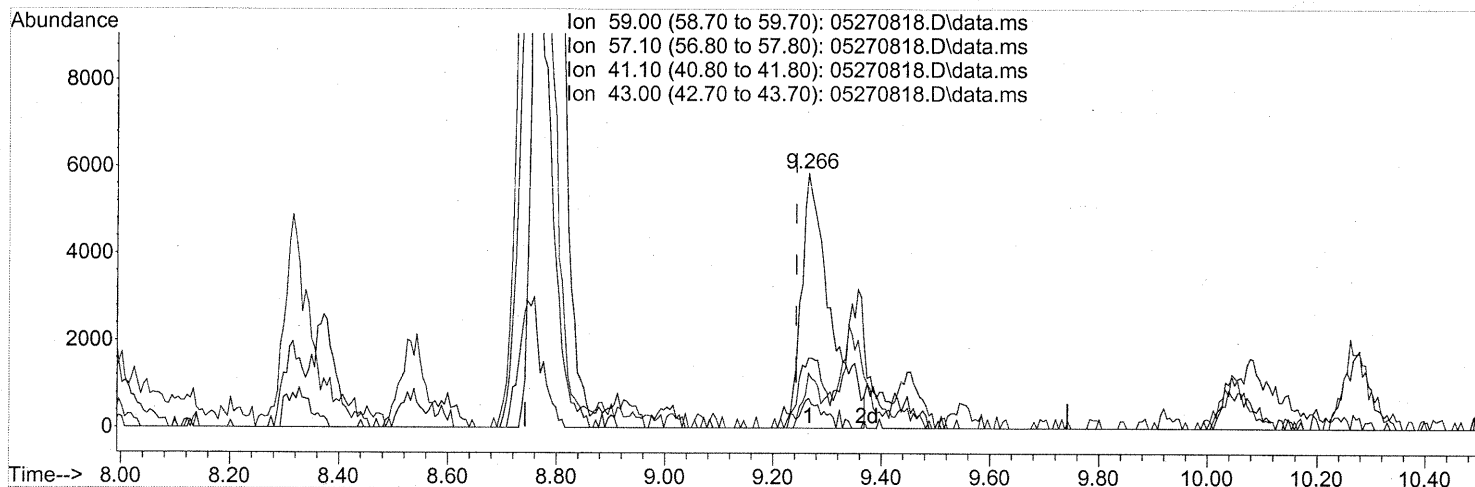
response 1877

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	187.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)
 9.266min (+0.023) 0.28ng
 response 21660

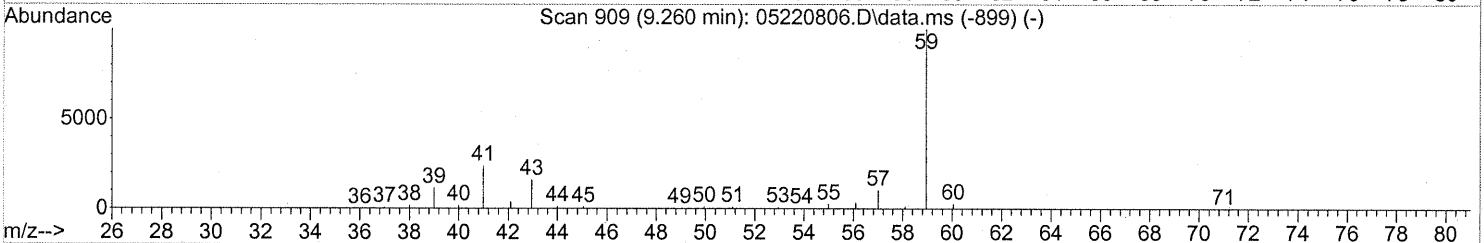
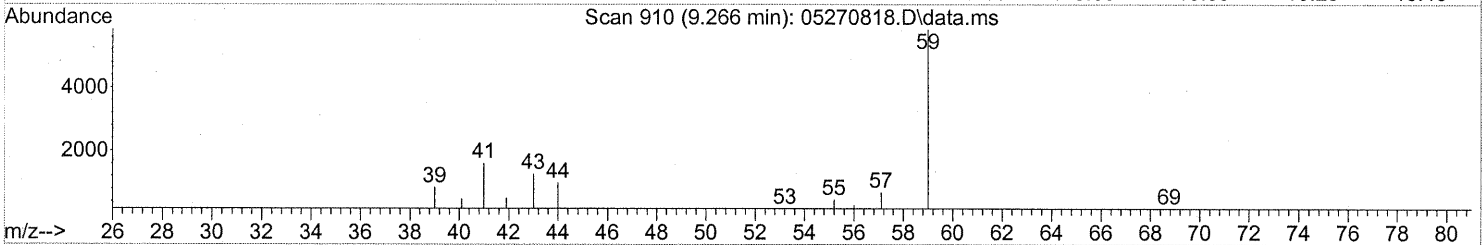
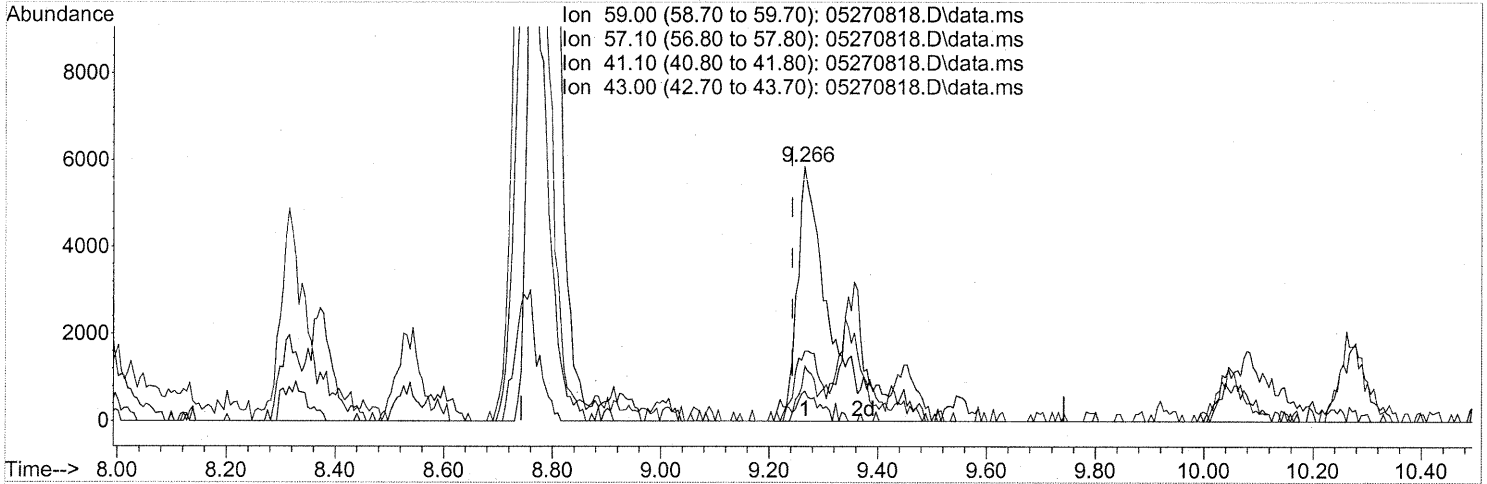
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	8.42
41.10	20.10	22.99
43.00	12.30	16.83

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (+0.023) 0.33ng m

response 25805

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	7.07
41.10	20.10	19.30
43.00	12.30	14.13

int. whole peaks

WA 5/28/08

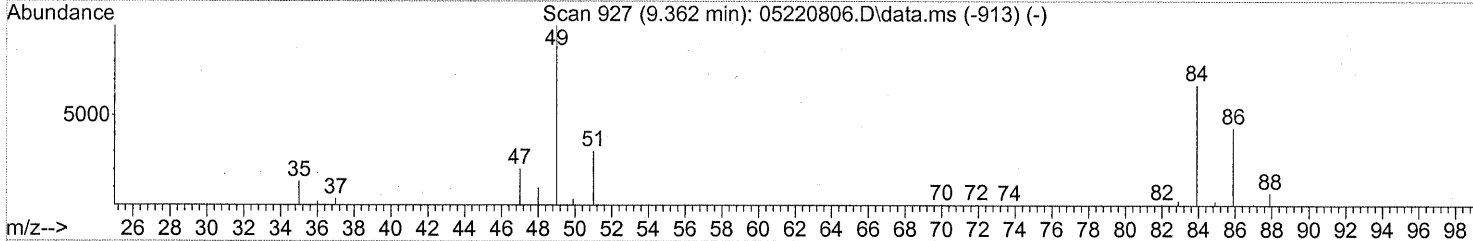
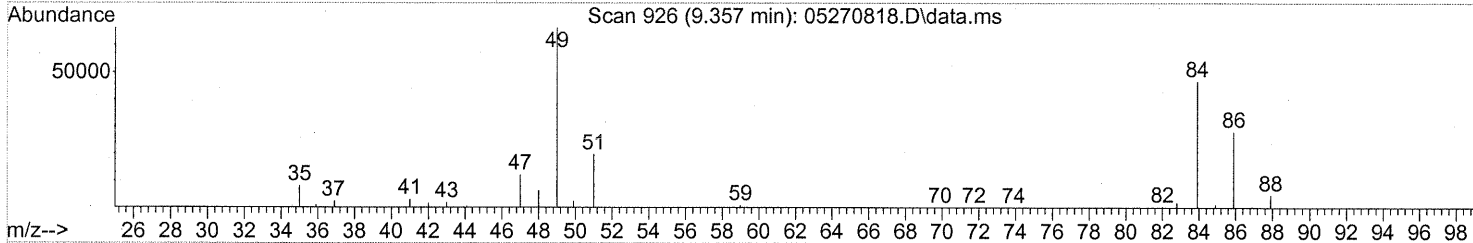
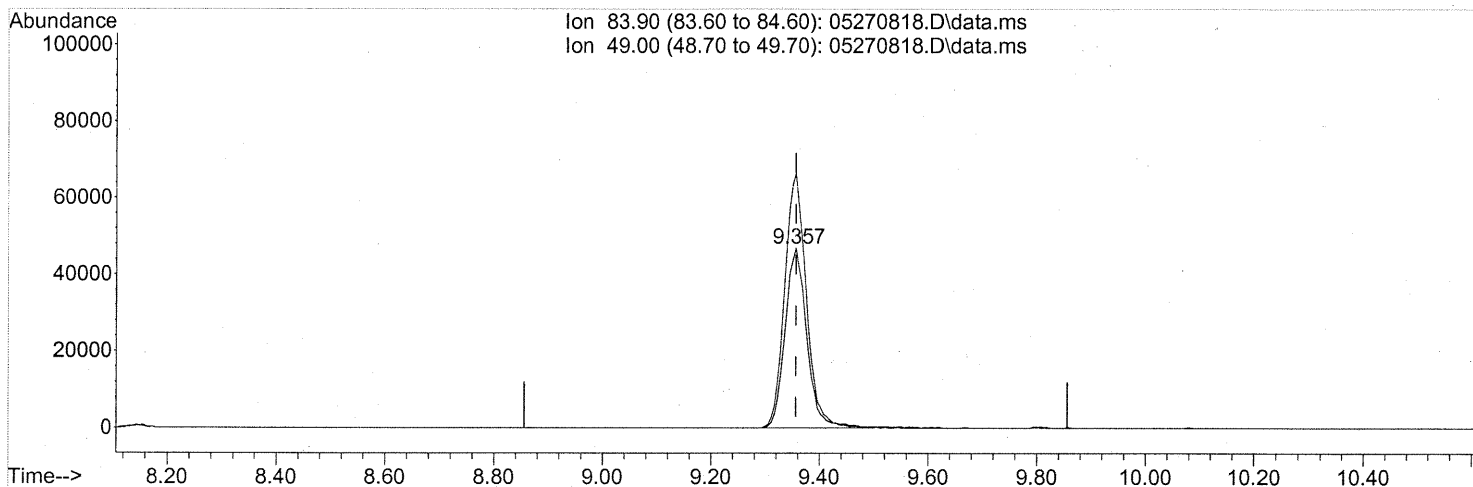
P0801483-021

901

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(19) Methylene Chloride (T)

9.357min (-0.000) 4.07ng

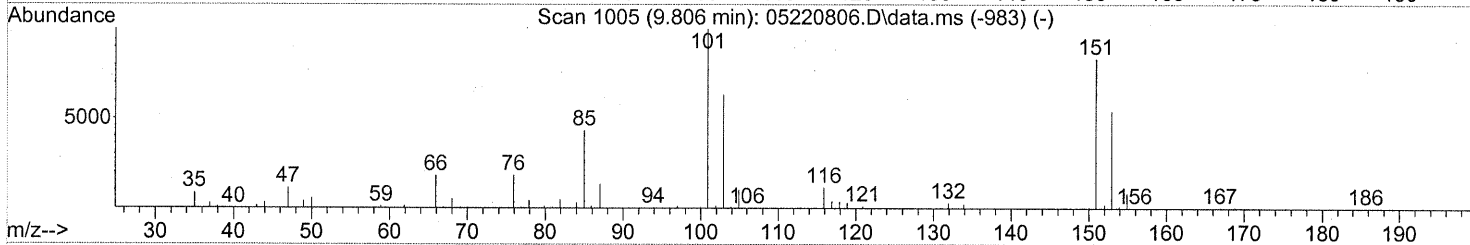
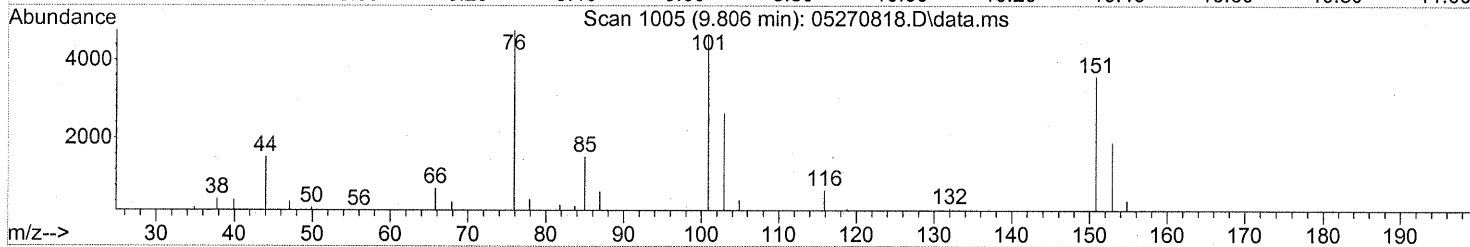
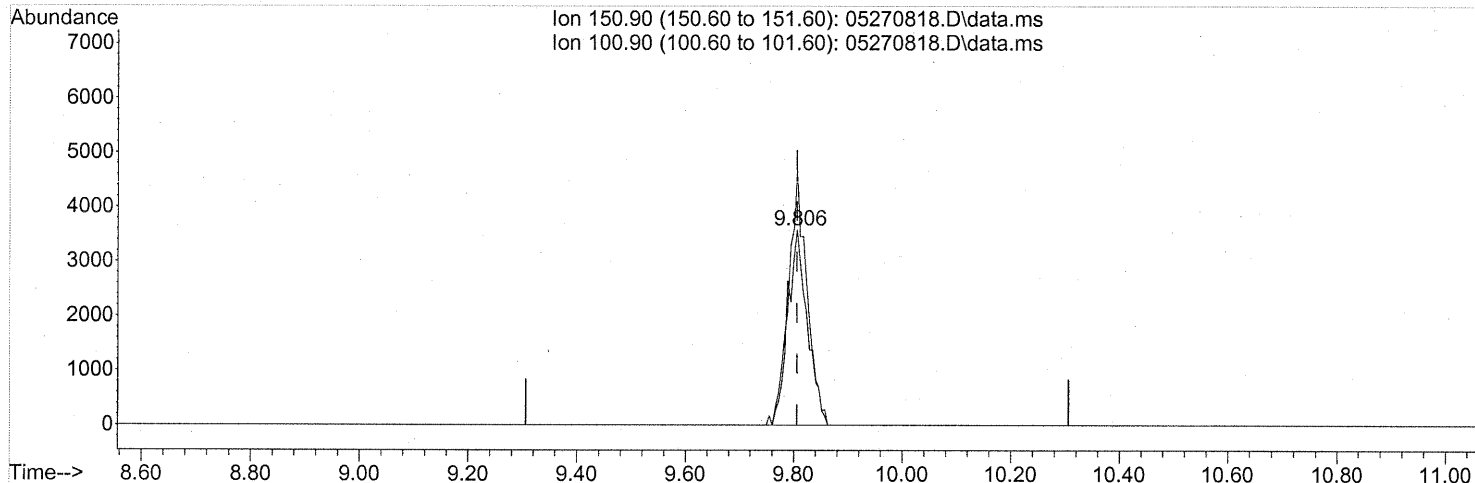
response 129518

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	142.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 21:41
Operator : WA
Sample : P0801483-021 (1000ml)
Misc : ENSR SG16B-05 (-3.1, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (-0.000) 0.30ng

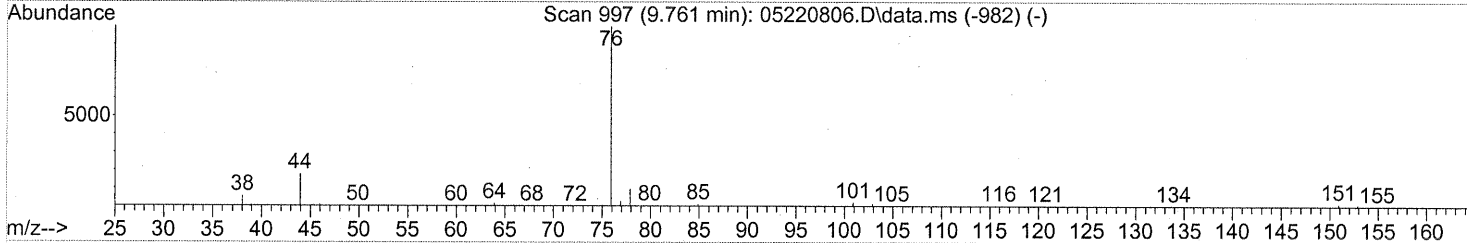
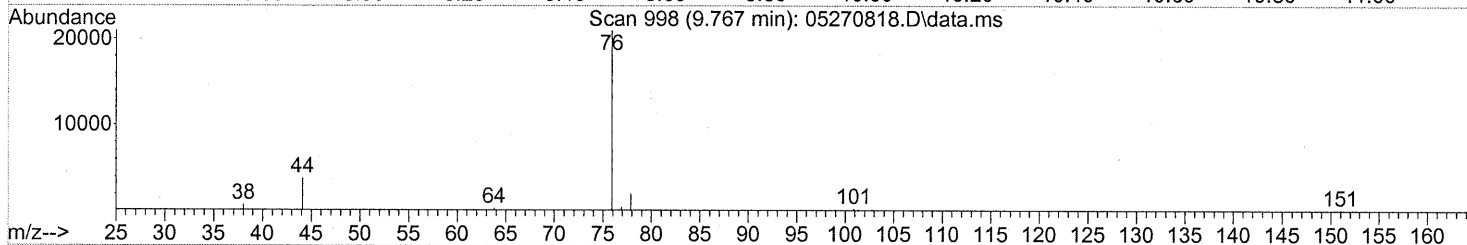
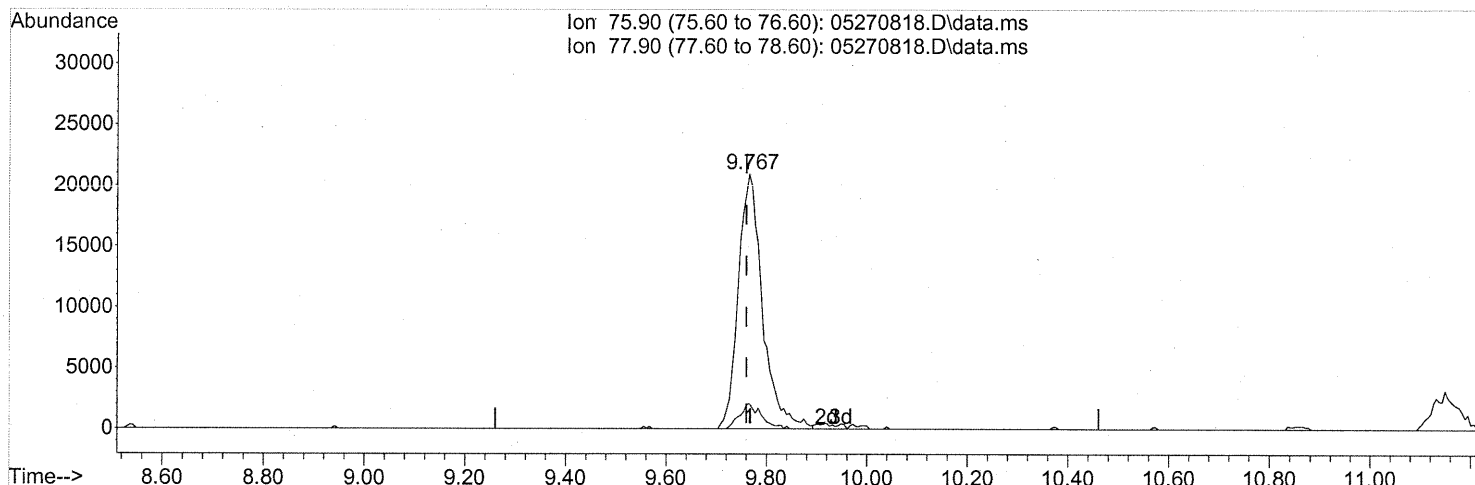
response 9021

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	121.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(22) Carbon Disulfide (T)

9.767min (+0.006) 0.58ng

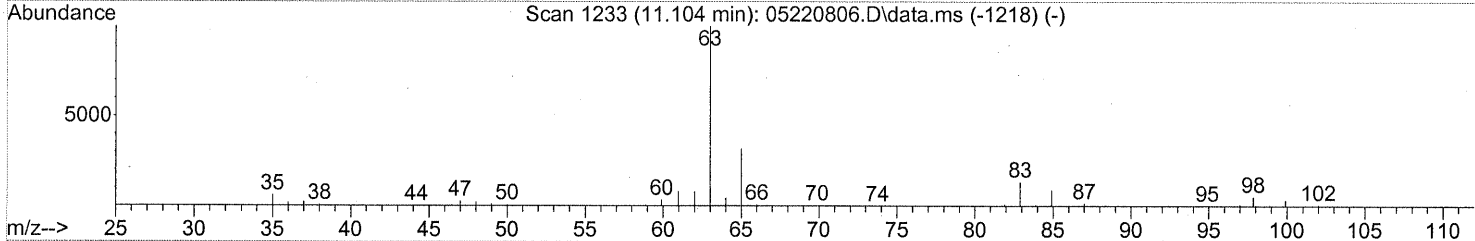
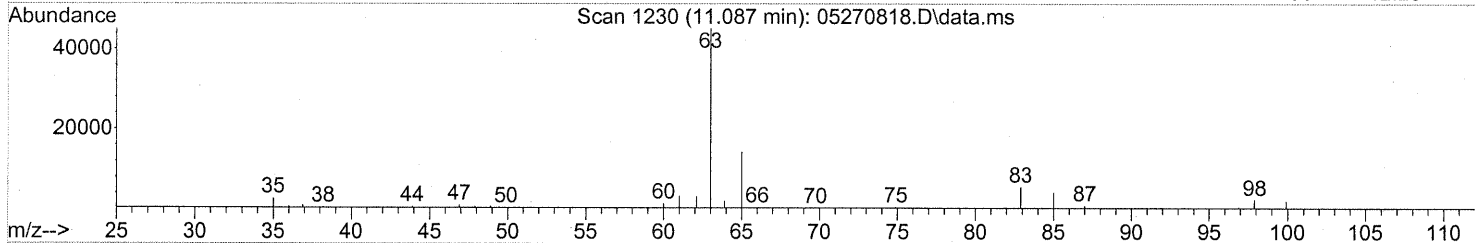
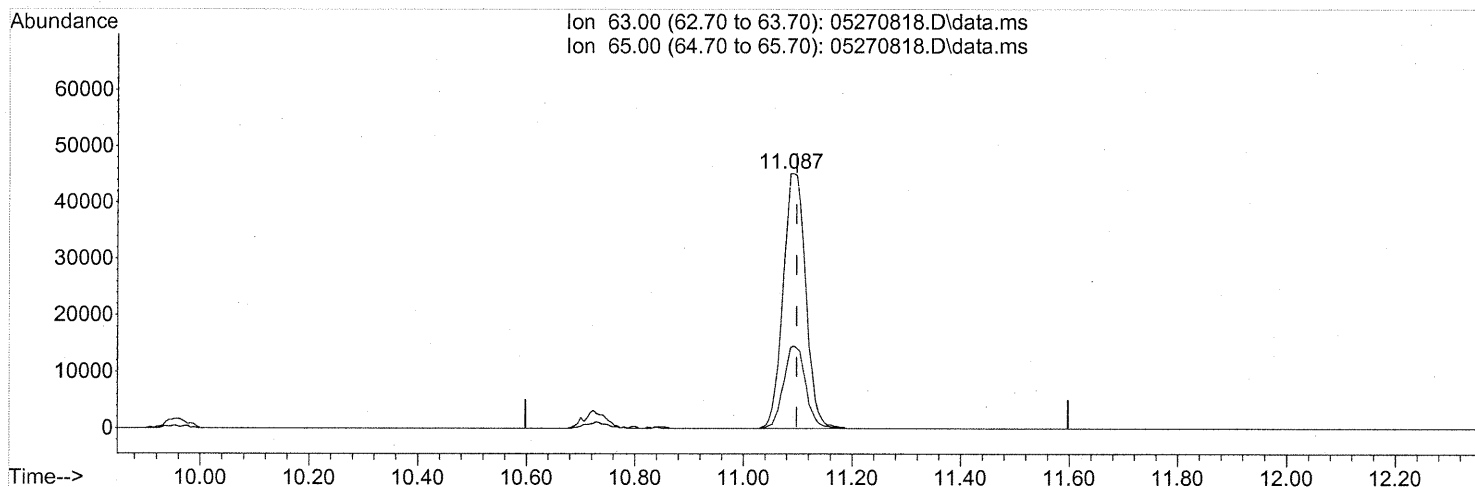
response 69431

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 21:41
Operator : WA
Sample : P0801483-021 (1000ml)
Misc : ENSR SG16B-05 (-3.1, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(24) 1,1-Dichloroethane (T)

11.087min (-0.011) 2.35ng

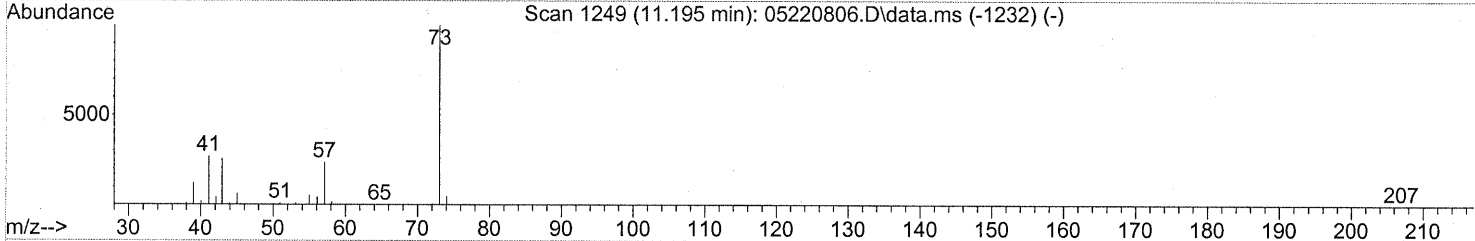
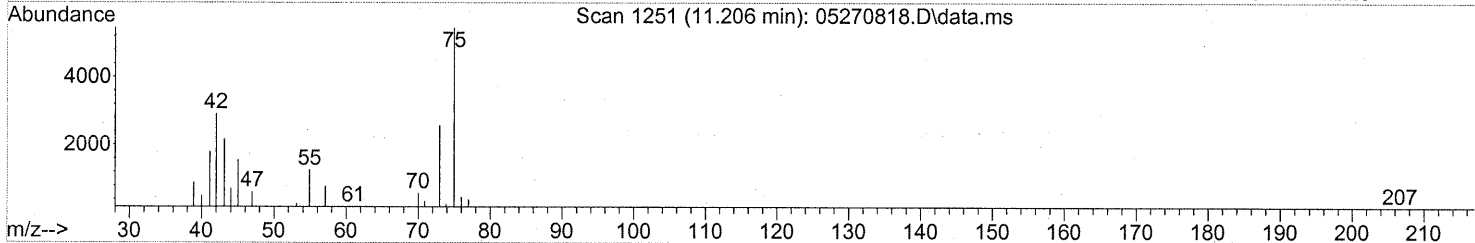
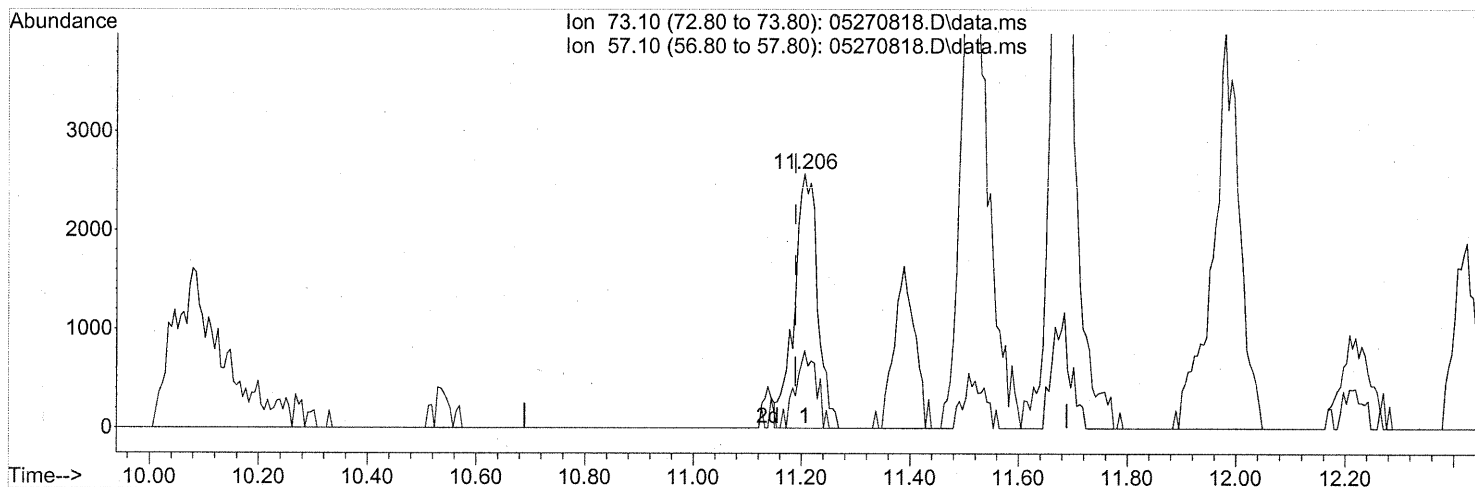
response 129751

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	31.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.206min (+0.017) 0.08ng

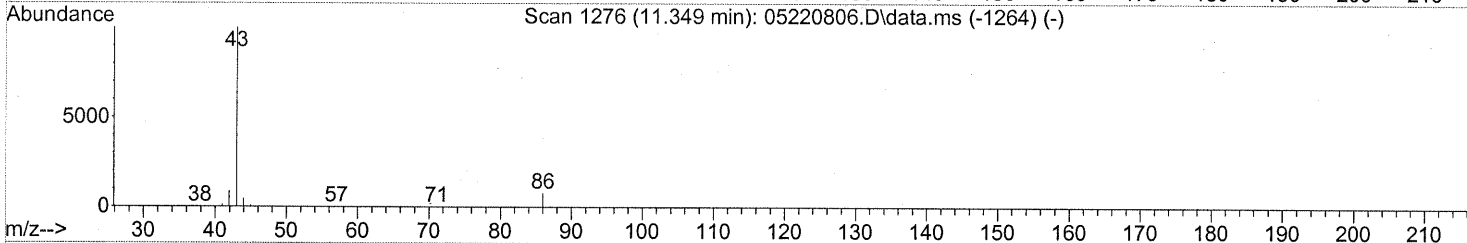
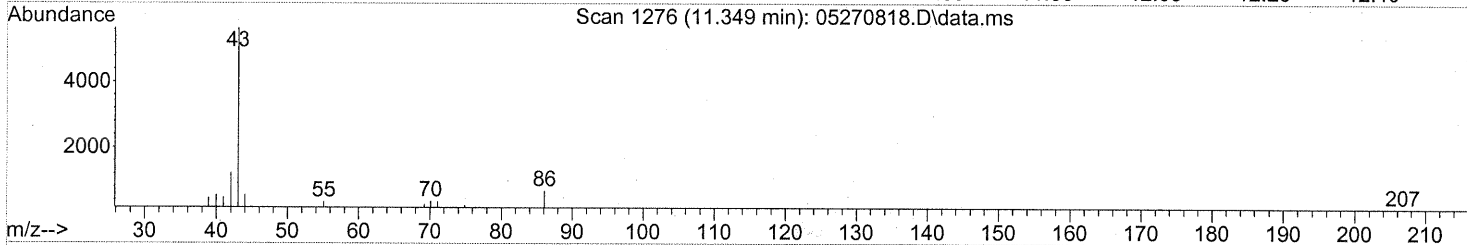
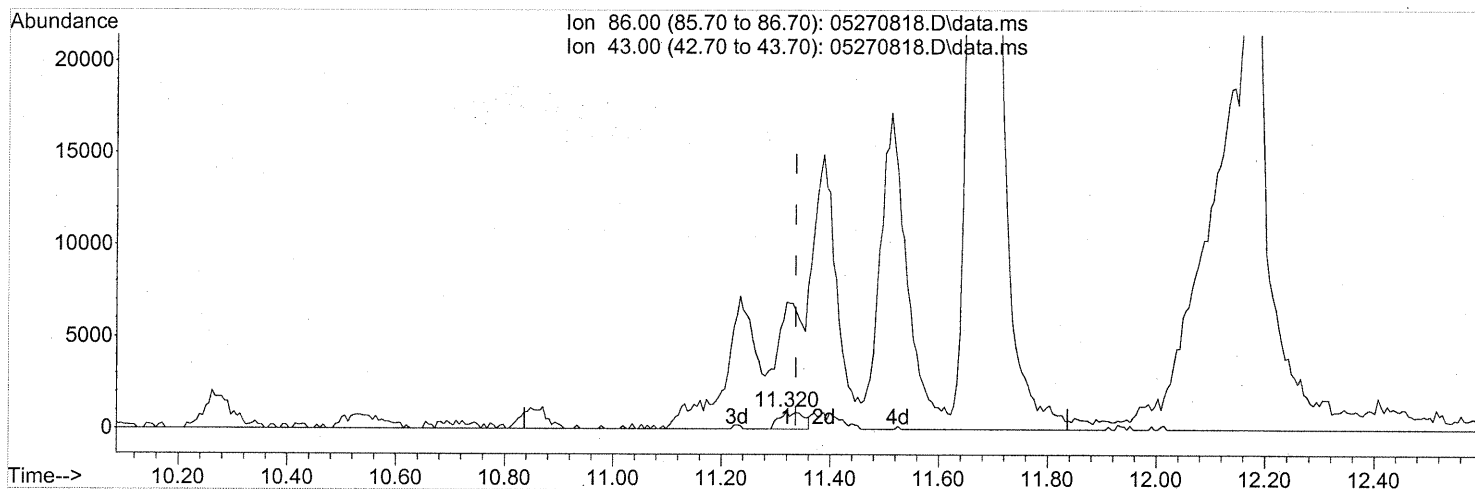
response 7700

Ion	Exp%	Act%
73.10	100	100
57.10	31.40	27.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 21:41
Operator : WA
Sample : P0801483-021 (1000ml)
Misc : ENSR SG16B-05 (-3.1, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(26) Vinyl Acetate (T)

11.320min (-0.017) 0.54ng

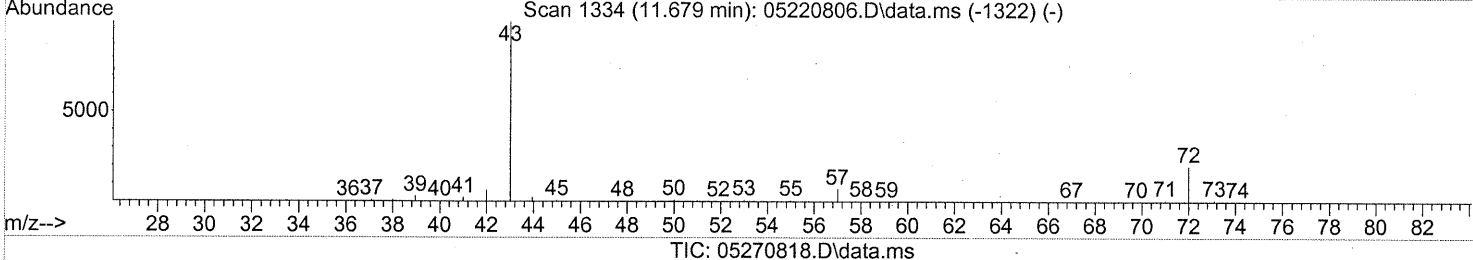
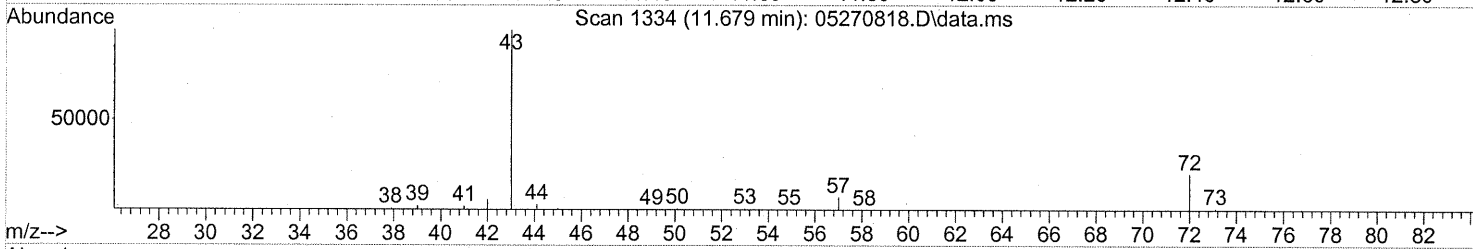
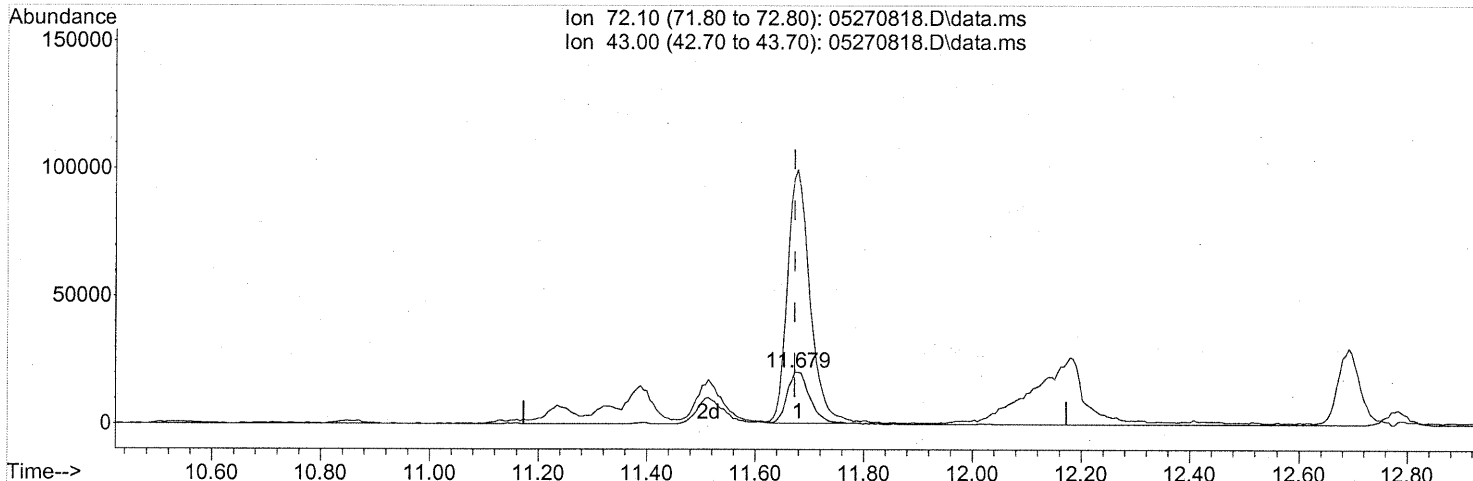
response 2818

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	686.87#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.679min (+0.006) 2.80ng

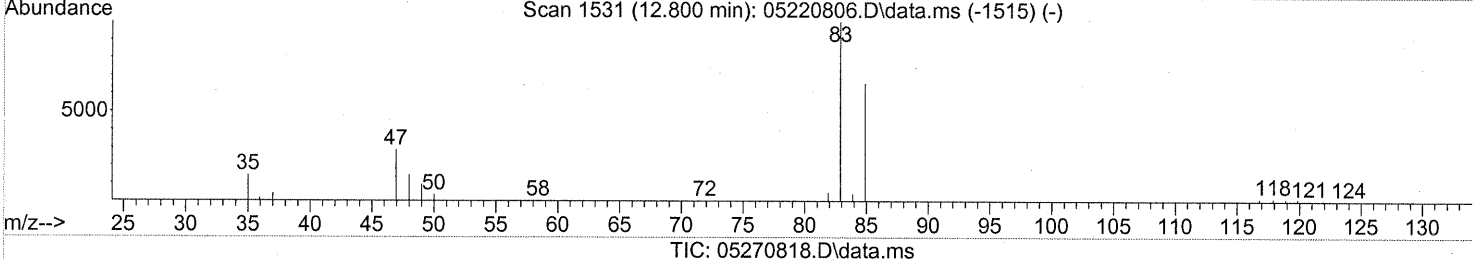
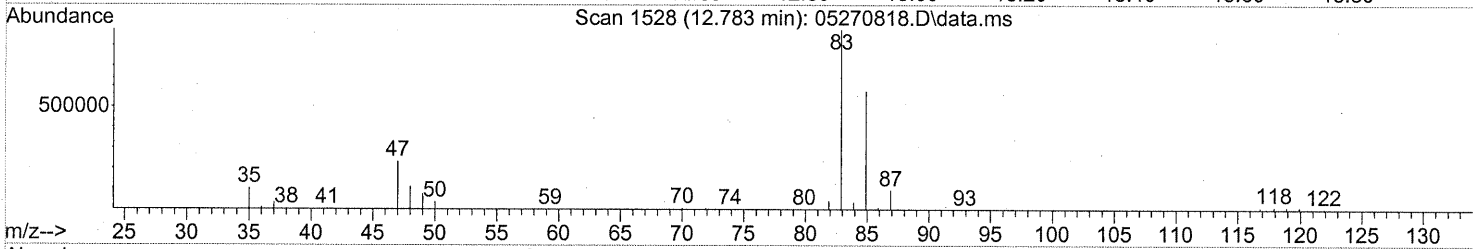
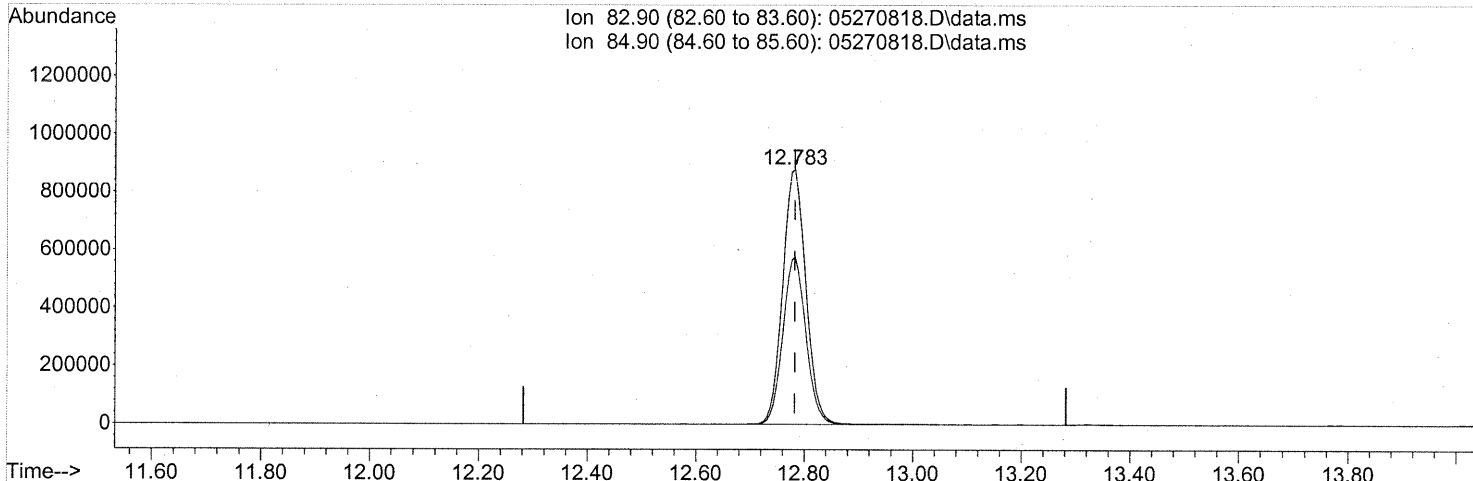
response 58211

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	490.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



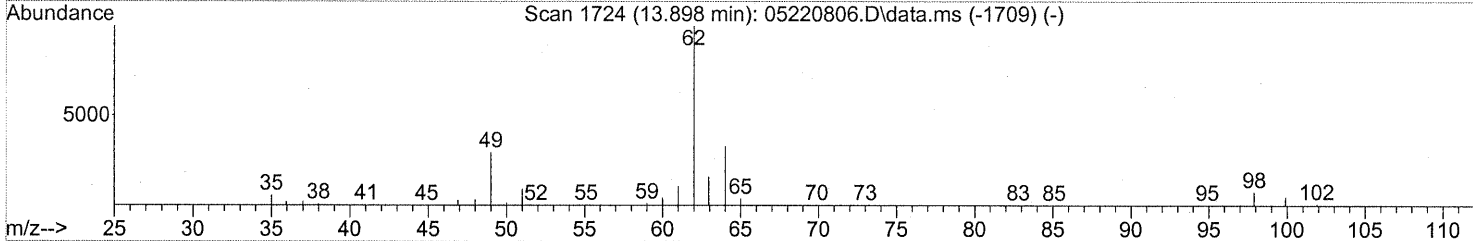
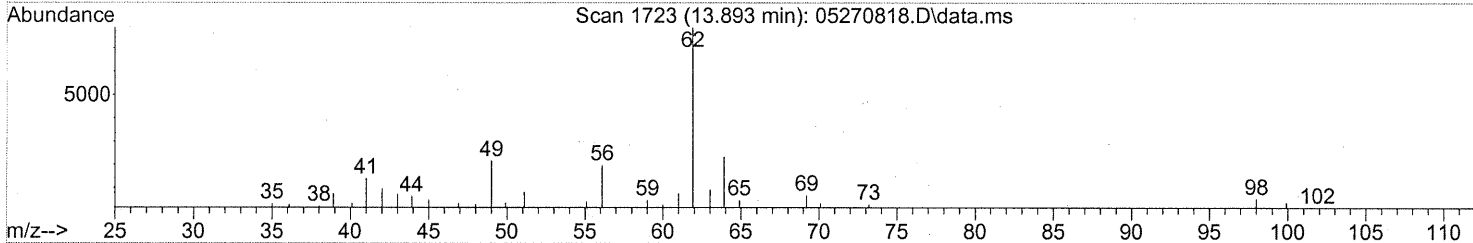
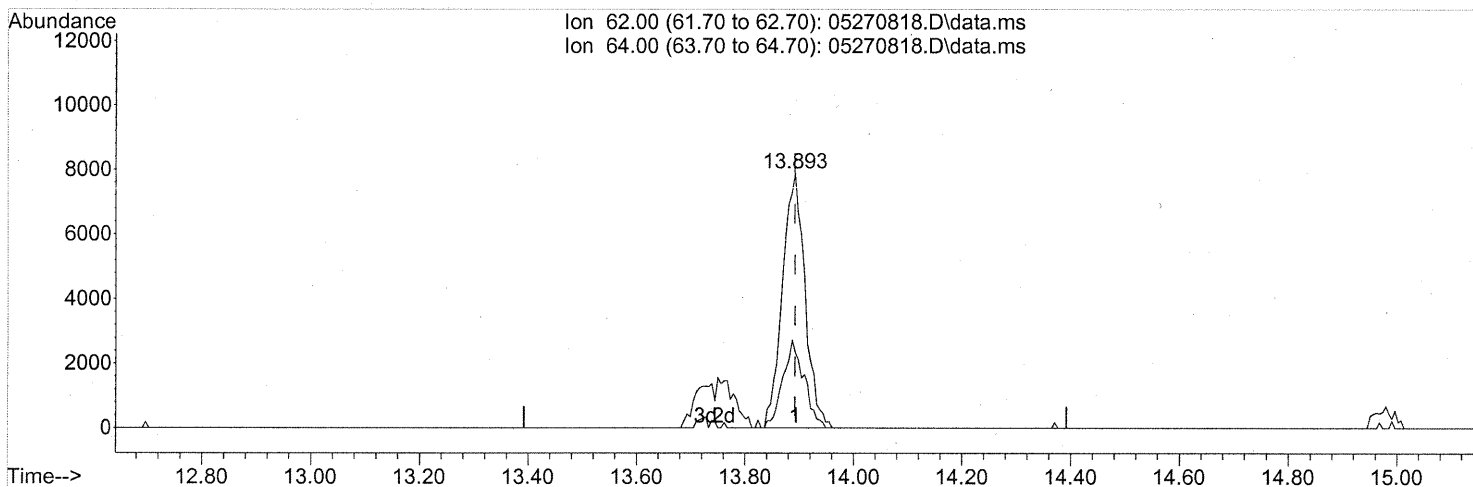
(32) Chloroform (T)
 12.783min (0.000) 53.61ng
 response 2583272

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(36) 1,2-Dichloroethane (T)

13.893min (0.000) 0.49ng

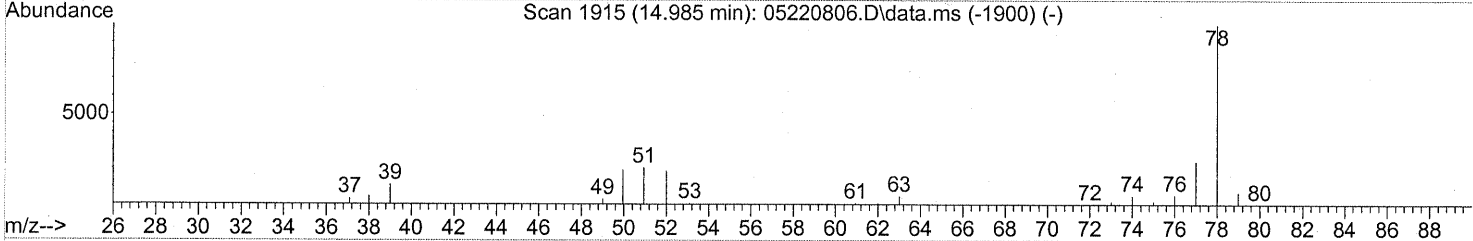
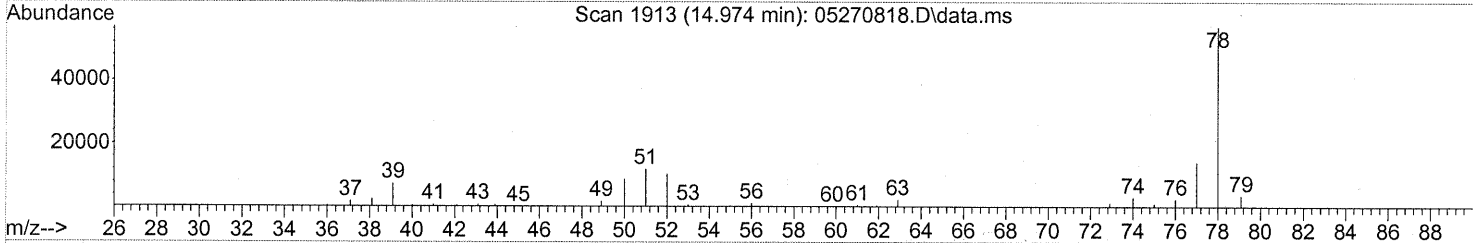
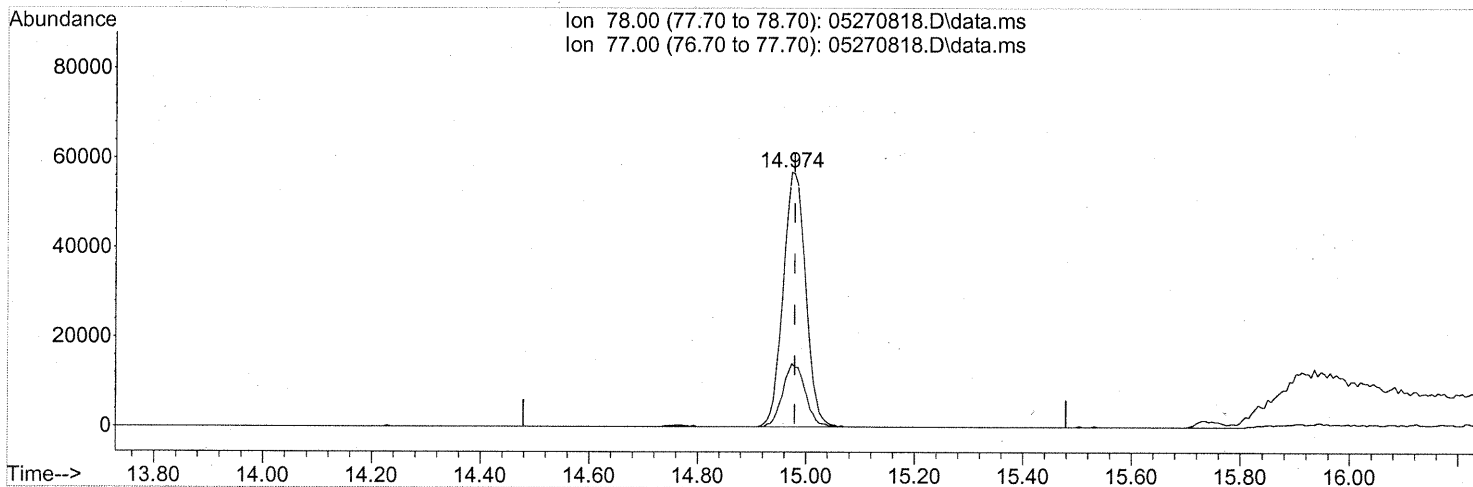
response 22813

Ion	Exp%	Act%
62.00	100	100
64.00	30.90	32.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 21:41
Operator : WA
Sample : P0801483-021 (1000ml)
Misc : ENSR SG16B-05 (-3.1, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



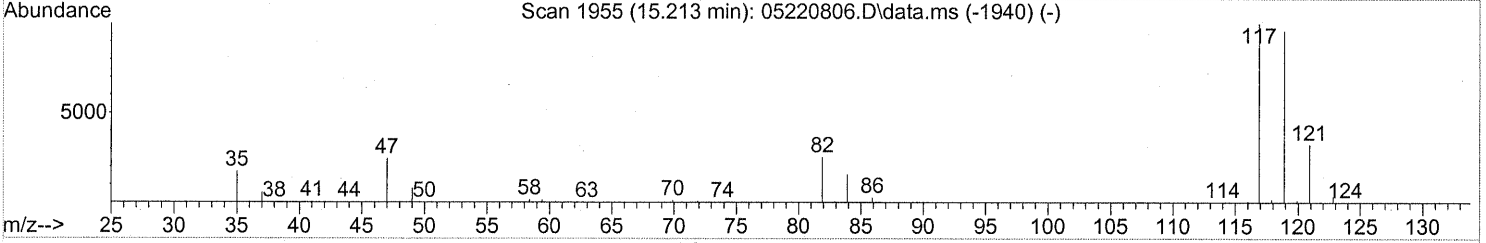
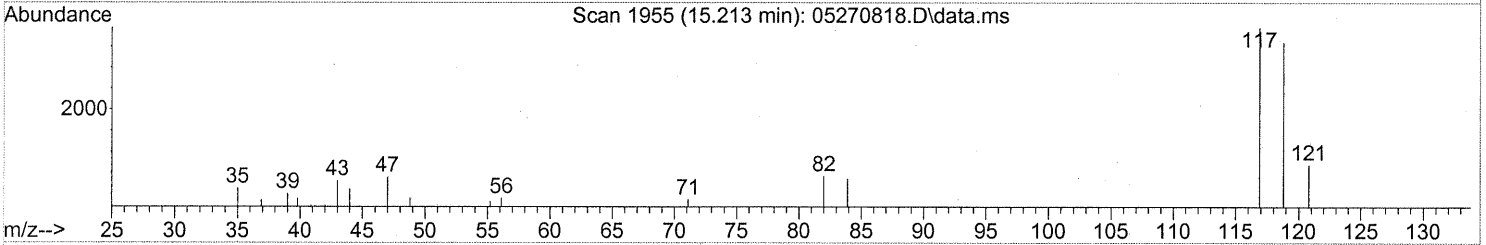
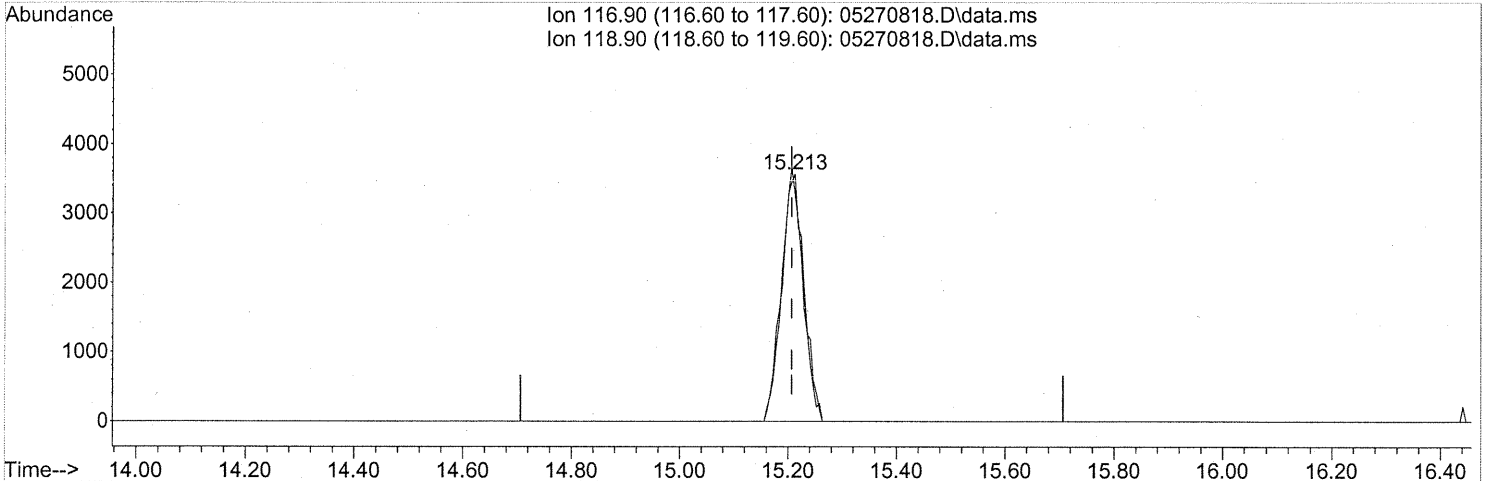
(41) Benzene (T)
14.974min (-0.006) 1.40ng
response 164052

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.22ng

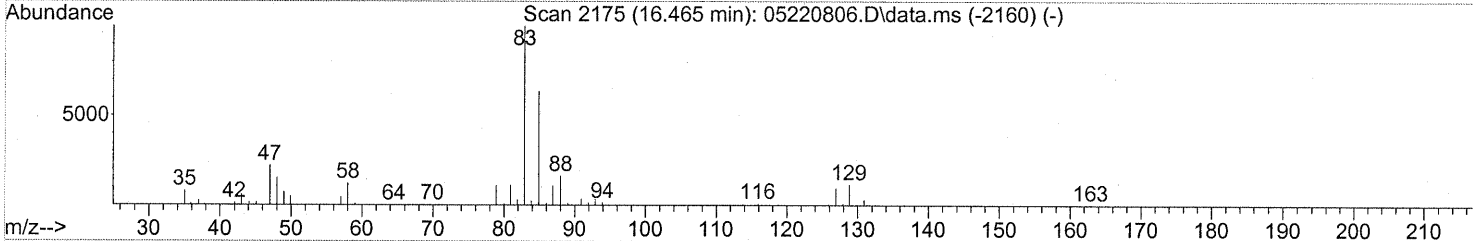
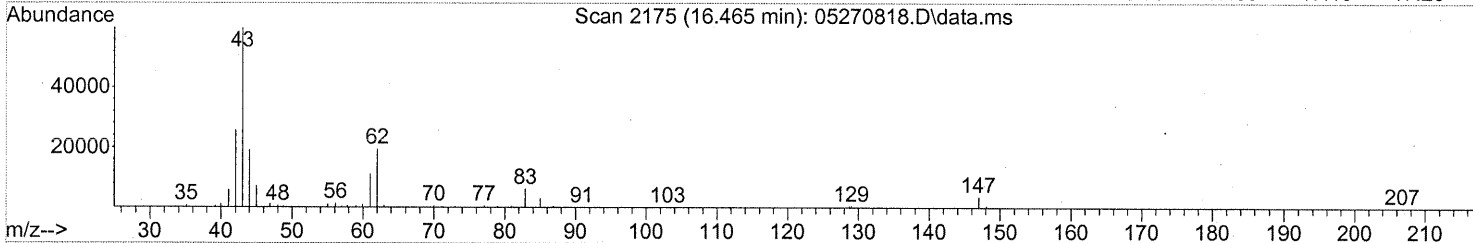
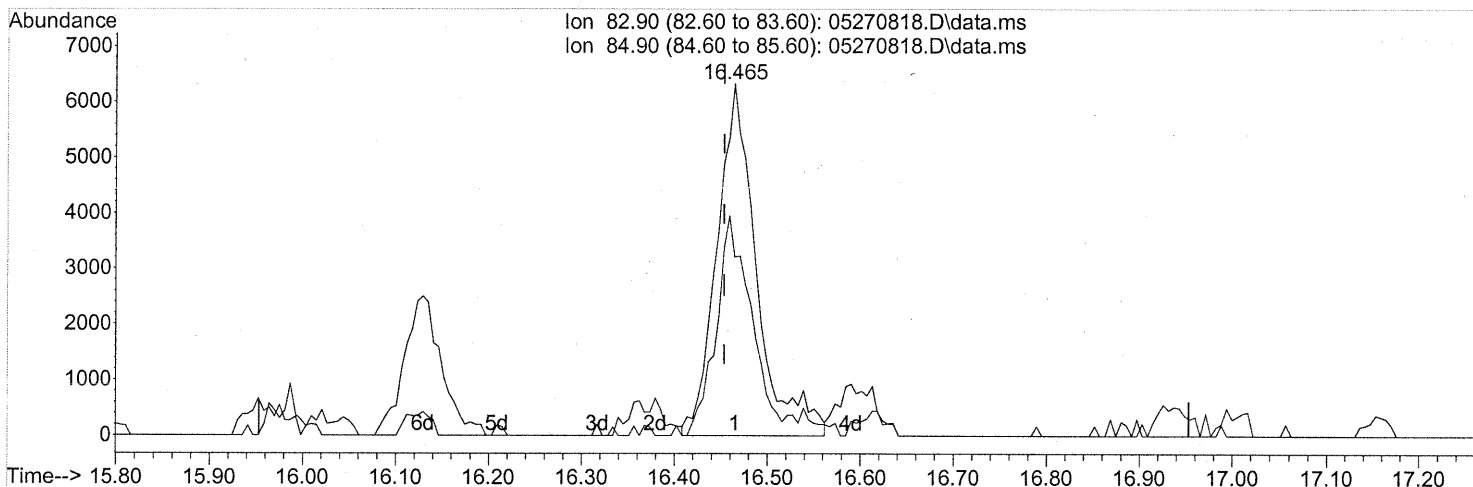
response 10083

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	98.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.47ng

response 18668

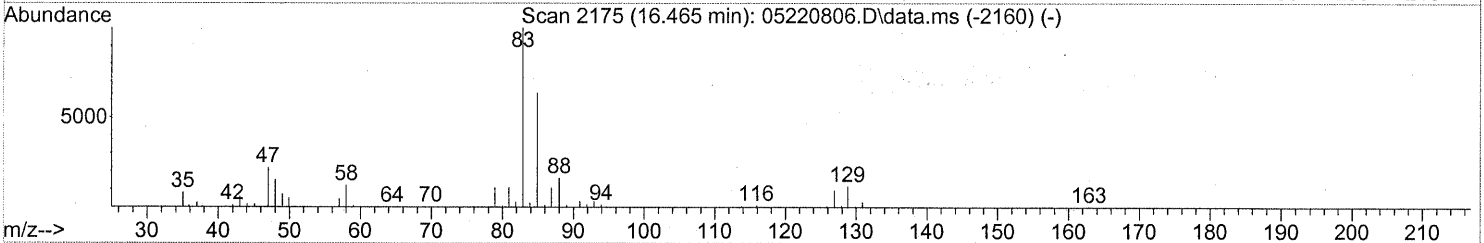
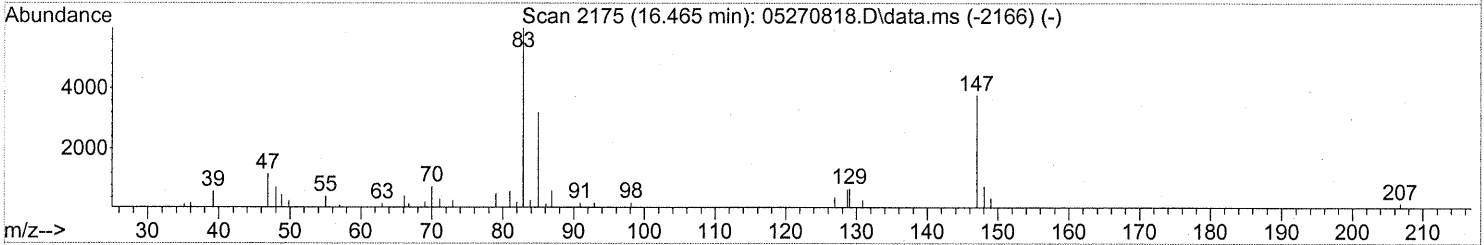
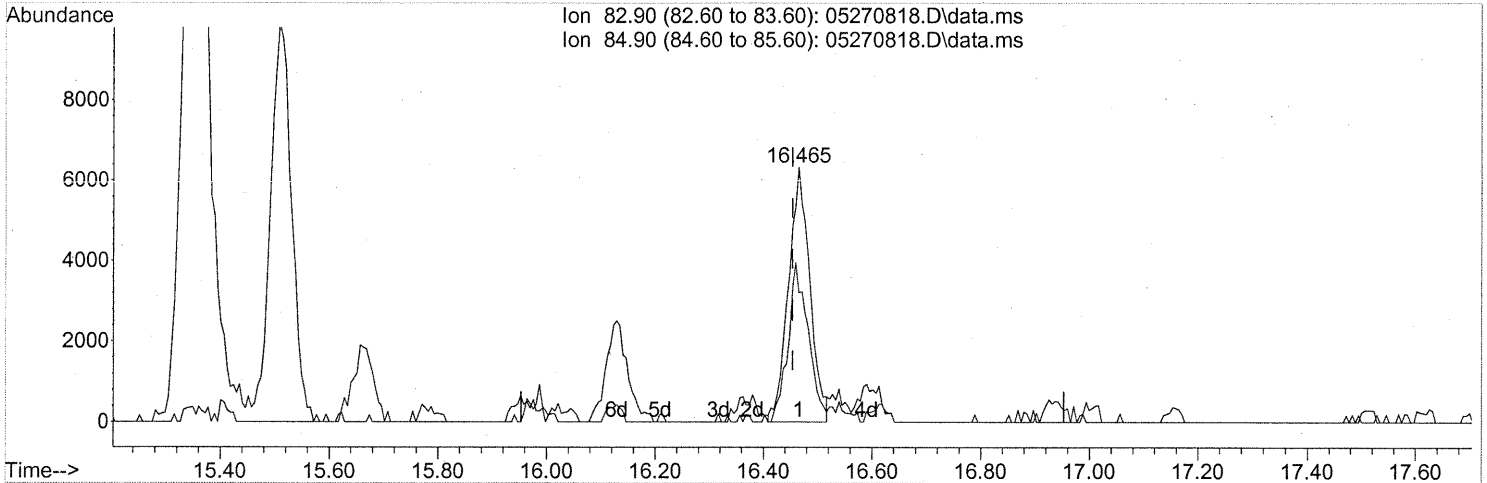
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	56.60
0.00	0.00	0.00
0.00	0.00	0.00

scaling & before substr.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(46) Bromodichloromethane (T)

16.465min (+0.011) 0.44ng m

response 17272

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	61.17
0.00	0.00	0.00
0.00	0.00	0.00

10% tailing & after substv.

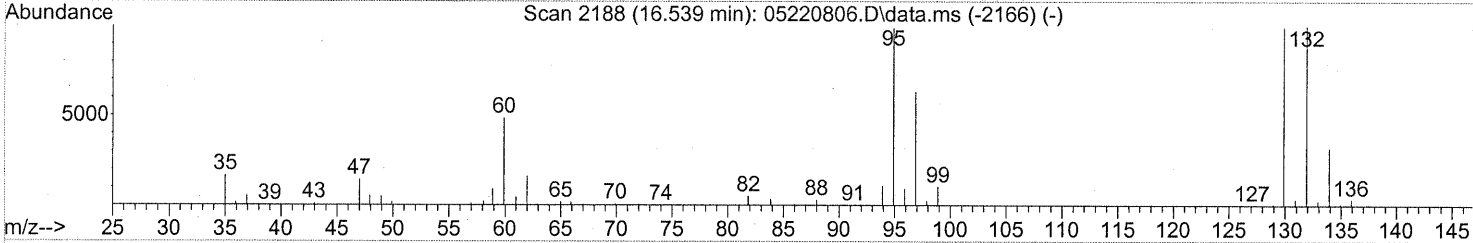
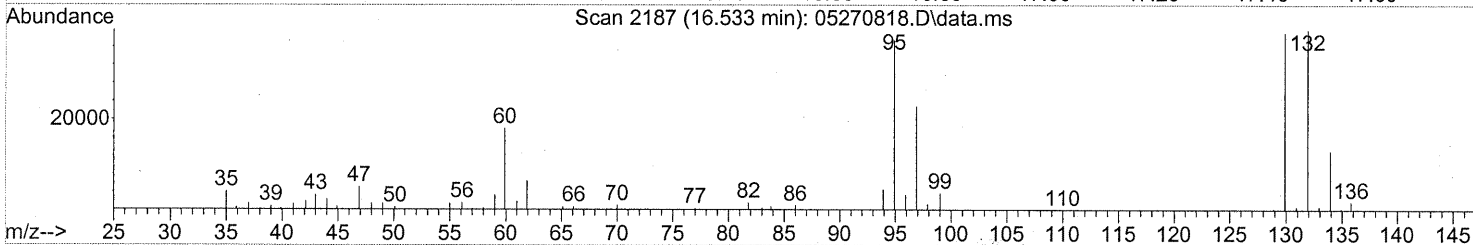
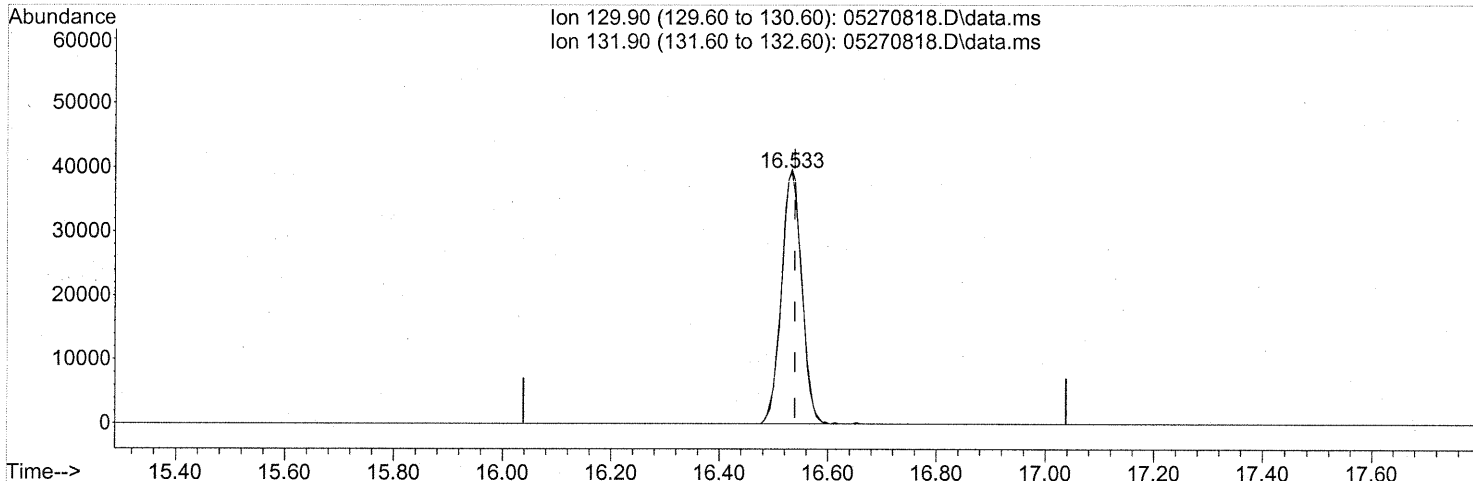
WA 5/31/08

8 05/21/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

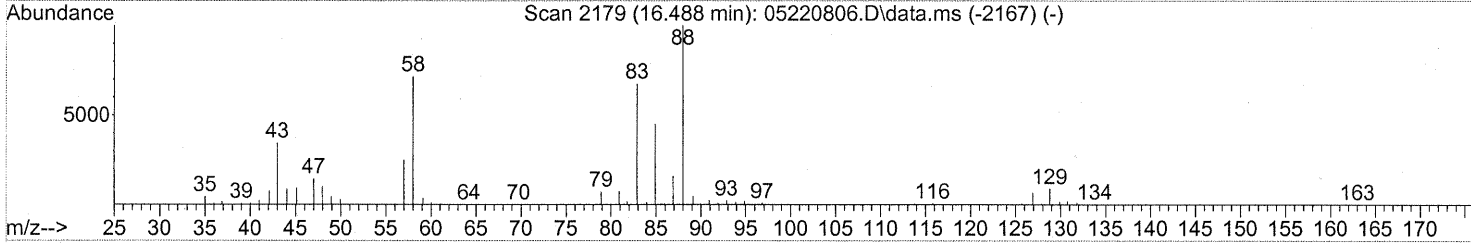
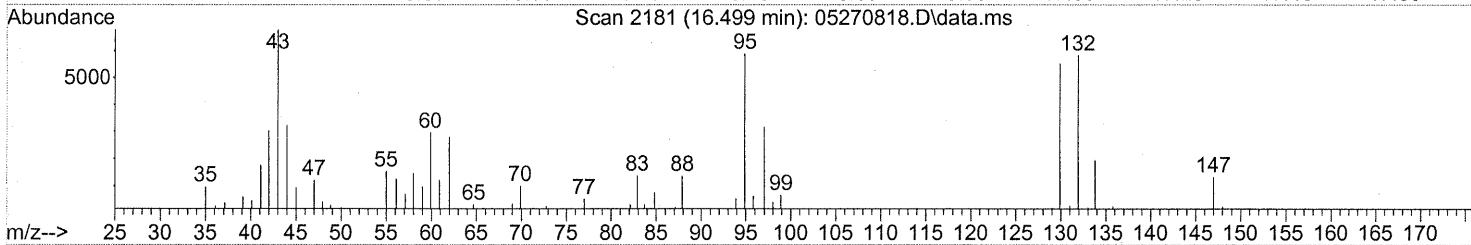
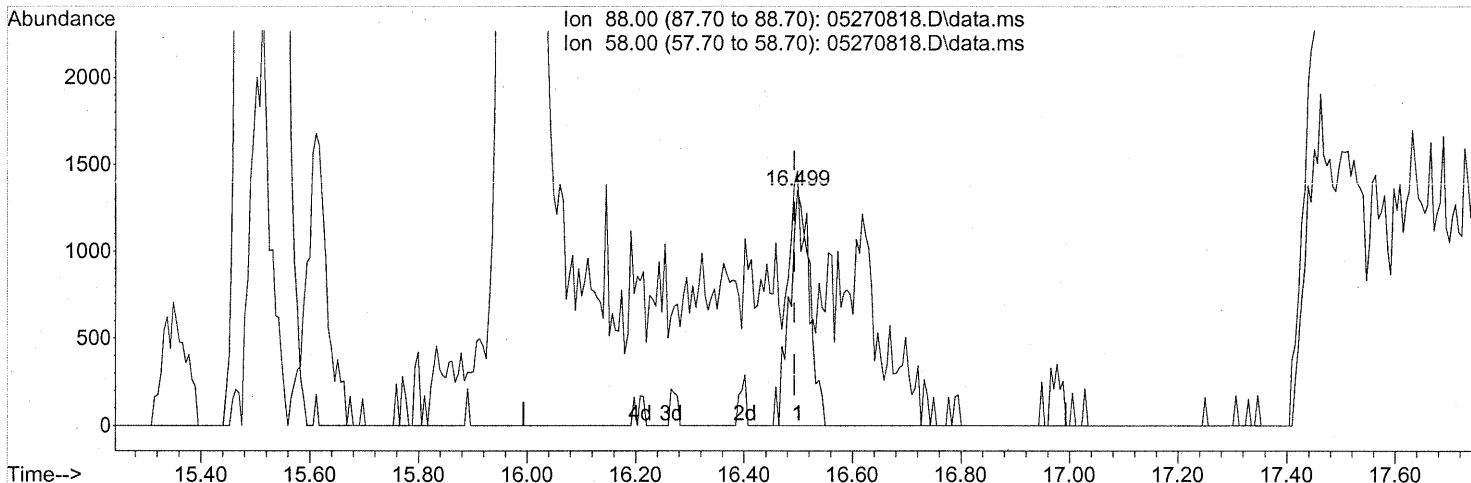
(47) Trichloroethene (T)
 16.533min (-0.006) 2.82ng
 response 100914

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(48) 1,4-Dioxane (T)
 16.499min (+0.006) 0.16ng
 response 3541

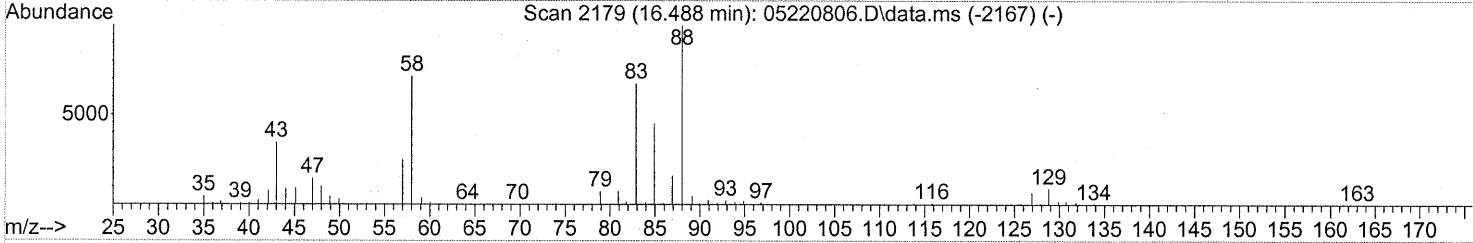
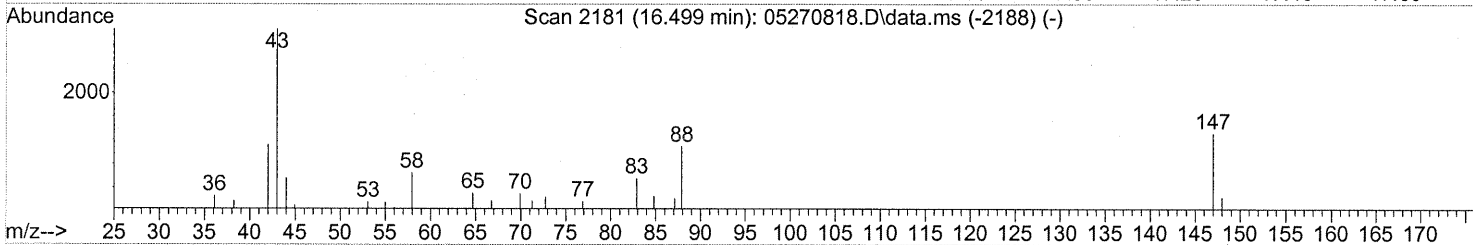
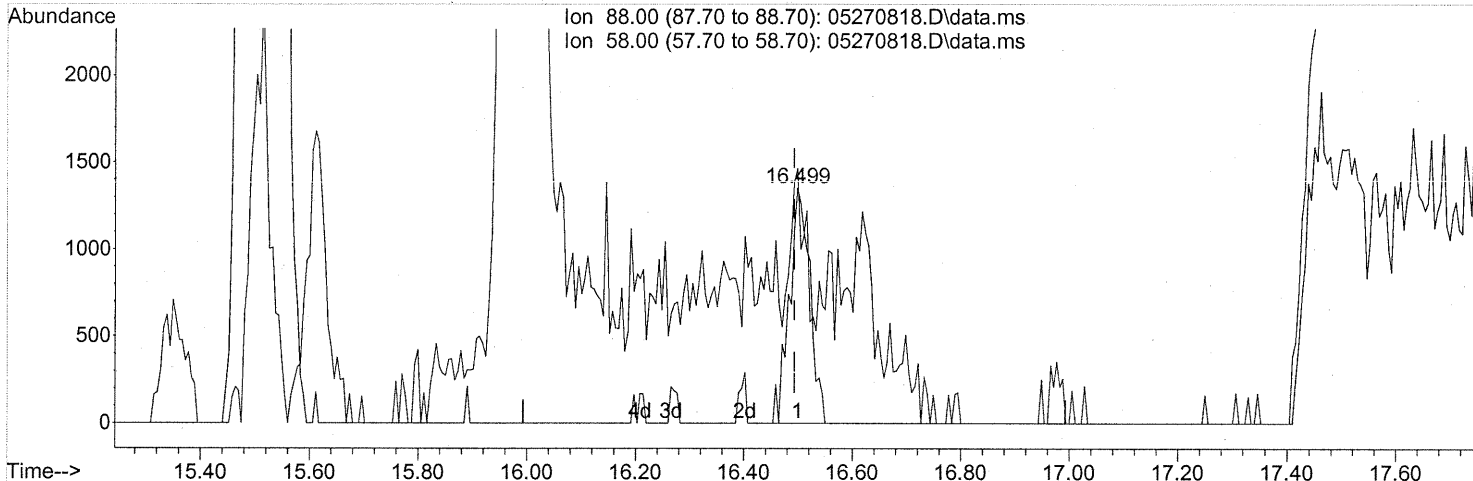
before subst.

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	48.63#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)
 16.499min (+0.006) 0.16ng
 response 3541

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	48.63#
0.00	0.00	0.00
0.00	0.00	0.00

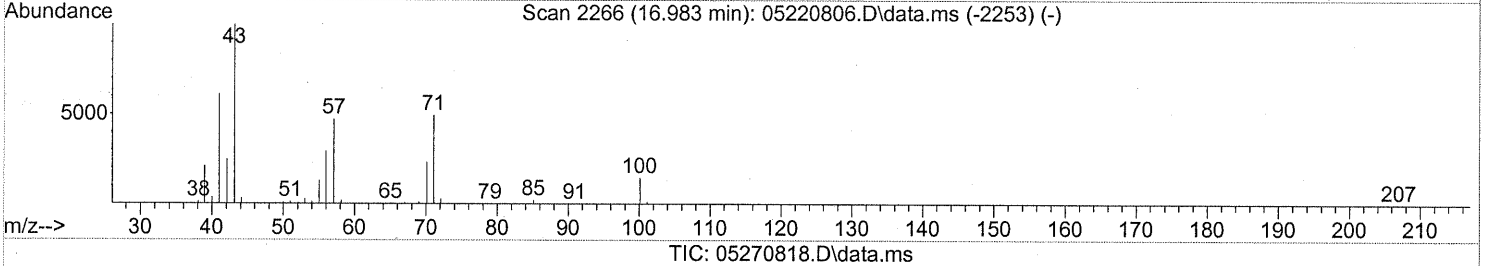
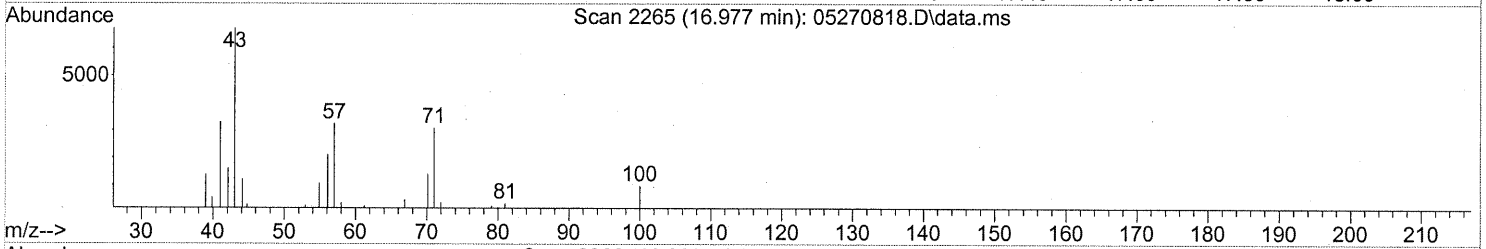
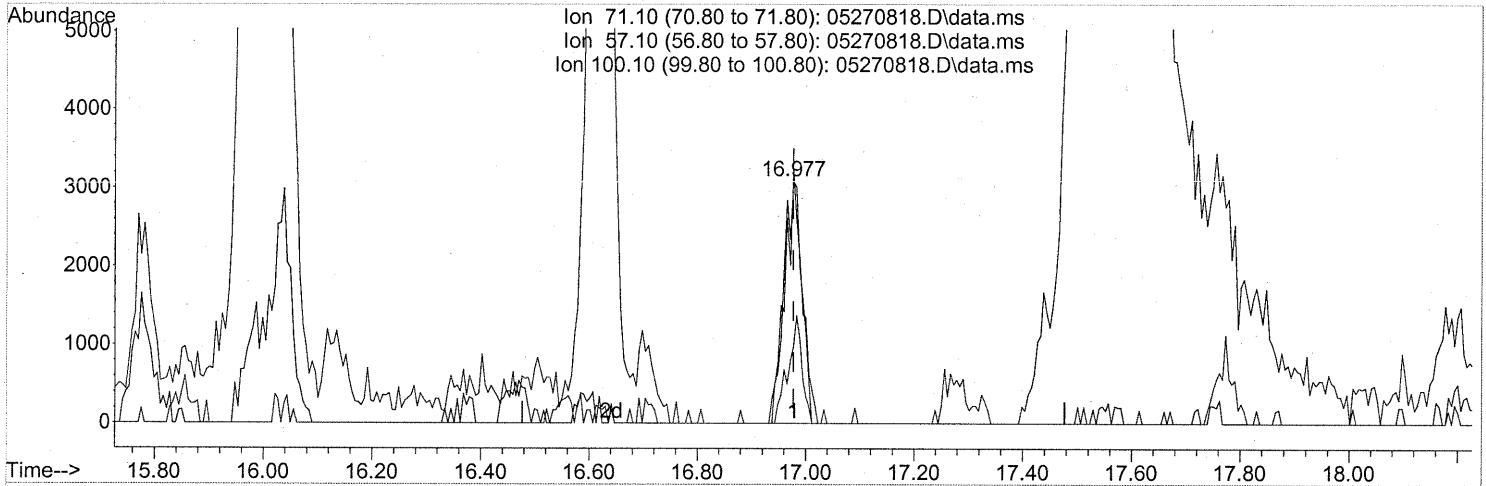
after substr.

DA 5/31/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(51) n-Heptane (T)

16.977min (-0.000) 0.23ng

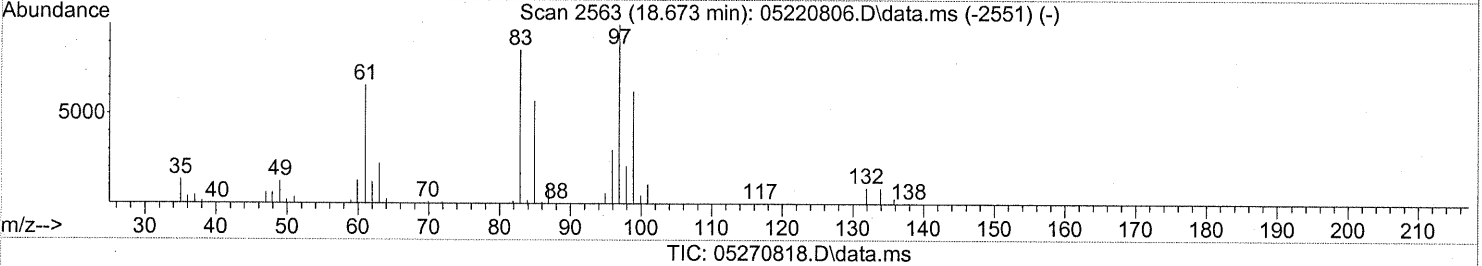
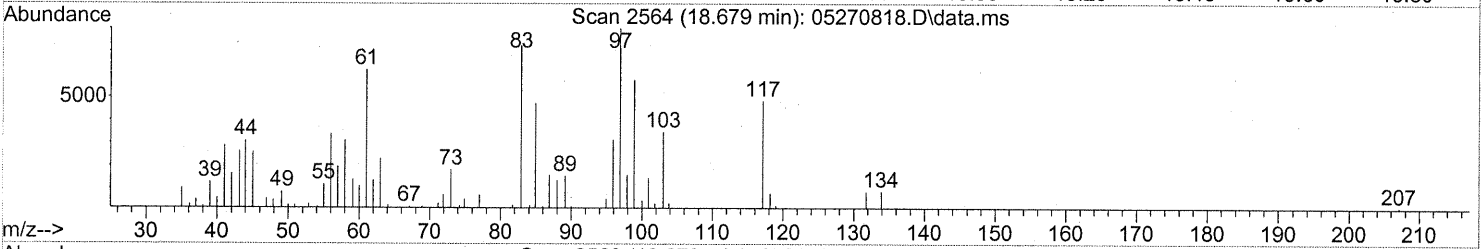
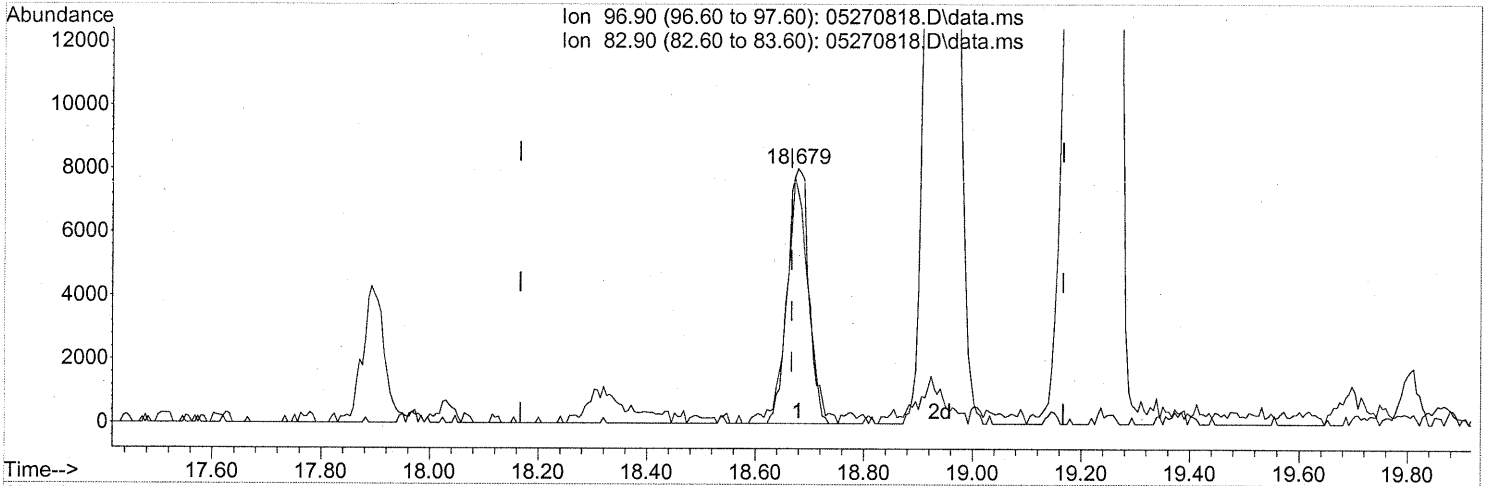
response 7061

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	102.03#
100.10	30.10	34.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.679min (+0.011) 0.76ng

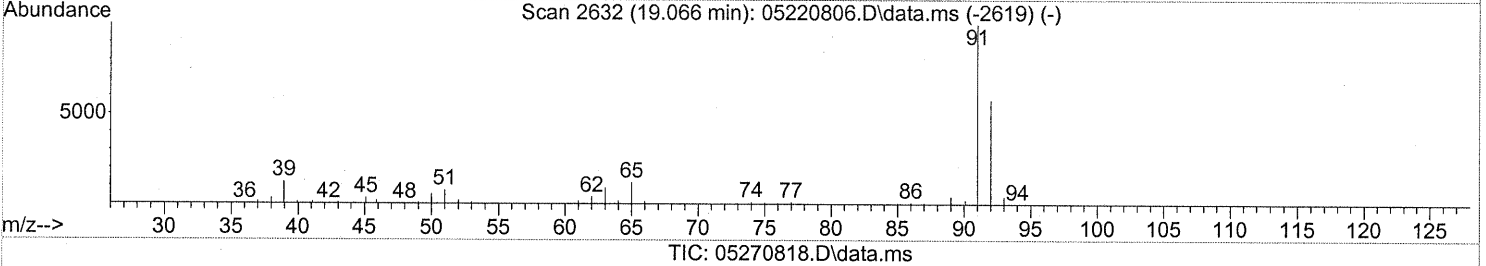
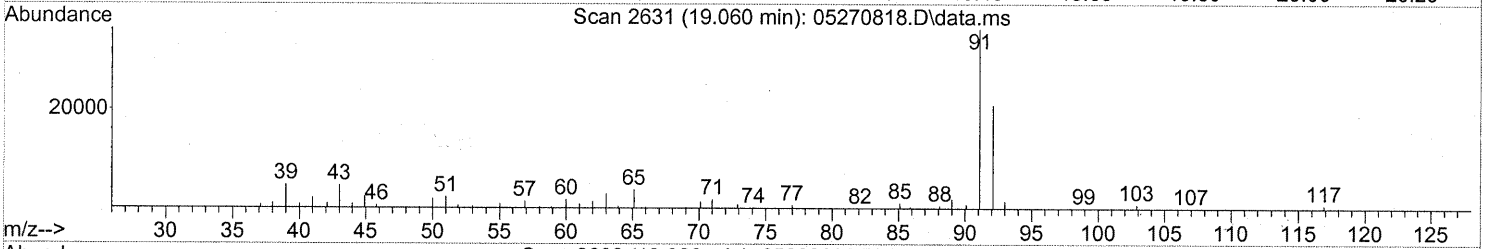
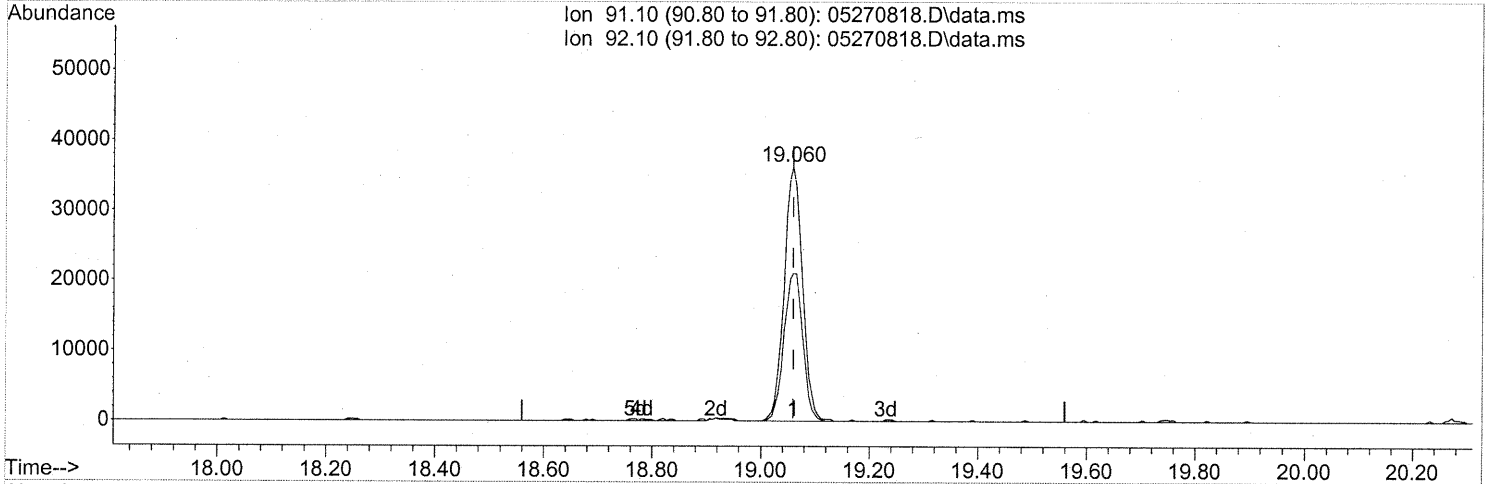
response 22039

Ion	Exp%	Act%
96.90	100	100
82.90	84.80	96.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



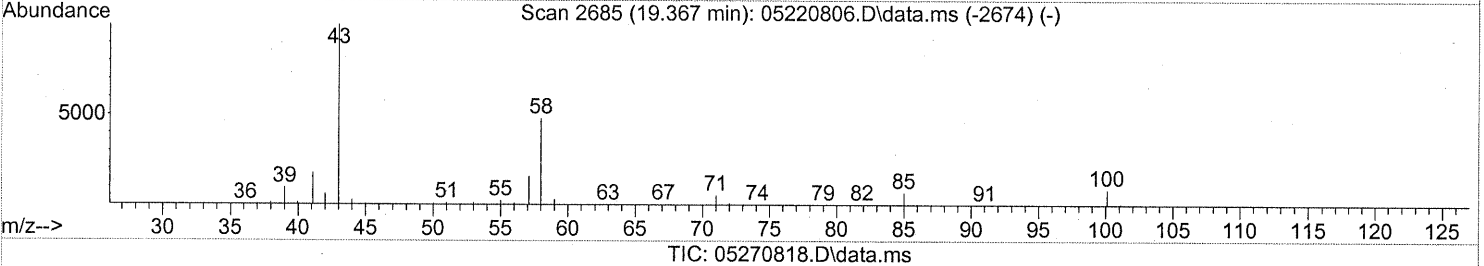
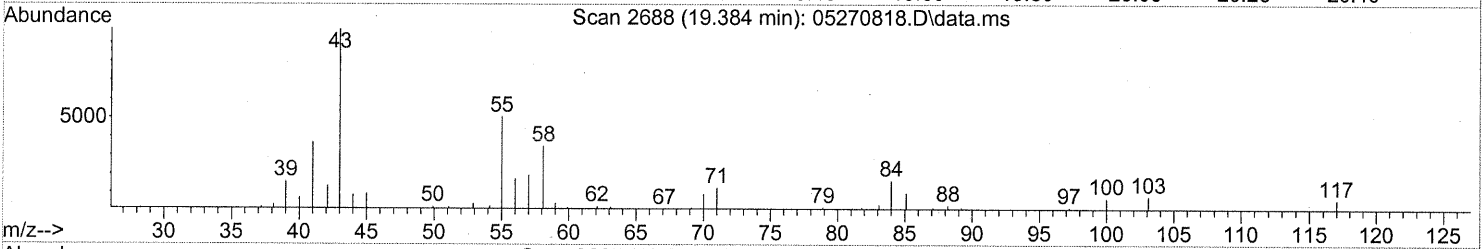
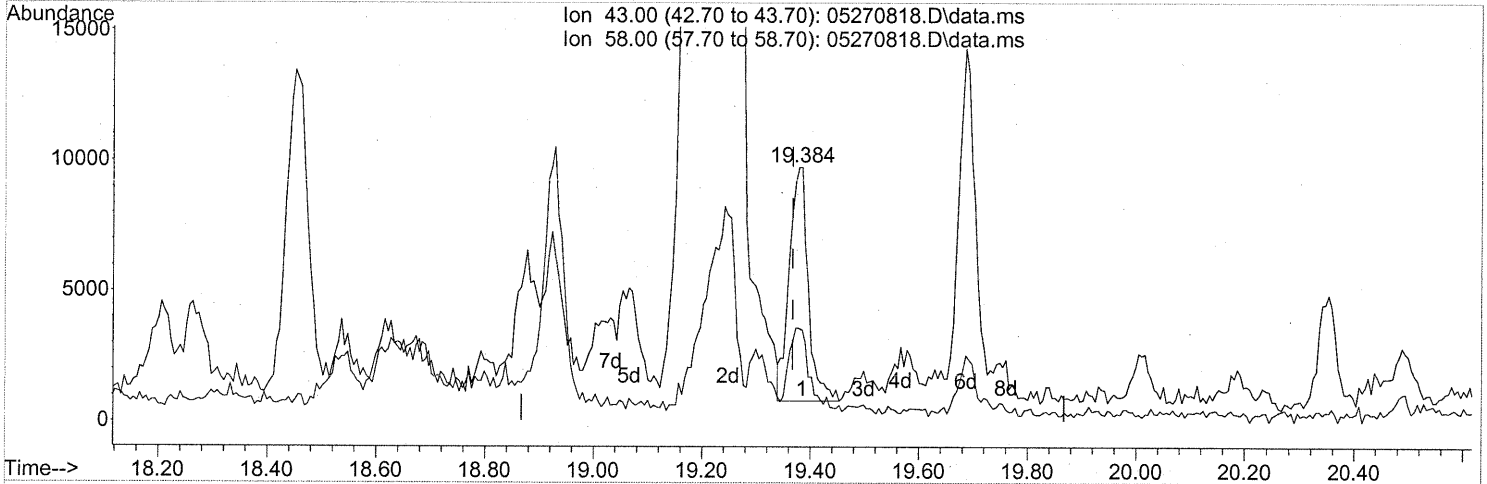
(58) Toluene (T)
 19.060min (-0.000) 0.65ng
 response 84725

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	59.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



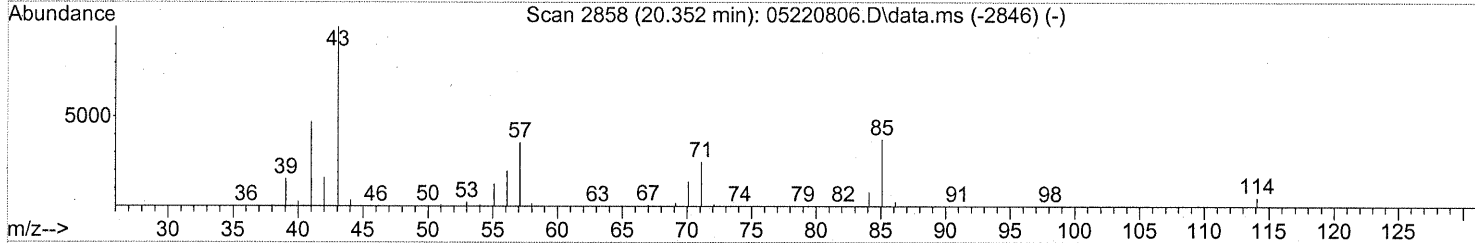
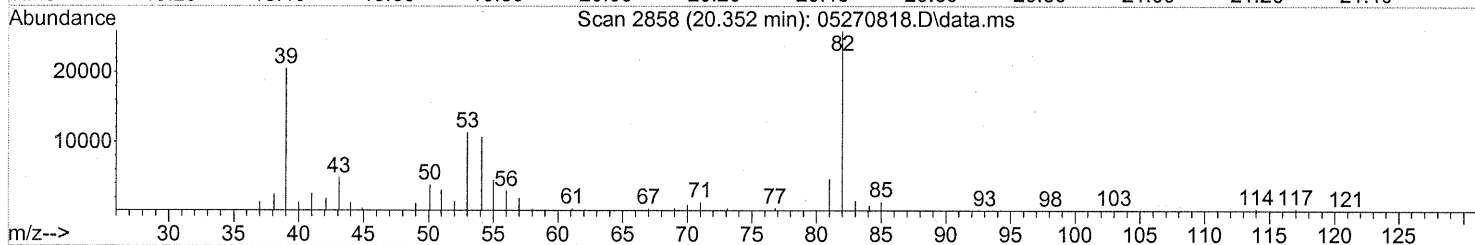
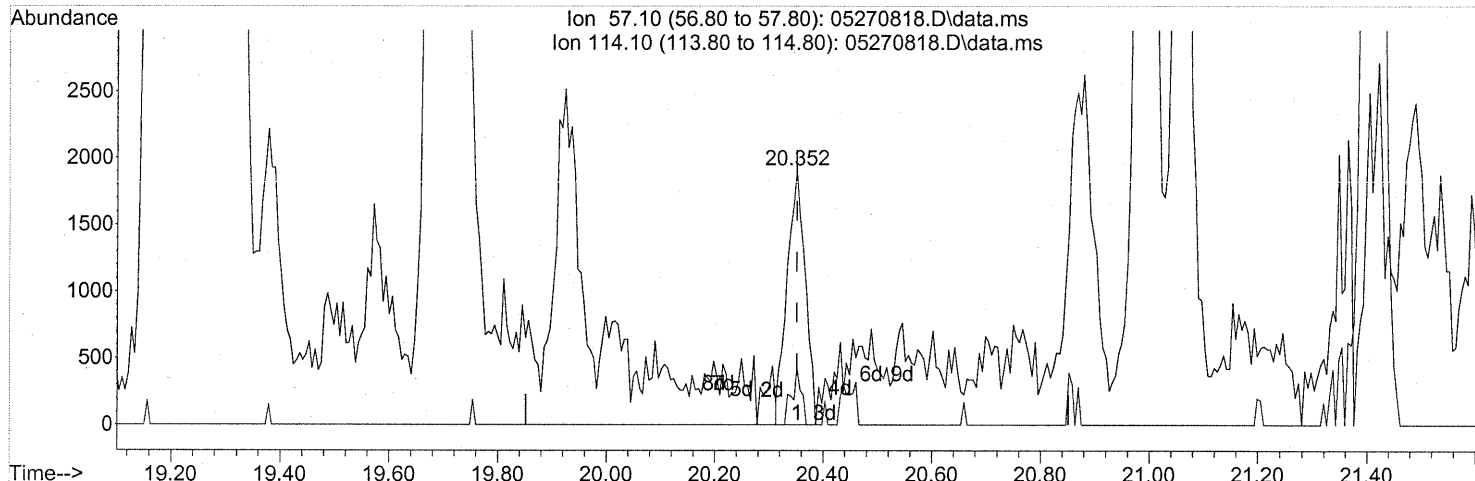
(59) 2-Hexanone (T)
 19.384min (+0.017) 0.24ng
 response 21641

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	39.43#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



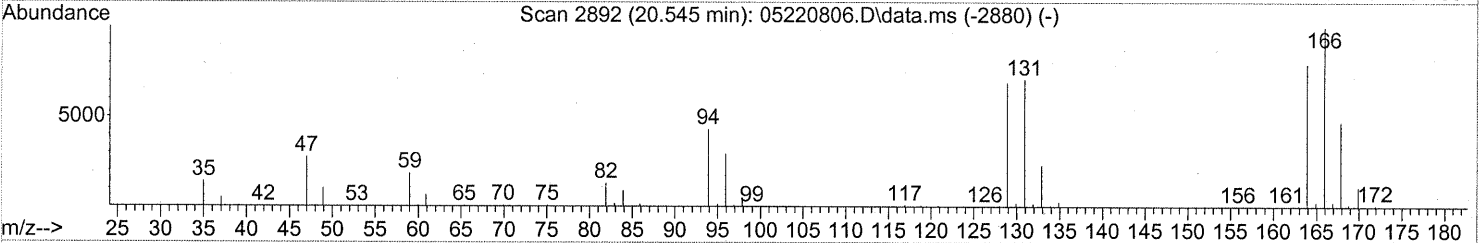
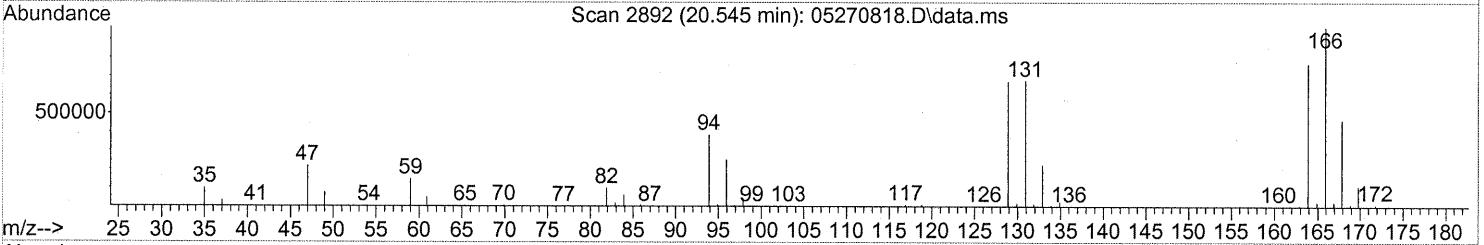
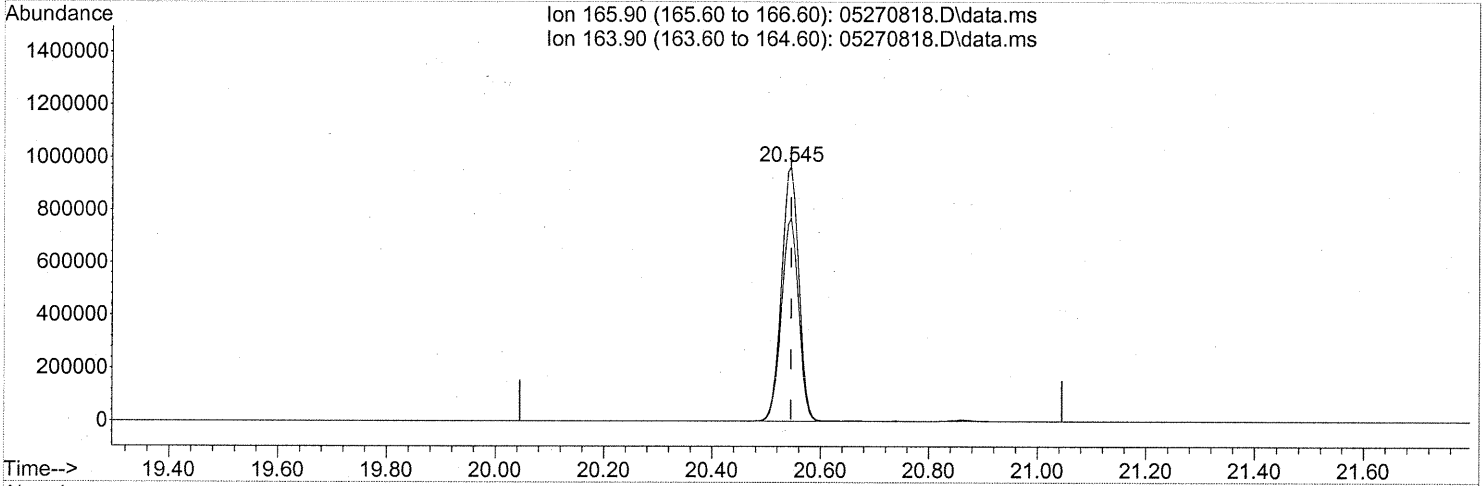
(63) n-Octane (T)
 20.352min (-0.000) 0.15ng
 response 4420

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	11.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 21:41
Operator : WA
Sample : P0801483-021 (1000ml)
Misc : ENSR SG16B-05 (-3.1, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



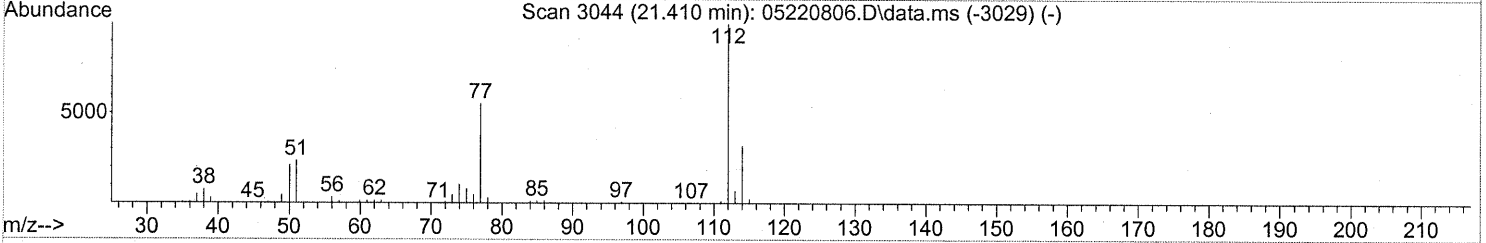
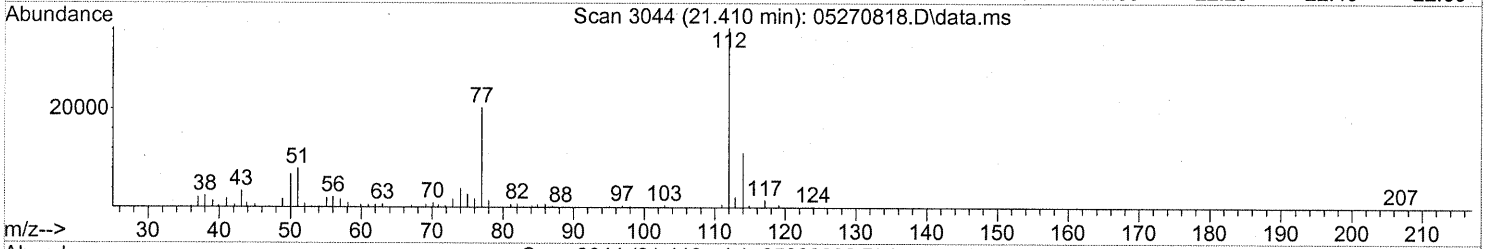
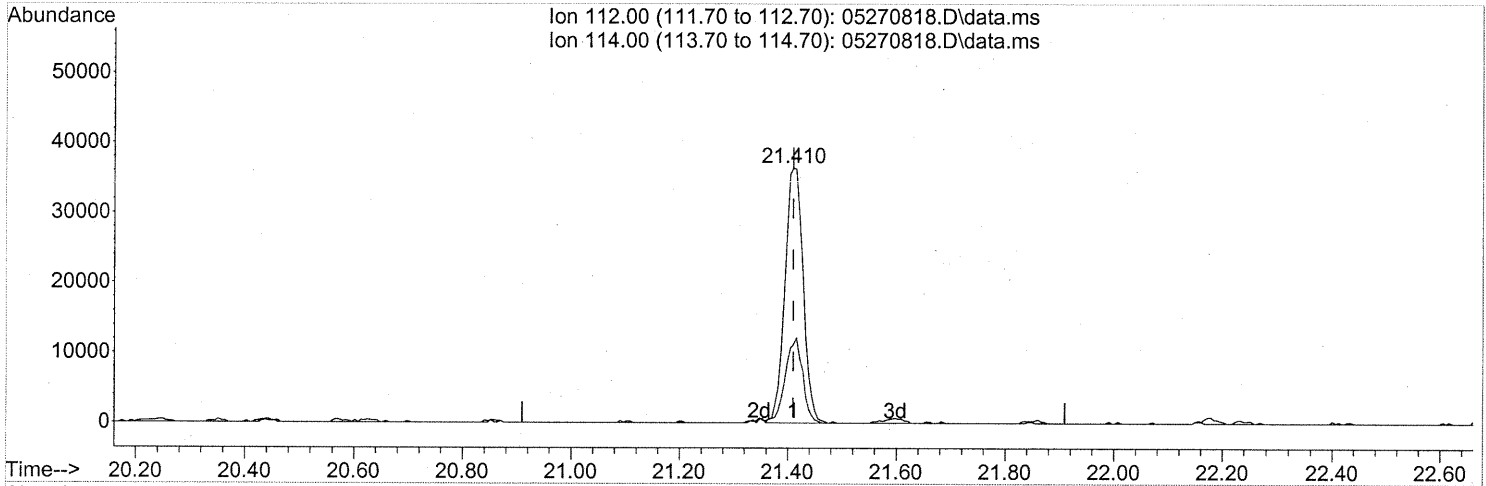
(64) Tetrachloroethene (T)
20.545min (-0.000) 55.31ng
response 2126122

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 21:41
Operator : WA
Sample : P0801483-021 (1000ml)
Misc : ENSR SG16B-05 (-3.1, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

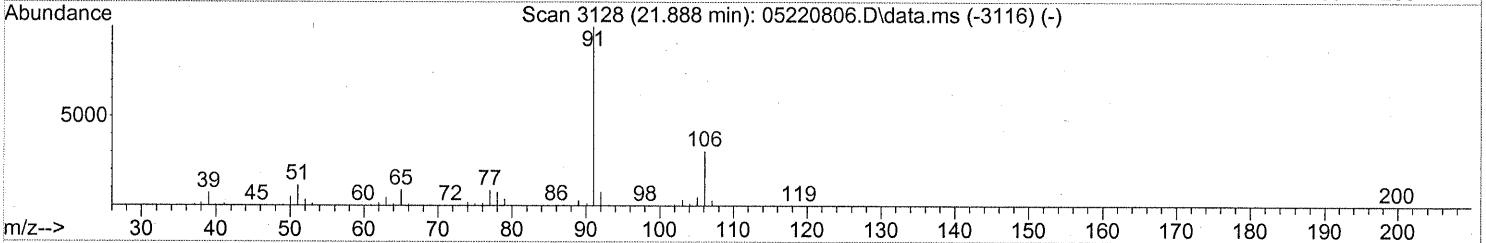
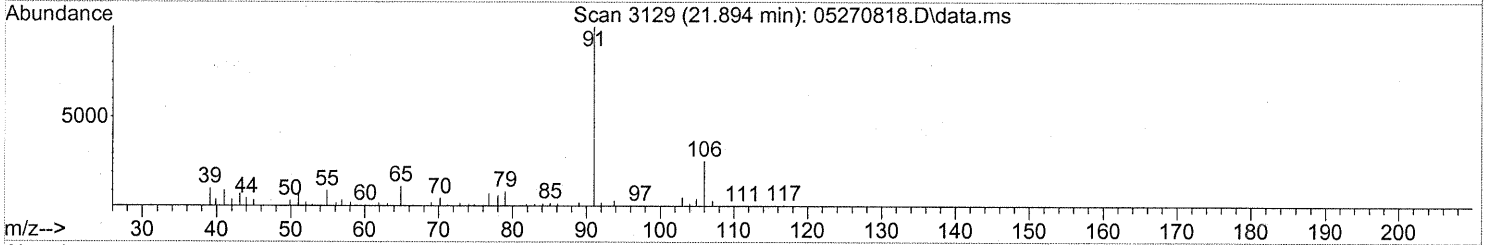
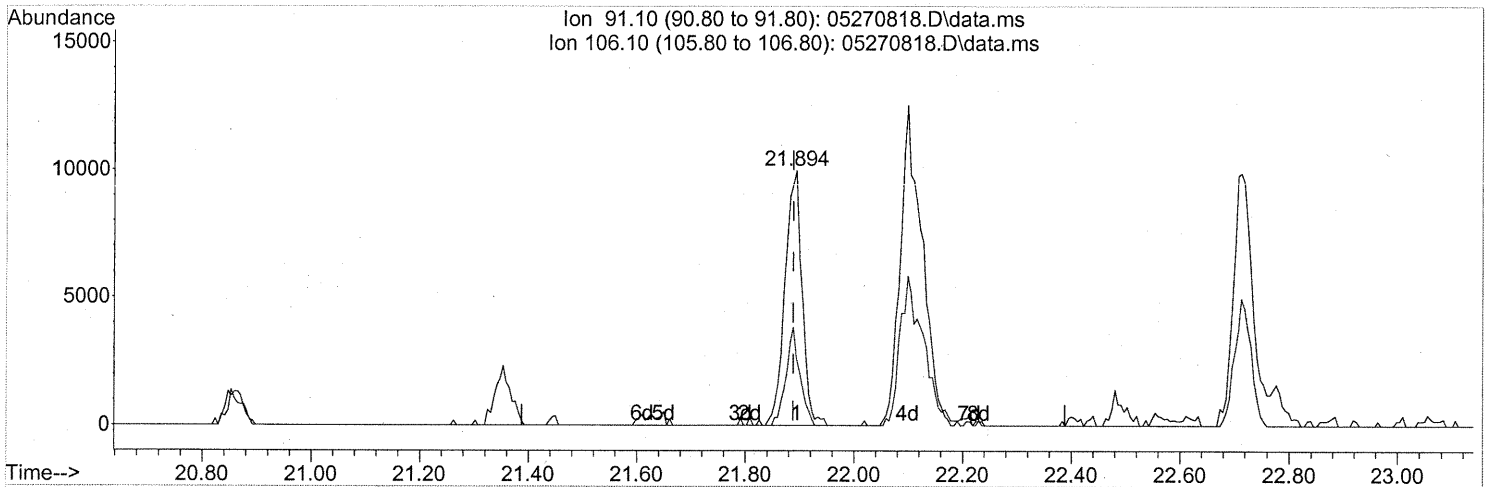
(65) Chlorobenzene (T)
21.410min (-0.000) 0.97ng
response 84763

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	31.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(66) Ethylbenzene (T)

21.894min (+0.006) 0.14ng

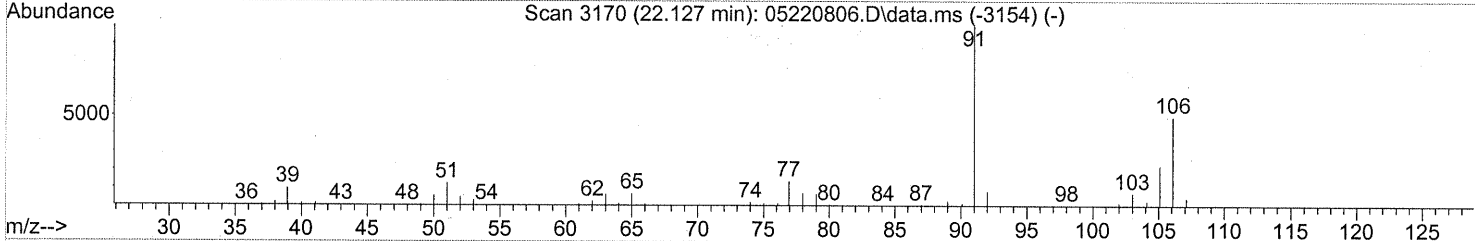
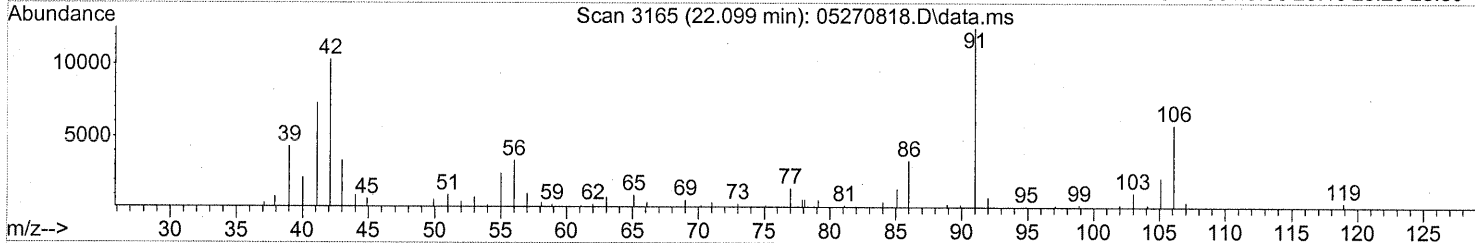
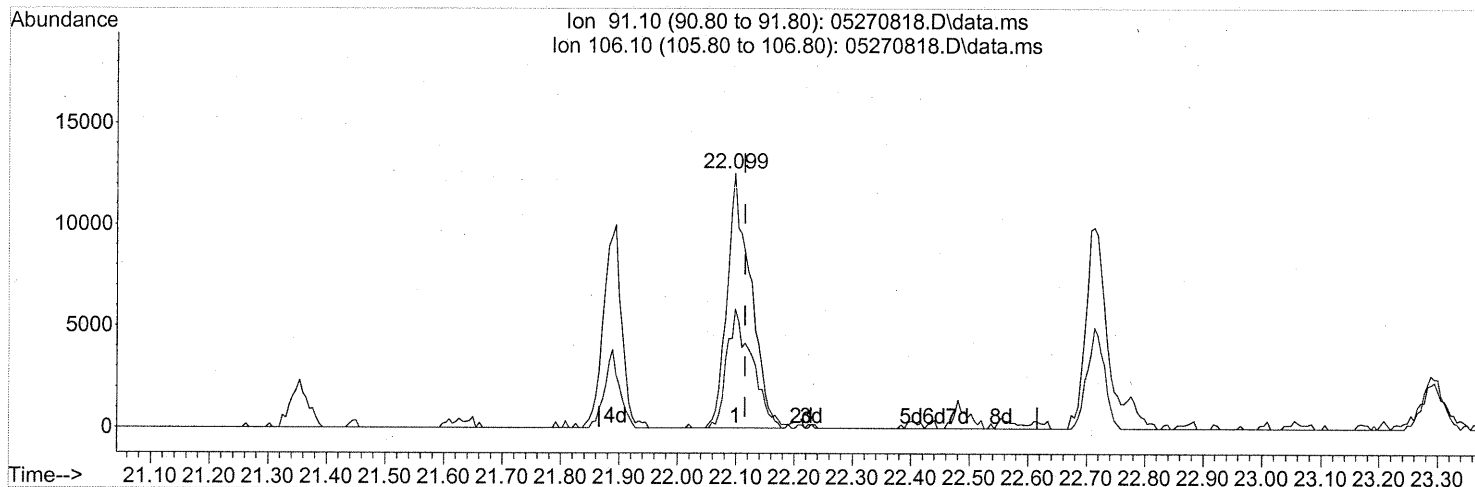
response 21558

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	31.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(67) m- & p-Xylene (T)

22.099min (-0.017) 0.35ng

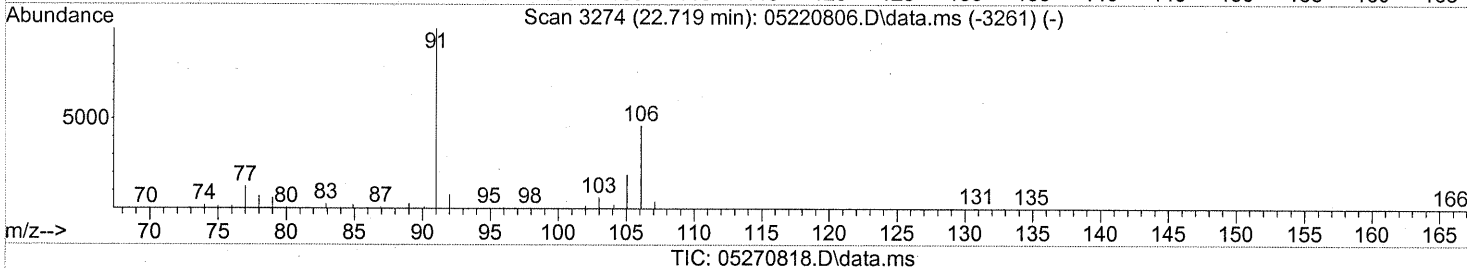
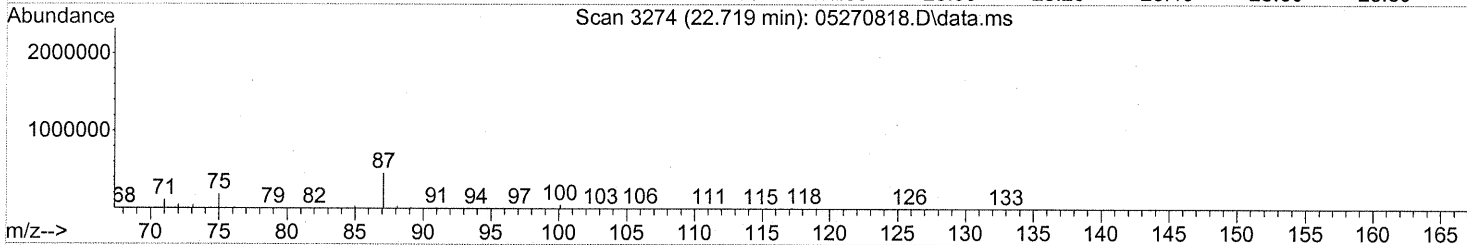
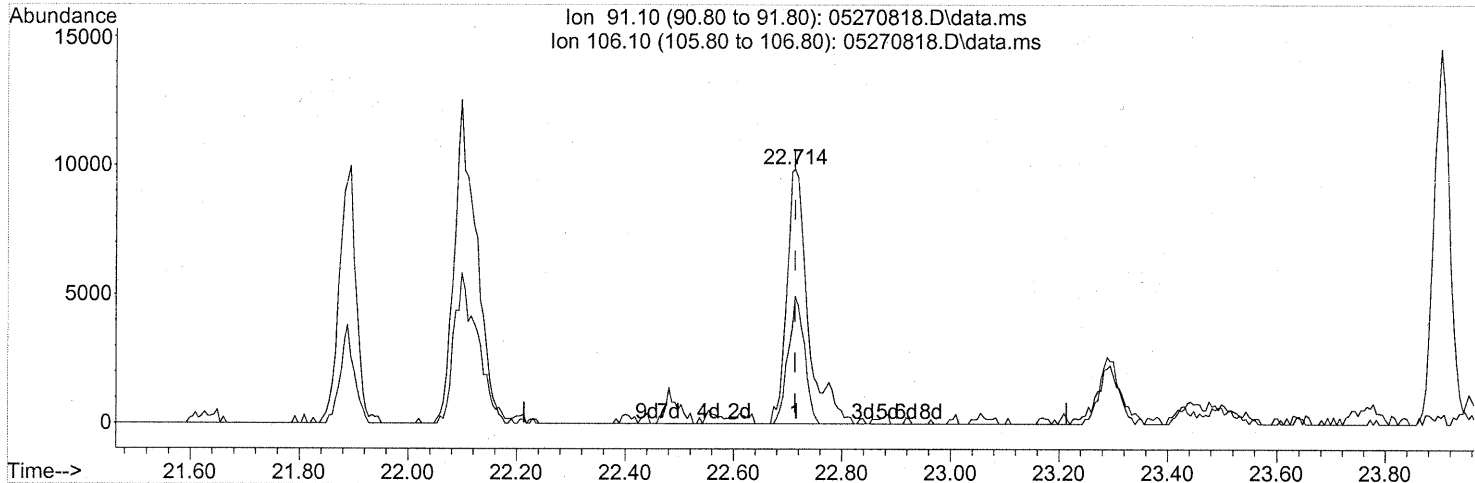
response 34864

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	50.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

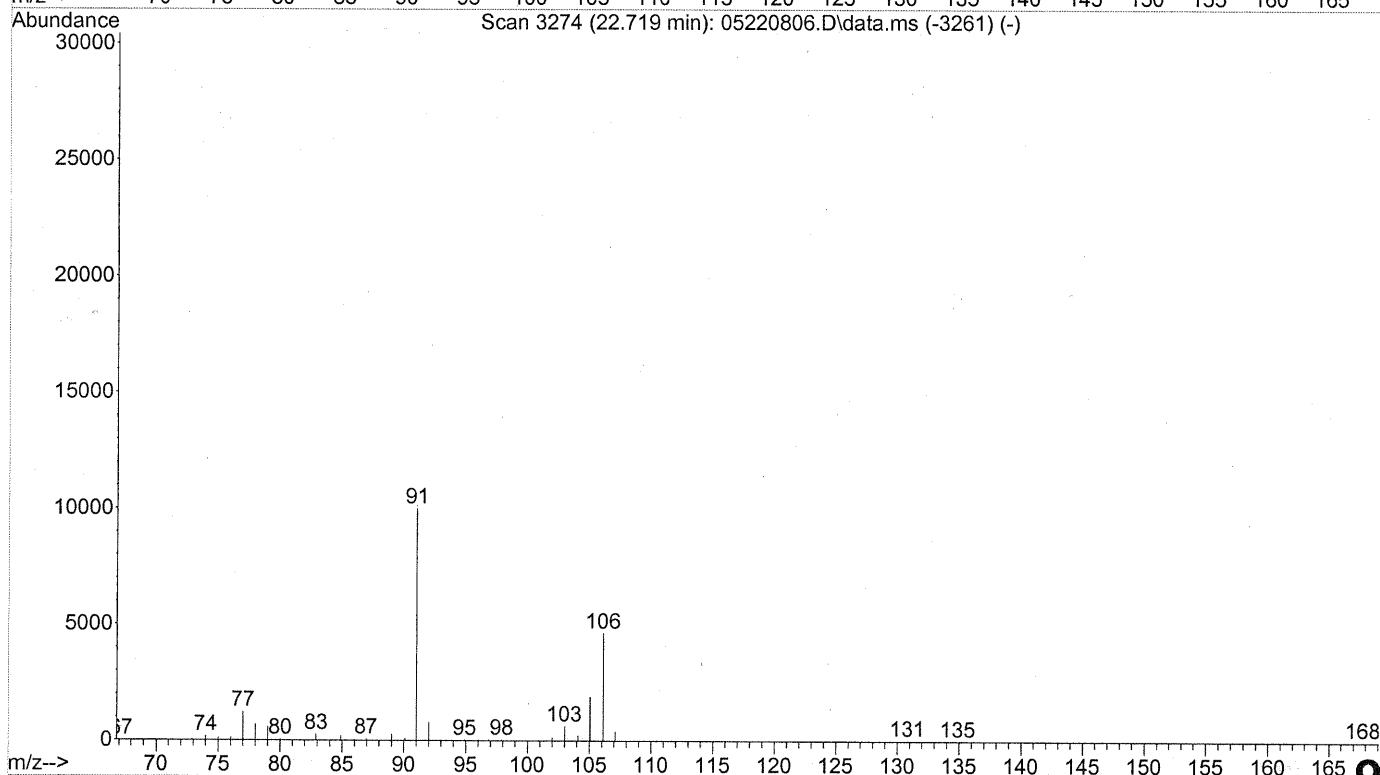
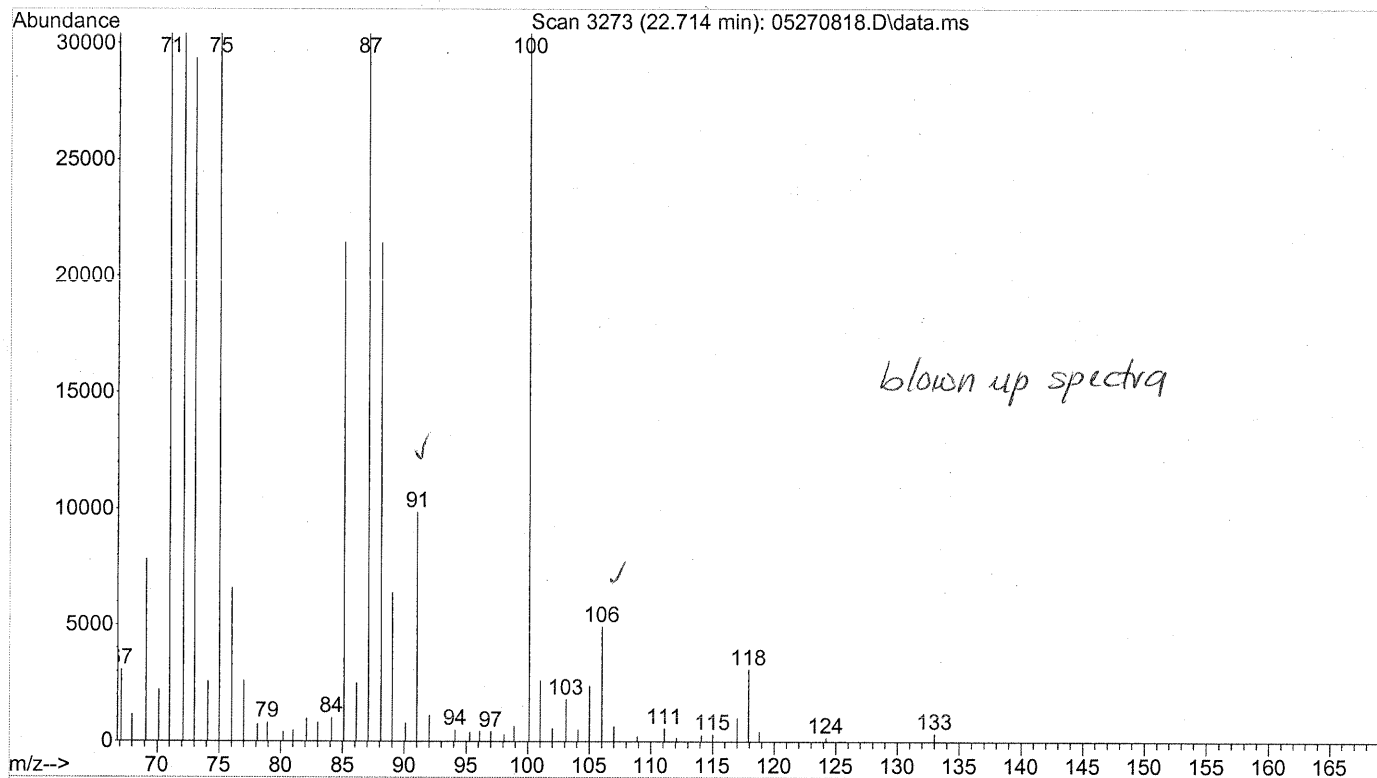


(70) o-Xylene (T)
 22.714min (-0.000) 0.25ng
 response 26825

see blown up spectra

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	38.50
0.00	0.00	0.00
0.00	0.00	0.00

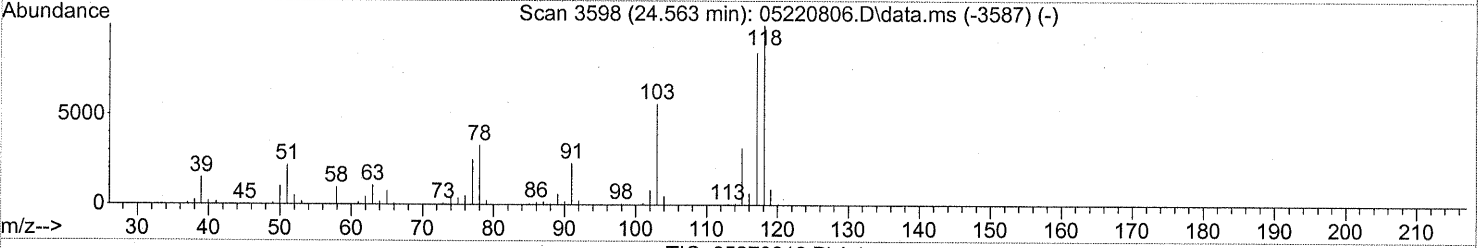
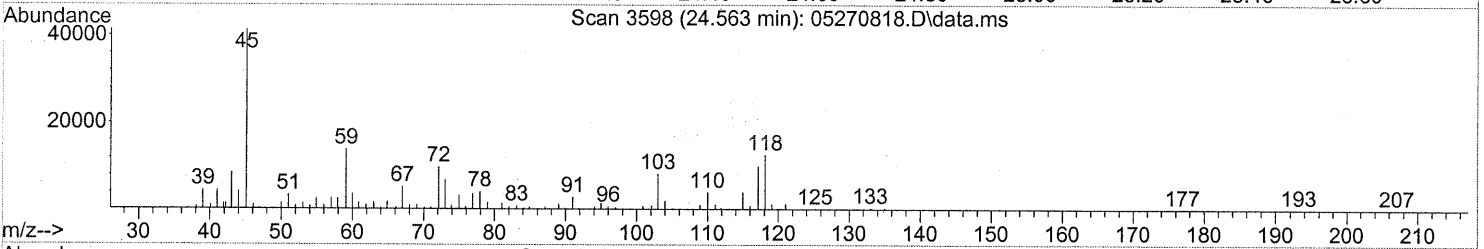
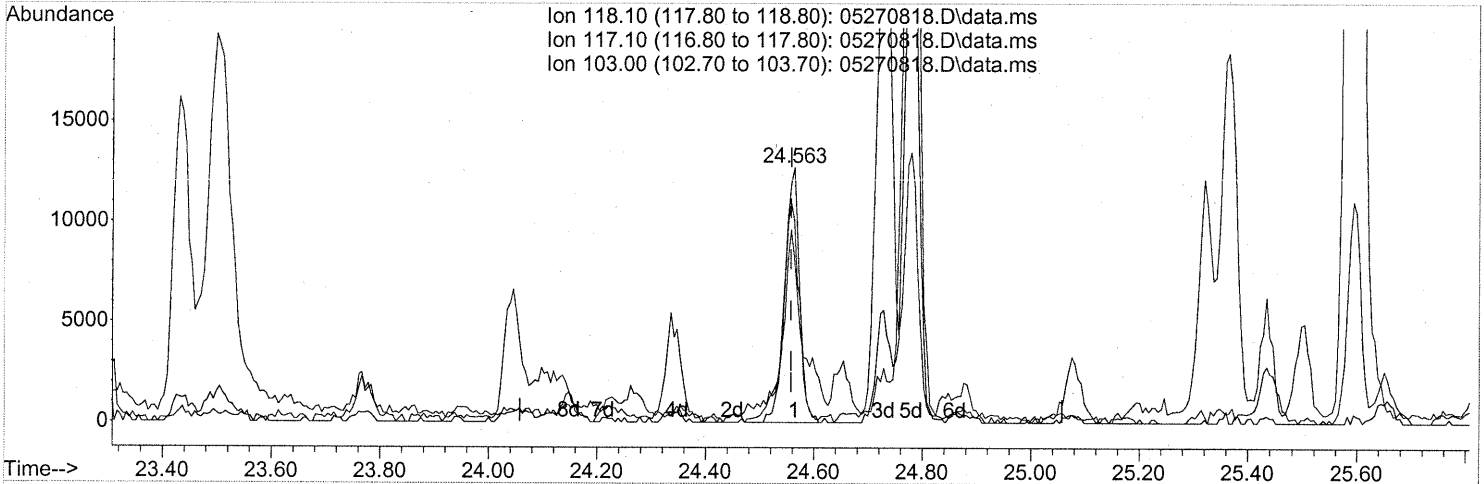
File : J:\MS13\DATA\2008_05\27\05270818.D
Operator : WA
Acquired : 27 May 2008 21:41 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-021 (1000ml)
Misc Info : ENSR SG16B-05 (-3.1, 3.5)
Vial Number: 2



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 21:41
Operator : WA
Sample : P0801483-021 (1000ml)
Misc : ENSR SG16B-05 (-3.1, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.563min (+0.006) 0.35ng

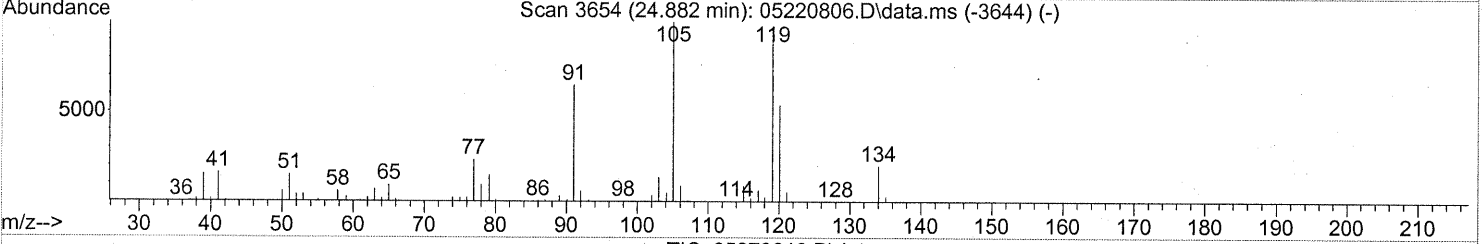
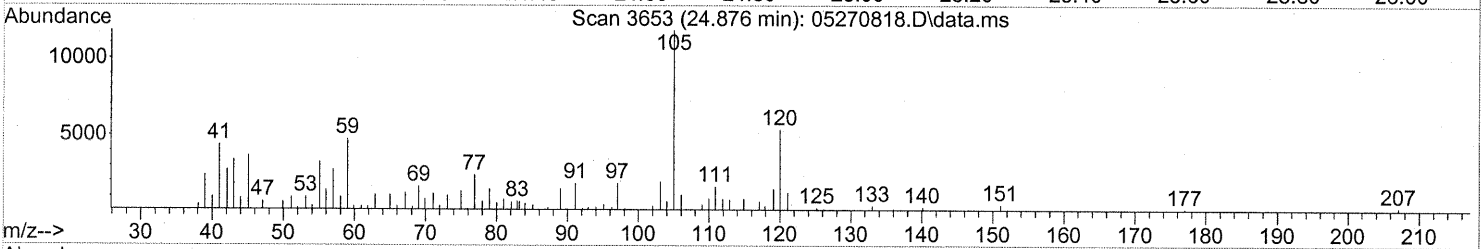
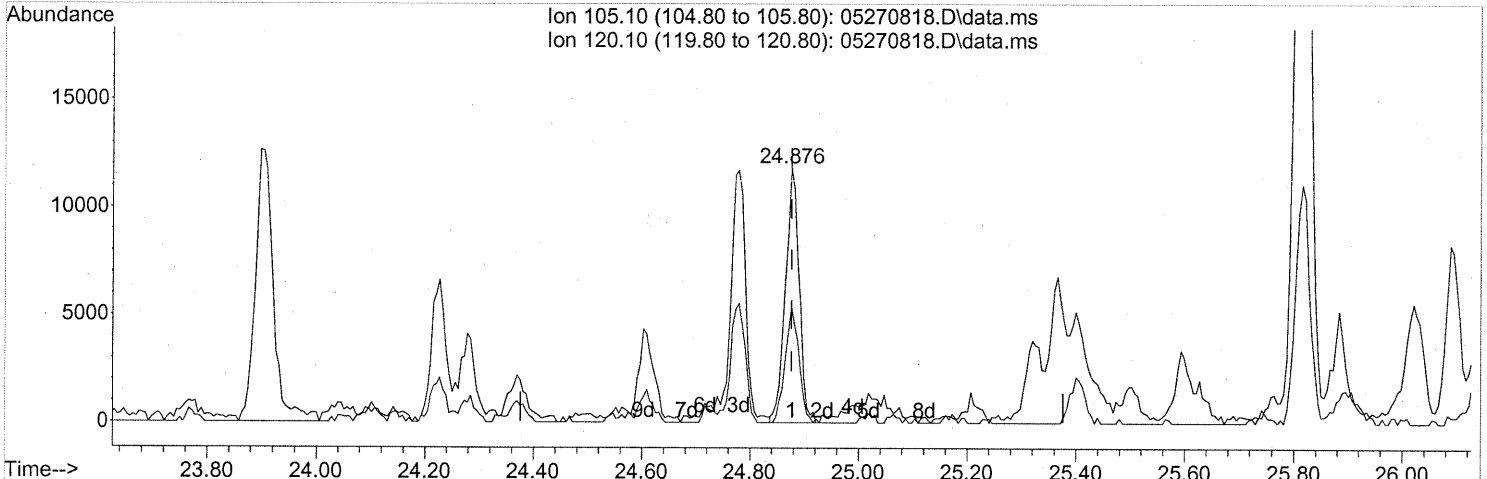
response 24084

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	97.31
103.00	55.30	102.59#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.876min (-0.000) 0.16ng

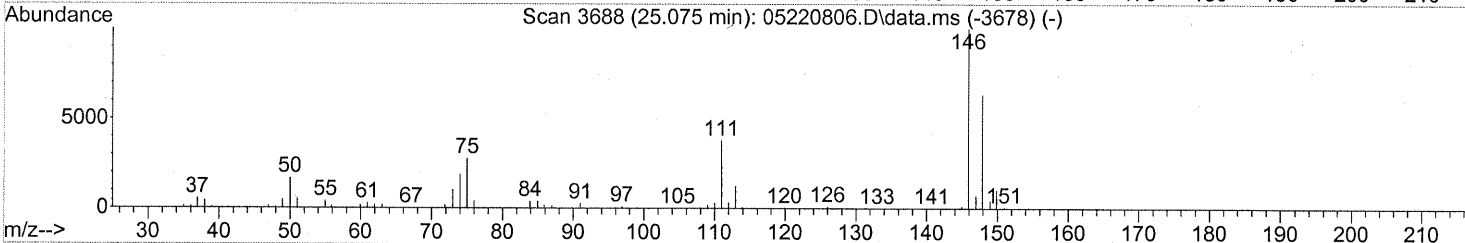
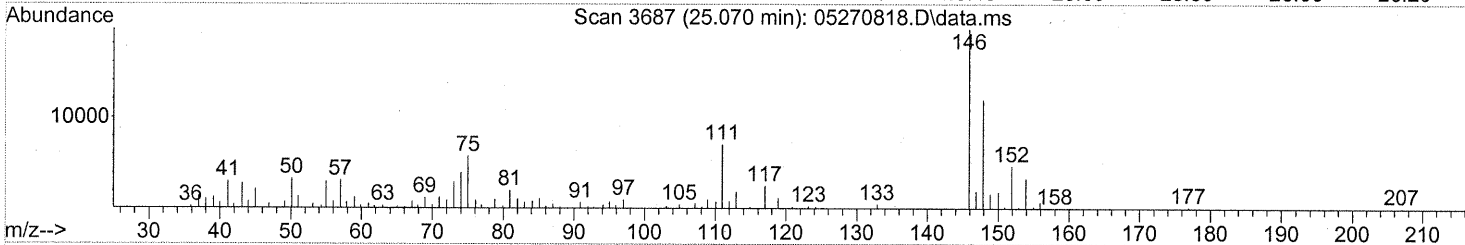
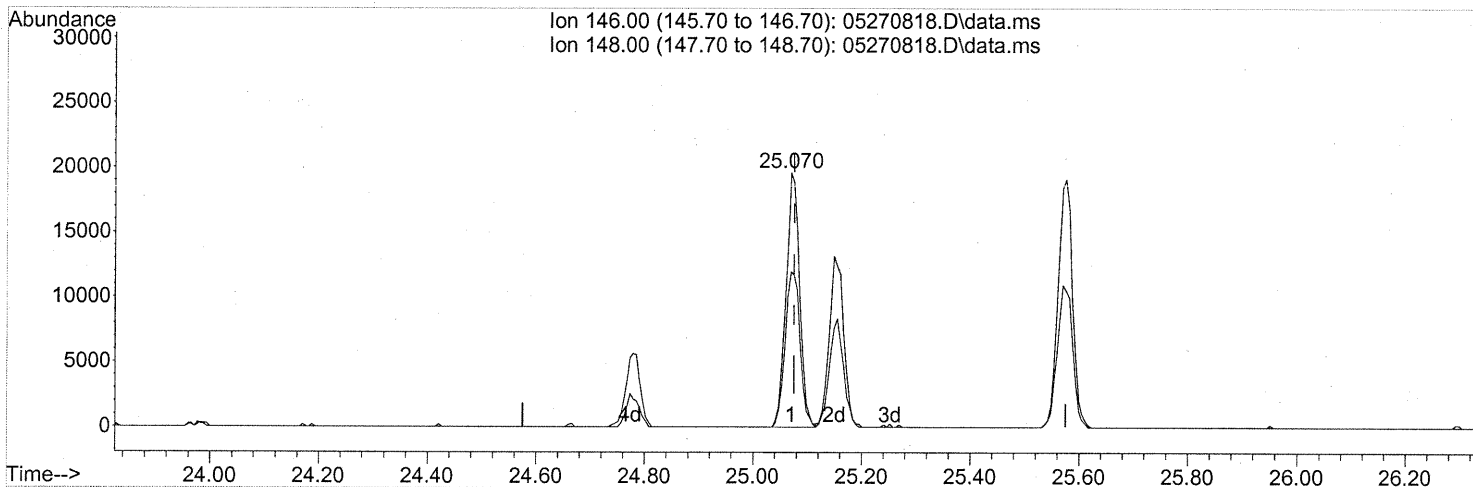
response 20853

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.070min (-0.006) 0.41ng

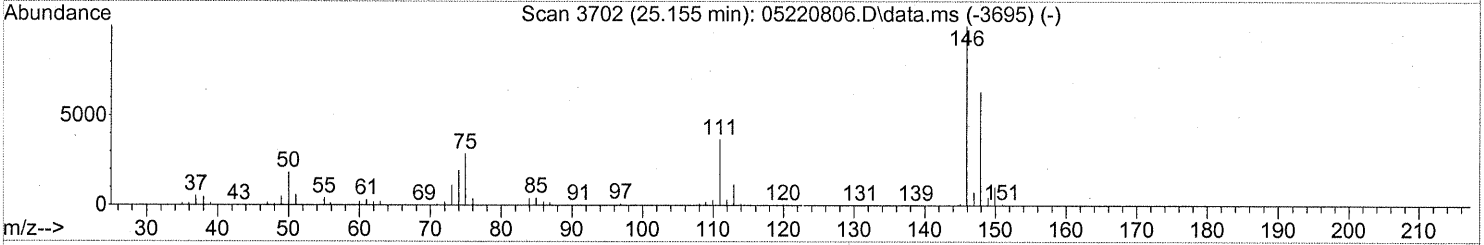
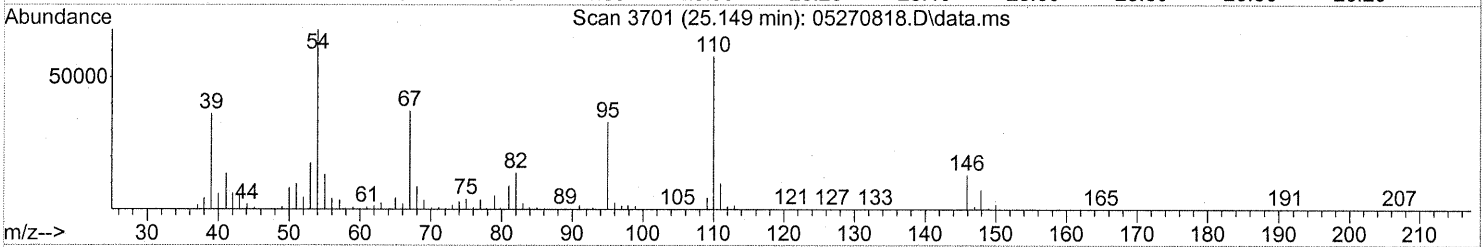
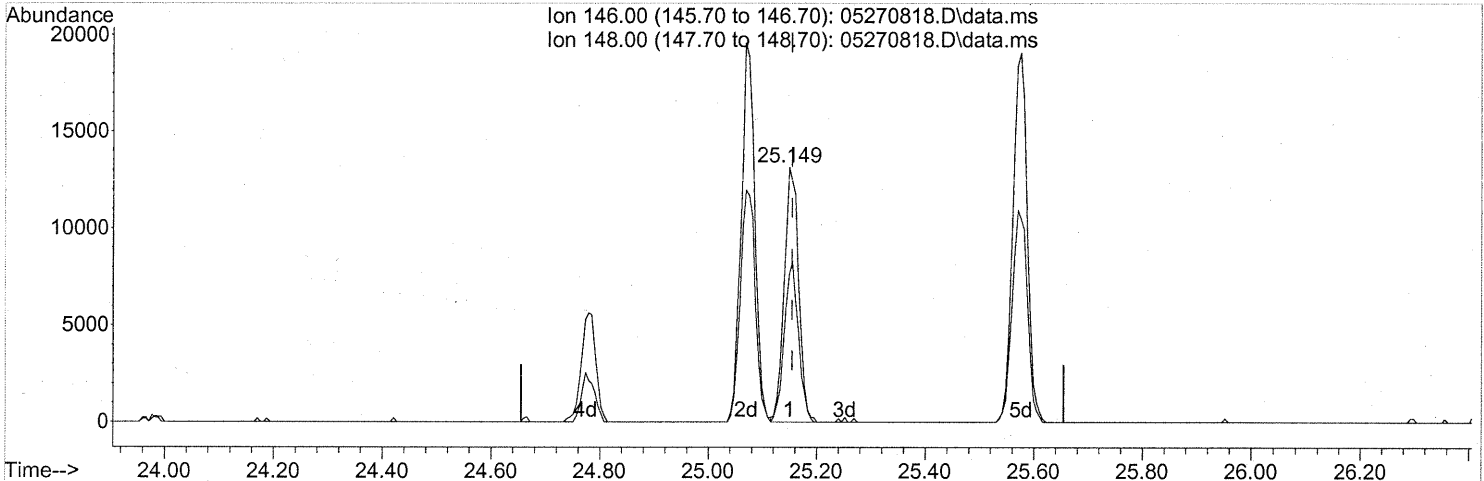
response 33896

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	66.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 0.31ng

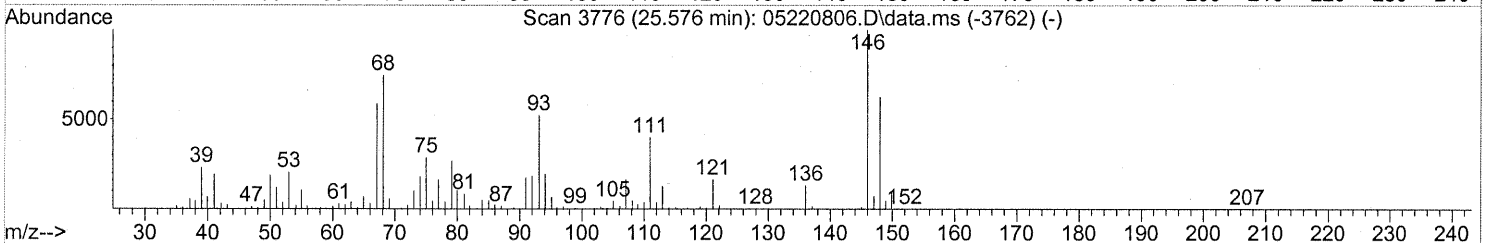
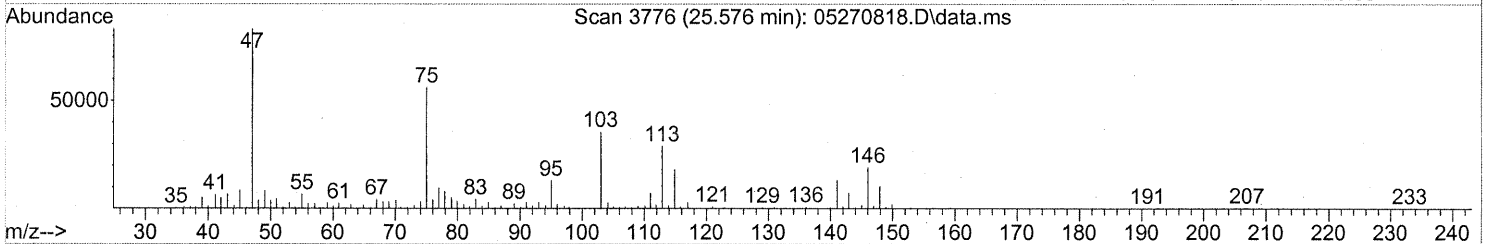
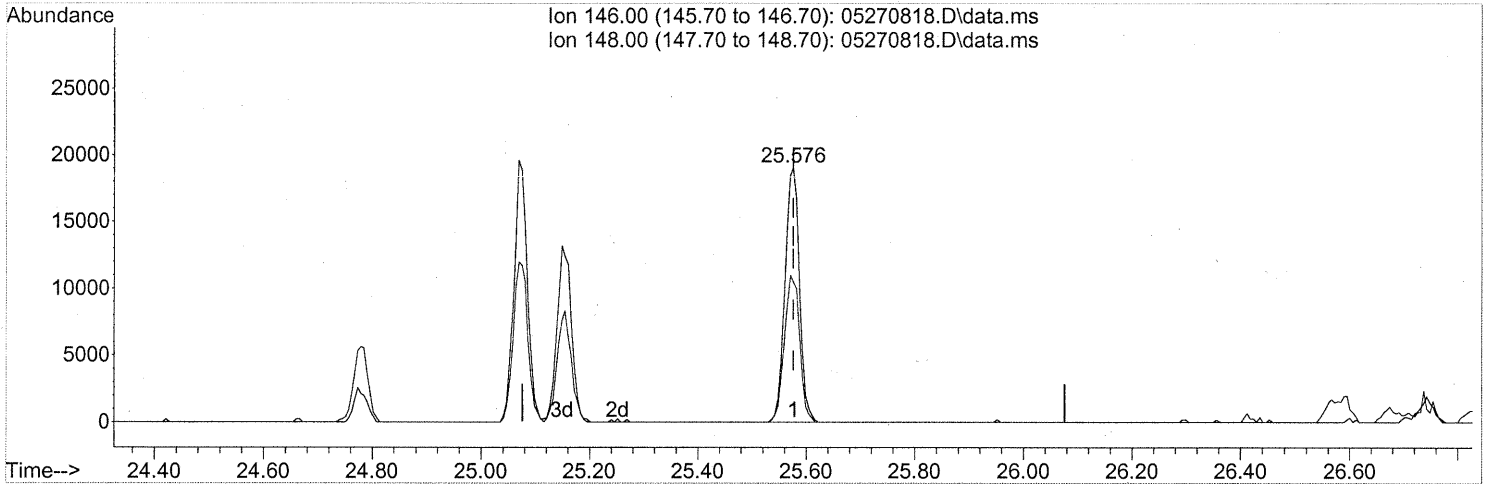
response 24287

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	61.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.576min (-0.000) 0.46ng

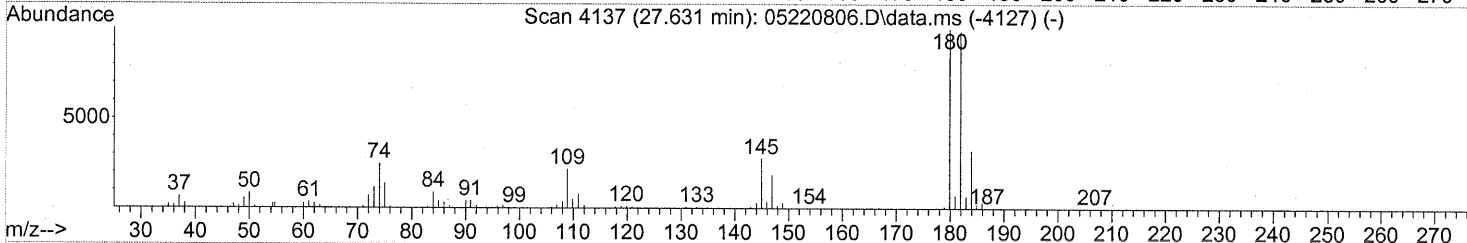
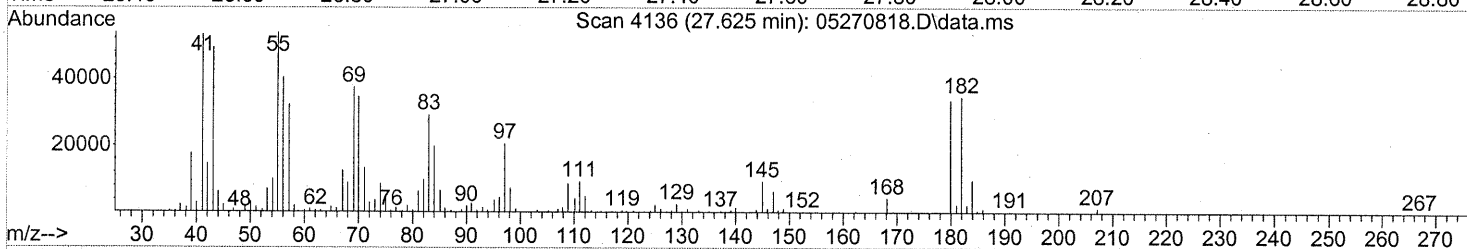
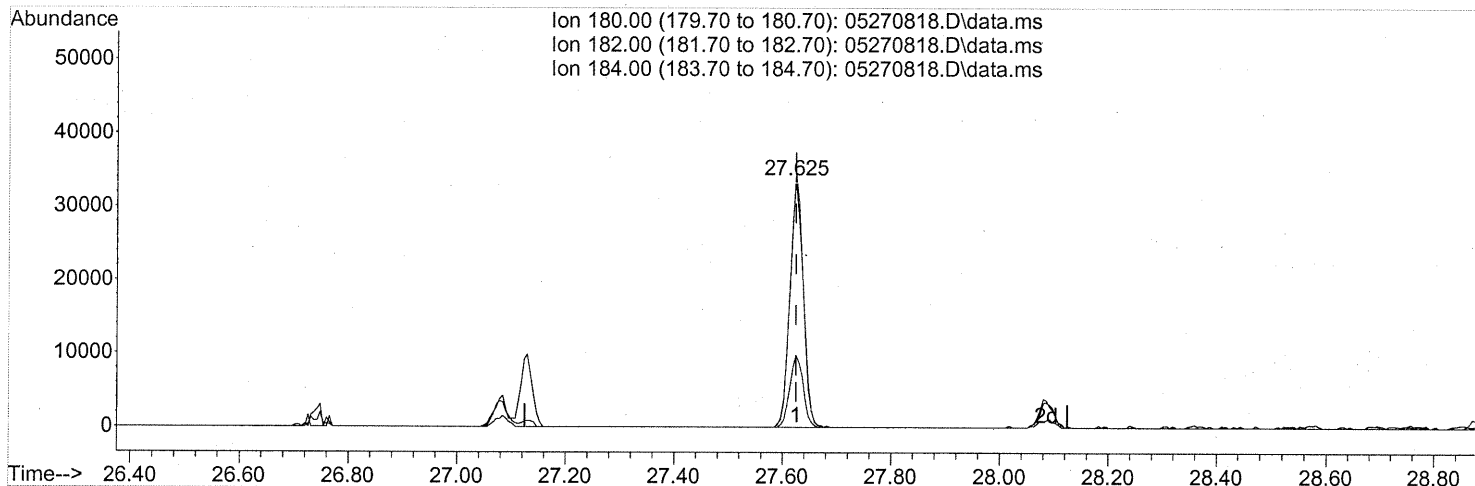
response 35271

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	60.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(94) 1,2,4-Trichlorobenzene (T)

27.625min (-0.000) 1.00ng

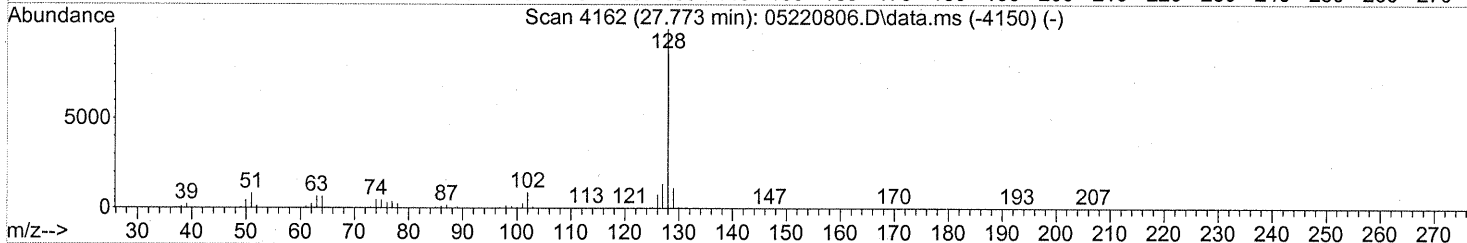
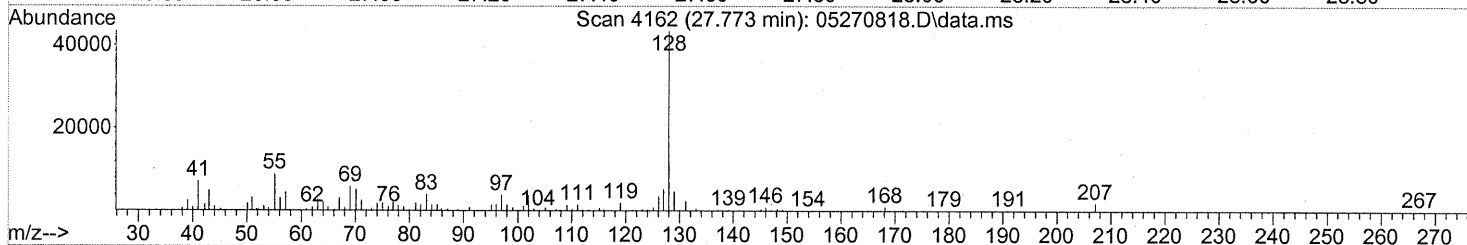
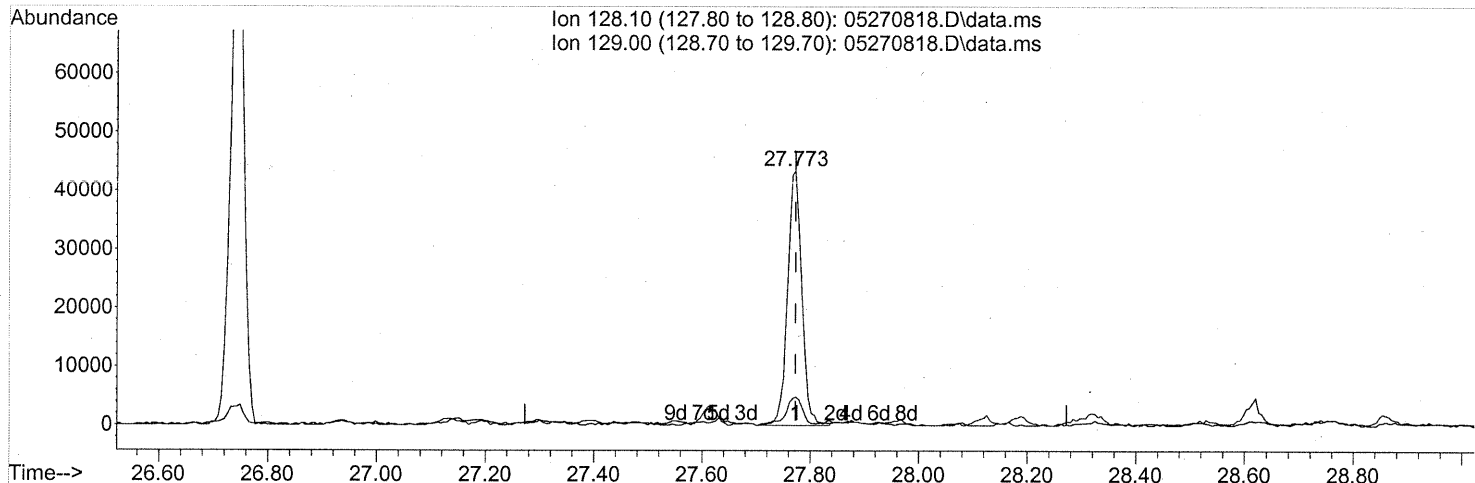
response 56678

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	102.17
184.00	30.30	29.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(95) Naphthalene (T)

27.773min (-0.000) 0.46ng

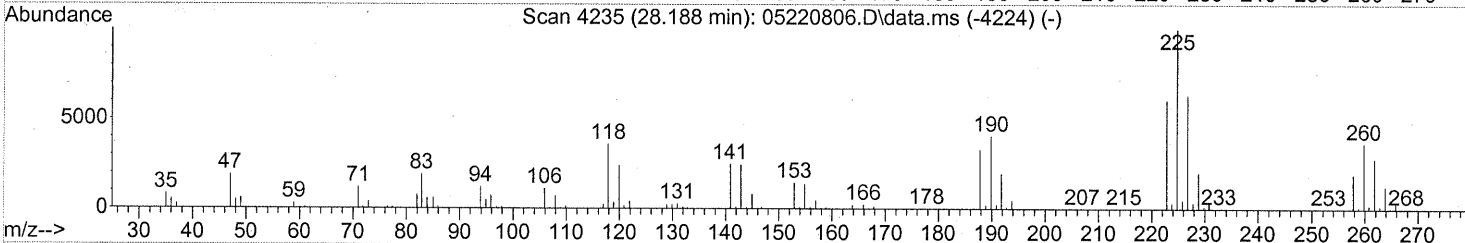
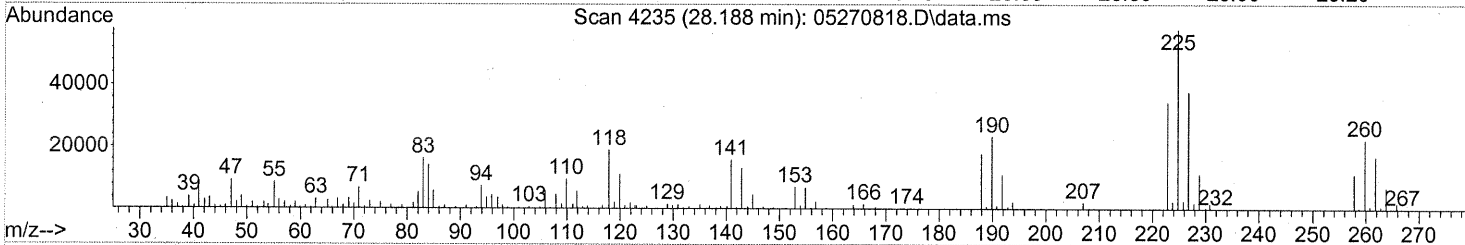
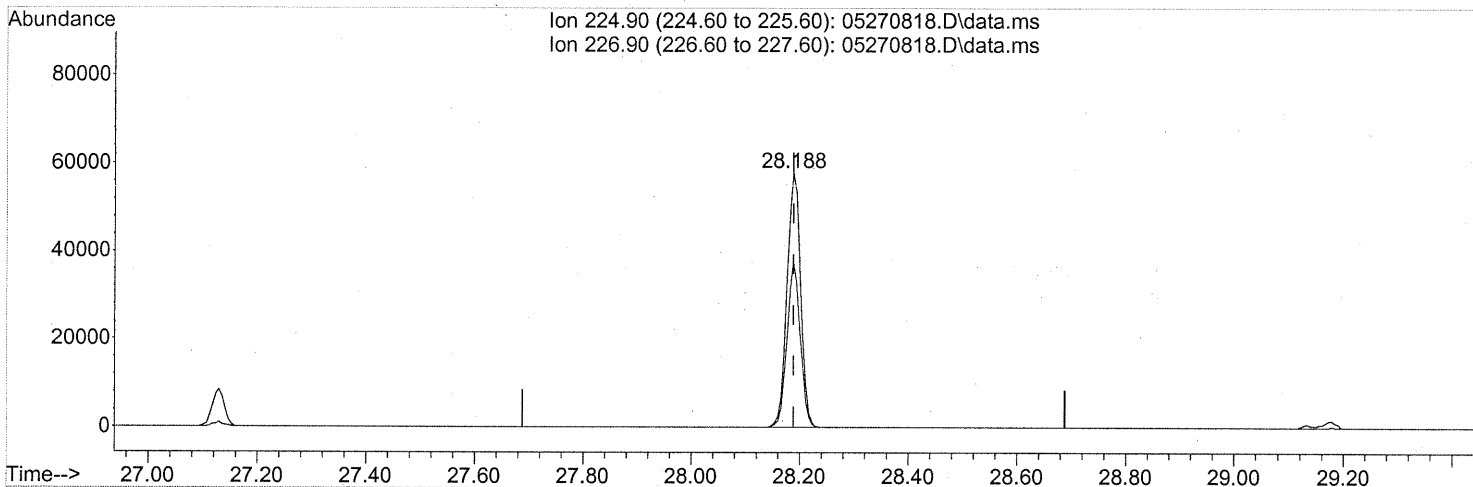
response 79027

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	12.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 04:13:12 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270818.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

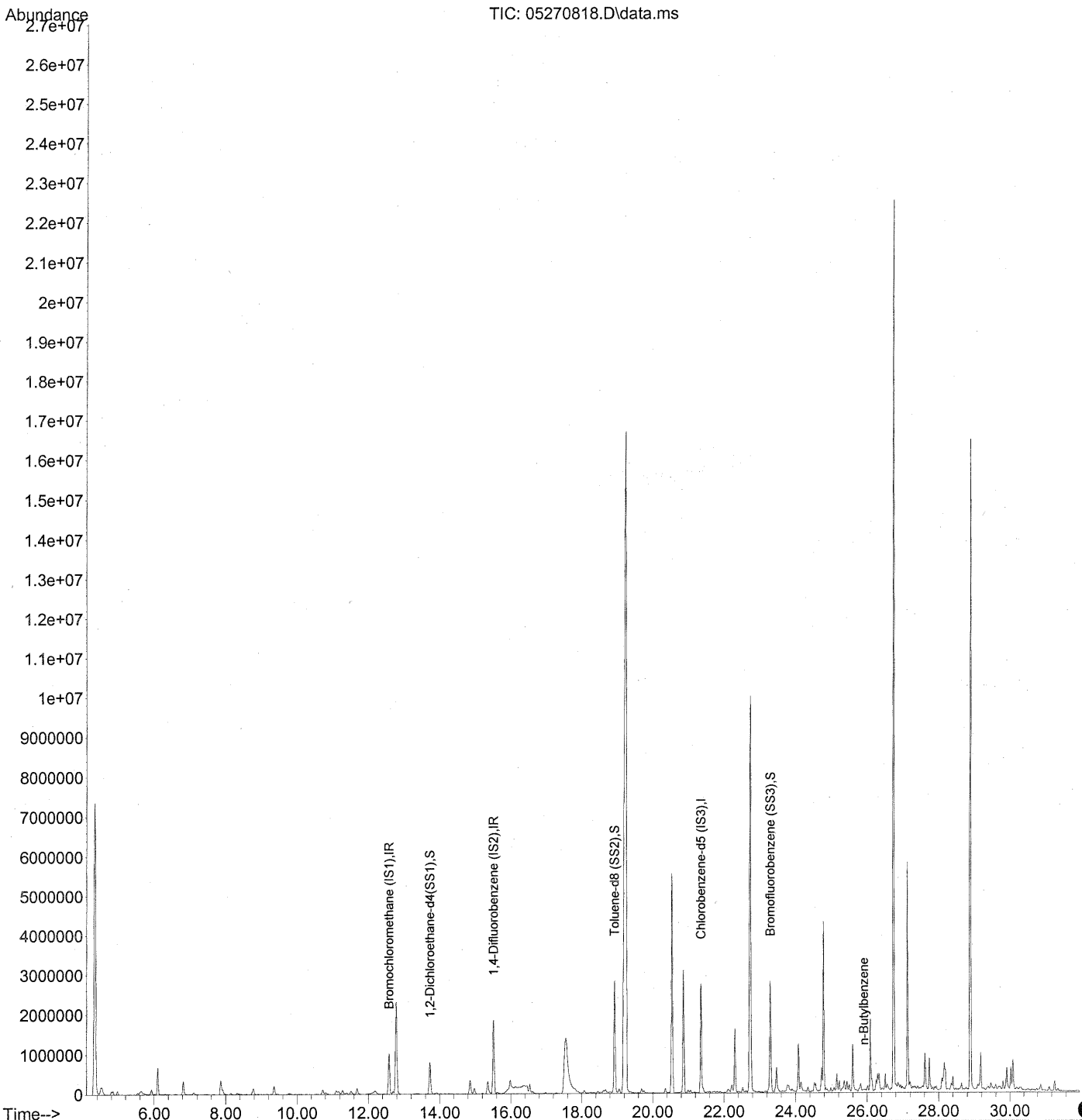
28.188min (-0.000) 2.66ng

response 100431

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	63.30
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 9:41 pm
Operator : WA
Sample : P0801483-021 (1000ml)
Misc : ENSR SG16B-05 (-3.1, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 13:12:57 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 9:41 pm
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 13:12:57 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

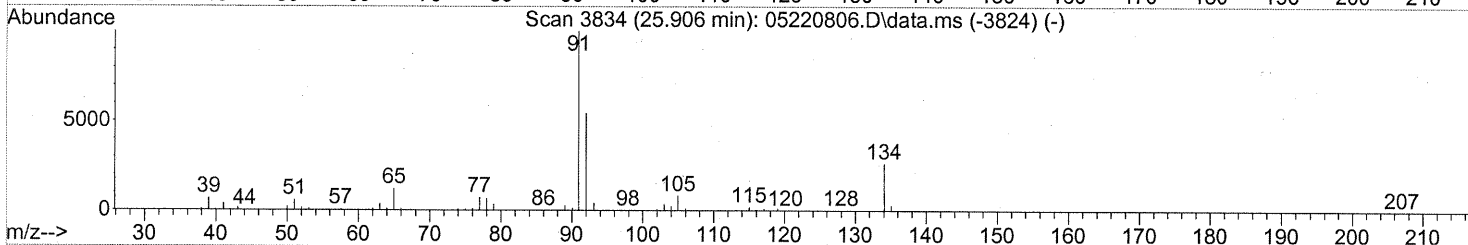
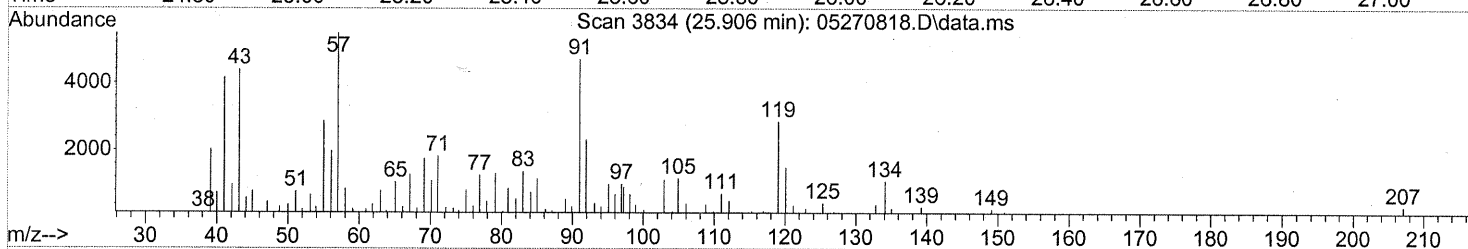
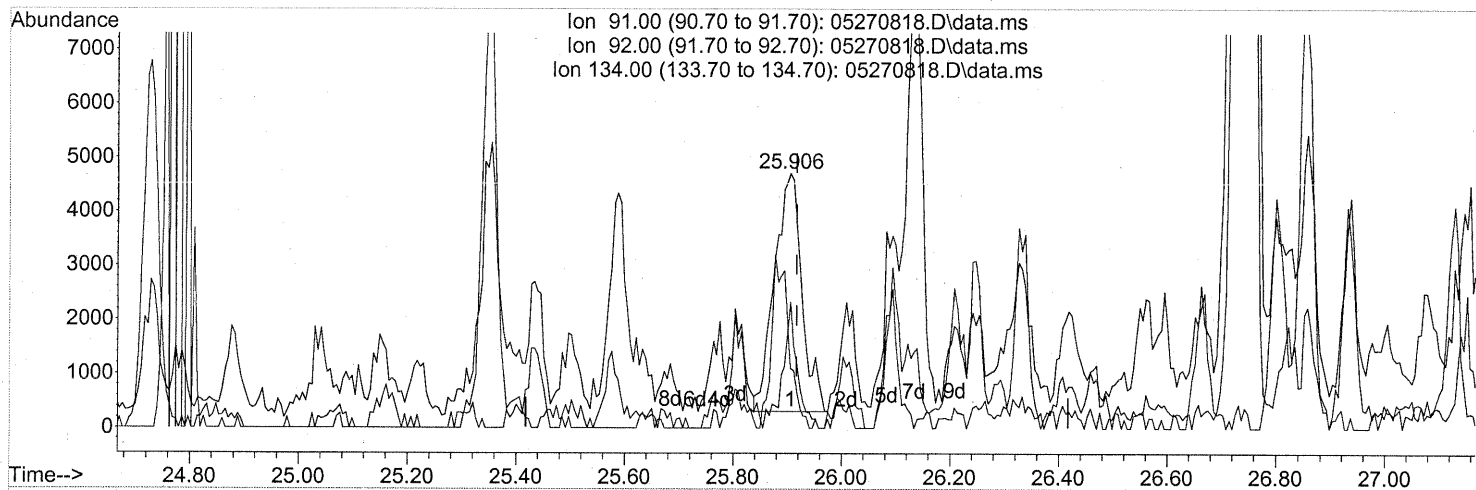
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	528439	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2230556	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1064161	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	833718	22.770	ng	-0.03
Spiked Amount	25.000			Recovery	=	91.08%
5) Toluene-d8 (SS2)	18.93	98	2412161	25.239	ng	-0.01
Spiked Amount	25.000			Recovery	=	100.96%
6) Bromofluorobenzene (SS3)	23.29	174	1022338	26.305	ng	0.00
Spiked Amount	25.000			Recovery	=	105.24%
Target Compounds						
7) tert-Butylbenzene	25.31	119	2682	N.D.		Qvalue
8) n-Butylbenzene	25.91	91	15428	0.112 ng	#	57

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270818.D
 Acq On : 27 May 2008 21:41
 Operator : WA
 Sample : P0801483-021 (1000ml)
 Misc : ENSR SG16B-05 (-3.1, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 13:12:57 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



(8) n-Butylbenzene
 25.906min (-0.011) 0.11ng
 response 15428

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	28.20#
134.00	28.80	0.00#
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG12B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00890

CAS Project ID: P0801483
 CAS Sample ID: P0801483-022

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/27 - 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.77	0.077	0.42	0.16	0.016	
74-87-3	Chloromethane	ND	0.15	0.077	ND	0.075	0.037	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.089	0.77	0.077	0.013	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.15	0.077	ND	0.060	0.030	
74-83-9	Bromomethane	ND	0.15	0.077	ND	0.040	0.020	
75-00-3	Chloroethane	0.14	0.15	0.077	0.051	0.058	0.029	J
64-17-5	Ethanol	32	7.7	0.077	17	4.1	0.041	B
67-64-1	Acetone	15	7.7	0.11	6.2	3.2	0.047	B
75-69-4	Trichlorofluoromethane	1.4	0.15	0.077	0.26	0.027	0.014	
107-13-1	Acrylonitrile	0.11	0.77	0.11	0.053	0.35	0.050	J
75-35-4	1,1-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.62	0.77	0.11	0.20	0.25	0.038	J
75-09-2	Methylene Chloride	0.40	0.77	0.077	0.11	0.22	0.022	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.077	ND	0.049	0.025	
76-13-1	Trichlorotrifluoroethane	0.63	0.15	0.086	0.082	0.020	0.011	
75-15-0	Carbon Disulfide	1.1	0.77	0.18	0.36	0.25	0.059	B
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
75-34-3	1,1-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
1634-04-4	Methyl tert-Butyl Ether	0.33	0.15	0.077	0.092	0.043	0.021	
108-05-4	Vinyl Acetate	1.3	7.7	0.25	0.36	2.2	0.070	J, B
78-93-3	2-Butanone (MEK)	7.0	0.77	0.077	2.4	0.26	0.026	B
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
108-20-3	Diisopropyl Ether	ND	0.77	0.091	ND	0.18	0.022	
67-66-3	Chloroform	270	0.15	0.091	56	0.032	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG12B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-022

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00890

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/27 - 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.77	0.079	ND	0.18	0.019	
107-06-2	1,2-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
71-43-2	Benzene	1.7	0.15	0.077	0.53	0.048	0.024	
56-23-5	Carbon Tetrachloride	7.8	0.15	0.077	1.2	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.77	0.077	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.077	ND	0.033	0.017	
75-27-4	Bromodichloromethane	0.67	0.15	0.077	0.10	0.023	0.011	
79-01-6	Trichloroethene	1.6	0.15	0.077	0.29	0.029	0.014	
123-91-1	1,4-Dioxane	0.15	0.77	0.094	0.041	0.21	0.026	J
80-62-6	Methyl Methacrylate	ND	0.77	0.12	ND	0.19	0.028	
142-82-5	n-Heptane	0.24	0.77	0.099	0.058	0.19	0.024	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.080	ND	0.17	0.018	
108-10-1	4-Methyl-2-pentanone	0.34	0.77	0.086	0.083	0.19	0.021	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.77	0.097	ND	0.17	0.021	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
108-88-3	Toluene	1.3	0.77	0.077	0.35	0.20	0.020	
591-78-6	2-Hexanone	0.39	0.77	0.12	0.094	0.19	0.029	J
124-48-1	Dibromochloromethane	ND	0.15	0.10	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.083	ND	0.020	0.011	
111-65-9	n-Octane	ND	0.77	0.077	ND	0.16	0.016	
127-18-4	Tetrachloroethene	5.1	0.15	0.077	0.75	0.023	0.011	
108-90-7	Chlorobenzene	0.31	0.15	0.079	0.068	0.033	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG12B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-022

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00890

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/27 - 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.10	0.77	0.095	0.024	0.18	0.022	J
179601-23-1	m,p-Xylenes	0.29	0.77	0.20	0.067	0.18	0.046	J
75-25-2	Bromoform	ND	0.77	0.12	ND	0.075	0.011	
100-42-5	Styrene	ND	0.77	0.12	ND	0.18	0.028	
95-47-6	o-Xylene	0.12	0.77	0.097	0.029	0.18	0.022	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.099	ND	0.022	0.014	
98-82-8	Cumene	0.12	0.77	0.086	0.024	0.16	0.018	J
103-65-1	n-Propylbenzene	ND	0.77	0.080	ND	0.16	0.016	
622-96-8	4-Ethyltoluene	ND	0.77	0.088	ND	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	ND	0.77	0.092	ND	0.16	0.019	
98-83-9	alpha-Methylstyrene	7.7	0.77	0.11	1.6	0.16	0.023	
95-63-6	1,2,4-Trimethylbenzene	0.12	0.77	0.11	0.025	0.16	0.022	J
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.030	0.026	
541-73-1	1,3-Dichlorobenzene	0.32	0.15	0.095	0.053	0.026	0.016	
106-46-7	1,4-Dichlorobenzene	0.47	0.15	0.086	0.078	0.026	0.014	
135-98-8	sec-Butylbenzene	ND	0.77	0.089	ND	0.14	0.016	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.77	0.10	ND	0.14	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.10	ND	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	0.12	ND	0.080	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	0.12	ND	0.021	0.016	
91-20-3	Naphthalene	0.42	0.31	0.11	0.080	0.059	0.022	
87-68-3	Hexachlorobutadiene	0.61	0.15	0.14	0.057	0.014	0.013	
98-06-6	tert-Butylbenzene	0.14	0.31	0.077	0.025	0.056	0.014	J
104-51-8	n-Butylbenzene	0.14	0.31	0.077	0.025	0.056	0.014	J

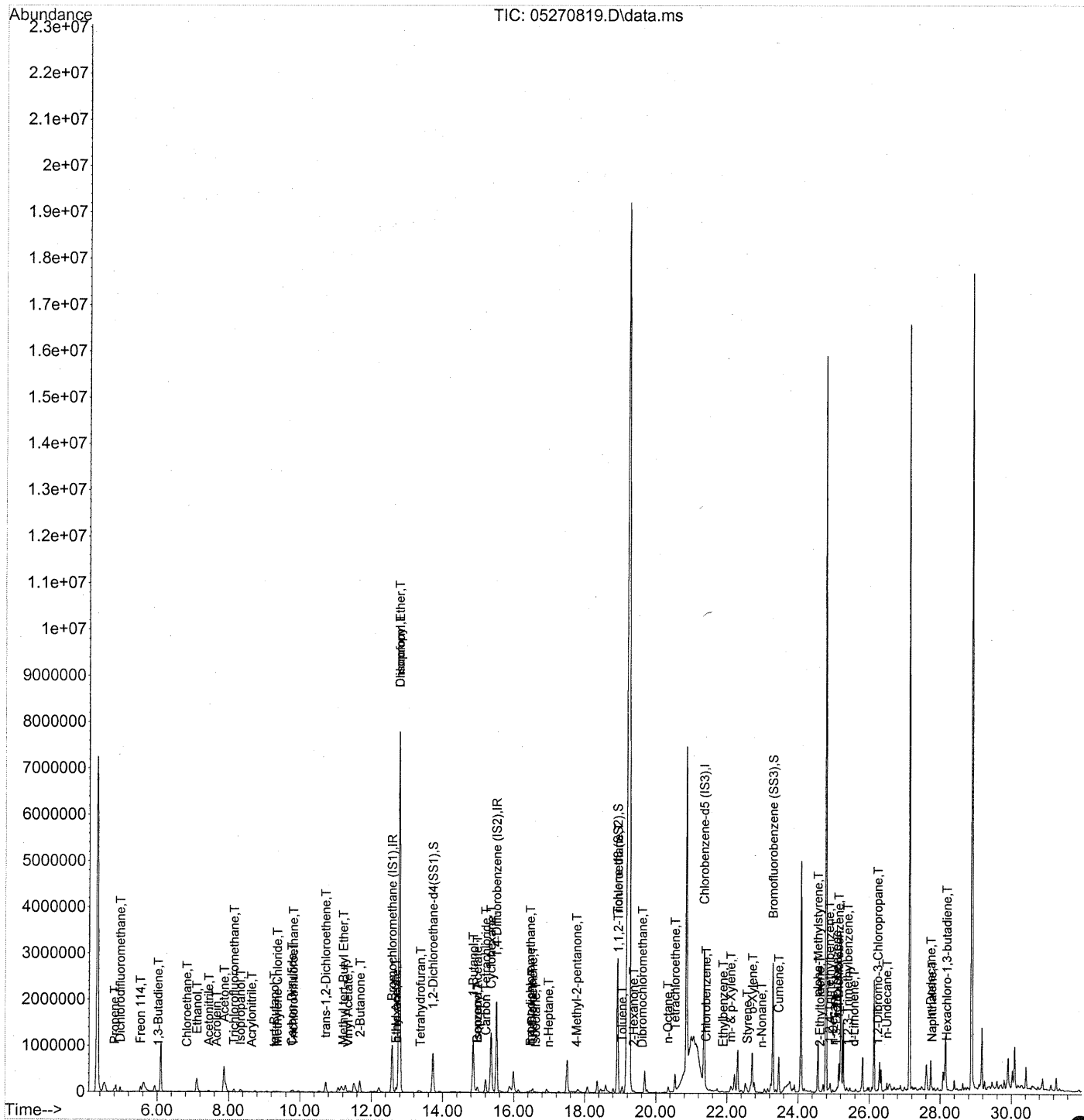
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Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 11:38:28 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	548178	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2341654	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1158324	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.73	65	854422	22.495	ng	0.00	
Spiked Amount	25.000			Recovery =	89.96%		✓
57) Toluene-d8 (SS2)	18.93	98	2456031	23.609	ng	0.00	
Spiked Amount	25.000			Recovery =	94.44%		✓
73) Bromofluorobenzene (SS3)	23.29	174	1063067	25.130	ng	0.00	
Spiked Amount	25.000			Recovery =	100.52%		✓

Target Compounds

						Qvalue
2) Propene	4.80	42	39409	0.910	ng	# 65
3) Dichlorodifluoromethane	4.97	85	108873	1.364	ng	99
4) Chloromethane	5.32	50	1199	N.D.	✓	
5) Freon 114	5.53	135	2286	0.058	ng	81
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.02	54	8854	0.230	ng	# 76
8) Bromomethane	6.51	94	360	N.D.	✓	
9) Chloroethane	6.83	64	2172	0.088	ng	98
10) Ethanol	7.11	45	600091m	20.820	ng	
11) Acetonitrile	7.44	41	55281	0.663	ng	99
12) Acrolein	7.66	56	22748	1.105	ng	95
13) Acetone	7.87	58	282967m	9.589	ng	
14) Trichlorofluoromethane	8.14	101	63989	0.935	ng	99
15) Isopropanol	8.33	45	119818	1.273	ng	95
16) Acrylonitrile	8.65	53	3333	0.074	ng	89
17) 1,1-Dichloroethene	9.18	96	825	N.D.	✓	
18) tert-Butanol	9.28	59	32008m	0.400	ng	
19) Methylene Chloride	9.36	84	8523	0.258	ng	# 77
20) Allyl Chloride	9.53	41	788	N.D.	✓	
21) Trichlorotrifluoroethane	9.81	151	12711	0.408	ng	90
22) Carbon Disulfide	9.77	76	91547	0.732	ng	98
23) trans-1,2-Dichloroethene	10.72	61	3521	0.072	ng	NR# 24
24) 1,1-Dichloroethane	11.09	63	2065	N.D.	✓	
25) Methyl tert-Butyl Ether	11.21	73	20488	0.215	ng	92
26) Vinyl Acetate	11.34	86	4496	0.824	ng	# 1
27) 2-Butanone	11.68	72	97731	4.538	ng	# 88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	932587	35.337	ng	NR# 1
30) Ethyl Acetate	12.69	61	15125	1.301	ng	76
31) n-Hexane	12.70	57	24910	0.425	ng	89

944

WA 5/31/08

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 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	8722388	174.493 ng	see dil	99
34) Tetrahydrofuran	13.37	72	9782	0.475 ng	#	85
35) Ethyl tert-Butyl Ether	13.50	87	465	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	1112	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	2068	N.D. ✓		
39) Isopropyl Acetate	14.97	61	1367	0.068 ng	#	1
40) 1-Butanol	14.86	56	964702	29.972 ng		85
41) Benzene	14.98	78	134094	1.094 ng		97
42) Carbon Tetrachloride	15.21	117	239227	5.066 ng		99
43) Cyclohexane	15.36	84	76886	1.612 ng	#	1
44) tert-Amyl Methyl Ether	15.88	73	1906	N.D. ✓		
45) 1,2-Dichloropropane	16.20	63	1179	N.D. ✓		
46) Bromodichloromethane	16.46	83	18073	0.436 ng		97
47) Trichloroethene	16.53	130	38196	1.016 ng		97
48) 1,4-Dioxane	16.50	88	2205	0.095 ng		86
49) Isooctane	16.62	57	13476	0.096 ng	#	19
50) Methyl Methacrylate	16.81	100	164	N.D. ✓		
51) n-Heptane	16.98	71	4994	0.153 ng	#	83
52) cis-1,3-Dichloropropene	17.69	75	51	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	7173	0.220 ng		94
54) trans-1,3-Dichloropropene	18.45	75	85	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	214317	7.074 ng	UR #	9
58) Toluene	19.06	91	120614	0.853 ng		96
59) 2-Hexanone	19.37	43	24341	0.250 ng	#	70
60) Dibromochloromethane	19.62	129	2426	0.064 ng		91
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.19	43	3869	N.D.		
63) n-Octane	20.34	57	3658	0.117 ng	UR	83
64) Tetrachloroethene	20.54	166	138517	3.310 ng		100
65) Chlorobenzene	21.41	112	19263	0.203 ng		94
66) Ethylbenzene	21.89	91	10805	0.067 ng		97
67) m- & p-Xylene	22.10	91	20425	0.188 ng		84
68) Bromoform	22.20	173	374	N.D. ✓		
69) Styrene	22.57	104	5603	0.058 ng	#	68
70) o-Xylene	22.72	91	9453	0.081 ng		77
71) n-Nonane	22.98	43	5525	0.066 ng		97
72) 1,1,2,2-Tetrachloroethane	22.67	83	296	N.D. ✓		
74) Cumene	23.46	105	11855	0.076 ng		100
75) alpha-Pinene	23.96	93	3957	N.D.		
76) n-Propylbenzene	24.09	91	7322	N.D. ✓		
77) 3-Ethyltoluene	24.23	105	6985	N.D.		
78) 4-Ethyltoluene	24.28	105	5537	N.D. ✓		
79) 1,3,5-Trimethylbenzene	24.38	105	3643	N.D. ✓		

Data Path : J:\MS13\DATA\2008_05\27\
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 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 11:38:28 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
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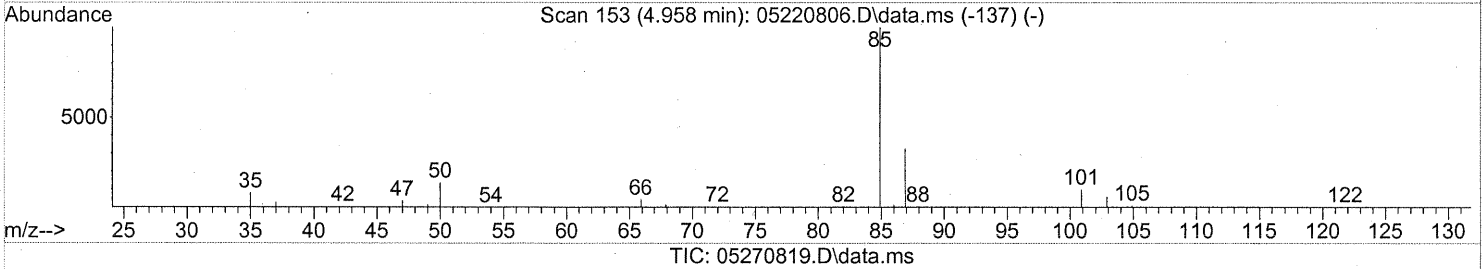
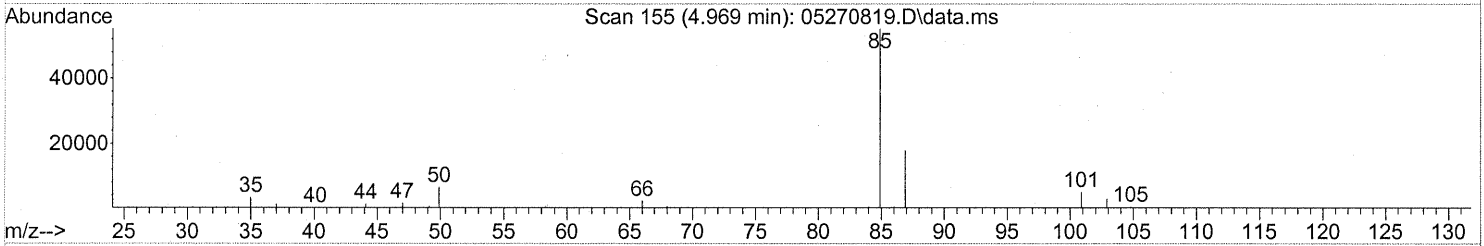
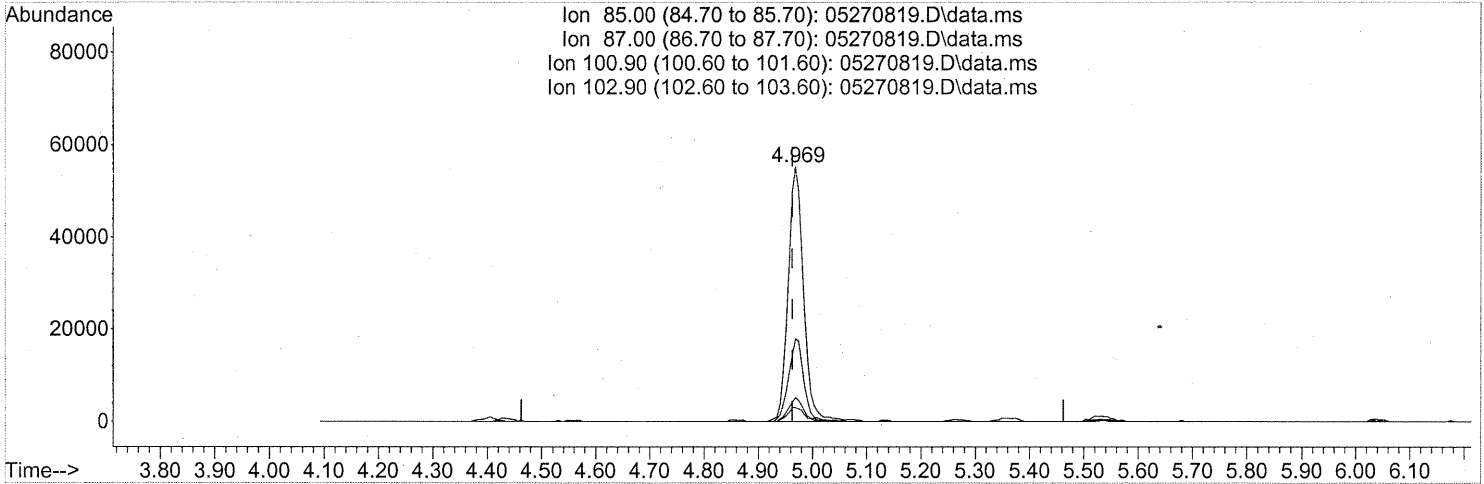
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	380395	5.027	ng	98
81) 2-Ethyltoluene	24.61	105	8457	0.050	ng	89
82) 1,2,4-Trimethylbenzene	24.88	105	11284	0.079	ng	90
83) n-Decane	24.98	57	22593	0.289	ng	77
84) Benzyl Chloride	25.05	91	3040	N.D.	✓	
85) 1,3-Dichlorobenzene	25.08	146	18224	0.205	ng	97
86) 1,4-Dichlorobenzene	25.15	146	26325	0.305	ng	95
87) sec-Butylbenzene	25.21	105	3575	N.D.	✓	
88) p-Isopropyltoluene	25.39	119	4117	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.40	105	8145	0.058	ng	91
90) 1,2-Dichlorobenzene	25.57	146	681	N.D.	✓	
91) d-Limonene	25.57	68	6410	0.113	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.24	157	1484	0.057	ng	# 22
93) n-Undecane	26.50	57	70446	0.860	ng	# 68
94) 1,2,4-Trichlorobenzene	27.64	180	1429	N.D.	✓	
95) Naphthalene	27.77	128	51099	0.272	ng	96
96) n-Dodecane	27.73	57	214918	2.637	ng	84
97) Hexachloro-1,3-butadiene	28.19	225	16271	0.396	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 1.36ng

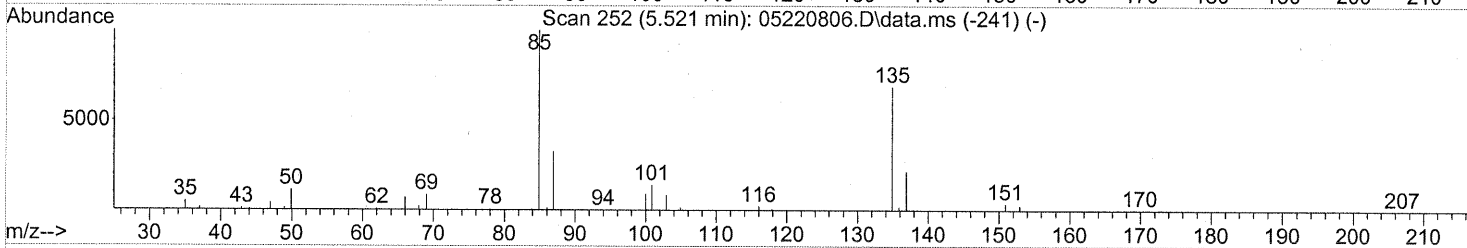
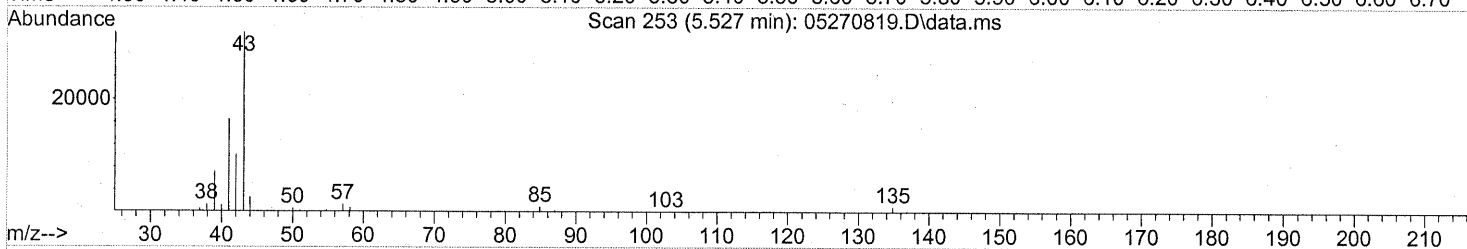
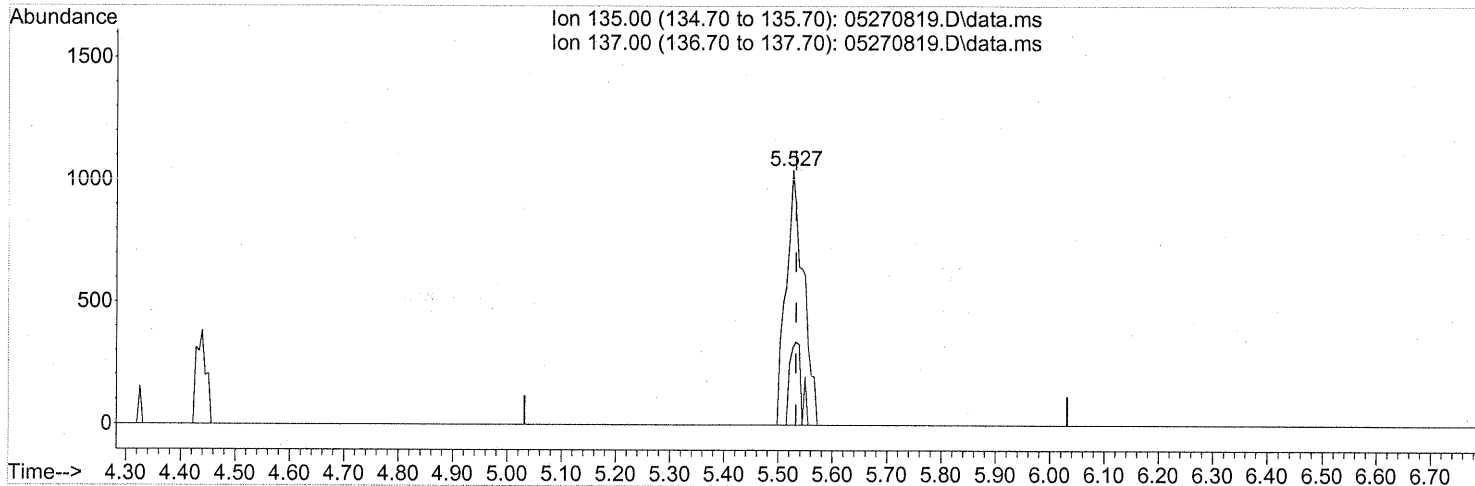
response 108873

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.83
100.90	9.30	9.02
102.90	6.00	5.55

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TIC: 05270819.D\data.ms

(5) Freon 114 (T)

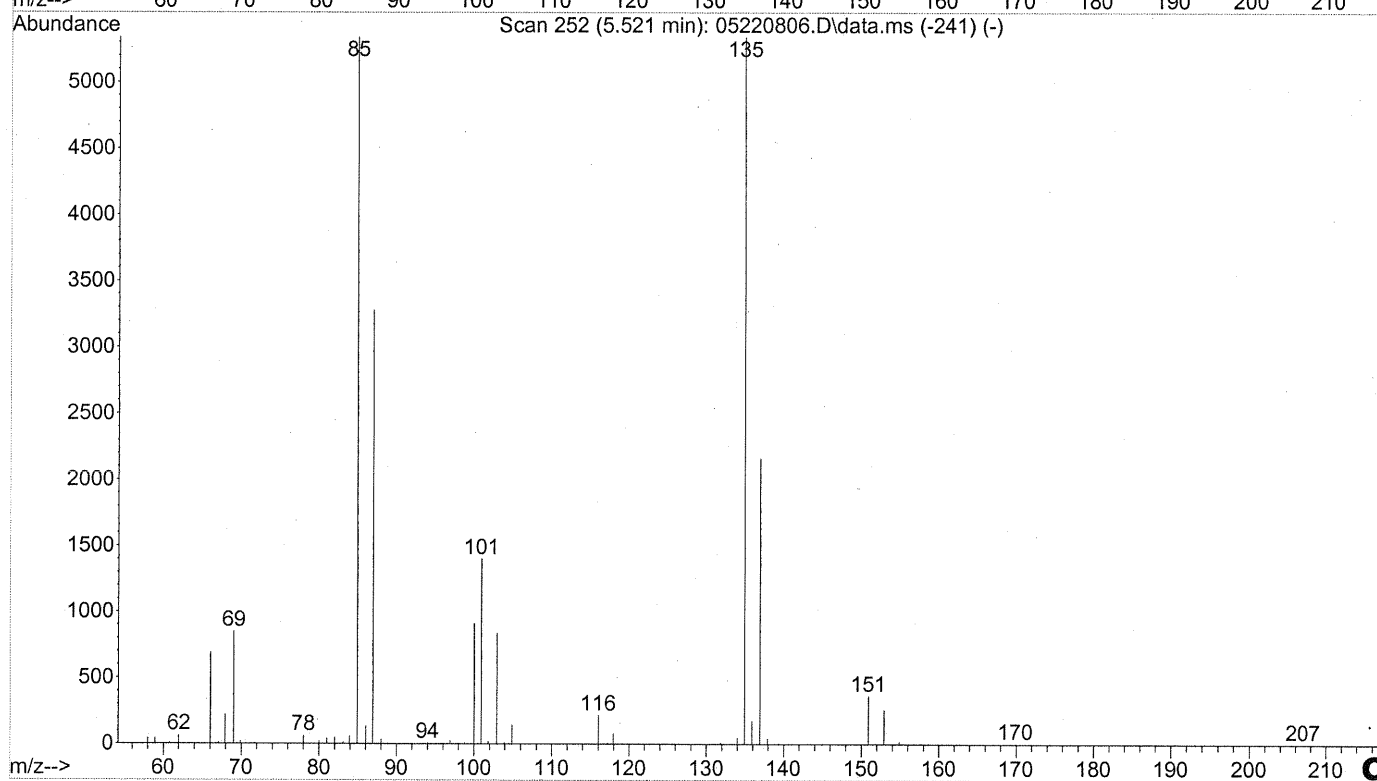
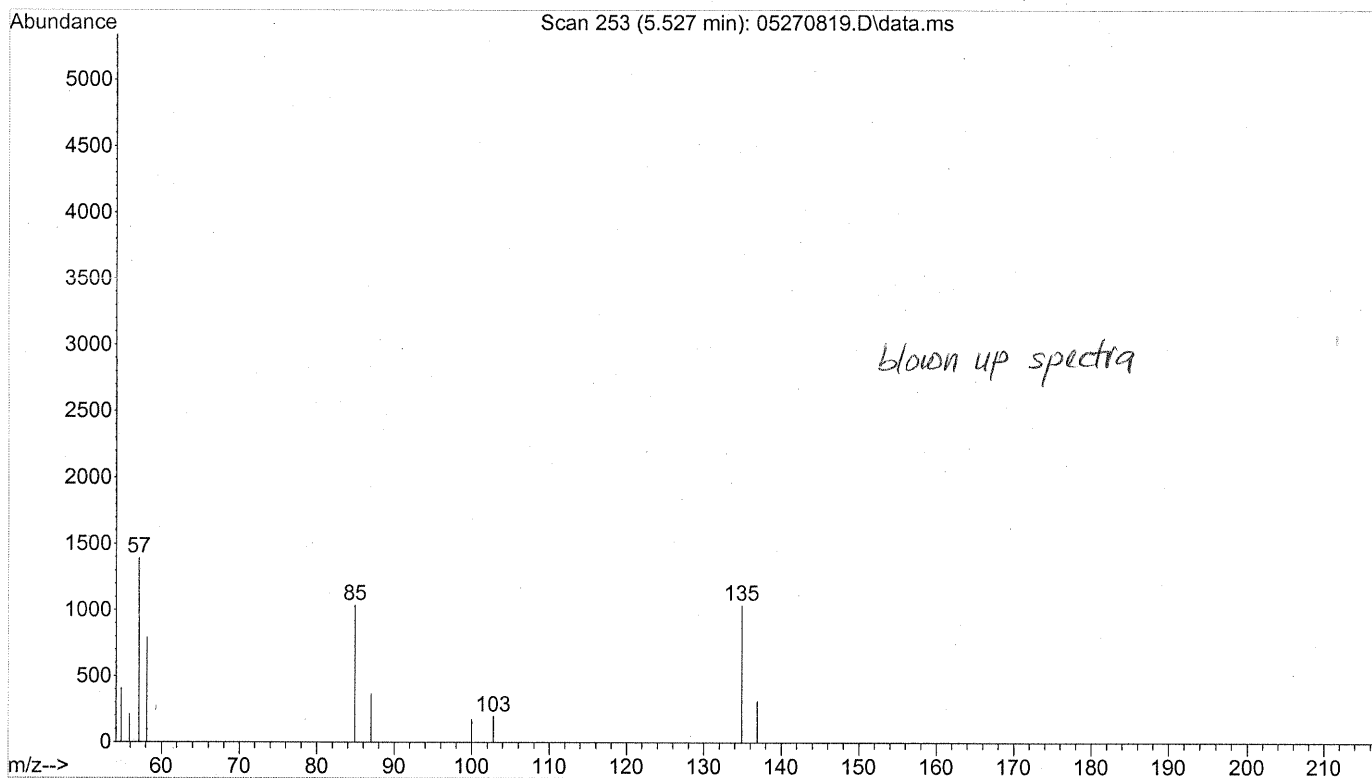
5.527min (-0.006) 0.06ng

response 2286

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	21.22
0.00	0.00	0.00
0.00	0.00	0.00

see blown up spectra

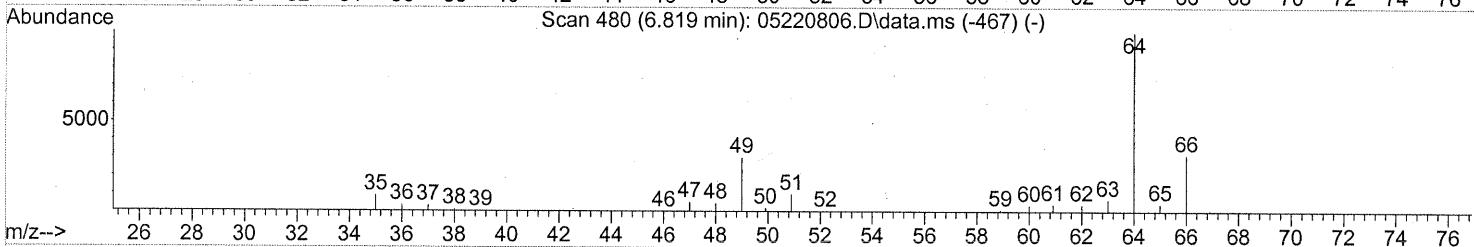
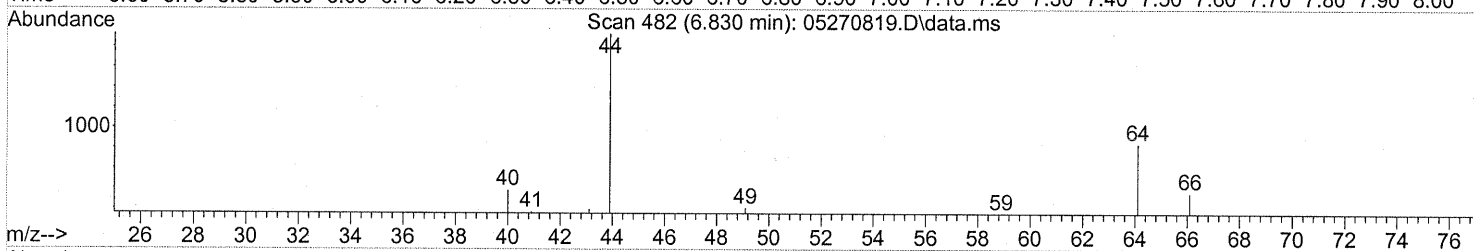
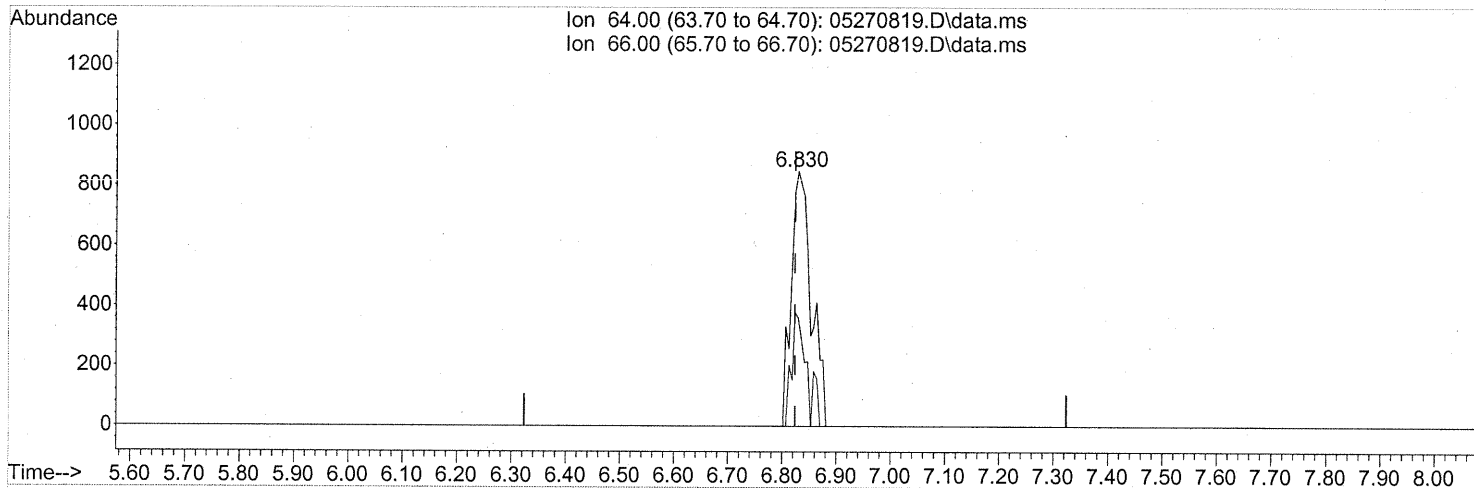
File : J:\MS13\DATA\2008_05\27\05270819.D
Operator : WA
Acquired : 27 May 2008 22:24 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-022 (1000ml)
Misc Info : ENSR SG12B-05 (-2.8, 3.6)
Vial Number: 3



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
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TIC: 05270819.D\data.ms

(9) Chloroethane (T)

6.830min (+0.006) 0.09ng

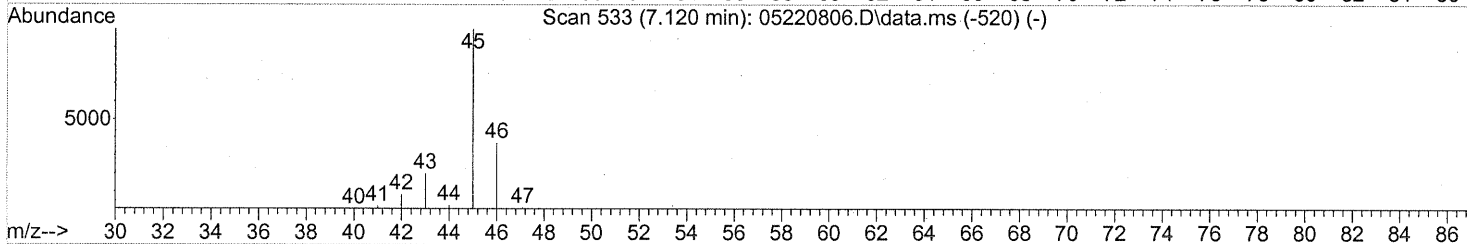
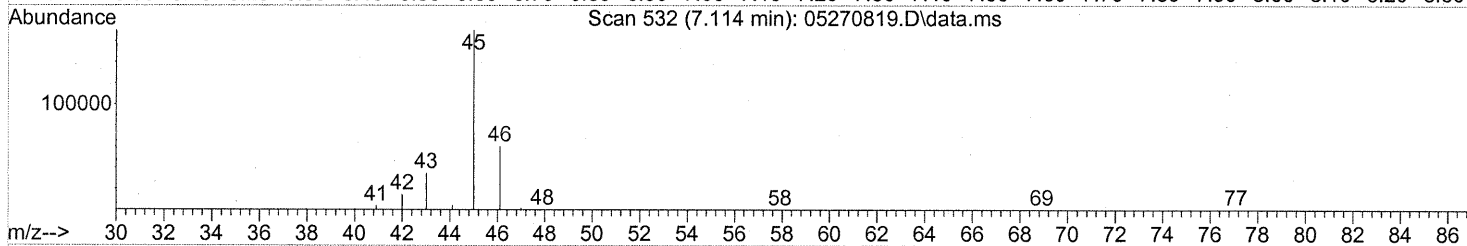
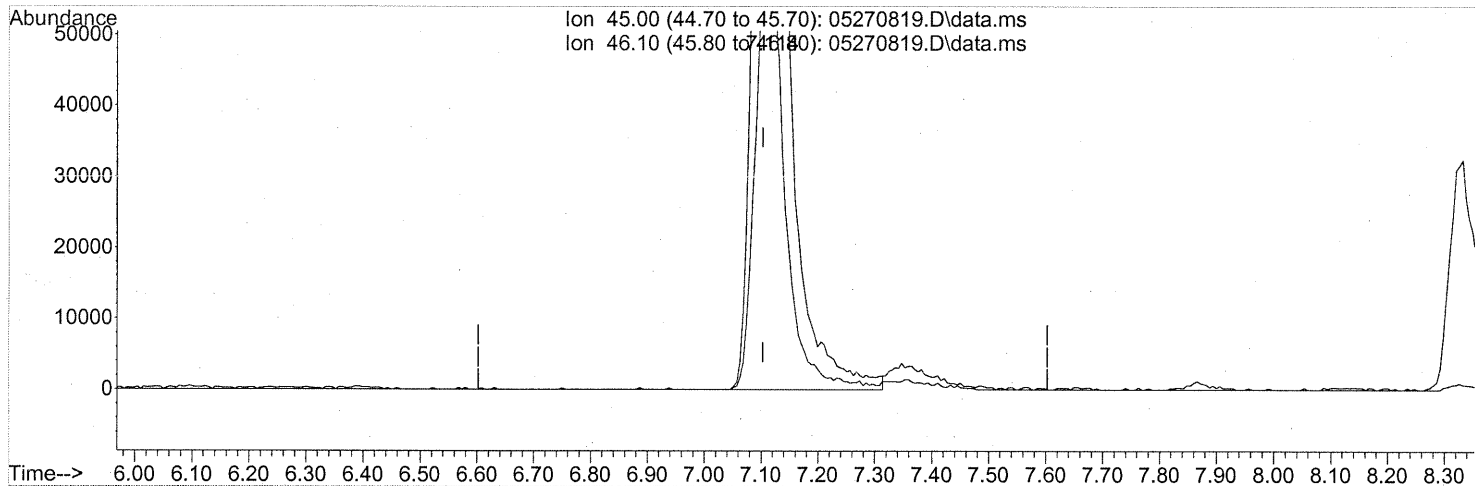
response 2172

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	28.41
0.00	0.00	0.00
0.00	0.00	0.00

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TIC: 05270819.D\data.ms

(10) Ethanol (T)

7.114min (+0.011) 20.17ng

response 581220

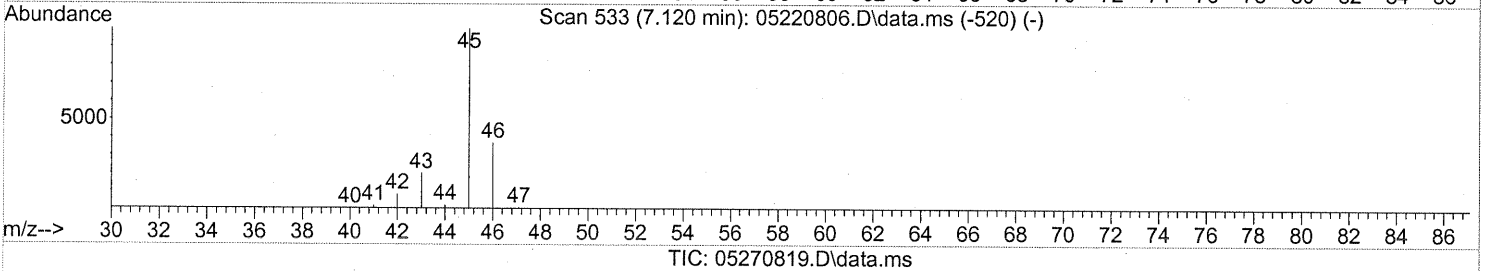
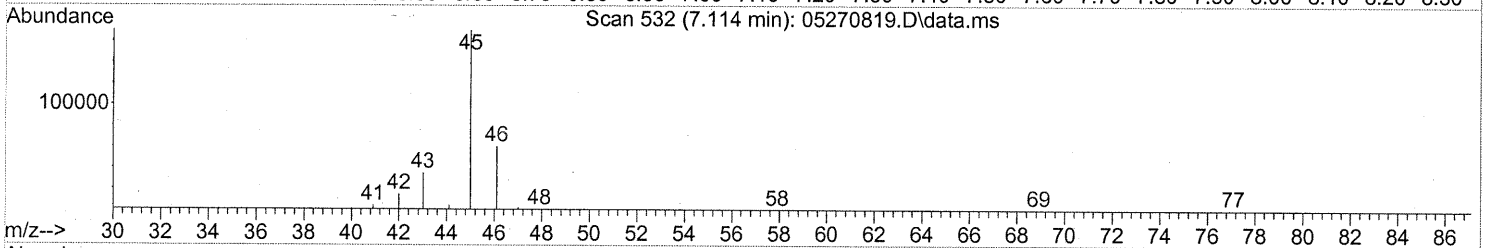
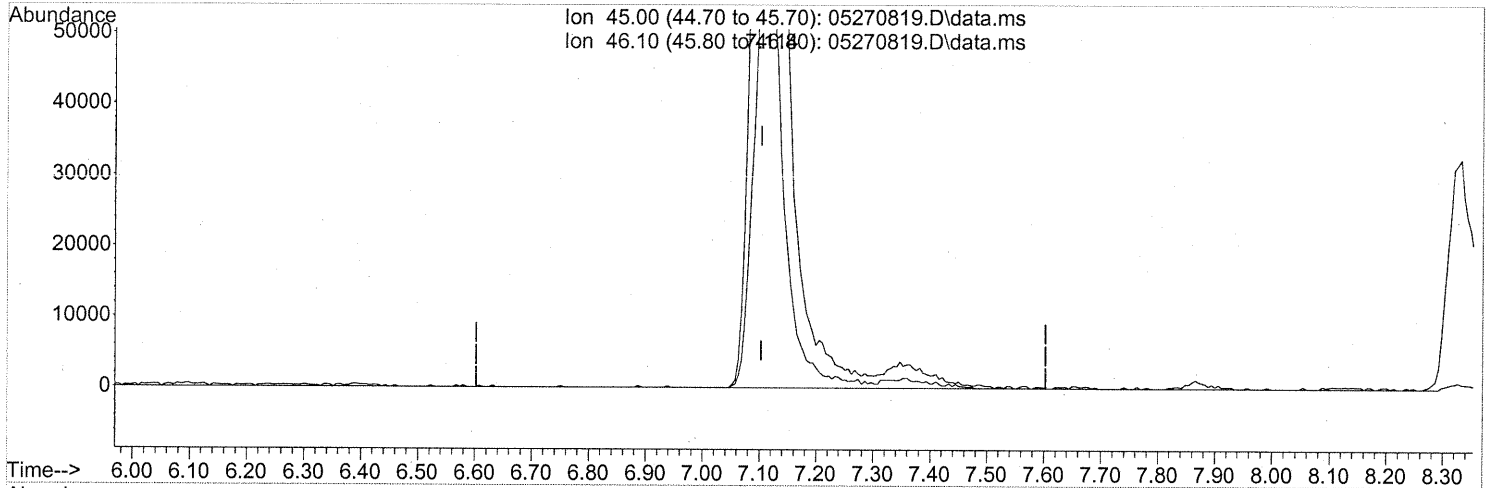
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.97
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Quantitation Report (Qedit)

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 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.114min (+0.011) 20.82ng m

response 600091

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.78
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

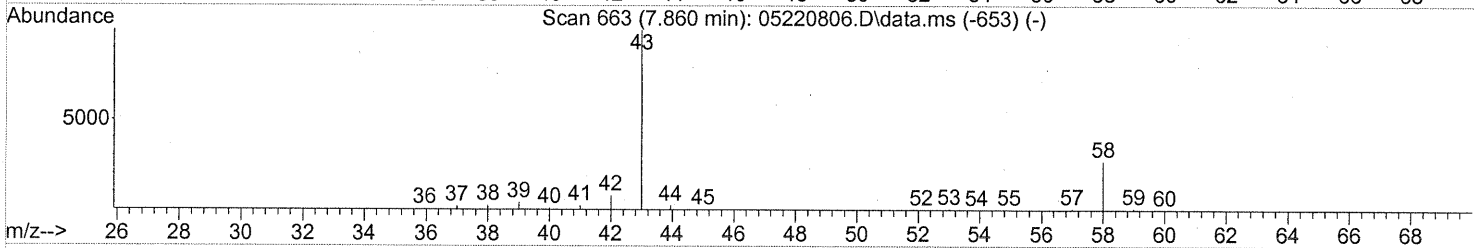
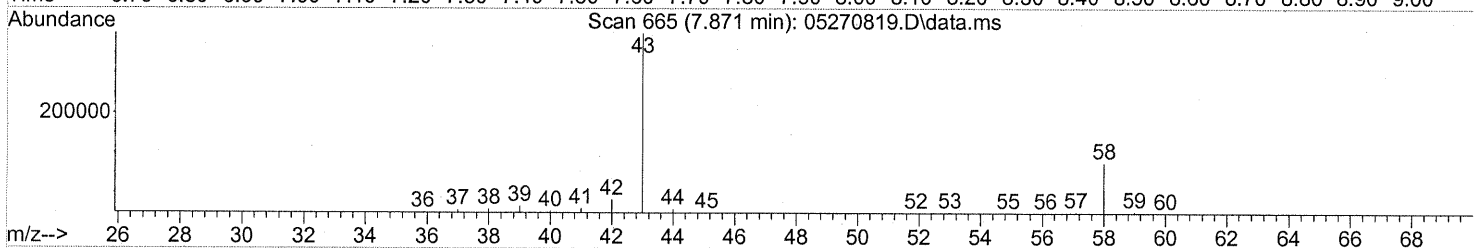
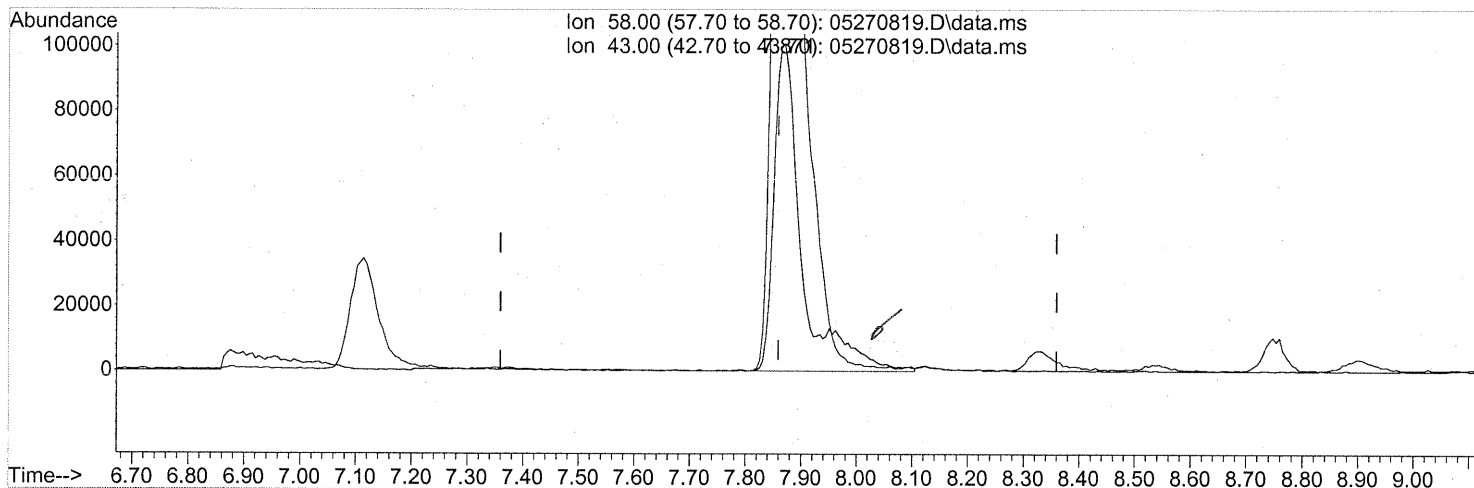
WA 5/31/08

F 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(13) Acetone (T)
 7.871min (+0.011) 11.68ng
 response 344585

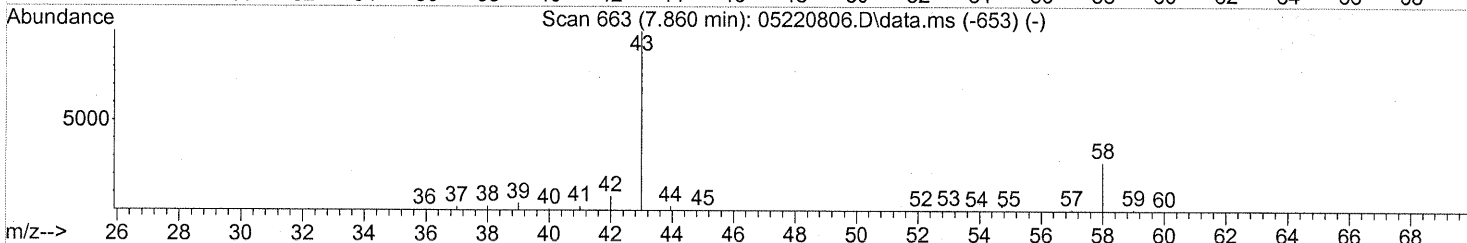
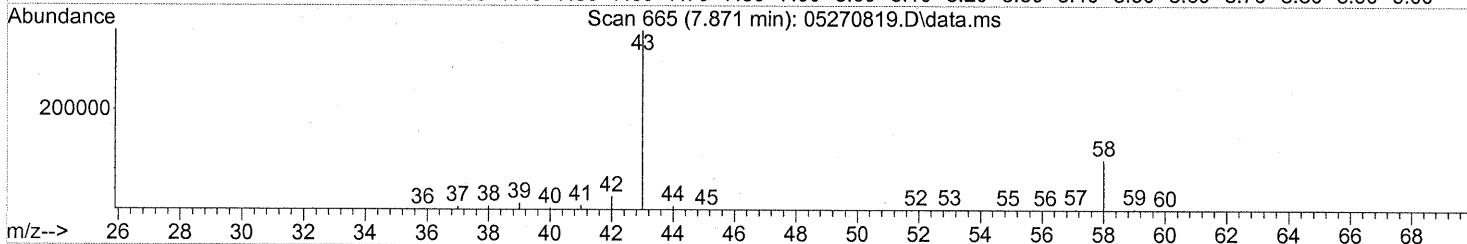
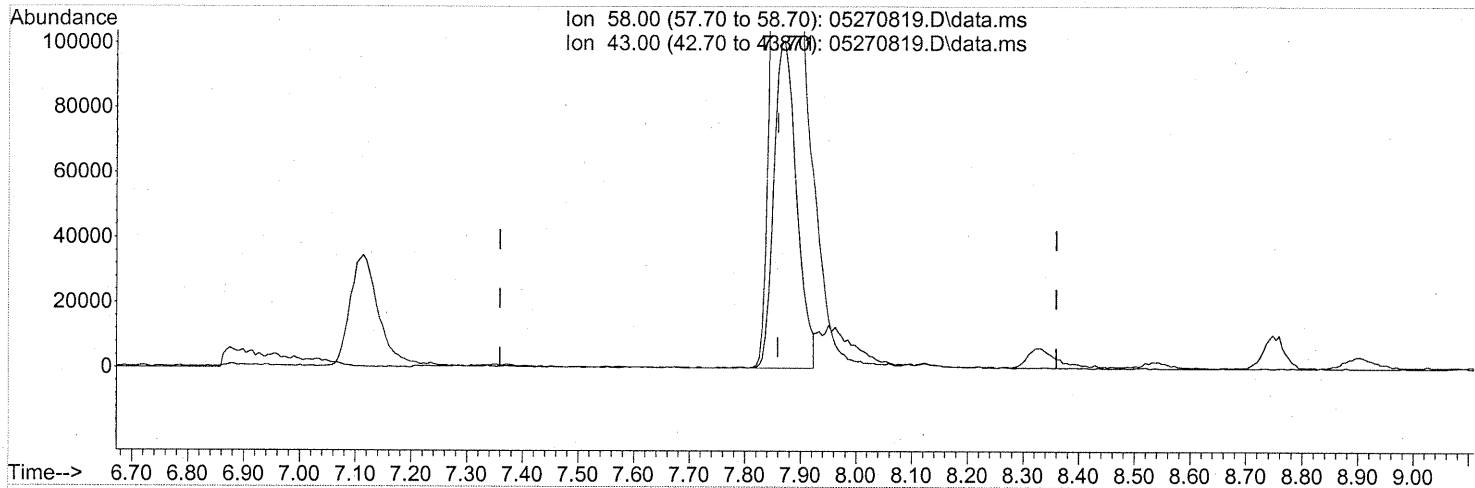
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	320.12#
0.00	0.00	0.00
0.00	0.00	0.00

interf-shoulder

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(13) Acetone (T)
 7.871min (+0.011) 9.59ng m
 response 282967

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	389.82#
0.00	0.00	0.00
0.00	0.00	0.00

10% shoulder

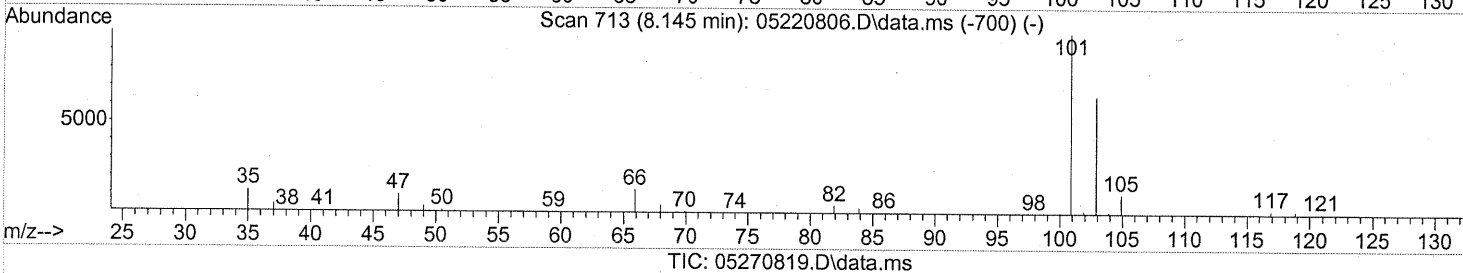
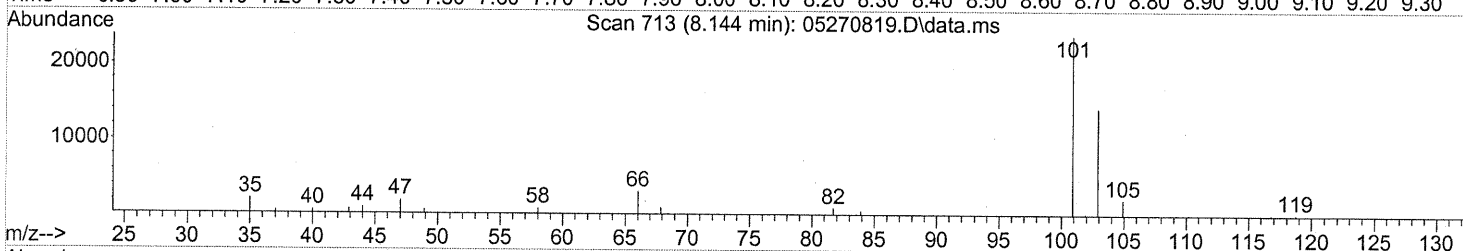
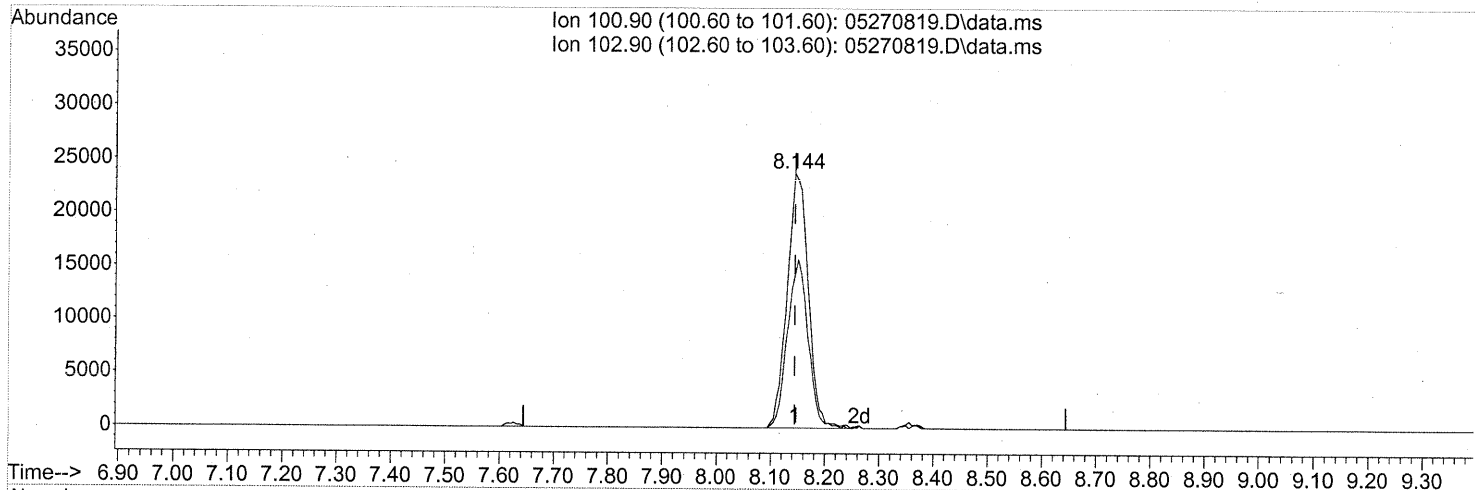
WA 5/31/08

P 5/26/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.144min (-0.000) 0.93ng

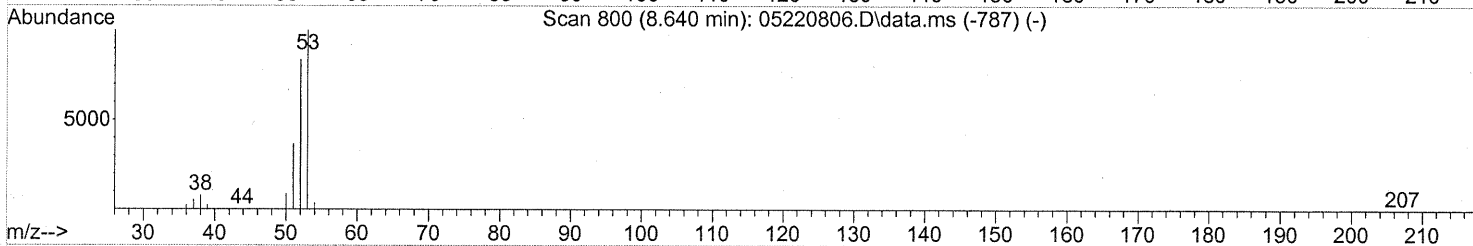
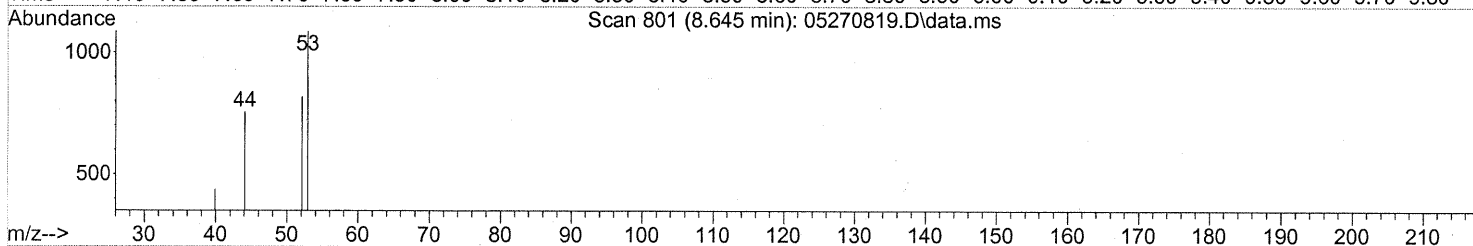
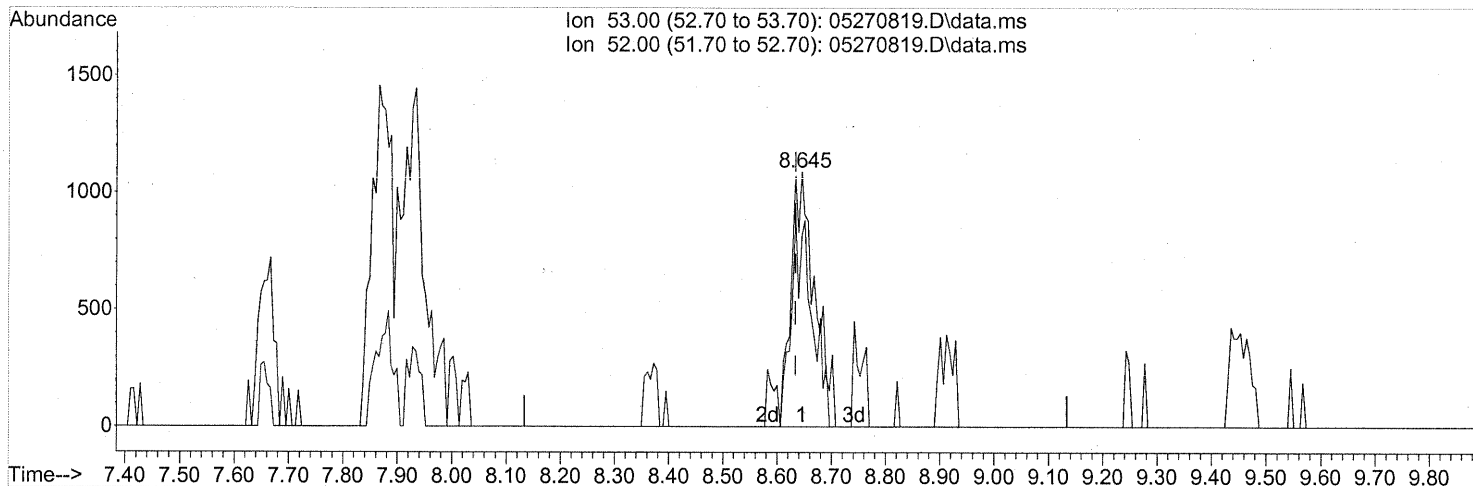
response 63989

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(16) Acrylonitrile (T)

8.645min (+0.011) 0.07ng

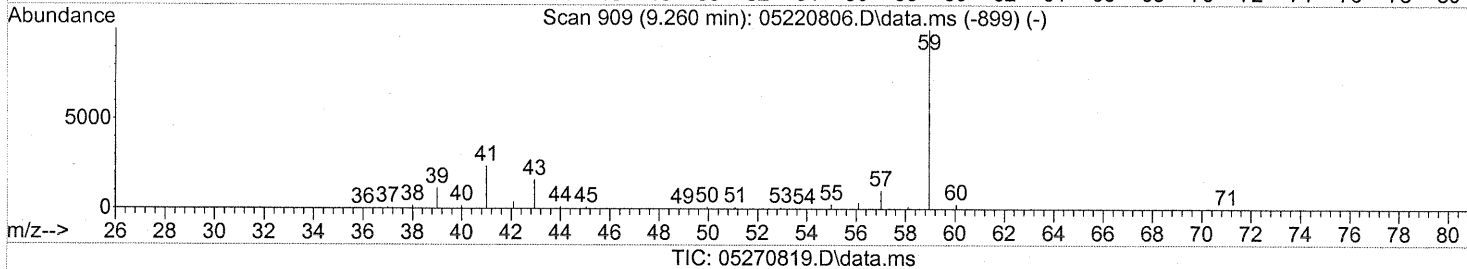
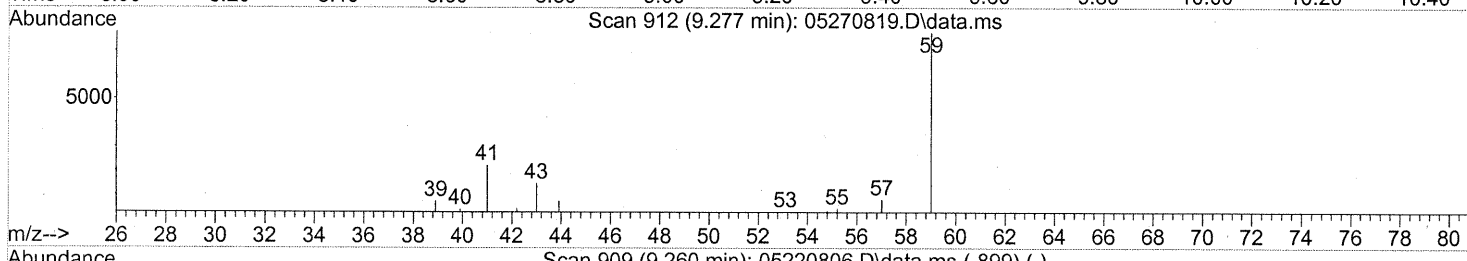
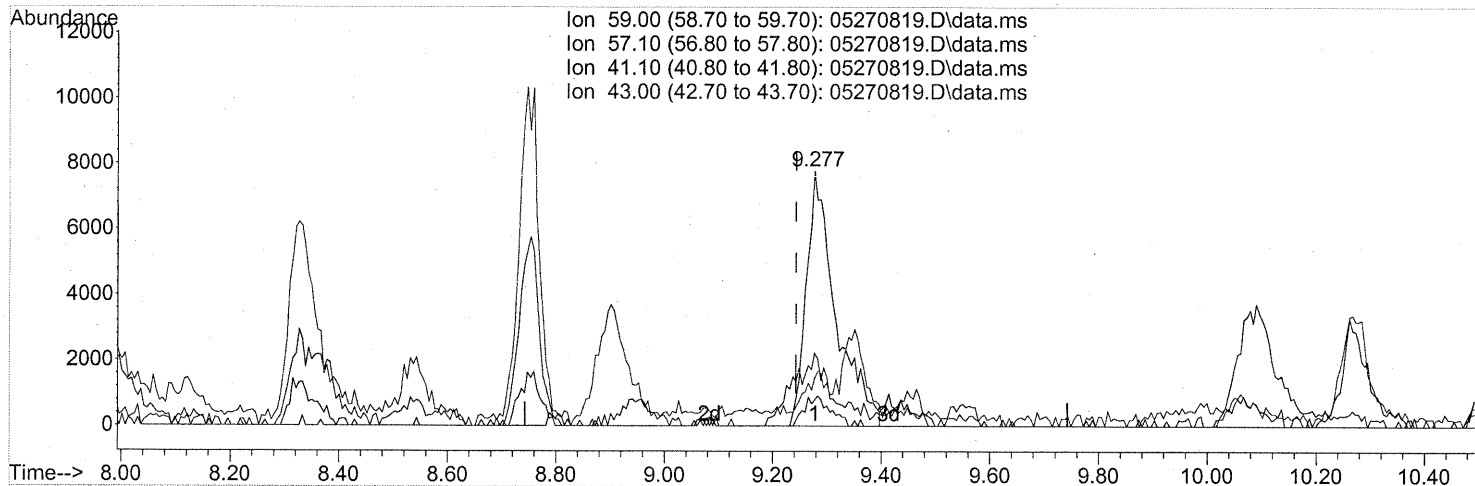
response 3333

Ion	Exp%	Act%
53.00	100	100
52.00	82.50	72.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.277min (+0.034) 0.37ng

response 29290

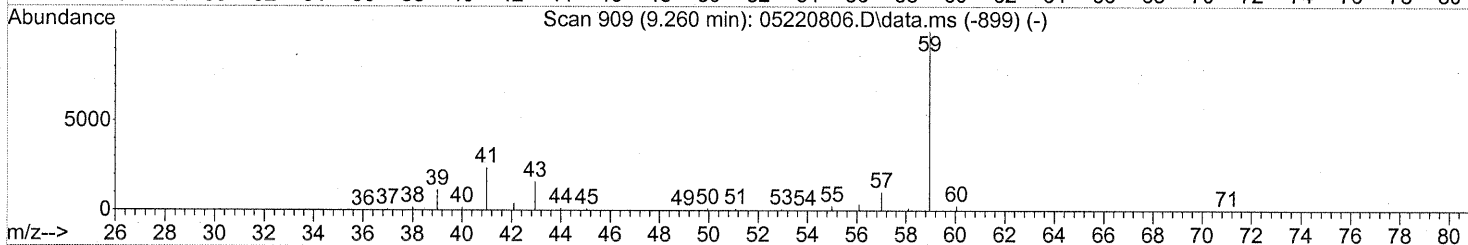
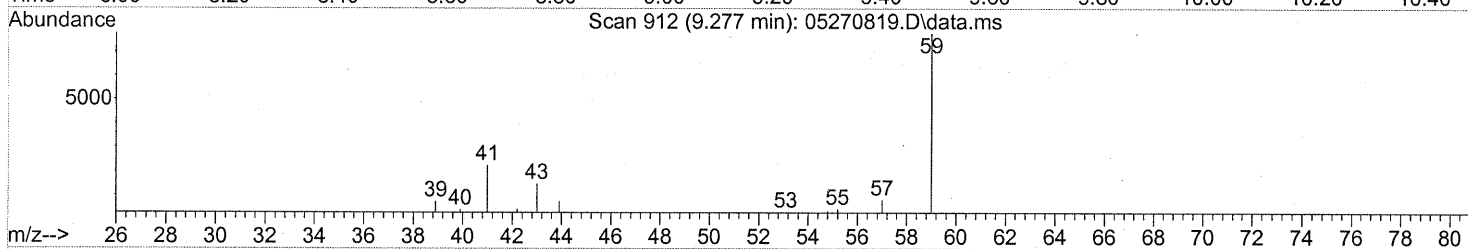
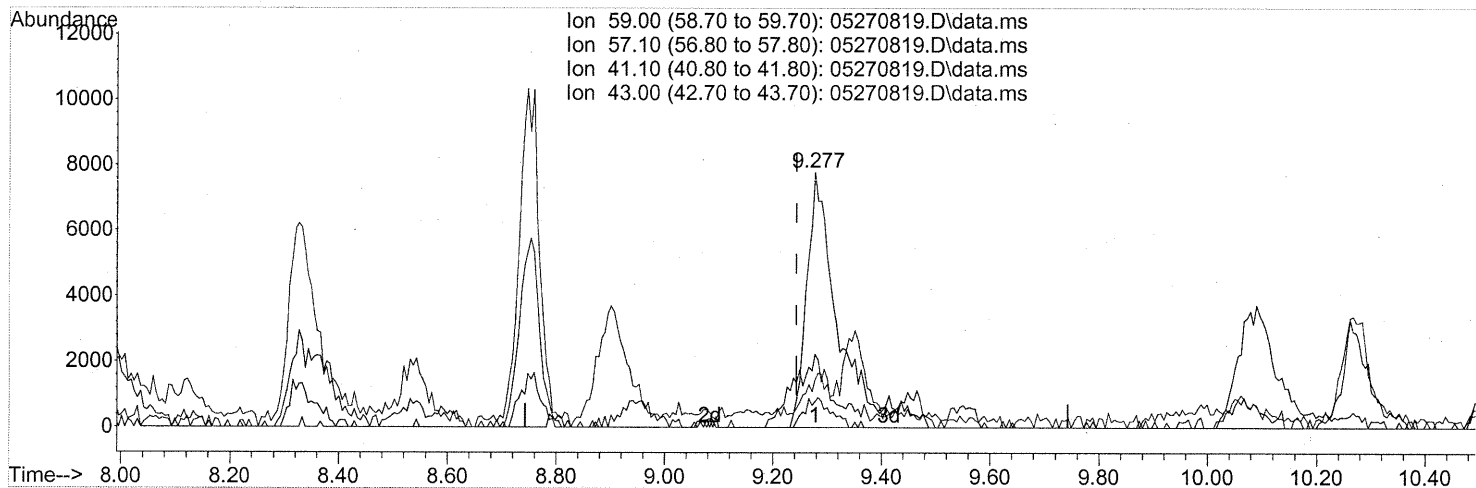
split peaks

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	10.10
41.10	20.10	24.23
43.00	12.30	14.23

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)
 9.277min (+0.034) 0.40ng m
 response 32008

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	9.24
41.10	20.10	22.18
43.00	12.30	13.02

int. whole peaks

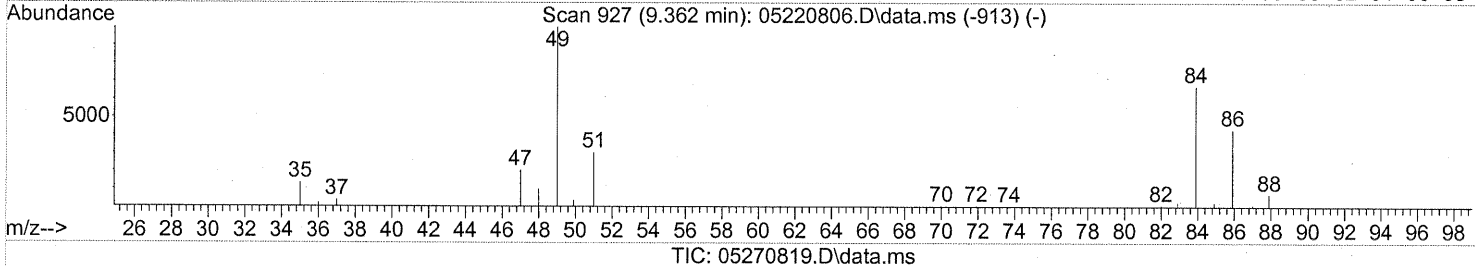
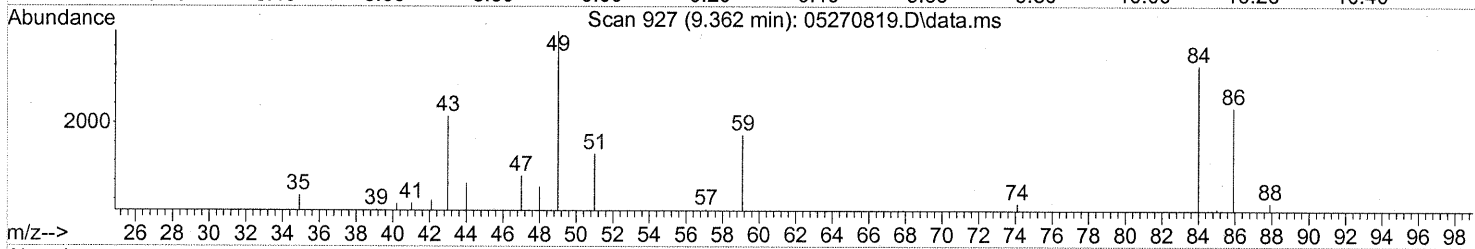
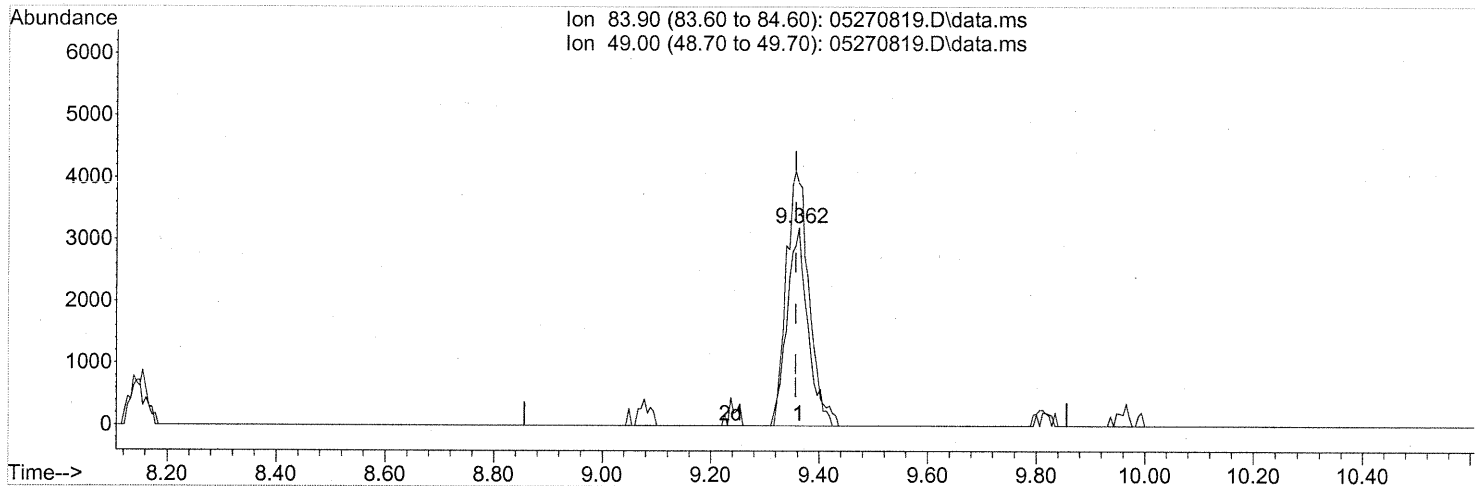
101 5/31/08

Foc/2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.26ng

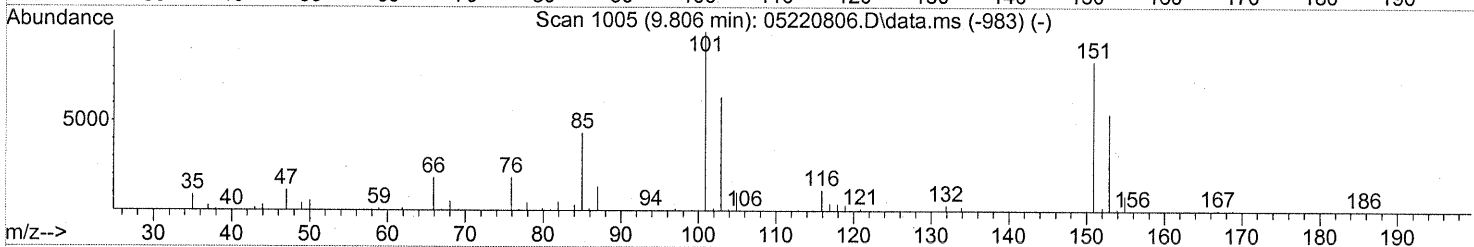
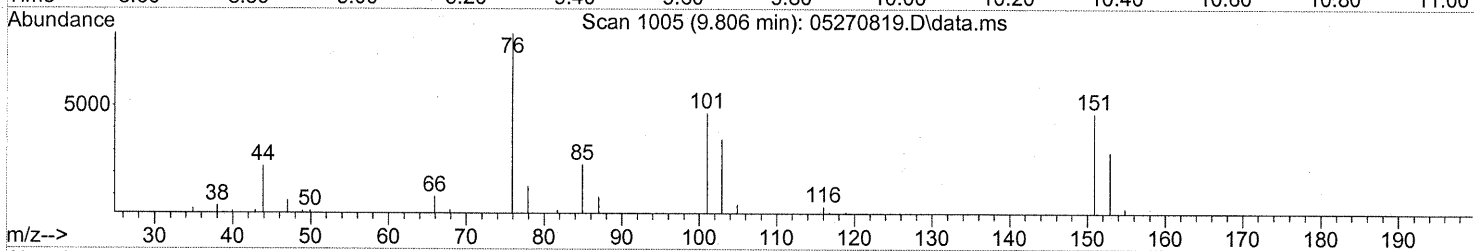
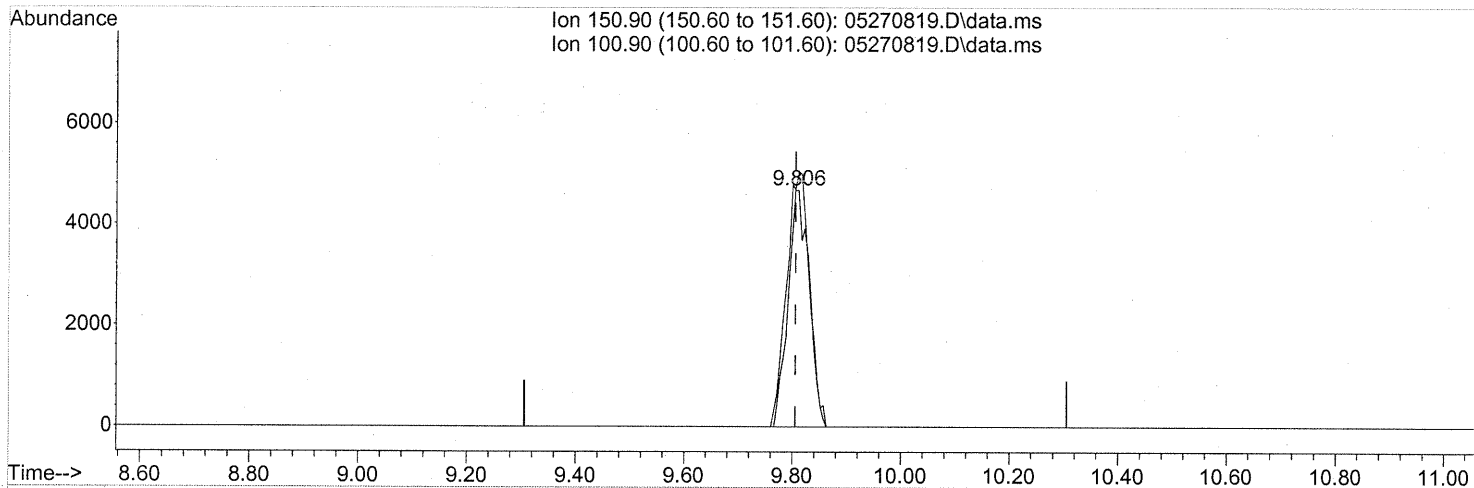
response 8523

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	140.56#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (-0.000) 0.41ng

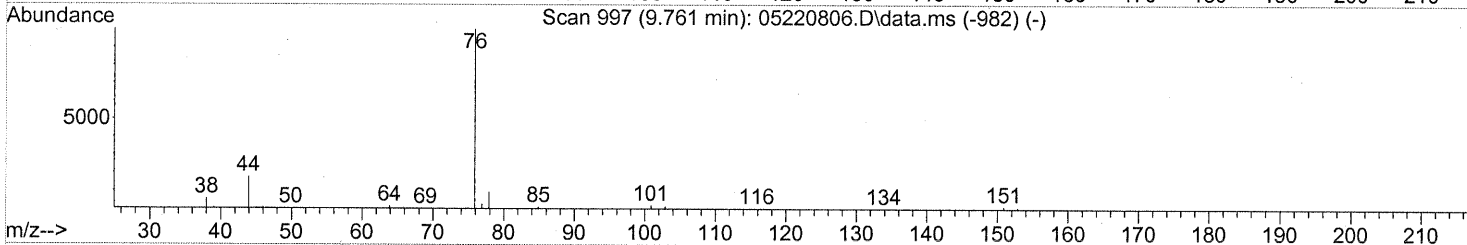
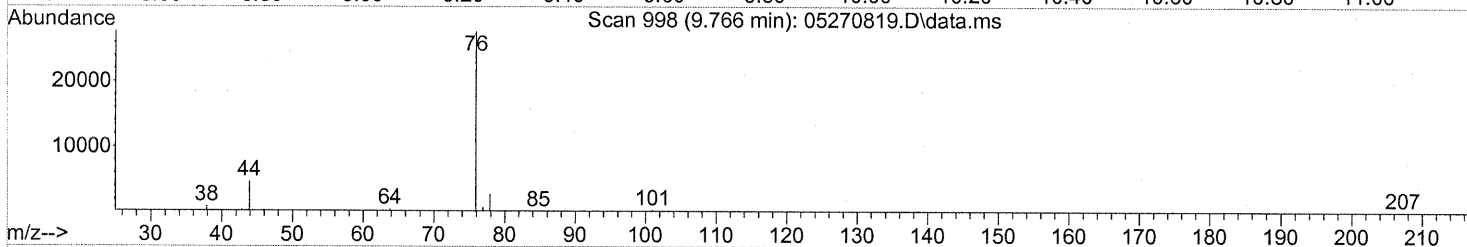
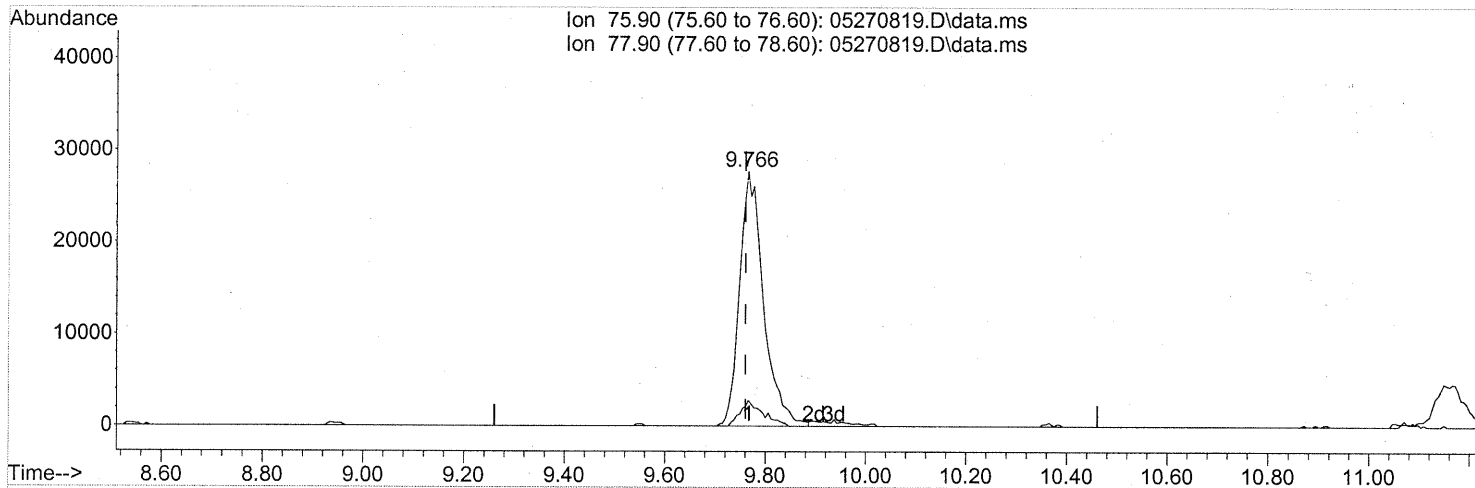
response 12711

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	115.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(22) Carbon Disulfide (T)

9.766min (+0.006) 0.73ng

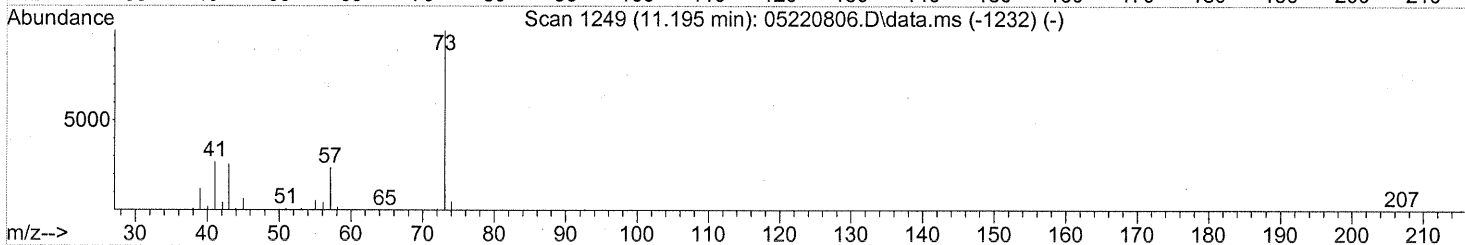
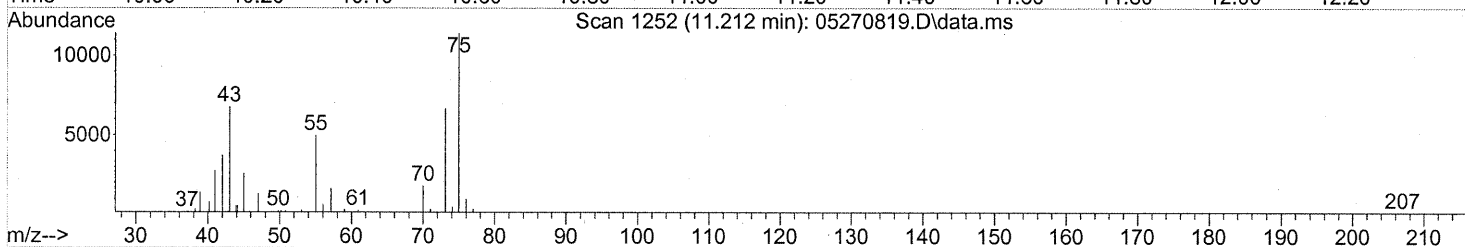
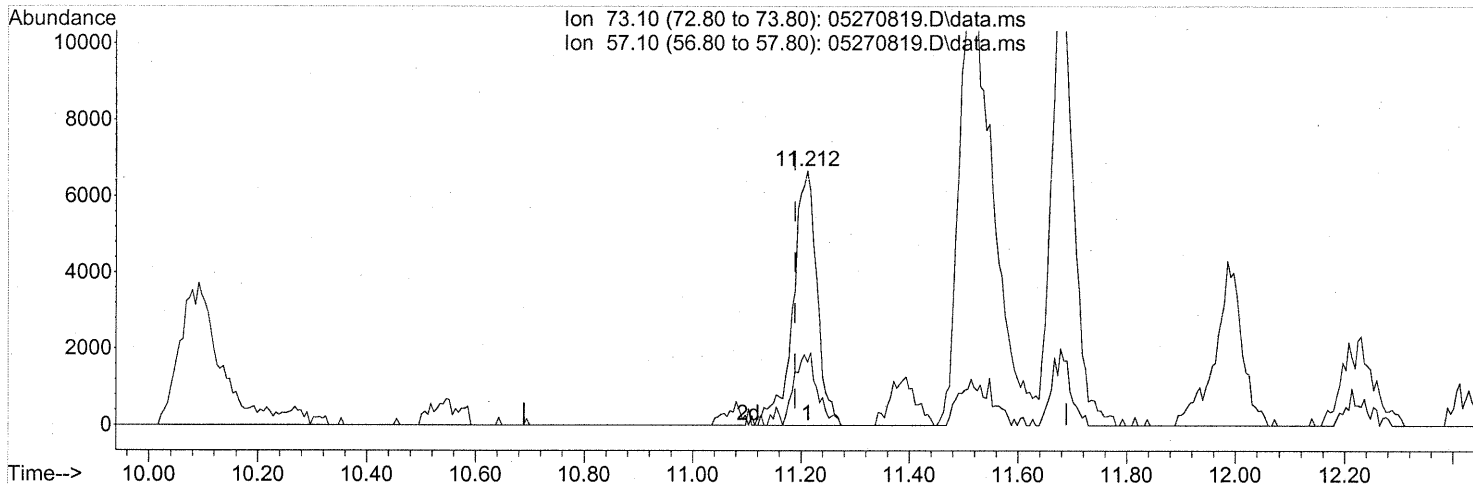
response 91547

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.212min (+0.023) 0.21ng

response 20488

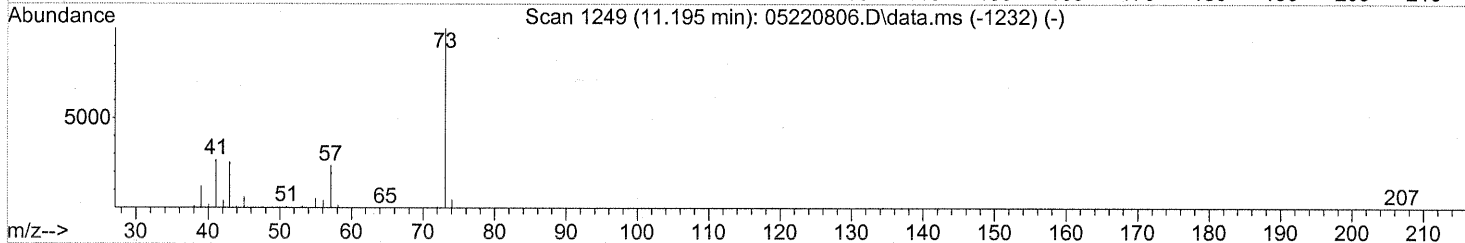
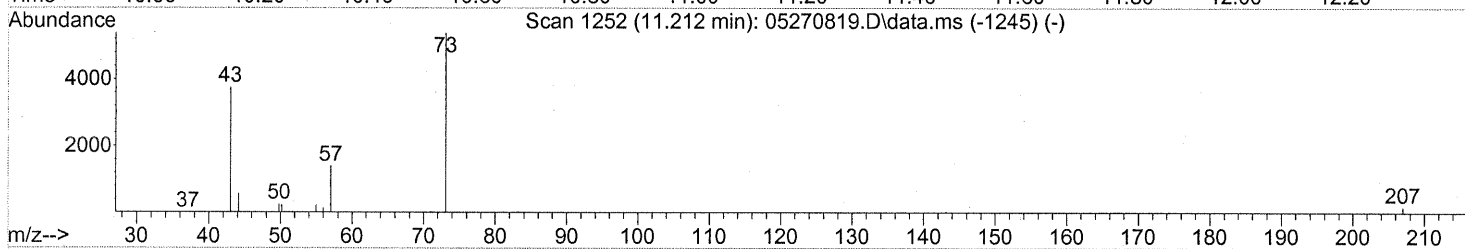
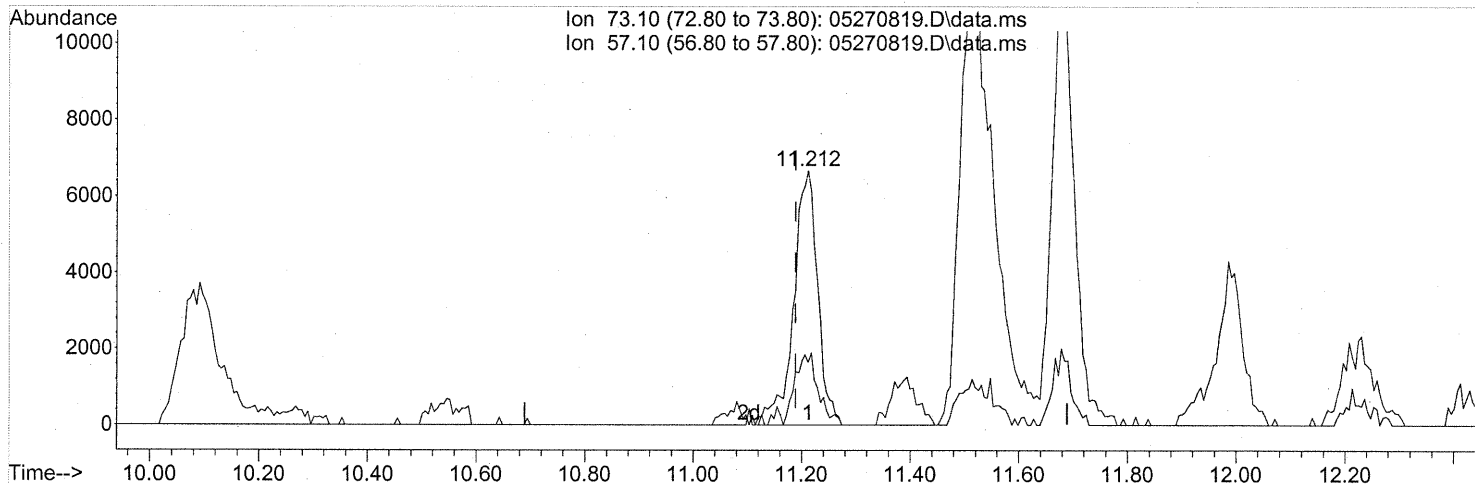
before substr.

Ion	Exp%	Act%
73.10	100	100
57.10	31.40	27.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.212min (+0.023) 0.21ng

response 20488

Ion	Exp%	Act%
73.10	100	100
57.10	31.40	27.06
0.00	0.00	0.00
0.00	0.00	0.00

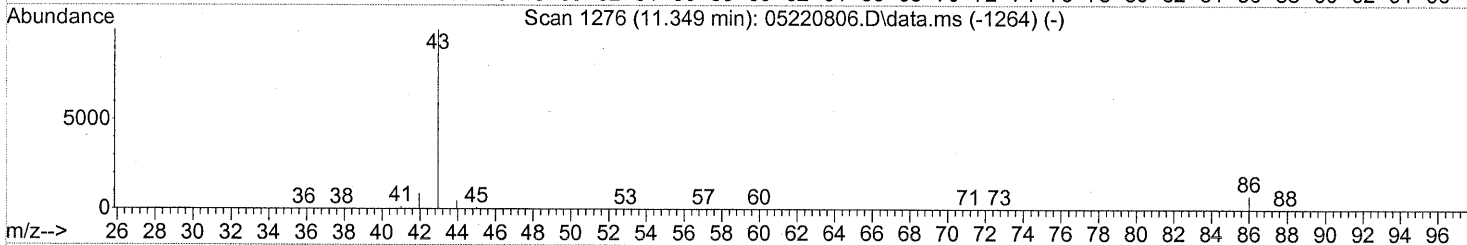
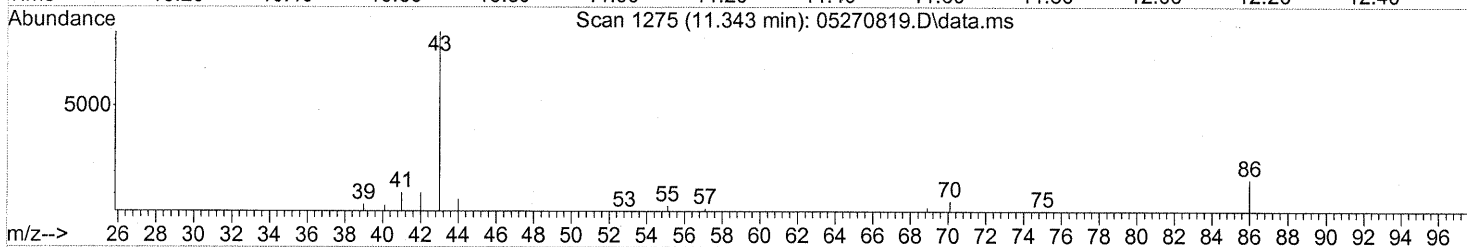
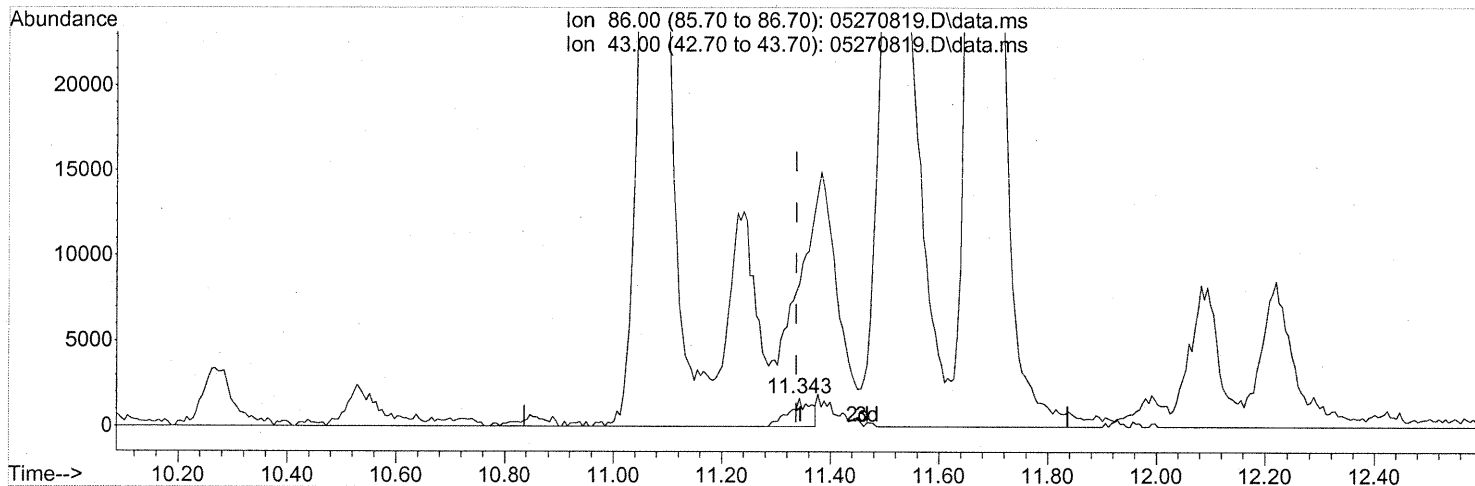
after substr.

WA 5/31/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(26) Vinyl Acetate (T)

11.343min (+0.006) 0.82ng

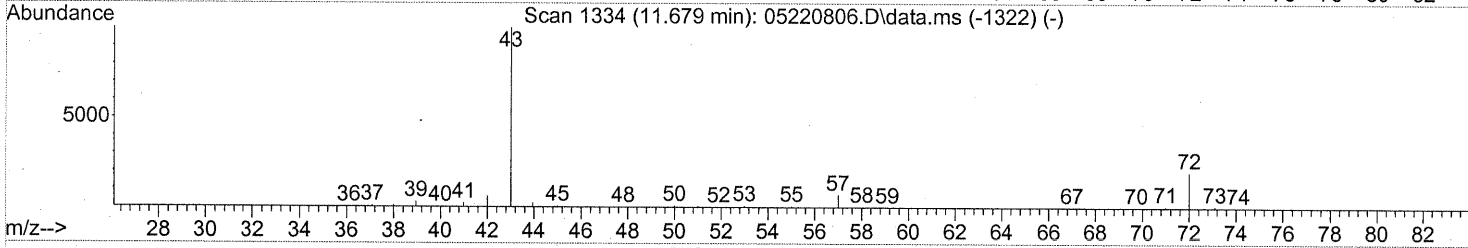
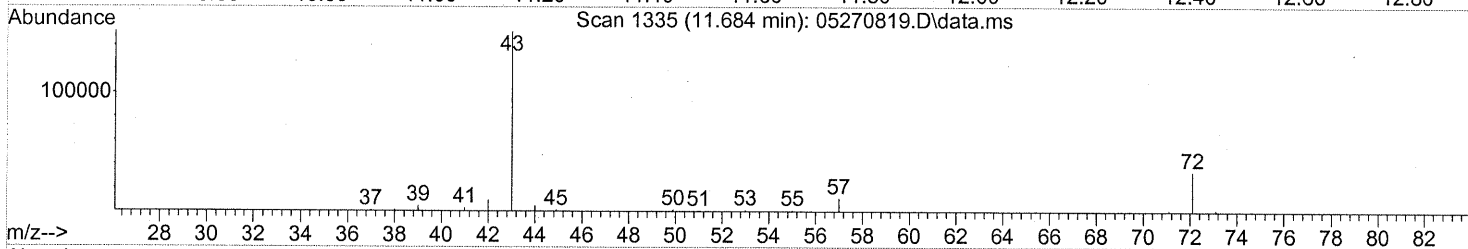
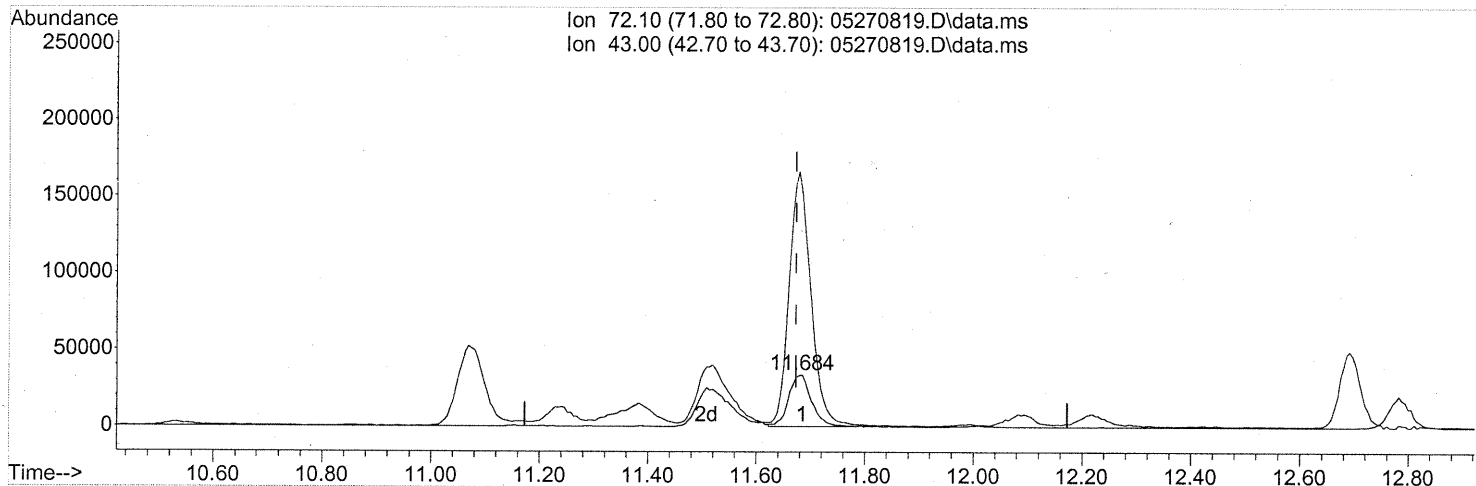
response 4496

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



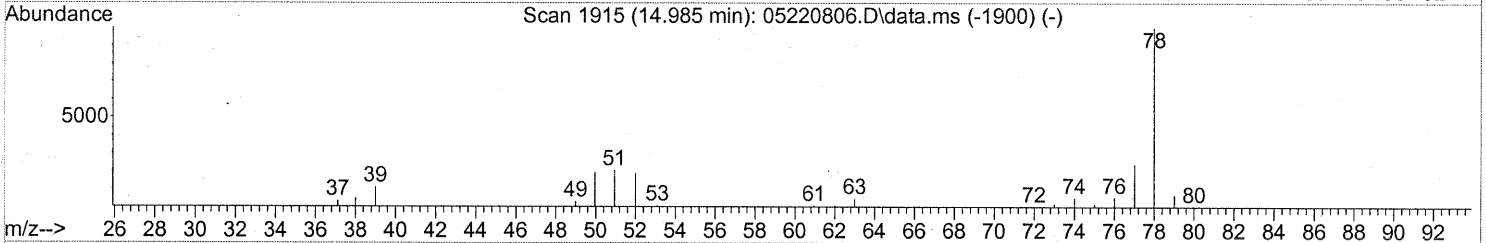
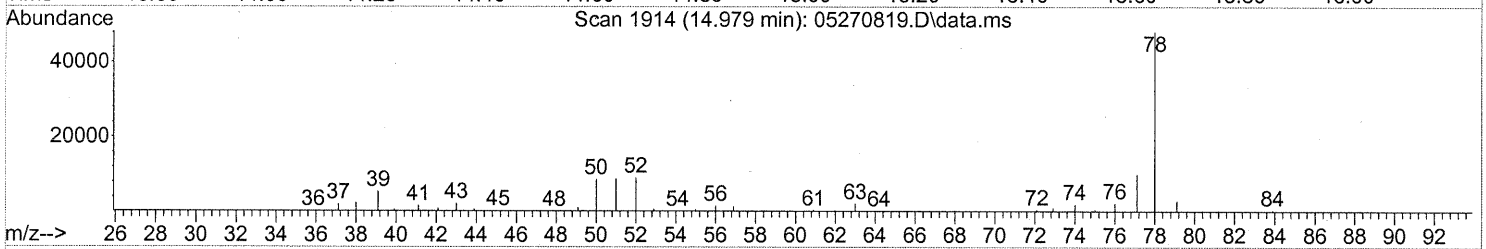
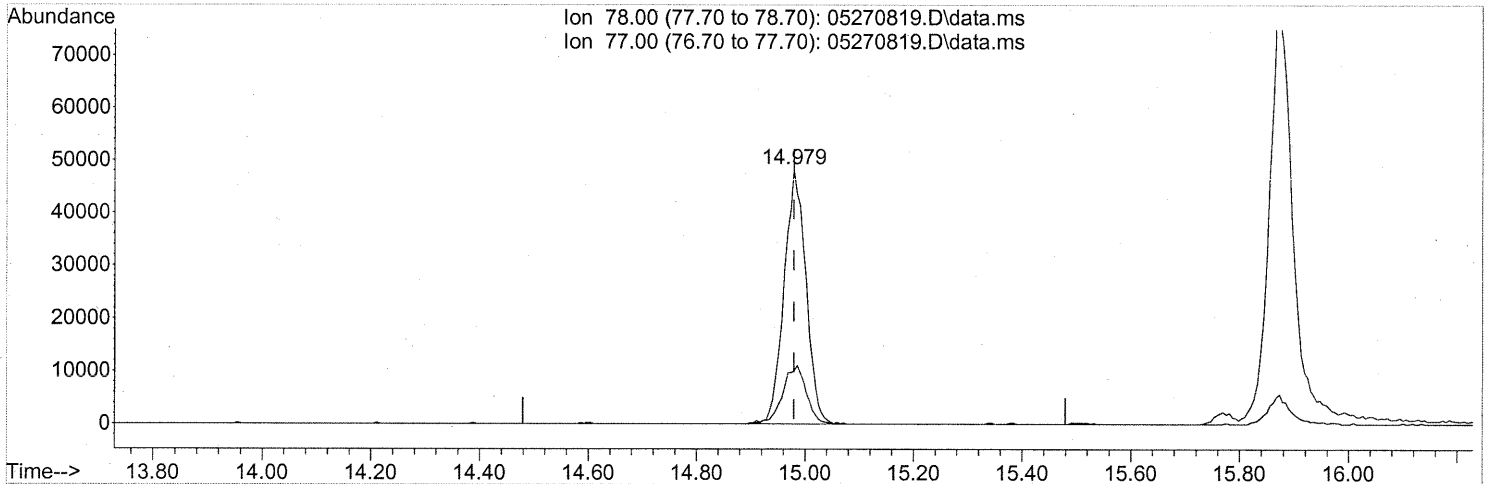
(27) 2-Butanone (T)
 11.684min (+0.011) 4.54ng
 response 97731

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	473.12#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(41) Benzene (T)

14.979min (-0.000) 1.09ng

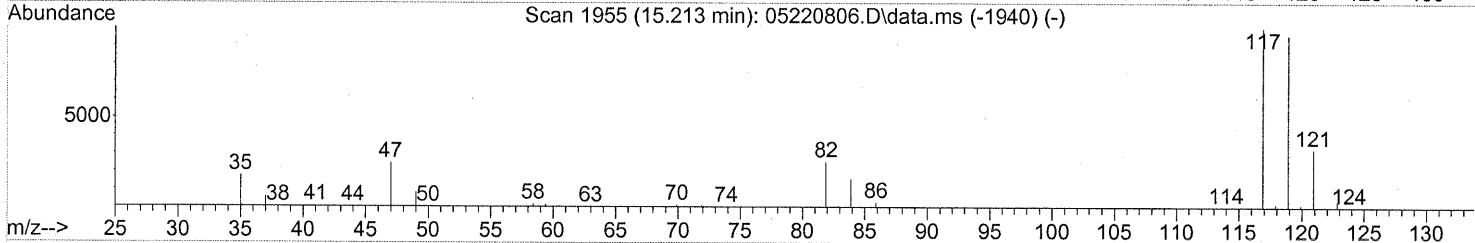
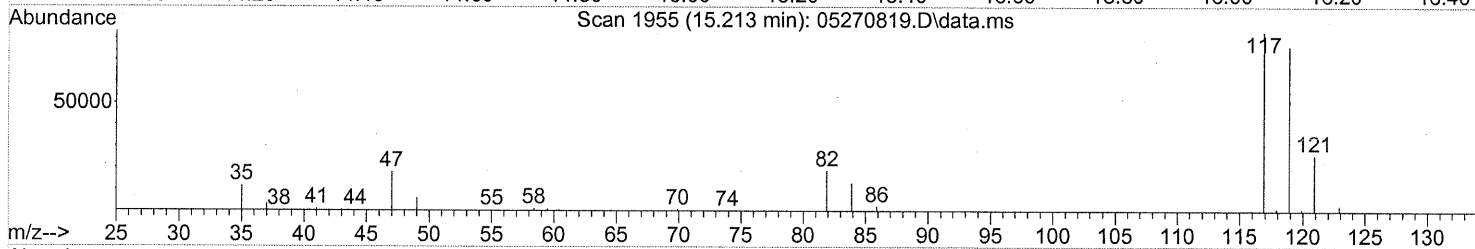
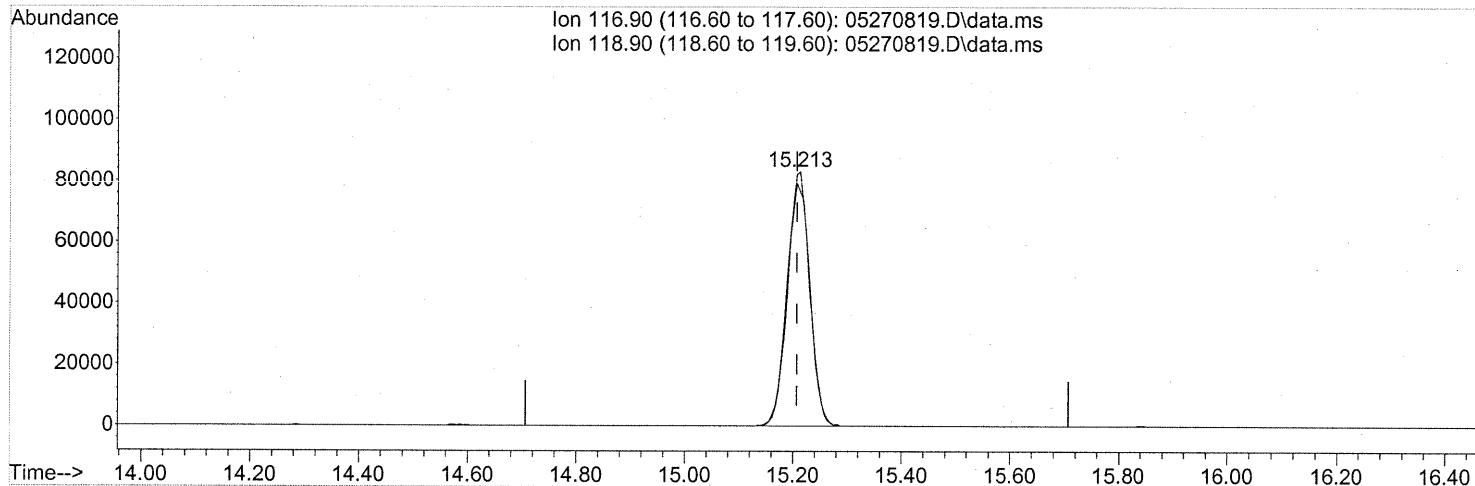
response 134094

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 5.07ng

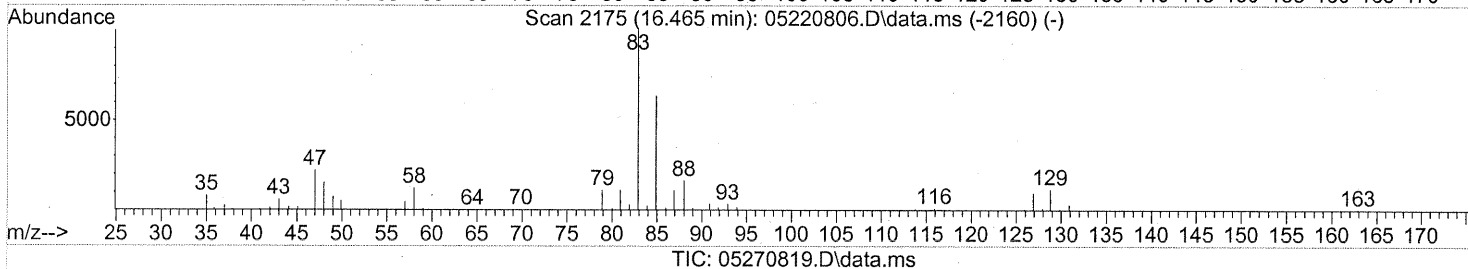
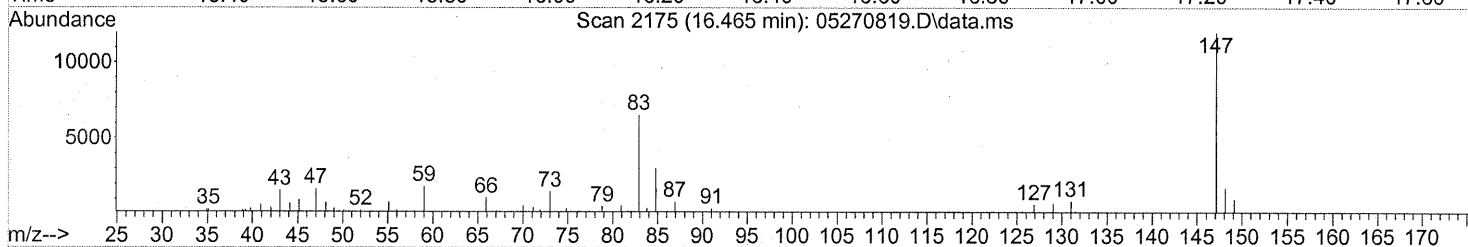
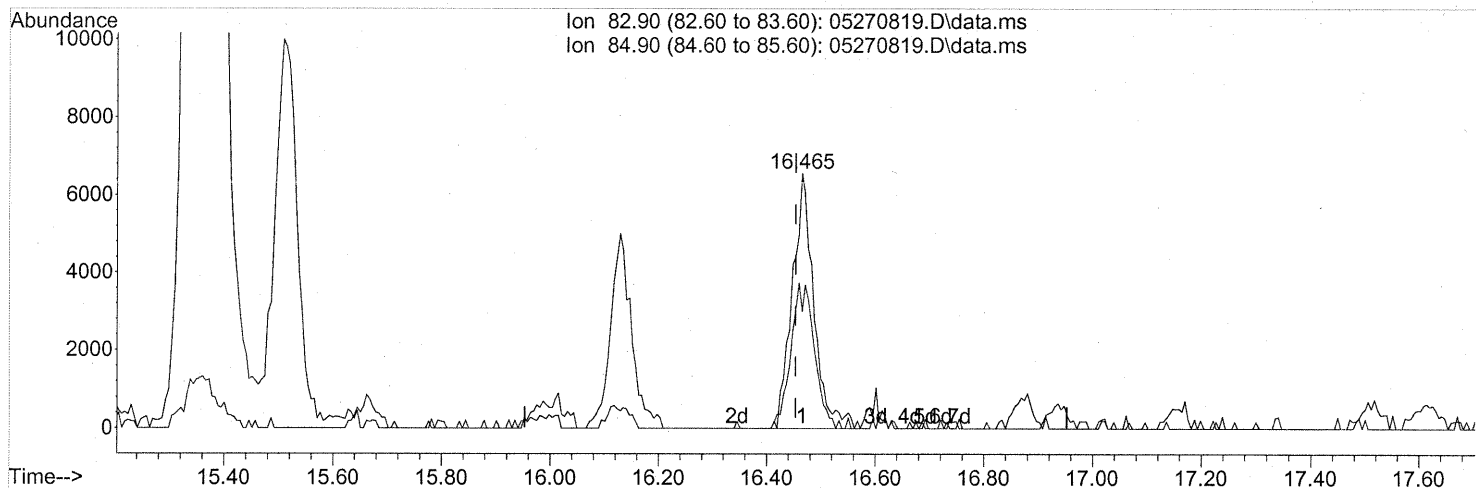
response 239227

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 11:38:28 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.44ng

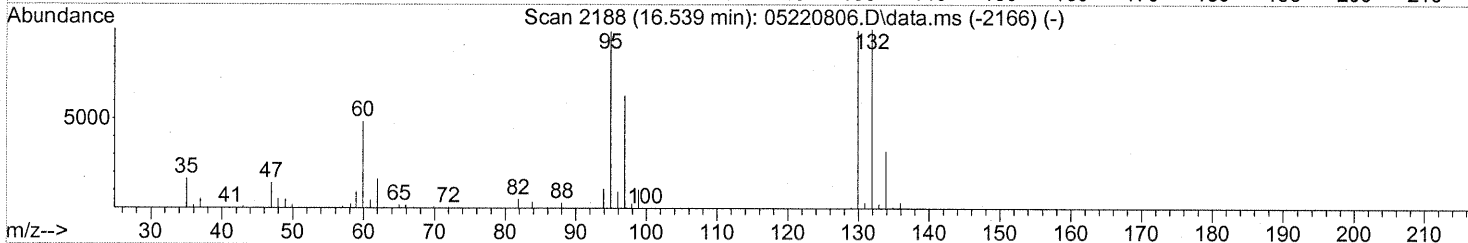
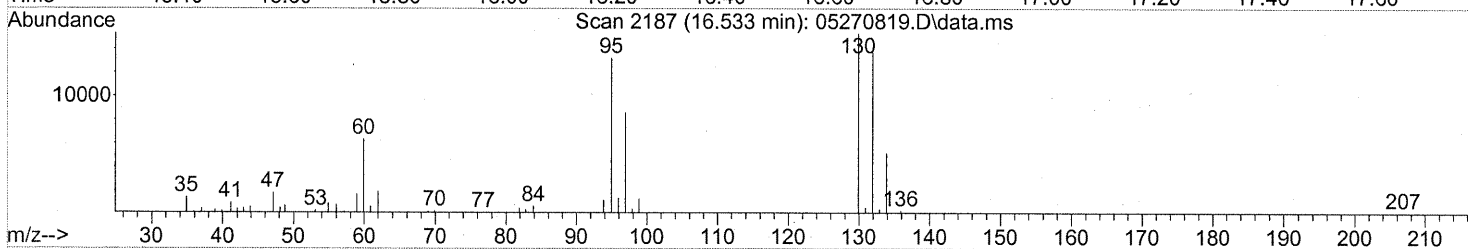
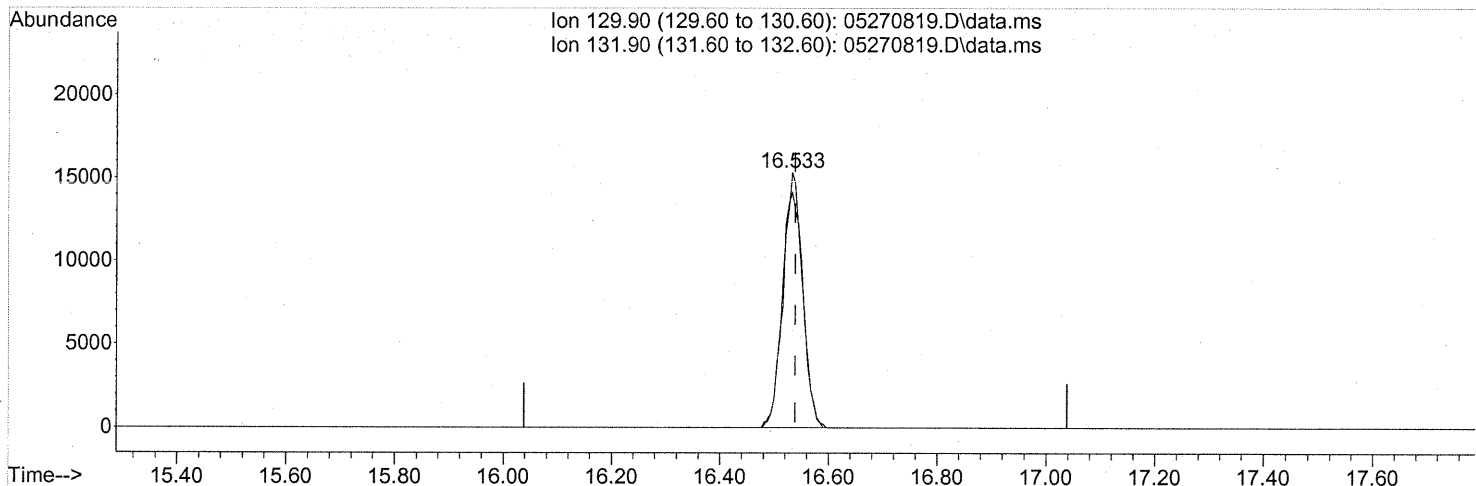
response 18073

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	61.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 1.02ng

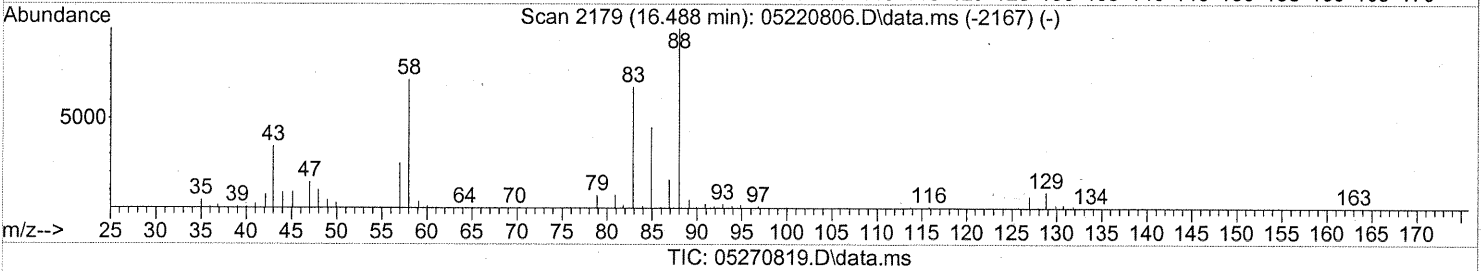
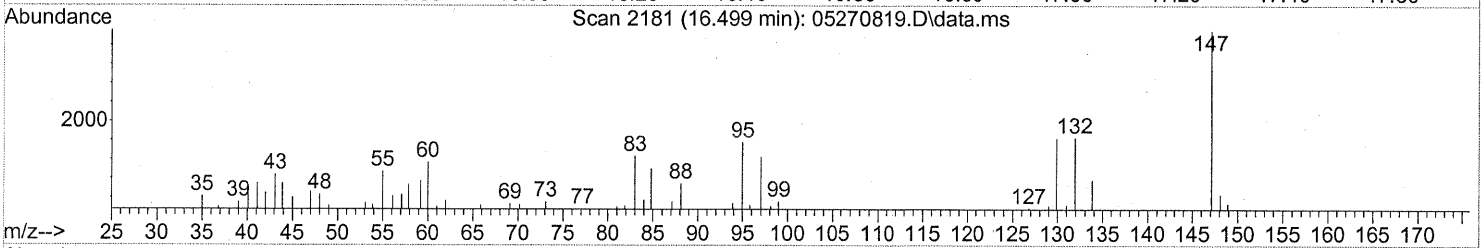
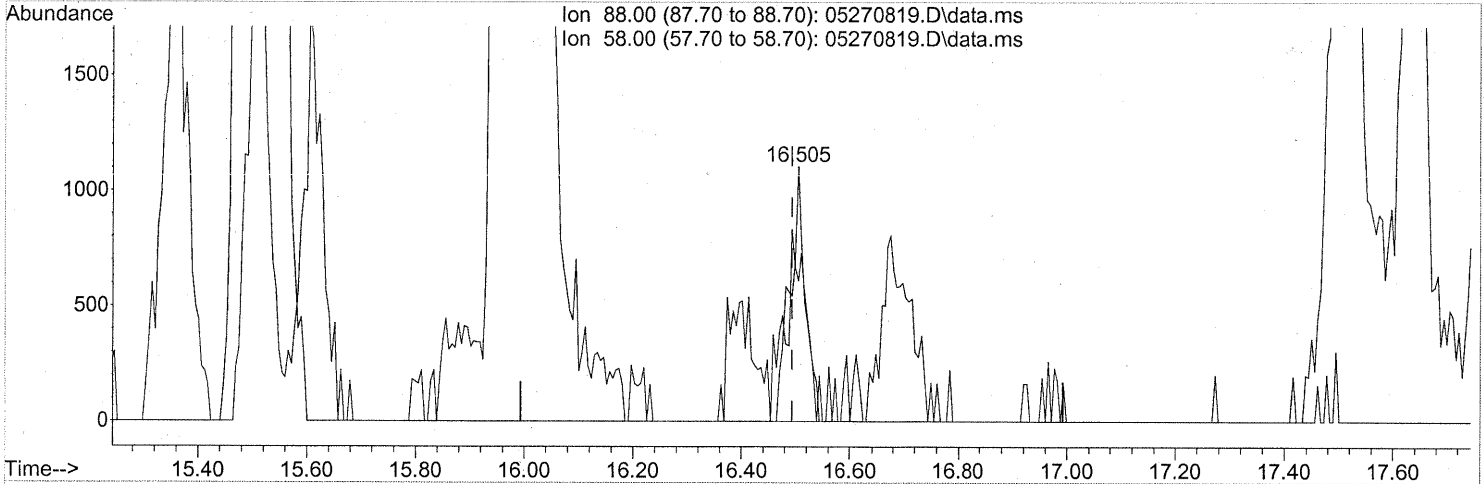
response 38196

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	98.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)
 16.505min (+0.011) 0.10ng
 response 2205

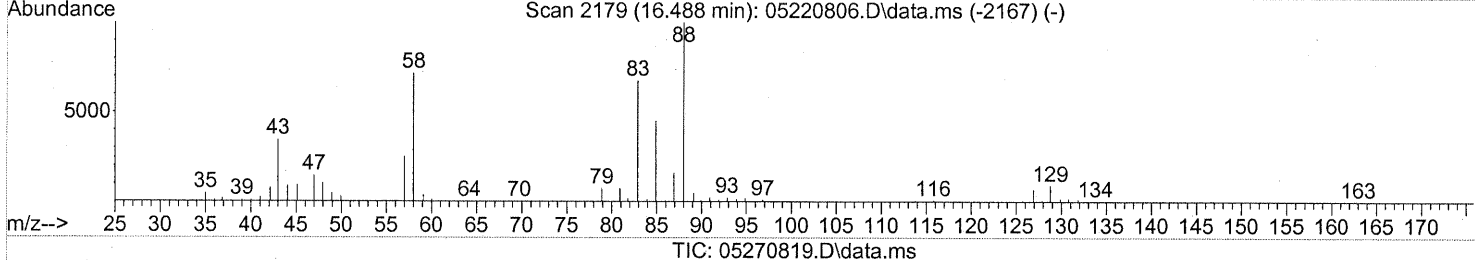
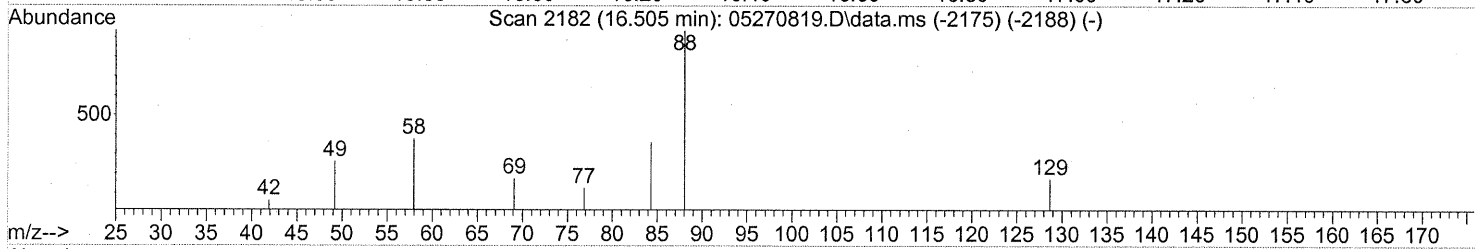
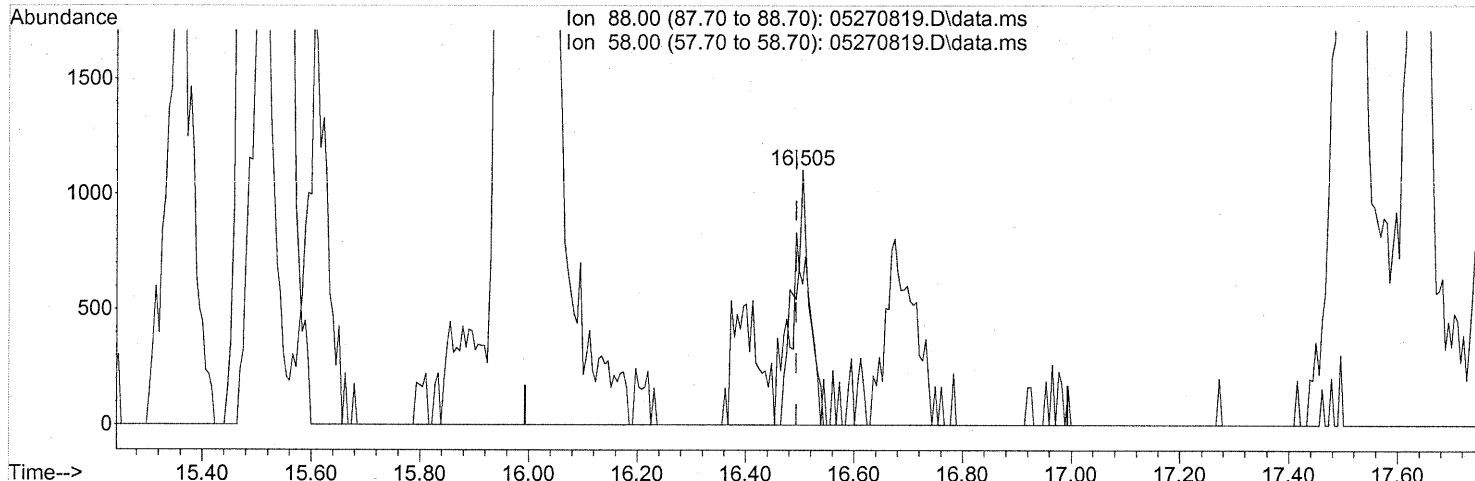
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	103.45
0.00	0.00	0.00
0.00	0.00	0.00

before substr

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)

16.505min (+0.011) 0.10ng

response 2205

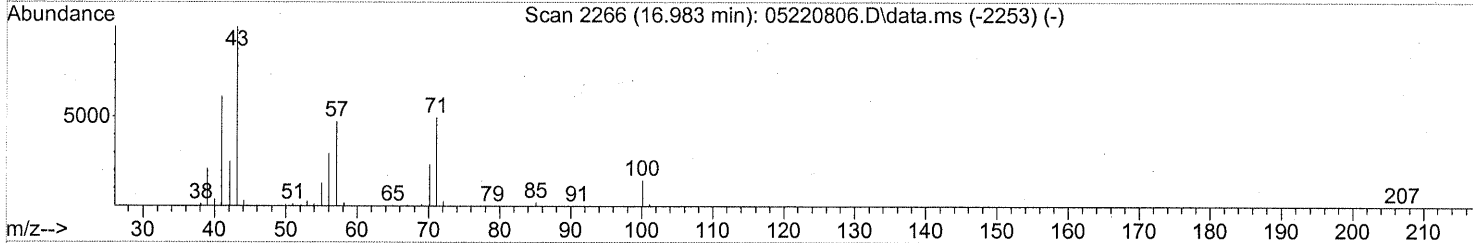
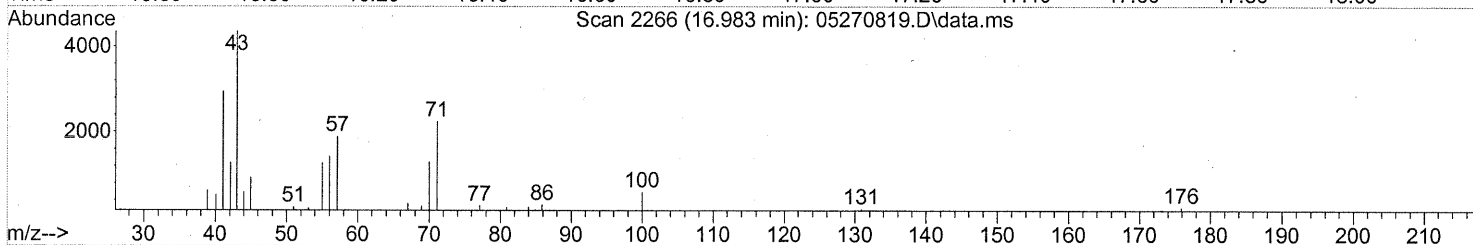
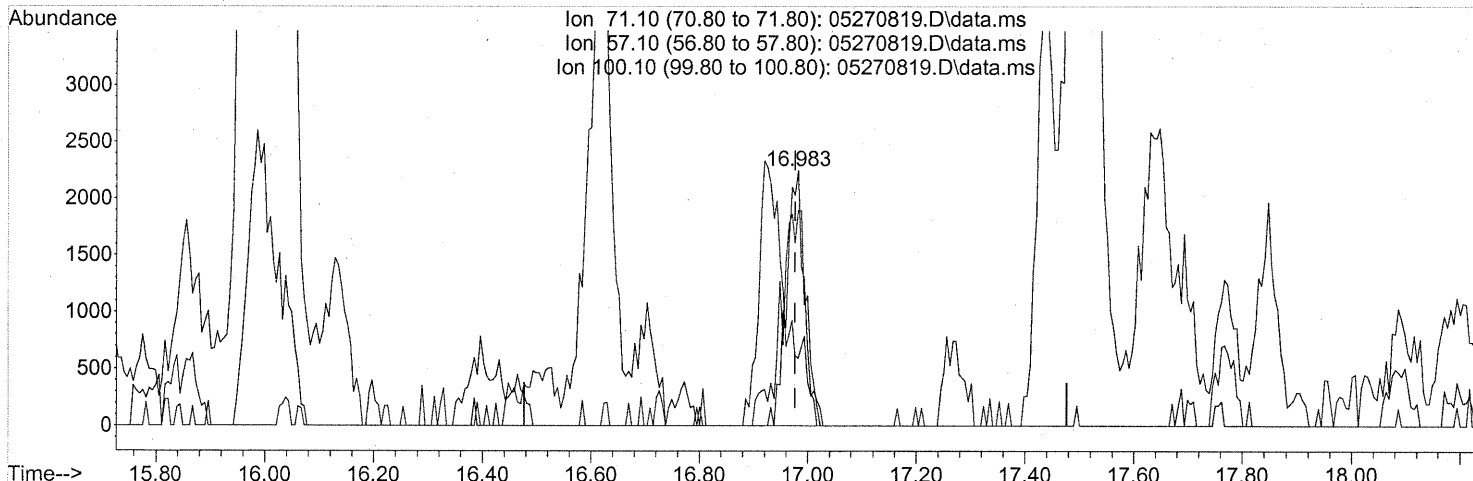
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	103.45
0.00	0.00	0.00
0.00	0.00	0.00

after subst
DA 5/31/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



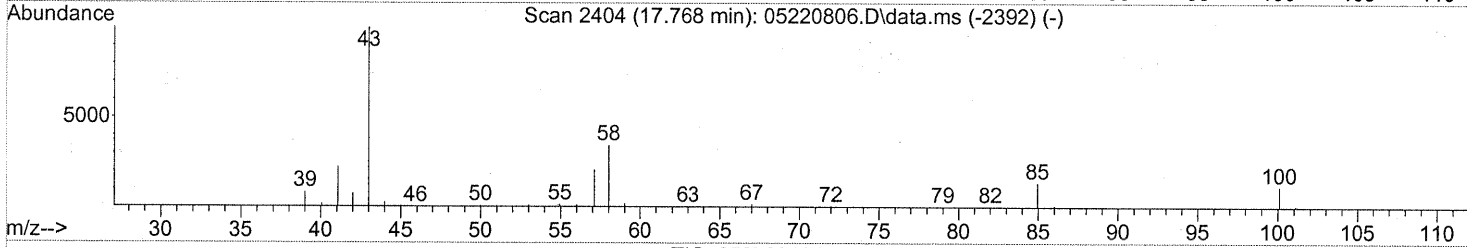
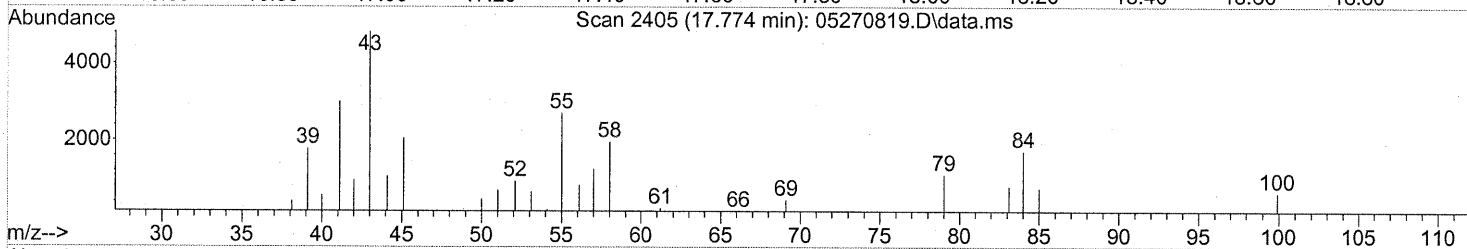
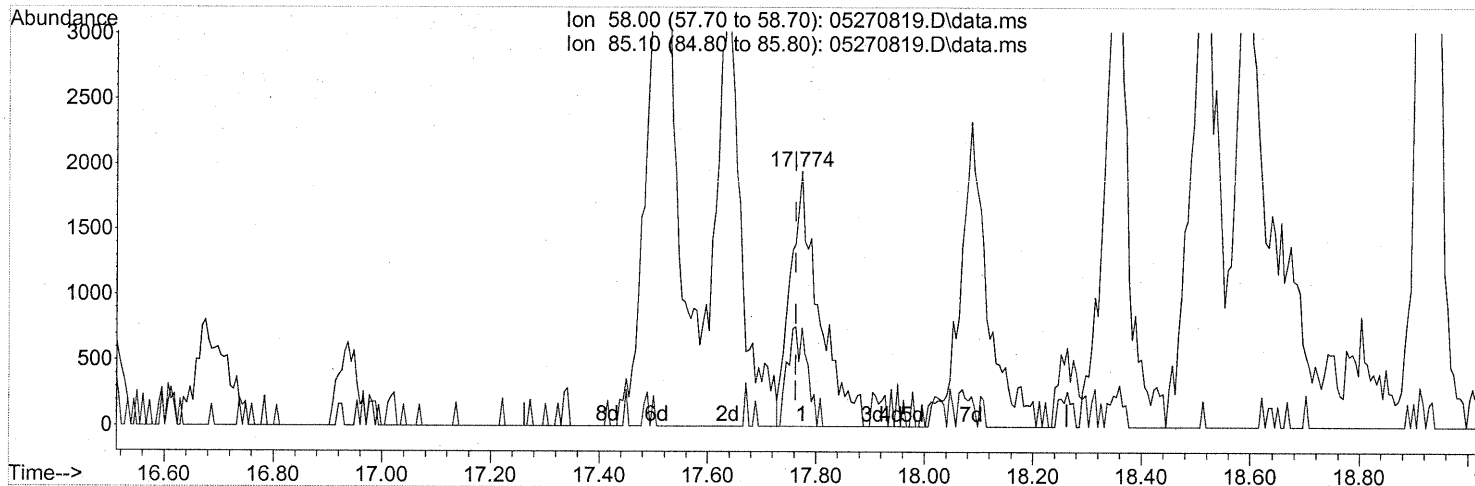
(51) n-Heptane (T)
 16.983min (+0.006) 0.15ng
 response 4994

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	115.80
100.10	30.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.774min (+0.011) 0.22ng

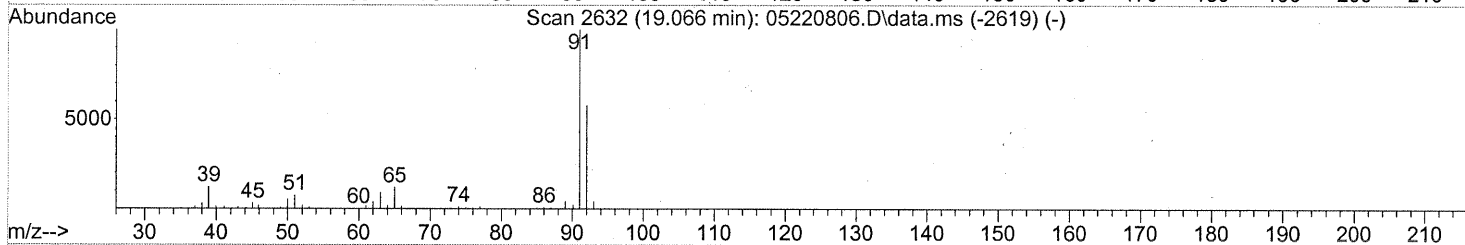
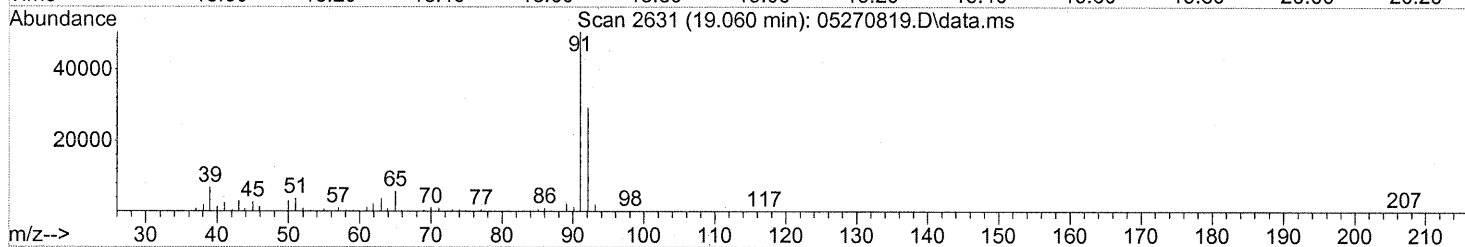
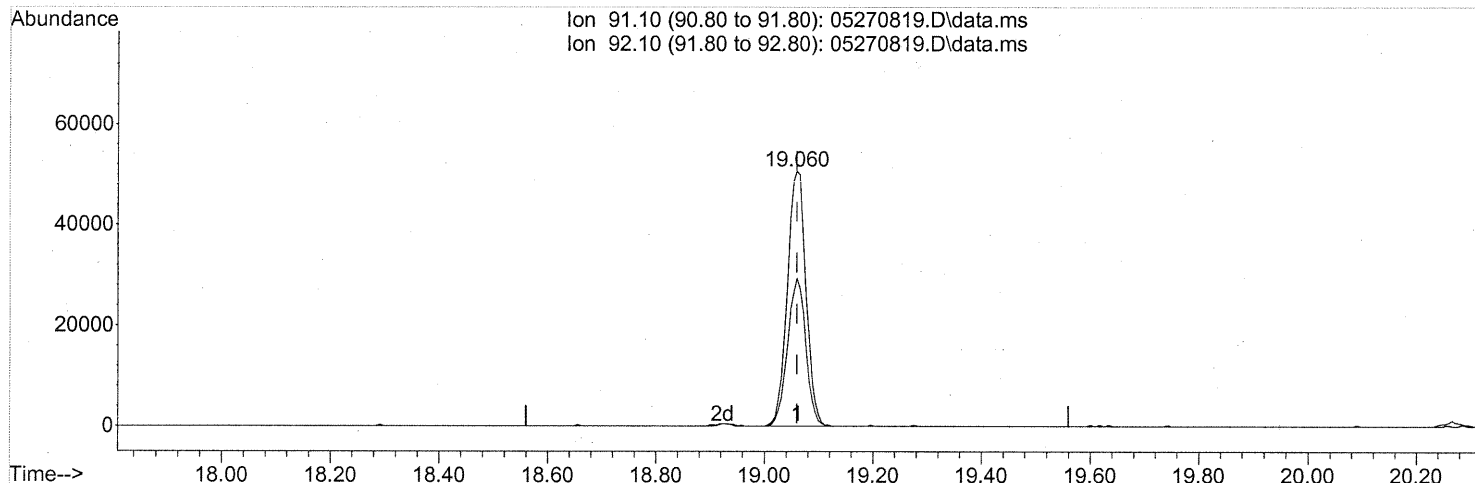
response 7173

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	26.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.85ng

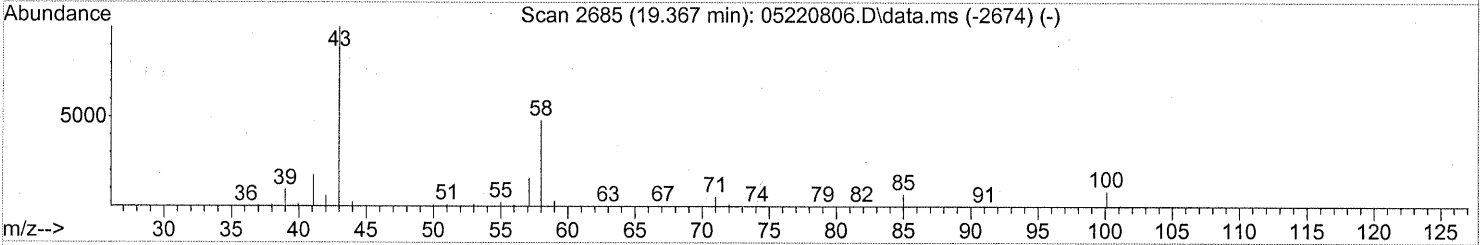
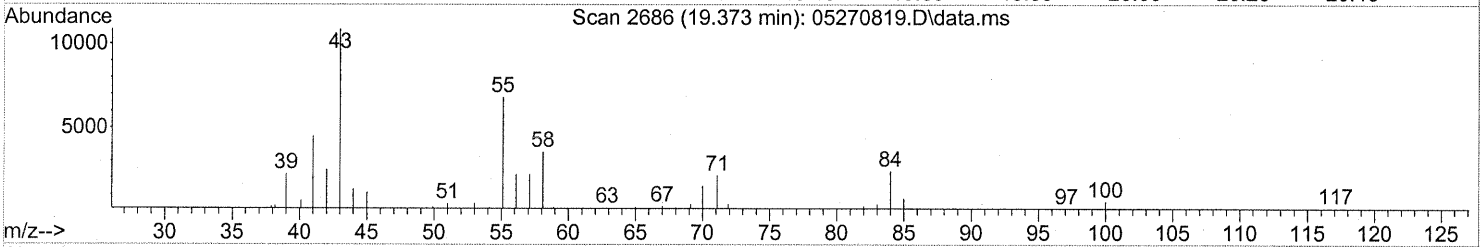
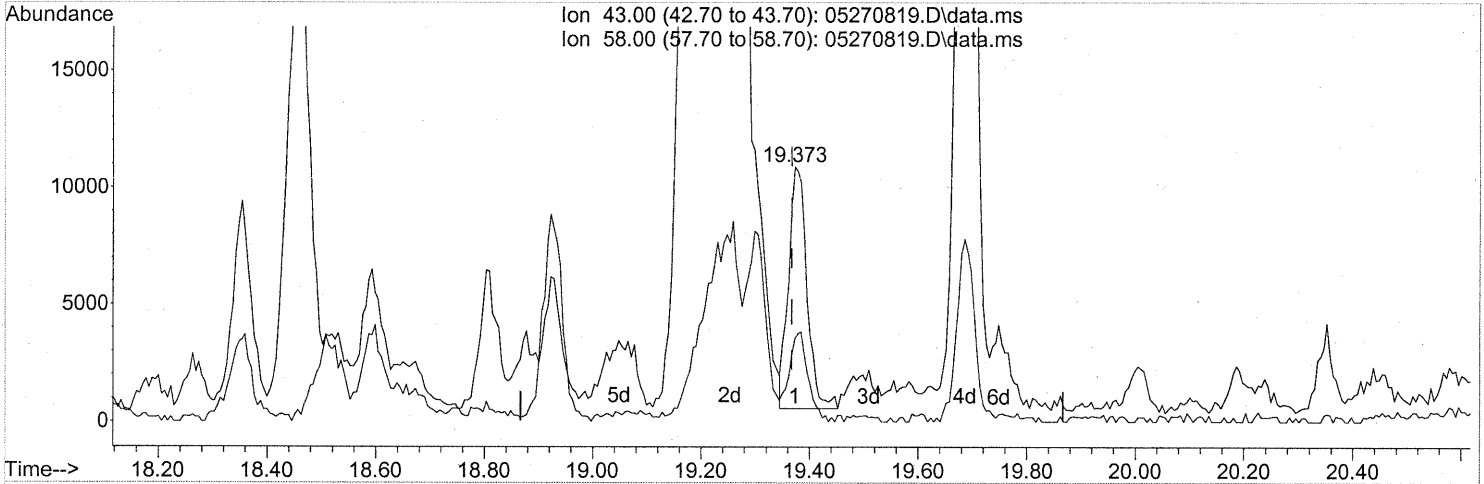
response 120614

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	56.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

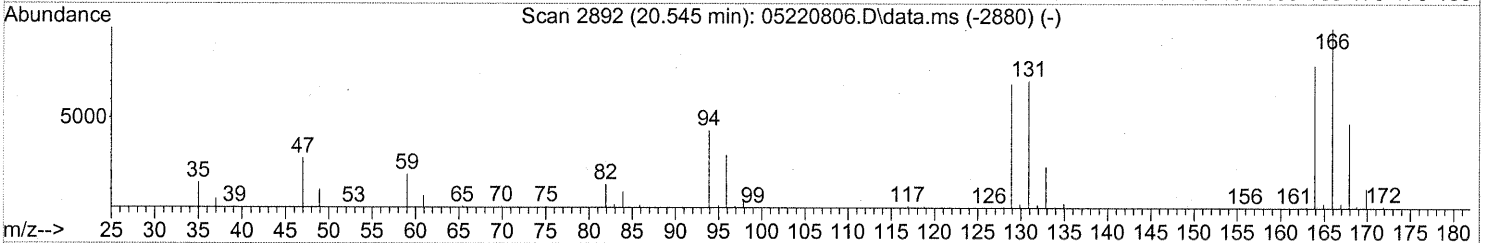
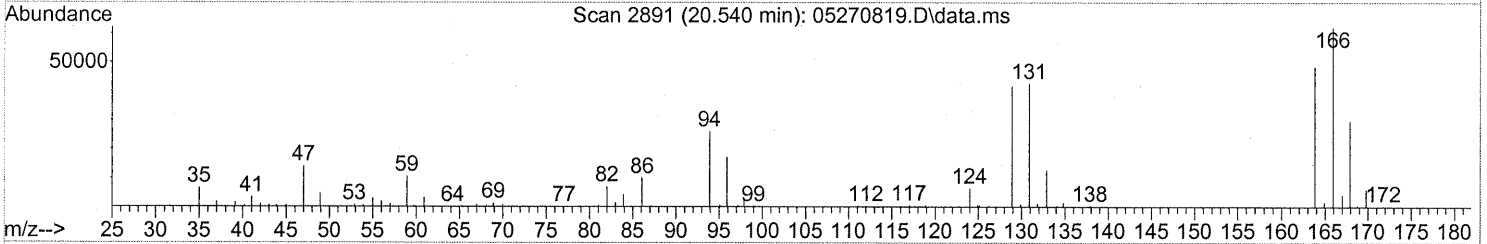
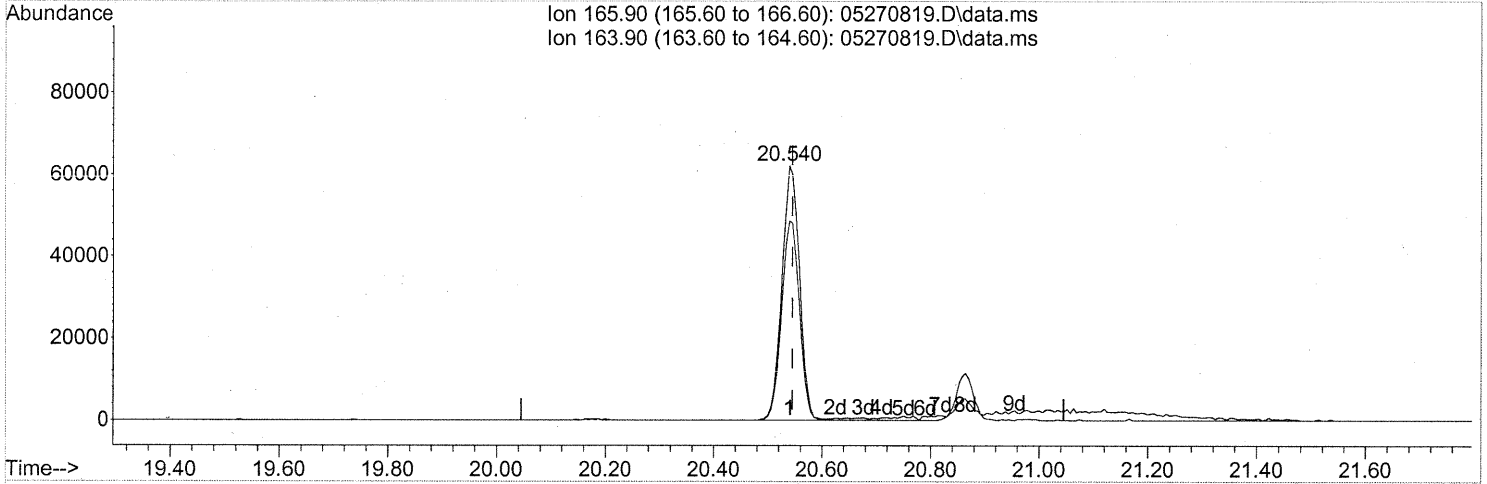
(59) 2-Hexanone (T)
 19.373min (+0.006) 0.25ng
 response 24341

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	38.52#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 3.31ng

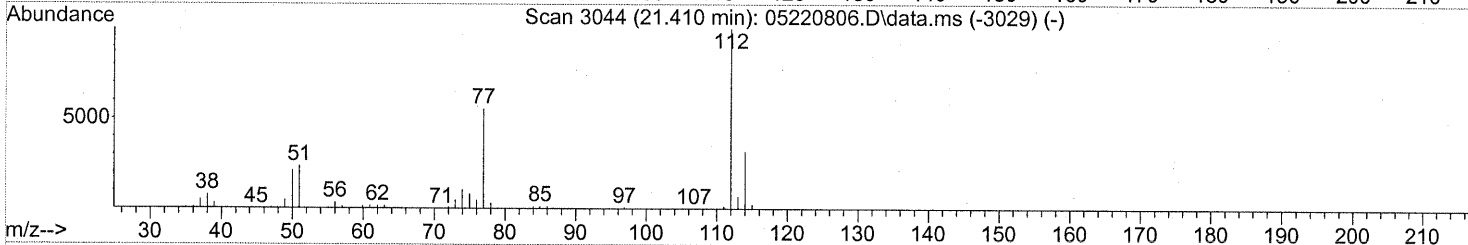
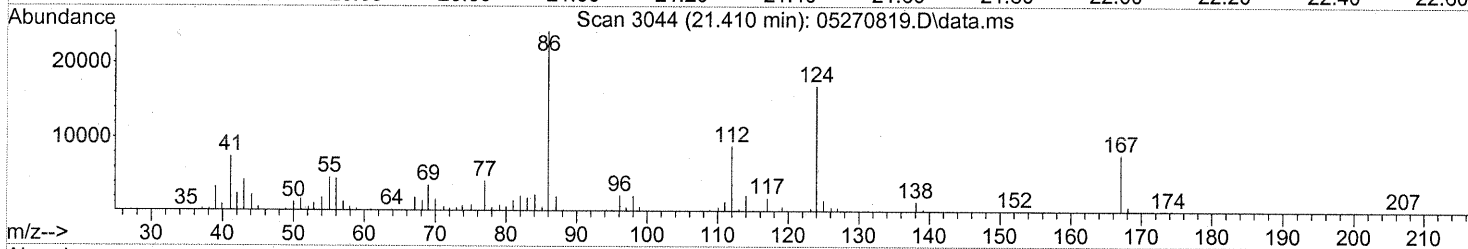
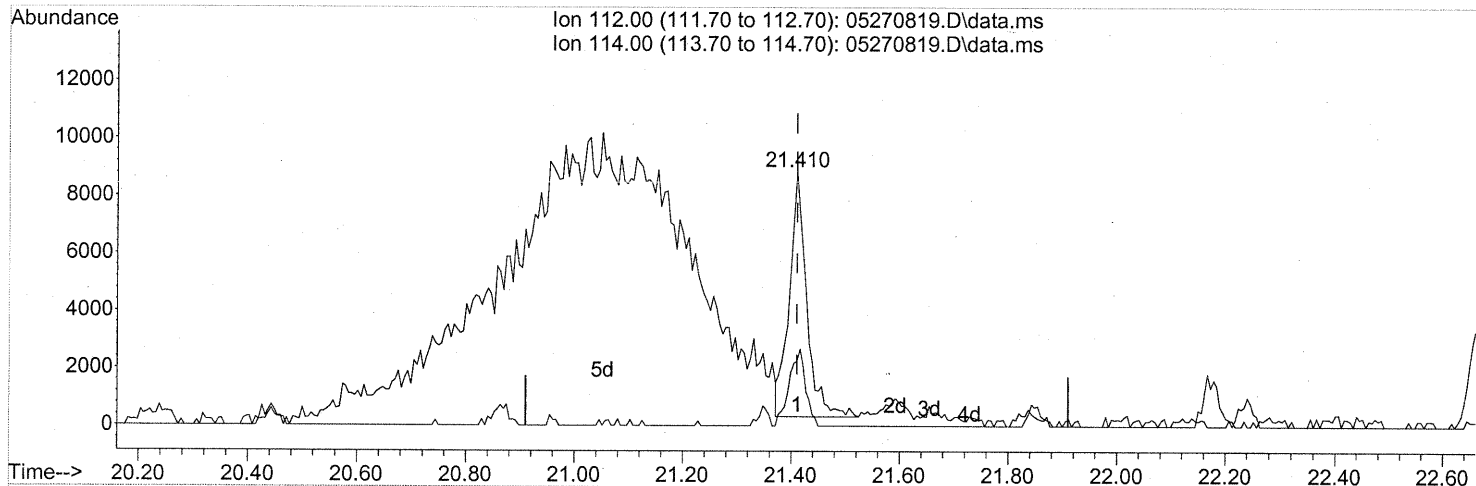
response 138517

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(65) Chlorobenzene (T)

21.410min (-0.000) 0.20ng

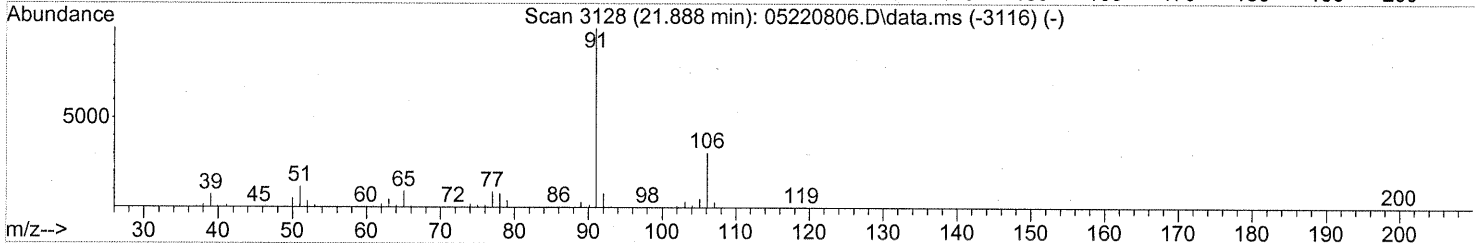
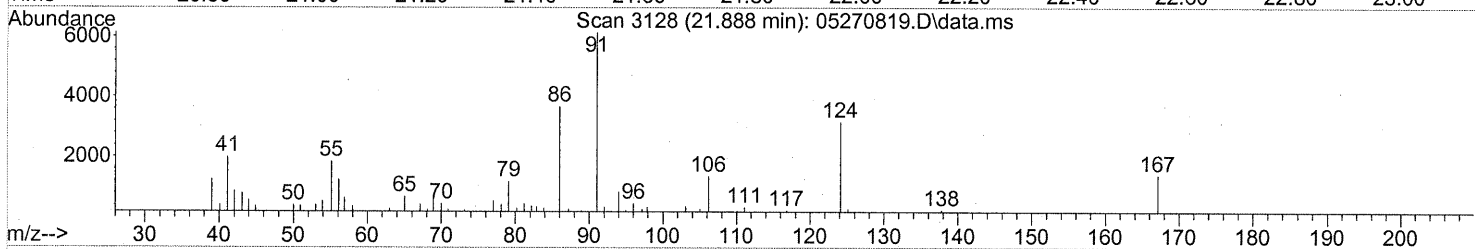
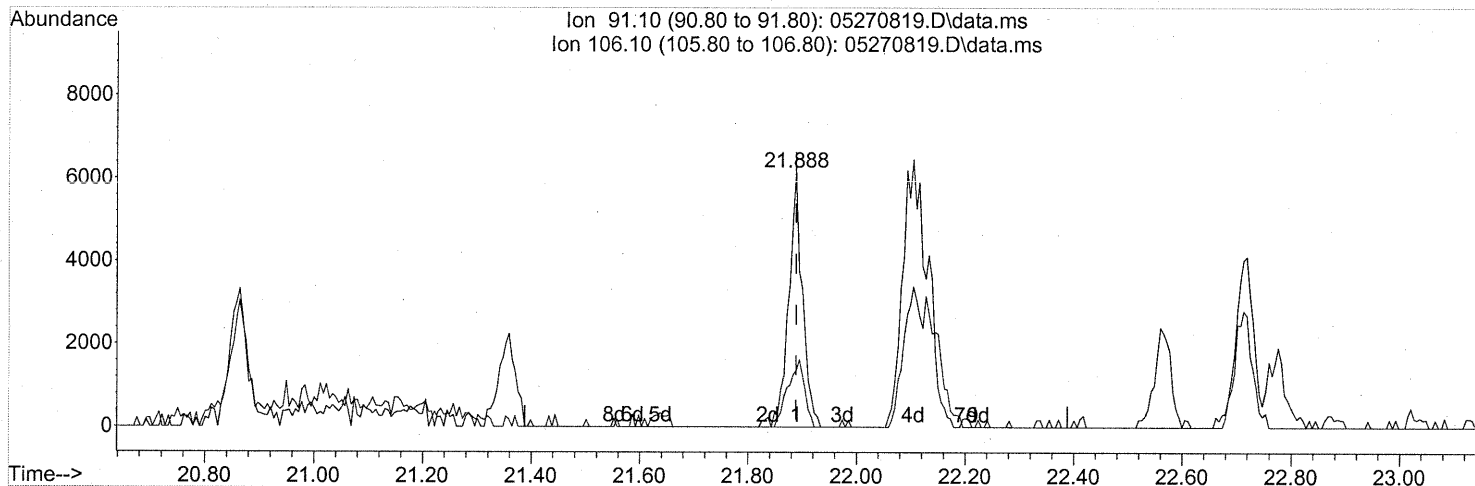
response 19263

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	29.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(66) Ethylbenzene (T)

21.888min (-0.000) 0.07ng

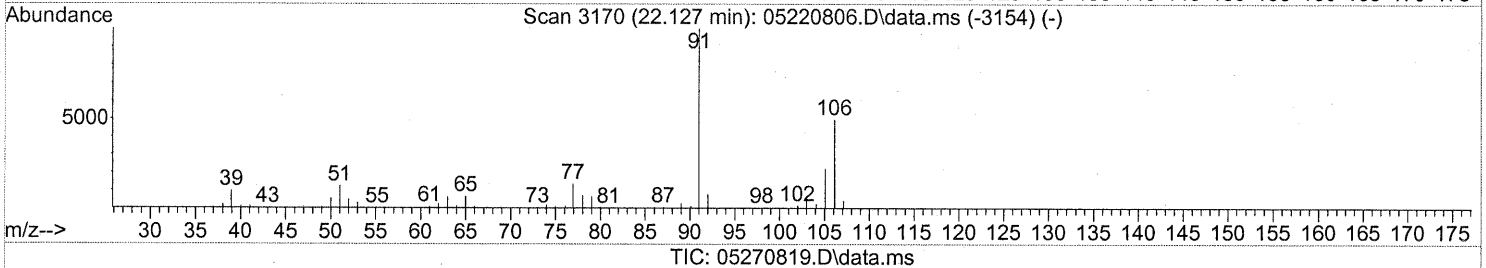
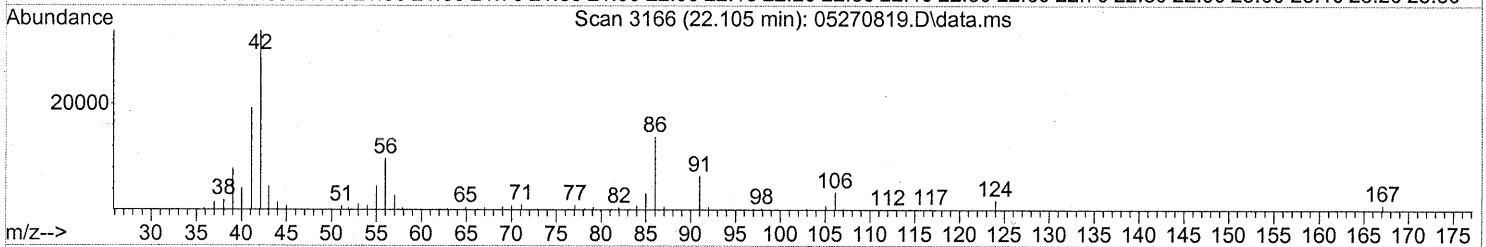
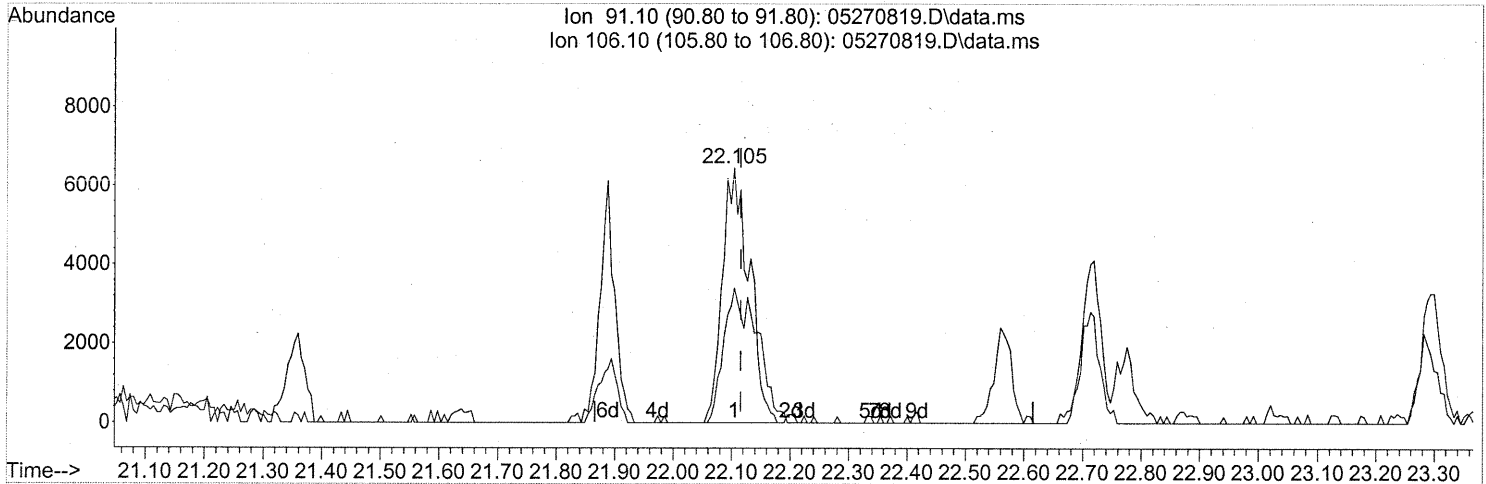
response 10805

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	32.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



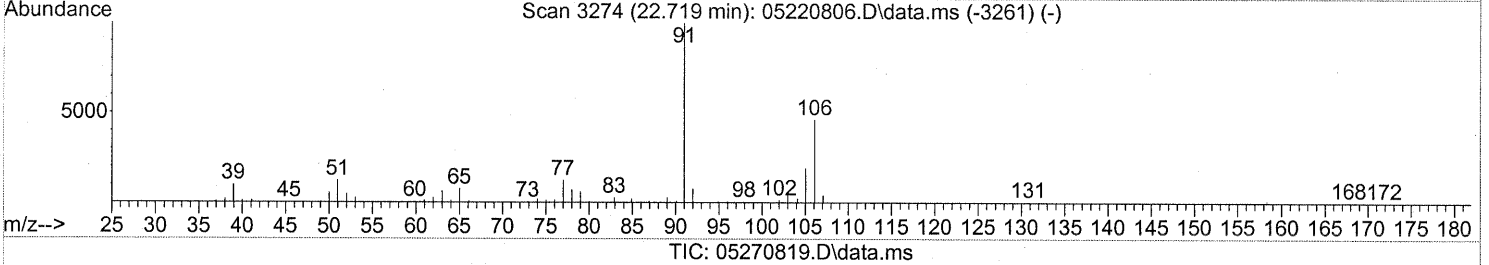
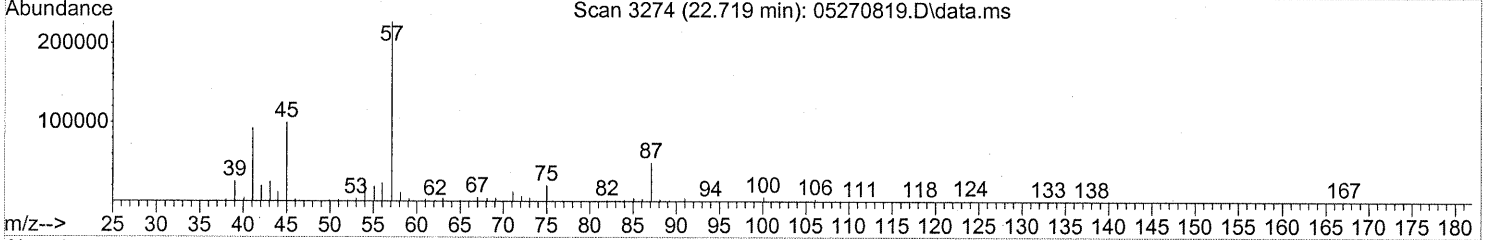
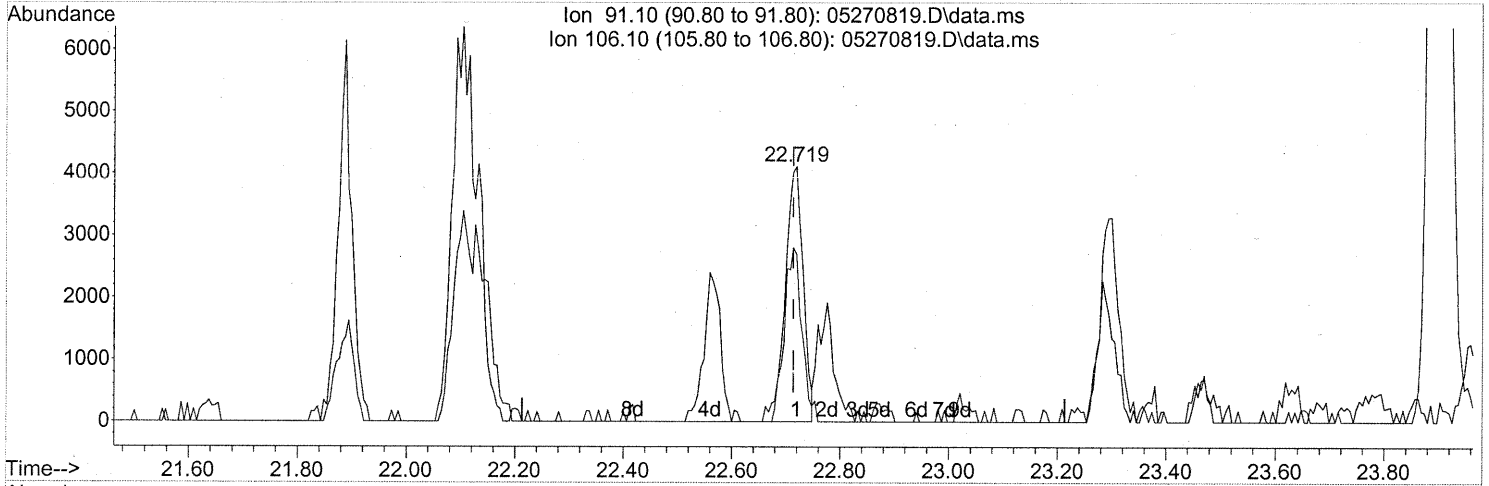
(67) m- & p-Xylene (T)
 22.105min (-0.012) 0.19ng
 response 20425

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	66.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

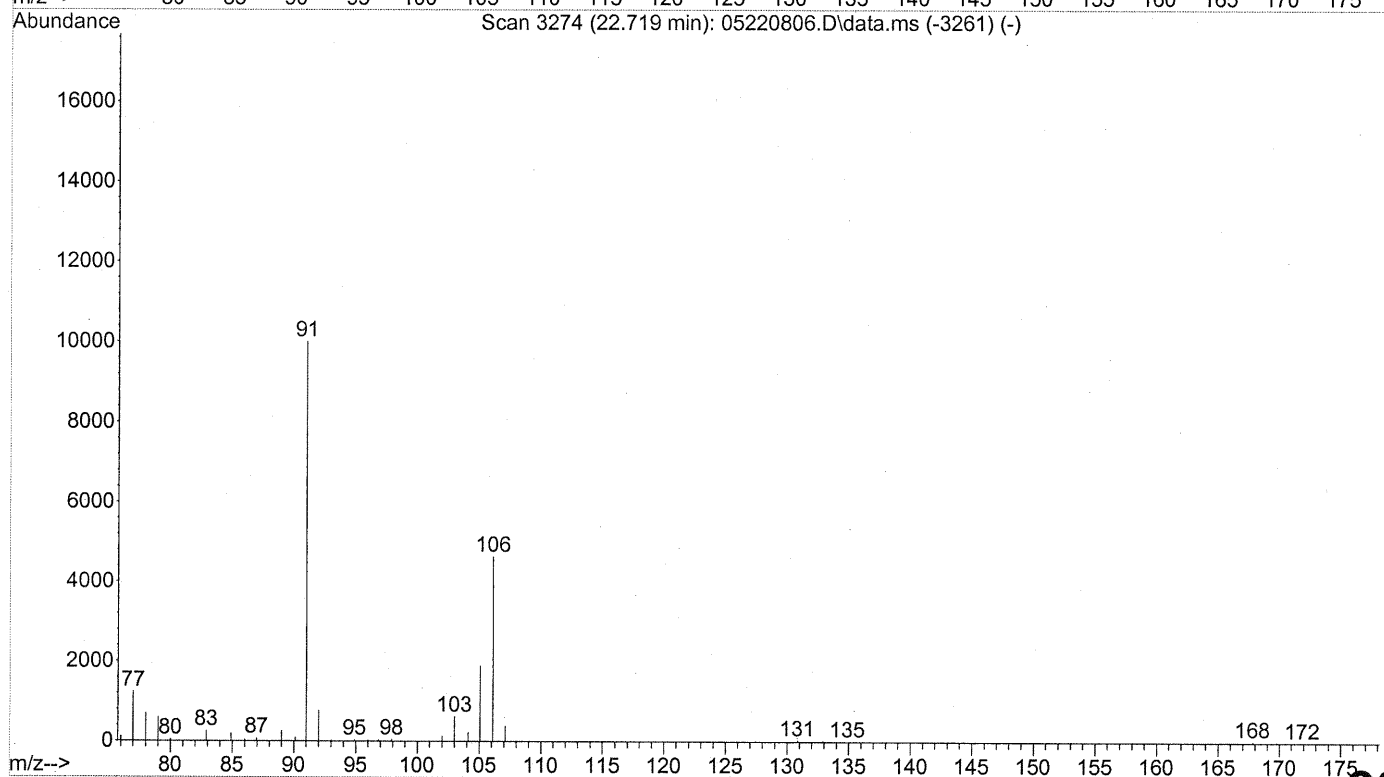
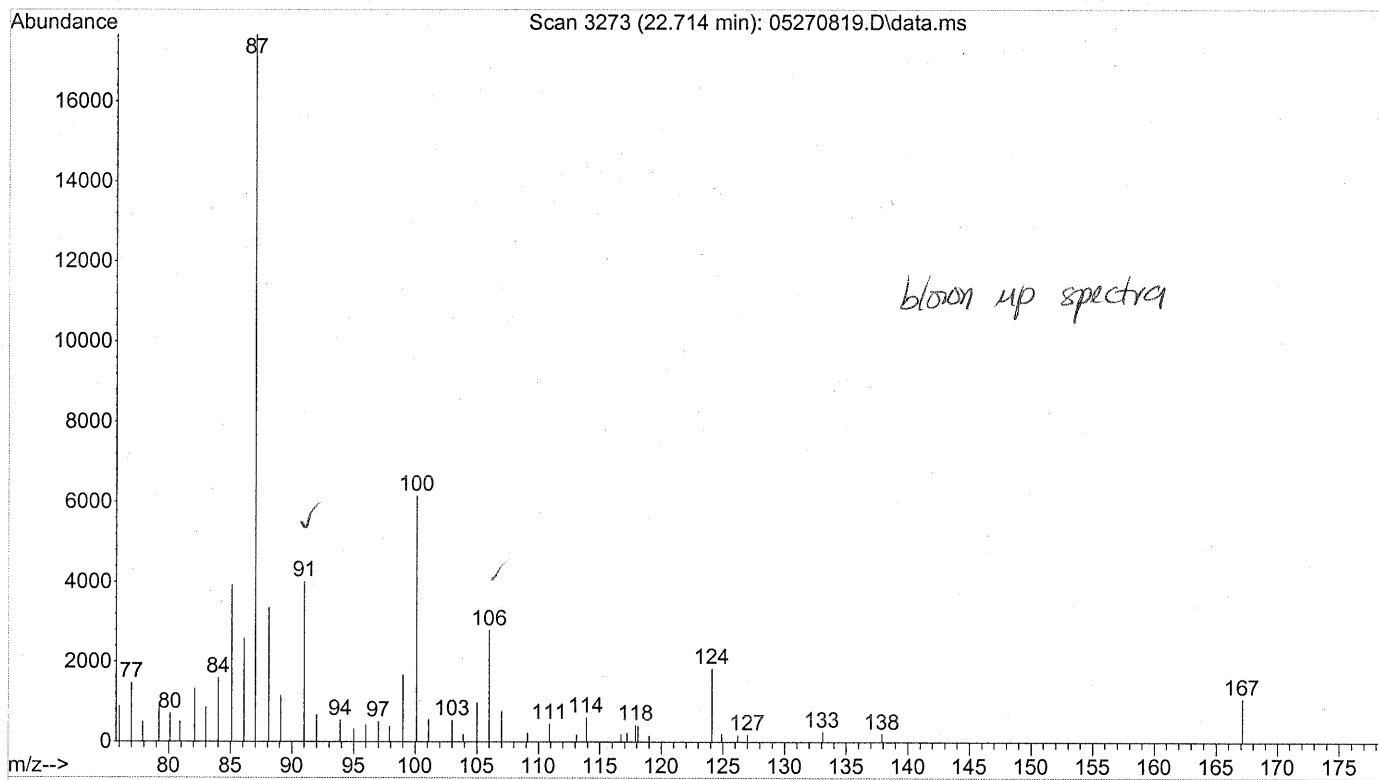


(70) o-Xylene (T)
 22.719min (+0.006) 0.08ng
 response 9453

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	66.52
0.00	0.00	0.00
0.00	0.00	0.00

see blown up spectra

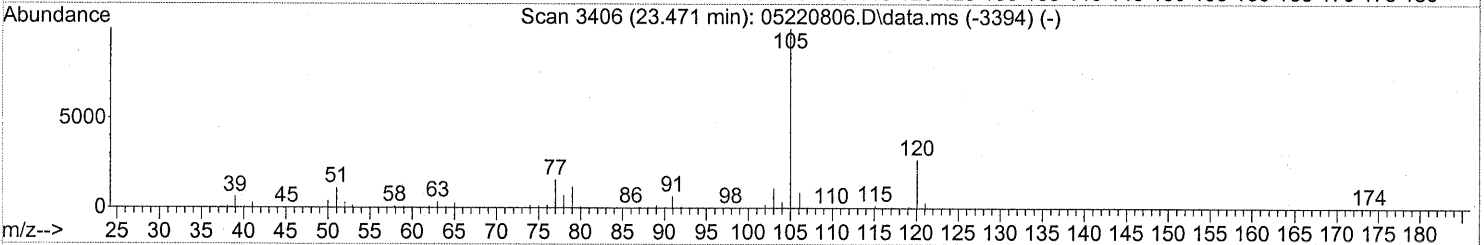
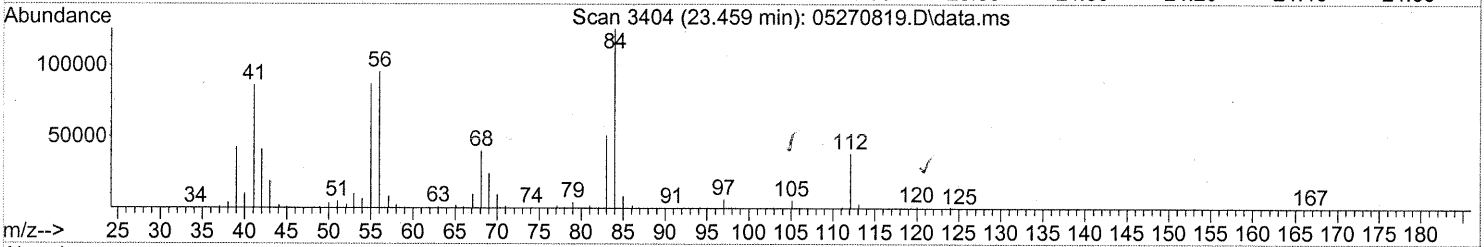
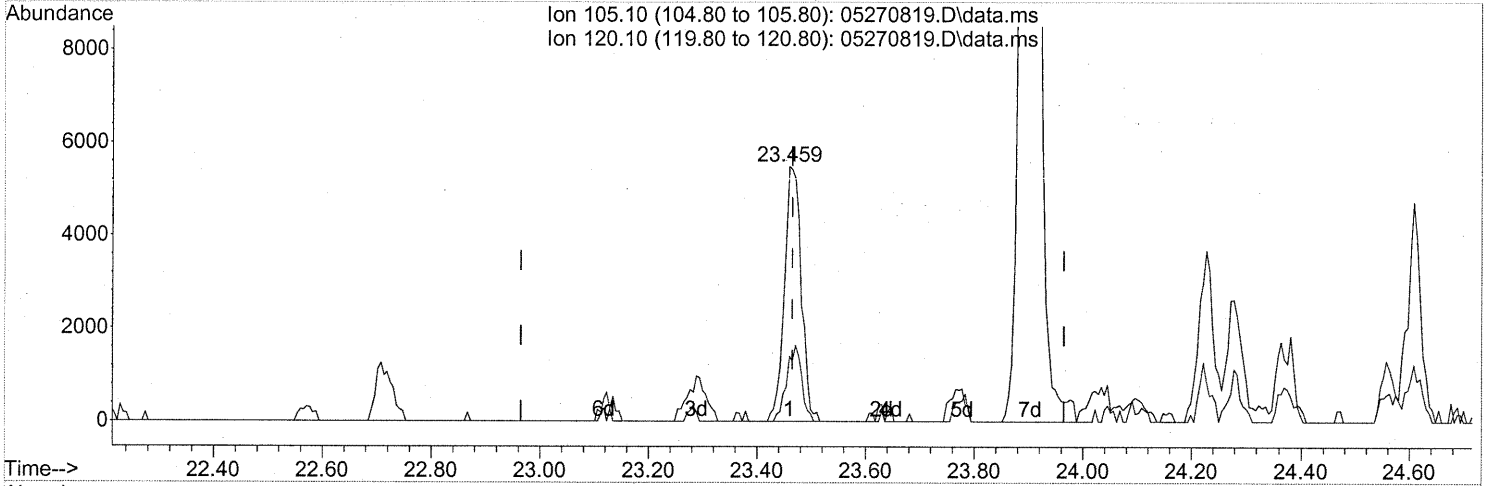
File : J:\MS13\DATA\2008_05\27\05270819.D
Operator : WA
Acquired : 27 May 2008 22:24 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-022 (1000ml)
Misc Info : ENSR SG12B-05 (-2.8, 3.6)
Vial Number: 3



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

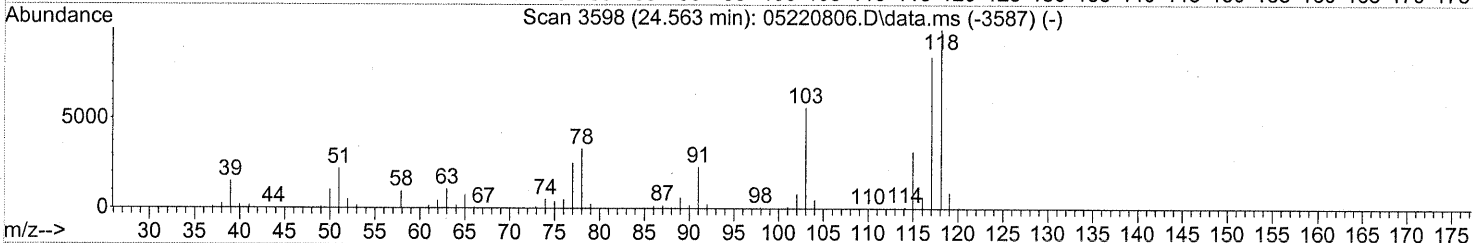
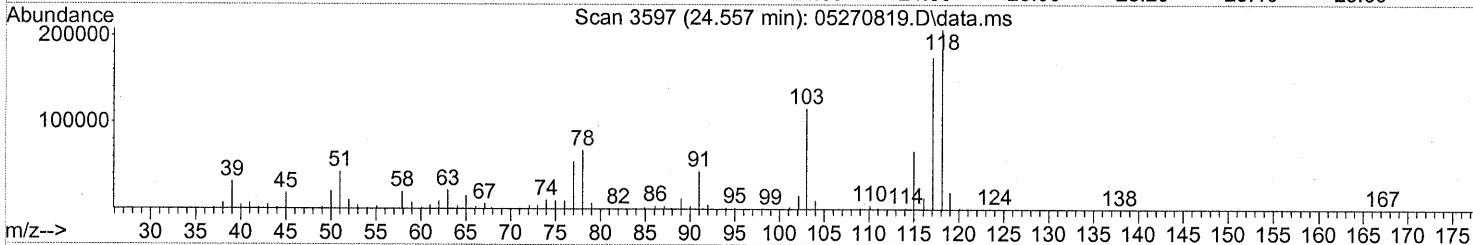
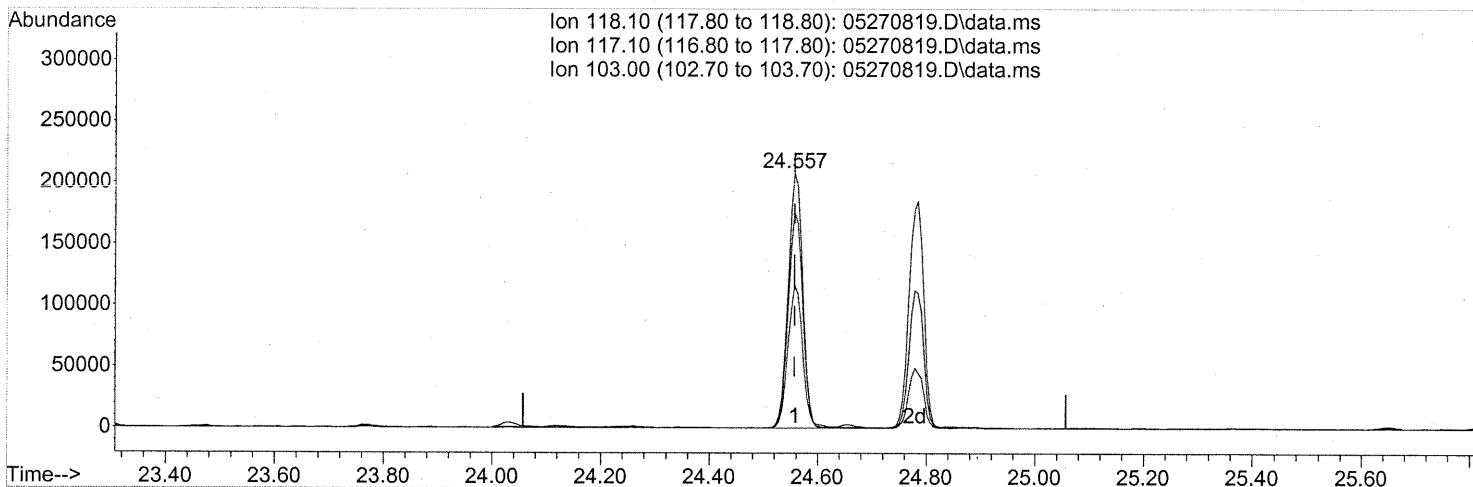
(74) Cumene (T)
 23.459min (-0.006) 0.08ng
 response 11855

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	26.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(80) alpha-Methylstyrene (T)

24.557min (-0.000) 5.03ng

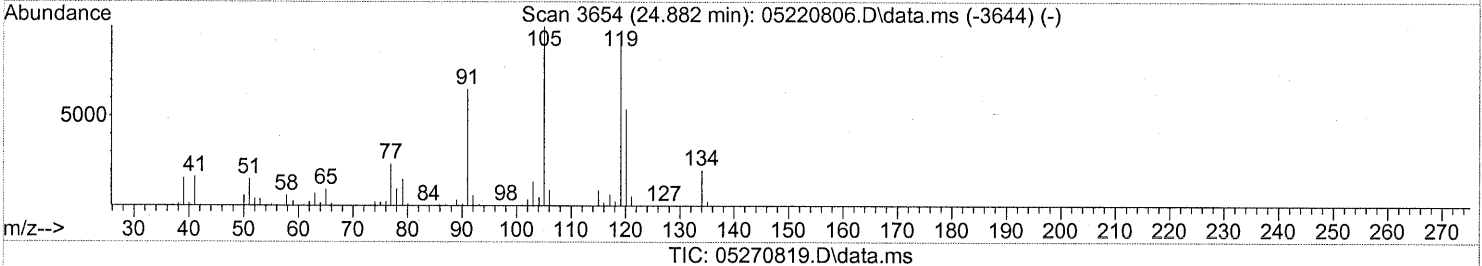
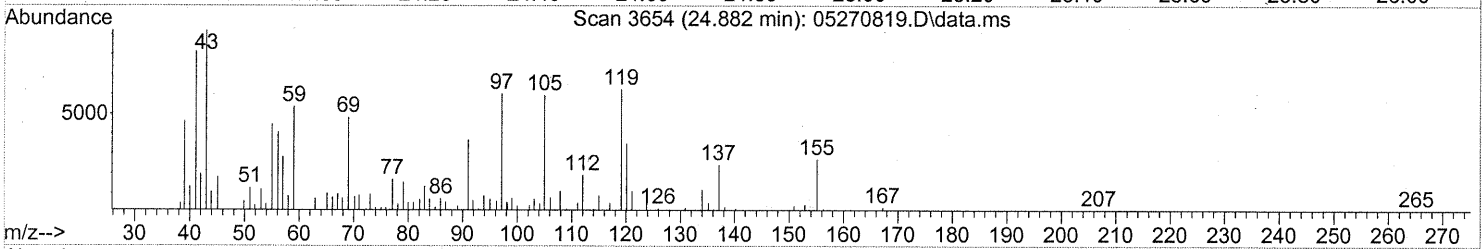
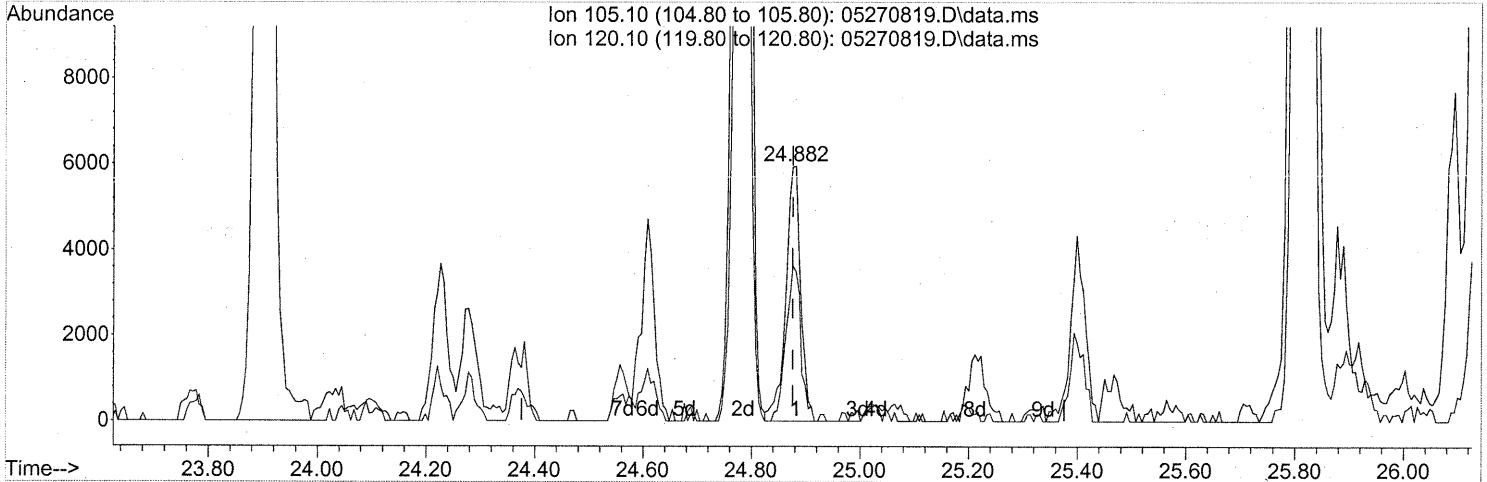
response 380395

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	85.18
103.00	55.30	57.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.882min (+0.006) 0.08ng

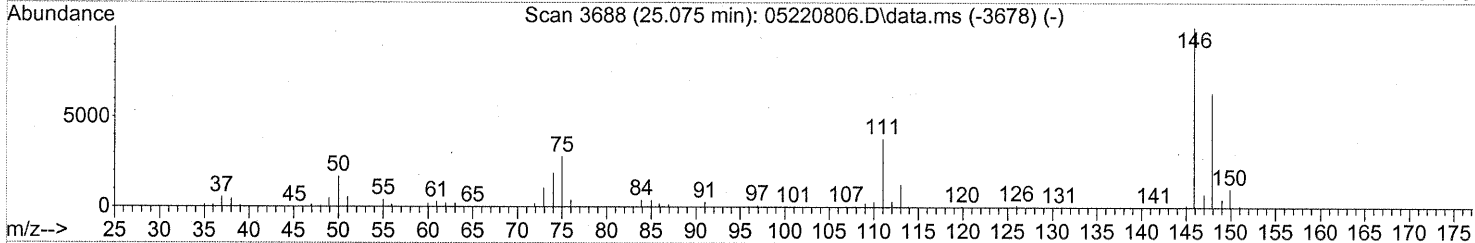
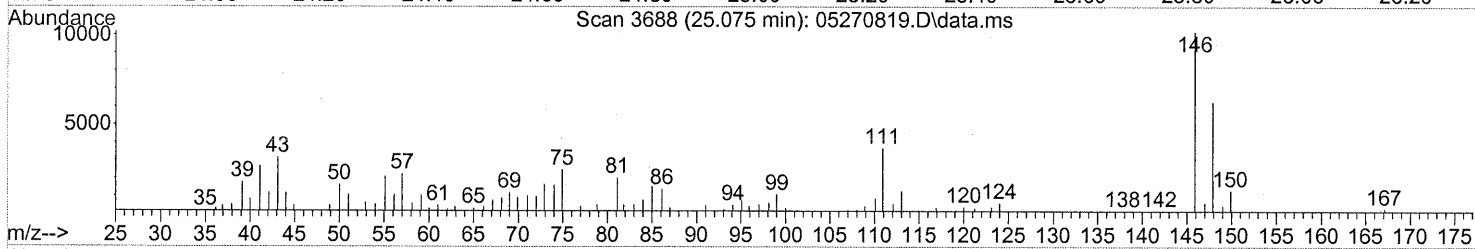
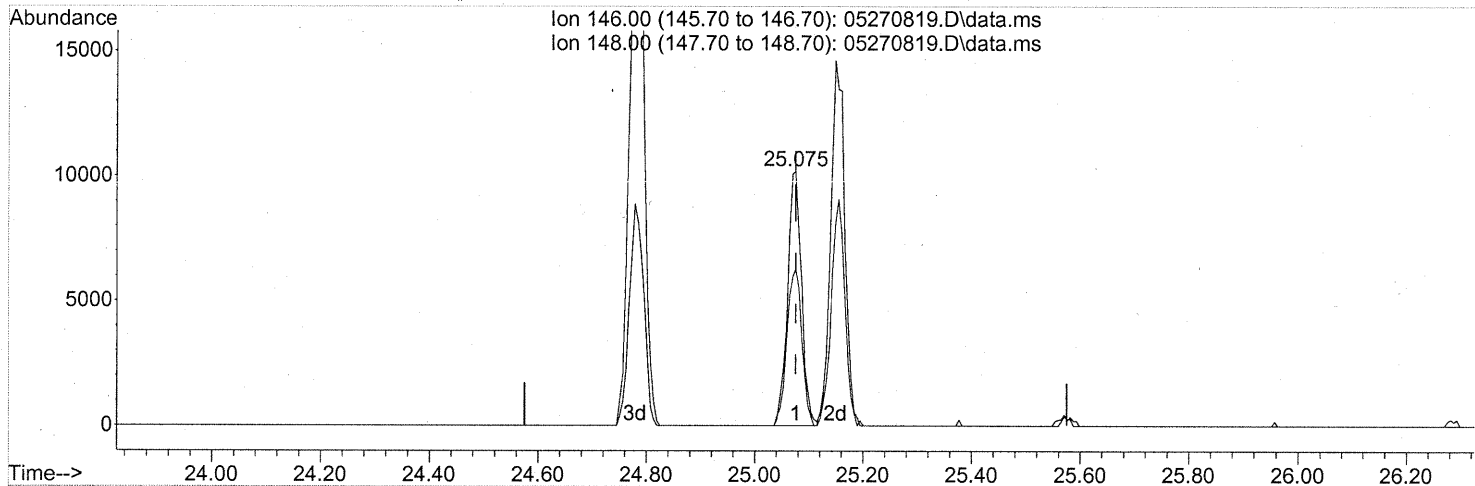
response 11284

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	61.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.075min (-0.000) 0.20ng

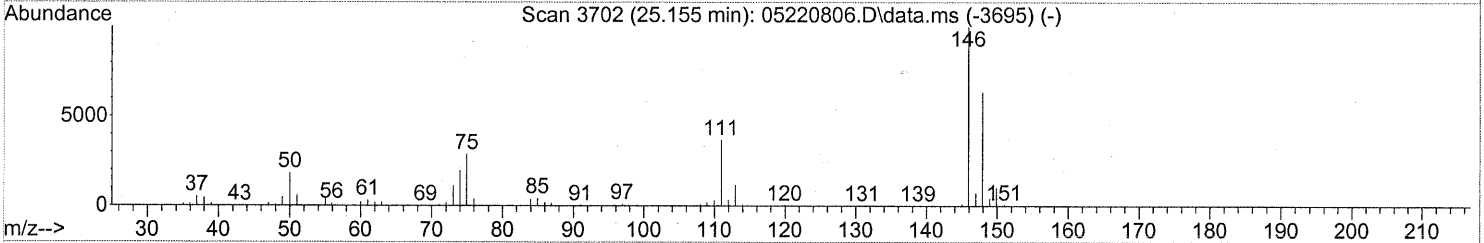
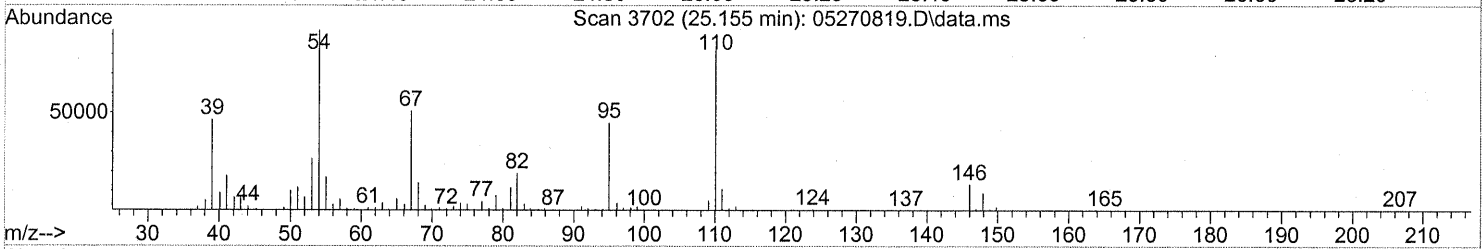
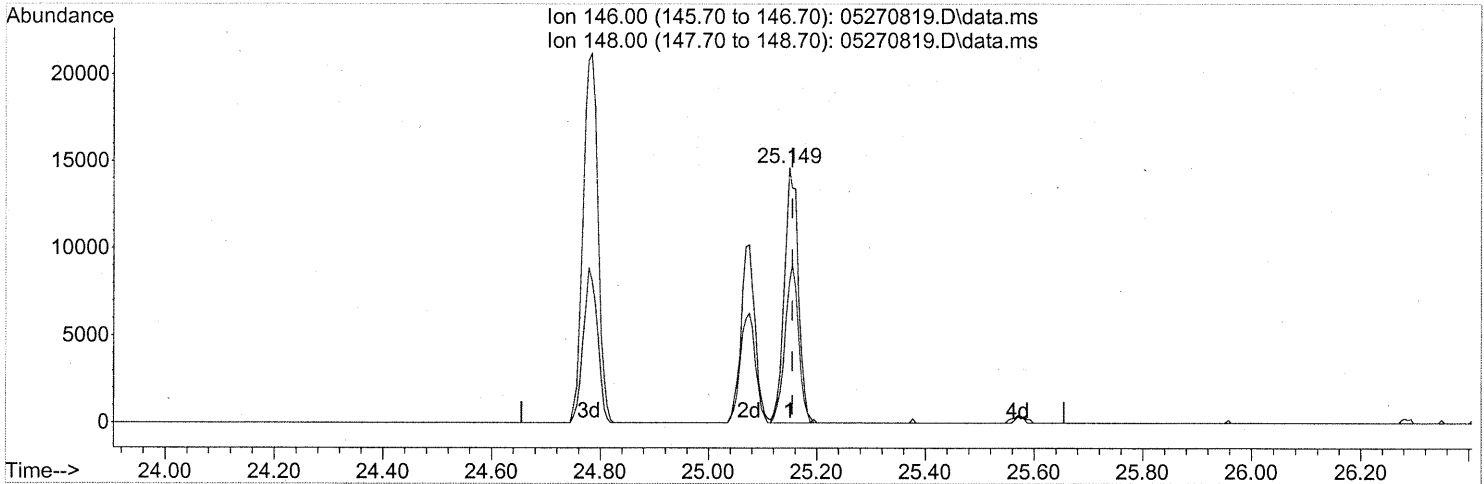
response 18224

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	66.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 0.31ng

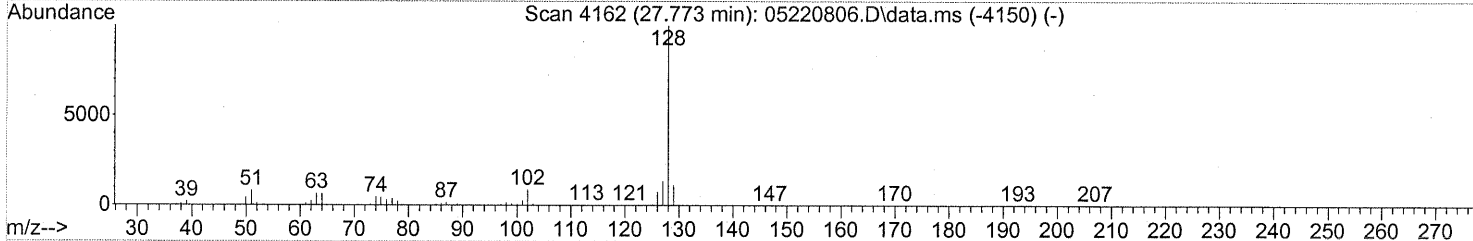
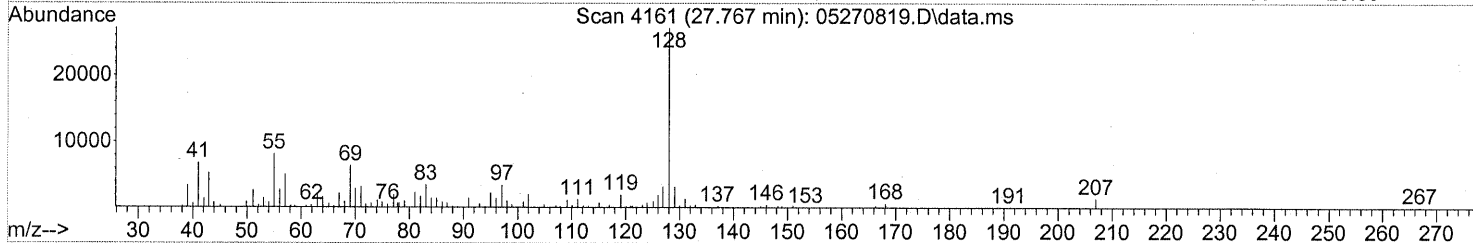
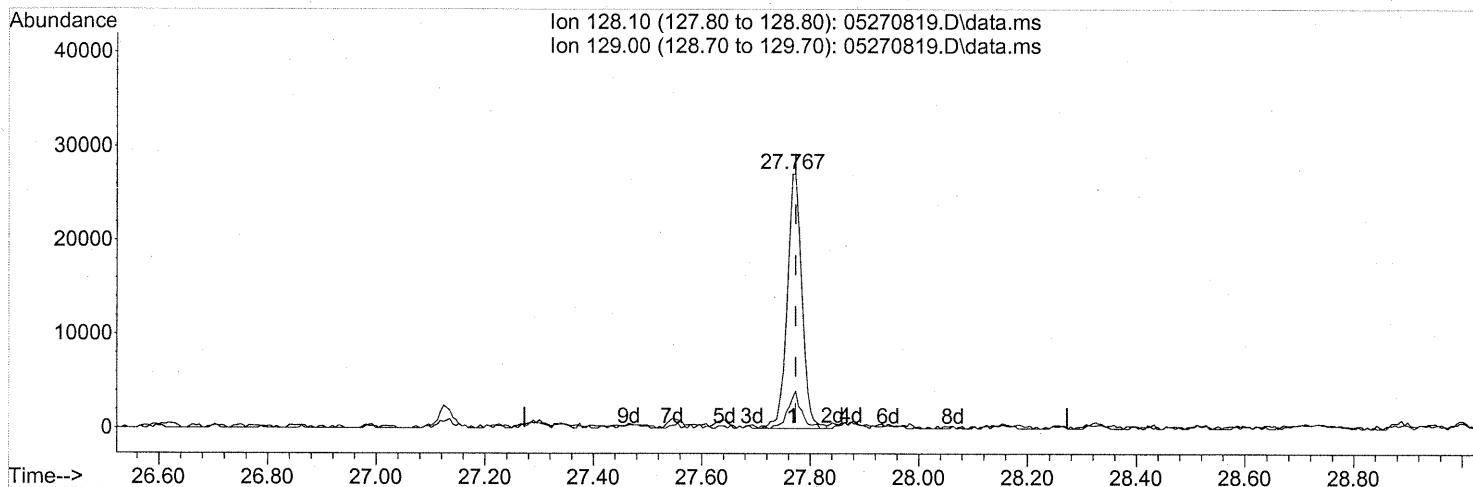
response 26325

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	60.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



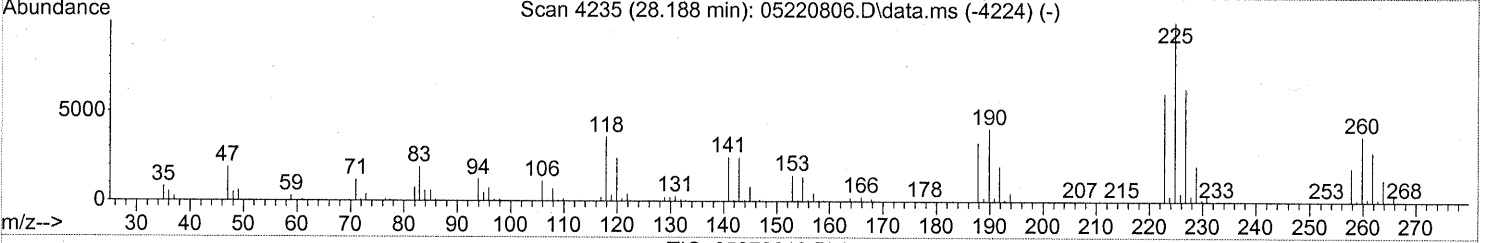
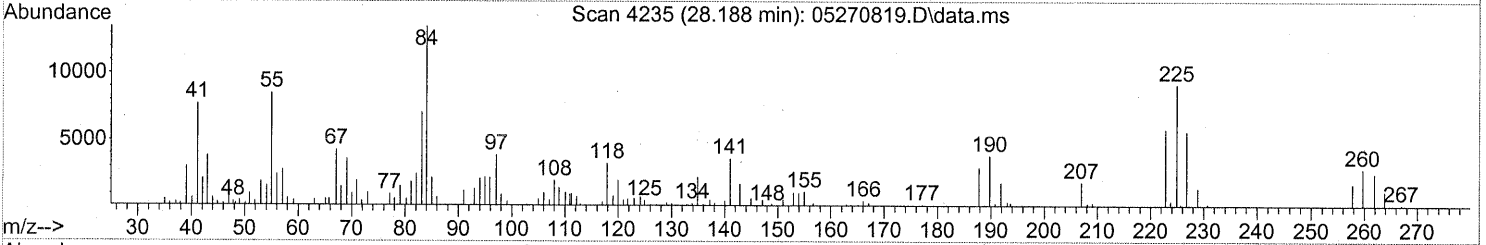
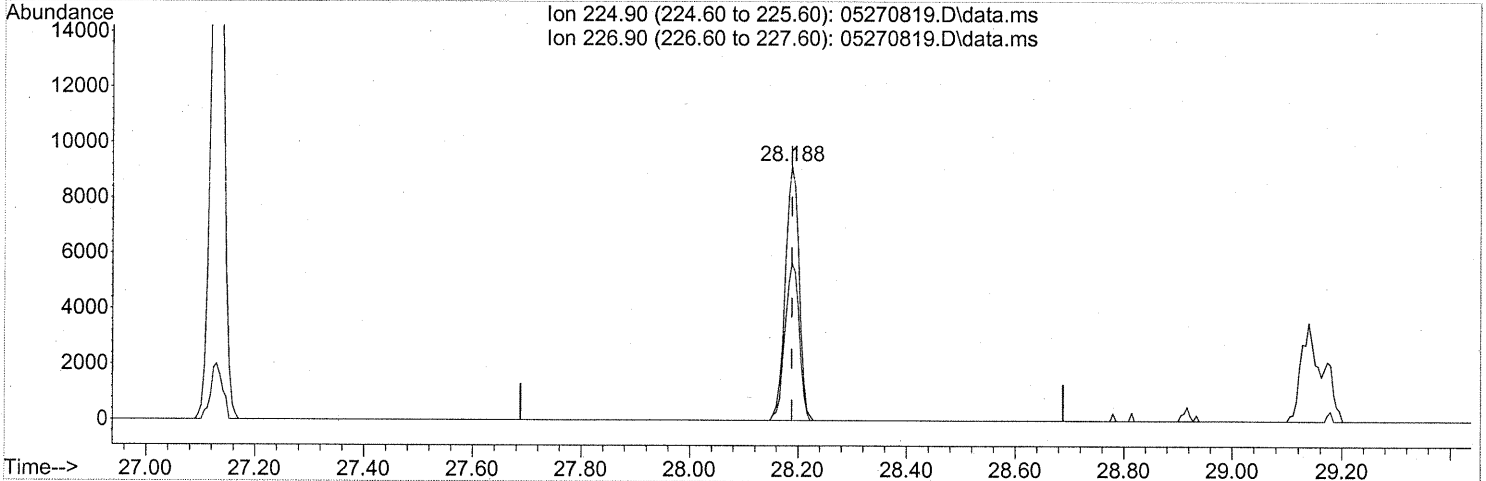
(95) Naphthalene (T)
 27.767min (-0.006) 0.27ng
 response 51099

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:13:27 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

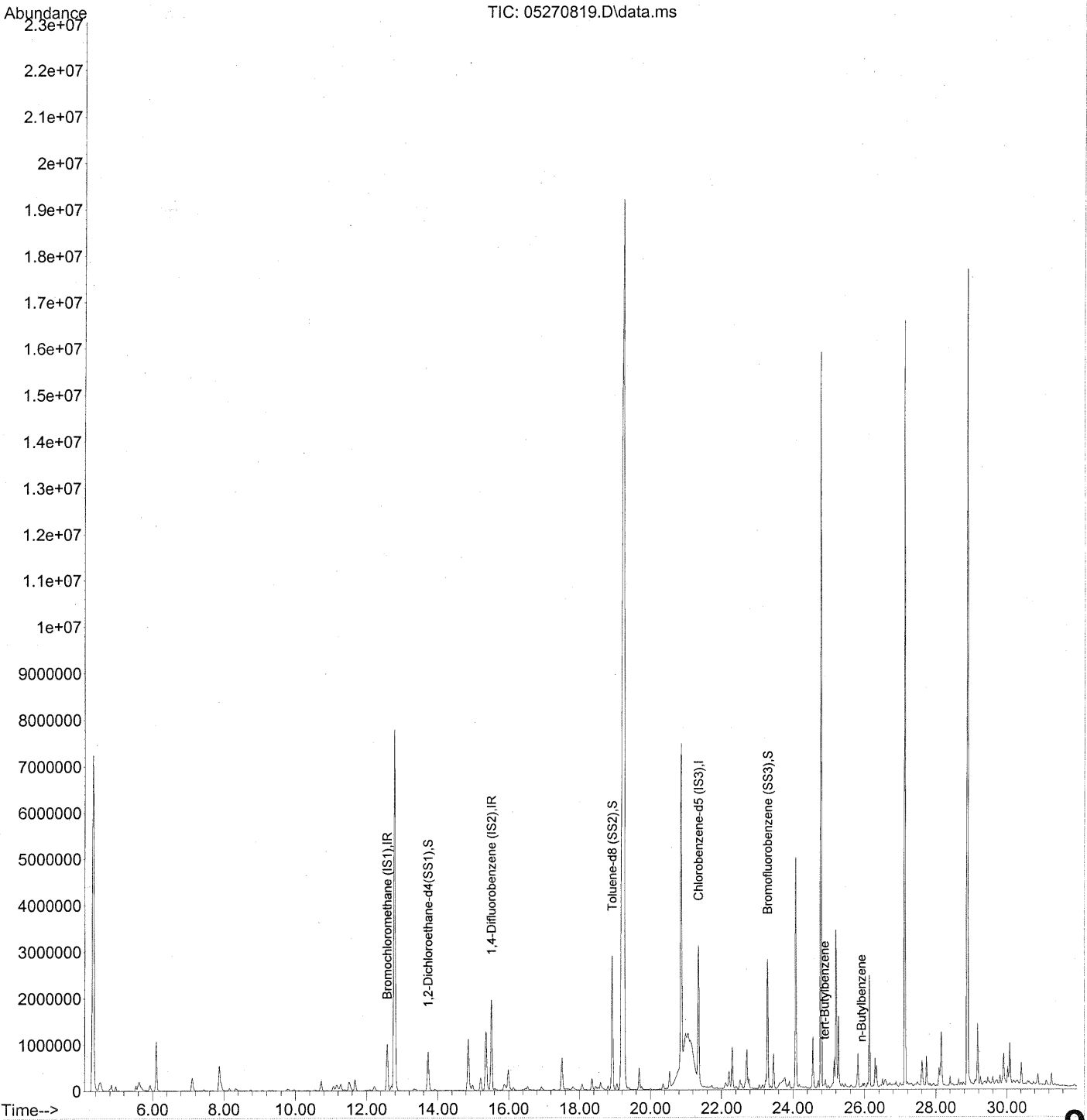
28.188min (-0.000) 0.40ng

response 16271

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	63.64
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 10:24 pm
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 13:12:59 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 10:24 pm
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 13:12:59 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

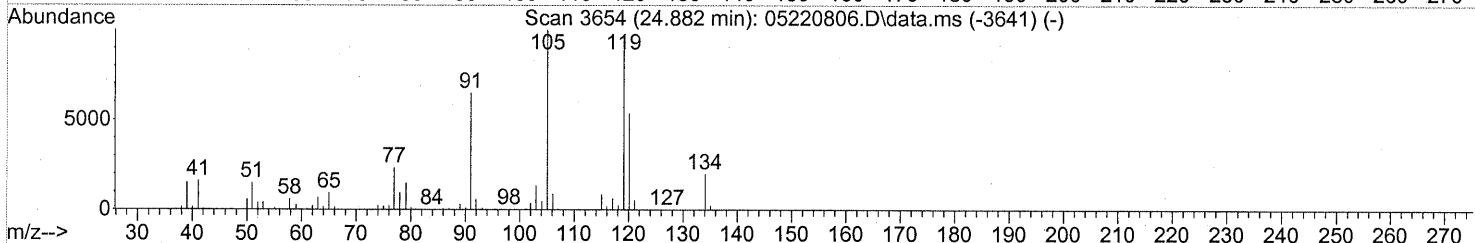
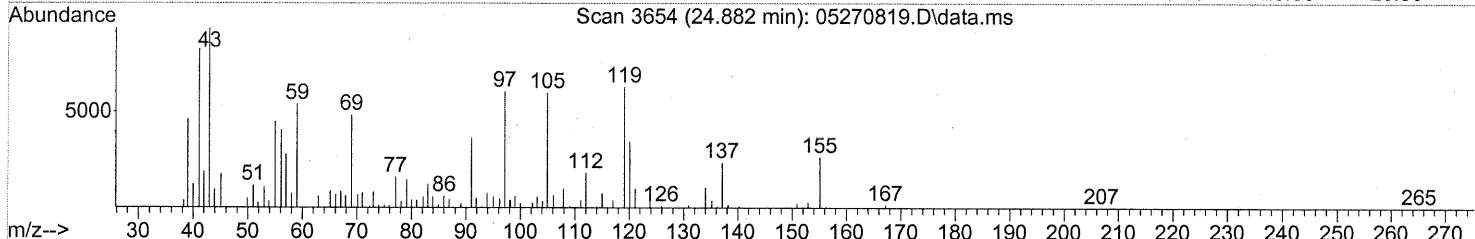
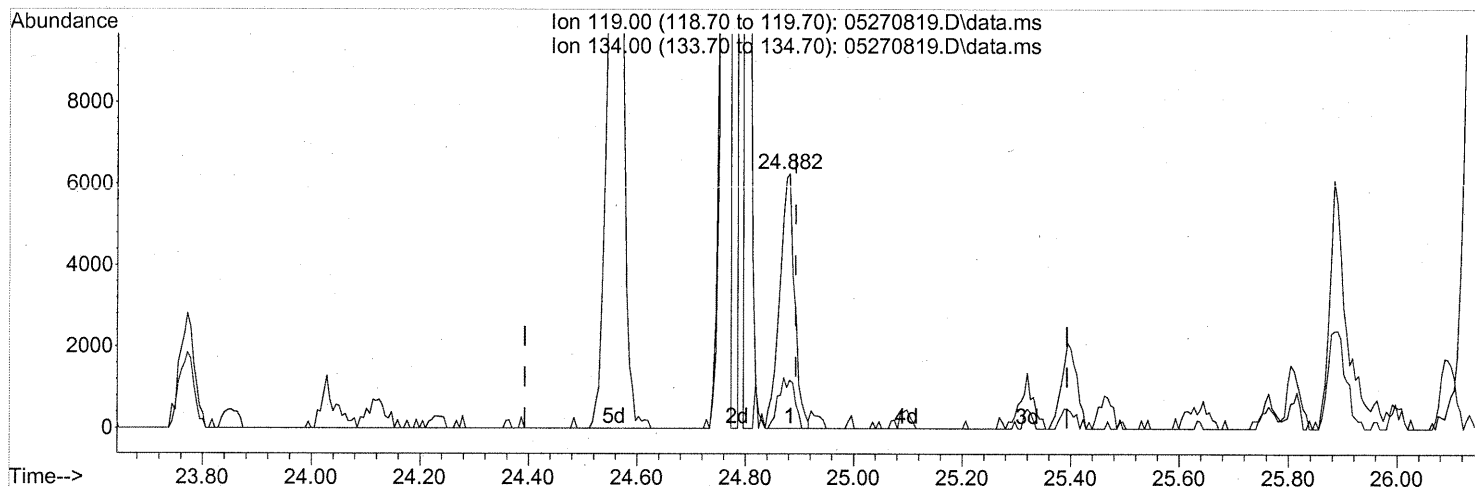
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	548178	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2341654	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1158324	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	854422	22.495	ng	-0.02
Spiked Amount	25.000		Recovery	=	89.96%	
5) Toluene-d8 (SS2)	18.93	98	2456031	23.609	ng	-0.01
Spiked Amount	25.000		Recovery	=	94.44%	
6) Bromofluorobenzene (SS3)	23.29	174	1063067	25.130	ng	0.00
Spiked Amount	25.000		Recovery	=	100.52%	
Target Compounds						
7) tert-Butylbenzene	24.88	119	11977	0.088	ng	98
8) n-Butylbenzene	25.91	91	13324	0.089	ng	# 52

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 13:12:59 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

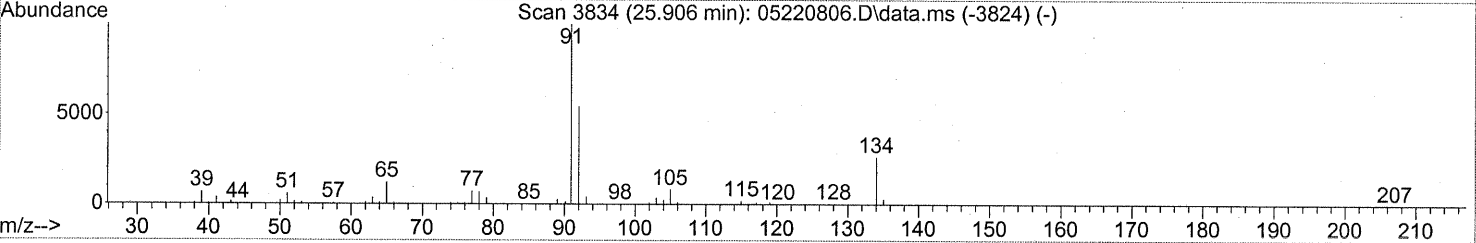
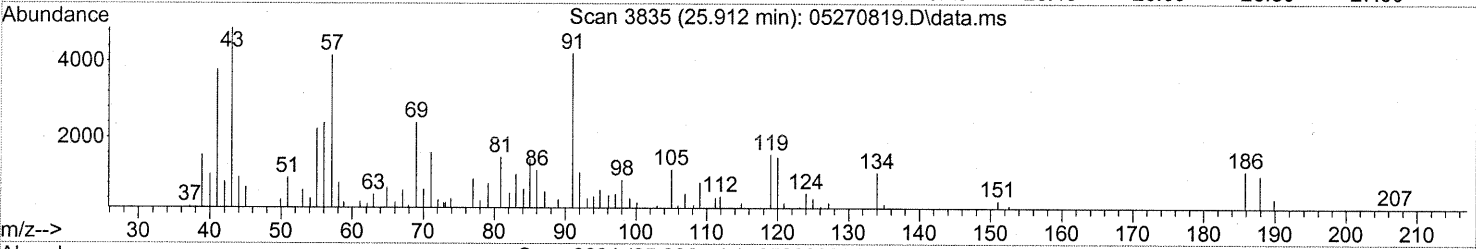
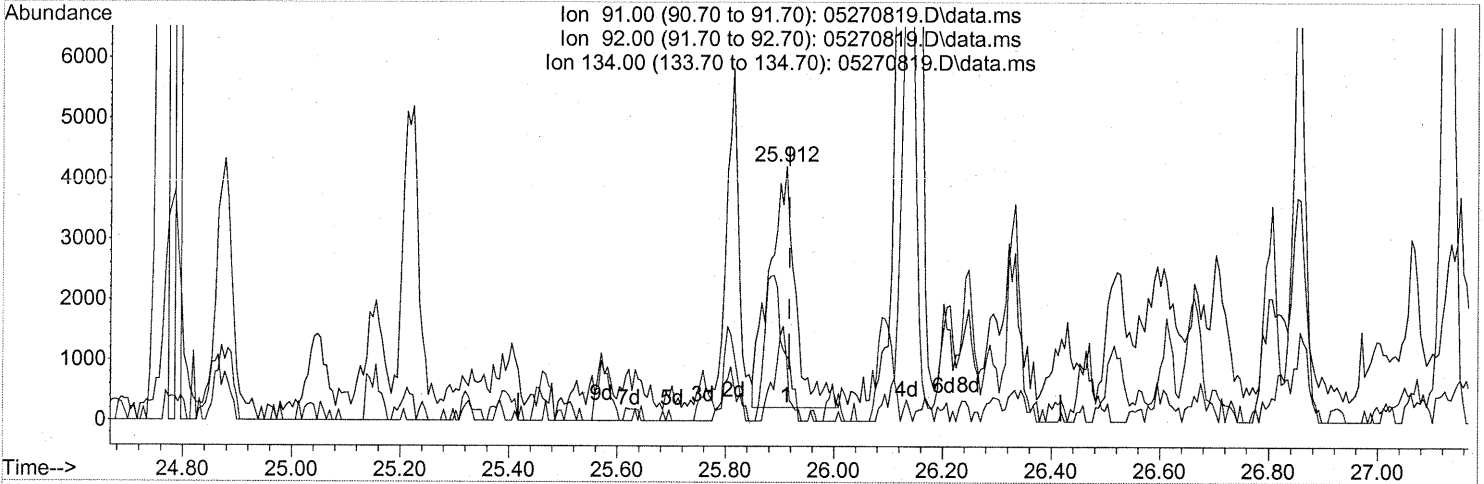
(7) tert-Butylbenzene
 24.882min (-0.011) 0.09ng
 response 11977

Ion	Exp%	Act%
119.00	100	100
134.00	22.10	21.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 13:12:59 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



(8) n-Butylbenzene

25.912min (-0.006) 0.09ng

response 13324

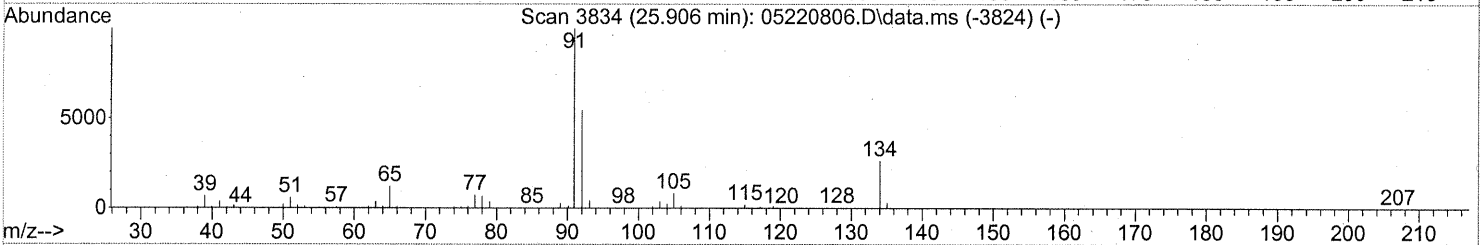
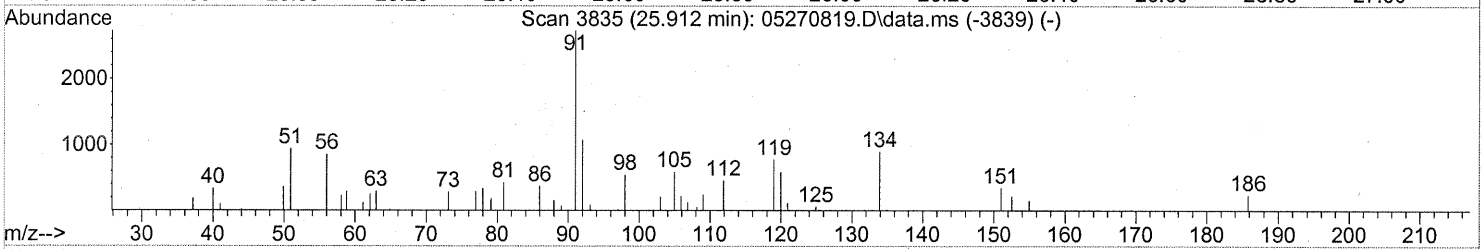
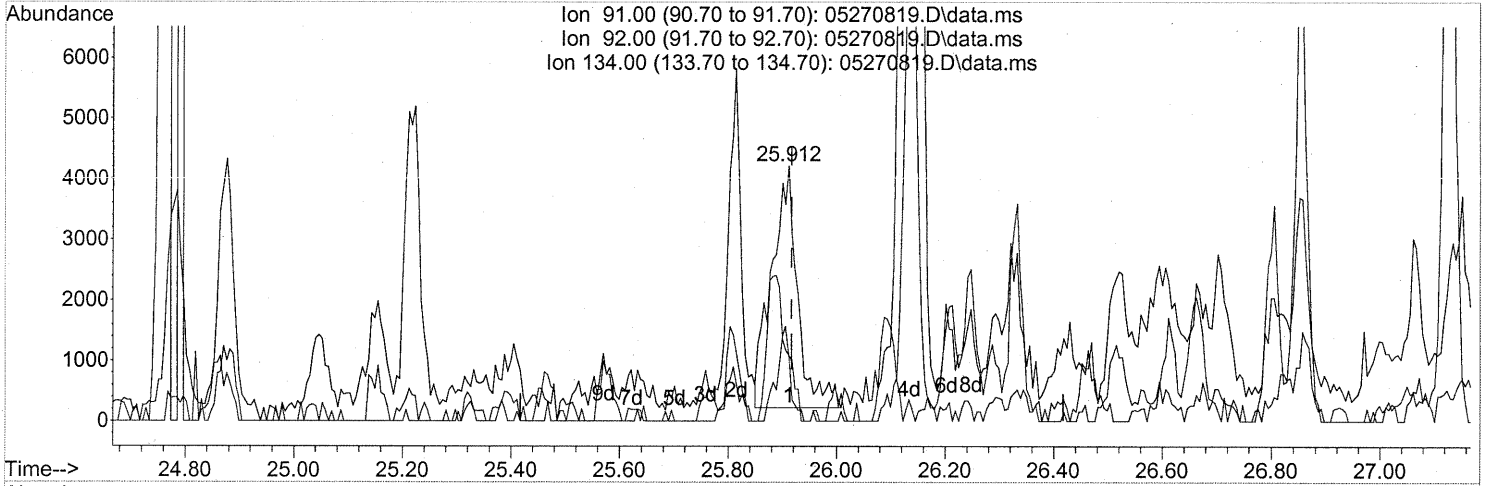
Ion	Exp%	Act%
91.00	100	100
92.00	55.70	23.02#
134.00	28.80	0.00#
0.00	0.00	0.00

before

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270819.D
 Acq On : 27 May 2008 22:24
 Operator : WA
 Sample : P0801483-022 (1000ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 13:12:59 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



TIC: 05270819.D\data.ms

(8) n-Butylbenzene
 25.912min (-0.006) 0.09ng
 response 13324

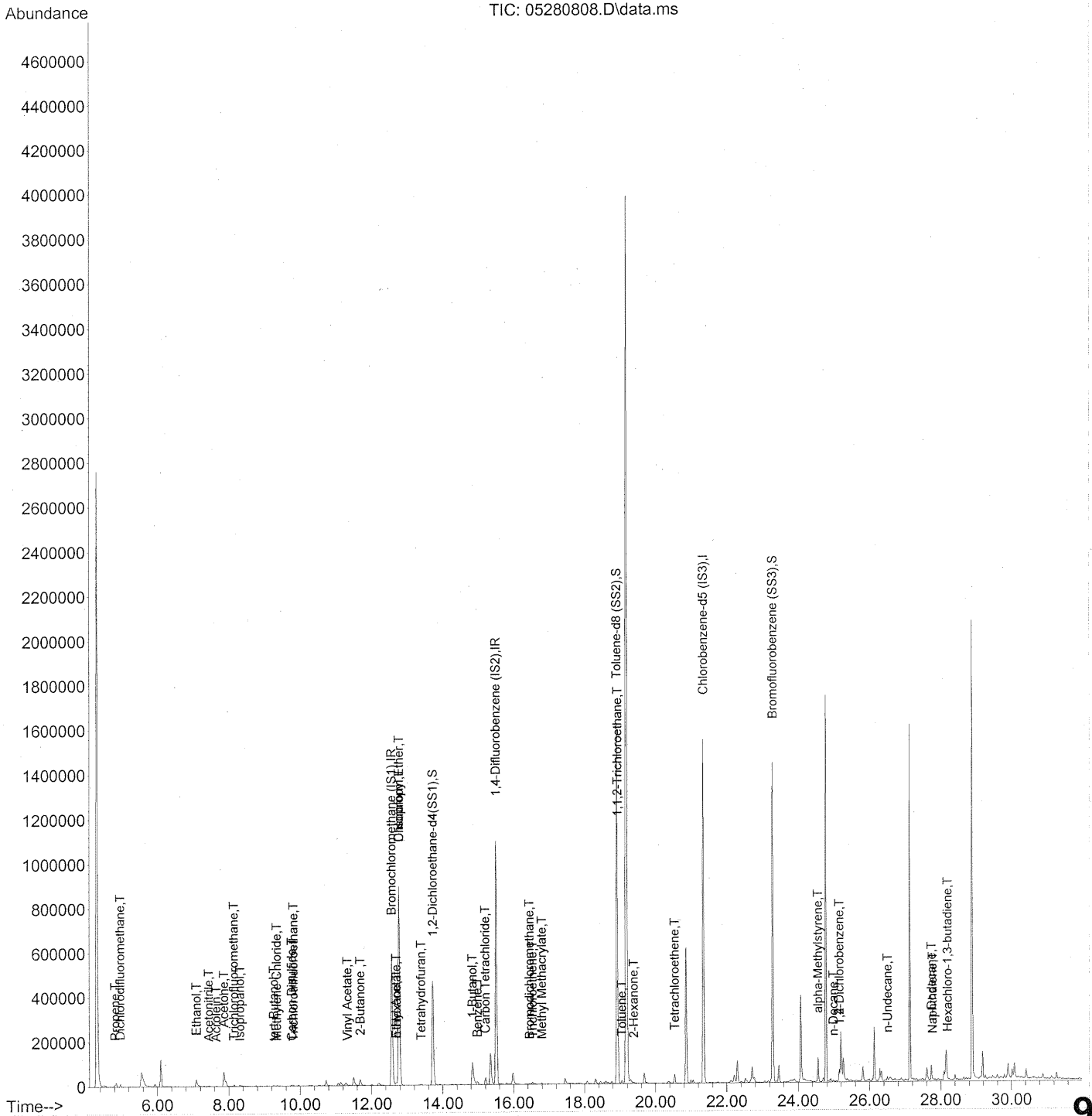
Ion	Exp%	Act%
91.00	100	100
92.00	55.70	23.02#
134.00	28.80	0.00#
0.00	0.00	0.00

after substr.

WA 6/2/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280808.D
 Acq On : 28 May 2008 14:29
 Operator : WA
 Sample : P0801483-022 Dil (200ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 15:04:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280808.D
 Acq On : 28 May 2008 14:29
 Operator : WA
 Sample : P0801483-022 Dil (200ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 15:04:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	296307	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.51	114	1285386	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	598563	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	489388	23.837	ng	0.00	
Spiked Amount							Recovery = 95.36%
57) Toluene-d8 (SS2)	18.92	98	1336078	24.854	ng	0.00	
Spiked Amount							Recovery = 99.40%
73) Bromofluorobenzene (SS3)	23.29	174	547064	25.026	ng	0.00	
Spiked Amount							Recovery = 100.12%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue	#
2) Propene	4.82	42	5004	0.214	ng		1
3) Dichlorodifluoromethane	4.97	85	12147	0.282	ng		95
4) Chloromethane	5.30	50	299	N.D.			
5) Freon 114	5.54	135	67	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.01	54	280	N.D.			
8) Bromomethane	0.00	94	0	N.D.			
9) Chloroethane	6.82	64	57	N.D.			
10) Ethanol	7.10	45	59854	3.842	ng		91
11) Acetonitrile	7.44	41	6408	0.142	ng		# 26
12) Acrolein	7.66	56	2598	0.233	ng		99
13) Acetone	7.87	58	40602	2.545	ng		# 84
14) Trichlorofluoromethane	8.14	101	6633	0.179	ng		97
15) Isopropanol	8.32	45	11276	0.222	ng		98
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	9.27	59	6508	0.150	ng		# 75
19) Methylene Chloride	9.35	84	1216	0.068	ng		94
20) Allyl Chloride	9.44	41	215	N.D.			
21) Trichlorotrifluoroethane	9.81	151	1456	0.087	ng		90
22) Carbon Disulfide	9.77	76	10126	0.150	ng		96
23) trans-1,2-Dichloroethene	10.73	61	172	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	11.22	73	1982	N.D.			
26) Vinyl Acetate	11.33	86	683	0.232	ng		# 88
27) 2-Butanone	11.68	72	11753	1.010	ng		# 90
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	12.78	87	99497	6.975	ng		# 1
30) Ethyl Acetate	12.70	61	1329	0.211	ng		# 71
31) n-Hexane	12.70	57	2854	0.090	ng		# 71

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280808.D
 Acq On : 28 May 2008 14:29
 Operator : WA
 Sample : P0801483-022 Dil (200ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 15:04:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	964685	35.703	ng	99
34) Tetrahydrofuran	13.39	72	829	0.074	ng #	66
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.73	62	51	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.84	56	99496	5.631	ng	87
41) Benzene	14.97	78	14058	0.209	ng	99
42) Carbon Tetrachloride	15.20	117	26134	1.008	ng	99
43) Cyclohexane	15.40	84	1022	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.45	83	1862	0.082	ng	97
47) Trichloroethene	16.53	130	4219	0.204	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.61	57	1252	N.D.		
50) Methyl Methacrylate	16.80	100	469	0.070	ng #	50
51) n-Heptane	16.97	71	360	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.79	58	214	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	116271	6.991	ng #	8
58) Toluene	19.05	91	12985	0.178	ng	98
59) 2-Hexanone	19.38	43	2703	0.054	ng #	32
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.19	43	991	N.D.		
63) n-Octane	20.35	57	146	N.D.		
64) Tetrachloroethene	20.54	166	13483	0.624	ng	91
65) Chlorobenzene	21.40	112	1722	N.D.		
66) Ethylbenzene	21.89	91	1038	N.D.		
67) m- & p-Xylene	22.10	91	2021	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.57	104	520	N.D.		
70) o-Xylene	22.71	91	1074	N.D.		
71) n-Nonane	22.99	43	979	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.73	83	58	N.D.		
74) Cumene	23.46	105	1061	N.D.		
75) alpha-Pinene	23.97	93	276	N.D.		
76) n-Propylbenzene	24.10	91	497	N.D.		
77) 3-Ethyltoluene	24.23	105	726	N.D.		
78) 4-Ethyltoluene	24.28	105	592	N.D.		
79) 1,3,5-Trimethylbenzene	24.35	105	124	N.D.		

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280808.D
 Acq On : 28 May 2008 14:29
 Operator : WA
 Sample : P0801483-022 Dil (200ml)
 Misc : ENSR SG12B-05 (-2.8, 3.6)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 15:04:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

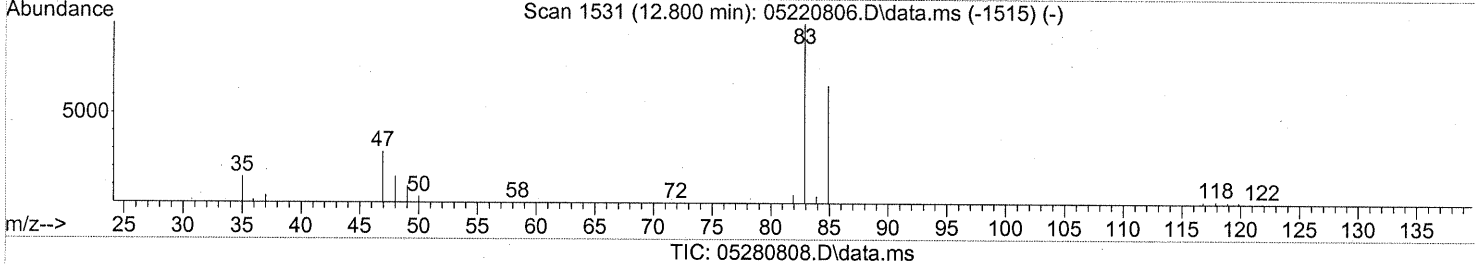
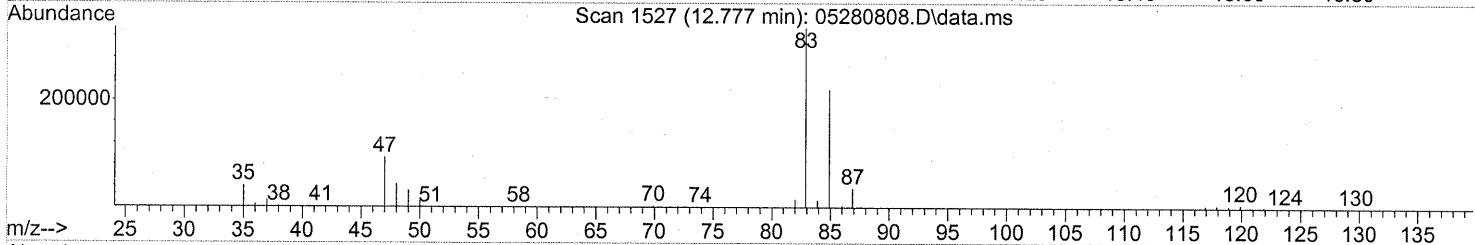
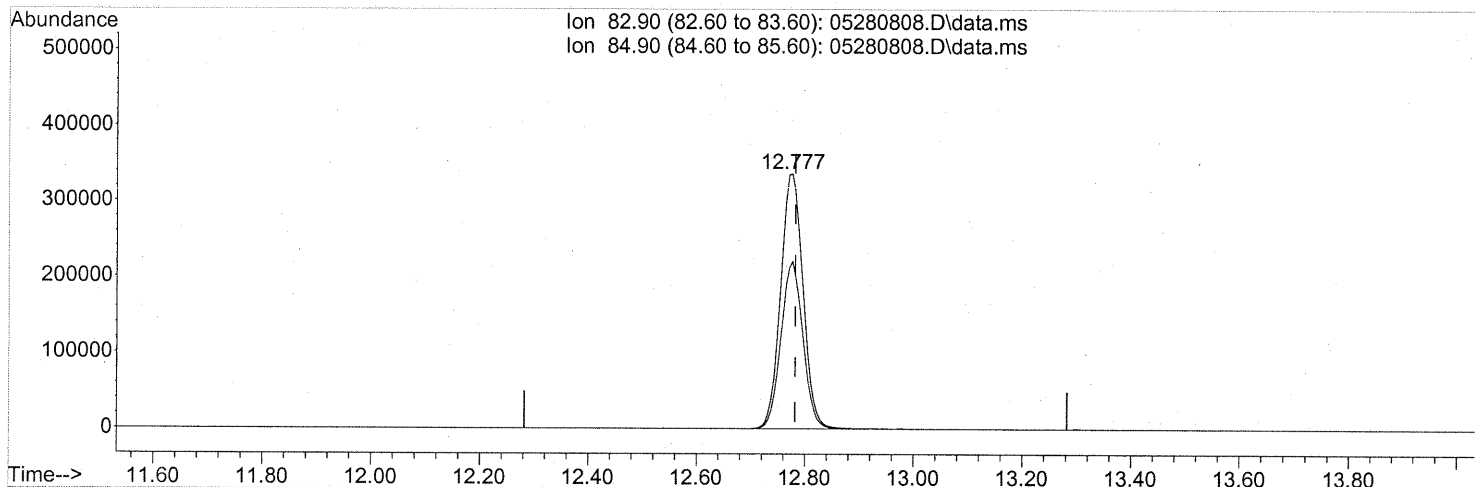
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	36596	0.936	ng	98
81) 2-Ethyltoluene	24.60	105	746	N.D.		
82) 1,2,4-Trimethylbenzene	24.87	105	993	N.D.		
83) n-Decane	24.98	57	2997	0.074	ng	93
84) Benzyl Chloride	25.04	91	64	N.D.		
85) 1,3-Dichlorobenzene	25.07	146	1755	N.D.		
86) 1,4-Dichlorobenzene	25.16	146	2796	0.063	ng	99
87) sec-Butylbenzene	25.21	105	114	N.D.		
88) p-Isopropyltoluene	25.40	119	306	N.D.		
89) 1,2,3-Trimethylbenzene	25.40	105	770	N.D.		
90) 1,2-Dichlorobenzene	25.16	146	2796	0.064	ng	98
91) d-Limonene	25.57	68	745	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.50	57	7303	0.172	ng	# 67
94) 1,2,4-Trichlorobenzene	27.62	180	126	N.D.		
95) Naphthalene	27.77	128	5549	0.057	ng	99
96) n-Dodecane	27.74	57	21484	0.510	ng	81
97) Hexachloro-1,3-butadiene	28.19	225	1852	0.087	ng	82

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 14:29
Operator : WA
Sample : P0801483-022 Dil (200ml)
Misc : ENSR SG12B-05 (-2.8, 3.6)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 15:04:21 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(32) Chloroform (T)

12.777min (-0.006) 35.70ng

response 964685

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.23
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG08B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-023

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00578

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.75	0.075	0.45	0.15	0.015	
74-87-3	Chloromethane	0.083	0.15	0.075	0.040	0.072	0.036	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.10	0.75	0.075	0.015	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.15	0.075	ND	0.058	0.029	
74-83-9	Bromomethane	ND	0.15	0.075	ND	0.038	0.019	
75-00-3	Chloroethane	0.39	0.15	0.075	0.15	0.056	0.028	
64-17-5	Ethanol	8.7	7.5	0.075	4.6	4.0	0.040	B
67-64-1	Acetone	12	7.5	0.11	4.9	3.1	0.046	B
75-69-4	Trichlorofluoromethane	3.6	0.15	0.075	0.64	0.027	0.013	
107-13-1	Acrylonitrile	ND	0.75	0.10	ND	0.34	0.048	
75-35-4	1,1-Dichloroethene	ND	0.15	0.075	ND	0.038	0.019	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.60	0.75	0.11	0.20	0.25	0.036	J
75-09-2	Methylene Chloride	0.55	0.75	0.075	0.16	0.21	0.021	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.075	ND	0.048	0.024	
76-13-1	Trichlorotrifluoroethane	0.50	0.15	0.083	0.065	0.019	0.011	
75-15-0	Carbon Disulfide	9.6	0.75	0.18	3.1	0.24	0.057	B
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.075	ND	0.038	0.019	
75-34-3	1,1-Dichloroethane	0.079	0.15	0.075	0.020	0.037	0.018	J
1634-04-4	Methyl tert-Butyl Ether	3.7	0.15	0.075	1.0	0.041	0.021	
108-05-4	Vinyl Acetate	2.7	7.5	0.24	0.76	2.1	0.068	J, B
78-93-3	2-Butanone (MEK)	5.7	0.75	0.075	1.9	0.25	0.025	B
156-59-2	cis-1,2-Dichloroethene	0.13	0.15	0.075	0.033	0.038	0.019	J
108-20-3	Diisopropyl Ether	ND	0.75	0.088	ND	0.18	0.021	
67-66-3	Chloroform	530	0.15	0.088	110	0.031	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG08B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-023

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00578

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/27 - 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.75	0.076	ND	0.18	0.018	
107-06-2	1,2-Dichloroethane	ND	0.15	0.075	ND	0.037	0.018	
71-55-6	1,1,1-Trichloroethane	0.10	0.15	0.075	0.019	0.027	0.014	J
71-43-2	Benzene	2.4	0.15	0.075	0.75	0.047	0.023	
56-23-5	Carbon Tetrachloride	16	0.15	0.075	2.6	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.75	0.075	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.075	ND	0.032	0.016	
75-27-4	Bromodichloromethane	0.62	0.15	0.075	0.092	0.022	0.011	
79-01-6	Trichloroethene	1.3	0.15	0.075	0.23	0.028	0.014	
123-91-1	1,4-Dioxane	ND	0.75	0.091	ND	0.21	0.025	
80-62-6	Methyl Methacrylate	ND	0.75	0.11	ND	0.18	0.027	
142-82-5	n-Heptane	0.35	0.75	0.095	0.086	0.18	0.023	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.077	ND	0.16	0.017	
108-10-1	4-Methyl-2-pentanone	0.23	0.75	0.083	0.055	0.18	0.020	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	0.094	ND	0.16	0.021	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.075	ND	0.027	0.014	
108-88-3	Toluene	1.6	0.75	0.075	0.43	0.20	0.020	
591-78-6	2-Hexanone	0.35	0.75	0.11	0.087	0.18	0.028	J
124-48-1	Dibromochloromethane	ND	0.15	0.10	ND	0.017	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.080	ND	0.019	0.010	
111-65-9	n-Octane	0.25	0.75	0.075	0.054	0.16	0.016	J
127-18-4	Tetrachloroethene	8.1	0.15	0.075	1.2	0.022	0.011	
108-90-7	Chlorobenzene	0.085	0.15	0.076	0.018	0.032	0.017	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.